

**Description of Map Units**

**Moretown Formation (Ordovician)**

- Omdh** Dark to medium gray quartzite, laminated quartzite, phyllite, and granofels.
- Omp** Interlayered gray and green quartz-sericite-chlorite-albite granofels, "pinstriped" granofels, and tan phyllite.

**Ultramafic Rocks (Ordovician to Late Proterozoic?)**

- OZum** One occurrence at the Barnes Hill Talc prospect; brown to white weathering, dark green, serpentinite and talc-carbonate rock.

**Stowe Formation (Cambrian to Late Proterozoic)**

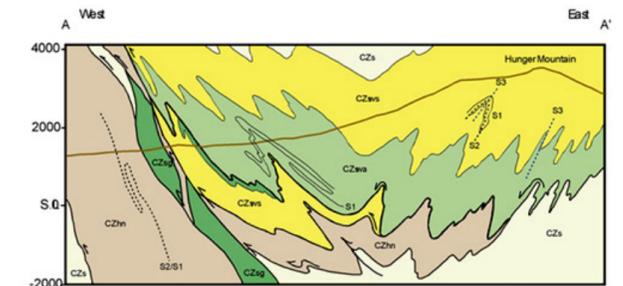
- CZs** Green to gray quartz-sericite-chlorite phyllite and schist; black graphitic phyllite; abundant quartz veins; thin (1-10 m) interlayered greenstone is common at Chases Mountain. The contact between CZs and CZsws is gradational over approximately 100 meters and is marked by a gradual increase in grain size, principally of muscovite, and by the presence of garnet and kyanite.
- CZssp** Gray-green laminated sandy schist and interlayered phyllite.
- CZsgp** Gray quartz-sericite phyllite and schist.
- CZsbp** Black, graphitic phyllite +/- pyrite.
- CZsas** Dark gray, quartz-sericite schist with albite porphyroblasts.
- CZsg** Light to dark green, massive to foliated chlorite-epidote-albite-actinolite greenstone and calcareous greenstone, commonly with compositional layering defined by epidote-rich layers and pods.
- CZsws** Bluish-silver to white, medium- to coarse-grained, spangly, chlorite-muscovite-quartz schist +/- albite, garnet, kyanite, and chloritoid with elongated quartz knots and pink calcic lenses; garnet is commonly partially to completely altered to chlorite and kyanite is commonly altered to sericite; quartz veins are abundant. The southern contact with CZs is gradational over approximately 100 meters and is marked by a gradual decrease in grain size, principally of muscovite, and by the absence of garnet and kyanite.
- CZswa** Dark green to black, massive, medium- to coarse-grained, banded albite-epidote-hornblende amphibolite +/- garnet; contact with CZsws is generally sharp, and the units are interlayered; a distinctive medium to coarse-grained plagioclase-hornblende-magnetite meta-felsite occurs locally along both the upper and lower contacts of the amphibolite with the coarse-grained schists (CZsws).

**Hazens Notch Formation (Cambrian to Late Proterozoic)**

- CZhn** Dark gray and green, rusty-weathering, patchy graphitic, albitic muscovite-chlorite-quartz schist +/- pyrite; dark gray foliated quartzite, black graphitic phyllite; silver-gray calcareous and non-calcareous granofels occurs locally along contacts with greenstones.
- CZhnn** Fine to medium grained, gray granofels and schist.
- CZhnp** Gray and rusty weathering, black graphitic, sulfidic phyllite.
- CZhng** Light to dark green, massive to foliated chlorite-epidote-albite-actinolite greenstone and calcareous greenstone, commonly displays compositional layering defined by epidote-rich layers and pods.

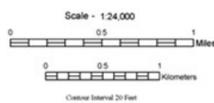
**Explanation of Map Symbols**

- Contact
- Thrust Fault - Teeth on upper plate
- Outcrop Locations/ Data Points
- S1- Strike and dip of penetrative schistosity parallel to compositional layering
- S2- Strike and dip of axial planar foliation. Includes S2/S1 composite fabric.
- S3- Strike and dip of crenulate to slip cleavage
- S4- Strike and dip of widely spaced slip cleavage
- Trend and plunge of F3 fold axes
- Cross-section Line "A-A"
- USGS 24K Quadrangle Boundaries



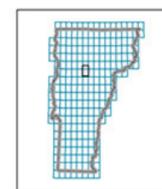
Cross-section A-A' through the northern portion of the field area in the Worcester Mountains.

Base map from U.S. Geological Survey.  
 Quadrangle names printed in blue.  
 Coordinate System: Vermont State Plane, meters, NAD 83.  
 Geographic coordinates shown at topo corners are in NAD 83.  
 Grid overlay on map is Universal Transverse Mercator,  
 Zone 18N, NAD 27.  
 Digitized by M.Gale, J. Kim and S. King



**BEDROCK GEOLOGIC MAP OF THE SOUTHERN WORCESTER MOUNTAINS WATERSHED, MIDDLESEX AND STOWE 7.5 MINUTE QUADRANGLES, VERMONT**

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 2006



Published by:  
 Vermont Geological Survey  
 Laurence Becker, State Geologist  
 Department of Environmental Conservation  
 Agency of Natural Resources  
 103 South Main St., Logue Building  
 Waterbury, VT 05671  
<http://www.anr.state.vt.us/dec/geo/vgs.htm>

Research supported by the Vermont Geological Survey, Dept. of Environmental Conservation, VT ANR.  
 This geologic map was funded in part by the USGS National Cooperative Mapping Program.  
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