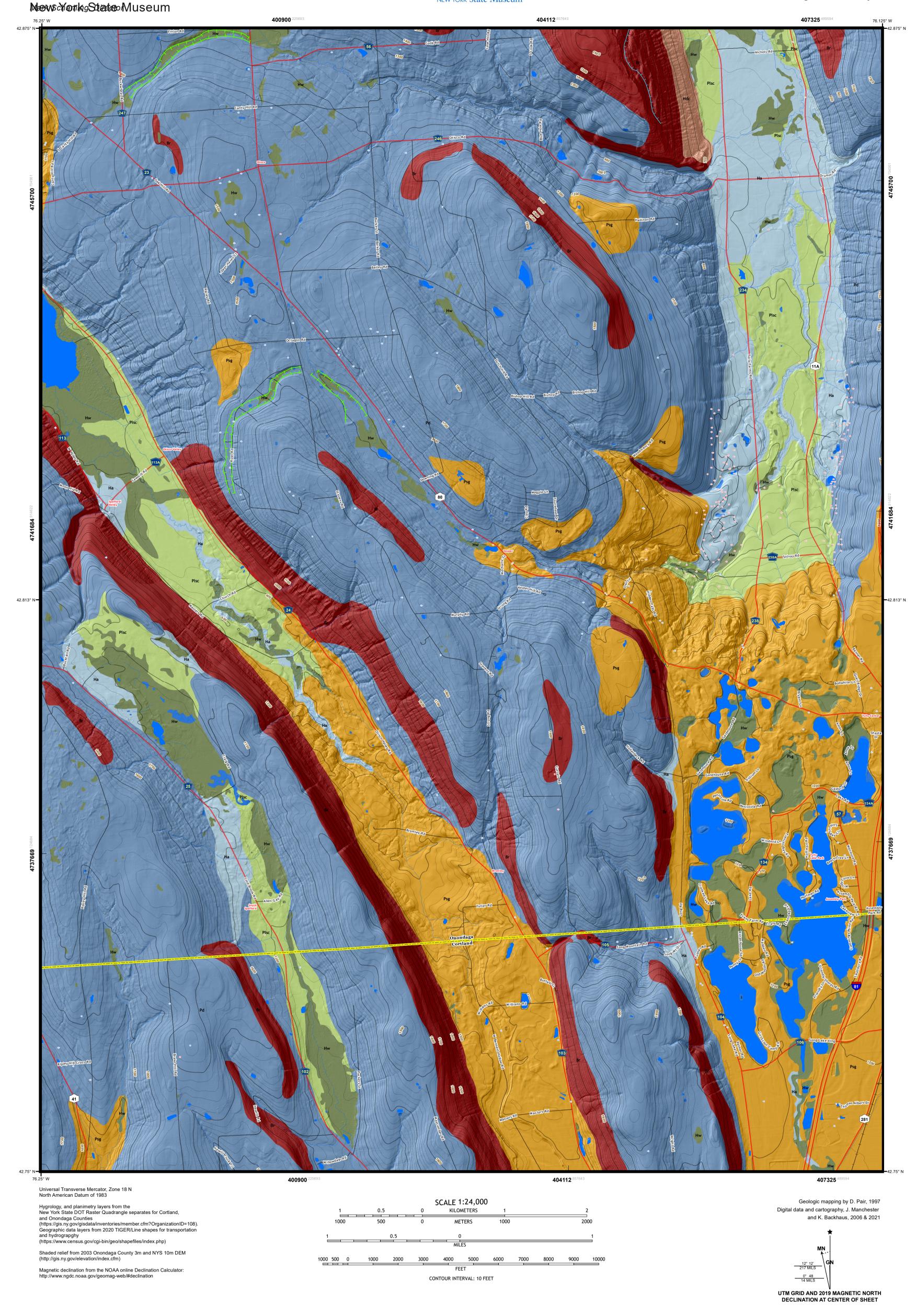
New York State Geological Survey



SURFICIAL GEOLOGY OF THE OTISCO VALLEY 7.5-MINUTE QUADRANGLE, CORTLAND AND ONONDAGA COUNTIES, NEW YORK

Donald L. Pair

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prepared by
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Supported in part by the U.S Geological Survey Cooperative Agreement Number 01HQAG0052 National Cooperative Geologic Mapping Program (STATEMAP)

DESCRIPTION OF MAP UNITS

Holocene

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

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

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 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.

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).

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.

