

# SURFICIAL GEOLOGY OF THE SAVANNAH 7.5-MINUTE QUADRANGLE, SENECA AND WAYNE COUNTIES, NEW YORK

prepared by  
Brian C. Bird, Andrew L. Kozlowski, and Karl J. Backhaus

Supported in part by the U.S Geological Survey's  
National Cooperative Geologic Mapping Program Great Lakes Mapping Coalition Award Number G11AC20514

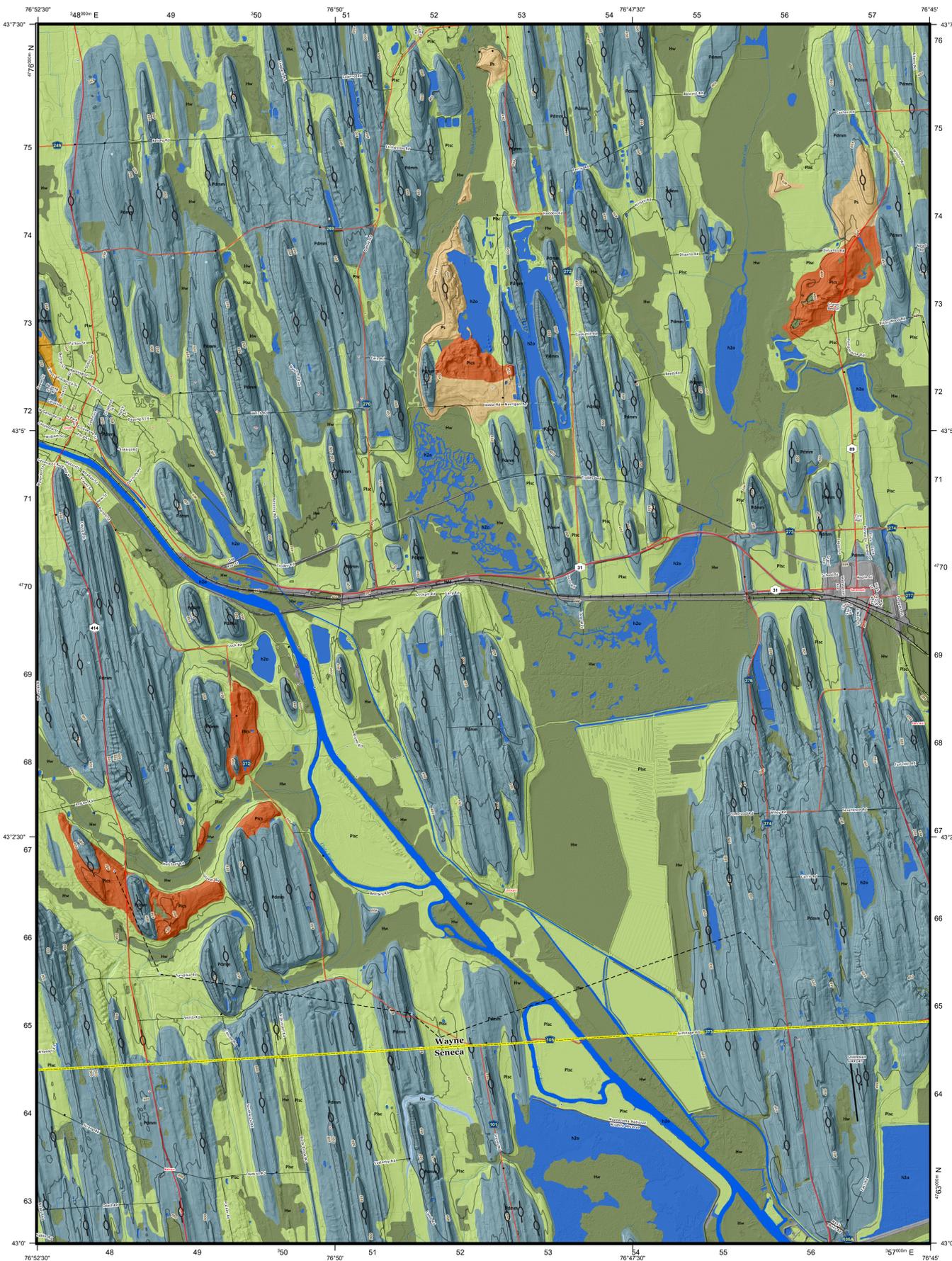
## DESCRIPTION OF MAP UNITS

### Holocene

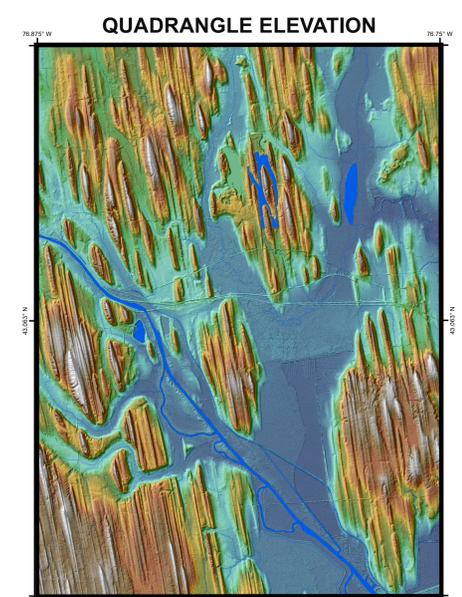
