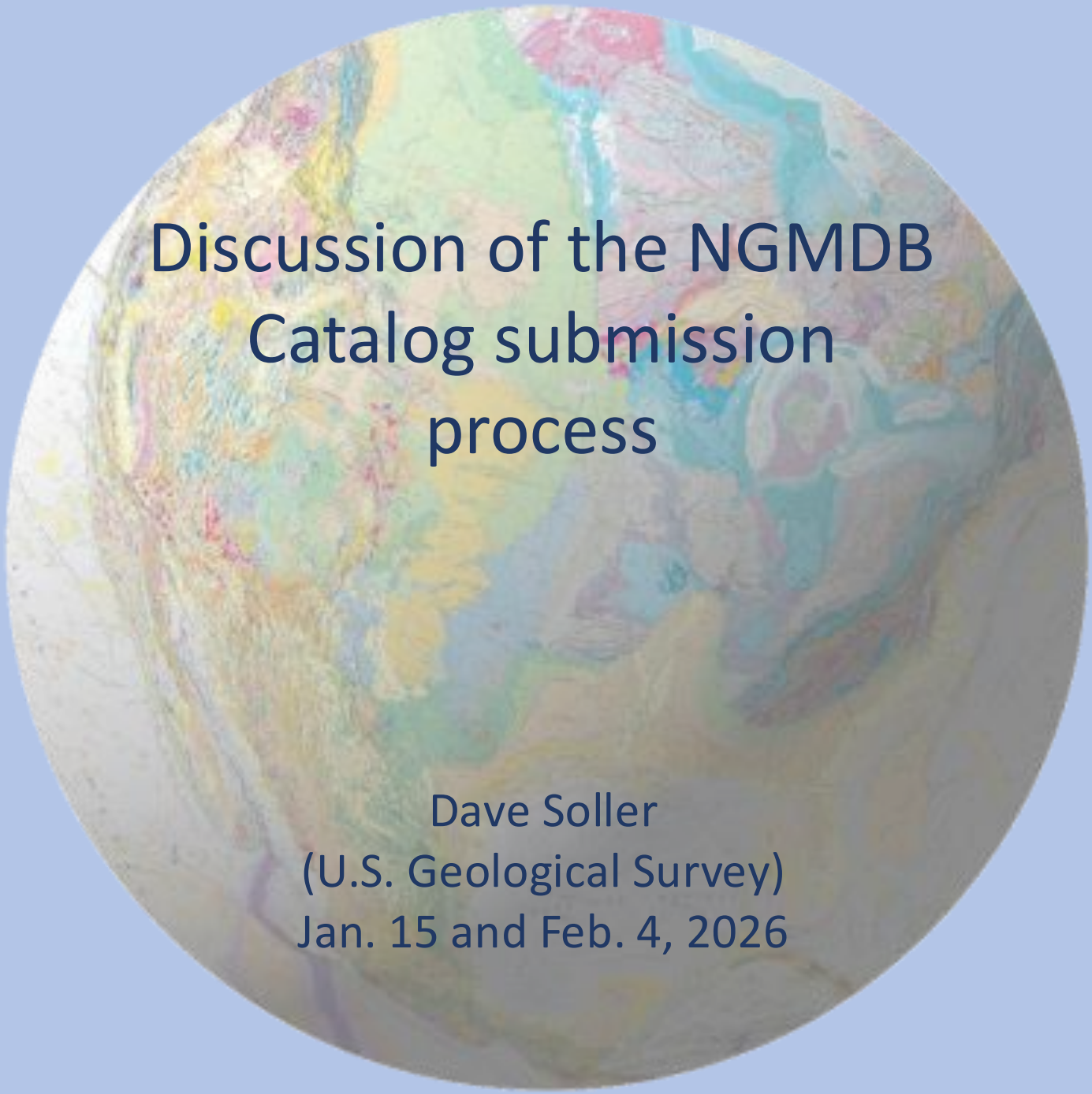


# Discussion of the NGMDB Catalog submission process

Dave Soller
(U.S. Geological Survey)
Jan. 15 and Feb. 4, 2026

# Purpose of this Webinar

This is an informal instructional session.

Therefore, please interrupt at any time to ask a question or make a suggestion.

We won't be recording the meeting, but an updated version of this Powerpoint will be posted or distributed.

Because this Powerpoint is intended to be distributed,
I apologize in advance if I read from the slides!

# USGS Division of labor

NGMDB is a team effort, with many (but not nearly enough) staff.
For today's topic, here are the principal contacts:

- Dave Soller evaluates and validates Catalog records submitted by States, processes the map images, makes corrections to existing records, and tags records for ImageContent and the performance metric. Jodi Burgess now creates Catalog records for USGS publications. Contact via drsoller@usgs.gov or ngmdb@usgs.gov.
- Rob Wardwell designs and manages the NGMDB database and repository (including images shown via the Catalog) and maintains the Web interfaces (e.g., the NGMDB Connect site). Contact via rwardwell@usgs.gov or ngmdb@usgs.gov.
- Rob and Dave work with the GeMS QC team (led by David Ahumada), to ensure coordination between Catalog records and GeMS packages. Contact via gemsqc@usgs.gov.

If in doubt about whom to contact, email ngmdb@usgs.gov and Dave and Rob will sort it out…

# Improving content of NGMDB Catalog records – why is this important?

NGMDB Website traffic is high. We send many users to your site to obtain publications and to learn about your agency.

In December 2025, >500,000 users made >1,000,000 visits to the NGMDB.
(That usage is split roughly into thirds, to the Catalog, Geolex, and TopoView.)

**A comprehensive NGMDB Catalog, with links to your site, boosts your Web metrics and supports your State's users!**

# NGMDB web usage pertinent to your State

## Web usage for NGMDB Product Description Pages beta

Internal PDP Metrics Viewer | Download Table (.xls)

Definitions for each Metric are found at the bottom of this page.

**Year:** 2025

**Agency:** Alaska Division of Geological & Geophysical Surveys

**Apply Filter**

| Year | Agency | Metric | Annual Total |
|---|---|---|---|
| 2025 | Alaska Division of Geological & Geophysical Surveys | Views - PDP in State | 119,311 |
| 2025 | Alaska Division of Geological & Geophysical Surveys | Views - PDP | 11,540 |
| 2025 | Alaska Division of Geological & Geophysical Surveys | Views - PDP with image | 5,906 |
| 2025 | Alaska Division of Geological & Geophysical Surveys | Views - PDP without image | 5,634 |
| 2025 | Alaska Division of Geological & Geophysical Surveys | Views - Online Map Image | 2,079 |
| 2025 | Alaska Division of Geological & Geophysical Surveys | Clicks - Publisher Link | 353 |
| 2025 | Alaska Division of Geological & Geophysical Surveys | Downloads - GeMS data | 97 |

**Available with NGMDB Connect login https://ngmdb.usgs.gov/connect/**

# General process for creating a publication record in NGMDB's Catalog

- You use the Input Form (https://ngmdb.usgs.gov/connect/) to submit a citation record to be added to NGMDB's Catalog.
- I give your submission a general inspection, make minor corrections and(or) ask you for clarifications.
- I then create a Product Description Page ("PDP") for the publication.

## Some details of the inspection process

For each submission, I do these general checks:

