



Montana Bureau of Mines and Geology

Digital Map 2

Background and Information

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This updated 1:100,000-scale geologic map of northeastern Montana is available as a digital database, Digital Map 2. The DM 2 dataset includes extensive surficial deposits not shown on corresponding MBMG 1:100,000-scale bedrock-emphasis open-file maps. Adding the surficial deposits to this block of maps was necessary in order to seamlessly integrate the maps into the 1:100,000-scale Geologic Map of Montana and to provide the user with more comprehensive information. No additional fieldwork was done for the updated map. Sources for surficial deposits were primarily based on parent material indicated on USDA soils maps, and maps by USGS authors that were open-filed by the USGS and the MBMG. DM 2 can be viewed as part of the interactive Geologic Map of Montana web application.

Digital Map 2 (DM 2): Interactive Geologic Map of northeastern Montana

[View the DM 2 dataset as part of the interactive Geologic Map of Montana web application on the MBMG GIS Data Hub.](#)

The DM 2 dataset can also be downloaded as part of the GIS Data Bundle from the Publications Catalog webpage. The DM 2 GIS Data Bundle contains everything needed to view and symbolize the data in GIS, including an ESRI file geodatabase (.gdb), an ArcGIS Pro project file (.aprx), layer files (.lyrx), font files (.ttf), ESRI style files (.stylx), and metadata (.xml). The dataset that is downloaded from the Publications Catalog webpage for DM 2 will always match the dataset that is shown in the interactive Geologic Map of Montana web application on the GIS Data Hub.

In 2027, six additional 30' x 60' quadrangle maps will be added to DM 2 and will supersede an earlier, much more generalized addition of surficial deposits to the 1:100,000-scale Geologic Map of Montana. This update may also include edits to the 12 currently shown 30' x 60' quadrangle maps. All changes will be automatically reflected in the dataset that is downloaded as part of the DM 2 GIS Data Bundle and shown in the interactive Geologic Map of Montana web application on the GIS Data Hub. When changes to the DM 2 dataset are made, the publication number (DM 2) and citation will not change.

Post-2027, the DM 2 dataset will be incorporated into the 1:100,000-scale Geologic Map of Montana. At that time, DM 2 will remain available as a separate publication and database download, but any subsequent edits will be made to the 1:100,000-scale Geologic Map of Montana dataset rather than DM 2.

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