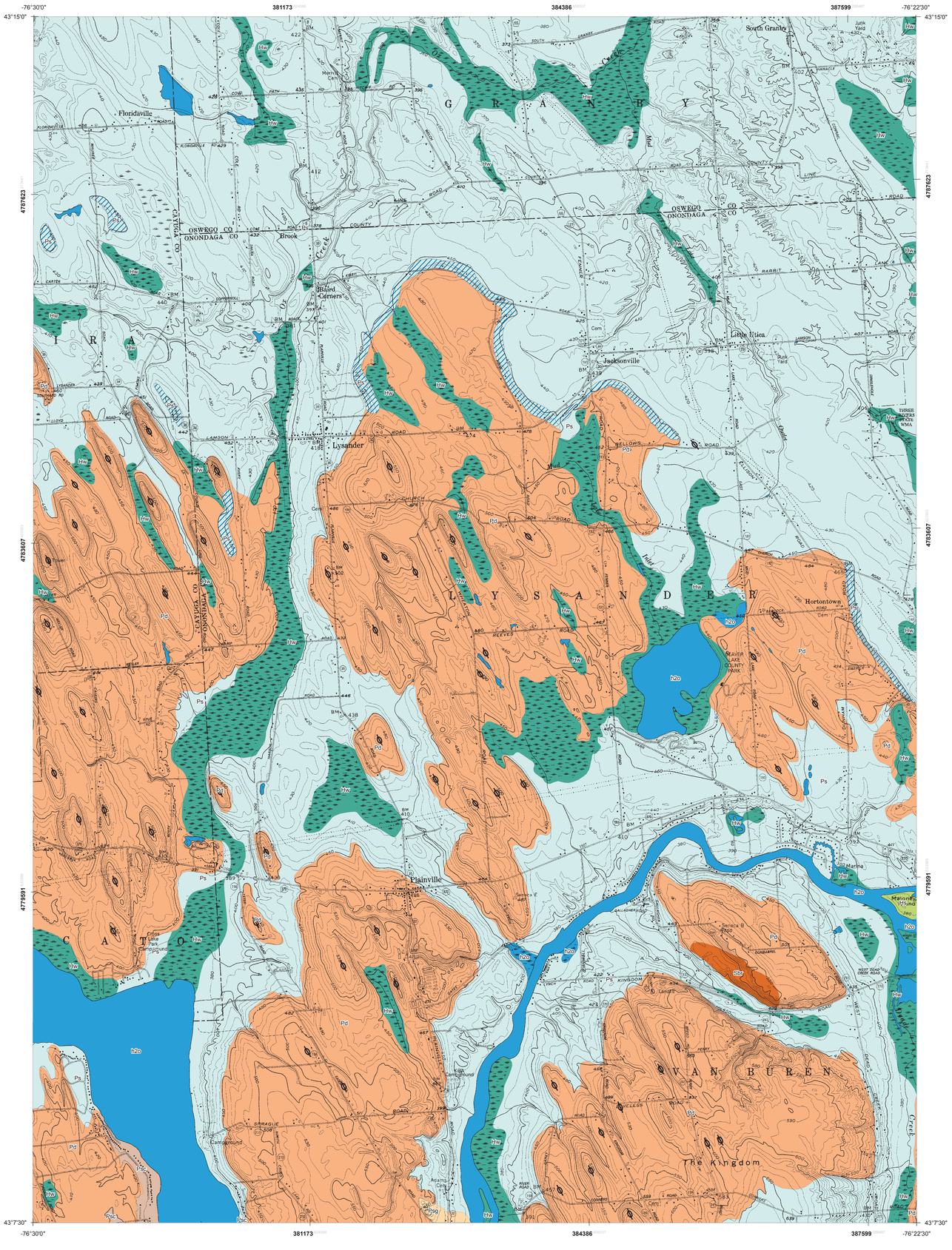
New York State Museum
Mark Schaming, Director

NYSGS
NEW YORK State Museum

New York State Geological Survey
Andrew L. Kozlowski, Acting Associate State Geologist



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

Elevation contours and planimetry layers from the New York State Dept. of Transportation Raster Quadrangle separates for Lysander 7½ minute quad. DOT edition date 1989, USGS contour dates 1955. Hydrography from the National Hydrography Dataset, U.S. Geological Survey.