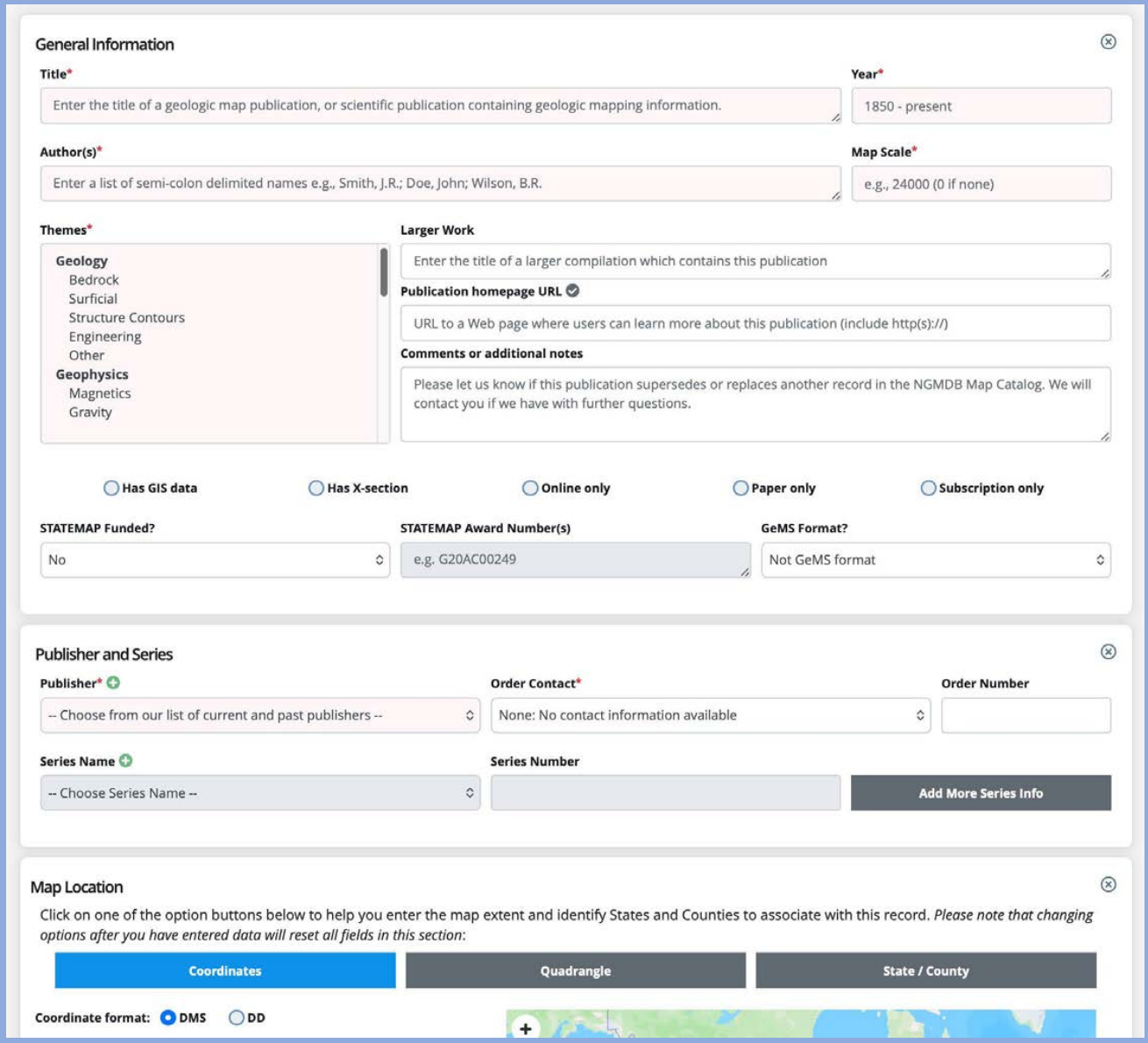
- Look for obvious spelling errors, omissions, and syntax errors (e.g., the Author field)
- Check the Comments field for any special instructions (e.g., to supersede a previous publication)
- Evaluate the URL that links back to the publication
- Download a copy of *all* PDFs for the publication
- Inspect the map PDF for obvious errors (e.g., wrong publication date)
- Compare the map's collar information to the submitted citation record
- Add or delete publication Themes based on what I find on the map and in the accompanying report.

## Some details of the inspection process, cont'd.

After validating a Catalog submission, I do these steps:

- Tag the map for the NCGMP performance metric.
- Tag the map and other plates for ImageContent.
- From the downloaded copies of all PDFs for the publication, the map(s) and other oversize plates are processed to the PDP to appear as viewable images.
- Other relevant content (e.g., a page-sized correlation chart) is processed to the PDP.
- Source PDFs are stored in NGMDB's non-public space, as a secondary backup for your State Survey.
- Periodically, all recently submitted PDPs are evaluated for maps to include in MapView.

# NGMDB Catalog Input Form
# via NGMDB Connect login (https://ngmdb.usgs.gov/connect/)



# NGMDB Input Form Documentation

Thank you for contributing to the National Geologic Map Database (NGMDB). This help page provides guidance for using the NGMDB Input Form. If you have any problems submitting records to the NGMDB, please post a Comment. You may also email us directly, with your questions.

**What kinds of maps may be contributed?**

The Congressional mandate for the National Geologic Map Database is NOT restricted to geologic maps! Instead, Congress stipulated the NGMDB to include maps and reports on geophysics, mineral resources, geochemistry, hydrogeology, hazards, paleontology, and related subjects as well as general geology and stratigraphy. The publications that you index here may be stand-alone geologic maps, or may contain any form of geoscience data, even if bound inside a book or journal.

**How do I submit a record using the Input Form?**

1. Complete the Input Form using the the field documentation shown below. Use the ⊗ button in the upper right corner of each section to reset the fields for that section individually. Required fields are indicated with a *.
2. Click **Preview Record** to inspect your record prior to submission. If form **errors** are detected, you will be asked to correct and re-submit the form before you will be able to preview your entry.
3. Inspect your record on the Preview page. Click **Make Changes** to revise your entry as many times as needed.
4. Click **Submit** to complete your transaction. **Please note that this step is required for us to receive your submission.**
5. That's it! After each submission, you will be redirected to a table summarizing your activity. You may load up a new Input Form, or click on to pre-populate another Input Form with data from a previously entered record. This may help reduce steps when entering many similar publications in succession.

**How do I track my submissions?**

This information is accessible on your personalized **Input History**. The link to your submission history is available in the main navigation bar when you are using the NGMDB Input Form. There, you may download a detailed listing of your past entries in Excel format. Additionally, you may sort the records table using the column headers, or click to enter a new record like any listed in the table.

# Input Form Field Reference

The field reference below provides detailed documentation for each field on the Input Form. The fields have been grouped into the same major sections found on the Input Form (General Information, Publisher and Series, and Map Location) and have been ordered as they appear on the form itself. Each field description describes the required data type (e.g. Text, Integer, URL, etc.) and each field section may be expanded or collapsed by clicking on the button.

## General Information Fields

The following fields are used to collect basic information about the publication record you are submitting, and will be used to facilitate search and discovery through the NGMDB Catalog.

**Title** (Text*)

**Author** (Delimited Text*)

**Year** (Four Digit Integer between 1800 and present*)

**Map Scale** (Integer - Enter 0 if this field is not applicable*)

# Coordinating with a GeMS submission

**Before you use the NGMDB Input Form**
**–Is the report available to the public?**

If the map or report is not yet published,
please don't submit a Catalog record.
Wait until it's published!

# Coordinating with a GeMS submission

When you submit a GeMS package to meet your deadline for deliverables, if the GeMS package isn't ready for public download please designate that submission as "Restricted."

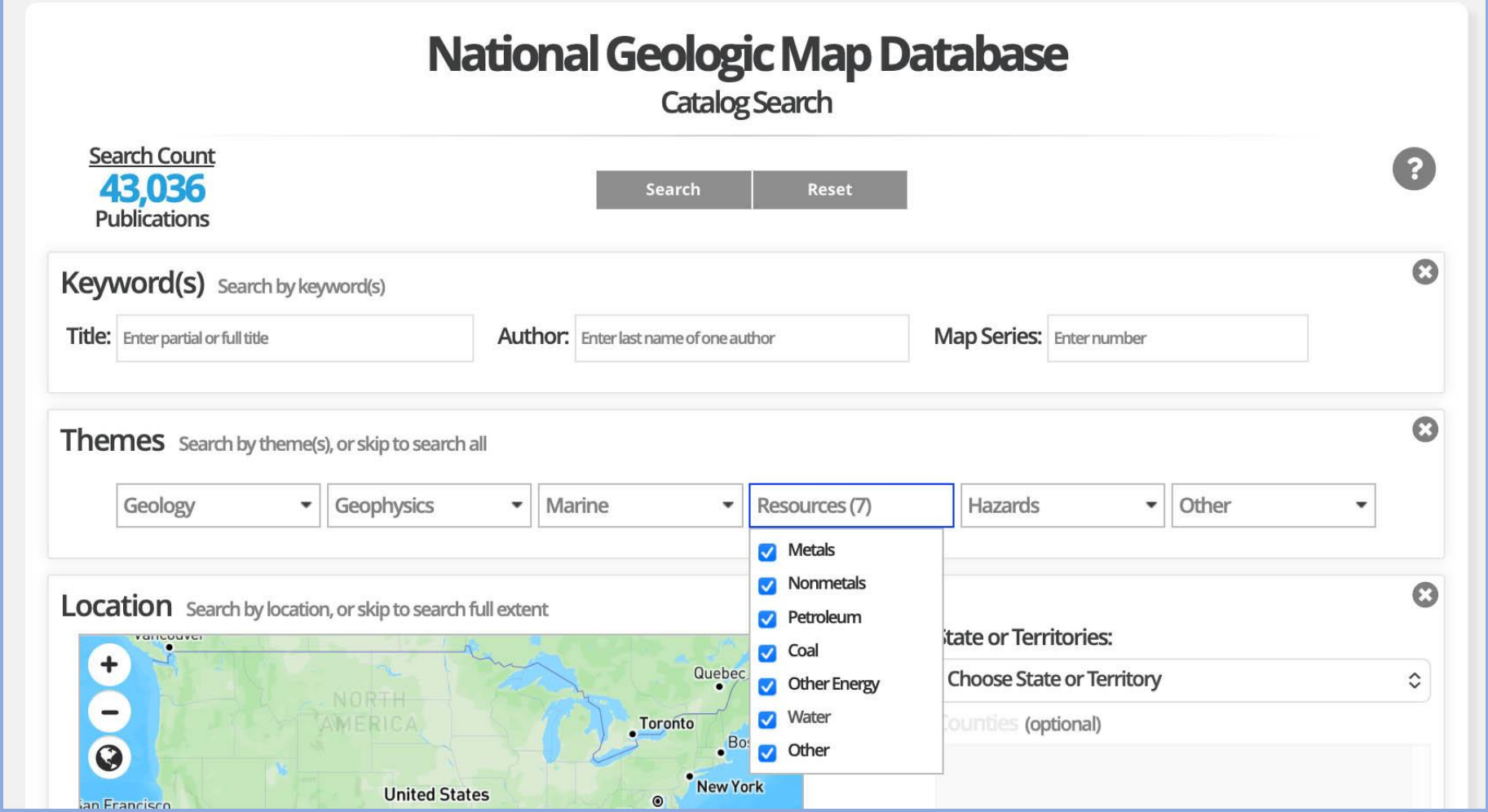
When the map or report that includes the GeMS package is published by your agency for public release, please then create a citation record using the Catalog Input Form.

