

Durham Rodgers Bedrock Compilation Sheet 4 (paper)

Map

NOTICE !

Bedrock quadrangle 1:24,000 scale compilation sheets for the Bedrock Geological Map of Connecticut, John Rodgers, 1985, Connecticut Geological and Natural History Survey, Department of Environmental Protection, Hartford, Connecticut, in Cooperation with the U.S. Geological Survey, 1:125,000 scale, 2 sheets. [minimum 116 paper quad compilations with mylar overlays constituting the master file set for geologic lines and units compiled to the State map, some quads have multiple sheets depicting iterations of mapping]. Compilations drafted by Nancy Davis, Craig Dietsch, and Nat Gibbons under the direction of John Rodgers.

Geologic unit designation table translates earlier map unit nomenclature to the units ultimately used in the State publication.

This map set contains unpublished maps, cross-sections, and related information archived by the State Geological and Natural History Survey of Connecticut as part of the Survey Library Collection.

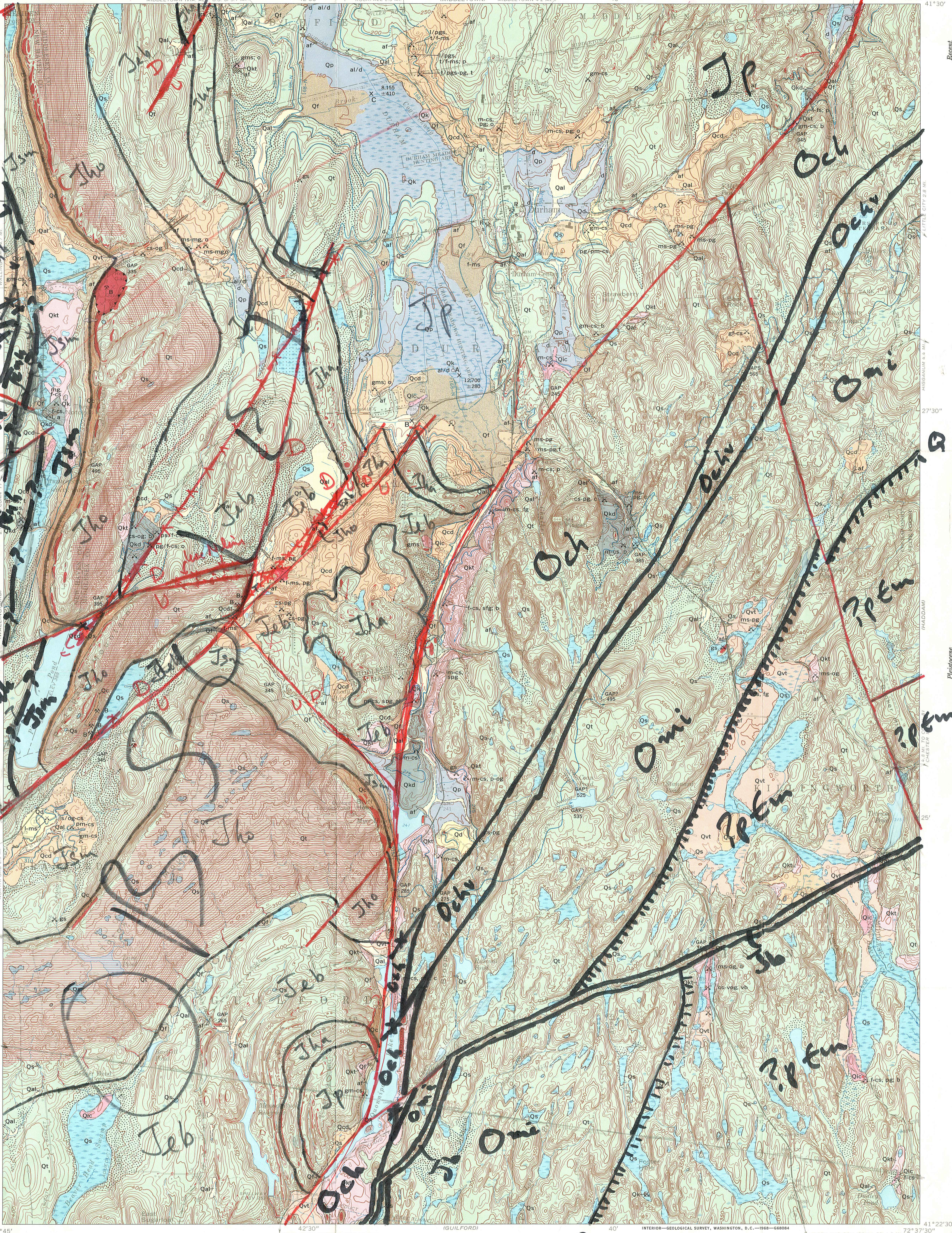
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Interpretation July 1928
 DEPARTMENT OF THE INTERIOR
 UNITED STATES GEOLOGICAL SURVEY
 PREPARED IN COOPERATION WITH THE
 STATE GEOLOGICAL SURVEY
 CONNECTICUT
 GEOLOGICAL AND NATURAL HISTORY SURVEY

