

University of Tennessee Geologic Data Preservation Program: Preserving Historic Collection of Maps and Geological Samples

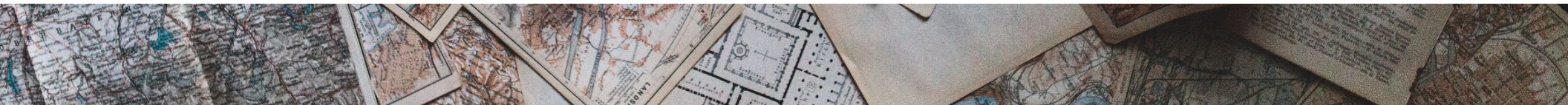
Group 2:

Alexander Thurman

Sarah Gonzalez

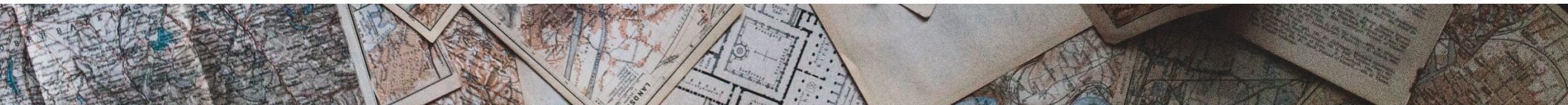
Timothy Holmes

Yasmin Stoss



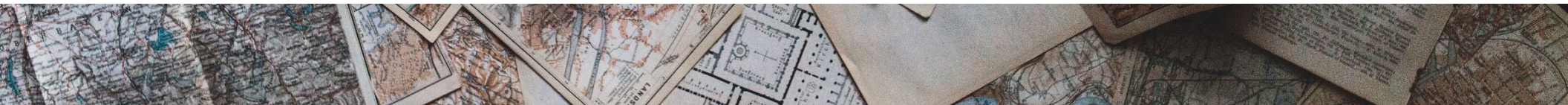
Smathers Libraries Emerging Technologies Mini Grant

- Alexander Thurman - PI
 - 0000-0001-9304-929X
- Sarah Gonzalez - Co-PI
 - 0000-0001-8540-0190
- Timothy Holmes - Data Manager
 - 0000-0002-7919-0219
- Yasmin Stoss - Metadata Specialist
 - 0000-0003-3205-7872



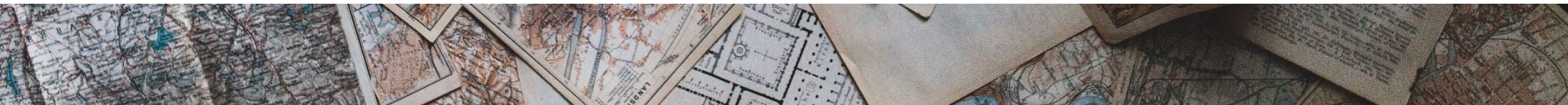
Abstract

- Tied to USGS Grant Program
- Digital preservation of physical maps and geological samples
- Creation of a robust unifying metadata schema with accompanying documentation
- Create a foundation for future additions to the same database
- Application of long-term data management tools, standards, and processes to the task of preservation



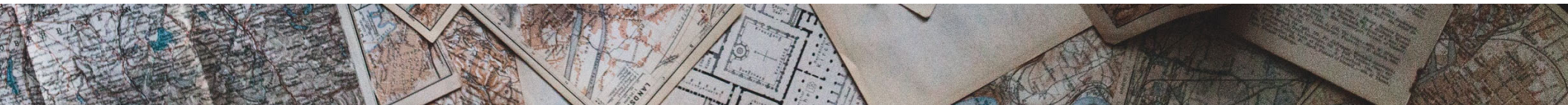
Budgets

- Salary
- Supplies
- Travel
- Cost Share from the department
- Cost Share from Research grant



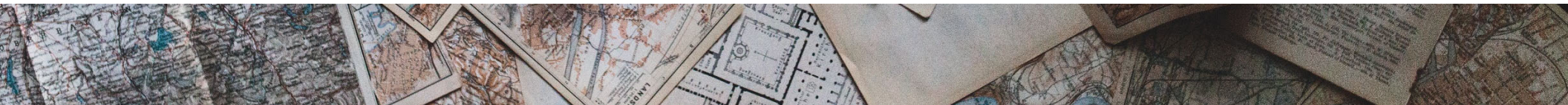
Data Management Plan – Data & Metadata Creation

- Samples are small rocks from the great majority sedimentary formations throughout Tennessee
- Maps have some damage but are salvageable
- Data Manager and Metadata Specialist will check identification parameters for each sample and map and create metadata
- Creating inventory of complete collection
- Quality control



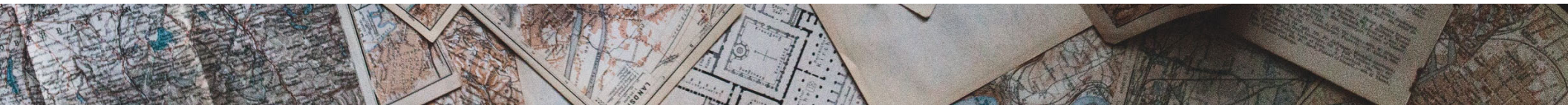
Data Management Plan – Preserve & Share

- Stored in CSV format at Department of Earth and Planetary Sciences at University of Tennessee
- Data repository will be available to public
- Originals will be stored at Hodges Library with limited access
- Open access licensing
- DOI created through USGS



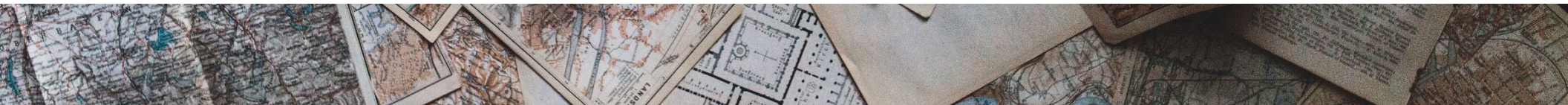
Importance of Preservation

- Lack of metadata and proper recording is a significant cause of lost data, especially when it comes to physical items such as maps and geological samples. By creating a long-term, accessible, expandable data storage system for these items, we can significantly decrease the amount of lost data while increasing the value and accessibility of stored data for future research.



Applying Lessons from Class

- The major innovation of this project is the application of data management standards and long-term scalability to these collections, a set of applications rarely seen outside of archival practices.



Questions?

