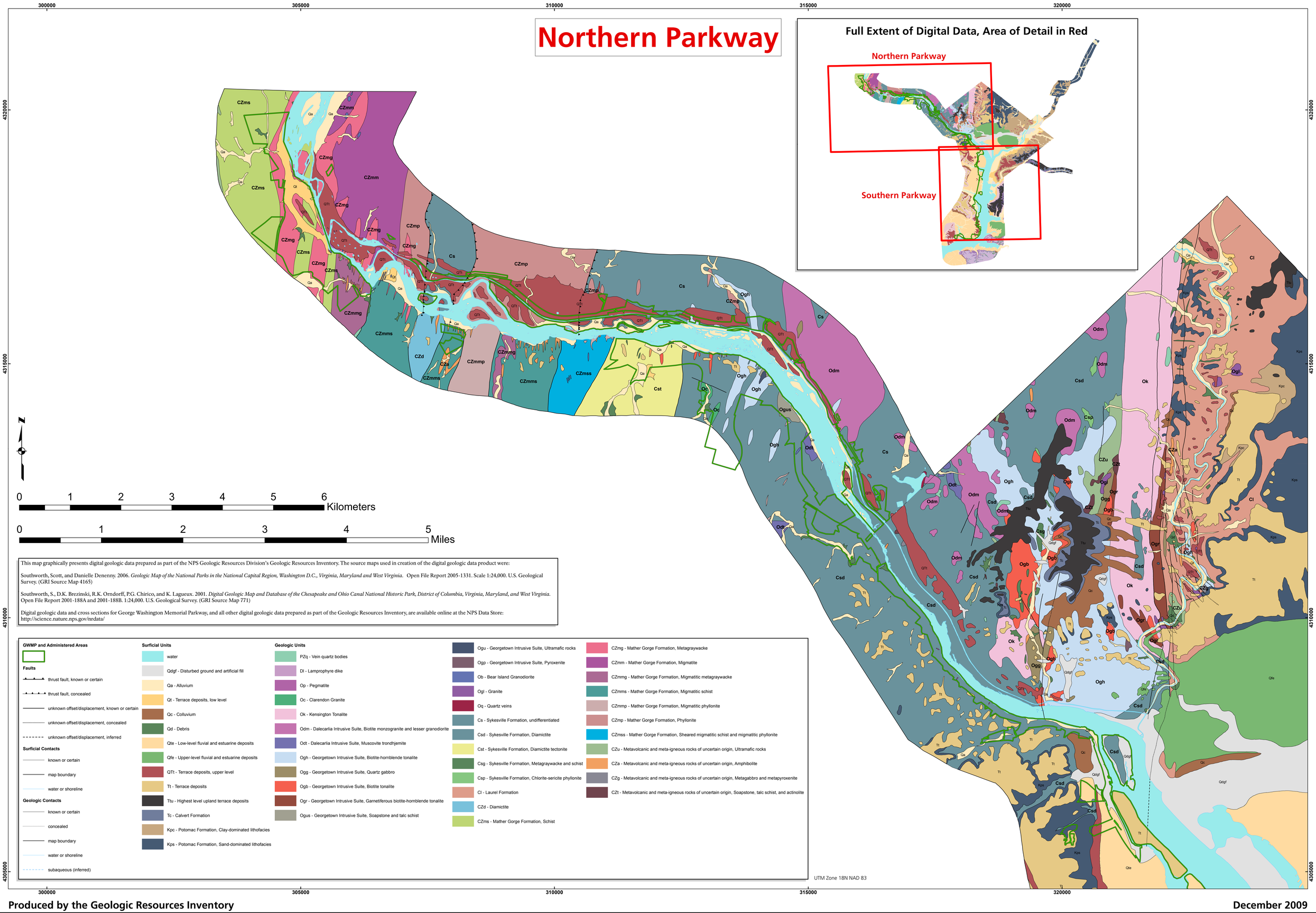
Geologic Map of George Washington Memorial Parkway



This map graphically presents digital geologic data prepared as part of the NPS Geologic Resources Division's Geologic Resources Inventory. The source maps used in creation of the digital geologic data product were:

