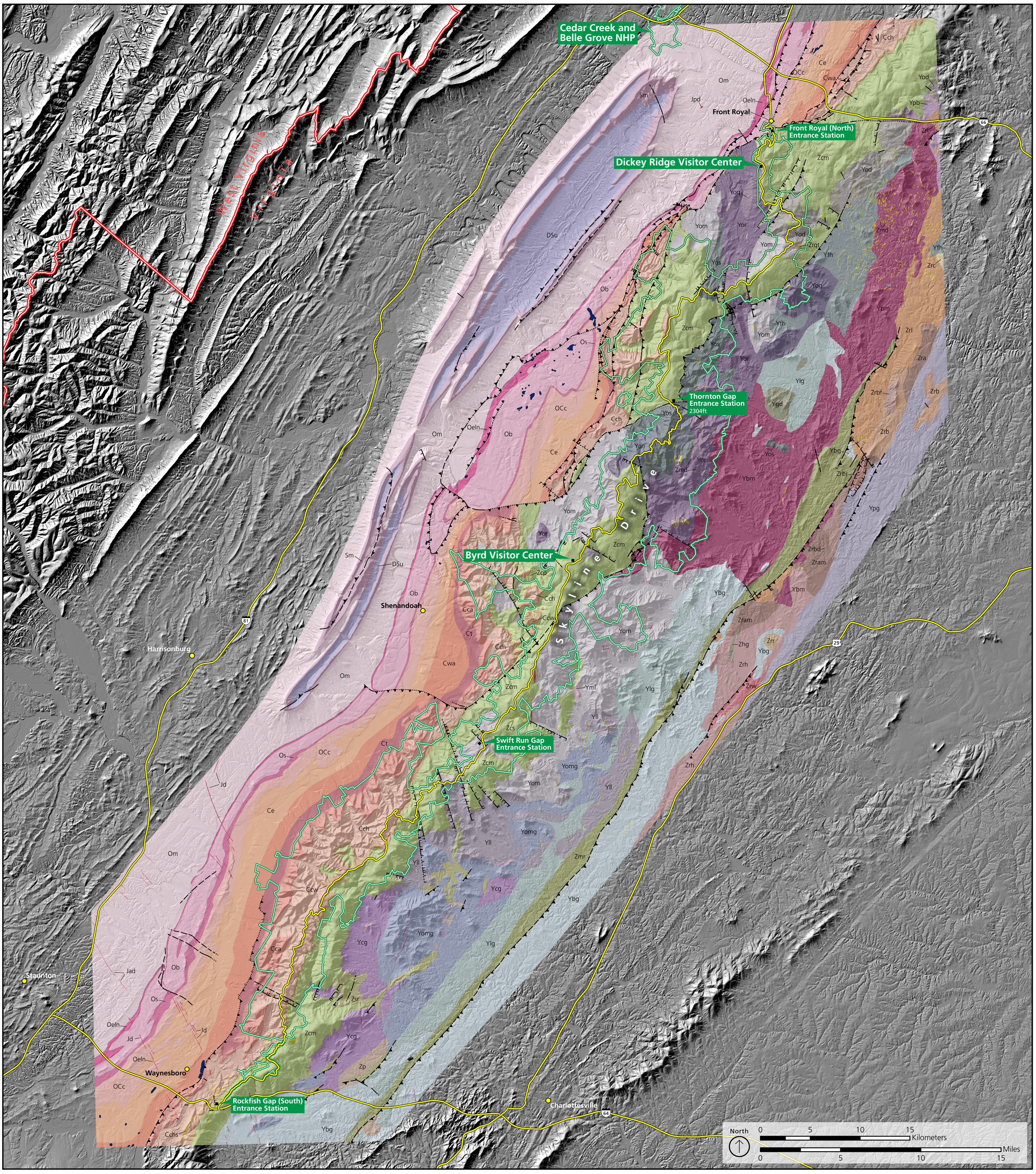
National Park Service
U.S. Department of the Interior

Bedrock Geologic Map of Shenandoah National Park, Virginia



NPS Boundary

Infrastructure

- points of interest
- cities
- roads

State Line

Faults

- unknown offset/displacement or tear fault
- normal fault, bar on downthrown side
- thrust fault, sawteeth on upper plate

