



Description of Map Units

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

- LATE-METAMORPHIC AND POST-METAMORPHIC INTRUSIVE ROCKS**
- Kd Cretaceous dikes
 - Ks Lamprophyre dikes
 - Dg Sausseritized country rock
 - Dg Devorian dikes
 - Dg Muscovite granodiorite to trondhjemite dikes
 - Dg Ordovician and Devonian metamorphic veins
 - ODq Quartz veins
- ROCKS OF THE PRE-SILLURIAN COVER SEQUENCE**
- OZu Ordovician and Late Proterozoic ultramafic rocks
 - OZu Serpentine and carbonate-talc schist to gneiss
- Cambrian and Late Proterozoic Tyson Formation**
- Cob Dark-gray to black, sulfidic, graphitic chlorite-quartz-muscovite phyllite
 - Coqb Dark blue-gray to black vitreous quartzite
 - Coq Tan muscovite-plagioclase-quartz schist and sandy to vitreous quartzite
 - Coqc Tan quartz schist with small pebbles of plagioclase and blue-quartz
 - Cog Gray to gray-green chlorite-biotite-muscovite-plagioclase-quartz schist to gneiss with cotecule ("c" on map)
 - Coga Gray-green to light-gray, laminated, gritty plagioclase-quartz schist to chlorite-biotite-muscovite-plagioclase-quartz schist with cotecule ("c" on map)
 - Cocab Tan to dark-gray, rusty, carbonaceous albitic chlorite-plagioclase-muscovite-quartz schist with quartzite and muscovite-quartz schist
 - Com Silvery-green coarse-muscovite garnet-chlorite-quartz-muscovite schist
 - Coa Greenstone
- Cambrian and Late Proterozoic Stowe Formation**
- CZs Silvery-green magnetite-plagioclase-chlorite-quartz-muscovite schist
 - CZsgt Silvery-green garnetiferous plagioclase-chlorite-quartz-muscovite schist
 - CZsa Greenstone
- Cambrian and Late Proterozoic Fayston formation**
- CZfca Tan to dark-gray or black, carbonaceous, albitic chlorite-plagioclase-quartz-muscovite schist
 - CZfdq Tan laminated dolomitic quartzite
 - CZfab Gray-green albitic magnetite-chlorite-albite-quartz-muscovite schist
 - CZfb Light-gray chlorite-muscovite-biotite-plagioclase-quartz granofels to gneiss
 - CZfq Quartzite and muscovite quartzite
 - CZfm Rusty to rusty-gray muscovite-quartz schist to chlorite-plagioclase-muscovite-quartz schist
 - CZfqc Light-gray to rusty muscovite-plagioclase-quartz granofels and muscovite quartzite with small blue-quartz pebbles
 - CZfsg Silvery-green to light-green chlorite-quartz-sericite phyllite to schist
 - CZfc Gray to steel-gray and light-gray to silvery-tan chloritoid-chlorite-quartz-sericite schist
- Cambrian and Late Proterozoic Pinney Hollow Formation**
- CZph Silvery-green magnetite-chlorite-quartz-sericite phyllite to schist and silvery-gray to steel-gray quartz-chlorite-sericite phyllite
 - CZphc Gray to steel-gray and light-gray to silvery-tan chloritoid-chlorite-quartz-sericite schist
 - CZpha Greenstone and carbonate-muscovite-albite-quartz-chlorite schist
 - CZphb Silvery-gray to cream chlorite-quartz-muscovite-calcite schist
 - CZphf White to pale green and light-pink to rusty weathering calcite-quartz-muscovite-plagioclase granofels to gneiss
 - CZphfq Gray to purplish-gray feldspathic quartzite
 - CZphb Dark-gray to black, carbonaceous, sulfidic chlorite-quartz-muscovite schist and albitic chlorite-albite-quartz-muscovite schist
 - CZphq Dark blue-gray to black vitreous quartzite
 - CZphq Light-gray to gray-green, laminated, gritty chlorite-muscovite-plagioclase-quartz schist to granofels
 - CZphw Dark-gray to gray-brown biotite-chlorite-muscovite-plagioclase-quartz granofels or metawacke with small pebbles of quartz, feldspar, and rock fragments
 - CZphab Gray-green to silvery-green albitic chlorite-albite-quartz-muscovite schist
 - CZphgq Gray quartzite
 - CZphm Cream to light-pink calcite marble
- ROCKS OF THE GREEN MOUNTAIN MASSIF**
- Ymh Middle Proterozoic Mount Holly Complex
 - Ymh Light- to medium-gray biotite-chlorite-muscovite-quartz-plagioclase gneiss
 - Yq Muscovite quartzite and chlorite-muscovite quartzite

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Reference:
Falta, C.K., 1991, Tectono-stratigraphic geology of the Rochester-Hancock area, central Vermont: Master of Science thesis, University of Vermont, Burlington, Vermont, 223 p., scale 1:12,000.



Topography from the Rochester, VT quadrangle (1970 edition)
Contour Interval 20 feet
Map projection is polyconic
Digital map units in State Plane Coordinate System
National Geodetic Horizontal Datum of 1927
Roads from the Vermont Center for Geographic Information, Inc.



Geology mapped by Walsh in 1993 and 1994,
and Falta in 1988.
Digitized by Walsh and Thomas Merrifield.
Approximate Mean Declination
15°30' West, 1988

Digital Bedrock Geologic Map of the Rochester Quadrangle, Vermont

by
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1996

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Explanation of Map Symbols

- Contacts
- Outcrops (areas of exposed bedrock examined in this study)
- Thrust fault, teeth on upper plate; dotted where concealed by water

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and 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) 241-3468.