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-B
SHEET 1 OF 3
PAMPHLET ACCOMPANIES MAP

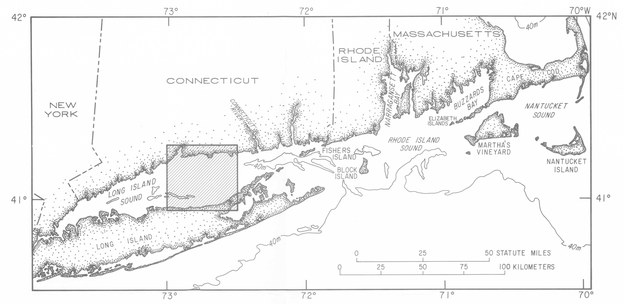


Figure 1.—Index map showing study area.

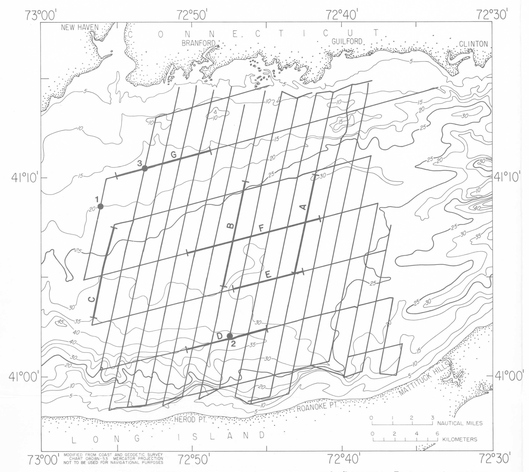


Figure 2.—Sea-floor topography and location of tracklines and vibracores. Bathymetric contour interval 5 meters. Heavy sections of tracklines with letter labels correspond to seismic profiles in figure 3. Numbered dots are vibracore sites (see fig. 4).

KEY TO ACOUSTIC UNITS AND MAJOR UNCONFORMITIES

Qhm—Postglacial marine deposits

um—Marine unconformity

Qlf—Upper lacustrine and fluvial deposits

Qgl—Lower glacial lake deposits

Qt—Glacial deposits, mostly till

Qtm—End-moraine deposits

Qd—Glacial drift

uf_2—Late Tertiary-early Pleistocene fluvial unconformity

Ku—Coastal-plain strata

uf_3—Pre-Cretaceous fluvial unconformity

Pz—Bedrock

Locations of profiles shown on figure 2.
Horizontal scales are approximate.
Vertical scales are based on a sound velocity of 1,500 m/s.
Reflectors are dashed where extrapolated.
Vertical exaggeration is abbreviated vert. exag.

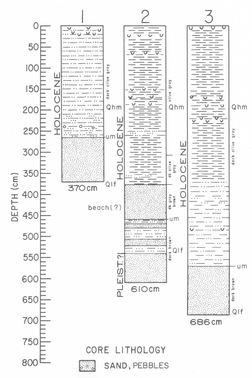
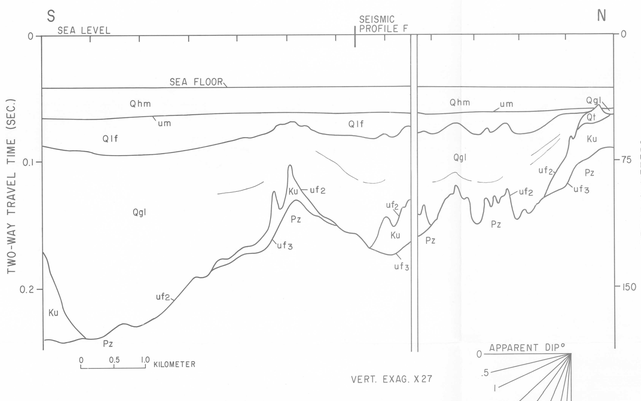
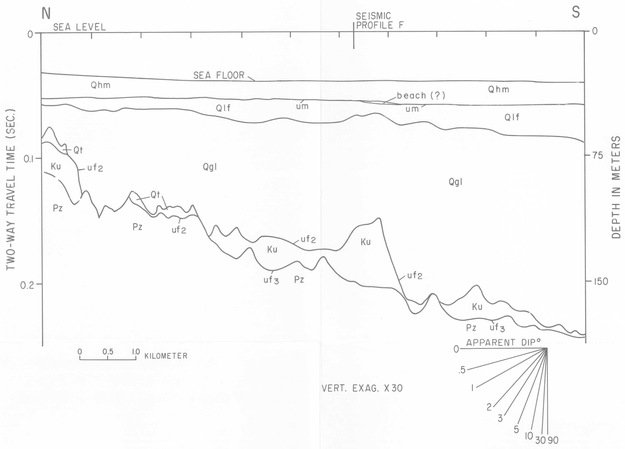
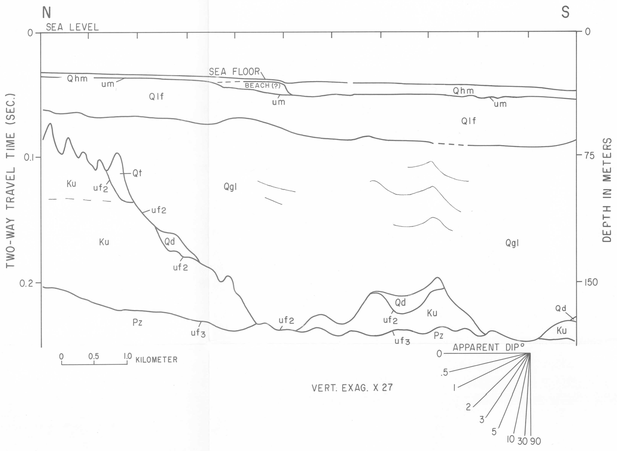
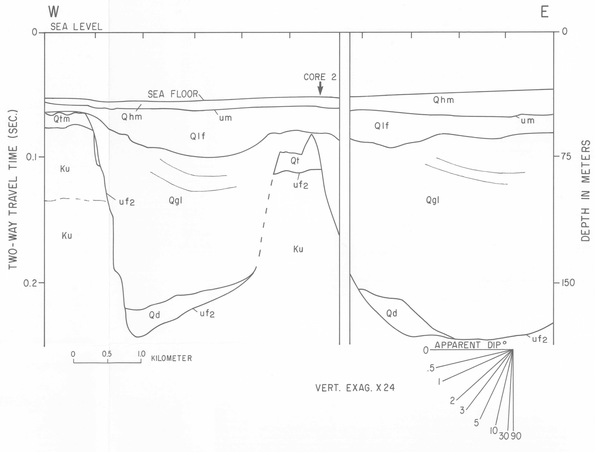


