

# Interim Geologic Map of the Bryce Canyon Quadrangle, Garfield, Utah

**Type** File Geodatabase Feature Dataset

**Tags** geoscientific information, geologic map, geology, contacts, faults, lineaments, dikes, landslide scarps, geologic formations, geologic units, GIS, Garfield County, 7.5-Minute Quadrangle, Utah

## Summary

The Bryce Canyon 7.5' quadrangle is centered on the Paunsaugunt Plateau in the High Plateaus subsection of the Colorado Plateau physiographic province. The quadrangle encompasses the community of Bryce Canyon City, part of Bryce Canyon National Park (BCNP), and adjoining Dixie National Forest lands. The gently north-tilted surface of the Paunsaugunt Plateau sits at an average elevation of about 8000 feet (2400 m) and is drained northeastward by the East Fork Sevier River. Exposed bedrock in the Bryce Canyon quadrangle consists of a sequence of sedimentary rocks ranging in age from Late Cretaceous to Eocene. These rock units represent a 3500-foot (1065 m) section of fluvial, lacustrine, deltaic, and flood plain environments. Cretaceous Straight Cliffs, Wahweap, and Kaiparowits strata were deposited in fluvial and flood-plain environments along the western margin of the Late Cretaceous Western Interior Seaway. The Paleocene to Eocene Claron Formation was deposited in fluvial, floodplain, and lacustrine environments of an intermontane basin bounded by Laramide and Sevier uplifts. Claron strata typically weather to gently rolling hollows and hills. However, along the plateau's eastern rim, rapid erosion of the Claron Formation by the Paria River system has sculpted steep-walled amphitheaters adorned with vertical spires, hoodoos, and slot canyons—collectively known as the Pink Cliffs that are showcased in BCNP. The Rubys Inn and Pine Hills thrust faults are major east-west-trending, mid-Tertiary (Neogene) thrust faults that bisect the quadrangle and define the margins of Emery and Johns Valleys (e.g., Lundin, 1989; Bowers, 1991; Davis, 1999; Biek et al., 2015; Davis and Pollock, 2024). The faults generally place Late Cretaceous strata onto the Paleogene pink member of the Claron Formation. Research over the past 35 years has shown that the Rubys Inn and Pine Hills thrust faults are part of the larger Paunsaugunt thrust fault system that developed in response to gravitational spreading of the Marysvale volcanic field about 20 to 30 million years ago (e.g., Nickelsen et al., 1992; Davis and Rowley, 1993; Merle et al., 1993; Davis, 1999; Biek et al., 2015; Davis and Pollock, 2024). Stream alluvium and terrace deposits of different ages are present along larger drainages, including the East Fork Sevier River. Alluvial pediment deposits blanket much of Emery and Johns Valleys.

## Description

This map represents the geology of the Bryce Canyon 7.5' quadrangle at 1:24,000 scale. It depicts geologic formations, faults, folds, geologic attitudes, and other information. The map is accompanied by a second plate with a cross section, a lithologic column, a correlation chart of map units, list of map units and symbols, and a figure showing sources of previous geologic mapping. The booklet contains introductory text, description of map units, acknowledgments, and references.

## Credits

Project Manager: Matthew C. Morriss  
GIS and Cartography: Joshua A. Dustin  
Geology Review: Matthew C. Morriss, Stefan M. Kirby, and Stephanie Carney  
GeMS Review: Subigya Shah and Austin J. Jensen  
Funding: Funded by the Utah Geological Survey and the U.S. Geological Survey, National Cooperative Geologic Mapping Program, through USGS STATEMAP award number G24AC00342 (2024–2026).

## Use limitations

This open-file release makes information available to the public that has undergone only minimal peer review and may not conform to Utah Geological Survey technical, editorial, or policy standards. The map may be incomplete, and inconsistencies, errors, and omissions have not been resolved. The Utah Department of Natural Resources, Utah Geological Survey, makes no warranty, expressed or implied, regarding the suitability of this product for a particular use, and does not guarantee accuracy or completeness of the data. The Utah Department of Natural Resources, Utah Geological Survey, shall not be liable under any circumstances for any direct, indirect, special, incidental, or consequential damages with respect to claims by users of this product. For use at 1:24,000 scale.