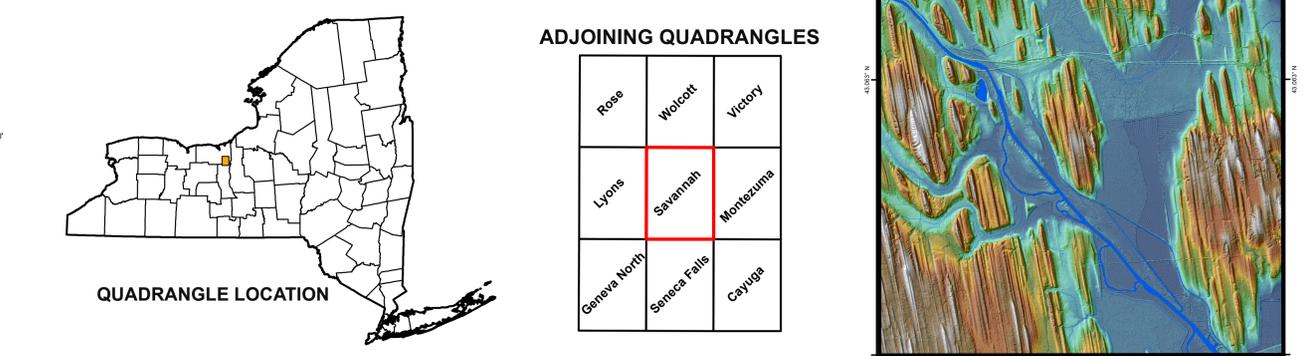
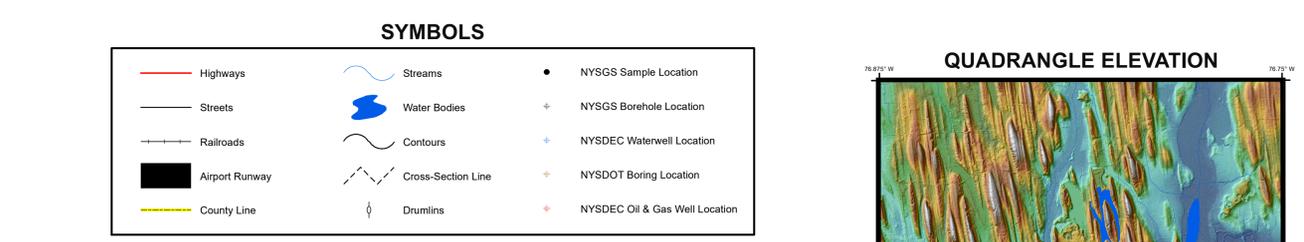
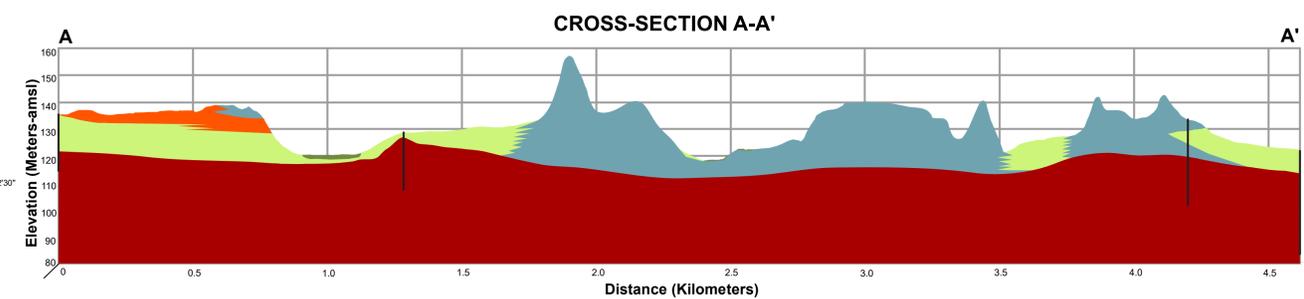
- Af** **Artificial Fill (Af)**  
Surficial sediment composed of coarse/fine and or crushed rock anthropogenically transported and used for construction purposes.
- Ha** **Stratified silt, sand and gravel (Ha)**  
Sorted and stratified silt, sand, and gravel, deposited by rivers and streams. May include 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