NGMDB will then link the GeMS package to the PDP.

## What types of publications can be included?

As mandated in the National Geologic Mapping Act, the NGMDB is intended to support decisionmaking on, e.g., earth resources, hazards, and land-use planning.

**Therefore, please strongly consider adding Catalog records for new, and older, publications that are not geologic maps! A fully comprehensive NGMDB Catalog will direct more users to your site and ensure that it's the Nation's authoritative source for geologic maps and related published geoscience information.**




>43,000 of the >113,500 records in the Catalog are focused on earth resources, not specifically on geologic maps.

# A stroll through the fields…

## General Information

**Title*** Enter the title of a geologic map publication, or scientific publication containing geologic mapping information.

**Year*** 1850 - present

**Author(s)*** Enter a list of semi-colon delimited names e.g., Smith, J.R.; Doe, John; Wilson, B.R.

**Map Scale*** e.g., 24000 (0 if none)

**Themes***

- **Geology**
  - Bedrock
  - Surficial
  - Structure Contours
  - Engineering
  - Other
- **Geophysics**
  - Magnetics
  - Gravity

**Larger Work** Enter the title of a larger compilation which contains this publication

**Publication homepage URL** URL to a Web page where users can learn more about this publication (include http(s)://)

**Comments or additional notes** Please let us know if this publication supersedes or replaces another record in the NGMDB Map Catalog. We will contact you if we have with further questions.

○ Has GIS data ○ Has X-section ○ Online only ○ Paper only ○ Subscription only

**STATEMAP Funded?** No

**STATEMAP Award Number(s)** e.g. G20AC00249

**GeMS Format?** Not GeMS format

## Publisher and Series

**Publisher*** -- Choose from our list of current and past publishers --

**Order Contact*** None: No contact information available

**Order Number**

**Series Name** -- Choose Series Name --

**Series Number**

Add More Series Info

## Map Location

Click on one of the option buttons below to help you enter the map extent and identify States and Counties to associate with this record. *Please note that changing options after you have entered data will reset all fields in this section*:

Coordinates | Quadrangle | State / County

**Coordinate format:** ● DMS ○ DD

# Title field (free text)

**Title case** – “Geohydrologic Evaluation of the Upper Part of the Mesaverde Group, Northwestern Colorado”

**Sentence case** – “Geohydrologic evaluation of the upper part of the Mesaverde Group, northwestern Colorado”

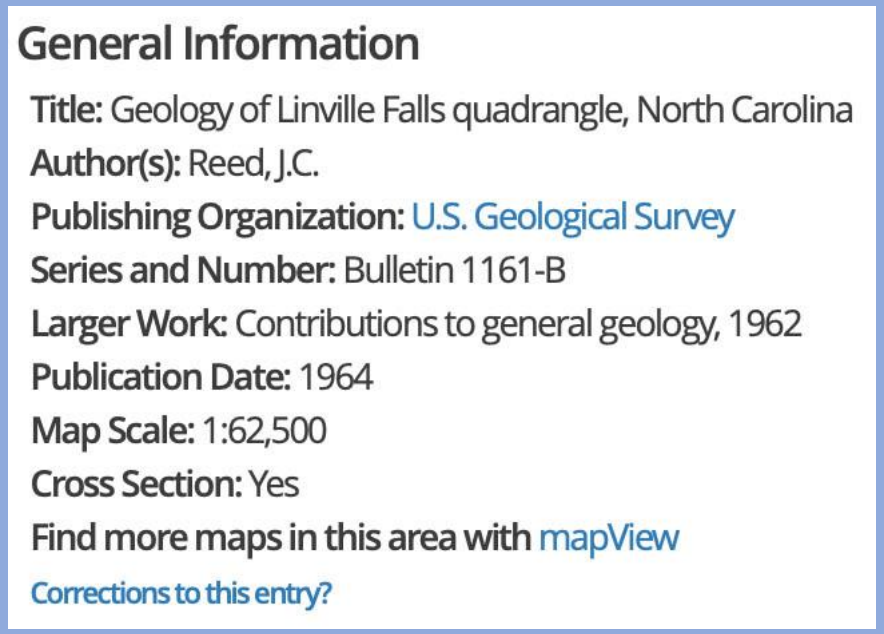
***Sentence case is preferred because it highlights important geologic and geographic words.***

# Larger Work field (free text)

The Larger Work field is useful when a publication is a chapter of a more general publication.

For example, “Geology of Linville Falls quadrangle, North Carolina” is the Title of the report, and “Contributions to general geology, 1962” is the Larger Work (https://ngmdb.usgs.gov/Prodesc/proddesc_20912.htm).

---



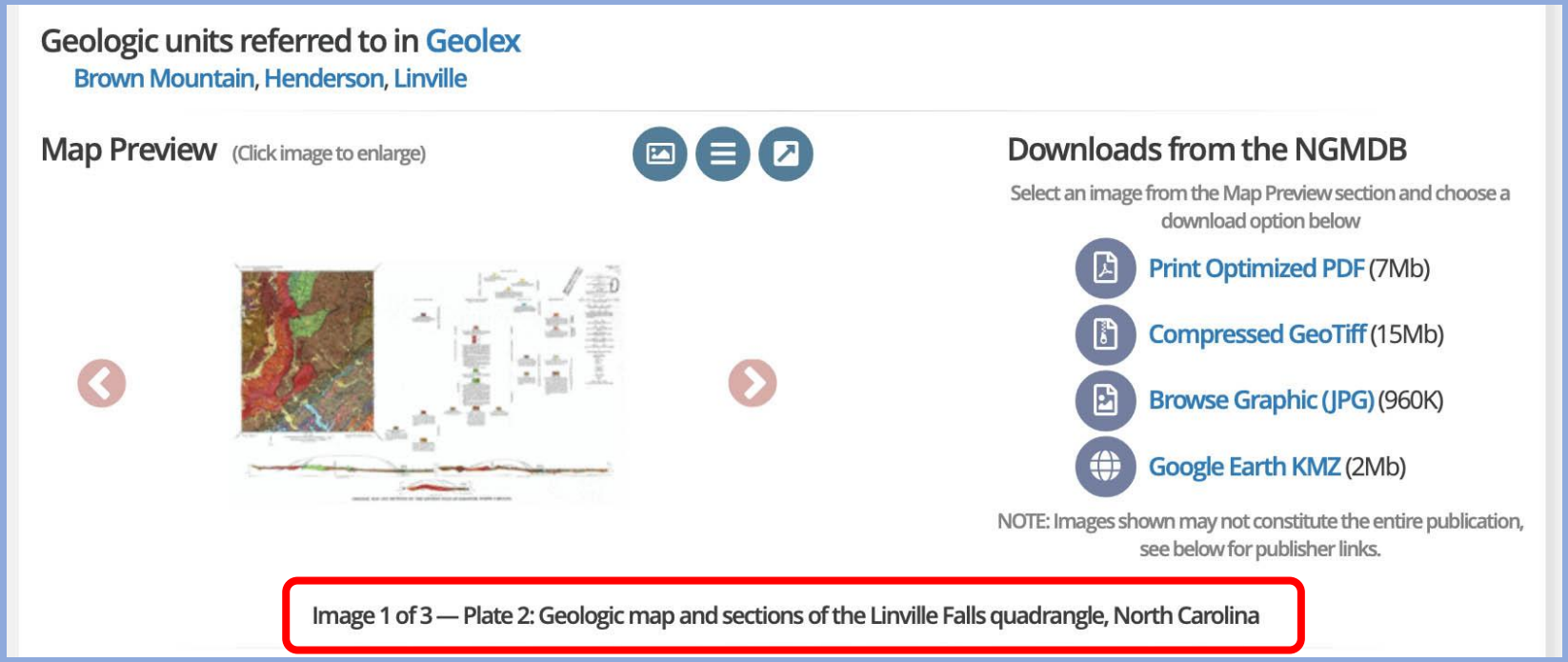
## General Information

**Title:** Geology of Linville Falls quadrangle, North Carolina
**Author(s):** Reed, J.C.
**Publishing Organization:** U.S. Geological Survey
**Series and Number:** Bulletin 1161-B
**Larger Work:** Contributions to general geology, 1962
**Publication Date:** 1964
**Map Scale:** 1:62,500
**Cross Section:** Yes
**Find more maps in this area with** mapView
Corrections to this entry?