This geologic map was funded by the Utah Geological Survey, the Bryce Canyon Association and the U.S. Geological Survey National Cooperative Geologic Mapping Program under STATEMAP award number G24AC00342 (2024-2026). The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. Government.

## Extent

West -112.2507 East -112.1257  
North 37.7500 South 37.6250

## Scale Range

Maximum (zoomed in) 1:5,000  
Minimum (zoomed out) 1:150,000,000

## Topics and Keywords ▶

Themes or categories of the resource Geoscientific

Content type ↔ Downloadable Data  
Export to FGDC CSDGM XML format as Resource Description No

Theme keywords geoscientificInformation

Thesaurus ▶  
Title ISO 19115 Topic Categories

Theme keywords geoscientific information, geologic map, geology, contacts, faults, lineaments, dikes, landslide scarps, geologic formations, geologic units, GIS, Garfield County, 7.5-Minute Quadrangle, Utah

Place keywords Bryce Canyon, Garfield County, Utah

## Citation ▶

Title Interim Geologic Map of the Bryce Canyon Quadrangle, Garfield, Utah  
Publication date 2020-10-01 00:00:00

Edition 1.0

Presentation formats digital map  
FGDC geospatial presentation format vector digital data

Series  
Name Map  
Issue OFR-780DM  
Collection title Interim Geologic map of the Bryce Canyon quadrangle, Garfield, Utah

Other citation details  
Knudsen, T.R. and Biek, R.F., 2026, Interim geologic map of the Bryce Canyon quadrangle, Garfield County, Utah: Utah Geological Survey Open-File Report 780DM, 11 p., 2 plates, scale 1:24,000, <http://doi.org/10.34191/OFR-780DM>.

Citation Contacts ▶

Responsible party - originator  
Individual's name UGS Geologic Mapping Program  
Organization's name Utah Geological Survey  
Contact's position GIS Analyst

Contact information ▶

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Type physical  
Delivery point 1594 W. North Temple  
City Salt Lake City  
Administrative area Utah  
Postal code 84116-3154  
Country US  
Hours of service  
Monday - Friday 8 am - 5 pm

Resource Details ▶

Dataset languages English (UNITED STATES)  
Dataset character set utf8 - 8 bit UCS Transfer Format

Status completed  
Spatial representation type ⇔ vector

Processing environment Esri ArcMap and/or ArcGIS Pro

Credits  
Project Manager: Matthew C. Morriss  
GIS and Cartography: Joshua A. Dustin  
Geology Review: Matthew C. Morriss, Stefan M. Kirby, and Stephanie Carney  
GeMS Review: Subigya Shah and Austin J. Jensen  
Funding: Funded by the Utah Geological Survey and the U.S. Geological Survey, National Cooperative Geologic Mapping Program, through USGS STATEMAP award number G24AC00342 (2024–2026).

ArcGIS item properties

Name ⇔ GeologicMap  
Location ⇔ file://\SEDNR-L03V-3UFD\G\$\Working Projects\BryceCanyon\_7.5\Spatial\gdb\OFR-780DM\_BryceCanyon.gdb  
Access protocol ⇔ Local Area Network

Extents ▶

Extent  
Geographic extent  
Bounding rectangle  
West longitude -112.126  
East longitude -111.998  
South latitude 40.369  
North latitude 40.503

Extent  
Description  
Unknown

Temporal extent  
Date and time 2020-10-01 00:00:00

Extent  
Geographic extent  
Bounding rectangle  
Extent type  
Extent used for searching  
West longitude -112.2507  
East longitude -112.1257  
North latitude 37.7500  
South latitude 37.6250  
Extent contains the resource ⇔ Yes

Extent in the item's coordinate system  
westBL ⇔ 229114.528500  
eastBL ⇔ 673655.531300  
southBL ⇔ 4094096.966600  
northBL ⇔ 4653733.356100  
exTypeCode ⇔ Yes

