

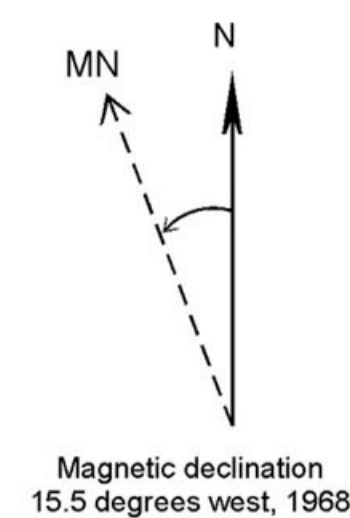
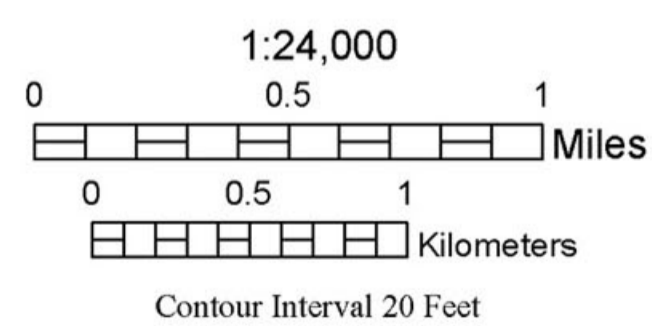


Legend

- Sweetsburg Formation**
- COs** Graphitic phyllite and/or black calcareous slate, locally with thin marble beds.
- Fairfield Pond Formation**
- CZfp** Greenish to greenish gray phyllite and phyllitic schist with fine bedding laminations; locally rusty weathering.
- Underhill Formation**
- CZu** Silver gray-green quartz - albite - chlorite - sericite schist with magnetite.
 - CZug** Greenstone Member: chlorite - albite - epidote - calcite - magnetite/ilmenite schist.
- Pinnacle Formation**
- CZp** Light gray quartz chlorite feldspar sericite +/- magnetite meta greywacke; detrital quartz and/or feldspar visible in outcrop; includes pebble conglomerates.
 - CZpu** Upper Member.
 - CZpc** Pebble and cobble conglomerate member.
 - CZpvc** Calcareous volcanic member: massive to foliated, volcanoclastic and basaltic calcareous greenstone; pitted on weathered surface due to carbonate.
 - CZpvt** Feldspathic volcanic member: olive-weathering, dark green feldspar - phyrlic chlorite - epidote +/- carbonate +/- magnetite metabasalt; characteristic splays of feldspar give the appearance of "chicken tracks."
 - CZpva** Amphibolitic member: chlorite - actinolite - epidote - albite +/- calcite +/- magnetite metavolcanic; stubby amphibole laths are characteristic.
- ▲--- Thrust Fault, teeth on upper plate.
- Outcrop Locations



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 data: Stone Environmental Inc.
 Digital Cartography by M. Gale
 Date: February 2008



Magnetic declination
 15.5 degrees west, 1968

Published by:
 Vermont Geological Survey
 Laurence Becker, State Geologist
 Department of Environmental Conservation
 Agency of Natural Resources
 103 South Main St., Logue Cottage
 Waterbury, VT 05671-2420
<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.
 The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. Government.

BEDROCK GEOLOGIC MAP OF THE UNDERHILL 7.5 MINUTE QUADRANGLE, VERMONT

by
**Barry Doolan, Lars Cherichetti, Jon Holt, Jeremy Ryan
 Carey Hengstenberg and Eric Rosencrantz**