# Larger Work field (free text)

Please don’t use the Larger Work field for the name of a report that includes a map whose title you’ve entered in the Title field.

Instead, the Title should be the name of the report as cataloged by your agency. NGMDB will create a "Sheet Title" that shows the map’s title, just below the viewable image.



# Author field (required syntax)

Please use this required syntax -- “Lastname, F.M.” with authors separated by semicolons.
*If you don’t, I must correct it !*

Also, please include middle initials if possible, for two reasons:

- The Author name string can be a challenge to mentally parse –e.g., “Kwiatkowski, Chad, Blackford, Nolan, Ma, Chong, and Mako, Calvin”
- A literature search for publications by a certain author is less than optimal when only the first name or initial is shown.
  For example – there are many authors “Smith, J.”, but far fewer “Smith, J.F.”

# Theme field (controlled term list)

Focus on the main aspects of the map and report (i.e., no need to “overtag”).

But please tag content that you judge to be potentially important to future work, such as geochronology, structure contours, etc., even if it’s just in a table or an inset map. For example, a few geochron dates in a table, fossil collection sites and numbers, an inset map showing Bouguer gravity…

Note that a map of the geology at land surface isn’t necessarily a Surficial geologic map!

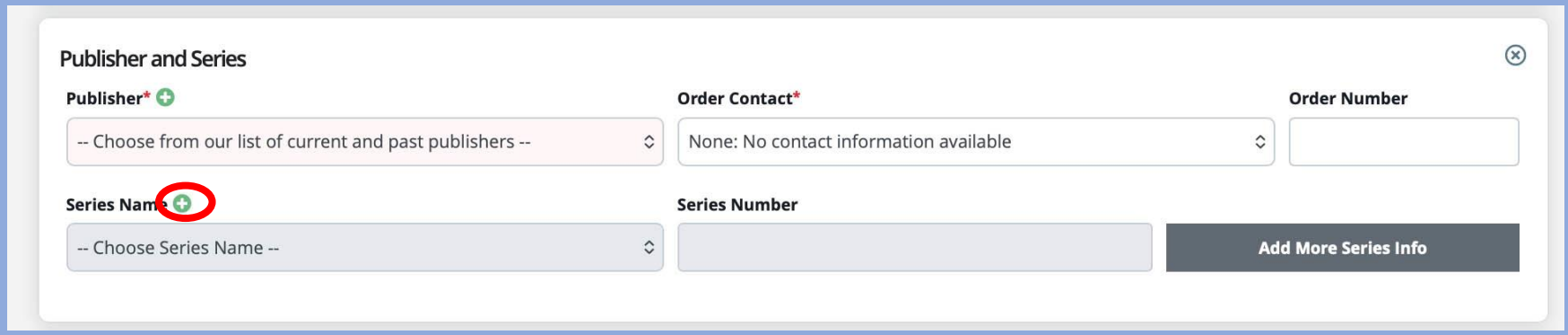
Many geologic maps show both bedrock and surficial geologic units and should be tagged accordingly.

# SeriesName and Number

Be consistent with your syntax for the Series Number. When in doubt, check some older PDPs of your agency's publications to see how it was done in the past.

If you see issues with the syntax, contact me to obtain a full listing of your agency's publications. Corrections can then be scripted…

We encourage you to add publications from Series not already represented in the NGMDB Catalog:

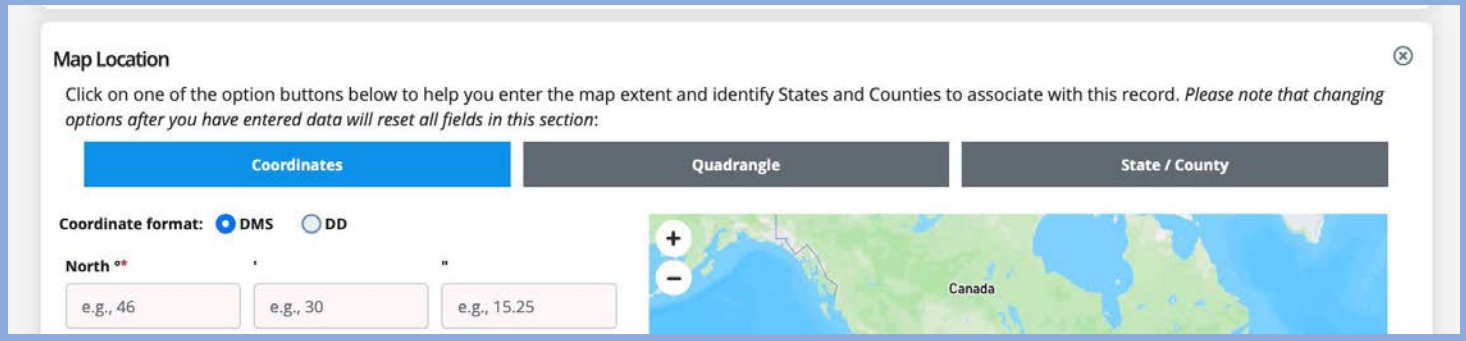


# Bounding Coordinates

**County or an entire quadrangle:** If the map is of a county or an entire quadrangle, the Input Form will populate these fields for you. PLEASE do not use GIS-generated bounding coords. If you do, please edit them to match the actual bounding coordinates.

**Partial quadrangle:** If the map is of a partial quadrangle and if you select the quad name to populate the fields, PLEASE adjust the coords to include ONLY the mapped area. This is critical for the performance metric!

**Irregular area:** If the map is of an irregular area, use the GIS-generated coords if you have them, otherwise just do the best you can to estimate the bounding box.



# Publication URL

**This is a REALLY important field!**

If a link isn't provided, or if the link eventually breaks because of a change in your agency's IT infrastructure, then we:

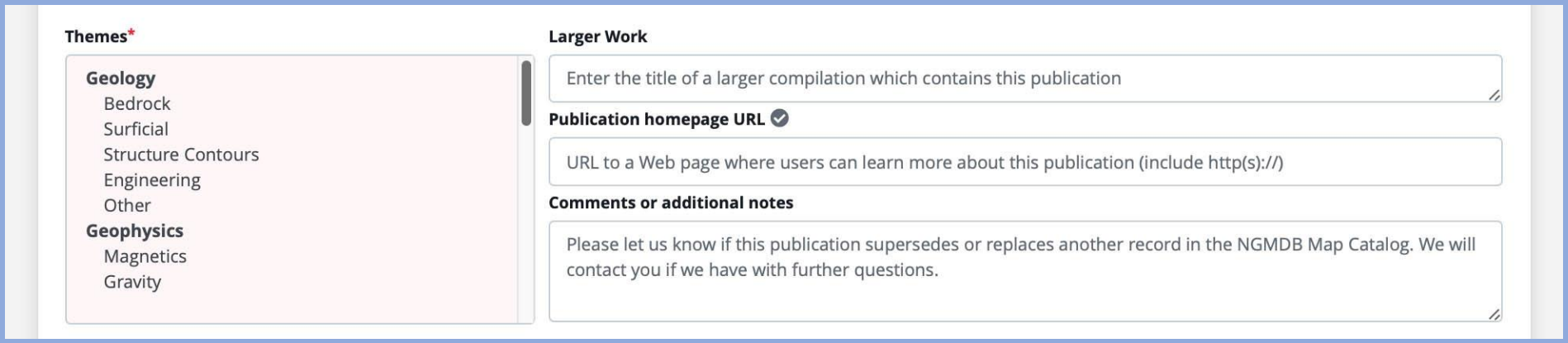
- Can't send users to your site *(which limits the Web traffic that we report to you)*
- Can't download the map and show it at the PDP *(viewable images motivate users to visit your site and get the publication)*
- Can't evaluate the map for including in the annual performance metric that NCGMP must report to the Office of Management and Budget.

