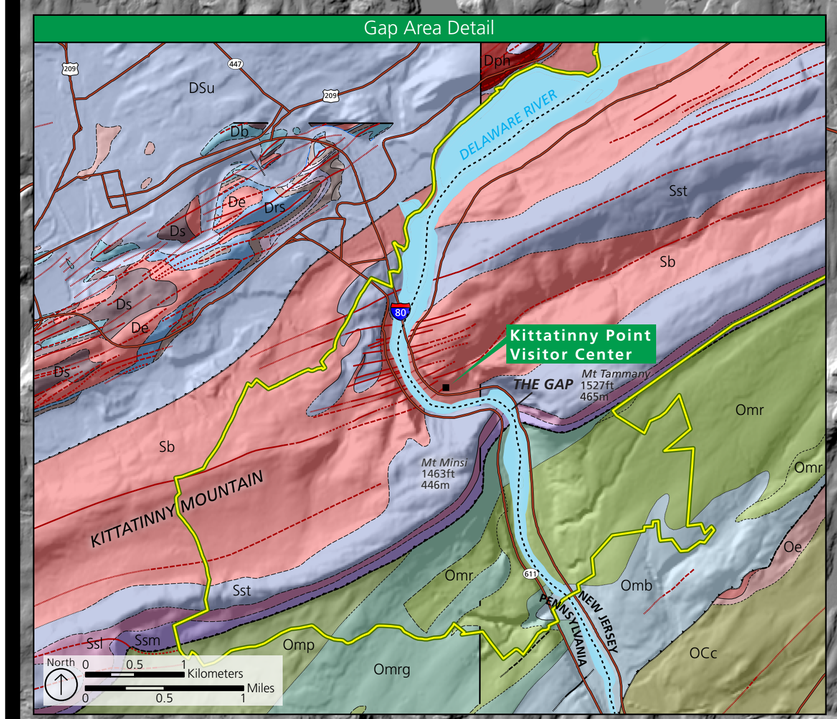
Bedrock Geologic Map of Delaware Water Gap NRA

