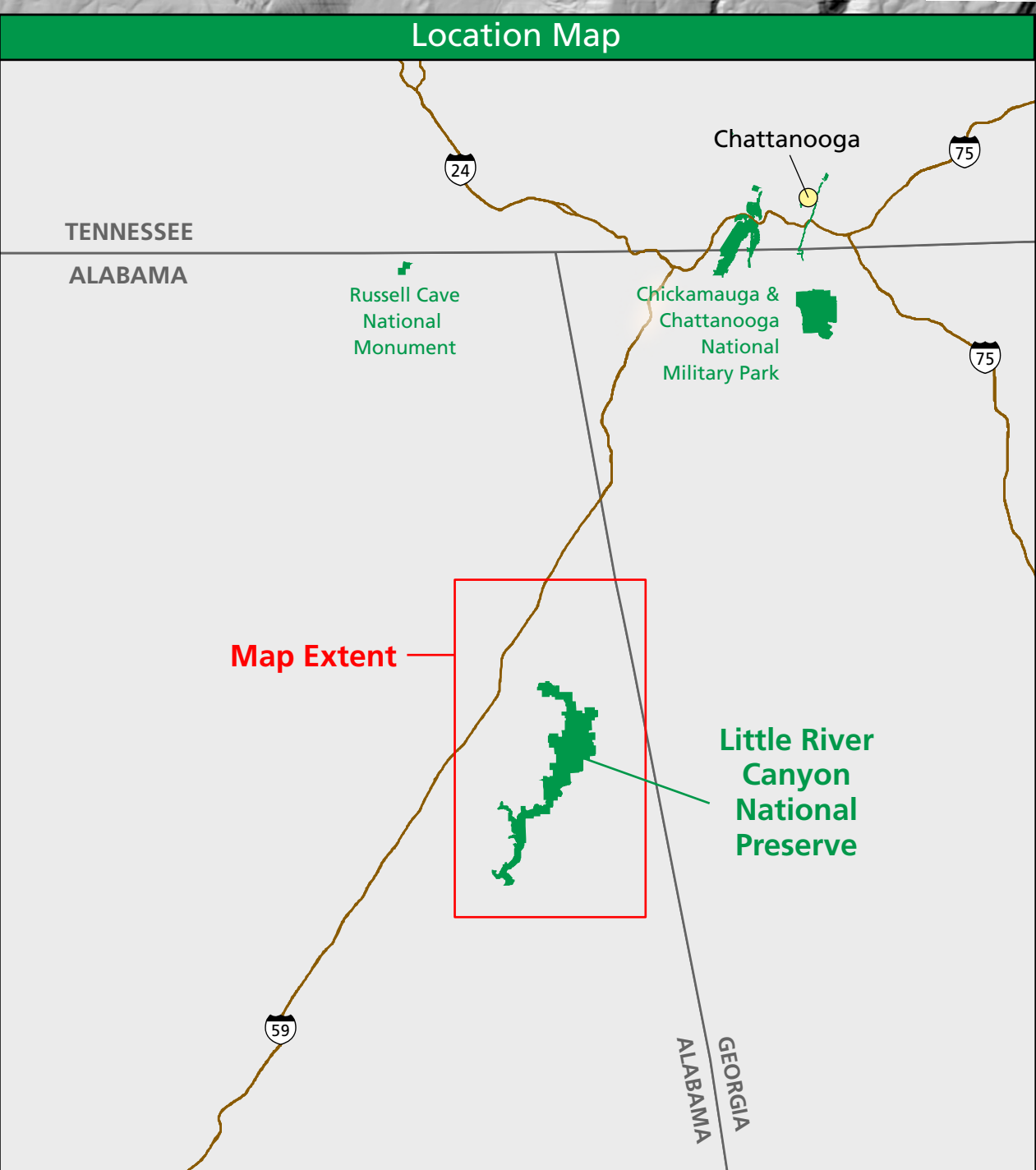