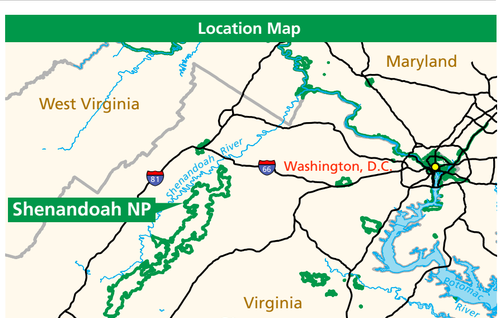
dashed where approximately located; dotted where concealed; and queried where uncertain

Karst Features

- large sinkholes

Bedrock Units

- Jpd Peridotite dike
- Jad Alkalic dike
- Jd Diabase dike
- DSu Devonian and Silurian rocks, undivided
- Sm Massanutten Sandstone
- Om Martinsburg Formation
- Oeln Edinburg Formation, Lincolnshire Limestone, and New Market Limestone, undivided
- Ob Beekmantown Group, undivided
- Os Stonehenge Limestone
- OCc Conococheague Limestone
- Ce Elbrook Limestone
- Cwa Waynesboro Formation
- Ct Tomstown Formation
- Cca Antietam Formation
- Cch Harpers Formation
- Cchs Harpers Formation, ferruginous metasandstone
- Ccw Weverton Formation
- Zcp Catoctin Formation, metavolcanic phyllite
- Zcs Catoctin Formation, metasandstone and laminated phyllite
- Zcr Catoctin Formation, metarhyolite
- Zcm Catoctin Formation, metabasalt
- Zmd Metadiabase dike
- Zsr Swift Run Formation
- Zhg Hornblende metagabbro dike and (or) sill
- Zmr Mechum River Formation
- Zra Amissville Alkali Feldspar Granite
- Zrb Battle Mountain Alkali Feldspar Granite
- Zrbr Rhyolite and metaconglomerate
- Zrbf Felsite
- Zrbd Felsic dike
- Zrh Hitt Mountain Alkali Feldspar Syenite
- Zrqt Quartz trachyte
- Zrc Cobbler Mountain Alkali Feldspar Quartz Syenite
- Zrw White Oak Alkali Feldspar Granite
- Zrl Laurel Mills Granite
- Zram Arrington Mountain Alkali Feldspar Granite
- Zrr Rivanna Granite
- Zp Garnet-graphite paragneiss
- Ybg Biotite monzogranite-quartz monzodiorite
- Yom Orthopyroxene monzogranite-quartz monzodiorite
- Ypb Megacrystic quartz monzonite
- Ybm Megacrystic biotite monzogranite
- Ycg Crozet Granite
- Yor Old Rag Granite
- Yml Porphyroclastic metagranitoid
- Yog Orthopyroxene granite-monzogranite
- Yfh Flint Hill Gneiss
- Yll Lineated leucogranite gneiss
- Yomg Orthopyroxene monzogranite-quartz monzodiorite gneiss
- Yos Megacrystic orthopyroxene syenogranite-monzogranite gneiss
- Ygd Granodiorite gneiss
- Yoq Orthopyroxene quartz diorite gneiss
- Yon Orthopyroxene syenogranite and monzogranite gneiss
- Yod Orthopyroxene granodiorite gneiss
- Ypg Foliated, garnetiferous, porphyroblastic monzogranite
- Ylg Leucogranite gneiss



This map is an overview of compiled geologic data prepared as part of the NPS Geologic Resources Inventory. It is not a substitute for site-specific investigations.

The source map used in creation of the digital geologic data was:

Southworth, S., Aleinikoff, J.N., Bailey, C.M., Burton, W.C., Crider, E.A., Hackley, P.C., Smoot, J. P., and Tollo, R.P. 2009. Geologic Map of the Shenandoah National Park Region, Virginia (1:100,000 scale). Open-File Report 2009-1153. U.S. Geological Survey.

As per source map scale and U.S. National Map Accuracy Standards, geologic features represented here are within 51 m (166 ft) 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.