

SURFICIAL GEOLOGY OF THE LIVINGSTONVILLE 7.5-MINUTE QUADRANGLE, ALBANY, GREENE AND SCHOHARIE COUNTIES, NEW YORK

prepared by
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DESCRIPTION OF MAP UNITS

Holocene

Af	Artificial Fill (Af) This unit is generally composed consists of coarse-/to-fine, materials such as large cement mounds and/or crushed rock , which have been transported anthropogenically transported and used for construction purposes.
Ha	Stratified silt, sand and gravel (Ha) Sorted and stratified silt, sand, and gravel, deposited by rivers and streams. May include cobbles and boulders. Inferred as post-glacial alluvium and includes modern channel, over-bank and fan deposits
Hw	Wetland Deposit (Hw) Peat, muck, marl, silt, clay or sand deposited in association with wetland environments. Various sediments can be present at transitional boundaries from one facies to another
Hdc	Diamict Colluvium (Hdc) Unsorted and unstratified deposit of gravel, sand, silt, clay, with boulders/cobbles possible. Described as a mass-wasting deposit at the base of steep hillslopes and cliffs as part of a slump or hillslope failure.

Pleistocene

Plsc	Silt and Clay (Psc) Stratified, fine-grained sediment consisting of fine sand, silt and clay size particles. Inferred to be deposited in mid shore to deepwater settings of glacial lakes. May include marl, rythmites, and varves.
Psg	Stratified sand and gravel (Psg) Well-sorted and stratified sand and gravel. May include cobbles and boulders. Inferred to be delta, fan or lag deposits in glacial channels or near former ice margins.
Pics	Cobbles to Sand (Pics) Stratified, ice contact deposits, variable coarse-grained sediment consisting of boulders to sand size particles. Inferred to be deposited along an ice margin. May include, interbedded coarse lenses of gravel and clast-supported diamicton (flow till).
Pd	Diamicton (Pd) An admixture of unsorted sediment ranging from clay to boulders. Generally matrix-supported, massive and clast-rich.
Pdcs	Diamicton (Pdcs) An admixture of unsorted sediment ranging from clay to boulders. Generally clast-supported, massive and clast-rich.