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

MN GN 12°24' 0°58.4'

UTM grid convergence (GN) and 2013 magnetic declination (MN) at center of map

Scale 1:24 000

1 ½ 0 1 MILES

1 0.5 0 1 KILOMETER

Contour interval 10 feet

Geologic mapping by D.L. Pair, 2013
Digital data and cartography by D.L. Pair and B. Bird, 2013

SURFICIAL GEOLOGY OF THE LYSANDER QUADRANGLE, ONONDAGA COUNTY, NEW YORK

DONALD L. PAIR
2013

EXPLANATION

Water

Holocene

Hw — **Wetland Deposit (Hw)**
Peat, muck, marl, silt, clay, or sand deposited in association with wetland environments. Various sediments can be present as transitional from one facies to another.

Hs — **Stratified silt, sand, and gravel (Hs)**
Well sorted and stratified silt, sand, and gravel, deposited by rivers and streams. May include cobbles. Inferred as post-glacial alluvium, it includes modern channel, over-bank, and fan deposits.

Pleistocene

Psc — **Silt and Clay (Psc)**
Stratified fine sediment consisting of silt and clay. Inferred to be deposited in deepwater settings of glacial lakes. May include rhymites and varves.

Ps — **Stratified silt, sand, and gravel (Ps)**
Well sorted and stratified sand, and gravel, deposited by rivers and wave action. May include cobbles. Inferred as lake shore deposits, delta or fan deposits in glacial lakes.

Ps — **Stratified silt, sand, and gravel (Ps)**
Well sorted and stratified sand, and gravel, Inferred as lake shore deposits

Psg — **Stratified Sand, Gravel, and Cobbles (Psg)**
Well sorted and stratified sand, gravel, and cobbles. Inferred to be deposited in contact with, or close proximity to, former glaciers. Stratified drift includes kames, kame terraces, outwash, and heads of outwash.

Pd — **Diamicton (Pd)**
An admixture of unsorted sediment ranging from clay to boulders.

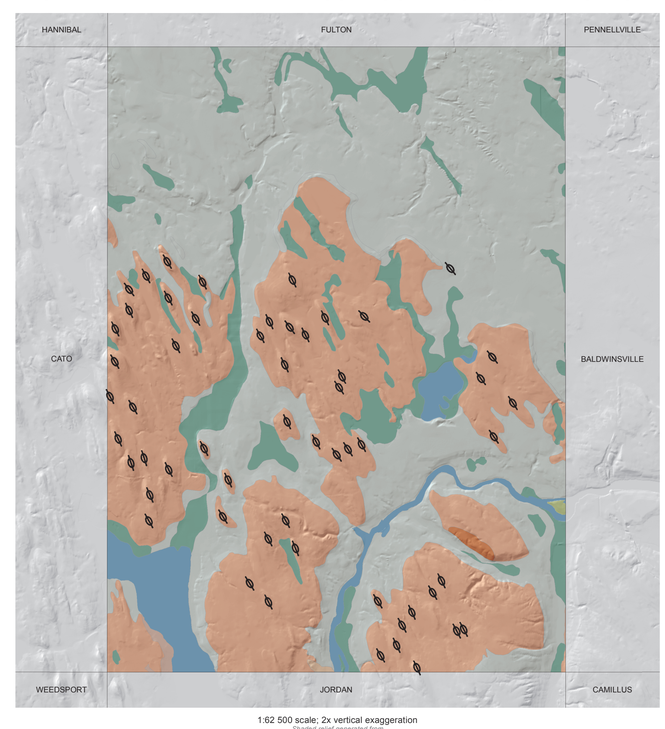
Pre-Pleistocene

Sbr — **Bedrock (Sbr)**
Silurian aged sedimentary rocks exposed or within 1m of the surface

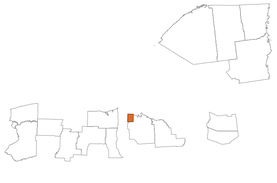
GLACIAL LANDFORM SYMBOLS

Drumlin

SHADED TERRAIN MAP AND SURROUNDING QUADRANGLES



1:62 500 scale; 2x vertical exaggeration
Shaded relief generated from the National Elevation Dataset 1/3 arc-second data from the US Geological Survey.



NOTICE
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QUADRANGLE LOCATION