



Wolf Trap National Park for the Performing Arts

Geologic Resources Inventory

GIS Data Explanation, April 22, 2026

Geologic-Geographic Information Systems (GIS) data related to Wolf Trap National Park for the Performing Arts is delivered in data package ZIP (.zip) files. These data are a product of the NPS Geologic Resources Inventory (GRI) program, which is funded by the Inventory and Monitoring (I&M) Division and administered by the NPS Geologic Resources Division (GRD).

Geologic-GIS data for Wolf Trap National Park for the Performing Arts consist of a dedicated park map providing complete coverage of the park and surrounding area. Data files for the dedicated park map are named using the park four-letter code (WOTR) as a prefix.

Geologic-GIS data are provided in the following GRI-supported GIS data formats 1.) Esri file geodatabase format, 2.) 2.2 KML/KMZ format for use with Google Earth software, 3.) Open Geospatial Consortium (OGC) geopackage format for use in QGIS (or other OGC software), and upon request in 4.) shapefile format (contact Rebecca Port, see contact information below, to acquire shapefile format data).

Data package ZIP files containing the different GRI-supported GIS data formats are identified with following file suffixes: 1.) Esri file geodatabase for use in ArcGIS Pro have a file suffix of "gdb_pro.zip", 2.) KML data have a file suffix of "kml.zip", 3.) OGC geopackage data have a file suffix of "gpkg.zip", and if requested 4.) shapefile data have a file suffix of "shp.zip".

The ArcGIS Pro data package ZIP file has an Esri file geodatabase and a Pro 3.X map (.mapx) file, as well as Pro layer (.lyrx) files. Pro 3.X map (.mapx) files and QGIS project (.qgz) files present GRI geologic data layers and GIS tables complete with data layer and table naming, symbology, and feature labeling for viewing and data analysis. The Pro 3.X layer (.lyrx) files are provided so data layers can be added to a new or existing Pro 3.X maps or projects with their associated layer naming, symbology, and labeling. All data package ZIP files also contain a FGDC-compliant metadata file (in .txt and .xml formats).

For a GIS dataset, the GRI recommends extracting all map files from a data package to its own folder. This is particularly of importance for file geodatabase data packages as an associated Pro 3.X map file (.mapx) and related layer (.lyrx) files have relative file paths set to their file geodatabase.

In addition to the data package ZIP files, three additional files comprise a GRI digital geologic-GIS map: 1.) this file (wotr_geology_gis_readme.pdf), 2.) the map's GRI National Capitol region ancillary map information document (.pdf) file (ncap_geology.pdf), which contains geologic unit descriptions, as well as other ancillary map information and graphics from the source maps used by the GRI in the production of GRI digital geologic-GIS data for parks in the National Capitol region, and 3.) a user-friendly FAQ PDF version of the metadata (e.g., wotr_geology_metadata_faq.pdf).

Detailed information concerning the source data used by the GRI is listed in the Source Citation section(s) of the included map metadata record (e.g., wotr_geology_metadata.txt). This information is also available in the FAQ version of the metadata (e.g., wotr_geology_metadata_faq.pdf). Information concerning source data is also in the National Capitol region Source Map Information GIS table (ncapmap) and repeated in the GRI ancillary map information document (.pdf) file.

The OGC geopackage data can be accessed using QGIS software. The software is available for free at: <https://www.qgis.org/en/site/>. A QGIS Project (.qgz) file is included. The OGC geopackage and its respective QGIS project (.qgz) file should be kept together in the same folder due to relative pathing.

The Google Earth KMZ file, wotr_geology.kmz, contains a limited version of the full spatial dataset (limited features and symbology). Google Earth software is available for free at: <https://www.google.com/earth/versions/>. The KMZ file possesses on-line links to the GRI program and its products, as well as to this readme document (on-line version), the GRI ancillary map information (.pdf) and the FGDC-compliant FAQ metadata (in .pdf format) pertaining to this dataset. Users are encouraged to open the readme document, FAQ metadata and the ancillary map information document outside of Google Earth should accessing the on-line versions via Google Earth be an issue. Users can also download Google Chrome (free at: <http://www.google.com/chrome/>) to view these files should their default browser not open these files from Google Earth.

Users of this data are cautioned about the locational accuracy of features and should not assume that features are exactly where they portrayed in Google Earth, ArcGIS, QGIS or other software used to display the data. Refer to the positional accuracy report and use constraints within a map metadata record for additional information concerning the positional accuracy of features in a GRI dataset. Users are also encouraged to only use the Google Earth data for basic visualization.

For detailed information regarding GIS parameters such as data attribute field definitions, attribute field codes, value definitions, and rules that govern relationships found in the data, refer to the NPS Geology-GIS Data Model document, gri_gdb_ggdm_v2dot3.pdf (available at: <https://www.nps.gov/articles/gri-geodatabase-model.htm>).

GRI digital geologic-GIS data are available at the NPS Data Store Search Application: <http://irma.nps.gov/App/Reference/Search>. To find GRI data for a specific park or parks select the appropriate park(s), enter “GRI” as a Search Text term, and then select the Search Button.

For a complete listing of Geologic Resources Inventory products and direct links to the download site, visit the GRI products webpage: http://go.nps.gov/gri_products.

For more information about the Geologic Resources Inventory Program visit the GRI webpage: <https://www.nps.gov/subjects/geology/gri.htm>. At the bottom of that webpage is a “Contact Us” link if you need additional information.

To provide feedback or to inquire about using and/or obtaining GRI products, contact:

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