



Description of Map Units

(Not necessarily in stratigraphic order; minerals listed in order of increasing abundance)

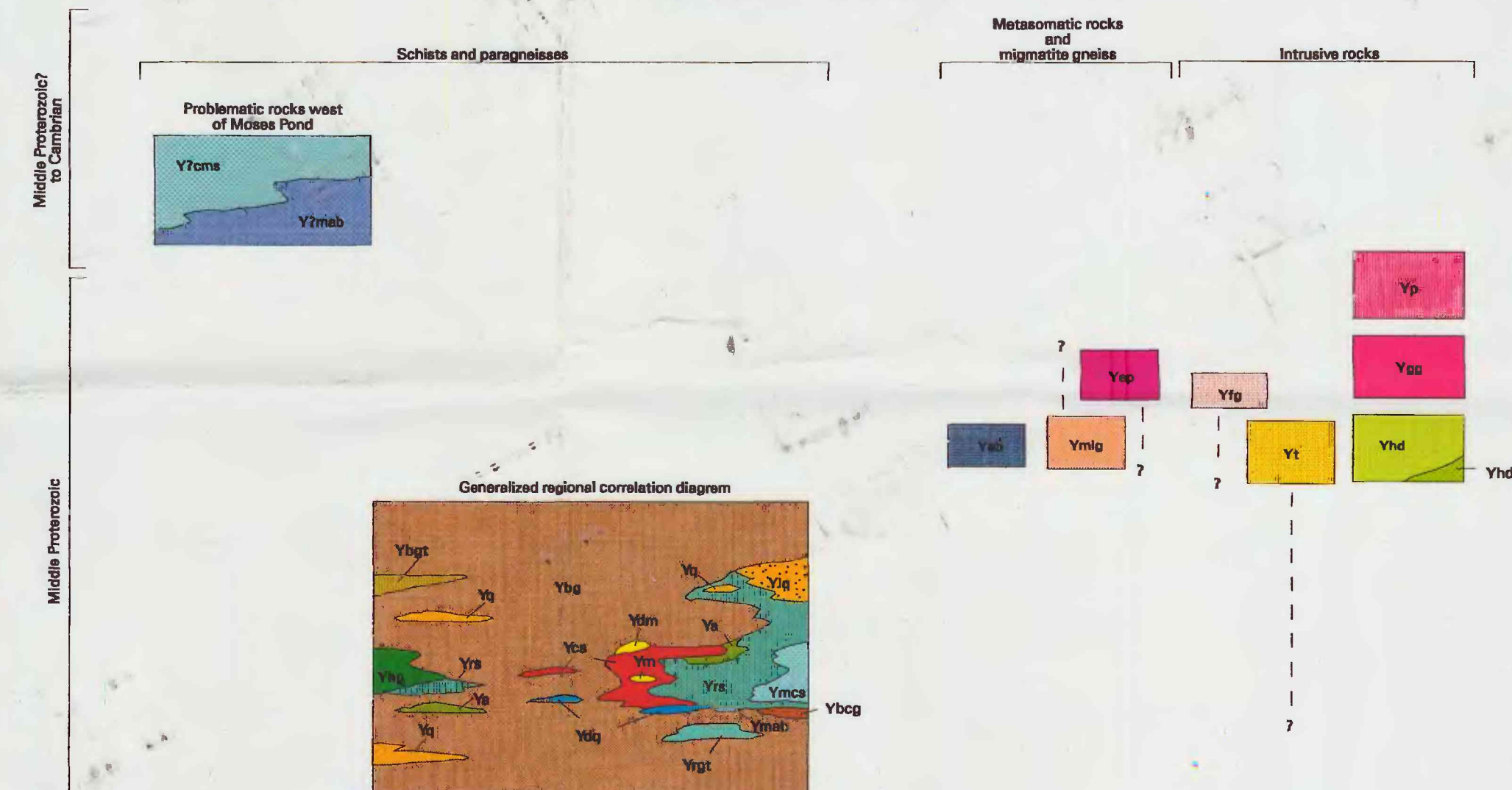
SCHISTS AND GRANOFELS OF POSSIBLE MIDDLE PROTEROZOIC AGE