GEOLOGIC QUADRANGLE MAP
 SURFICIAL GEOLOGY
 DURHAM QUADRANGLE, CONNECTICUT
 GQ-756



EXPLANATION

Artificial fill
 Commonly sand to sandy gravel, locally till, patterned where chiefly trash. Not mapped around buildings. Thickness commonly between 3-10 feet

Contact
 Dashed where approximately located; short dashed where inferred

Approximate trace of principal faults
 Marks boundary between reddish-brown sedimentary formations interbedded with basalt lava flows on the west, and generally light-colored metamorphic rocks on the east

Generalized strike and dip of beds

Glacial striation
 Shows inferred direction of glacial flow. Pons of arrow marks locality

Principal gap
 Shows approximate altitude, in feet, of present ground surface, which, acting as local base level, temporarily controlled glacial drainage and, locally, drainage routes. Queried where inferred

Melt-water route
 Shows inferred direction of flow

Inferred glacial-pond margin
 Position inferred from approximate altitude of present ground surface of spillway that controlled pond level. Margin as mapped follows contours of present topography despite minor erosion probable since pond existed; altitude of margin arbitrarily increases northward by about 1 foot per mile, representing the approximate rate of late-glaciation crustal rebound commonly inferred in New England, although neither this rate of rebound nor crustal rebound itself is proved in this quadrangle. Symbols group ponds by approximate relative age; number indicates altitude, in feet, of controlling spillway; N, spillway is located in adjacent quadrangle north; query indicates extent of margin indefinite

Local glacial-drainage divide
 Approximate topographic boundary between glacial drainage initially south and southeast toward Long Island Sound, subsequently north and northeast toward the Connecticut River. Not shown on and north of Totoket Mountain

Pollen-analysis locality!
 U.S. Geological Survey Paleobotanical Locality:
 A, D3776
 B, D3777
 C, D3778

Jb - Baltic ice advance
 Age in years before present. Dated organic-rich layer at C overlies dated organic-rich layer at A

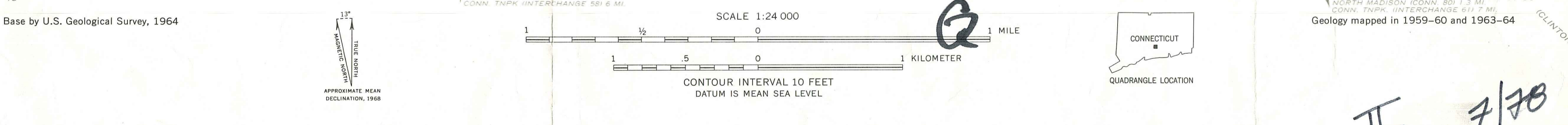
Well exposed Poorly exposed
 Sand or gravel pit

EXPLANATION

Jp - Portland formation
 Jha - Hamden basalt
 Jhb - East Berlin fm.
 Jho - Holyoke basalt
 Jsm - South Mountain
 Jta - Talcott basalt
 Tenh - New Haven ash
 Och - Collins Hill formation
 Ochu - Volcanic member of Collins Hill formation
 Omi - Middletown fm.

1. Lothrop, E. A. 1936. Climate and vegetation changes during an interstadial period in southern New England. Sterling Library, Yale University, Ph. D. Dissertation.

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**SURFICIAL GEOLOGIC MAP OF THE DURHAM QUADRANGLE
 MIDDLESEX AND NEW HAVEN COUNTIES, CONNECTICUT**

By
 Howard E. Simpson
 1968