# Publication URL

When you enter the URL, on rare occasions our system will reject it.

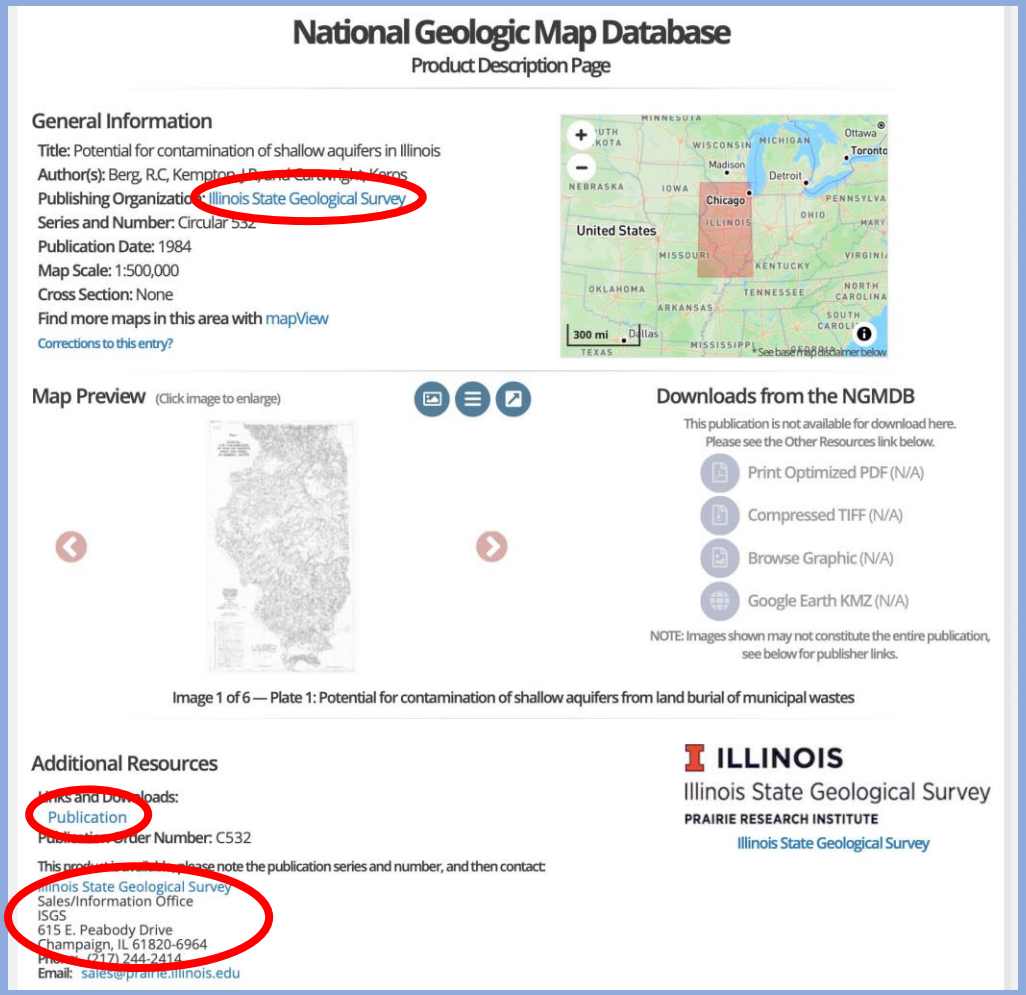
Not to worry!

Just paste the URL into the “Comments or additional notes” field and indicate that it failed.  We’ll test it and, if it’s valid (as it almost certainly is), we’ll add it to the record.



# Publication URL

PLEASE occasionally check the Publisher, Order Contact, and Publication links at one of your agency's PDPs!  Let us know what's broken, so your Web traffic from NGMDB doesn't suffer.



# Obtaining a PDF(s) of the map and report

Please don't assume that if a GeMS package contains a map graphic, it will be transmitted to me for viewing at the PDP.

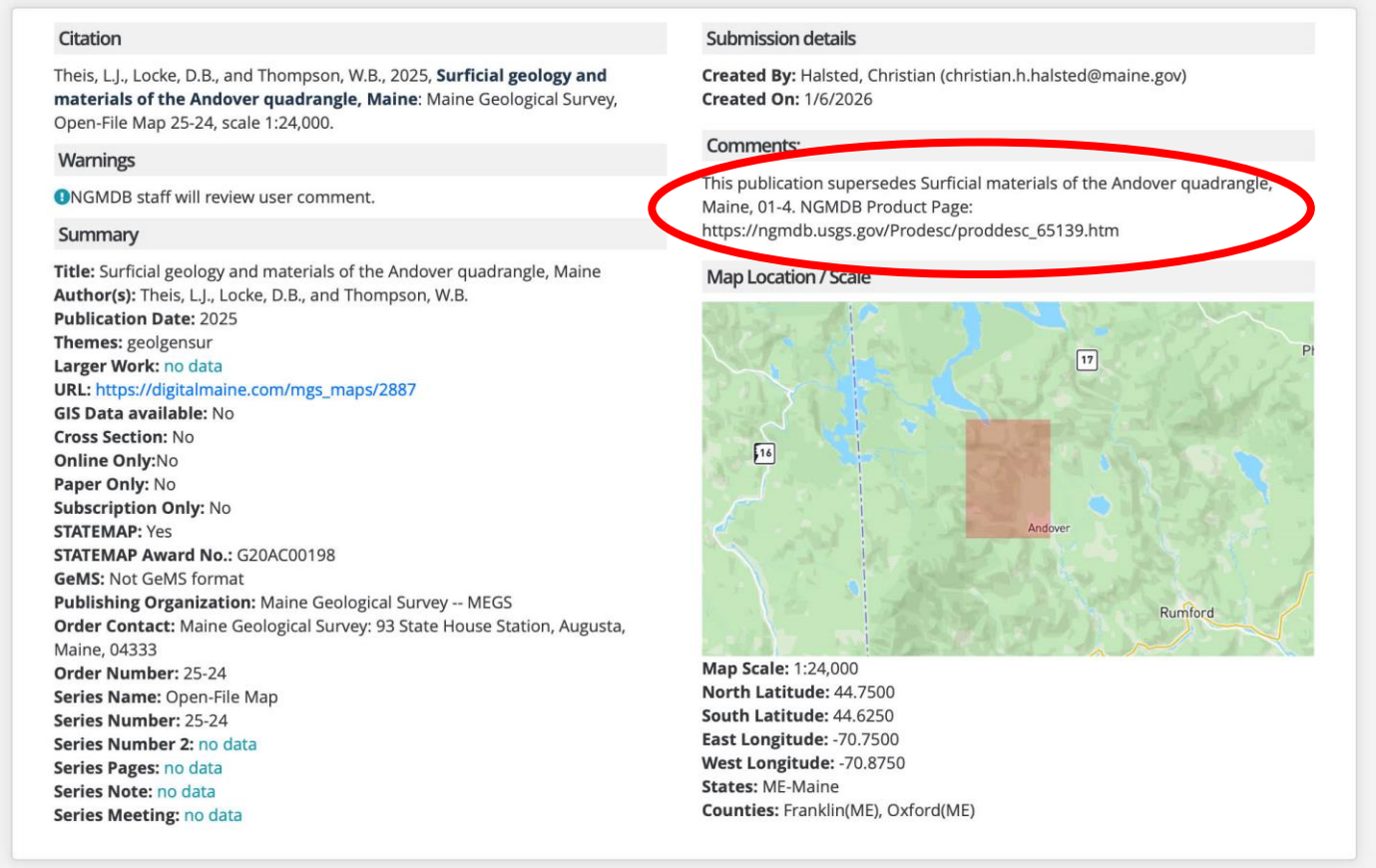
Even if that always occurred, the requirement for the GeMS package is for only the map sheet. In contrast, at the PDP all sheets are shown and, in some cases, inset figures and charts from the body of the report.

When you submit a citation record to the Catalog, if the published map or report isn't yet posted to your agency's site, send me the PDF(s) when they're posted, or notify me by email so I can download them. I can then complete work on the PDP (and include it in the performance metric).

# Special instructions to NGMDB

Use the “**Comments or additional notes**” field in the Input Form.

This is especially useful for sending us instructions, such as when an older publication is superseded by the one you’re submitting.



**Citation**

Theis, L.J., Locke, D.B., and Thompson, W.B., 2025, **Surficial geology and materials of the Andover quadrangle, Maine**: Maine Geological Survey, Open-File Map 25-24, scale 1:24,000.

