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Bedrock Geology of the Montpelier Quadrangle

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Lithologic Units

- DSw** Waits River Formation- undifferentiated -: brown - gray punky weathering crystalline limestone (often sandy) and calcareous phyllites interlayered with dark gray, graphitic phyllite.
- DSmcl** Waits River Formation: massive sandy fine-grained crystalline limestone member.
- Sn** Northfield Formation: rusty-weathering, gray to black non-calcareous, graphitic + non-graphitic phyllites and slaty phyllites, frequently pyritiferous.
- Ss** Shaw Mountain Formation: rusty weathering, sulfidic, quartz pebble and cobble conglomerate that locally contains rock fragments), interlayered to the east with calcareous granofels, green feldspathic calcareous schists and greenstones.
- Ocheg** Cram Hill Formation: epidosite pod greenstone member.
- Och** Cram Hill Formation- undifferentiated: dominantly rusty-weathering black and gray phyllites that are interlayered with green phyllites, gray "pinstriped" granofels, quartzite, and tan granofels. Greenstones and metadiabases are abundant.
- Ochc** Cram Hill Formation-coticule member: sooty black weathering gray and green phyllitic granofels with thin disarticulated layers and pods of pink coticule, coticule is interlayered with massive greenstones and metadiabases, coticule layers form distinctive rods on foliation surfaces.
- Ochi** Cram Hill Formation- transitional member: interlayered foliated quartzite, gray phyllitic granofels, rusty-weathering gray and green phyllites, and thin beds of blue quartz pebble conglomerate; greenstones and metadiabases are abundant.
- Omp** Moretown Formation- Putnamville member: interlayered green phyllites, green and tan granofels, and green "pinstriped" granofels; layers of greenish-gray massive quartzite and quartz pebble conglomerate observed locally. Metadiabases and greenstones abundant.
- Omw** Moretown Formation- Worcester member: interlayered green and gray phyllites, quartzites, black phyllites and granofels; metadiabasic intrusives abundant.
- Omsr** Moretown Formation- Shady Rill member: interlayered green and gray phyllites, quartzites, black phyllites and granofels; meta-igneous rocks are absent.
- Ompb** Moretown Formation- Patterson Brook member: interlayered green phyllites, green and tan granofels, and green "pinstriped" granofels; layers of greenish-gray massive quartzite and quartz pebble conglomerate observed locally; meta-igneous rocks are absent.
- Omdh** Moretown Formation: Dumping Hill member: rusty-weathering, gray to black phyllites, gray phyllitic "pinstriped" granofels, dark gray quartzites, white-weathering laminated quartzite, vitreous quartzite, and blue quartz pebble conglomerate; meta-igneous rocks are absent.

Intrusive Igneous Rocks

- Dag** Adamant Granite: sills, dikes, and small plutons of tan-weathering fine-medium grained biotite granite, some larger bodies have a hornfels zone.
- OSdg** dark green to gray, massive, granular, round-weathering calcareous metadiabasic intrusives and greenstones with buff weathering rinds.

Thrust Fault

Outcrop location

RMC- Richardson Memorial Contact: Pre-Silurian/Siluro-Devonian Unconformity

bedding

dominant foliation in an outcrop

S dominant + 1