National Geological and Geophysical Data Preservation Program – Why hold a Workshop?

Data Preservation Techniques Workshop

Bloomington, Indiana

July 14 & 15, 2009

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U.S. Department of the Interior
U.S. Geological Survey

National Geological and Geophysical Data Preservation Act of 2005

Created by Section 351 Energy Policy Act of 2005

- USGS to administer program
- Establish a data archive system
- Establish a National Digital Catalog
- Establish a Technical and Financial Assistance Program for states and relevant DOI Bureaus
- Authorized $30M/year for 5 years

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National Geological and Geophysical Data Preservation Program

Funding

FY 2007 Program Budget	$750K
FY 2008 Program Budget	$1M ($984.4 after across-board cut)
FY 2009 Program Budget	$1M
Annual Authorization	$30M

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National Geological and Geophysical Data Preservation Program

- Allocation of annual appropriation
  - 2/3 to State geological surveys
    - Grants to States
    - Development of National Digital Catalog
    - Travel for state representatives to committee and review panel meetings
  - 1/3 to USGS
    - Program administration
    - Development of National Digital Catalog
    - Travel for federal representatives to committee and review panel meetings
    - Remainder to support DOI data preservation

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National Geological and Geophysical Data Preservation Program – Two Committees

- National Digital Catalog Committee
  - ✓ 4 State and 5 Federal Members
- ✓ Design and implementation
- ✓ Metadata standards
- ✓ Data discovery and use, increase visibility of State & Federal resources
- ✓ Search, transfer, and present metadata
- ✓ Maintaining state brand on data; USGS provide portal through National Digital Catalog
- ✓ Identify data in need of rescue and preservation
- ✓ Priority setting

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National Geological and Geophysical Data Preservation Program – Two Committees

- **Financial and Technical Assistance Program**
  - ✓ **4 State and 4 Federal Members**
- ✓ **Guidelines for distribution of assistance**
- ✓ **Help set priorities – collection-level inventories and metadata**
- ✓ **Performance measures to evaluate success and effectiveness of the program**
- ✓ **Best practices and minimum standards for data preservation**

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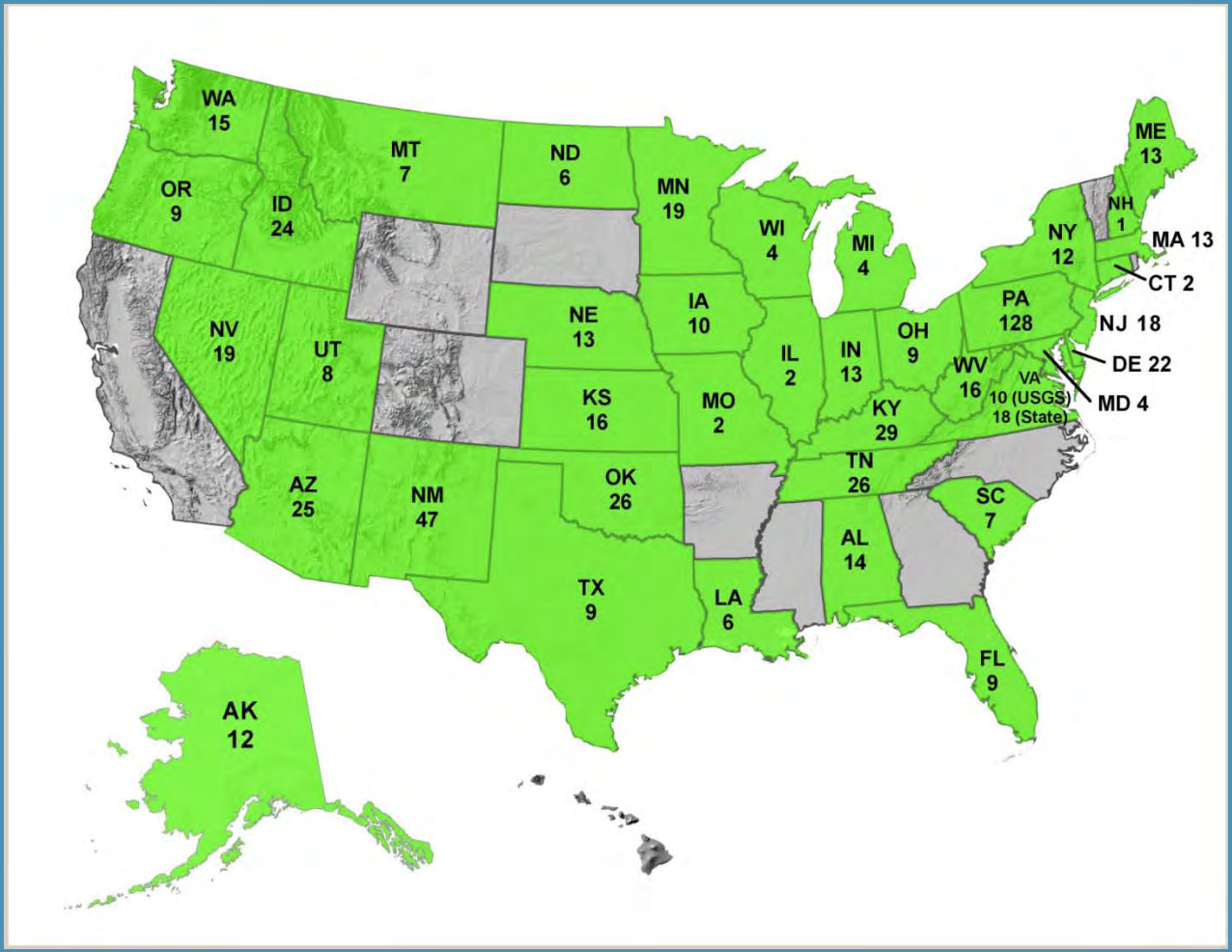
National Digital Catalog Collection Inventory records as of FY 2008