Y7cms Garnet-chlorite-quartz-muscovite +/- chloritoid schist
Y7mab Biotite-muscovite-albite-quartz schist

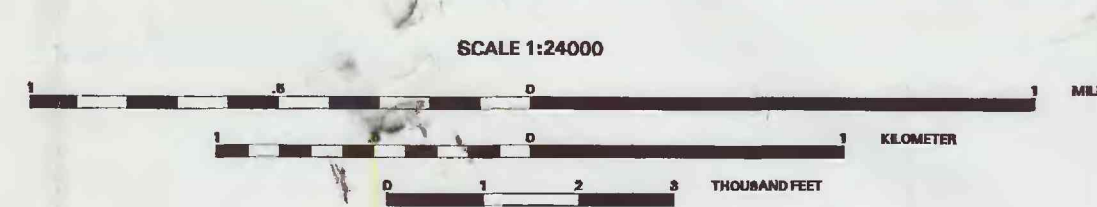
MIDDLE PROTEROZOIC MOUNT HOLLY COMPLEX

- Yp Granite pegmatite
- Ygg Biotite granite gneiss
- Yap White, feldspar-rich aplite gneiss
- Yhd Hornblende diorite gneiss
- Yhda Fine-grained hornblende-plagioclase amphibolite
- Yt Trondhjemite gneiss
- Ymig Migmatite gneiss
- Yfg Felsic magnetite-biotite gneiss
- Yab Albite-muscovite-biotite-quartz schist
- Ys Amphibolite
- Yhg Hornblende-plagioclase gneiss
- Ybg Biotite-quartz-plagioclase gneiss
- Ybgt Garnet-muscovite-biotite-plagioclase-quartz gneiss
- Yrs Garnet-chlorite-muscovite-quartz +/- chloritoid schist
- Yrgt Garnet-muscovite-biotite-plagioclase-quartz schist
- Ymca Lustrous, chlorite-muscovite-quartz +/- chloritoid schist
- Ymab Biotite-muscovite-albite-quartz schist
- Yq White vitreous quartzite
- Ylq Massive vitreous quartzite from Ludlow Mountain
- Ycs Calc-silicate rocks including hornblende-diopside gneiss, calcite marble, calcite-diopside marble, tremolite-calcite or tremolite-dolomite marble, scapolite rock, scapolite-phlogopite dolomite marble, plagioclase-microcline-diopside-quartz-calcite granofels or gneiss
- Ym Calcite marble
- Ydm Orange-tan dolomite marble, gray phlogopite-dolomite marble
- Ydq White, diopside quartzite
- Ybcg Clinzoisite-biotite-actinolite-plagioclase-quartz gneiss

CORRELATION OF MAP UNITS

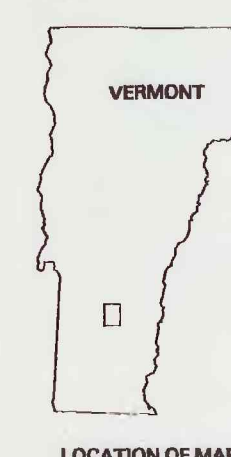


Topography from the Weston, VT quadrangle (1986 edition)
Contour Interval 6 meters
Map projection is Universal Transverse Mercator
Digital map units in State Plane Coordinate System
National Geodetic Horizontal Datum of 1927
Roads from the Vermont Center for Geographic Information, Inc.



Approximate Mean Declination
15°00' West, 1986

Geology mapped by Ratcliffe in 1989-1995
and Burton in 1989.
Digitized by Burton and Thomas Merrifield.



