

Webster Bedrock Geology Map w/ Explanation

Explanation

Map

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Transmittal memorandum

Date 8/15/74

To: Branch of Plans and Program Management,
Publications Division --(Stop 329)

From: Chief, Office of Scientific Publications

Subject: New USGS Open-File Report

The following report was authorized by W. P. Ketterer for the Director
on 8/14/74 for release in the open files:

Title Preliminary bedrock geologic map of the Webster
quadrangle, Massachusetts-Connecticut

Author(s): Patrick J. Barosh

Contents: 2 pages of explanation and 1 plate

Map scale: 1:24,000

Depositories (list and addresses):

USGS Library, Rm. 4A100, 12201 Sunrise Valley Dr., Reston, Va. 22092

USGS, 80 Broad St., Boston, Ma. 02110

Massachusetts Dept. of Public Works, 99 Worcester St., Wellesley, Ma. 02181

Connecticut Geologic and Natural History Survey, 165 ^{Capital Ave} State Office Bldg.,
Hartford, Ct. 06115

Location of depositories holding reproduces:

USGS, 80 Broad Street, Boston, Ma. 02110

Release date:

August 1974

George E. Barosh

This map is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature.

Explanation - Webster Quad, Mass - Conn.
Intrusive Rocks

Dqd	Biotite quartz diorite
Dg	Granite, Dgp porphyritic phase;
Dgp	Dgs, sheared muscovitic border zone
Dgs	
Dqgm	Muscovite quartz monzonite
Dpgm	Porphyritic quartz monzonite

Stratified Metamorphic Rocks

SOs	Southbridge Formation
SOh	Hebron Formation
SOo	Oakdale Formation
SOlv	Hodges Village Phyllite
EpEncg	Nashoba Formation; Xncg, crinkled gneiss unit.
EpEnu	Xnu, undifferentiated.

Explanation - Webster Quad. Mass. - Conn.

Contact

Long dashed where approximately located; short dashed where inferred; dotted where concealed



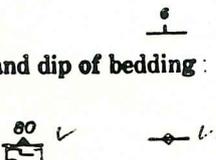
Fault

Long dashed where approximately located or inferred; dotted where concealed. Arrows show relative direction of strike-slip movement. U, upthrown side; D, downthrown side. Teeth on upper plate of thrust



Lineament, reflects small fault or zone of closely spaced joints or both

Strike and dip of bedding



Inclined Vertical
Strike and dip of foliation

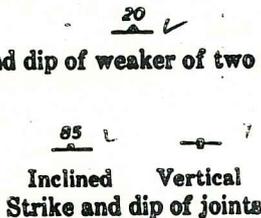
Strike and direction of dip of foliation



Inclined Vertical Overturned
Strike and dip of stratification (parallel to foliation)

Ball indicates top determined from sedimentary structures; in vertical beds position of ball indicates direction of top. Map sense of minor fold shown where determined

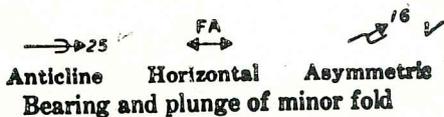
Strike and dip of weaker of two foliations



Inclined Vertical
Strike and dip of joints

Anticline Syncline

Showing approximate trace of axial surface and direction of plunge. Dotted where concealed



Anticline Horizontal Asymmetric
Bearing and plunge of minor fold

Mineral and crinkle fold Quartz rods

Bearing and plunge of lineation
May be used in combination with foliation or fold symbols.
Point of observation at tail of arrow

Correlation

Devonian?