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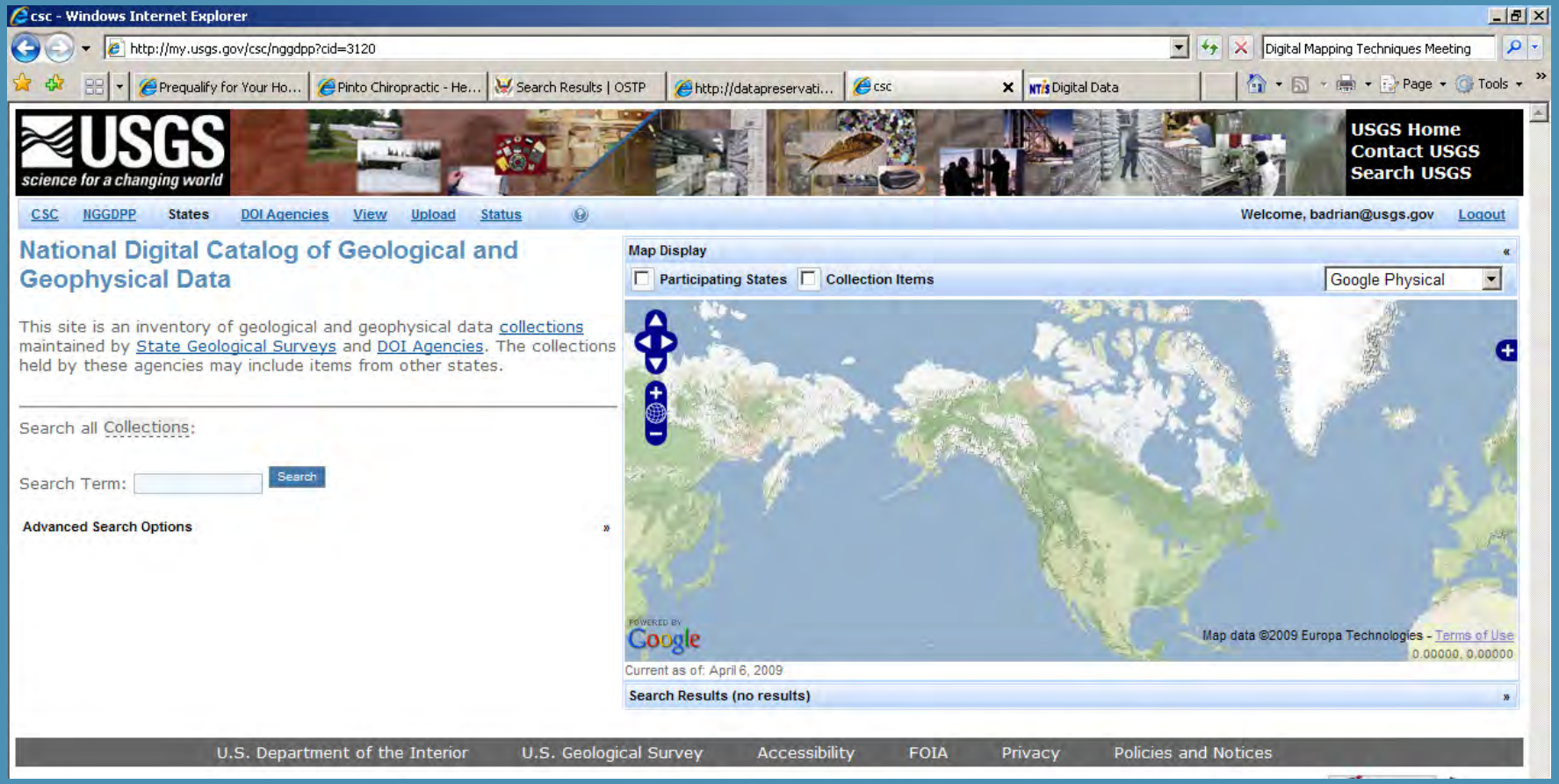
National Digital Catalog

