Bedrock Geologic Map of the Town of Craftsbury, Vermont

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Description of Map Units

**Devonian**

- New Hampshire Series Granite
  - Modified from Kings and Dennis (1986)
  - Medium- to fine-grained biotite granite
  - Contact modified from Kings and Dennis (1986)

-Sylurian-Devonian

- Wapsie River Formation
  - Brown weathering, gray phyllitic and biotite-schist rock
  - Developed with subordinate amounts of gray phyllic phyllite, blackish "schist"
  - Slightly weathered, with subequal amounts of phyllic phyllite and calcareous phyllite

- Shaw Mountain Formation
  - Brown weathering, arid, dolomitic shale

Ordovician

- Cambrian-Ordovician
  - Menominee Formation
    - Gray weathering, gray phyllitic gneissic, commonly with a "prismatic" texture
    - Phyllic pegmatite, quartz, and dolomitic marble, and chlorite

Explanation of Map Symbols

- Lithologic contacts
  - Approximate
  - Known
  - Faults
    - Thrust Fault - 1st Generation
    - Approximate
    - Known
  - Thrust Fault - 2nd Generation
    - Approximate
    - Known

- Unconformity

- Garnet Isograd
  - Modified from Kings and Dennis (1986)

- Outcrop Locations
  - Field Stations - this study
  - Selected Field Stations - Kings-Dennis (1986)

- Structural Symbols
  - Indominite foliation
  - Vertical dominant foliation

References


Published by: Vermont Geological Survey, 102 South Main St., Lyndonville, Vermont 05851, http://www.venv.state.vt.us/fox/geo/geo.html
Since structural symbols in Figure 1 have not yet been broken out by generation, Figure 2 is a simplified index map that shows the division of metamorphic rocks into Pre-Silurian and Silurian-Devonian lithologic packages. The Pre-Silurian rocks were deformed and metamorphosed by the Ordovician Taconian and Devonian Acadian orogenies whereas the Silurian-Devonian rocks were only affected by the Devonian Acadian Orogeny.
New Hampshire Series Granites

Waits River Formation- Marble Member (DSwrm)

Waits River Formation- Intercalated Member (DSwri)

Northfield Formation (Sn)

Shaw Mountain Formation (Ss)

Cram Hill Formation (Och)

Rustic weathering black phyllite interlayered with brown sandy marble. Sandy marble layers infolded with black phyllite layers. The marble appears as "fingers". Folds are going in and out of the outcrop face.


Interlayered black phyllites and phyllitic granofels/quartzites.

Light gray-white crystalline dolomitic marble similar to that reported by Konig and Dennis (1964) in this area.

Dark green mafic schist/greenstone (metamorphosed basaltic volcanic rock).

Grayish-green "pinstriped" granofels/quartzite. This appearance is caused by the alternating dark (chlorite-sericite) and light (quartz-albite) foliation layers.

Interlayered massive "pinstriped" granofels (under pen) and phyllitic "pinstriped" granofels.

References for Age Constraints: