

DESCRIPTION OF MAP UNITS

- Kd** Cretaceous dike
- Ottauquechee Formation**
 - Co** Black phyllite: black, fine grained, carbonaceous, quartz-sericite-graphite phyllite with pyrite molds.
 - Cotb** Thatcher Brook Member: heterogeneous, rusty weathering muscovite-quartz-albite-chlorite-graphite schist with black and banded quartzites; associated with exotic greenstones, serpentinites, and talc schists; includes discontinuous chlorite-rich, albite rich, and graphite poor lenses.
- Mt. Abraham Formation**
 - CZa1** Fine grained, silvery tan to gray green, muscovite-paragonite-quartz-chlorite-chloritoid-garnet +/-magnetite schist with quartz veins.
 - CZa2** Fine grained, steel blue-gray to silvery tan muscovite -paragonite-quartz-chlorite-chloritoid-garnet +/-magnetite schist.
 - CZag** Greenstone: fine grained, light green to light yellow epidote-actinolite-chlorite-schist.
 - CZaw** Metawacke: coarse grained, weakly foliated, green gray, quartz-albite-muscovite-biotite +/-magnetite +/-pyrite granofels.
- Stowe Formation**
 - CZs** Schist: fine grained, silvery to dark green, quartz-muscovite-albite-chlorite +/-magnetite schist with quartz veins.
 - CZsg** Greenstone: homogeneous, fine grained, light green actinolite-albite-epidote-calcite-chlorite schist.
- Granville, Hazens Notch and Fayston Formations**
 - Cg/Czhnc*** Carbonaceous albitic schist: black, rusty weathering, medium grained muscovite-quartz-albite-chlorite-graphite +/-pyrite schist.
 - Cgl** Lincoln Gap Member: black rusty-weathering schist and quartzite.
 - CZhn** Greenstone: fine to medium grained, dark green, schistose chlorite-albite-epidote-calcite +/-pyrite +/-actinolite/- sphene greenstone.
 - CZhnig** Calcareous greenstone: Dirty brown weathering, porous, calcite-epidote rich greenstone grading into marble
 - CZf/Czhn*** White albitic schist: medium to coarse grained, massive to foliated, muscovite-quartz-albite-chlorite +/-biotite +/- garnet +/- magnetite schist.
 - CZfg** Greenstone: fine to medium grained, dark green, schistose chlorite-albite-epidote-calcite +/-pyrite +/-actinolite/- sphene greenstone.
- Pinney Hollow Formation**
 - CZph** Silvery green, fine to medium grained muscovite-quartz-albite-chlorite +/-magnetite schist with quartz veins and distinctive chlorite mineral lineation.
 - CZphg** Greenstone: fine to medium grained, fairly homogenous light green chlorite-albite-actinolite-epidote schist.
 - CZphq** Fine grained, white to light gray-green, well foliated quartz-albite-muscovite-schist to albitic quartzite.
 - CZphw** Metawacke: coarse grained, weakly foliated, green gray, quartz-albite-muscovite-biotite +/-magnetite +/-pyrite granofels.
- Ultramafic Rocks**
 - s** Serpentinite and talc-magnesite schist: dark green, dense, massive, serpentinite cut by fractures and veins filled with magnesite and limonite; soft, well foliated, light gray to tan talc-magnesite schist with rusty patches.

* denotes similar lithologic units mapped using different symbology

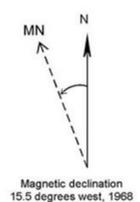
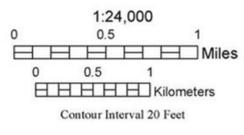
Symbols

- [] Strike and dip of F3 axial plane and S3 cleavage
- | Strike and dip of foliation (S2)
- - - - - Thrust Fault - teeth on upper plate
- Outcrop locations
- USGS Quadrangle Boundaries

Source of Geologic Data:

- Haydock, S.R., 1988, Tectonic geology of the Waitsfield-Warren area, central Vermont: Master of Science thesis, University of Vermont, Burlington, Vermont, 209 p.
- Walsh, G.J., 1992, Bedrock geology of the Fayston-Buels Gore area central Vermont: Vermont Geological Survey Special Bulletin No. 13, 74 p.
- Additional data is derived from field mapping by Dr. R.S. Stanley.

