



This geologic map was funded in part by the U.S.G.S. National Cooperative Mapping Program

Geology in the vicinity of the Hinesburg Thrust in the northwest quarter of this map modified from : Gillespie, D., 1975, Structure and Stratigraphy of the Hinesburg Thrust: M.S. Thesis, University of Vermont, 63 p.

Bedrock Geologic Map of the Hinesburg Quadrangle
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Lithologic Units	
	OCsk Skeels Corners Slate- Laminated black slate with thin orange dolostone beds
	Oba Bascom Formation- Dolostone, limestone, and marble; interbedded light gray to weathered dark gray dolostone, limestone, and marble with thin beds of calcareous sandstone
	Ocu Cutting Dolostone- Gray massively bedded dolostone
	Os Shelburne Marble- White, massively bedded, sucrosic marble with gray laminae
	OCcs Clarendon Springs Formation- Dolostone: Mottled light to dark gray, massively bedded dolostone with chert clasts, disseminated quartz grains, vugs, and quartz knots
	Cda Danby Formation- Dolostone and sandstone: interbedded buff to white cross-bedded dolomitic sandstone and quartzite, and buff to gray dolostone
	Cw Winooski Dolostone- Buff to gray medium to massively bedded dolostone
	Cm Monkton Quartzite- Interbedded red sandstone, red shale, and buff dolostone; lower parts are gray to white sandstone with quartz pebble beds
	Cdu Dunham Dolostone- Buff to light gray to white, thick-bedded dolostone and cyclically-bedded buff to pink dolostone
	Cc Cheshire Quartzite- White to buff, thin to thick-bedded quartzite with gray to brown argillaceous beds
	CZfp Fairfield Pond Formation- Light-gray to light-green quartz-sericite-chlorite phyllite +/- magnetite and biotite
	CZu Underhill Formation- Phyllite and schist member; silver green quartz-muscovite-chlorite schist and phyllite, commonly with albite and magnetite +/- dolomite. Local lenses of white to pale gray quartzite, quartz-albite granulite and quartz granule chlorite and/or biotite metawacke
	CZug Underhill Formation: Greenstone and Amphibolite member; thinly bedded, carbonate-albite-epidote greenstone and massive magnetite-albite-amphibole-biotite-epidote amphibolite, light to dark green fine to medium-grained, epidote-chlorite-albite-amphibole schist; dark green, coarse-grained, weakly foliated epidote-biotite-albite-amphibole amphibolite
	CZp Pinnacle Formation- Metagraywacke, schist and phyllite member: Quartz is commonly blue; local thin conglomeratic horizons; feldspathic biotite metawacke interlayered with lenses of quartz, feldspar, and gneiss pebble to cobble conglomerate
	CZpw Pinnacle Formation- Biotite metagraywacke member: Brown weathering, gray to dark gray, medium-coarse grained, massively bedded, chlorite-muscovite-biotite-feldspar-quartz metawacke with minor carbonate. Locally contains conglomeratic beds <1 m thick with well rounded quartz and gneiss pebbles (<5 cm), gray to green chloritic metawacke +/- biotite and chlorite-magnetite schist; local discontinuous pods of vein quartz and dolomitic interbeds
	CZps Pinnacle Formation- Schistose metagraywacke and phyllite member: undifferentiated light gray, massive, medium-grained quartz-sericite +/- chlorite, albite, dolomite metagraywacke; fine grained, gray or green epidote-quartz-quartz-chlorite-sericite phyllite and schist
	CZpv Pinnacle Formation- Undifferentiated volcanic and volcanoclastic rock member
	CZpva Pinnacle Formation- Amphibolitic greenstone member: Calcite-biotite-sphene-albite-actinolite-epidote-chlorite greenstone +/- sericite, apatite, pyrite and magnetite with dark green porphyroblasts of actinolitic hornblende
	CZpvc Pinnacle Formation- Calcareous greenstone member: Rusy weathering and pitted, dark green greenstone with laminae and splashes of calcareous material; locally interbedded with calcareous metagraywacke
	CZpvt Pinnacle Formation- Feldspathic greenstone member: Olive drab weathering, dark green, fine grained greenstone with remnant plagioclase feldspar phenocrysts up to 1.5 cm.
	md Mesozoic Dike
	bedrock outcrops
	thrust fault
	bedding
	first cleavage (n)
	second cleavage (n+1)