

Description of Map Units

- Igneous Rocks**
 - Co** Medium gray, equigranular, massive, medium-grained metabasite with optitic texture. Occurs as a small (100') intrusive on the west side of Rte 100 just south of Stowe Lower Village
- Ottawaquechee Formation (Cambrian)**
 - Co** Rusty-weathering, black, graphitic, sulfidic phyllite, phyllitic granofels, light green to gray quartzose schist with pyrite, and gray quartzite
 - Co_{sp}** Rusty-weathering, black, graphitic, sulfidic, quartzose phyllite; interlayering of gray-green phyllite occurs locally
 - Co_{spg}** Fine-grained, light to dark green, massive to foliated greenstone
 - Co_{spg}** Rusty-weathering light gray to tan, gritty phyllitic granofels
 - Co_{sp}** Rusty-weathering, gray to black albitic quartz-muscovite schist
- Stowe Formation (Cambrian)**
 - CZs** Green to gray quartz-sericite-chlorite phyllite and schist
 - CZsgg** Interlayered green phyllite, massive greenstone and quartz-bearing mafic volcanoclastics
 - CZsi** Interlayered green to gray quartz-sericite-chlorite phyllite and schist and black graphitic phyllite
 - CZsn** 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; igneous layering and pillow structures occur locally; locally weathers dark orange and punky
 - CZsaa** Rusty weathering, fine-grained, gray albitic schist and granofels
 - CZsp** Rusty-weathering, black graphitic, sulfidic phyllite
 - CZsp** Silvery gray to green, fine-grained to medium-grained and spangly, massive to schistose, quartz-chlorite-muscovite-albite schist +/- garnet
 - CZswa** Dark green to black, massive, medium to coarse-grained, banded albite-epidote-hornblende amphibolite +/- garnet
 - CZsws** Silver blue, 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
- Hazens Notch Formation (Lower Cambrian)**
 - CZhn** Dark gray and green, rusty, graphitic albitic muscovite-chlorite-quartz schist +/- pyrite; dark gray foliated quartzite; black graphitic phyllite; silver-gray calcareous and non-calcareous granofels occurs locally near contacts with greenstones
 - CZhn_g** Light to dark green, massive to foliated chlorite-epidote-albite-actinolite greenstone and calcareous greenstone; locally weathers dark orange and punky
 - CZhn_{gs}** Rusty weathering gray-green albitic schist
 - CZhn_q** Gray to black fine-grained massive quartzite
 - CZhn_g** Dark orange and punky weathering, light tan to silver green granofels and schist; commonly occurs in association with greenstone
 - CZhn_s** Green papyry schist
- Ultramafic Rocks**
 - CZun** Orange-weathering, green serpentinite and talc; occurs at the Barnes Hill talc mine

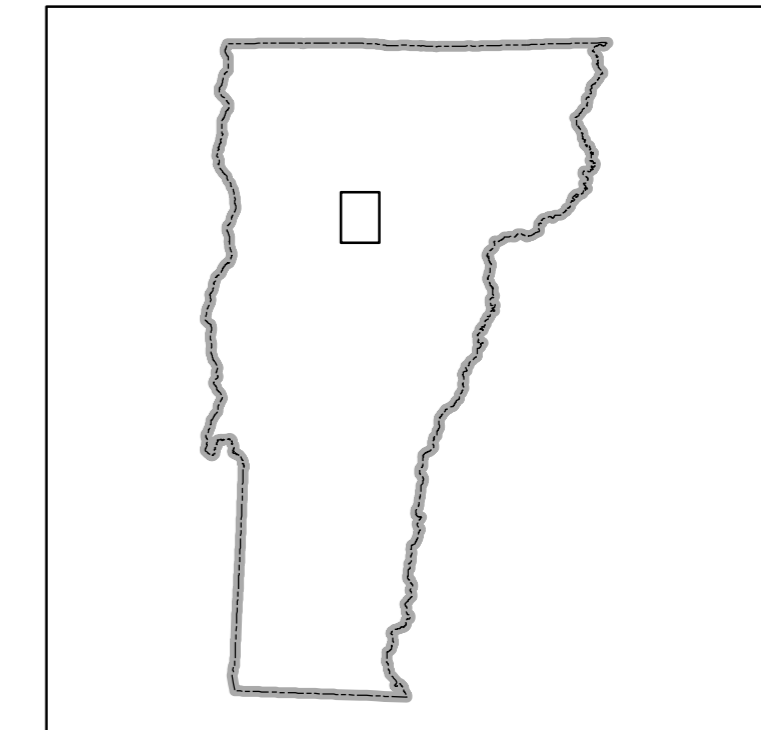
Map Symbols

- Strike and dip of dominant or earlier foliation (n)
- Strike and dip of crenulate or second cleavage (n+1)
- Fault, teeth on inferred upper plate
- Field Stations