Sky Bristol will be talking about the catalog tomorrow



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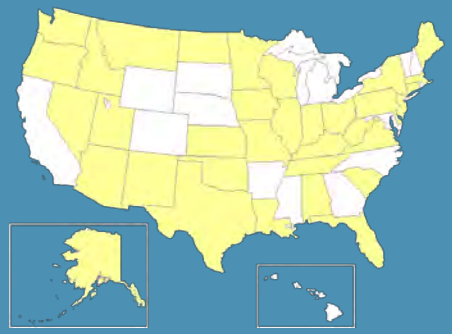
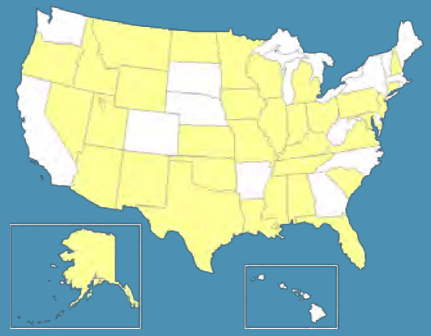
Financial and Technical Assistance Program Accomplishments FY 2007 – FY 2008

- **FY 07 Financial assistance to inventory State collections**
  - ✓ 35 State geological surveys
  - ✓ 8 USGS Geology Teams



- **FY 08 Financial assistance to inventory State collections and create metadata for items in those collections**
  - ✓ 28 states awarded funding
  - ✓ 4 USGS Teams
  - ✓ Requests >$1M; awards $541K



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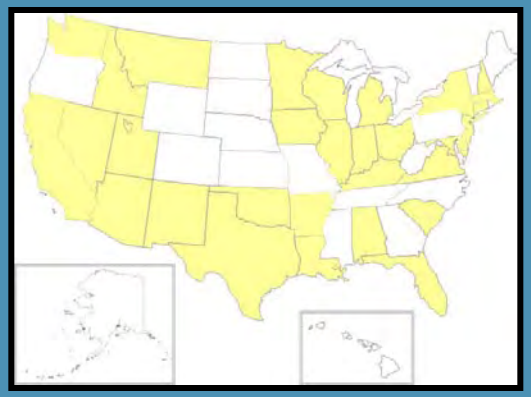
Financial and Technical Assistance Program Accomplishments FY 2009

- FY 09 Financial assistance to inventory State collections and create metadata for items in those collections
  - ✓ 29 state geological surveys
  - ✓ Requests >$795K; Awards $550K



- Develop data-preservation best practices
  - ✓ AASG/USGS Data Preservation Techniques Workshop
  - ✓ Brian Buczkowski, Woods Hole
  - ✓ 2009 GSA Annual Meeting in Portland

