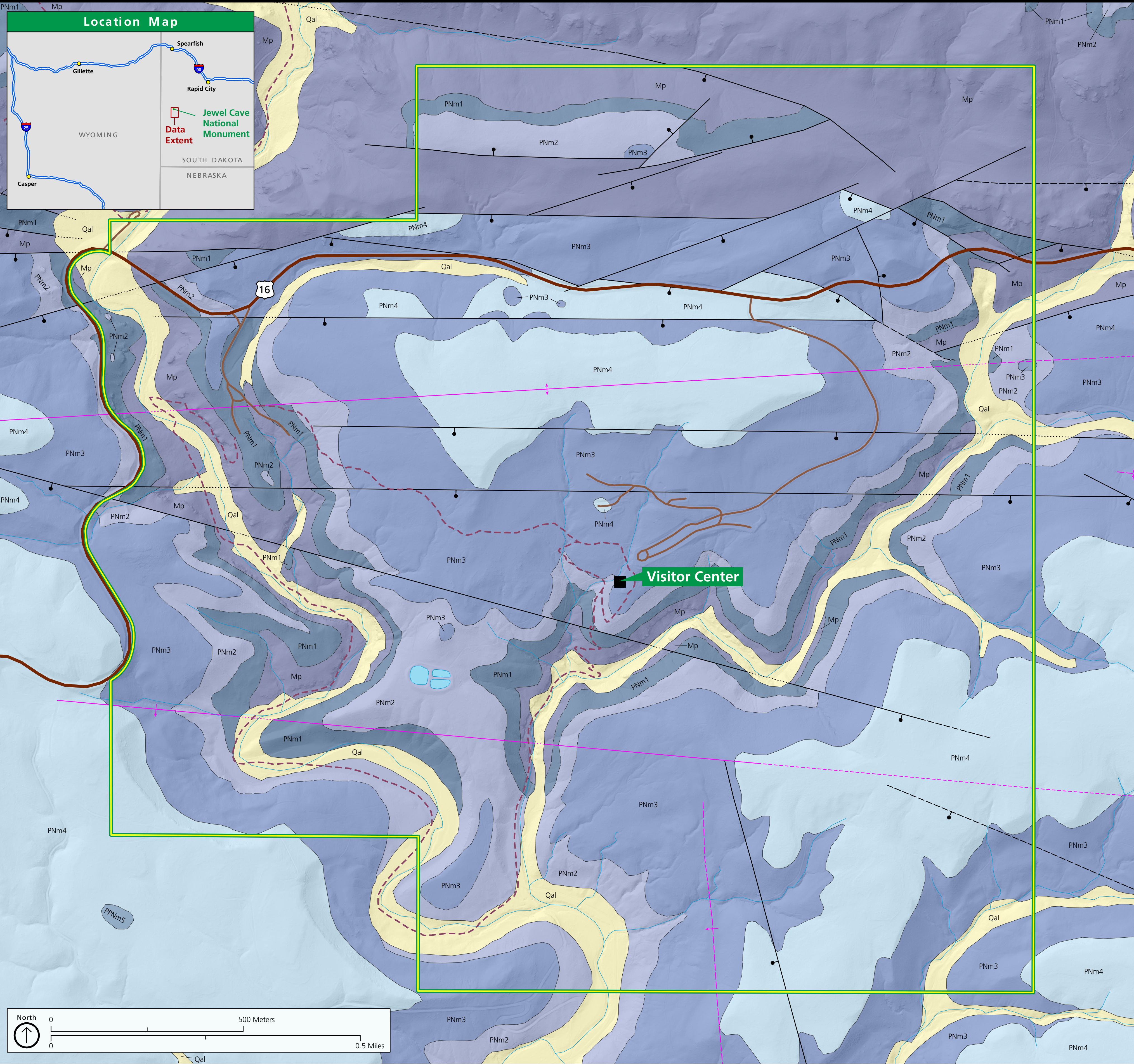


Geologic Map of Jewel Cave National Monument

South Dakota

National Park Service
U.S. Department of the Interior

Geologic Resources Inventory
Natural Resource Stewardship and Science



LEGEND

NPS boundary

Water

Trail

Minor road

Highway

Faults

(ball and bar indicates downthrown side)

Normal fault - solid where known or certain, dashed where approximate, dotted where concealed

Unknown offset/displacement, approximate

Folds

(arrows indicate dip direction of strata)

Anticline - solid where known or certain, long dash where approximate, short dash where inferred, dotted where concealed

Syncline - long dash where approximate

Monocline - solid where known or certain, long dash where approximate, short dash where inferred, dotted where concealed

Geologic Contacts

Solid where known or certain, dashed where approximate

Geologic Units

Qal Alluvium (Quaternary)

PNm5 unit 5 (Lower Permian and Upper Pennsylvanian)

PNm4 unit 4 (Upper Pennsylvanian)

PNm3 unit 3 (Upper Pennsylvanian)

PNm2 unit 2 (Upper Pennsylvanian)

PNm1 unit 1 (Upper Pennsylvanian)

Mp Pahasapa Limestone (Lower Mississippian)

This map displays geologic map data compiled by the National Park Service Geologic Resources Inventory. It is not a substitute for site-specific investigations. All Geologic Resources Inventory geologic map data and publications are available at <https://go.nps.gov/gripubs>.

Source Map:
Fagnan, Brian A., 2009 (revised 2010), geologic map of the Jewel Cave Quadrangle, South Dakota, Geologic Quadrangle Map GQ24k-9 (scale: 1:24,000). South Dakota Geological Survey, Vermillion, South Dakota.

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

Poster Layout:
Thom Curdts and Eli Crocker (Colorado State University)

Poster Date: March 2024

This poster was completed in 2024 to reflect new geologic data and an updated GIS data set. The previous poster was created in 2009 to accompany Geological Resources Inventory report, which has not been updated.