

# DIGITAL MAPPING TECHNIQUES 2026

The following was presented at DMT '26  
May 10 - 13, 2026

The contents of this document are provisional

See Presentations and Proceedings  
from the DMT Meetings (1997-2026)  
<http://ngmdb.usgs.gov/info/dmt/>



Extension

UNIVERSITY OF WISCONSIN-MADISON

# WGNHS Data Management Plan

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# The Process

- **Data is used/modified/created for a project**
- **Final official project data goes out with the publication**

# The Problem

**Additional unpublished data is useful for other projects, but:**

- **No formal project closeout process**
- **Data is stored by project**
- **Only the authors/PI know about it**
- **Staff turnover**
- **Increasing file storage costs**

# The Problem: an Example

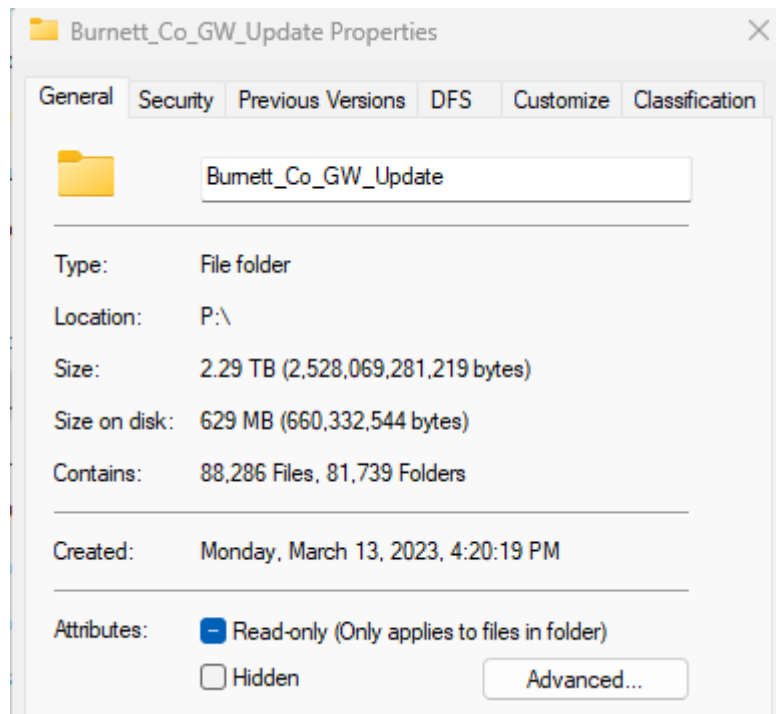
Where's our passive seismic D2B data?

- P:\Depth\_to\_Bedrock\_DATCP\FieldData\Field\_PassiveSeismic\_Outcrop\_Quarry\PassiveSeismic
- P:\GLRI\_Lake\_Superior\Data\Fieldwork\Field equipment\Surveys
- P:\Geophysical\_Surveys
- S:\Geophysics\Passive Seismic
- P:\Passive\_Seismic\_Compilation\Data\Working files and data
- ... & More!

# The Problem: an Example

## Burnett County Hydrogeologic Atlas

- Published data package = 36 MB
- Project data folder = 2.3 TB



# The Solution (in dev.)

WGNHS has organized a “Strategic Planning Data Preservation” committee to tackle this problem.

## Online guides

- <https://researchdata.wisc.edu/how-to-create-a-dmp/>
- <https://dmptool.org/>
- **TL;DR! WGNHS needs something that is tailored to our org and is not a heavy lift for PIs**

# The Solution (in dev.)

## Simplified questionnaire

### Project Overview

- **Project Title:**
- **Project Purpose: What was the main goal or purpose of the project?**
- **Start and End Dates:**
- **Funder:**
- **What kind of Funding: What was this a grant you applied for, contract with a county, private organization? Etc**
- **Estimate amount of Funding:**
- **Principal Investigator (PI):**
- **Project Collaborators / Personnel: (internal and external)**

### Project Outputs

- **What were the main deliverables for this project?**
- **Were any publications planned or completed as a result of this project?**
- **If yes, where were they published?**
- **Was (or will) any data published as part of a publication or other public-facing project output? If so, which data and where is the public-facing version located?**

# The Solution (in dev.)

## Project Data

- **What existing datasets did you use for this project?**
  - Where are they located?
  - Is there an established workflow for storing and retrieving this data? If so, please describe it.
  - Were the data modified for use in this project?
- **What new data (including samples, core, thin sections etc) did you collect during the project?**
  - Where is this data stored?
  - If there were physical samples collected, are they stored or tossed? What is the process for that?
  - What format is this data in? Does it require proprietary software to view/use?
  - Does it follow a standardized workflow or storage process?
  - What documentation/metadata is needed to use/understand this data? Does this documentation/metadata exist? If so, where is it located?
- **Which datasets from this project have long-term value and should be retained, shared, and/or preserved?**
  - Is there a best-practice or standard method of archiving this data?
  - Are there any datasets that are preliminary, interim, draft, or of limited value that could potentially be cleaned up?
- **Are there any ethical, legal, or privacy considerations associated with the data used or collected? If so, please describe them.**
- **Are there any unpublished or non-public reports or datasets from this project that are shared externally with collaborators?**
  - If yes, where are these materials stored?

# The Solution (in dev.)

## GSC Approach (color-coded)

The screenshot displays the GSC DMP Tool interface, which is a web-based platform for managing data management plans. The interface features a blue header with the logo and navigation menu. Below the header is a grid of 16 modules, each with a distinct color and a brief description of its function.

**GSC DMP Tool**  
Build your Data Management Plan

**Navigation Menu:** Project Summary, Study Area, Publications, Field Work, Sampling Campaigns and Samples, Lab Analysis, Geospatial Data, General Datasets, Geodata Management, Data Sharing, Storage and Archives, Data Responsibilities, Data Integrity, Legal Compliance, Training Needs, Management pages

Module Name	Description
<b>Project Summary</b>	General information about the projects. EGP Program   GGP Program GEM Program   TGI Program Critical Minerals Program
<b>Study Area</b>	List, description and location of related studies areas for the project. Contextual information for the DMP.
<b>Publications</b>	List, description, status and access to publications related to the project.
<b>Field Work</b>	List, description, planning, location and status of field work activities. Status and management of field observation data and photos.
<b>Sampling Campaigns and Samples</b>	List, description, planning, location and status of sampling campaigns. Status and management of sample data.
<b>Lab Analysis</b>	List, description, planning, and status of laboratory analysis and its associated data.
<b>Geospatial Data</b>	List, description, planning, location and status of geospatial datasets related to the project.
<b>General Datasets</b>	List, description, planning and status of general datasets and analytical results related to the project.
<b>Geodata Management</b>	General geospatial data production and management requirements for the project.
<b>Data Sharing</b>	Data sharing strategy and listing of data formats for the project.
<b>Storage and Archives</b>	Data storage and archiving plan. Samples storage and conservation considerations.
<b>Data Responsibilities</b>	Current and post-project data management responsibilities.
<b>Data Integrity</b>	Data integrity and data loss risk assessment for the project.
<b>Legal Compliance</b>	Confidentiality and legal considerations for the data related to the project.
<b>Training</b>	Identification of training requirements related to data collection, production and management related to the project.
<b>User Access</b>	Grant create and edit rights to additional users for a specific project. Only the original owner of a project can perform this action.



# Feedback Requested

- Are we on the right track?

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- Link to survey:

<https://forms.gle/tgcXNrbtn1xm4aN79>

