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)

Description of Map Units

Ottawaquechee Formation
- 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
- Fine grained, light gray-green quartz-chlorite-muscovite schist and quartzite; white quartzfeldspathic layers alternate with green chloritic phyllitic layers.

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

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

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

Ultramafic Units
- Massive, brown to white weathering, green, partially to completely serpentinized dunite and peridotite.

Description of Map Symbols

- Summits
- Bedrock Outcrop Locations
- Trails
- Early D1 (Taconian) Thrust Fault
- Late D1 (Taconian) Thrust Fault
- Town Boundary
- Linear Features
- F3 fold hinge
- Lakes/Ponds
- Planar Features
- Rivers/Streams
- Bedding
- Spaced/Crenulation Cleavage
- County Boundary
- Ski Area Trails
- Dominant Foliation
- Cross Section Line
- Fracture

References

The geological map and text were compiled by the Vermont Geological Survey Open File Report O008-1 project, under the direction of the Vermont Geological Survey, State of Vermont, Department of Environmental Conservation. This map portrays the present state of knowledge of the geology of the area and is based on data collected during the project. The Vermont Geological Survey did not undertake any field work as part of this project. The map and its text are intended for informational purposes only, representing the official policies, either expressed or implied, of the U.S. Government.