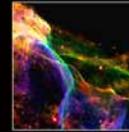
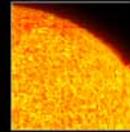


The Goddard Library
Federal Library of the Year

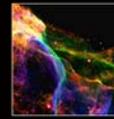
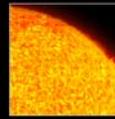


Finding a Common Demonimator: The Goddard Core Metadata Set

Gail Hodge

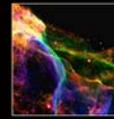
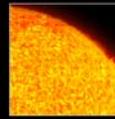
GSFC Project Librarians' Meeting
August 25, 2004





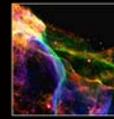
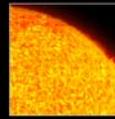
What Is Metadata?

- Data about data
- “Header information”
- Information that is currently entered or extracted for project documents
- Also common standards like those used in library catalogs: author, title, etc.



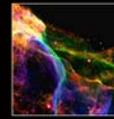
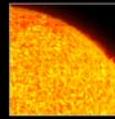
Purpose

- Resource discovery
- Location of resources
- Organization of resources in collections
- Administration
- Technical reproducibility
- Other functions like preservation



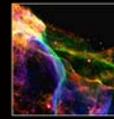
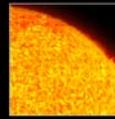
Various Metadata Standards

- MARC – traditional library catalogs
- Federal Geographic Data Committee Content Standards – georeferenced data sets
- ONIX – elements, including pricing and cover, that is used in promoting books and magazines
- Encoded Archival Description – used in records management
- Dublin Core – limited set of elements to describe web-based resources



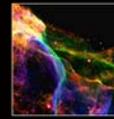
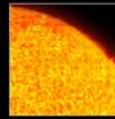
Metadata in Project Libraries

- Project libraries have metadata already
- Many core elements can be identified
- Each project library software tool has defined its own with more or less flexibility
- Difficult to interoperate or search across the libraries because of these differences



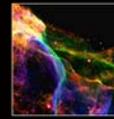
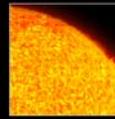
Benefits of Searching Across Collections

- Breaks down stovepipes
- Users don't care where the information comes from and sometimes don't care about format
- Aids in long term preservation and reuse when you no longer remember where it came from



Digital Archiving System

- A prototype that shows searching across collections using a metadata repository
- Developed by GSFC Library based on initial research done under the Director's Discretionary Funding
- Partnership with University of Maryland College of Information Studies and Code 588
- Provides cross object searching of videos, archived web pages, digital still images, animations and project documents



Digital Archiving System - Homepage

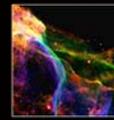
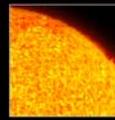
 Digital Archiving System at **The Goddard Library**
Federal Library of the Year 2002

Home
Update
Retrieve
About

Welcome to the Digital Archiving System at NASA Goddard Space Flight Center Library

This is one of the Goddard Library projects focused on Digital Preservation and Knowledge Management.
Searching 91710 Web pages and various digital objects including Balloon Technology Documents.
Please feel free to explore all the functionality. Any feedback will be greatly appreciated.

Done Internet



Search Results Page


Digital Archiving System at

The Goddard Library
 Federal Library of the Year 2002

Displaying 1 to 10 of 31

Get	Meta	Preview	Title	Subject.Competencies	Creator.Employee	Creator.Code
		Image	Comparing Two Satellite Sensors	NASA:Earth Sciences, EOS:Sensors, EOS:Instruments		
		Web page	Space Geodesy Networks and Sensors Calibration Office	EOS:Sensors, EOS:Calibration, NASA:Physics, NASA:Geosphere, NASA:Earth Sciences		920.1
		Web page	NPOESS Preparatory Project Sensors	NASA:Earth Sciences, EOS:Sensors, EOS:Instruments, EOS:Observatory		429
		Video	MODIS performance	EOS:Sensors, EOS:Calibration		293
		Web page	Comparison of L7 and EO-1 Sensors	EOS:Spacecraft, EOS:Instruments, EOS:Sensors		427