Resource Points of Contact ▶

Point of contact - distributor  
Organization's name Utah Geological Survey  
Individual's name Interactive Geologic Map Portal

Contact information ▶

Phone  
Voice Local: (801) 537-3300  
Voice Toll free: (801) UTAH Map (888) 882-4627  
Address

Type   physical  
Delivery point   1594 W. North Temple  
City   Salt Lake City  
Administrative area   Utah  
Postal code   84116-3154  
Country   US  
Hours of service  
Online web service

Contact instructions  
Browse UGS map publications and download PDFs and GIS data in the UGS Interactive Geologic Map Portal.

<https://geology.utah.gov/apps/intgeomap/>

Resource Maintenance ►

Resource maintenance  
Update frequency   not planned

Resource Constraints ►

Legal constraints  
Limitations of use  
See access and use constraints information.

Constraints  
Limitations of use

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Spatial Reference ►

ArcGIS coordinate system  
Type   ⇔ Projected  
Geographic coordinate reference   ⇔ GCS\_North\_American\_1983  
Projection   ⇔ NAD\_1983\_UTM\_Zone\_12N  
Coordinate reference details   ⇔  
ProjectedCoordinateSystem  
WKID   26912  
XOrigin   -5120900  
YOrigin   -9998100  
XYScale   10000  
ZOrigin   -100000  
ZScale   10000  
MOrigin   -100000  
MScale   10000  
XYTolerance   0.001  
ZTolerance   0.001  
MTolerance   0.001  
HighPrecision   true  
LatestWKID   26912  
WKT  
PROJCS["NAD\_1983\_UTM\_Zone\_12N",GEOGCS["GCS\_North\_American\_1983",DATUM["D\_North\_American\_1983",SPHEROID["GRS\_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["D

Reference system identifier  
Value   ⇔ 26912  
Codespace   ⇔ EPSG  
Version   ⇔ 6.11(3.0.1)

Spatial Data Properties ►

Vector ►  
Level of topology for this dataset   ⇔ geometry only

Geometric objects  
Feature class name   MapUnitPolys  
Object type   ⇔ composite  
Object count   ⇔ 538

Geometric objects  
Feature class name   ContactsAndFaults  
Object type   ⇔ composite  
Object count   ⇔ 622

Geometric objects  
Feature class name   GeologicLines  
Object type   ⇔ composite  
Object count   ⇔ 14

Geometric objects

Feature class name CartographicLines  
Object type ⇔ composite  
Object count ⇔ 59

Geometric objects  
Feature class name OrientationPoints  
Object type ⇔ point  
Object count ⇔ 49

Geometric objects  
Feature class name CartographicPoints  
Object type ⇔ point  
Object count ⇔ 20

Geometric objects  
Feature class name GeologicFeatures\_labels  
Object type ⇔ composite  
Object count ⇔ 68

Geometric objects  
Feature class name BryceCanyon\_MapBoundary  
Object type ⇔ composite  
Object count ⇔ 1

Geometric objects  
Feature class name UtahStateBoundary  
Object type ⇔ composite  
Object count ⇔ 1

Geometric objects  
Feature class name GeologicPoints  
Object type ⇔ point  
Object count ⇔ 24

Geometric objects  
Feature class name GeologicUnits\_labels  
Object type ⇔ composite  
Object count ⇔ 378

ArcGIS Feature Class Properties ►

Feature class name MapUnitPolys  
Feature type ⇔ Simple  
Geometry type ⇔ Polygon  
Has topology ⇔ TRUE  
Feature count ⇔ 538  
Spatial index ⇔ TRUE  
Linear referencing ⇔ FALSE

XY rank ⇔ 2  
Z rank ⇔ 2  
Topology weight ⇔ 5.000000  
Events on validation ⇔ FALSE  
Participates in topology rules  
6, 7, 8

