

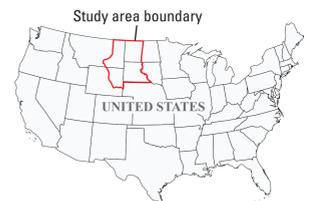
EXPLANATION

Uppermost part of the Precambrian basement rock surface elevation—Plate 1 shows the elevation from sea level for the uppermost horizon of the Precambrian basement rock model unit as used in the three-dimensional geologic framework model. Elevation is in meters

3,941.25
 -4,202.16

Northern Great Plains model outline
 Contour—Index contour interval 500 meters. Intermediate contour interval 100 meters. Datum is sea level

Surface structure



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Mapped traces of faults and folds shown on this plate were compiled from published State geological survey maps and are presented for illustrative purposes only. Three-dimensional renderings of these structures are not shown on the plate, but rather are represented at the structural datum as deviations in the structure-contour surfaces, which were autogenerated from the three-dimensional grid without refinement for cartographic effectiveness. The underlying digital data, rather than the contours on the plate, provide the most accurate and useful representation of the subsurface.

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Digital files available at <https://doi.org/10.3133/si0005127>.

Supporting dataset
 Spangler, L.R., 2024, Elevation from sea level for the uppermost horizon of the Precambrian Basement Rock produced in the three-dimensional geologic model, pl. 1 of the three-dimensional geologic framework model of the northern Great Plains region of Montana, North Dakota, South Dakota, and Wyoming, USA: U.S. Geological Survey Scientific Investigations Report 2026-5127, pl. 1, <https://doi.org/10.3133/si20260127>.

Associated data file publication
 Spangler, L.R., 2024a, Digital database of a 3D Geological Model of the Powder River Basin and Williston Basin Regions, USA: U.S. Geological Survey data release, <https://doi.org/10.5066/P3RSC5BV>.

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For more information concerning the research in this report, contact the Center Director, USGS Earthquake and Environmental Change Science Center, 600 20th St., 5th Fl., Denver, CO 80202, (303) 231-5344. Or visit the Earthquake and Environmental Change Science Center website at <https://www.usgs.gov/centers/earthquake-and-environmental-change-science-center>. Publishing support provided by the USGS Science Publishing Network, Denver and Baltimore Publishing Service Centers.

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Elevation from Sea Level for the Uppermost Horizon of the Precambrian Basement Rock Unit Produced in the Three-Dimensional Geologic Model

By
Leland Spangler
 2026

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