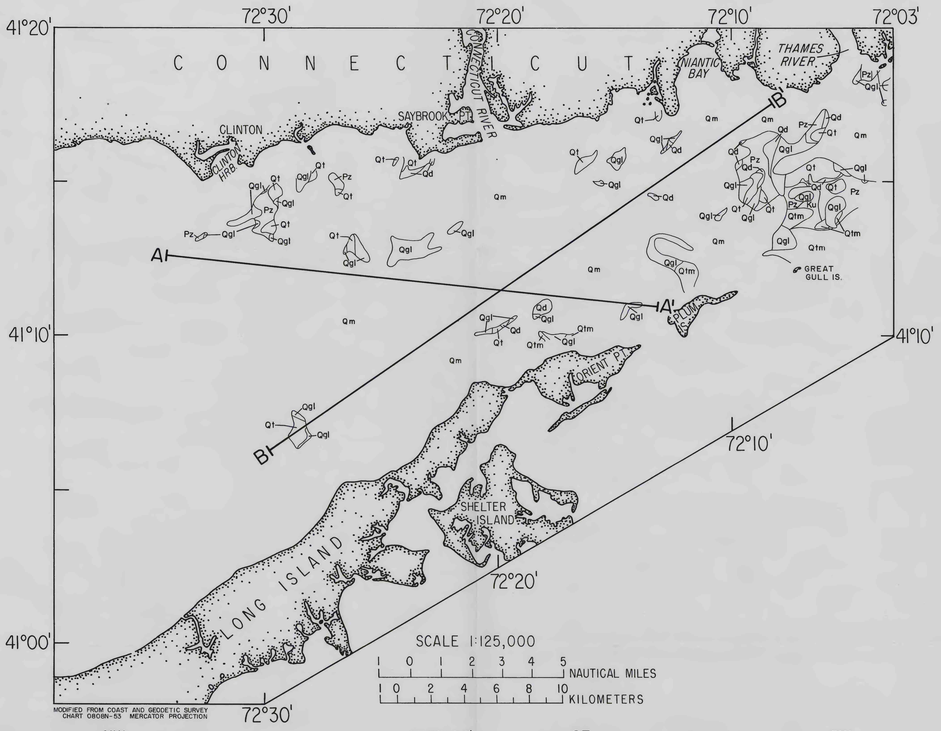
PREPARED IN COOPERATION WITH
THE STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
GEOLOGICAL AND NATURAL HISTORY SURVEY



DESCRIPTION OF UNITS

The distribution and lithology of the units are inferred from interpretation of high-resolution seismic reflection profiles and, in part, the vibracore data. Units may be overlain by a thin cover of younger sediments that is not resolved in the records.

Qm — MARINE DEPOSITS
Post-transgressive marine deposits of Holocene age. Composed of silt, sand, gravel, pebbles, and shell fragments

UNCONFORMITY

Qd — GLACIAL DRIFT
Outwash and ice-contact stratified drift of late Wisconsinan age, may include older deposits. Composed of sand, gravel, silt, and clay

Qtm — END-MORAINE DEPOSITS
End-moraine deposits of late Wisconsinan age, may include older deposits. Deposits are generally 10-50 m thick and are composed of mostly till. Includes stratified sand, gravel, silt, and clay

Qt — GLACIAL DEPOSITS, MOSTLY TILL
Deposits composed mostly of till of late Wisconsinan age but may include older deposits. This unit has positive relief and is generally greater than 10 m thick. Probably includes stratified drift composed of gravel, sand, silt, and clay

Qt — GLACIOLACUSTRINE DEPOSITS
Freshwater lake deposits of late Wisconsinan age. Composed of silt and clay but may include lenses of coarser sediment

UNCONFORMITY

Ku — COASTAL PLAIN STRATA
Coastal-plain strata of mostly Late Cretaceous age, may include strata of Tertiary age. Composed mostly of unconsolidated and semi-consolidated sand, gravel, silt, and clay

UNCONFORMITY

Pz — BEDROCK
Crystalline rock of Pre-Mesozoic age

Holocene
late Pleistocene
QUATERNARY
early Tertiary (?)
Late Cretaceous
PRE-QUATERNARY
Paleozoic