Digital Bedrock Geologic Map of the Weston Quadrangle, Vermont

by
N.M. Ratcliffe¹ and W.C. Burton¹
1996

AFFILIATIONS:
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Explanation of Map Symbols

- Contacts
- Outcrops (areas of exposed bedrock examined in this study)
- Thrust fault, teeth on upper plate

This report is preliminary and has not been reviewed for
conformity with U.S. Geological Survey editorial standards
or with the North American Stratigraphic Code. Any use of
trade names is for descriptive purposes only and does not
imply endorsement by the U.S. Government.
Plates 1 and 2 are part A and the database is part B of this
Open-File Report. Both parts are available from the Vermont
Geological Survey, telephone (802) 241-3488.

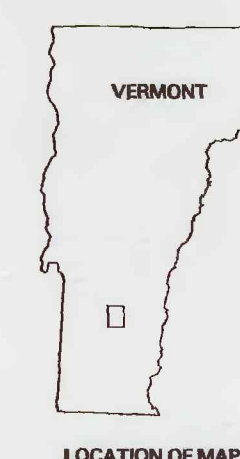


Explanation of Map Symbols

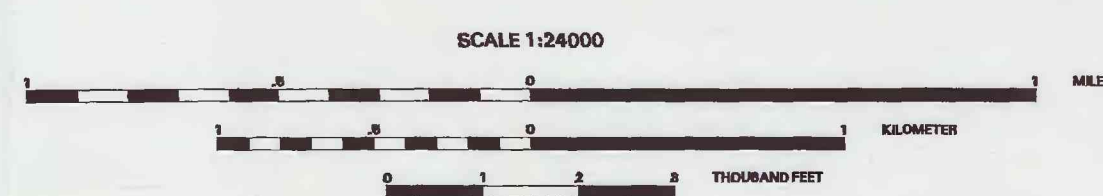
- Foliation
- Strike and dip of inclined foliation on interpretive form-lines
 - Strike and dip of vertical foliation on interpretive form-lines
- Cleavage
- Strike and dip of inclined cleavage
 - Strike and dip of vertical cleavage
- Thrust Faults
- Thrust fault, teeth on upper plate

Plates 1 and 2 are a paper representation of the digital bedrock geologic information for the Weston Quadrangle located in Rutland, Windsor, Bennington and Windham counties, Vermont. All of the bedrock geology data were obtained from Ratcliffe and Burton (unpublished data), and were digitally compiled on a personal computer system using PC ARC/INFO version 3.40 Plus by Environmental Systems Research Institute, Inc.. The data shown on Plate 1 were exported to ARC/INFO version 7.0 where solid color fill patterns were generated, and faults were drawn using symbols from a linestyle (alacrow61.lin) from ALACARTE software (Fitzgibbon and Wentworth, 1991). The compilation procedures discussed in Walsh and others (1994) were used in the preparation of this report, with the exception of the topography. The topography was obtained from a photographic negative separate of contour lines from the Weston, VT (1986 provisional edition) U.S.G.S. 7.5-minute topographic quadrangle. The negative was scanned on an IDEAL FSS 6000 raster-format scanner. The raster image was vectorized using GTX DSR Contour version 2.00 by GTX Corporation, Inc., and converted into an unattributed line coverage in ARC/INFO version 7.0.

1. Fitzgibbon, T.T., and Wentworth, C.M., 1991, ALACARTE user interface: AML code and demonstration maps, Version 1.0: U.S. Geological Survey Open-File Report 91-587.
2. Walsh, G.J., Ratcliffe, N.M., Dudley, J.B., and Merrifield, T., 1994, Digital bedrock geologic map of the Mount Holly and Ludlow quadrangles, Vermont: U.S. Geological Survey Open-File Report 94-228, scale 1:24000.



Topography from the Weston, VT quadrangle (1986 edition)
Contour interval 6 meters
Map projection is Universal Transverse Mercator
Digital map units in State Plane Coordinate System
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Digital Bedrock Geologic Map of the Weston Quadrangle, Vermont

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