Dgd		
Dg	Dgp	Dgs
Dmgm		
Dp.gm		

Ordnovician? to Silurian

SOs
SOh
SOo
SOhv

Cambrian? or older

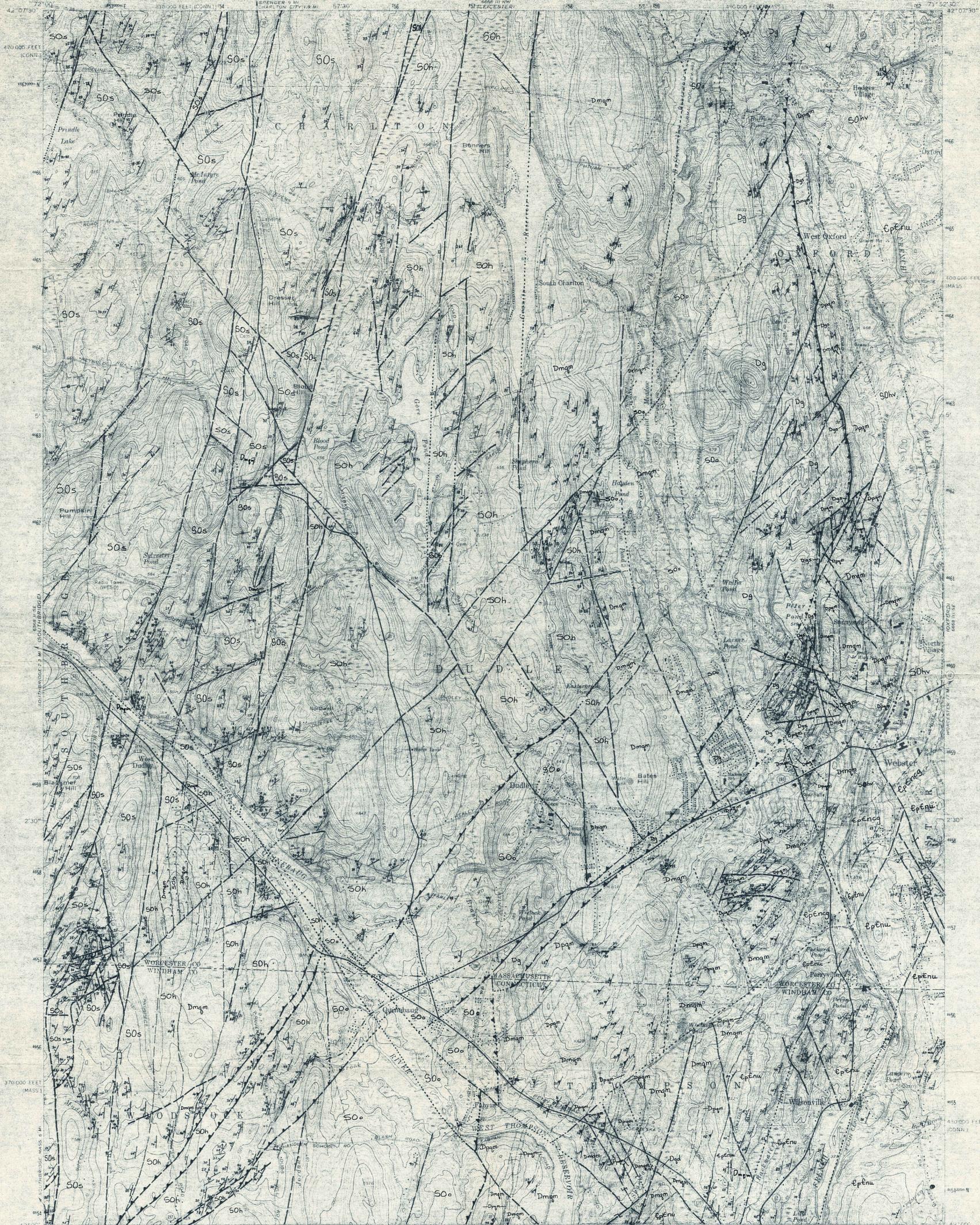
EpEncg
EpEnu

TOP

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Prepared in Cooperation With The
COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS

WEBSTER QUADRANGLE
MASSACHUSETTS-CONNECTICUT
7.5 MINUTE SERIES (TOPOGRAPHIC)



Maped, edited and published by the Geological Survey
Center, USGS, USC&GS, and Massachusetts Geologic Survey
Topography by plane-table surveys 1942-1943. Revised from aerial
photographs taken 1966. Field checked 1969.
Relief projection: 1927 North American datum
30,000 foot grids based on Massachusetts coordinate system,
mainland zone, and Connecticut coordinate system
7,000 meter Universal Transverse Mercator grid ticks,
zone 18, shown in blue
Faint dashed lines indicate selected fence and field lines where
generally visible on aerial photographs. The information is uncheckered
Red flag indicates areas in which only landmark buildings are shown
Areas covered by dashed light-blue pattern
are subject to controlled inundation

Geology mapped in 1877-78,
checked by William Sherwood, 1871,
and Mark Longman, 1872
Scale 1:24,000
CONTOUR INTERVAL 10 FEET
DATUM: MEAN SEA LEVEL
THIS MAP COMBINED WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION
Primary highway, all weather. Light-duty road, all weather.
hard surface. Improved surface.
Secondary highway, all weather. Unimproved road, fair or dry
hard surface.
State Route

WEBSTER, MASS.-CONN.
N4200-W7152.5-7.5
1969
AMS 8668 III SW-SERIES V814

Preliminary Bedrock Geologic Map of the Webster Quadrangle, Mass.-Conn.
by
Patrick J. Barosh
1974

U.S. Geological Survey
OPEN FILE MAP 74-192
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conformity with Geological Survey
standards or nomenclature.