Home

Update

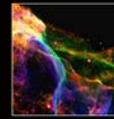
Retrieve

Retrieve Digital Objects

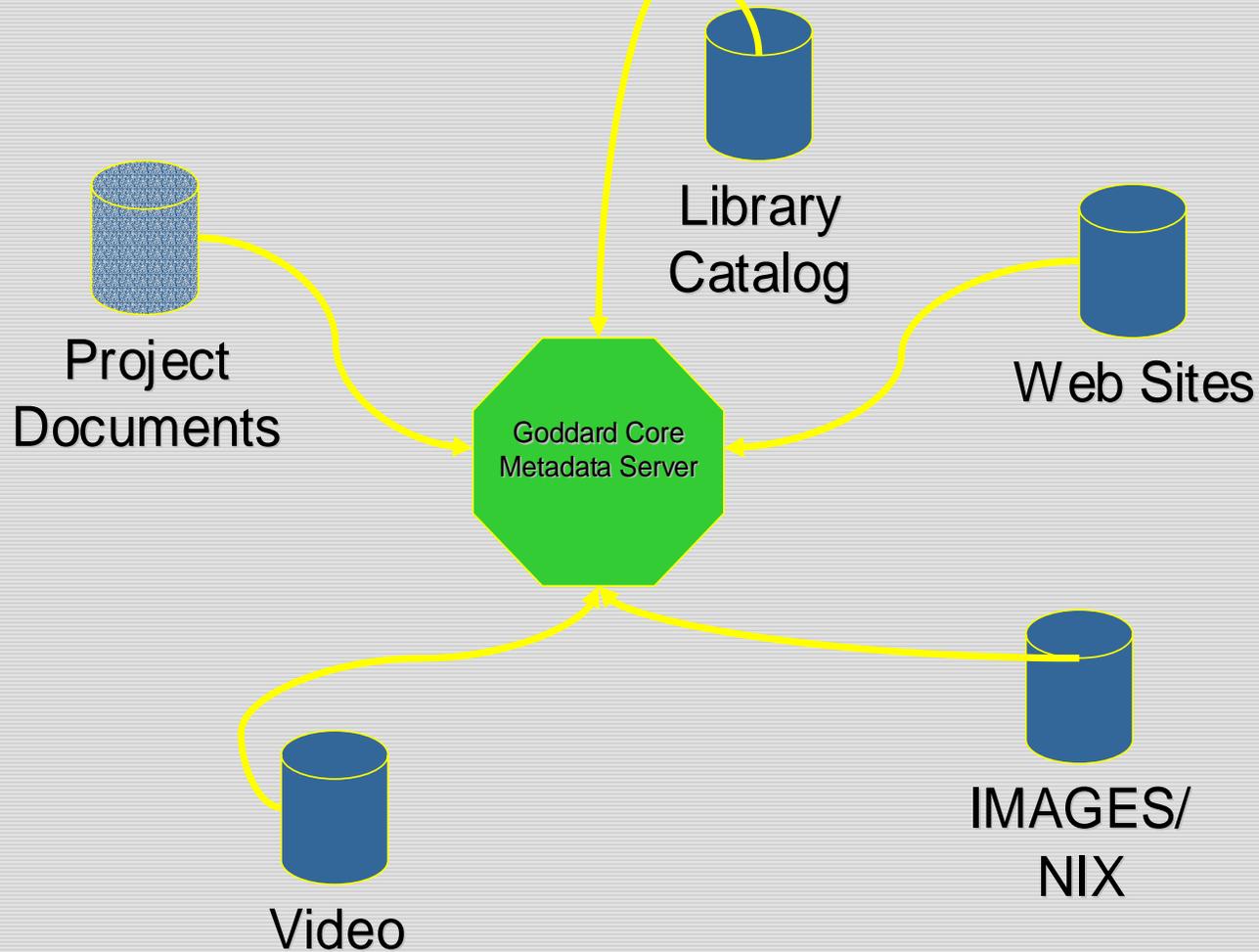
Retrieve by Record Number

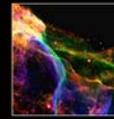
About

Done Internet



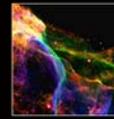
Metadata View of the DAS





Goddard Core Metadata Element Set

- Based on the ISO Standard for Descriptive Metadata (Dublin Core)
- Reflects GSFC's project orientation
- Extends the Dublin Core set with important elements such as instrument, project name, project number, mission phase
- After initial set was developed tested against various materials including mappings to some project library sets
- Reduced set developed to make the task less onerous
- Some administrative elements also defined
- Currently, reconciling the Goddard Core with the Web Guidelines for metatags



Metadata Review Group - Homepage

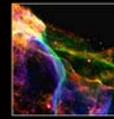
The screenshot shows a Microsoft Internet Explorer browser window. The title bar reads "The Goddard Library - MetaData Review - Microsoft Internet Explorer". The address bar shows the URL "http://library.gsfc.nasa.gov/mrg/mrg.htm". The main content area features a circular logo for "The Goddard Library" on the left, with the text "Goddard is a universe of knowledge" around it. To the right of the logo is the title "Metadata Review Group" in a large, red, serif font. Below the title is a paragraph of text: "The Metadata Review Group brings together internal metadata stakeholders and external experts to review Goddard Space Flight Center Library's metadata efforts. The MRG's goal is to ensure integration and interoperability with other metadata activities at the Center. The group is developing a metadata framework that supports digital archiving process, preservation, and access across objects and subjects as part of the Library's support to GSFC's knowledge management efforts." To the left of this text is a vertical navigation menu with links: "Overview", "Goddard Core", "Documents", "Contacts", "Related Sites", and "Home". At the bottom of the page, it lists "Curator: [Nikkia Anderson](#)" and "Responsible NASA Official: Robin Dixon". The browser's status bar at the bottom shows "Internet".

The Goddard Library
Goddard is a universe of knowledge

Metadata Review Group

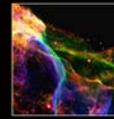
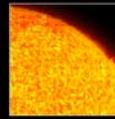
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Curator: [Nikkia Anderson](#)
Responsible NASA Official: Robin Dixon



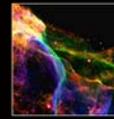
Metadata Review Group

- Internal and external stakeholders and experts
- Includes people at Glenn and Jet Propulsion Laboratory who are also working on these issues
- Provides comments on the Goddard Core as it is developing
- Identifies opportunities for us to make others aware of this work
- Meets quarterly



How is the Goddard Core Used?

- Create metadata for archived Web sites of scientific and technical interest
- Create metadata for images in a database of scientific images and animations
- Applying it to videos
- Special Landsat History and Balloon Technologies projects



How Can Project Libraries Get Involved?

- Comment on the Goddard Core
- Join the Metadata Review Group
- Provide metadata for mapping to the Goddard Core
- Provide collections