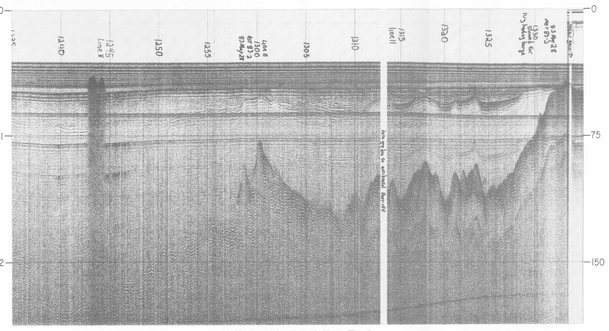
Figure 4.—Lithologic and stratigraphic columns of vibracores. Locations shown on figure 2. See text for discussion of units and ages. Munsell colors (Munsell Color Company, 1975) are shown.



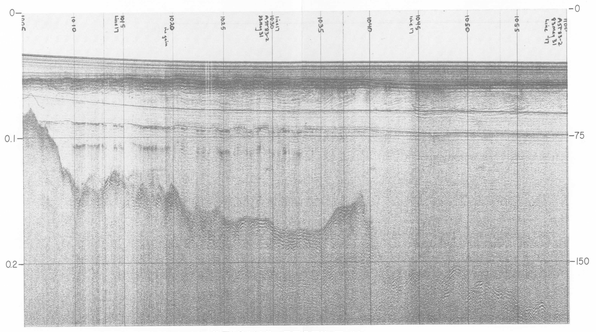




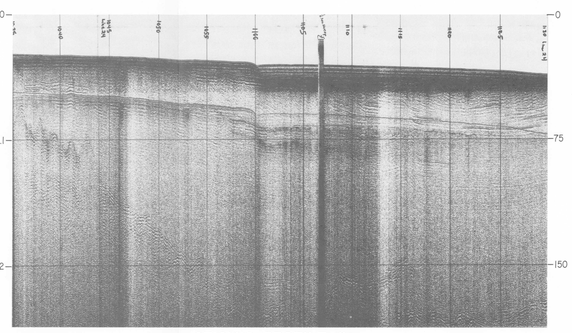




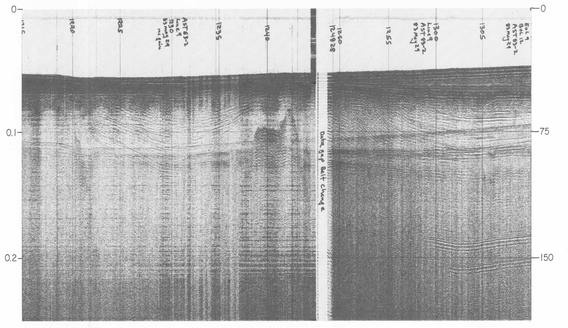
SEISMIC PROFILE A



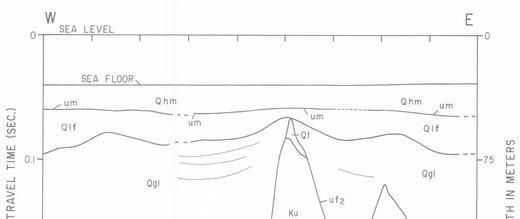
SEISMIC PROFILE B

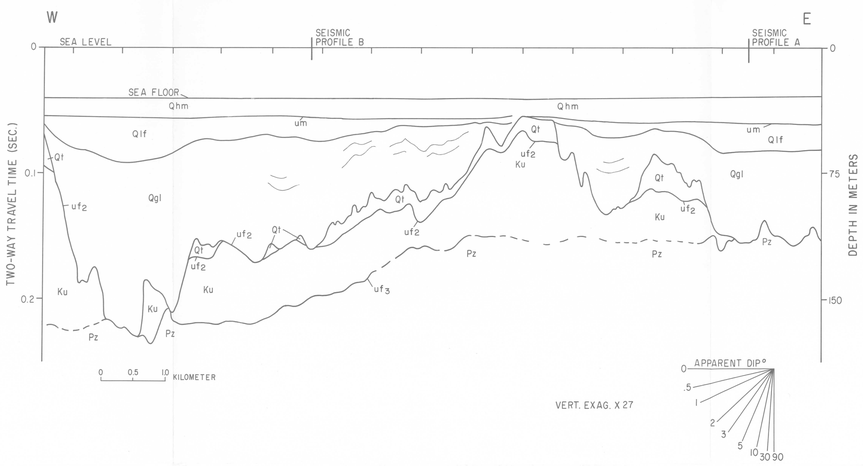