ArcGIS Feature Class Properties ►

Feature class name ContactsAndFaults  
Feature type ⇔ Simple  
Geometry type ⇔ Polyline  
Has topology ⇔ TRUE  
Feature count ⇔ 622  
Spatial index ⇔ TRUE  
Linear referencing ⇔ FALSE

XY rank ⇔ 1  
Z rank ⇔ 1  
Topology weight ⇔ 5.000000  
Events on validation ⇔ FALSE  
Participates in topology rules  
1, 2, 3, 4, 5, 8

ArcGIS Feature Class Properties ►

Feature class name GeologicLines  
Feature type ⇔ Simple  
Geometry type ⇔ Polyline  
Has topology ⇔ FALSE  
Feature count ⇔ 14  
Spatial index ⇔ TRUE  
Linear referencing ⇔ FALSE

ArcGIS Feature Class Properties ►

Feature class name CartographicLines  
Feature type ⇔ Simple  
Geometry type ⇔ Polyline  
Has topology ⇔ FALSE  
Feature count ⇔ 59  
Spatial index ⇔ TRUE  
Linear referencing ⇔ FALSE

ArcGIS Feature Class Properties ►

Feature class name OrientationPoints  
Feature type ⇔ Simple

Geometry type    ⇔ Point  
Has topology    ⇔ FALSE  
Feature count    ⇔ 49  
Spatial index    ⇔ TRUE  
Linear referencing    ⇔ FALSE

ArcGIS Feature Class Properties ►

Feature class name    CartographicPoints  
Feature type    ⇔ Simple  
Geometry type    ⇔ Point  
Has topology    ⇔ FALSE  
Feature count    ⇔ 20  
Spatial index    ⇔ TRUE  
Linear referencing    ⇔ FALSE

ArcGIS Feature Class Properties ►

Feature class name    GeologicFeatures\_labels  
Feature type    ⇔ Annotation  
Geometry type    ⇔ Polygon  
Has topology    ⇔ FALSE  
Feature count    ⇔ 68  
Spatial index    ⇔ TRUE  
Linear referencing    ⇔ FALSE

ArcGIS Feature Class Properties ►

Feature class name    BryceCanyon\_MapBoundary  
Feature type    ⇔ Simple  
Geometry type    ⇔ Polygon  
Has topology    ⇔ FALSE  
Feature count    ⇔ 1  
Spatial index    ⇔ TRUE  
Linear referencing    ⇔ FALSE

ArcGIS Feature Class Properties ►

Feature class name    UtahStateBoundary  
Feature type    ⇔ Simple  
Geometry type    ⇔ Polygon  
Has topology    ⇔ FALSE  
Feature count    ⇔ 1  
Spatial index    ⇔ TRUE  
Linear referencing    ⇔ FALSE

ArcGIS Feature Class Properties ►

Feature class name    GeologicPoints  
Feature type    ⇔ Simple  
Geometry type    ⇔ Point  
Has topology    ⇔ FALSE  
Feature count    ⇔ 24  
Spatial index    ⇔ TRUE  
Linear referencing    ⇔ FALSE

ArcGIS Feature Class Properties ►

Feature class name    GeologicUnits\_labels  
Feature type    ⇔ Annotation  
Geometry type    ⇔ Polygon  
Has topology    ⇔ FALSE  
Feature count    ⇔ 378  
Spatial index    ⇔ TRUE  
Linear referencing    ⇔ FALSE

Data Quality ►

Scope of quality information ►

Resource level    dataset

Data quality report - Conceptual consistency ►

Data quality measure reference

Measure description

This geodatabase is a composite geodataset that encapsulates the spatial and non-spatial data needed to depict and describe the geology of the map area, and to create the accompanying cartographic map product. The geodatabase conforms to the GeMS standard, except for deviations noted in the Lineage section of the metadata record.

Data quality report - Completeness omission ►

Data quality measure reference

Measure description

The geodatabase contains all the schema and attribute elements required by the GeMS standard, unless otherwise noted in the Lineage section of the metadata record.