**Warnings**

NGMDB staff will review user comment.

**Summary**

**Title:** Surficial geology and materials of the Andover quadrangle, Maine
**Author(s):** Theis, L.J., Locke, D.B., and Thompson, W.B.
**Publication Date:** 2025
**Themes:** geolgensur
**Larger Work:** no data
**URL:** https://digitalmaine.com/mgs_maps/2887
**GIS Data available:** No
**Cross Section:** No
**Online Only:**No
**Paper Only:** No
**Subscription Only:** No
**STATEMAP:** Yes
**STATEMAP Award No.:** G20AC00198
**GeMS:** Not GeMS format
**Publishing Organization:** Maine Geological Survey -- MEGS
**Order Contact:** Maine Geological Survey: 93 State House Station, Augusta, Maine, 04333
**Order Number:** 25-24
**Series Name:** Open-File Map
**Series Number:** 25-24
**Series Number 2:** no data
**Series Pages:** no data
**Series Note:** no data
**Series Meeting:** no data

**Submission details**

**Created By:** Halsted, Christian (christian.h.halsted@maine.gov)
**Created On:** 1/6/2026

**Comments:**

This publication supersedes Surficial materials of the Andover quadrangle, Maine, 01-4. NGMDB Product Page: https://ngmdb.usgs.gov/Prodesc/proddesc_65139.htm

**Map Location / Scale**



**Map Scale:** 1:24,000
**North Latitude:** 44.7500
**South Latitude:** 44.6250
**East Longitude:** -70.7500
**West Longitude:** -70.8750
**States:** ME-Maine
**Counties:** Franklin(ME), Oxford(ME)

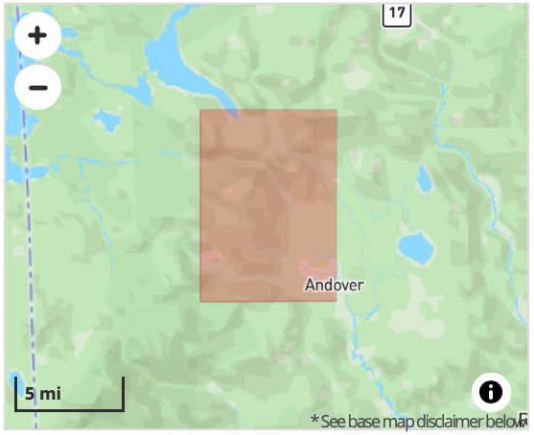
We then add a Title link to the superseded publication, to direct users to the new publication.

# National Geologic Map Database

## Product Description Page

### General Information

**Title:** Surficial Materials in the Andover Quadrangle, Maine [superseded by Open-File Map 25-24]
**Author(s):** Thompson, W.B.
**Publishing Organization:** Maine Geological Survey
**Series and Number:** Open-File 01-4
**Publication Date:** 2001
**Map Scale:** 1:24,000
**Cross Section:** None
**Find more maps in this area with** mapView
Corrections to this entry?




### Map Preview (Click image to enlarge)

### Downloads from the NGMDB

This publication is not available for download here.
Please see the Other Resources link below.

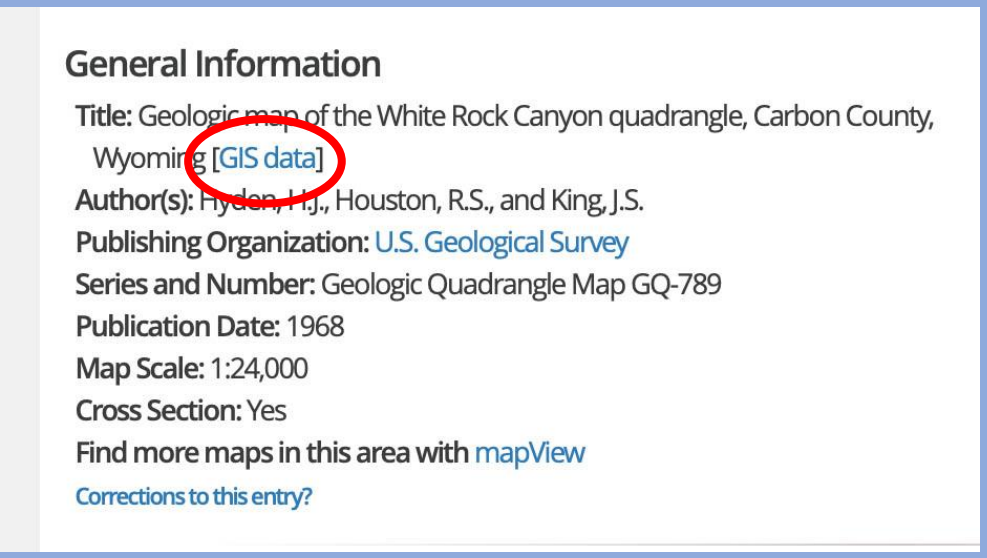
- Print Optimized PDF (N/A)
- Compressed TIFF (N/A)
- Browse Graphic (N/A)
- Google Earth KMZ (N/A)

NOTE: Images shown may not constitute the entire publication, see below for publisher links.

# Special instructions to NGMDB

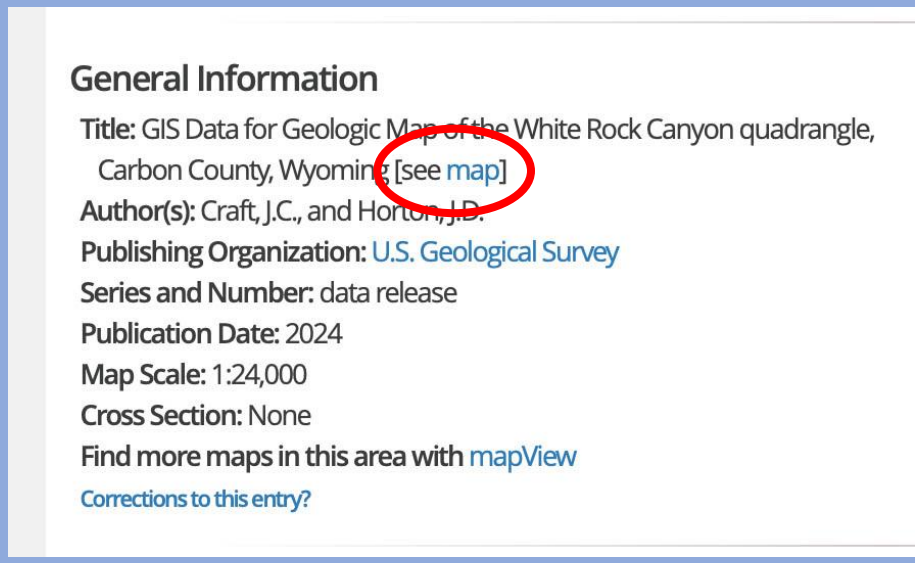
Also, use the **"Comments or additional notes"** field in the Input Form for sending us instructions for cross-linking products.

For example, the PDPs for a source map and a database –we cross-link the two PDPs.



General Information

**Title:** Geologic map of the White Rock Canyon quadrangle, Carbon County, Wyoming [GIS data]
**Author(s):** Hyden, H.J., Houston, R.S., and King, J.S.
**Publishing Organization:** U.S. Geological Survey
**Series and Number:** Geologic Quadrangle Map GQ-789
**Publication Date:** 1968
**Map Scale:** 1:24,000
**Cross Section:** Yes
**Find more maps in this area with** mapView
Corrections to this entry?