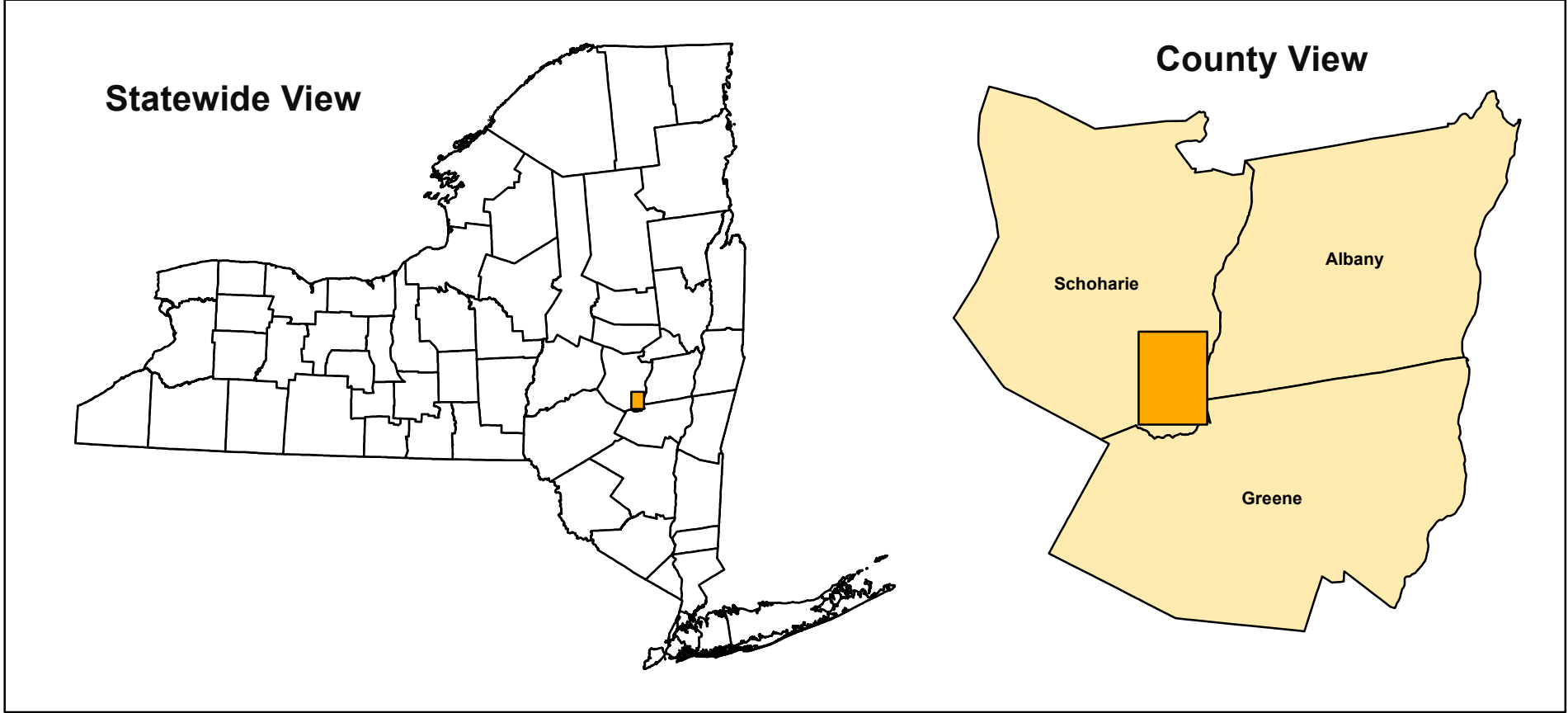
Pre-Pleistocene

Br	Bedrock (Br) Non-glacially derived, hard rock, Paleozoic in age. May be covered up to a meter in diamicton, sand and gravel, or sand and clay in areas marked as Br.
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SYMBOLS

— Street	~ Stream	⊙ Drumlin
— Highway	~ Contour	⋯ Esker
— County Line	⊕ NYSGS Borehole Location	⋯ Meltwater Channel
Water Body	⊕ NYSDOT Boring Location	⋯ Moraine
	⊕ NYSEDEC Water Well Location	