Lineage ►

Lineage statement

This interim map was prepared by the authors from 2024 to 2026, including all necessary field work. The authors compiled and mapped geology in the field and office using a combination of GPS-enabled tablets and computer-based Geographic Information Systems (GIS) equipped with georectified aerial imagery, lidar data, previously published geologic maps, topographic maps, and applications for digital attitude collection. Some mapping was done on stereographic pairs of natural color aerial photographs from the USDA National Agriculture Imagery Program (USDA NAIP, 2009). Most landslides, Quaternary deposits, lineaments, and some contacts were mapped using lidar elevation data (0.5-meter data [UGRC, 2018, 2020] and 1.0-meter data [UGRC 2020]). Line work was completed at a target scale of 1:24,000 using ESRI ArcGIS software, where the map was compiled, formatted, and completed. ArcGIS and Adobe Illustrator were used to create and compile Plate 2 materials.

Process step ►

When the process occurred 2021-09-12 00:00:00  
Description

The Utah Geological Survey (UGS) does not endorse any software products or manufacturers. Reference to any specific commercial product, process, or service by trade name, trademark, or otherwise, does not constitute endorsement or recommendation by the UGS. The UGS does not provide support for this digital dataset or any data files therein.

Process contact - originator

Individual's name UGS Geologic Mapping Program  
Organization's name Utah Geological Survey  
Contact's position GIS Analyst

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City Salt Lake City  
Administrative area Utah  
Postal code 84116-3154  
Country US  
Hours of service  
Monday - Friday 8 am - 5 pm

Process step ►

When the process occurred 2026-04-20 00:00:00  
Description

This GeMS submission has been validated as Level 2-compliant using the GeMS Validate Database tool called GeMS\_ValidateDatabase.py, version of 24 October 2024, version 2.13.3 for ArcGIS Pro with some deviations from GeMS standards. These deviations are described below. The decision to deviate was made, in most instances, because there was limited return on the time invested to comply precisely and/or it was unclear how to follow the standards more precisely. More details about the deviations or the reasons for them can be given at any time. Please note that because the data has not been reviewed, this list of deviations may change in the final version. The deviations from full GeMS compliance or standards are as follows:

- "CartographicPoints": Non-standard feature class of symbols representing cartographic features such as line decorations for faults and folds.
- "GeologicPoints": Non-standard feature class of geology-related symbols such as mines, quarries, gravel pits, springs, etc.
- Annotation feature classes: The UGS has a set of standards for geologic map publications that includes two annotation feature classes called "GeologicFeatures\_labels" and "MapUnitPolys\_labels". These feature classes have been included with this geodatabase.
- Utah State Boundary feature class: The UGS has a standard map layout for geologic map publications that includes a small statewide "inset" map. This requires the use of a feature class called "UtahStateBoundary" which contains one cartographic feature representing the boundary of Utah.
- Unknown numerical value: The UGS uses -9999 as a value in which a number is required for GeMS validation but which is unknown by the geologic mapper.
- "ParagraphStyle" field: The UGS has a unique Style Guide for all publications, the basis of which is a Microsoft Word template that contains Styles. Unfortunately, these Styles are different from those used by the USGS. Therefore, determining the correct value to put in the field called "ParagraphStyle" would require a complete re-formatting of the UGS Style Guide and, more specifically, of the templates used for our publications. For this reason, we have populated all units with "DMUUnit1" to meet Level 3 compliance.
- "HierarchyKey" field: The UGS has a set of GIS standards that follows a particular schema and within this schema, there is a value representing the hierarchy of each unit called "UnitRank". This value puts the geologic units on any given map in semi-stratigraphic order similar to the intention of the "HierarchyKey" field values. Because it would take a significant amount of time to build "HierarchyKey" values by hand (please see the discussion about the "ParagraphStyle" above) the use of "UnitRank" as is our standard has been employed in this submission.
- "Symbol" field: The UGS has a set of symbology standards that are not the same as FGDC standard symbols. Because these are the symbols used in the original publication, for the GeMS conversion, the same symbology – that is, the UGS symbology – was used here. The value in the field called "Symbol" matches the name of the feature in the LYRX that accompanies this submission.
- Left-hand rule: The UGS follows the left-hand rule when drawing lines. The LYRX files will allow the user to symbolize the lines correctly, but if the FGDC symbology is used, the lines or the symbols themselves will need to be flipped such that the line decorations face the correct direction.
- "AreaFillRGB" field: Please see the discussion about the "Symbol" field above. Because we are not using FGDC symbology, filling out this field will take a significant amount of time. Additionally, this field seems unnecessary for the user because we have supplied a LYRX with this submission.
- "AreaFillPatternDescription" field: Please see the discussions about the "Symbol" and "AreaFillRGB" fields above. Similar to the "AreaFillRGB" field, to populate the "AreaFillPatternDescription" field would take even longer. It also seems unnecessary for the user because we have supplied a LYRX with this submission.
- "DataSourceID" field for GenericPoints and GeologicPoints, "OrientationSourceID" field for OrientationPoints, and "DataSourcesID" field for DescriptionOfMapUnits table: The length of these fields has been increased to 100 to accommodate more characters.
- "Rotation" field: Added to relevant feature class(es) for use in accurate cartographic representation of a variety of point features.
- "DipDirection" field: Added to OrientationPoints feature class to record the azimuthal direction of dip of some feature types; also used to rotate points for cartographic display on the final layout.
- "PlotAtScale" field: Added to relevant feature class(es) to indicate the map scale at which the features should be plotted on a map.
- "Strike" field: Added to OrientationPoints feature class to record the right-hand-rule azimuth of the strike of planar geologic features. This azimuth is perpendicular, in an anti-clockwise direction, to the azimuth of dip direction of planar features, which is recorded in the "Azimuth" field.
- "Unnecessary map units in DescriptionOfMapUnits": The inclusion of these map units in the DescriptionOfMapUnits table is intentional because these units, while not present on the map (Plate 1), are present in other parts of the publication (e.g., cross sections, booklet, List of Map Units, and so on).

