

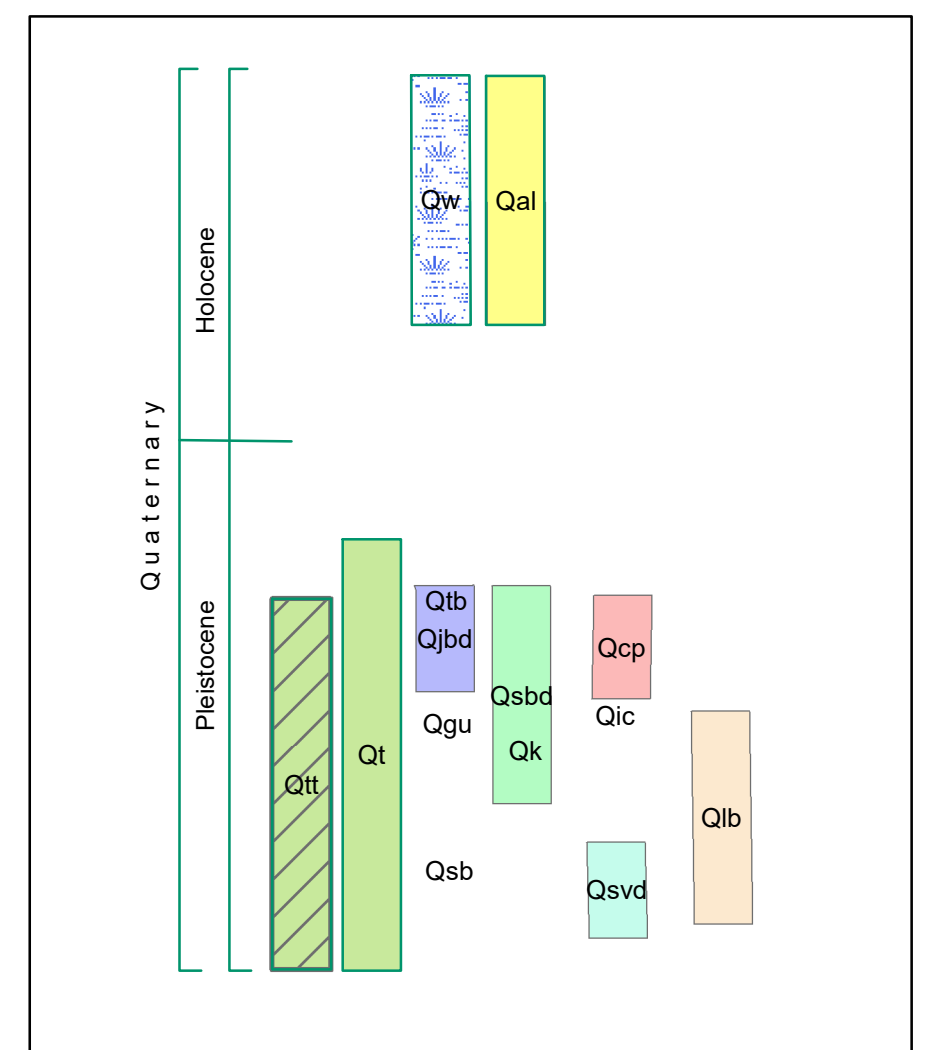
# Surficial Geologic Map of the Mt. Grace 7.5' Quadrangle, New Hampshire, 2019



## DESCRIPTION OF MAP UNITS

- Qw** Organic rich water laid sediments.
- w** water
- af** Artificial Fill/Disturbed Area
- Qal** Sand, silt, gravel and minor muck in flood plains along present rivers and streams. As much as 3 meters (10 feet) thick. Extent of alluvium indicates most areas flooded in the past which may be subject to future flooding. In places, indistinguishable from swamp deposits (w).
- Qcp** Sand and gravel with minor mud deposited either close to or down-valley from glacial ice as outwash. The deposit is graded southward to a divide at 324+ meters elevation and partly to a 306+meter elevation gap in the hills east of Buffum Hill. As much as 9 meters (30 feet) thick.
- Qjbd** Sand, gravel (pebbles to boulders) deposited along Jesse Brook proximal to and down-valley from the front of the ice-sheet at a stillstand in the Roaring Brook drainage.
- Qlb** Mostly sand and mud deposited into a glacial lake.
- Qsb** Sand and gravel deposited proximal to and down-valley from the front of the ice-sheet at a stillstand in the Roaring Brook drainage.
- Qsvd** Sand, silt, gravel, cobble and boulders likely deposited as outwash proximal to ice as the glacier front retreated northward within Sunny Valley. The deposits likely graded to meltwater spillways to the south (Grace Brook) and southwest (Lovers Retreat Brook).
- Qt** Light- to dark-gray, non-sorted to poorly-sorted mixture of clay, silt, pebbles, cobbles and boulders. Thickness varies but generally is less than 20 feet.
- Qtt** Light- to dark-gray, non-sorted to poorly-sorted mixture of clay, silt, pebbles, cobbles and boulders; contains some gravel. Thickness less than 10 feet.