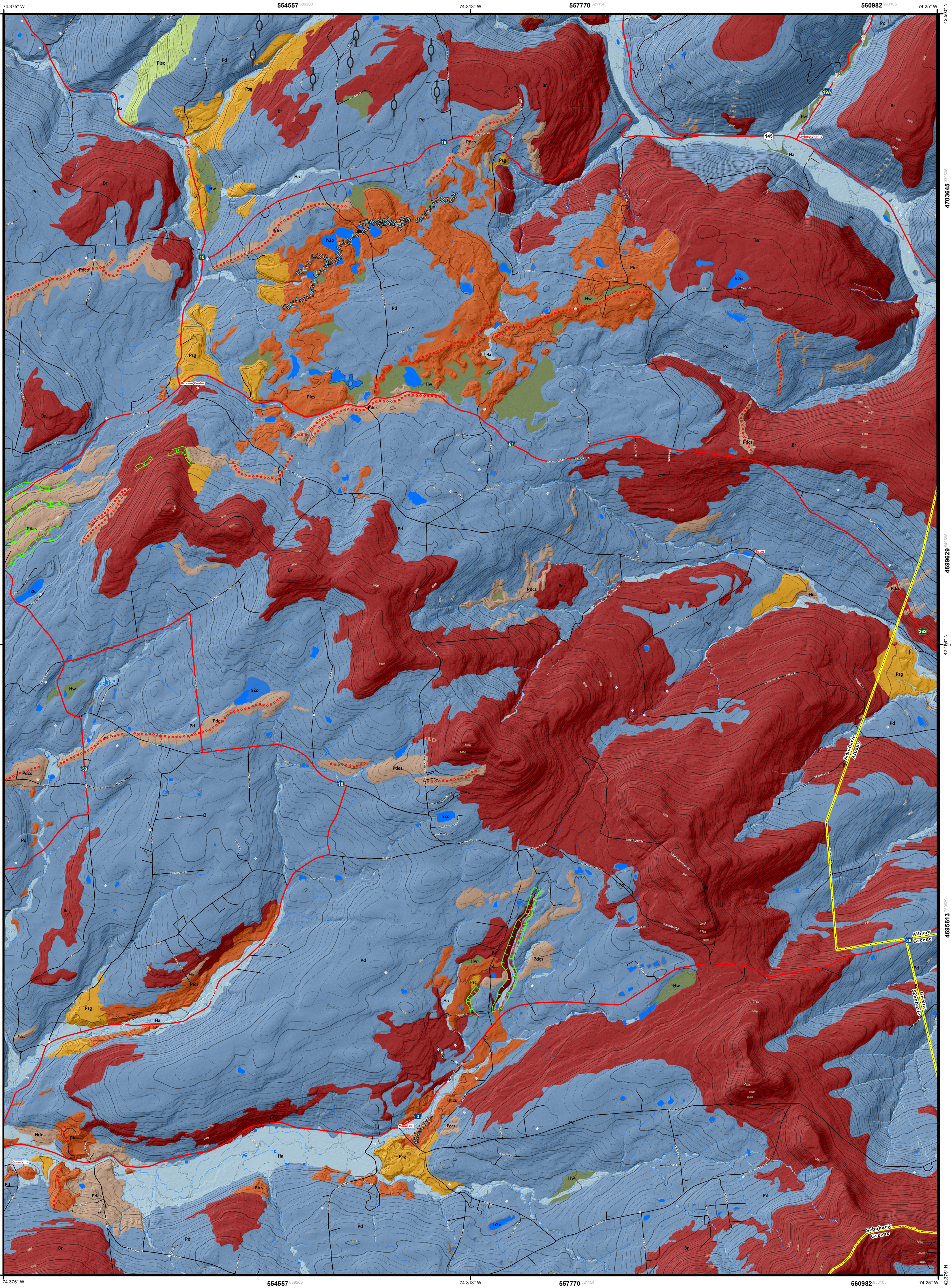
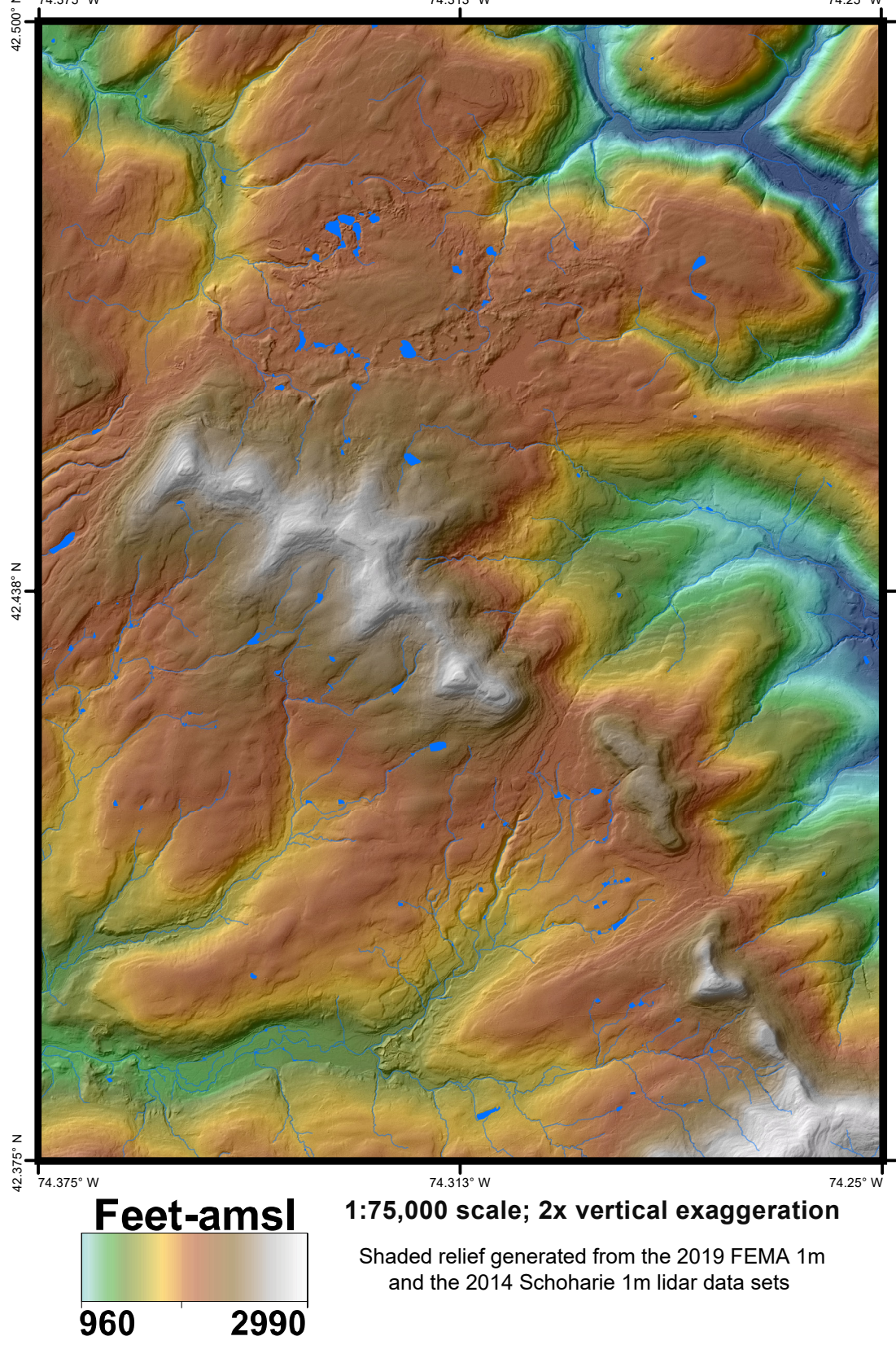
QUADRANGLE LOCATION