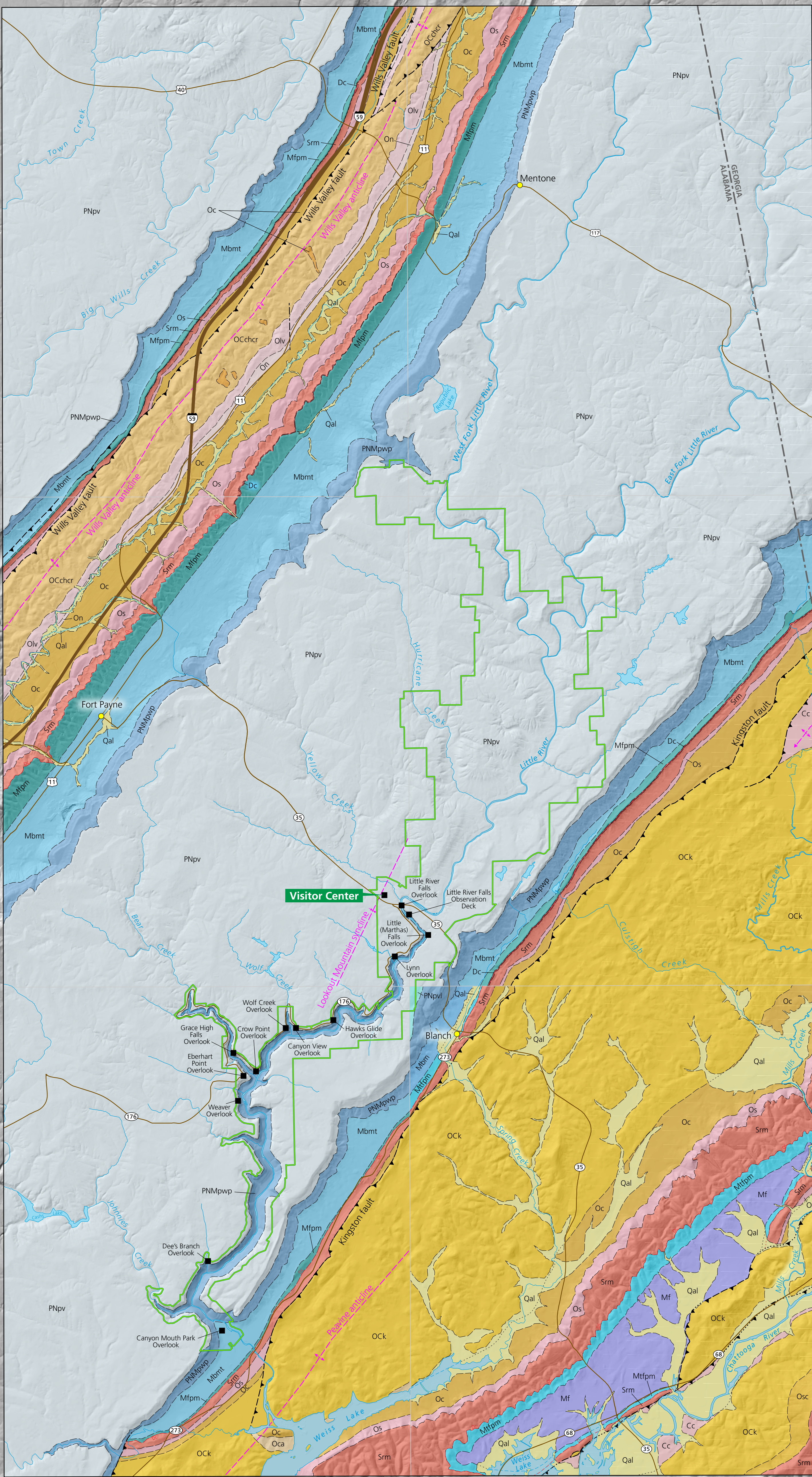


