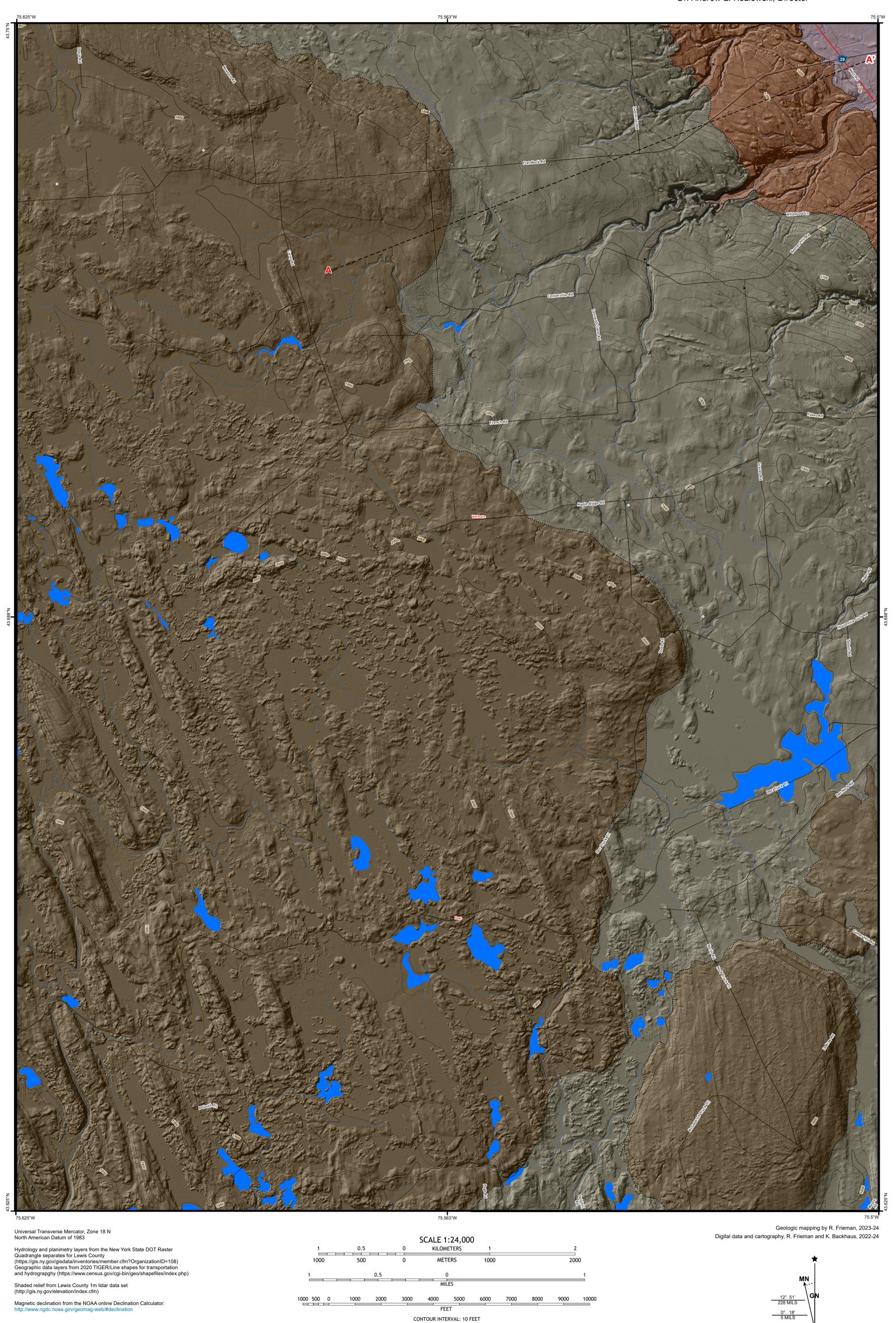
New York State Museum & Science Service

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New York State Geological Survey

Dr. Andrew L. Kozlowski, Director

UTM GRID AND 2023 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET



BEDROCK GEOLOGY OF THE PAGE 7.5-MINUTE QUADRANGLE, LEWIS COUNTY, NEW YORK

Richard A. Frieman 2024

BEDROCK GEOLOGY OF THE PAGE 7.5-MINUTE QUADRANGLE, LEWIS COUNTY, NEW YORK

Karl J. Backhaus and Richard A.Frieman

Supported in part by the U.S Geological Survey's National Cooperative Geologic Mapping Program STATEMAP Award Number G22AC00366

DESCRIPTION OF MAP UNITS

Late Ordovician

Ungrouped Formations



Oswego Formation

Massive, grey, fine-grained quartz sandstone with few thin shale partings. Some cross-bedding. Up to 35m thick. Fossils absent. Interpreted to have been deposited in a high-energy, nearshore environment.

Lorraine Group



Whetstone Gulf Formation

Dark grey to black shale with minor fine sand laminations. Coarsens upwards. Up to 65m thick. Few fossils. Interpreted as the gradational shallowing from the deep water deposition of the Utica Shale.



Utica Shale Formation

Black to grey, fissile to massive, shales and calcareous mudstone. Up to 230m thick. Graptolites common. Deposited in the quiescent depths of an anoxic to euxinic basin.