ADJOINING QUADRANGLES

Brookhaven	Middleburgh	Romaneville
Gloversville	Livingstonville	Durham
Prattville	Ashland	Watsonville

QUADRANGLE ELEVATION



Universal Transverse Mercator, Zone 18 N
North American Datum of 1983

Hydrology, and planimetry layers from the
New York State DOT Master Quadrangle separates for Albany, Greene
and Schoharie Counties
(https://nys.gov/geo/data/layer/member.cfm?OrganizationID=108)
Geographic data layers from 2021 TIGERLine shapes for transportation
and hydrography
(https://www.census.gov/geopl/bn/geo/shapfiles/index.php)

Shaded relief from 2019 FEMA 1m and the 2014 Schoharie 1m lidar data sets
(https://nys.gov/geo/relief/index.cfm)

Magnetic declination from the NOAA online Declination Calculator:
http://www.ngdc.noaa.gov/geomag-web/#declination

Geologic mapping by K. Backhaus, S. Giesing, R. Frieman
and A. Kozlowski, 2021-22
Digital data and cartography: R. Frieman
and K. Backhaus, 2022

SCALE 1:24,000
1 0.5 0 1 2
1000 500 0 1000 2000
METERS

1 0.5 0 1
1000 500 0 1000 2000
FEET

CONTOUR INTERVAL: 10 FEET

UTM GRID AND 2019 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

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2024

NOTICE
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