### Pleistocene

- Ps** **Stratified Sand (Ps)**  
Well sorted and stratified sand, deposited by fluvial, lacustrine or eolian processes. Inferred as deposits associated with distal glacial environments.
- Plsc** **Silt and Clay (Plsc)**  
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.
- Pics** **Cobbles to Sand (Pics)**  
Stratified ice contacted 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 diamictons (flow tills).
- 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 ice margins.
- Pdmm** **Diamicton (Pdmm)**  
An admixture of unsorted sediment ranging from clay to boulders. Generally matrix supported, massive and clast-rich.



43°30' N  
76°52'30" W  
76°50' W  
76°47'30" W  
76°45' W  
43°30' N  
75  
74  
73  
72  
43°5' N  
71  
70  
69  
68  
67  
66  
65  
64  
63  
43°0' N  
76°52'30" W  
76°50' W  
76°47'30" W  
76°45' W



Universal Transverse Mercator, Zone 18 N  
North American Datum of 1983  
Geologic mapping by A. Kozlowski, J. Leone, S. Staley and B. Spowiler, 2015.  
Digital data and cartography by K. Backhaus and B. Bird, 2015 and 2018.  
UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

# SURFICIAL GEOLOGY OF THE SAVANNAH 7.5-MINUTE QUADRANGLE, SENECA AND WAYNE COUNTIES, NEW YORK

Andrew L. Kozlowski, Brian C. Bird, and Karl J. Backhaus.  
2018

**NOTICE**  
This geologic map was funded in part by the USGS National Cooperative Geologic Mapping Program Great Lakes Mapping Coalition award number G11AC20514 in the year 2011.  
The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily presenting the official policies, either expressed or implied, of the U.S. Government.  
While every effort has been made to ensure the integrity of this digital map and the factual data upon which it is based, the New York State Education Department ("NYSED") makes no representation or warranty, expressed or implied, with respect to its accuracy, completeness, or usefulness for any particular purpose or scale. NYSED assumes no liability for damages resulting from the use of any information, apparatus, method, or process disclosed in this map and text, and urges independent site-specific verification of the information contained herein. Any use of trade, product, or firm names is for descriptive purposes only and does not imply endorsement by NYSED.