Miscellaneous Symbols

- Field Area Boundary
- USGS 24K Quadrangle Boundaries

Location Map

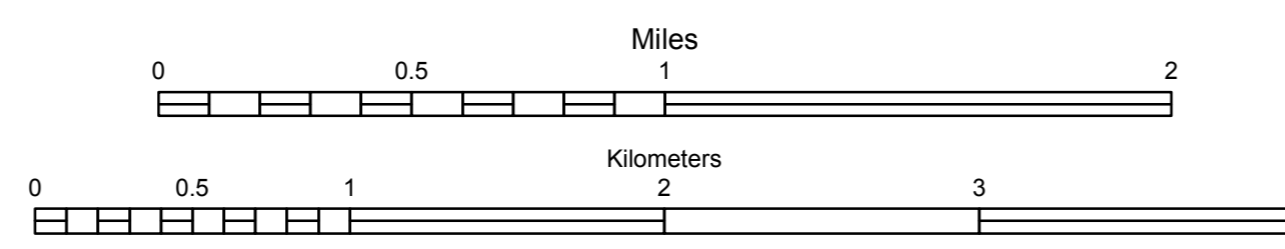


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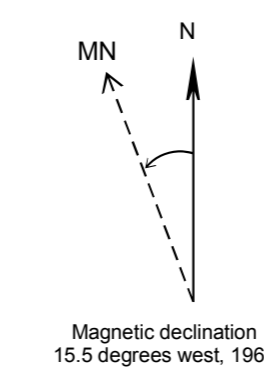
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Base map from U.S. Geological Survey. Quadrangle names printed in black and underlined. Coordinate System: Vermont State Plane, meters, NAD 83. Geographic coordinates shown at topo corners are in NAD 83. Grid overlay on map is Universal Transverse Mercator, Zone 18N, NAD 83.

Digital Cartography by J. Kim and M.H. Gale. Date: September 2006 (revised June 2011)

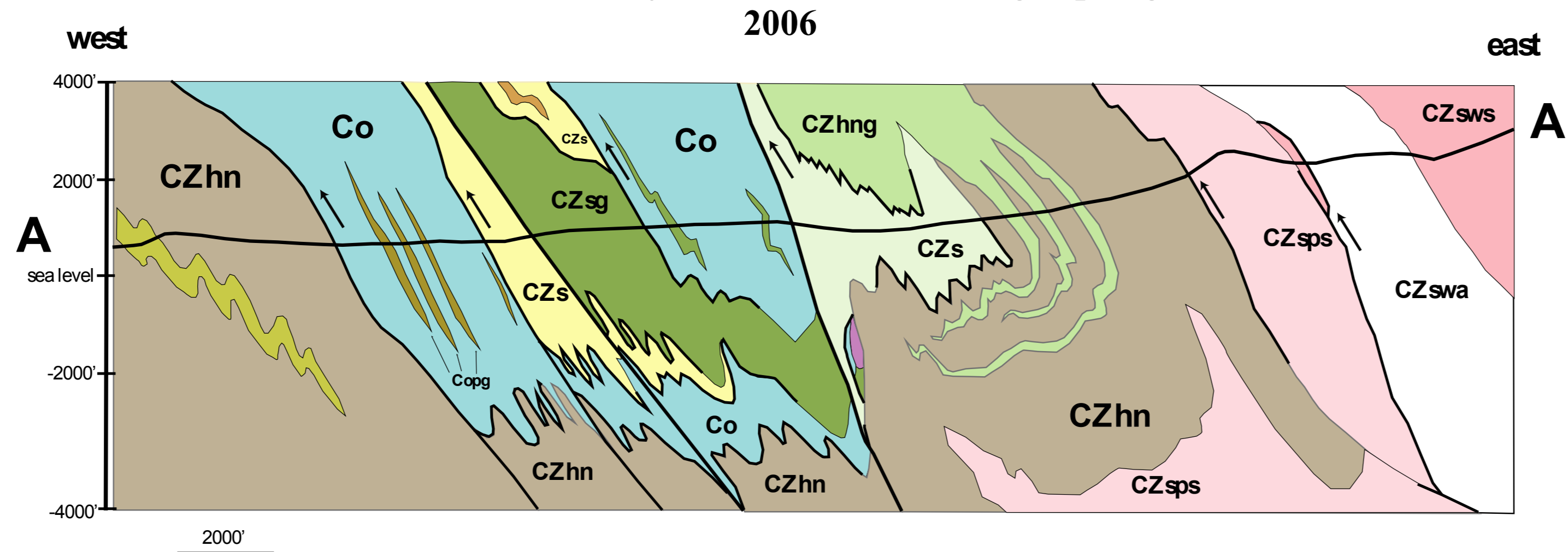


Contour Interval 20 Feet
Scale: 1:24,000



BEDROCK GEOLOGIC MAP OF THE WEST-CENTRAL WORCESTER MOUNTAINS WATERSHED, WATERBURY AND STOWE, VERMONT

by
Jonathan Kim, Marjorie H. Gale and George Springston
2006



Worcester Mountains from the Waterbury Reservoir.



Fall foliage at the end of the 2006 field season.



F2 Taconian (Ordovician) isoclinal folds in phyllitic granofels/quartzite in Ottawaquechee Formation (Co).



F3 Acadian (Devonian) folds in albitic schist of Hazens Notch Formation (CZhn).



S3 Acadian (Devonian) crenulation cleavage that overprints S2 Taconian (Ordovician) schistosity in albitic schist of Hazens Notch Formation (CZhn).