

Description of Map Units

Ottaquechee Formation

cCo Rusty weathering dark gray to black carbonaceous pyritiferous phyllites with subordinate lithologies that include silvery gray and grayish green phyllites; gray, fine to medium grained, granular quartzites.

Jay Peak Formation

cZj Fine grained, light gray green quartz-chlorite-albite phyllitic schist and quartzite; white quartzofeldspathic layers alternate with green chloritic phyllitic layers.

Hazens Notch Formation

cZhn Gray and rusty, quartz-albite-sericite-chlorite graphitic schist with albite porphyroblasts and minor epidote, calcite, garnet, biotite and sphene; medium-grained, massive, light gray and green banded quartz-albite-muscovite gneiss with minor epidote, chlorite, sphene, and magnetite.

Fayston Formation

cZf Silvery green, medium grained, muscovite-quartz-albite-chlorite-garnet-magnetite schist with thin light gray quartzites.

Underhill Formation

cZun Silvery gray-green quartz-albite-chlorite-sericite ± magnetite schist and phyllite.

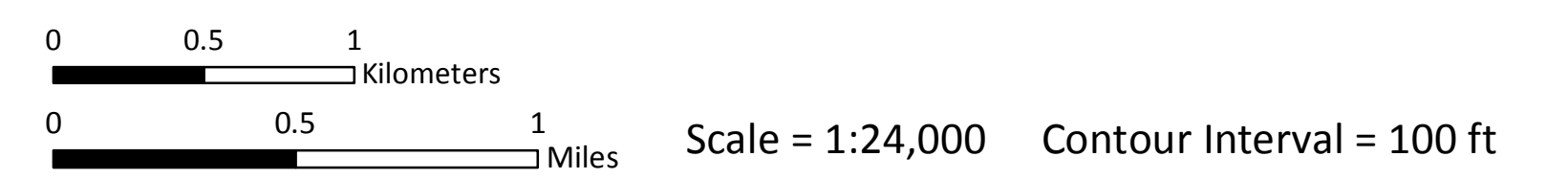
Ultramafic Units

cZu Massive, brown to white weathering, green, partially to completely serpentinized dunite and peridotite.

cZutc Talc-carbonate rock, quartz-carbonate rock, and steatite.

Description of Map Symbols

▲	Summits	●	Bedrock Outcrop Locations
---	Trails	—▲—	Early D ₂ (Taconian) Thrust Fault
—	Roads	—▲—	Late D ₂ (Taconian) Thrust Fault
□	Town Boundary	↑	F ₃ fold hinge
■	Lakes/Ponds	— —	Planar Features
—	Rivers/Streams		Bedding
□	County Boundary		Spaced/Crenulati... Cleavage
□	USGS 24K Quad Boundary		Dominant Foliation
—	Ski Area Trails		Fracture
—	Cross Section Line		



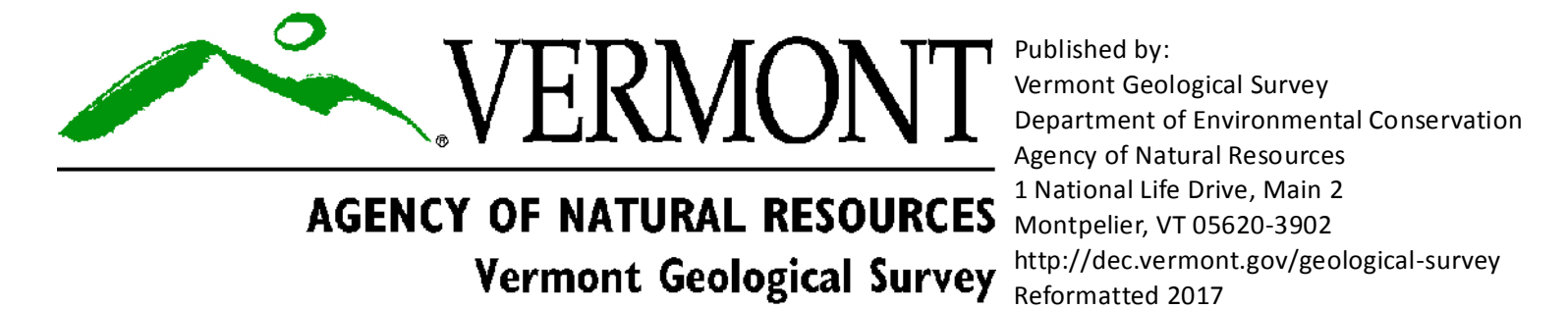
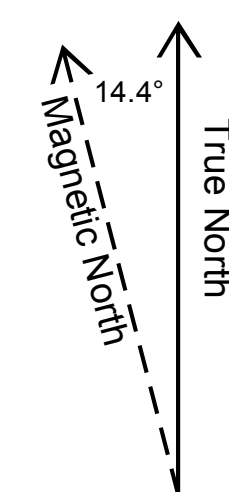
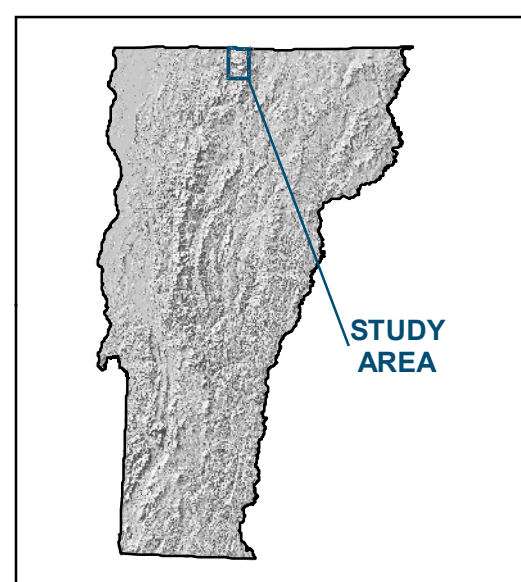
Coordinate System: Vermont State Plane, Meters, NAD 83.
Grid Overlay: UTM Zone 18N, NAD 83.
LIDAR base map from Vermont Center for Geographic Information.

COMPILATION BEDROCK GEOLOGIC MAP OF THE JAY PEAK 7.5 MINUTE QUADRANGLE, VERMONT

Vermont Geological Survey Open File Report VG99-1

Compiled by B. Doolan
from
Schoonmaker (1998) and Cady et al. (1963)

Digital Cartography by Colin Dowey (2017)



References:
Cady, W.M., Albee, A.L., and Chidester, A.H., 1963, Bedrock geology and asbestos deposits of the upper Missisquoi Valley and Vicinity, Vermont: U. S. Geological Survey Bulletin 1122-B, Contributions to Economic Geology, 78 p.

Schoonmaker, A., 1998, Bedrock geology of the western 1/3 of the Jay Peak 7.5 minute quadrangle, northern Vermont: VGS Open-File Report VG98-5, 2 plates, scale 1:24000.

Vermont Geological Survey, "Bedrock Outcrop Points Compilation" Layer, Hosted on the Vermont Open Geodata Portal. (<http://geodata.vermont.gov/datasets/VTANR::bedrock-outcrop-points-compilation>).

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.

Cross-Section