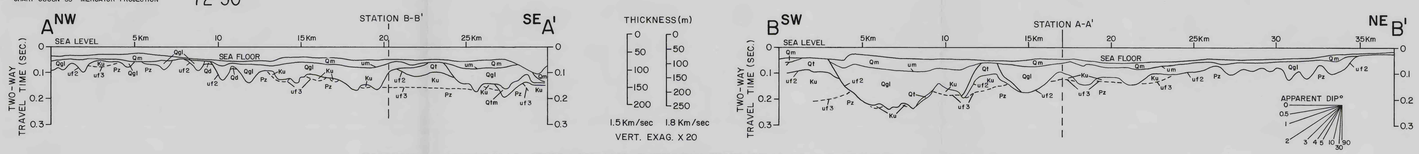


FIGURE 5.—SURFICIAL GEOLOGY AND INTERPRETIVE GEOLOGIC SECTIONS A–A′ AND B–B′.

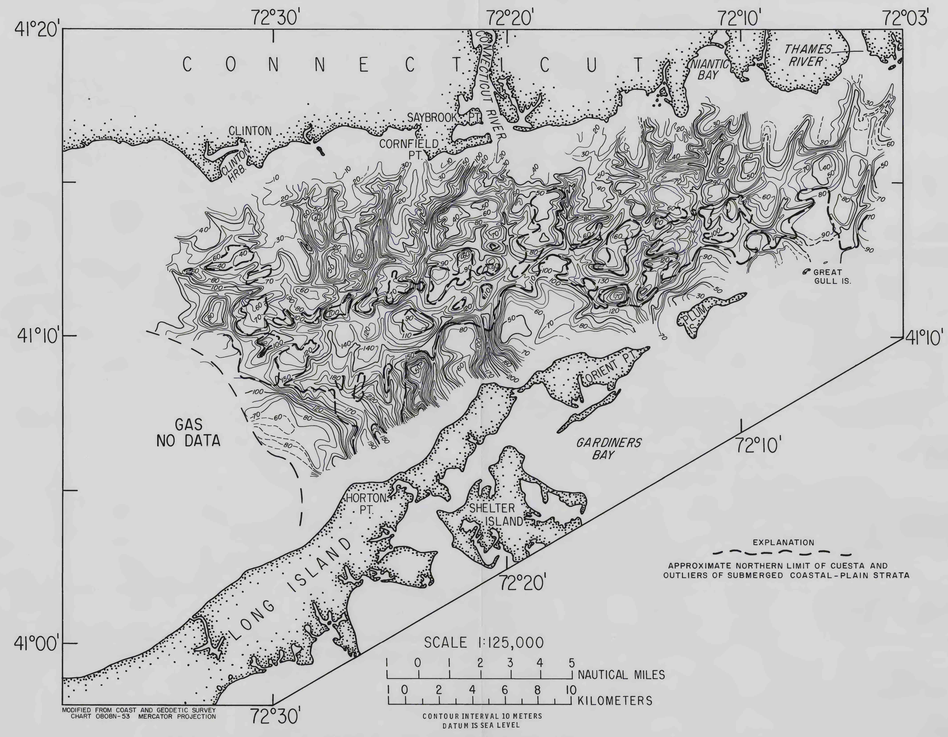


FIGURE 6—DEPTH TO CRYSTALLINE BEDROCK AND SUBMERGED COASTAL-PLAIN STRATA.

