EXPLANATION

Qd

Eolian deposits

Windblown sand to small pebbles in irregularly shaped dunes, areas of small irregularly shaped discontinuous dunes, climbing dunes, cliff top dunes, and foredunes

Qb

DEPOSITS

POSTGLACIAL

DEPOSITS

ACIAL

RECENT

Beach deposits

Sand to small boulders deposited

by wave action and long shore

currents. Composed of reworked

glacial drift, includes some

fresh water beach deposits

Qbs

Storm beach deposits

Beach and dune deposits

eroded, transported, and
redeposited by storm waves

Qa

Marsh and swamp deposits

Mostly muck, peat, silt, and sand of marine origin. Includes some fresh water marsh and swamp deposits

Qeu

Sand and gravel undifferentiated

Sand and gravel of uncertain age and origin. Includes some valley bottom and shore deposits

Qnh

Nauset Heights deposits

Sand, gravel, silt, clay, and till derived from South Channel lobe ice. Characterized by a high content of basic igneous stones. Mostly well stratified very fine to very coarse sand containing scattered granules to cobbles. Pebble to cobble gravel beds, lenses of silt and clay, and small discontinuous bodies of till common. Boulders up to several tens of feet in diameter abundant in some places. Beds generally a foot to several feet thick; horizontal or gently dipping; where collapsed moderate to steep dips and normal faulting. Planar bedding, current ripples, tabular crossbedding, scour and fill common. Sand mostly quartz; glauconite and feldspar common accessory minerals. Grains are mostly angular to subrounded, a few well rounded. Stone content (percentage of stones based on counts from the Orleans and Chatham quadrangles) mostly basic igneous rocks (27 percent), granite (18 percent), quartzite (16 percent), and acid volcanic rocks (11 percent). A high proportion of schist, phyllite, and quartz with phyllite combined (16 percent). Stones are mostly subangular to subrounded

Qow₂

Cape Cod Bay lobe deposits

Sand, gravel, silt, clay, and till derived from Cape Cod Bay lobe ice. Characterized by a high content of granite stones. Mostly very fine to very coarse sand containing scattered granules to cobbles. Pebble to cobble gravel beds, lenses of silt and clay, and small bodies of till occur in some places. Sparse scattered boulders up to several tens of feet occur locally. Beds generally a foot to several feet thick; horizontal or gently dipping; where collapsed moderate to steep dips and normal faulting. Planar bedding, current ripples, tabular crossbedding, scour and fill common. Sand mostly quartz; glauconite and feldspar common accessory minerals. Grains are mostly angular to subrounded, a few well rounded. Stone content (based on counts from the Orleans, Harwich, and Chatham quadrangles) mostly granite (46 percent), acid volcanic rocks (14 percent), quartzite (11 percent), basic igneous rocks (10 percent). Schist, phyllite, and quartz with phyllite combined (7 percent). Cape Cod Bay lobe deposits overlain in places by thin discontinuous bodies of till and boulders derived from South Channel lobe ice

Cranberry bog

Artificial fill

dg
Graded and filled land

Contact

Inferred western limit of South Channel lobe ice following deposition of Cape Cod Bay lobe outwash

△ 5

Pebble count, triangle shows location

Till fabric, arrow point shows locality. Approximate inferred direction of flow based on highest frequency of direction of long axes of stones in till

Till or clay and silt locality

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U.S. Geological Survey
OPEN FILE MAP
This map is preliminary and has
not been edited or reviewed for
conformity with Geological Survey,
standards or nomenclature.



wn by

measured

Extent of large pits shown by hachures. Letter symbols show texture and structure at pits and other exposures.

S - sand, (VF - very fine, F - fine, M - medium, C - coarse, VC - very coarse); G - gravel, (P - pebble, C - cobble, T - 5'

B - boulder); SL - silt; CL - clay; T - till. S(M-VC) 7'

would read five feet of till over 7' of medium to very coarse sand. Where numbers not given section or unit not

mbers not given section or unit not

Massachusetts (Chatham quad.), Jeel. 1:24,000, 1967.

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