

Shaded-relief base from U.S. Geological Survey 3D Elevation Program (3DEP)
1-meter digital elevation model (DEM)
Elevation data from U.S. Geological Survey 3DEP 1-meter DEM
Tunnel data and drainages from New York City Department of Environmental Protection
streets from New York State Geographic Information System Program Office
Transverse Mercator projection
North American Datum of 1983

SCALE 1:15,173

1 1/2 0 1000 2000 3000 4000 5000 6000 7000 FEET 1 MILE

1 .5 0 1 KILOMETER



NEW YORK

MAP LOCATION

Geology from Fluhr and Terenzio (1984).
Well locations and data from the U.S. Geological Survey (2021).
National Water Information System database and from this study.
GIS database and digital cartography by Michael L. Noll.
Manuscript approved for publication December 20, 2022.

EXPLANATION

- Unconsolidated sediments—**
Quaternary

Dh **Hamilton Group—**Devonian

Do **Onondaga Limestone—**Devonian

De **Esopus Shale—**Devonian

Dsh **Helderberg Group—**Devonian

Sb **Binnewater Sandstone—**Silurian

Ss **Shawangunk Formation—**Silurian

Ou **Martinsburg Formation—**Ordovician

Inclined bedding—Showing approximate strike and direction of dip

Contact

Thrust fault—Sawteeth on upper plate, pointing towards hanging wall

850 feet
70 feet

Land surface topography—Elevation in feet above NAVD 88.
Black-lined area indicates no data

Study area boundary

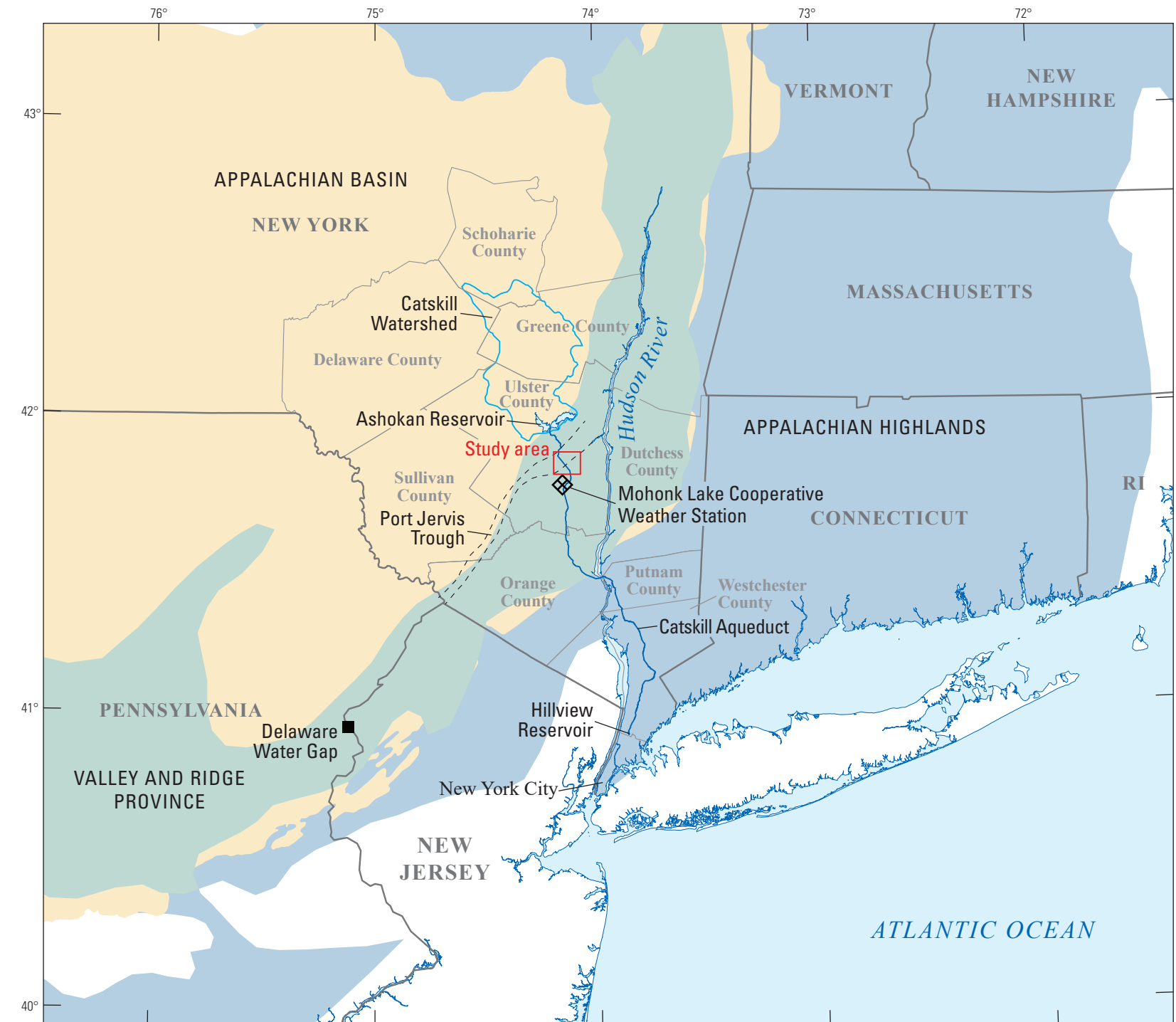
—200— — **Water-level elevation in bedrock wells**—Shows equipotential surface of hydraulic head. Dashed where location is inferred. Contour interval is 20 feet

Hamlet of High Falls

5 Tunnel and shaft number

Tunnel and steel interliner

U-261²₂₂₇ **Observation well**—Upper number represents New York State well identifier. Lower number indicates water-level elevation, in feet above NAVD 88. Superscript text after well identifier indicates the figure number of the hydrograph (in pamphlet). ND indicates that no data were available during time of study. Asterisk indicates well was flowing



INDEX MAP SHOWING STUDY AREA (RED OUTLINE), CATSKILL WATERSHED (BLUE OUTLINE), AND SURROUNDING GEOGRAPHIC FEATURES. PHYSIOGRAPHIC PROVINCES FROM U.S. ENVIRONMENTAL PROTECTION AGENCY (2015): YELLOW SHADING, APPALACHIAN BASIN; BLUE SHADING, APPALACHIAN HIGHLANDS; GREEN SHADING, VALLEY AND RIDGE PROVINCE

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Digital files available at <https://doi.org/10.13133/20221118> and <https://doi.org/10.5066/1.50666/PJWCAS>

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Elevation of the Potentiometric Surface in the Bedrock Aquifer near High Falls, New York, January 2020

By
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2022