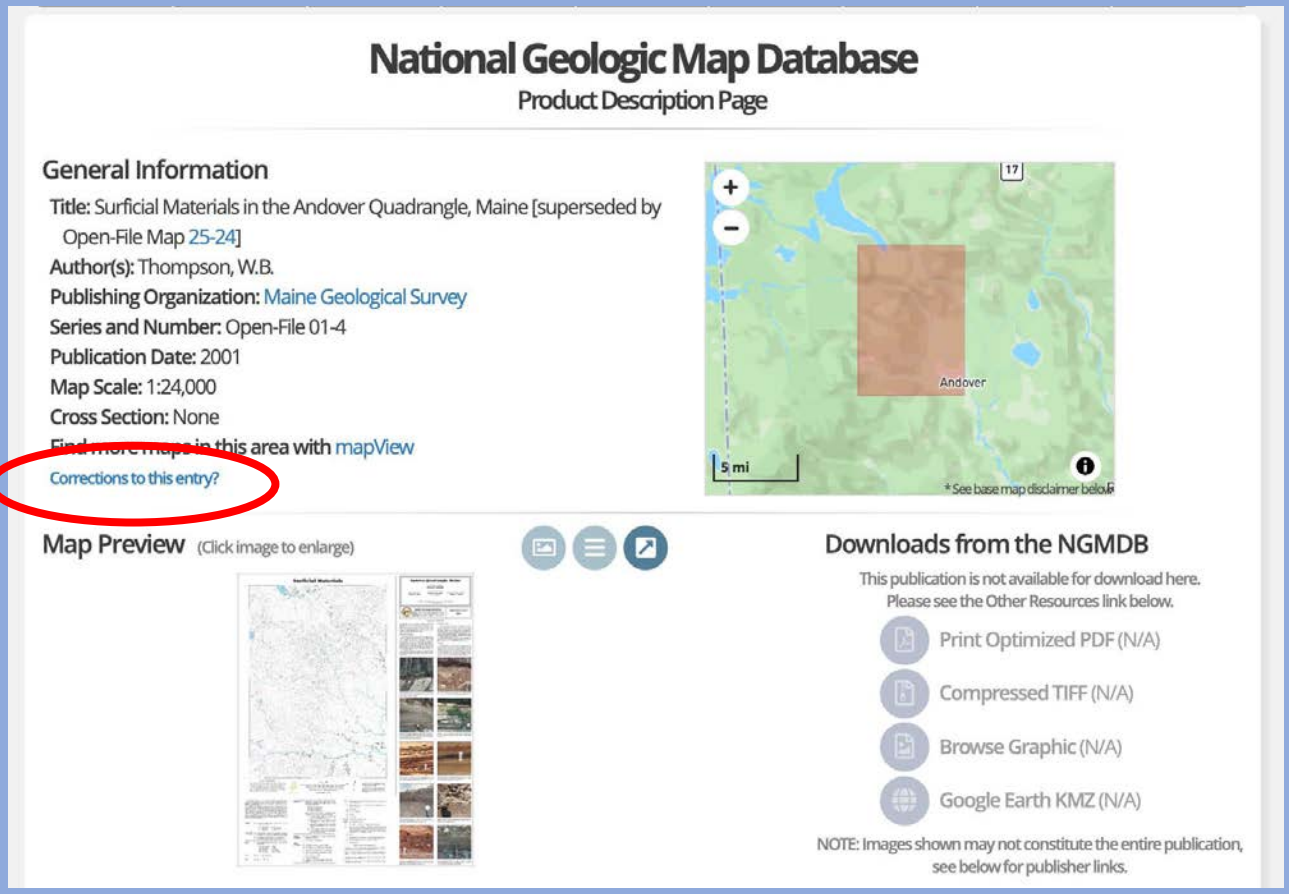
General Information

**Title:** GIS Data for Geologic Map of the White Rock Canyon quadrangle, Carbon County, Wyoming [see map]
**Author(s):** Craft, J.C., and Horton, J.D.
**Publishing Organization:** U.S. Geological Survey
**Series and Number:** data release
**Publication Date:** 2024
**Map Scale:** 1:24,000
**Cross Section:** None
**Find more maps in this area with** mapView
Corrections to this entry?

# Sending requests and instructions to NGMDB

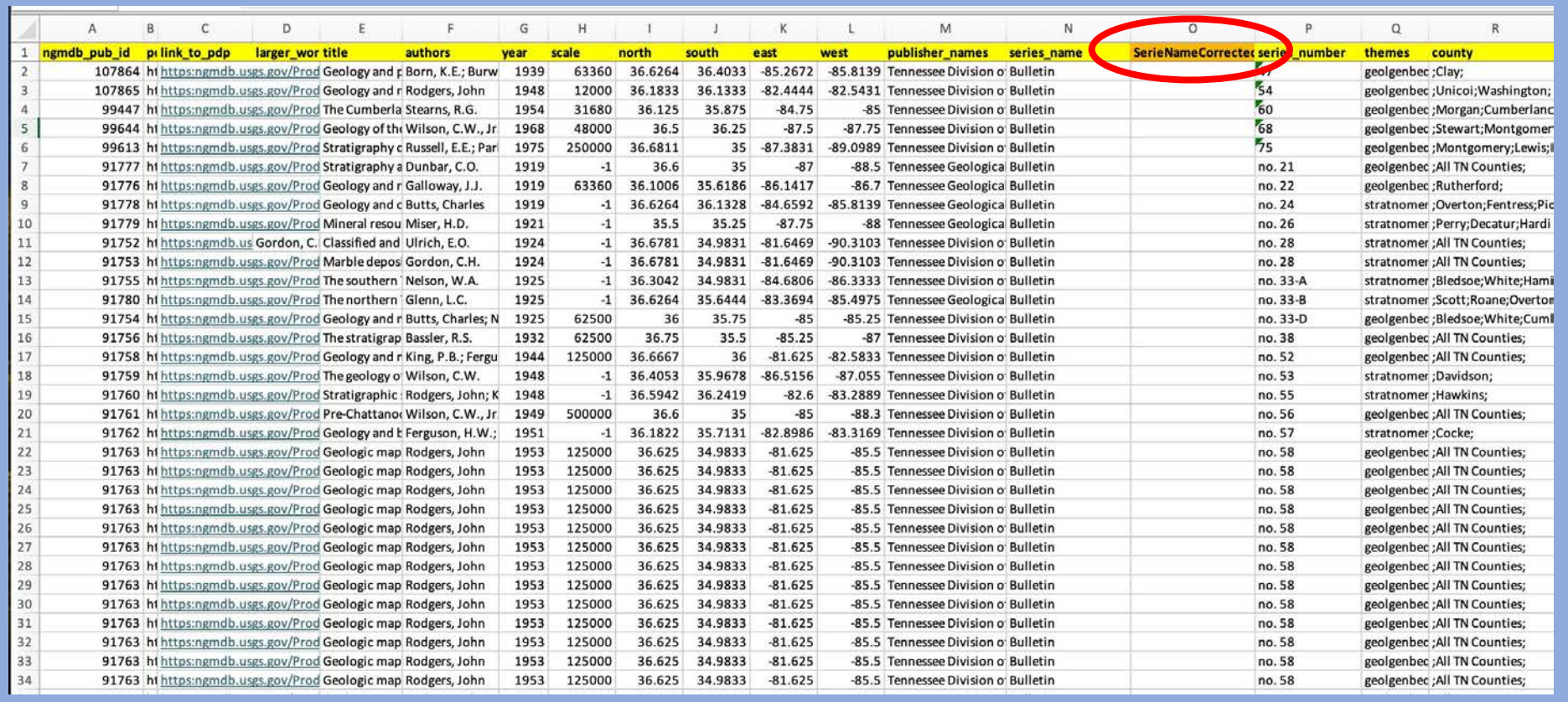
If you need a correction to an existing PDP, you can:

- Send me an email
- Use the “Corrections to this entry?” on the PDP.



You're encouraged to work with the NGMDB to make corrections and additions to your agency's PDPs. For example:

- We can send you a spreadsheet of all records by your agency, or in your State
- Add a column, insert your corrections
- We'll batch-process the corrections.



| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ngmdb_pub_id | pı | link_to_pdp | larger_wor | title | authors | year | scale | north | south | east | west | publisher_names | series_name | SerieNameCorrecte | serie_number | themes | county |
| 2 | 107864 | ht | https:ngmdb.usgs.gov/Prod | | Geology and p | Born, K.E.; Burw | 1939 | 63360 | 36.6264 | 36.4033 | -85.2672 | -85.8139 | Tennessee Division o | Bulletin | | 47 | geolgenbec | ;Clay; |
| 3 | 107865 | ht | https:ngmdb.usgs.gov/Prod | | Geology and r | Rodgers, John | 1948 | 12000 | 36.1833 | 36.1333 | -82.4444 | -82.5431 | Tennessee Division o | Bulletin | | 54 | geolgenbec | ;Unicoi;Washington; |
| 4 | 99447 | ht | https:ngmdb.usgs.gov/Prod | | The Cumberla | Stearns, R.G. | 1954 | 31680 | 36.125 | 35.875 | -84.75 | -85 | Tennessee Division o | Bulletin | | 60 | geolgenbec | ;Morgan;Cumberlanc |
| 5 | 99644 | ht | https:ngmdb.usgs.gov/Prod | | Geology of the | Wilson, C.W., Jr | 1968 | 48000 | 36.5 | 36.25 | -87.5 | -87.75 | Tennessee Division o | Bulletin | | 68 | geolgenbec | ;Stewart;Montgomer |
| 6 | 99613 | ht | https:ngmdb.usgs.gov/Prod | | Stratigraphy c | Russell, E.E.; Par | 1975 | 250000 | 36.6811 | 35 | -87.3831 | -89.0989 | Tennessee Division o | Bulletin | | 75 | geolgenbec | ;Montgomery;Lewis;I |
| 7 | 91777 | ht | https:ngmdb.usgs.gov/Prod | | Stratigraphy a | Dunbar, C.O. | 1919 | -1 | 36.6 | 35 | -87 | -88.5 | Tennessee Geologica | Bulletin | | no. 21 | geolgenbec | ;All TN Counties; |
| 8 | 91776 | ht | https:ngmdb.usgs.gov/Prod | | Geology and r | Galloway, J.J. | 1919 | 63360 | 36.1006 | 35.6186 | -86.1417 | -86.7 | Tennessee Geologica | Bulletin | | no. 22 | geolgenbec | ;Rutherford; |
| 9 | 91778 | ht | https:ngmdb.usgs.gov/Prod | | Geology and c | Butts, Charles | 1919 | -1 | 36.6264 | 36.1328 | -84.6592 | -85.8139 | Tennessee Geologica | Bulletin | | no. 24 | stratnomer | ;Overton;Fentress;Pic |
| 10 | 91779 | ht | https:ngmdb.usgs.gov/Prod | | Mineral resou | Miser, H.D. | 1921 | -1 | 35.5 | 35.25 | -87.75 | -88 | Tennessee Geologica | Bulletin | | no. 26 | stratnomer | ;Perry;Decatur;Hardi |
| 11 | 91752 | ht | https:ngmdb.us | Gordon, C. | Classified and | Ulrich, E.O. | 1924 | -1 | 36.6781 | 34.9831 | -81.6469 | -90.3103 | Tennessee Division o | Bulletin | | no. 28 | stratnomer | ;All TN Counties; |
| 12 | 91753 | ht | https:ngmdb.usgs.gov/Prod | | Marble depos | Gordon, C.H. | 1924 | -1 | 36.6781 | 34.9831 | -81.6469 | -90.3103 | Tennessee Division o | Bulletin | | no. 28 | stratnomer | ;All TN Counties; |
| 13 | 91755 | ht | https:ngmdb.usgs.gov/Prod | | The southern | Nelson, W.A. | 1925 | -1 | 36.3042 | 34.9831 | -84.6806 | -86.3333 | Tennessee Division o | Bulletin | | no. 33-A | stratnomer | ;Bledsoe;White;Hami |
| 14 | 91780 | ht | https:ngmdb.usgs.gov/Prod | | The northern | Glenn, L.C. | 1925 | -1 | 36.6264 | 35.6444 | -83.3694 | -85.4975 | Tennessee Geologica | Bulletin | | no. 33-B | stratnomer | ;Scott;Roane;Overtor |
| 15 | 91754 | ht | https:ngmdb.usgs.gov/Prod | | Geology and r | Butts, Charles; N | 1925 | 62500 | 36 | 35.75 | -85 | -85.25 | Tennessee Division o | Bulletin | | no. 33-D | geolgenbec | ;Bledsoe;White;Cuml |
| 16 | 91756 | ht | https:ngmdb.usgs.gov/Prod | | The stratigrap | Bassler, R.S. | 1932 | 62500 | 36.75 | 35.5 | -85.25 | -87 | Tennessee Division o | Bulletin | | no. 38 | geolgenbec | ;All TN Counties; |
| 17 | 91758 | ht | https:ngmdb.usgs.gov/Prod | | Geology and r | King, P.B.; Fergu | 1944 | 125000 | 36.6667 | 36 | -81.625 | -82.5833 | Tennessee Division o | Bulletin | | no. 52 | geolgenbec | ;All TN Counties; |
| 18 | 91759 | ht | https:ngmdb.usgs.gov/Prod | | The geology o | Wilson, C.W. | 1948 | -1 | 36.4053 | 35.9678 | -86.5156 | -87.055 | Tennessee Division o | Bulletin | | no. 53 | stratnomer | ;Davidson; |
| 19 | 91760 | ht | https:ngmdb.usgs.gov/Prod | | Stratigraphic | Rodgers, John; K | 1948 | -1 | 36.5942 | 36.2419 | -82.6 | -83.2889 | Tennessee Division o | Bulletin | | no. 55 | stratnomer | ;Hawkins; |
| 20 | 91761 | ht | https:ngmdb.usgs.gov/Prod | | Pre-Chattano | Wilson, C.W., Jr | 1949 | 500000 | 36.6 | 35 | -85 | -88.3 | Tennessee Division o | Bulletin | | no. 56 | geolgenbec | ;All TN Counties; |
| 21 | 91762 | ht | https:ngmdb.usgs.gov/Prod | | Geology and b | Ferguson, H.W.; | 1951 | -1 | 36.1822 | 35.7131 | -82.8986 | -83.3169 | Tennessee Division o | Bulletin | | no. 57 | stratnomer | ;Cocke; |
| 22 | 91763 | ht | https:ngmdb.usgs.gov/Prod | | Geologic map | Rodgers, John | 1953 | 125000 | 36.625 | 34.9833 | -81.625 | -85.5 | Tennessee Division o | Bulletin | | no. 58 | geolgenbec | ;All TN Counties; |
| 23 | 91763 | ht | https:ngmdb.usgs.gov/Prod | | Geologic map | Rodgers, John | 1953 | 125000 | 36.625 | 34.9833 | -81.625 | -85.5 | Tennessee Division o | Bulletin | | no. 58 | geolgenbec | ;All TN Counties; |
| 24 | 91763 | ht | https:ngmdb.usgs.gov/Prod | | Geologic map | Rodgers, John | 1953 | 125000 | 36.625 | 34.9833 | -81.625 | -85.5 | Tennessee Division o | Bulletin | | no. 58 | geolgenbec | ;All TN Counties; |
| 25 | 91763 | ht | https:ngmdb.usgs.gov/Prod | | Geologic map | Rodgers, John | 1953 | 125000 | 36.625 | 34.9833 | -81.625 | -85.5 | Tennessee Division o | Bulletin | | no. 58 | geolgenbec | ;All TN Counties; |
| 26 | 91763 | ht | https:ngmdb.usgs.gov/Prod | | Geologic map | Rodgers, John | 1953 | 125000 | 36.625 | 34.9833 | -81.625 | -85.5 | Tennessee Division o | Bulletin | | no. 58 | geolgenbec | ;All TN Counties; |
| 27 | 91763 | ht | https:ngmdb.usgs.gov/Prod | | Geologic map | Rodgers, John | 1953 | 125000 | 36.625 | 34.9833 | -81.625 | -85.5 | Tennessee Division o | Bulletin | | no. 58 | geolgenbec | ;All TN Counties; |
| 28 | 91763 | ht | https:ngmdb.usgs.gov/Prod | | Geologic map | Rodgers, John | 1953 | 125000 | 36.625 | 34.9833 | -81.625 | -85.5 | Tennessee Division o | Bulletin | | no. 58 | geolgenbec | ;All TN Counties; |
| 29 | 91763 | ht | https:ngmdb.usgs.gov/Prod | | Geologic map | Rodgers, John | 1953 | 125000 | 36.625 | 34.9833 | -81.625 | -85.5 | Tennessee Division o | Bulletin | | no. 58 | geolgenbec | ;All TN Counties; |
| 30 | 91763 | ht | https:ngmdb.usgs.gov/Prod | | Geologic map | Rodgers, John | 1953 | 125000 | 36.625 | 34.9833 | -81.625 | -85.5 | Tennessee Division o | Bulletin | | no. 58 | geolgenbec | ;All TN Counties; |
| 31 | 91763 | ht | https:ngmdb.usgs.gov/Prod | | Geologic map | Rodgers, John | 1953 | 125000 | 36.625 | 34.9833 | -81.625 | -85.5 | Tennessee Division o | Bulletin | | no. 58 | geolgenbec | ;All TN Counties; |
| 32 | 91763 | ht | https:ngmdb.usgs.gov/Prod | | Geologic map | Rodgers, John | 1953 | 125000 | 36.625 | 34.9833 | -81.625 | -85.5 | Tennessee Division o | Bulletin | | no. 58 | geolgenbec | ;All TN Counties; |
| 33 | 91763 | ht | https:ngmdb.usgs.gov/Prod | | Geologic map | Rodgers, John | 1953 | 125000 | 36.625 | 34.9833 | -81.625 | -85.5 | Tennessee Division o | Bulletin | | no. 58 | geolgenbec | ;All TN Counties; |
| 34 | 91763 | ht | https:ngmdb.usgs.gov/Prod | | Geologic map | Rodgers, John | 1953 | 125000 | 36.625 | 34.9833 | -81.625 | -85.5 | Tennessee Division o | Bulletin | | no. 58 | geolgenbec | ;All TN Counties; |

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