Southworth, Scott, and Danielle Denenny. 2006. *Geologic Map of the National Parks in the National Capital Region, Washington D.C., Virginia, Maryland and West Virginia*. Open File Report 2005-1331. Scale 1:24,000. U.S. Geological Survey. (GRI Source Map 4165)

Southworth, S., D.K. Brezinski, R.K. Orndorff, P.G. Chirico, and K. Lagueux. 2001. *Digital Geologic Map and Database of the Chesapeake and Ohio Canal National Historic Park, District of Columbia, Virginia, Maryland, and West Virginia*. Open File Report 2001-188A and 2001-188B. 1:24,000. U.S. Geological Survey. (GRI Source Map 771)

Digital geologic data and cross sections for George Washington Memorial Parkway, and all other digital geologic data prepared as part of the Geologic Resources Inventory, are available online at the NPS Data Store: http://science.nature.nps.gov/nrdata/

GWMP and Administered Areas

Faults
- thrust fault, known or certain
- thrust fault, concealed
- unknown offset/displacement, known or certain
- unknown offset/displacement, concealed
- unknown offset/displacement, inferred

Surficial Contacts
- known or certain
- map boundary
- water or shoreline

Geologic Contacts
- known or certain
- concealed
- map boundary
- water or shoreline
- subaqueous (inferred)

Surficial Units
- water
- Qdgf - Disturbed ground and artificial fill
- Qa - Alluvium
- Qt - Terrace deposits, low level
- Qc - Colluvium
- Qd - Debris
- Qte - Low-level fluvial and estuarine deposits
- Qfe - Upper-level fluvial and estuarine deposits
- QTt - Terrace deposits, upper level
- Tt - Terrace deposits
- Ttu - Highest level upland terrace deposits
- Tc - Calvert Formation
- Kpc - Potomac Formation, Clay-dominated lithofacies
- Kps - Potomac Formation, Sand-dominated lithofacies

Geologic Units
- PZq - Vein quartz bodies
- Dl - Lamprophyre dike
- Op - Pegmatite
- Oc - Clarendon Granite
- Ok - Kensington Tonalite
- Odm - Dalecarlia Intrusive Suite, Biotite monzogranite and lesser granodiorite
- Odt - Dalecarlia Intrusive Suite, Muscovite trondhjemite
- Ogh - Georgetown Intrusive Suite, Biotite-hornblende tonalite
- Ogg - Georgetown Intrusive Suite, Quartz gabbro
- Ogb - Georgetown Intrusive Suite, Biotite tonalite
- Ogr - Georgetown Intrusive Suite, Garnetiferous biotite-hornblende tonalite
- Ogus - Georgetown Intrusive Suite, Soapstone and talc schist
- Ogu - Georgetown Intrusive Suite, Ultramafic rocks
- Ogp - Georgetown Intrusive Suite, Pyroxenite
- Ob - Bear Island Granodiorite
- Ogl - Granite
- Oq - Quartz veins
- Cs - Sykesville Formation, undifferentiated
- Csd - Sykesville Formation, Diamictite
- Cst - Sykesville Formation, Diamictite tectonite
- Csg - Sykesville Formation, Metagraywacke and schist
- Csp - Sykesville Formation, Chlorite-sericite phyllonite
- Cl - Laurel Formation
- CZd - Diamictite
- CZms - Mather Gorge Formation, Schist
- CZmg - Mather Gorge Formation, Metagraywacke
- CZmm - Mather Gorge Formation, Migmatite
- CZmmg - Mather Gorge Formation, Migmatitic metagraywacke
- CZmms - Mather Gorge Formation, Migmatitic schist
- CZmmp - Mather Gorge Formation, Migmatitic phyllonite
- CZmp - Mather Gorge Formation, Phyllonite
- CZmss - Mather Gorge Formation, Sheared migmatitic schist and migmatitic phyllonite
- CZu - Metavolcanic and meta-igneous rocks of uncertain origin, Ultramafic rocks
- CZa - Metavolcanic and meta-igneous rocks of uncertain origin, Amphibolite
- CZg - Metavolcanic and meta-igneous rocks of uncertain origin, Metagabbro and metapyroxenite
- CZt - Metavolcanic and meta-igneous rocks of uncertain origin, Soapstone, talc schist, and actinolite