Geologic Map of Little River Canyon National Preserve

Alabama

National Park Service
U.S. Department of the Interior
Geologic Resources Inventory
Natural Resource Stewardship and Science



Boundaries

- Little River Canyon National Preserve
- 7.5-degree Quadrangle Map
- State Line

Infrastructure

- Town
- Point of Interest
- Interstate
- Highway

Linear Geologic Units

- Dc - Chattanooga Shale (Upper Devonian), long-dashed where approximate, dotted when concealed, short-dashed where inferred

Geologic Contacts

- Contacts, long-dashed where approximate, dotted where concealed, question marks where queried
- Water or shoreline, short-dashed where subaqueous (inferred)

Faults and Folds

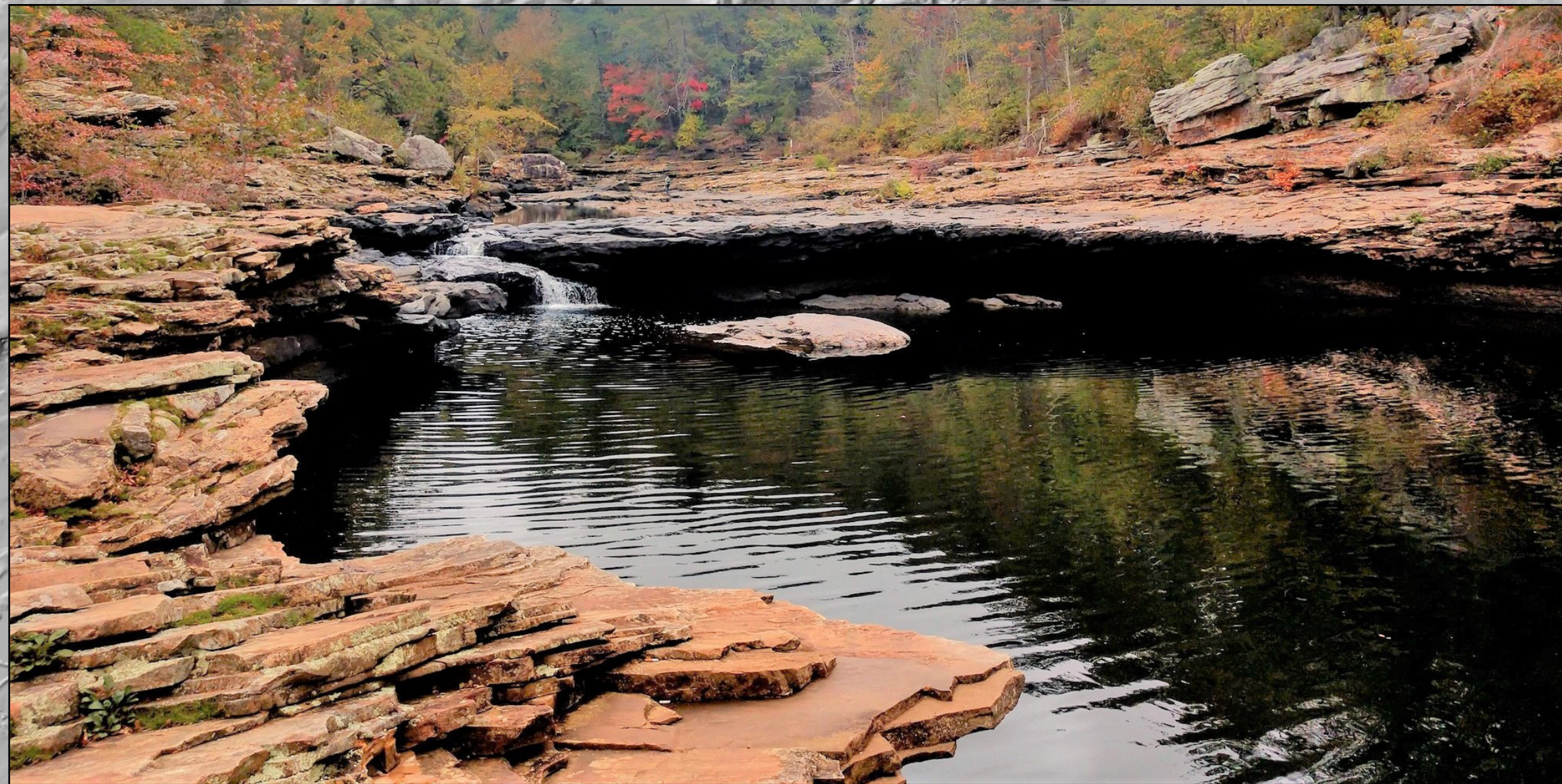
- Thrust fault, long-dashed where approximate, dotted where concealed, question marks where approximate and queried, short-dashed where inferred
- Anticline, long-dashed where approximate, short-dashed where inferred
- Syncline, approximate
- Overturned anticline, approximate