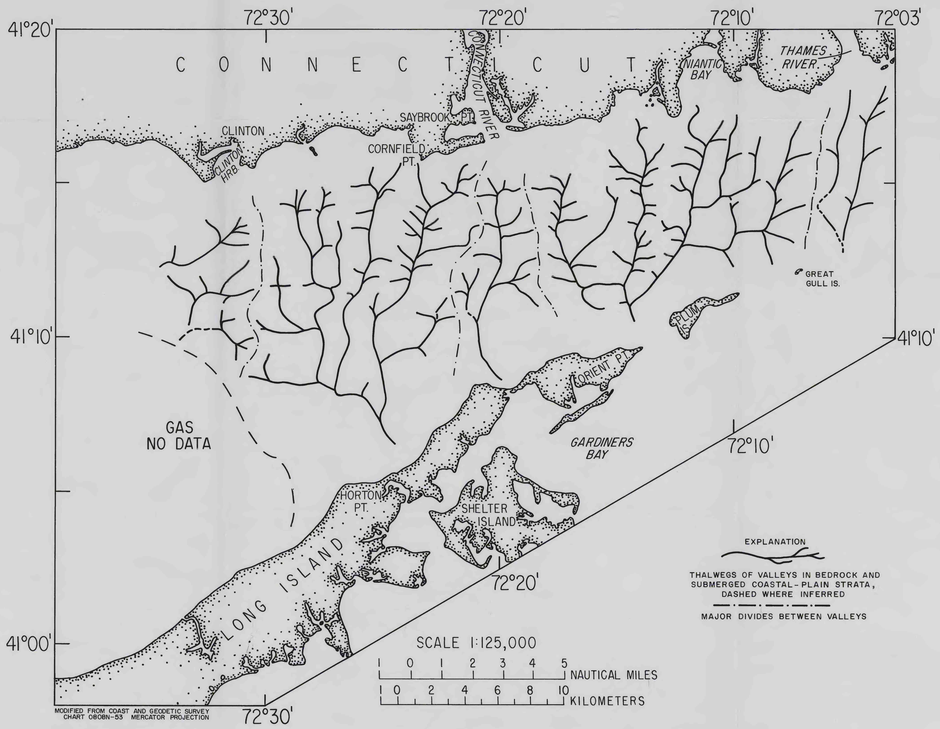


FIGURE 7.—PREGLACIAL DRAINAGE PATTERN IN BEDROCK AND SUBMERGED COASTAL-PLAIN STRATA.

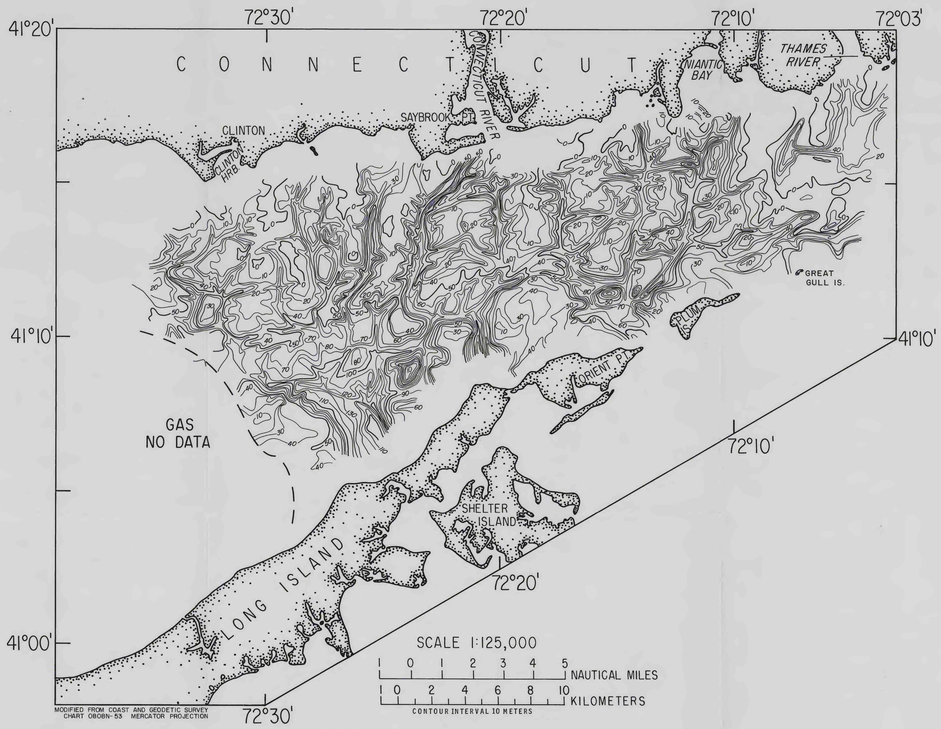


FIGURE 8.—THICKNESS OF GLACIAL DRIFT.

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

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