Distribution ►

Distribution format  
Name ⇌ File Geodatabase Feature Dataset

Transfer options

Online source  
Online location (URL) <https://doi.org/10.34191/OFR-780DM>

References ►

Aggregate Information  
Association type larger work citation

Aggregate resource name ►  
Title Interim geologic map of the Bryce Canyon quadrangle, Garfield County, Utah  
Publication date 2020-10-01 00:00:00

Edition 1.0

Series

Name Map  
Issue OFR-780DM  
Responsible party - originator  
Organization's name Utah Geological Survey

Contact information ►  
Phone  
Voice (801) 537-3300

Resource location online  
Online location (URL) <https://doi.org/10.34191/OFR-780DM>

Metadata Details ►

Metadata language English (UNITED STATES)  
Metadata character set utf8 - 8 bit UCS Transfer Format

Scope of the data described by the metadata dataset  
Scope name ⇔ dataset

Last update ⇔ 2026-05-05

ArcGIS metadata properties

Metadata format ArcGIS 1.0  
Metadata style FGDC CSDGM Metadata  
Standard or profile used to edit metadata FGDC

Created in ArcGIS for the item 2022-02-21 12:45:02  
Last modified in ArcGIS for the item 2026-05-05 85:42:60

Automatic updates

Have been performed Yes  
Last update 2026-05-04 11:58:30

Metadata Contacts ►

Metadata contact - point of contact

Individual's name Natural Resources Map & Bookstore  
Organization's name Utah Geological Survey  
Contact's position Publisher and distributor

Contact information ►

Phone  
Voice Local: (801) 537-3300  
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Address

Type physical  
Delivery point 1594 W. North Temple  
City Salt Lake City  
Administrative area Utah  
Postal code 84116-3154  
Country US

Hours of service  
Monday - Friday 10 am - 5 pm

Contact instructions  
Visit our Natural Resources Map & Bookstore at <https://www.utahmapstore.com/> for online ordering instructions.

Metadata Maintenance ►

Maintenance

Update frequency not planned

Metadata Constraints ►

Constraints

Limitations of use  
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