Geologic Units

Water
Qal Alluvium and low terrace deposits (Quaternary)
Tal Fluvial deposits (Tertiary)
PNPv Pottsville Formation (Lower Pennsylvanian)
PNPvl Pottsville Formation, lower part (Lower Pennsylvanian)
PNMpwp Parkwood Formation and Pennington Formation, undifferentiated (Lower Pennsylvanian and Upper Mississippian)
Mf Floyd Shale (Upper Mississippian)
Mbmt Bangor Limestone and Monteagle Limestone, undifferentiated (Upper Mississippian)
Mtftp Tusculum Limestone, Fort Payne Chert and Maury Shale, undifferentiated (Middle and Lower Mississippian)
Mfpm Fort Payne Chert and Maury Formation, undifferentiated (Middle and Lower Mississippian)
Dc Chattanooga Shale (Upper Devonian)
Srm Red Mountain Formation (Upper and Lower Silurian)
Os Sequatchie Formation (Upper and Middle Ordovician)
Osc Sequatchie Formation and Chickamauga Limestone, undifferentiated (Upper and Middle Ordovician)
Oc Chickamauga Limestone (Middle Ordovician)
Oca Chickamauga Limestone, Attalla Chert Conglomerate Member (Middle Ordovician?)
On Newala Limestone (Lower Ordovician)
Olv Longview Limestone (Lower Ordovician)
OCchr Chepultepec Dolomite and Copper Ridge Dolomite, undifferentiated (Lower Ordovician and Upper Cambrian)
Ock Knox Group undifferentiated (Lower Ordovician and Upper Cambrian)
Cc Conasauga Formation (Upper and Middle Cambrian)

North

0 4 Kilometers
0 4 Miles



Located downstream from Little River Falls, Little River at Little (Marthas) Falls flows over sandstone layers in the Parkwood and Pennington Formations, undivided (PNMpwp). Bedrock in this area is finely laminated and breaks into slabs along bedding planes. NPS Photo

This map displays geologic map data compiled by the National Park Service Geologic Resources Inventory. It is not a substitute for site-specific investigations.

Source Maps:

Irvin, G. D., W. E. Osborne, R. Edward, D. E. Raymond, and W. E. Ward II. 2018. Geologic Map of the Dugout Valley 7.5' Quadrangle, Dekalb County, Alabama. Geological Survey of Alabama, Open-File Report 1805, plate 1 (scale 1:24,000).

Irvin, G. D., et. al. 2018. Geologic Map of the Valley Head 7.5' Quadrangle, Dekalb and Cherokee Counties, Alabama, and Chattanooga and Walker Counties, Georgia. Geological Survey of Alabama, Open-File Report 1805, plate 2 (scale 1:24,000).

Irvin, G. D., et. al. 2018. Geologic Map of the Fort Payne 7.5' Quadrangle, Dekalb and Cherokee Counties, Alabama, and Chattanooga and Walker Counties, Georgia. Geological Survey of Alabama, Open-File Report 1805, plate 3 (scale 1:24,000).

Ma, C. and M. Steltenpohl. 2018. Bedrock Geologic Map of the Jamestown 7.5' Quadrangle, Dekalb and Cherokee Counties, Alabama, and Chattanooga and Walker Counties, Georgia. Geological Survey of Alabama and Auburn University, Open-File Report 1805, plate 4 (scale 1:24,000).

Ma, C. and M. Steltenpohl. 2018. Bedrock Geologic Map of the Little River 7.5' Quadrangle, Cherokee and Dekalb Counties, Alabama. Geological Survey of Alabama and Auburn University, Open-File Report 1805, plate 5 (scale 1:24,000).

Cook, B. S., G. D. Irvin, and W. E. Osborne. 2019. Geology of the Gaylesville 7.5-Minute Quadrangle, Cherokee County, Alabama. Alabama Geological Survey, Unpublished STATEMAP map (scale 1:24,000).

Source Scale: 1:24,000. According to US National Map accuracy standards, features are within 12 m (40 ft) of their true location.

Poster Layout: Thom Curdts, Lucas Chappell, Kajsja Holland-Goon (Colorado State University)

Poster Date: November 2021

All Geologic Resources Inventory geologic map data and publications are available at <https://go.nps.gov/gripubs>.