New York State Museum

Clifford A. Siegfried, Director

New York State Geological Survey

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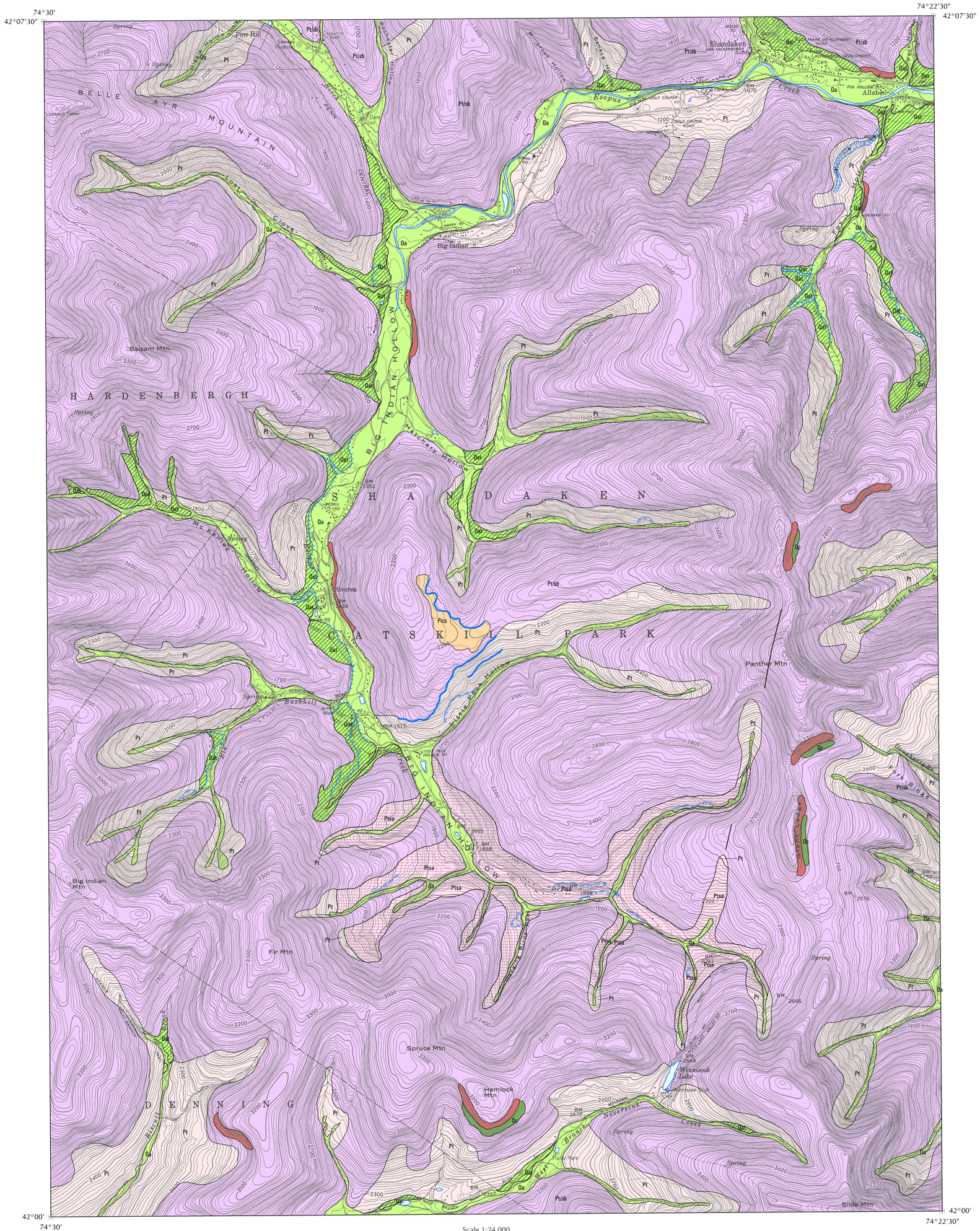


Scale 1:24,000

Contour interval 20 feet

UTM projection, Zone 18, NAD27 datum

Elevation contours, hydrography, and planimetry layers from the New York State Dept. of Transportation Raster Quadrangle separates for the Shandaken and Phoenicia quads: DOT edition date 1973, USGS contour date 1960.

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

MN TN

Calculated declination 13.3° W, for the year 2010, at the center of the map

0.5 0.25 0 0.5 1 1.5 Miles

0.5 0.25 0 0.5 1 1.5 Kilometers

Geologic mapping by Smith, Kozlowski, and Stefanik, 2009.

Surficial Geology of the Shandaken Quadrangle, New York

CA Smith, AL Kozlowski, and PA Stefanik, 2010

UNITS

Alluvium (Qa)
Well-sorted and stratified sand, gravel, and cobbles deposited by rivers and streams. Alluvium includes channel, over-bank, and fan deposits.

Colluvium (Qc)
Poorly sorted sand, gravel, cobbles, and boulders transported down-slope by gravitational processes. Colluvium is composed predominantly of sediments reworked from till and includes all types of mass wasting, including falls, slides, and flows.

Alluvial Terrace (Qat)
Well-sorted and stratified sand, gravel, and cobbles deposited by rivers and streams flowing at levels higher than modern levels. Alluvial terraces may include channel, overbank, and fan deposits.

Ice-contact Stratified Drift (Pics)
Well-sorted and stratified sand, gravel, and cobbles, deposited in contact with former glaciers. Stratified drift includes kames, kame moraines, and kame terraces.

Sub-aqueous Till (Ptsa)
Massive diamicton composed of sediments ranging in size from clay through boulders, deposited directly by glacial ice. Sub-aqueous till is generally sandier and less compact than basal till due to deposition in a proglacial lake.

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.

Till with shallow bedrock (Pt/sb)

Bedrock
Local bedrock composed of nearly horizontally bedded siltstone, sandstone, and conglomerates.

GEOLOGIC SYMBOLS

Contact

Fault

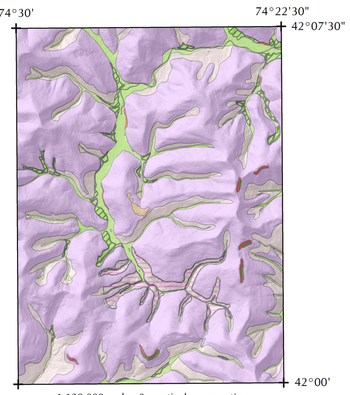
Ice margin

Slump scarp

Erosional scarp

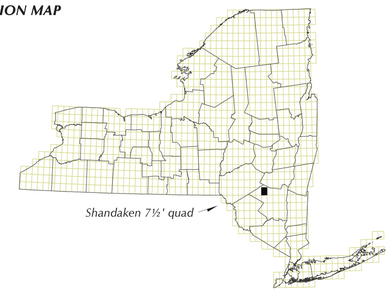
Meltwater channel

SHADED TERRAIN MAP -- Shandaken Quadrangle



1:130,000 scale; 2x vertical exaggeration
(National Elevation Dataset 1/3 arc-second data, from the US Geological Survey)

LOCATION MAP



NOTICE

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