

EXPLANATION

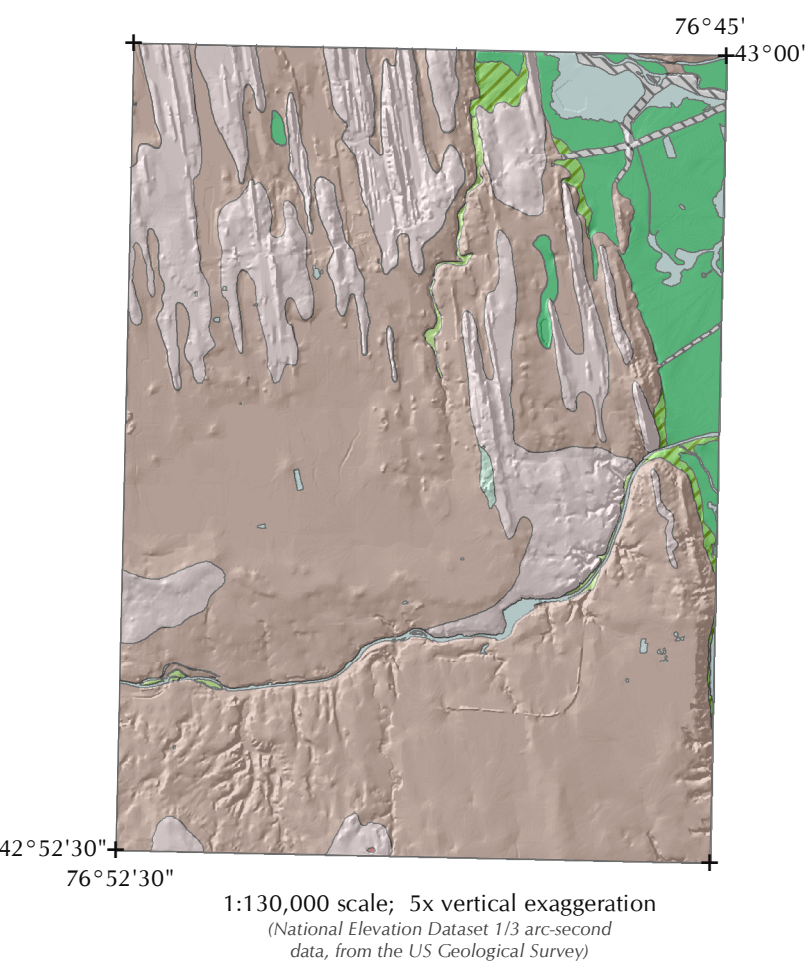
GEOLOGIC UNITS

- Artificial Fill
Surficial sediments composed of sand, gravel, and crushed rock anthropogenically transported and used for construction purposes.
- Wetland Deposit (Hw)
Peat, muck, clay, silt, and sand deposited in modern wetland environments. There is often a gradational change to alluvial or lacustrine deposits.
- Alluvium (Qa)
Sorted and stratified silt, sand, gravel, and cobbles deposited by rivers and streams. Alluvium includes channel, overbank, and fan deposits.
- Alluvial Delta (Ald)
Thickness 3-15 m. Well-sorted and stratified silt, sand, and gravel deposited at present lake shoreline.
- Lacustrine Sand (Pls)
Sorted and stratified sand and occasional gravel deposited in near-shore settings of paleolakes, including shorelines and deltas.
- Lacustrine Silt and Clay (Plsc)
Stratified silt and clay deposited in deepwater settings of paleolakes.
- Till (Pt)
Massive diamicton composed of sediments ranging in size from clay through boulders, deposited directly by glacial ice. Sediments are highly compacted due to deposition beneath glacial ice.
- Bedrock