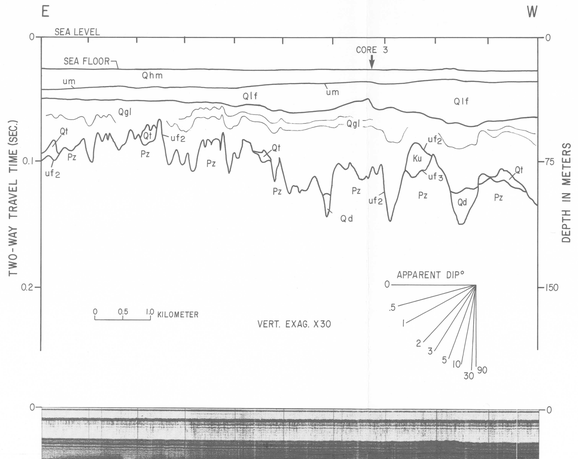
SEISMIC PROFILE C

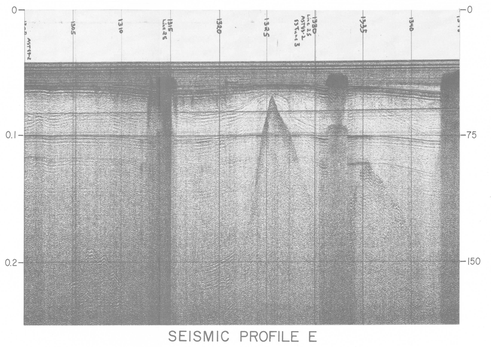


SEISMIC PROFILE D

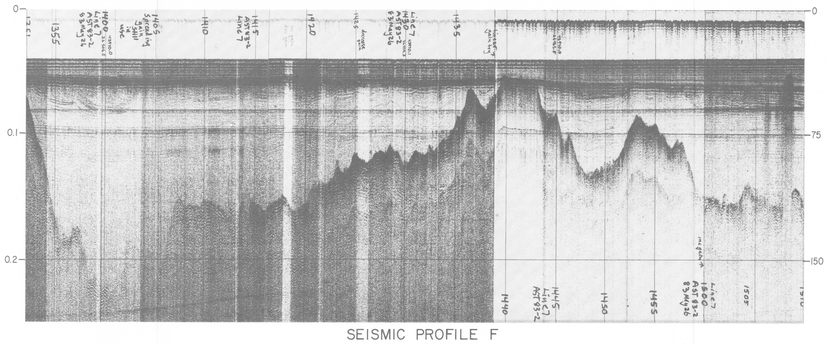




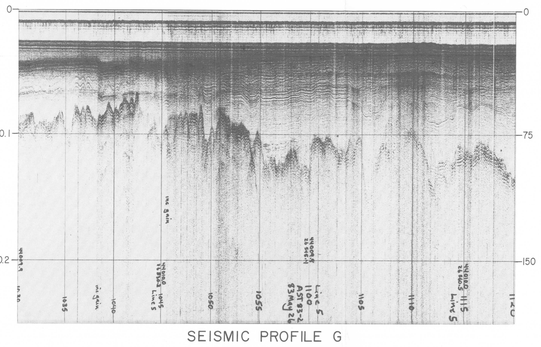




SEISMIC PROFILE E



SEISMIC PROFILE F



SEISMIC PROFILE G

Figure 3.—Selected seismic profiles and interpretive sections. Locations shown on figure 2.

MAPS SHOWING THE QUATERNARY GEOLOGY OF EAST-CENTRAL LONG ISLAND SOUND

By

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