GeoData Archiving and Long-Term Preservation

Presented by John Faundeen at
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Background

- CEOS WG on Information Systems & Services
  - Data Standards
  - Interchange Formats
  - Interoperability Efforts
  - Archiving Best Practices
    - Archive Task Team
- U. S. Geological Survey / Center for EROS
  - Satellite Imagery, Aerial Photographs, GIS Data
  - Established 1972
  - Digital Records = 4 Petabytes  Film = 110,000 Rolls
Background
Background
QuickTime™ and a Photo - JPEG decompressor are needed to see this picture.
Lifecycle of Records

- Creation
- Use and Maintenance
- Disposition
Records Management

- Appraisal
- Accession
- Arrangement
- Description
- Access
- Preservation
- Disposition
- Outreach & Advocacy
Collection Policy

- Organizational
  - Scope
  - Priorities
  - Limitations
  - Levels of Activity
  - Disposition Statement
- Brief
- Concise
- Public
Appraisal Process

- Collections Offered or Sought
- Team Assembled
  - Archive Staff
  - Science Staff
  - Project Lead
  - Archivist
- Facts Collected
- Science Staff Interviewed
- Archivist Briefed
- Recommendation
Appraisal Process - Web Tool

Retention Schedule

- Document
- Describes an Organization’s Records
  - Written Statement of the “Value” of the Records
- Disposition Instructions
  - Permanent
  - Temporary
- Two Types
  - Administrative
  - Mission-Specific / Scientific
Retention Schedule

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Preservation (*Long-Term*)

**Definition**

“A period of time long enough for there to be concern about the impacts of changing technologies, including support for new media and data formats, and of a changing user community, on the information being held in a repository. This period extends into the indefinite future.”

Consultative Committee for Space Data Systems
Preservation

- Medium / Media Centric
- Analog Film
  - 100 to 500 Years (Safety Film)
- Magnetic Tape
  - Old Guideline of 10 Years
  - New Guideline of 3 to 5 Years
- Takes Planning
  - Archival Media Trade Studies (4)
Summary

- Lifecycle of Records Concept
- Records Management Principles
- Consider a Collection Policy
- Appraisal Process Critical
- Develop a Retention Schedule
- Continually Plan for Data Preservation
- CEOS Very Involved in these Elements
Thank you!

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