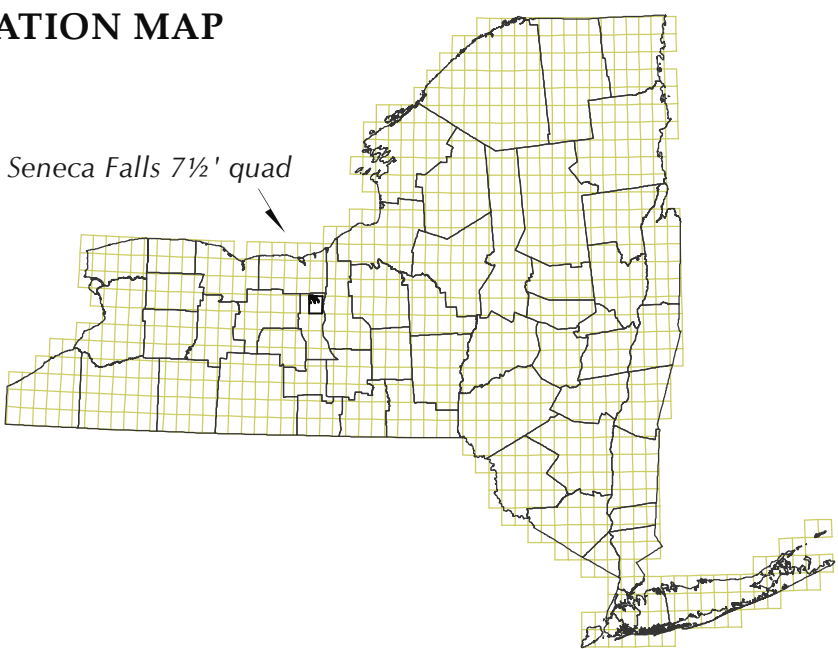
GEOLOGIC SYMBOLS

- Contact
- Ice margin
- Beach ridge

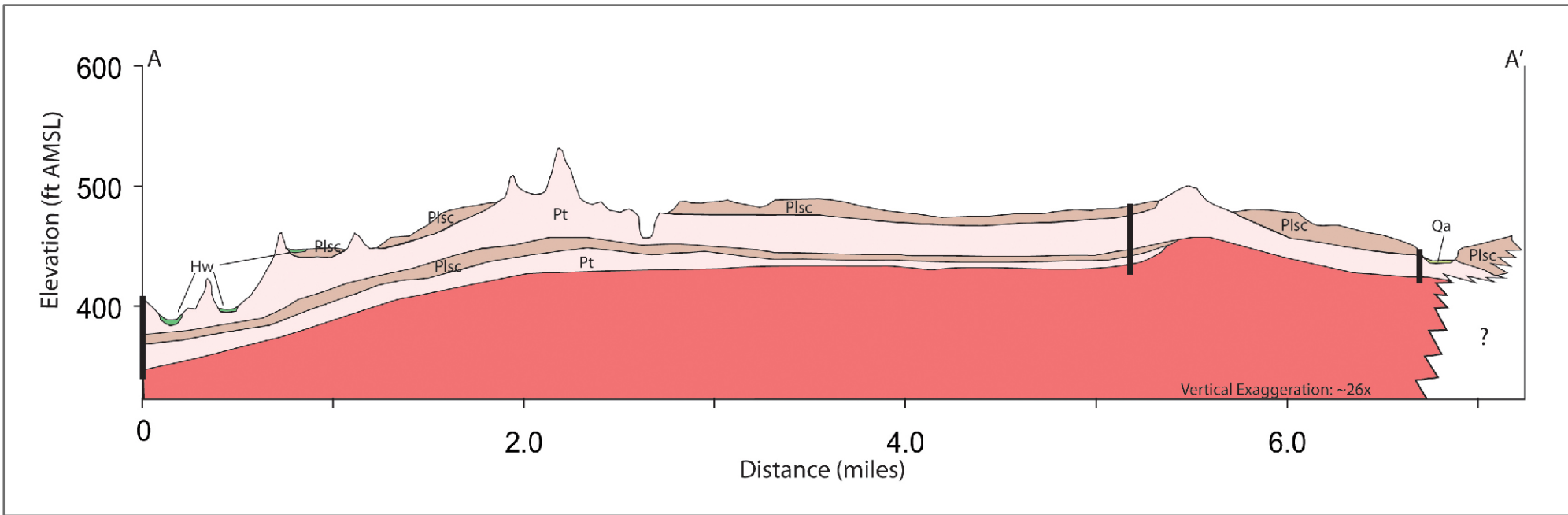
SHADED TERRAIN MAP



LOCATION MAP



CROSS-SECTION A-A'



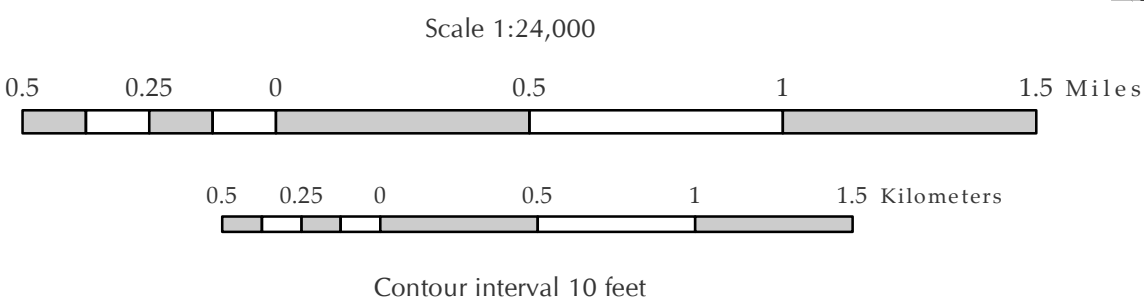
NOTICE
This geologic map was funded (in 2010) in part by the USGS National Cooperative Geologic Mapping Program.
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Universal Transverse Mercator, Zone 18
North American Datum of 1983

Elevation contours, hydrography, and planimetry layers from the New York State Dept. of Transportation Raster Quadrangle separate for the Seneca Falls and Cayuga 7 1/2' minute quadrangles. DOT edition dates 1978 (Seneca Falls) and 1981 (Cayuga); USGS contour dates 1953 (Seneca Falls) and 1954 (Cayuga).

Magnetic declination from the NOAA online Declination Calculator:
<http://www.ngdc.noaa.gov/geomagmodels/Declination.jsp>

Calculated declination 12.1°W for the year 2011, at the center of the map.



Surficial geologic mapping by B. Bird, 2010.
Digital data and cartography, J. Manchester, 2011.

SURFICIAL GEOLOGY OF THE SENECA FALLS QUADRANGLE, NEW YORK

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