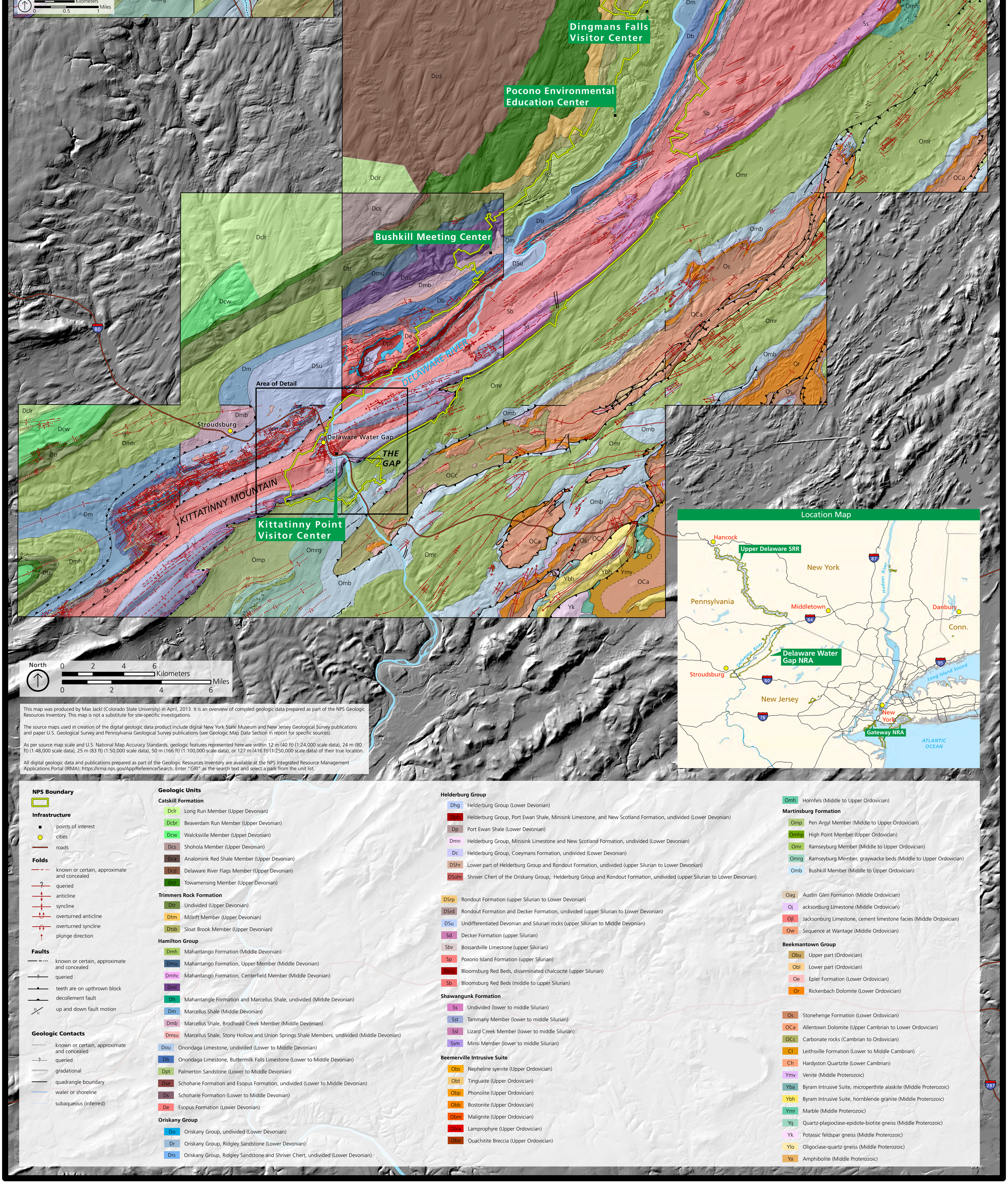
New Jersey and Pennsylvania

National Park Service
U.S. Department of the Interior

Geologic Resources Inventory

Gap Area Detail





Location Map

North
0 2 4 6 Kilometers
0 2 4 6 Miles

This map was produced by Max Jackl (Colorado State University) in April, 2013. It is an overview of compiled geologic data prepared as part of the NPS Geologic Resources Inventory. This map is not a substitute for site-specific investigations.

The source maps used in creation of the digital geologic data product include digital New York State Museum and New Jersey Geological Survey publications and paper U.S. Geological Survey and Pennsylvania Geological Survey publications (see Geologic Map Data Section in report for specific sources).

As per source map scale and U.S. National Map Accuracy Standards, geologic features represented here are within 12 m (40 ft) (1:24,000 scale data), 24 m (80 ft) (1:48,000 scale data), 25 m (83 ft) (1:50,000 scale data), 50 m (166 ft) (1:100,000 scale data), or 127 m (416 ft) (1:250,000 scale data) of their true location.

All digital geologic data and publications prepared as part of the Geologic Resources Inventory are available at the NPS Integrated Resource Management Applications Portal (IRMA): https://irma.nps.gov/App/Reference/Search. Enter "GRI" as the search text and select a park from the unit list.

NPS Boundary

Infrastructure
- points of interest
- cities
- roads

Folds
- known or certain, approximate and concealed
- queried
- anticline
- syncline
- overturned anticline
- overturned syncline
- plunge direction

Faults
- known or certain, approximate and concealed
- queried
- teeth are on upthrown block
- decollement fault
- up and down fault motion

Geologic Contacts
- known or certain, approximate and concealed
- queried
- gradational
- quadrangle boundary
- water or shoreline
- subaqueous (inferred)

Geologic Units

Catskill Formation
- Dclr Long Run Member (Upper Devonian)
- Dcbr Beaverdam Run Member (Upper Devonian)
- Dcw Walcksville Member (Upper Devonian)
- Dcs Shohola Member (Upper Devonian)
- Dca Analomink Red Shale Member (Upper Devonian)
- Dcd Delaware River Flags Member (Upper Devonian)
- Dct Towamensing Member (Upper Devonian)

Trimmers Rock Formation
- Dtr Undivided (Upper Devonian)
- Dtm Millrift Member (Upper Devonian)
- Dtsb Sloat Brook Member (Upper Devonian)

Hamilton Group
- Dmh Mahantango Formation (Middle Devonian)
- Dmu Mahantango Formation, Upper Member (Middle Devonian)
- Dmhc Mahantango Formation, Centerfield Member (Middle Devonian)
- Dml
- Dh Mahantangle Formation and Marcellus Shale, undivided (Middle Devonian)
- Dm Marcellus Shale (Middle Devonian)
- Dmb Marcellus Shale, Brodhead Creek Member (Middle Devonian)
- Dmsu Marcellus Shale, Stony Hollow and Union Springs Shale Members, undivided (Middle Devonian)
- Dou Onondaga Limestone, undivided (Lower to Middle Devonian)
- Db Onondaga Limestone, Buttermilk Falls Limestone (Lower to Middle Devonian)
- Dpt Palmerton Sandstone (Lower to Middle Devonian)
- Dse Schoharie Formation and Esopus Formation, undivided (Lower to Middle Devonian)
- Ds Schoharie Formation (Lower to Middle Devonian)
- De Esopus Formation (Lower Devonian)