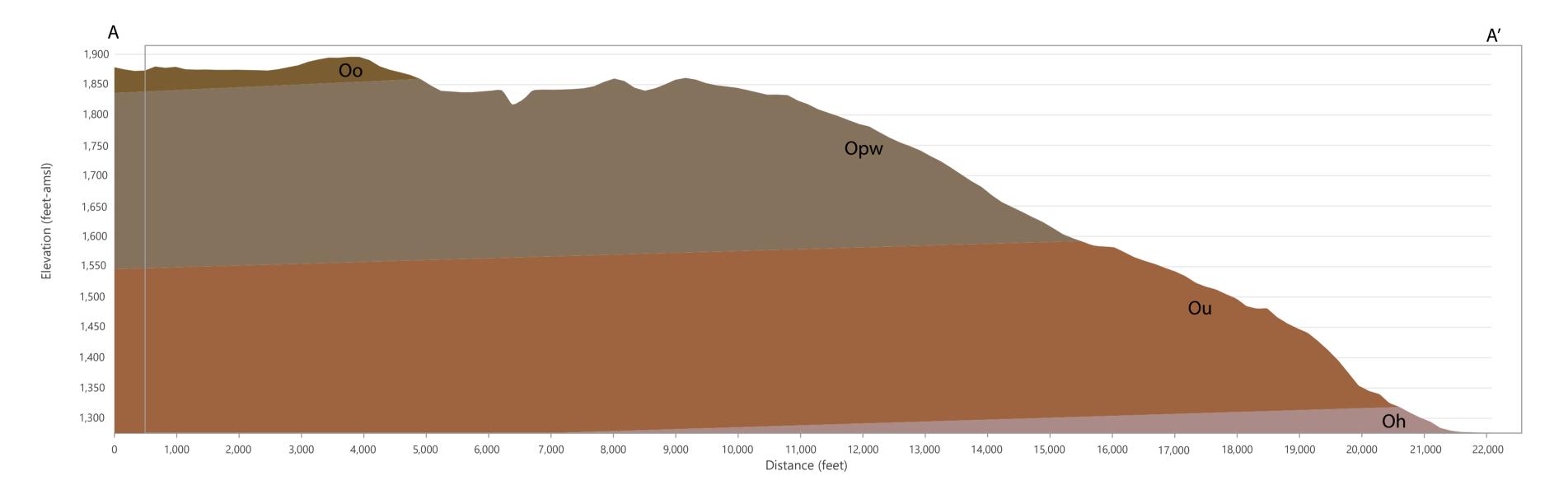
Trenton Group

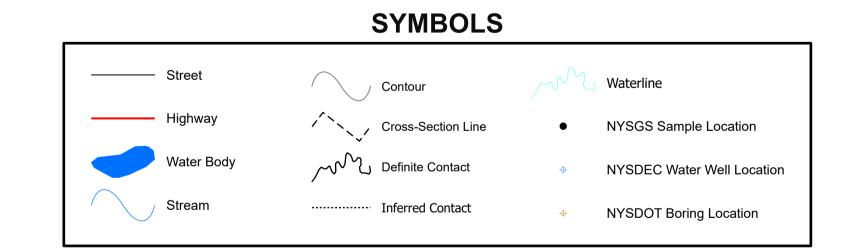


Hillier Limestone

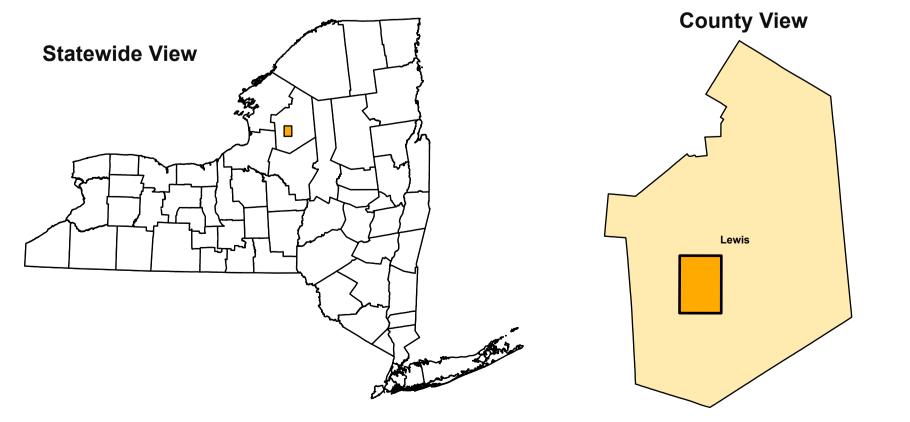
Wavy-beddzed argillaceous calcarenite and nodular wackestones with interbedded shales.

CROSS-SECTION A-A'

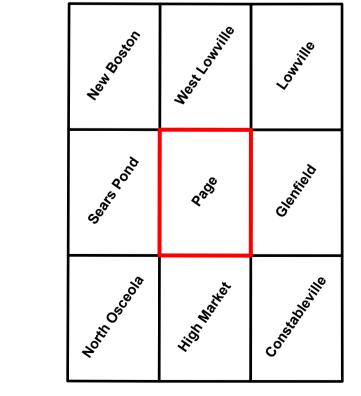




QUADRANGLE LOCATION



ADJOINING QUADRANGLES



NOTICE

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Page 1.75,000 scale; 2x vertical exaggeration

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Shaded relief generated from the 2019 FEMA and

2022 Lake Ontatio/Hudson River 1m lidar data sets