## CORRELATION OF MAP UNITS



## EXPLANATION OF MAP SYMBOLS

- Meltwater Channel
- Esker
- Contact - Approximate Location
- Meltwater Spillway
- Moraine Ridge
- Ice Margin
- Stream
- Lidar Contours (20-foot intervals)
- Water well - Label indicates depth to bedrock.
- Exposure
- Roads**
  - Local Roads
  - Statewide Corridors - Divided Highways
  - Not Maintained

## Surficial Geology of the Mt. Grace 7.5' Quadrangle, New Hampshire



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 New Hampshire State Geologist: Frederick H. Chormann, Jr.

Surficial Geologic Map Open-File Series  
 GEO-204-024000-SMOF

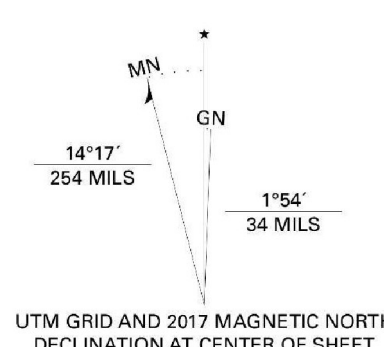
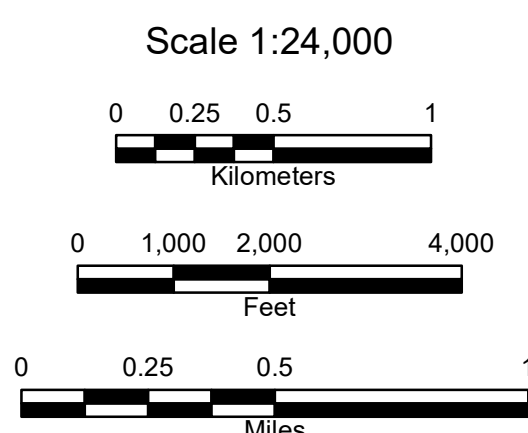
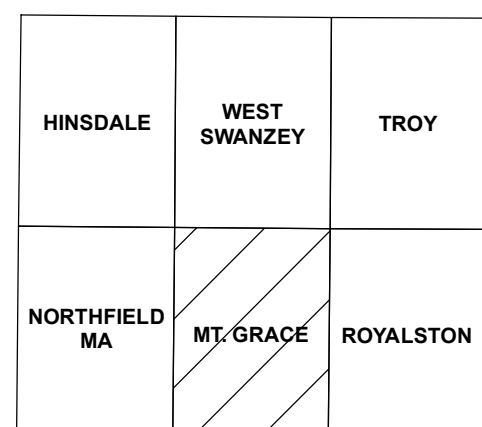
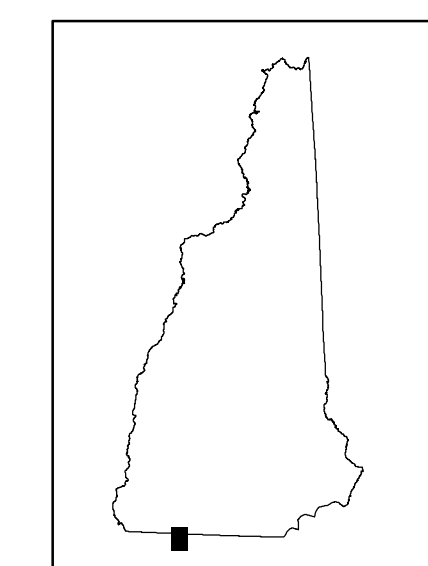
Maps are available at  
<https://des.nh.gov/land/geology>

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Topographic basemap developed from high resolution (1 meter) LIDAR data (hillshade and contours), National Hydrography Dataset and NHDOT roads data.

Projection: North American Datum 1983 New Hampshire State Plane Feet.