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.
 Digital Cartography by M. Gale
 Date: 2008



BEDROCK GEOLOGIC MAP OF THE WESTERN HALF OF THE WAITSFIELD, VERMONT 7.5 MINUTE QUADRANGLE

by
Samuel R. Haydock and Gregory Walsh

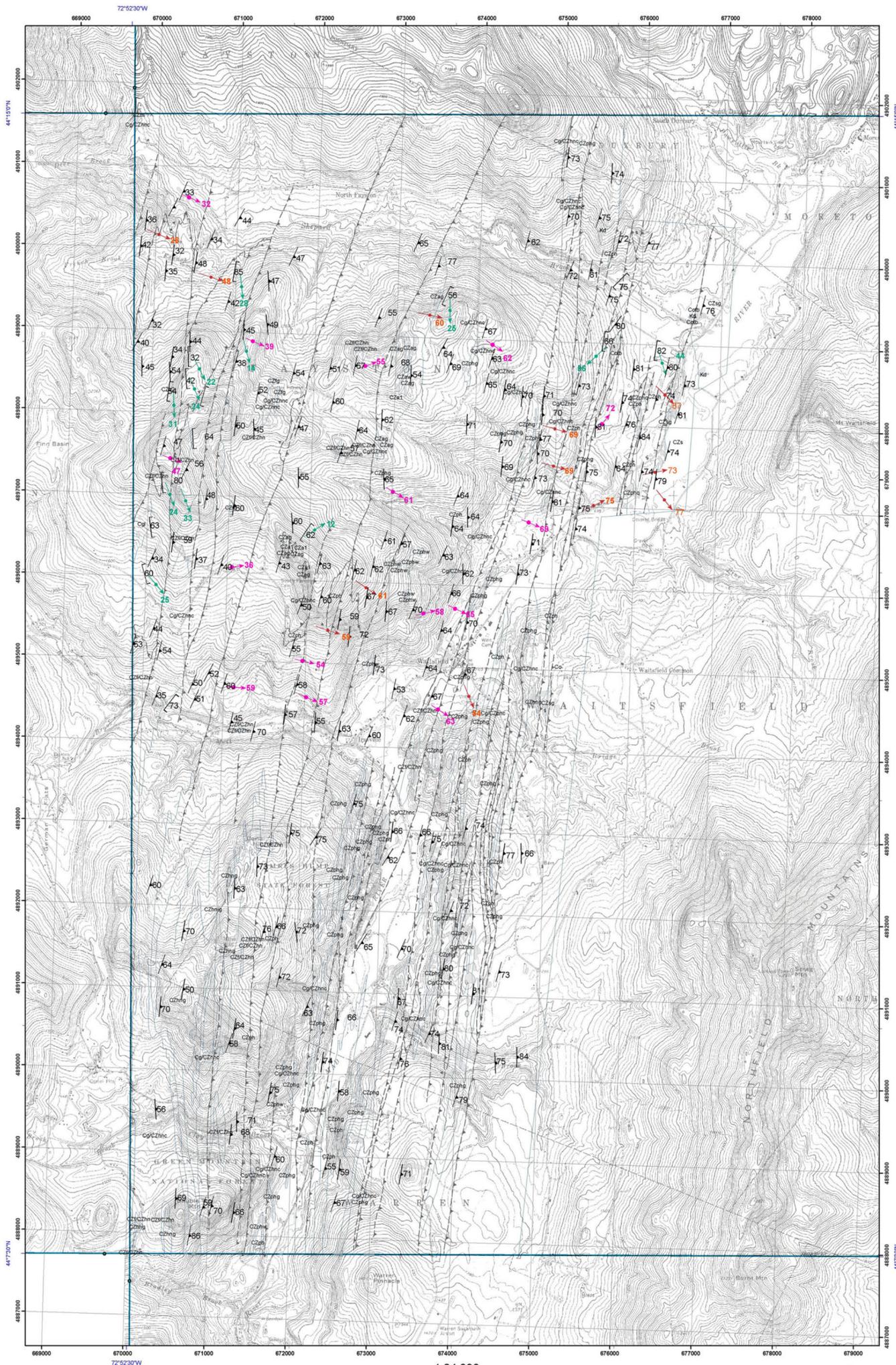
Compiled by Rolfe S. Stanley and Marjorie Gale, 1996
 Digitized by Thomas Merrifield and David Dreher, 1996

1996



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Legend

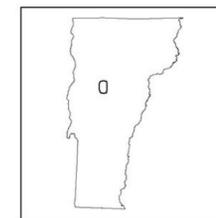
- Strike and dip of dominant schistosity (Sn)
- Strike and dip of crenulation cleavage (Sn+1)
- Trend and plunge of quartz rod (Ln)
- Trend and plunge of fold axis (Ln)
- Trend and plunge of fold axis (Ln+1)

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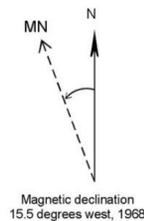
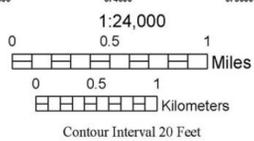
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**PLATE 2: BEDROCK GEOLOGIC MAP OF THE WESTERN HALF OF THE
WAITSFIELD, VERMONT 7.5 MINUTE QUADRANGLE - MINOR STRUCTURES**

by
Samuel R. Haydock and Gregory Walsh

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