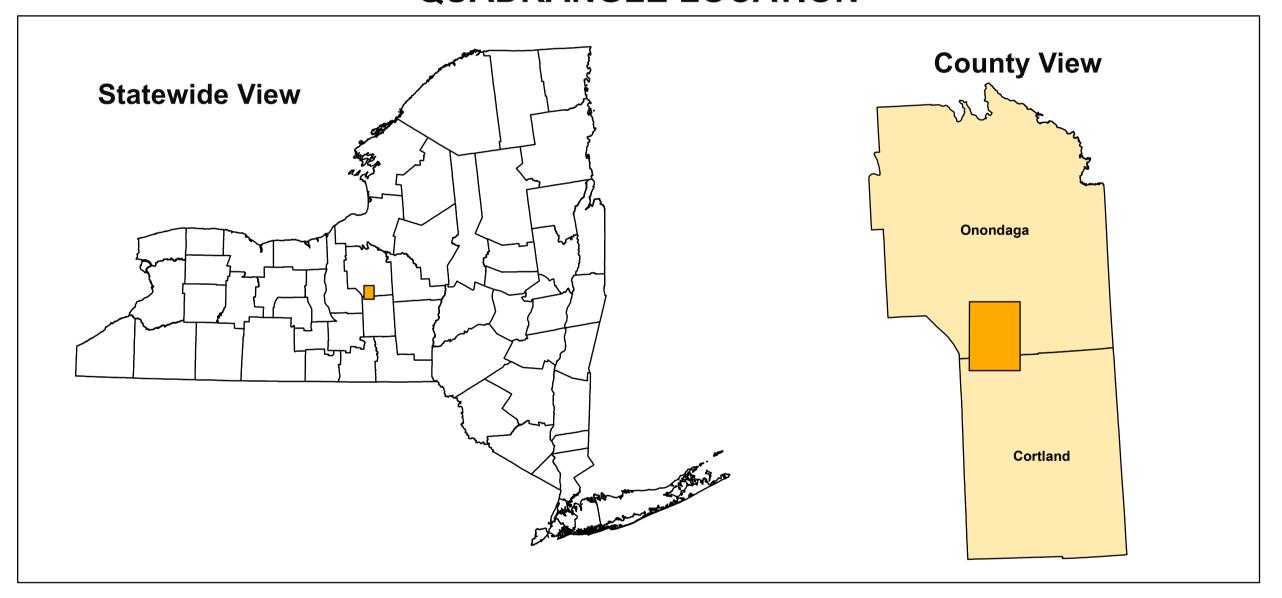
An admixture of unsorted sediment ranging from clay to boulders. Generally matrix supported, massive and clast-rich.

Pre-Pleistocene

Bedrock (Br)

Non-glacially derived, hard rock, pre-pleistocene in age. May be covered up to a meter in diamicton, sand and gravel, or sand and clay in areas marked as Br.

QUADRANGLE LOCATION



ADJOINING QUADRANGLES

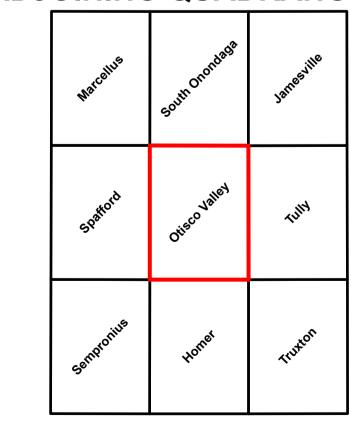
SYMBOLS NYSDOT Boring Location NYSDEC Oil and Gas Well Location Meltwater Channels

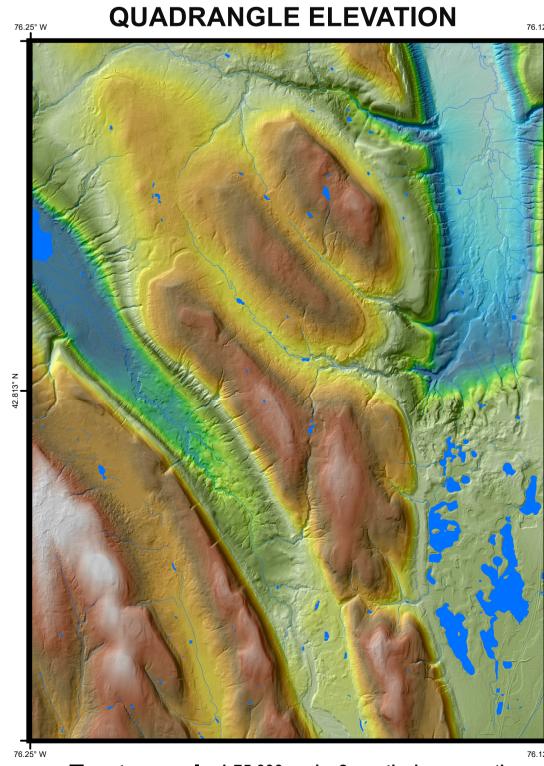
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This geologic map was funded in part by the USGS National Cooperative Geologic Mapping Program STATEMAP award number 01HQAG0052 in the year 2002.





ISSN:0097-3793 ; ISBN:978-1-55557-243-X

Feet-ams 1:75,000 scale; 2x vertical exaggeration Shaded relief generated from 2003 Onondaga County 3m and NYS 10m lidar data sets.

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