- Transport and curate oil shale cores from Anvil Points Mine

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FY 2010 Financial and Technical Assistance Program

- Continue support for inventories and metadata
- Merge funding cycle with the Federal fiscal year

- May include limited expanded opportunities for:
  - Digital Infrastructure:
    - Paper records to digital formats
    - Digital data to new formats on permanent media
    - Computer equipment
  - Special Needs Awards:
    - Time-dependent preservation of unique geologic data or collections in imminent danger of loss

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FY 2010 Financial and Technical Assistance Program

- Maps, maps, maps
  - Everyone has maps in need of preservation
  - The question is:
    - Shall we list maps in two different catalogs, or
    - Shall we keep maps with maps?
    - What type of maps should have highest priority?
  - Dave Soller will talk about the National Geologic Map Database tomorrow after lunch. We'll explore this issue some more then

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National Geological and Geophysical Data Preservation Program

5-year Plan

- NGGDPP 5-year Plan will help guide:
  - ✓ Priorities for future years under various funding scenarios
  - ✓ Will be reviewed by subcommittee of NCGMP FAC

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Update on Reauthorization

- **Single sentence in the 2009 Energy Bill**

13 **SEC. 336. PRESERVATION OF GEOLOGICAL AND GEO-**

14 **PHYSICAL DATA.**

15 Section 351(k) of the Energy Policy Act of 2005 (42

16 U.S.C. 15908(k)) is amended by striking "2010" and in-

17 serting "2020".

- **Passed out of the Senate Energy & Natural Resources Committee**

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Top 10 Tips for Success

10. Read NGGDPP Implementation plan, available on the program web site
9. READ Program Announcement carefully, address each point explicitly, don’t make reviewers work too hard!
8. Be painfully clear why you’ve chosen to inventory or create metadata for a given collection.
7. If there is a possibility the data you are proposing to include is available from another source (e.g. state oil and gas commission), make the case for why your geological survey is the sole source
6. Explain specific role each staff member will play on proposed project

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Top 10 Tips for Success

5. Document prior work, the panel cannot rely on previous years' proposals
4. Have a Long-Range Data-Preservation Plan in place and show how the work you propose relates to it
3. Participate in NGGDPP committees and proposal review panels
2. Call with questions, e-mail with questions, send passenger pigeon with questions; JUST ASK, we're here to help
1. Start submitting your proposal to Grants.gov ONE WEEK in advance of due date!

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Read It, Just Read It

http://datapreservation.usgs.gov

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Courtesy of Indiana Geological Survey.

Preservation of geoscience data and materials in the United States is currently the responsibility of a set of disparate facilities and programs. There are no national standards, procedures, and protocols for the collections and minimal coordination between responsible parties. Although some collection facilities are excellent, more commonly, data and materials reside in inadequately cataloged, overfilled, and disorganized storage areas that were not designed as data repositories. Many Federal and State geological repositories are at or near capacity and are unable to accept additional materials.

The Energy Policy Act of 2005 (Public Law 109-58, Sec. 351) established the NGGDPP in the U.S. Geological Survey (USGS) and outlined the following goals:

- Archive geological, geophysical, and engineering data, maps, well logs, and samples
- Provide a national catalog of archived materials
- Provide technical and financial assistance to State geological surveys and relevant Department of the Interior (DOI) bureaus for archived materials

Data Preservation Partnerships

The Program, administered by the USGS, comprises State geological surveys and agencies within the DOI that maintain geological and geophysical data and samples. Together these diverse groups are working to:

- Inventory collections of materials and data that exist in State geological surveys and DOI agencies to identify preservation and data-rescue needs
- Design and begin populating a National Digital Catalog
- Develop guidelines for distribution of Program funds and establish priorities for Program

Upcoming Data Preservation Events

2009 Geoscience Data Preservation Techniques Workshop Website

http://igs.indiana.edu/gdpt2009/index.cfm

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Courtesy of Maine Geological Survey.

An example of cores in need of rescue.

What is the Data Preservation Challenge?

Scattered across the Nation are geological and geophysical collections of materials and data, in a wide range of formats that have long been recognized as valuable. Information that resides in these collections, as diverse as rock and ice

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