Oriskany Group
- Do Oriskany Group, undivided (Lower Devonian)
- Dr Oriskany Group, Ridgley Sandstone (Lower Devonian)
- Drs Oriskany Group, Ridgley Sandstone and Shriver Chert, undivided (Lower Devonian)

Helderburg Group
- Dhg Helderburg Group (Lower Devonian)
- Dph Helderburg Group, Port Ewan Shale, Minisink Limestone, and New Scotland Formation, undivided (Lower Devonian)
- Dp Port Ewan Shale (Lower Devonian)
- Dmn Helderburg Group, Minisink Limestone and New Scotland Formation, undivided (Lower Devonian)
- Dc Helderburg Group, Coeymans Formation, undivided (Lower Devonian)
- DShr Lower part of Helderburg Group and Rondout Formation, undivided (upper Silurian to Lower Devonian)
- DSohr Shriver Chert of the Oriskany Group, Helderburg Group and Rondout Formation, undivided (upper Silurian to Lower Devonian)

- DSrp Rondout Formation (upper Silurian to Lower Devonian)
- DSrd Rondout Formation and Decker Formation, undivided (upper Silurian to Lower Devonian)
- DSu Undifferentiated Devonian and Silurian rocks (upper Silurian to Middle Devonian)
- Sd Decker Formation (upper Silurian)
- Sbv Bossardville Limestone (upper Silurian)
- Sp Poxono Island Formation (upper Silurian)
- Sbcu Bloomsburg Red Beds, disseminated chalcocite (upper Silurian)
- Sb Bloomsburg Red Beds (middle to upper Silurian)

Shawangunk Formation
- Ss Undivided (lower to middle Silurian)
- Sst Tammany Member (lower to middle Silurian)
- Ssl Lizard Creek Member (lower to middle Silurian)
- Ssm Minsi Member (lower to middle Silurian)

Beemerville Intrusive Suite
- Obs Nepheline syenite (Upper Ordovician)
- Obt Tinguaite (Upper Ordovician)
- Obp Phonolite (Upper Ordovician)
- Obb Bostonite (Upper Ordovician)
- Obm Malignite (Upper Ordovician)
- Obla Lamprophyre (Upper Ordovician)
- Obo Ouachitite Breccia (Upper Ordovician)

- Omh Hornfels (Middle to Upper Ordovician)

Martinsburg Formation
- Omp Pen Argyl Member (Middle to Upper Ordovician)
- Omhp High Point Member (Upper Ordovician)
- Omr Ramseyburg Member (Middle to Upper Ordovician)
- Omrg Ramseyburg Member, graywacke beds (Middle to Upper Ordovician)
- Omb Bushkill Member (Middle to Upper Ordovician)

- Oag Austin Glen Formation (Middle Ordovician)
- Oj acksonburg Limestone (Middle Ordovician)
- Ojl Jacksonburg Limestone, cement limestone facies (Middle Ordovician)
- Ow Sequence at Wantage (Middle Ordovician)

Beekmantown Group
- Obu Upper part (Ordovician)
- Obl Lower part (Ordovician)
- Oe Epler Formation (Lower Ordovician)
- Or Rickenbach Dolomite (Lower Ordovician)

- Os Stonehenge Formation (Lower Ordovician)
- OCa Allentown Dolomite (Upper Cambrian to Lower Ordovician)
- OCc Carbonate rocks (Cambrian to Ordovician)
- Cl Leithsville Formation (Lower to Middle Cambrian)
- Ch Hardyston Quartzite (Lower Cambrian)
- Ymv Venite (Middle Proterozoic)
- Yba Byram Intrusive Suite, microperthite alaskite (Middle Proterozoic)
- Ybh Byram Intrusive Suite, hornblende granite (Middle Proterozoic)
- Ymr Marble (Middle Proterozoic)
- Yq Quartz-plagioclase-epidote-biotite gneiss (Middle Proterozoic)
- Yk Potassic feldspar gneiss (Middle Proterozoic)
- Ylo Oligoclase-quartz gneiss (Middle Proterozoic)
- Ya Amphibolite (Middle Proterozoic)