

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 State Office Bldg.,
Hartford, Ct. 06115

Location of depositories holding reproducibles:

USGS, 80 Broad Street, Boston, Ma. 02110

Release date:

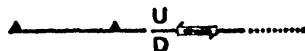
August 1974

George E. Barosh

Explanation - Webster Quad. Mass. - Conn.

Contact :

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

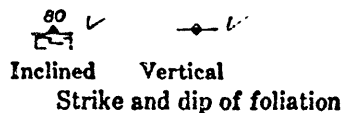


Fault :

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 :



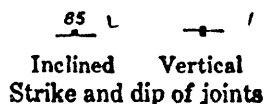
Strike and direction of dip of foliation



Strike and dip of stratification (parallel to foliation)

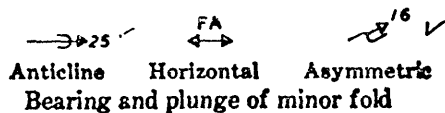
Ball indicates top determined from sedimentary structures; in vertical beds position of ball indicates direction of top. Map sense of minor fold shown where determined

Strike and dip of weaker of two foliations



Anticline Syncline

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



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 |
| Dngm | | |
| Dpgm | | |

Ordovician? to Silurian

| |
|------|
| Sos |
| Soh |
| Soo |
| Shhv |

Cambrian? or older

| |
|--------|
| EpEncg |
| EpEnu |

P.J. Barosh

Explanation - Webster Quad, Mass - Conn.
 Intrusive Rocks

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

Stratified Metamorphic Rocks

| | |
|-------|--|
| SOs | Southbridge Formation |
| SOh | Hebron Formation |
| SOo | Oakdale Formation |
| SOlv | Hodges Village Phyllite |
| Epncg | Nashoba Formation; Xnag, crinkled gneiss unit. |
| Epnu | Xnu, undifferentiated |