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NASA Goddard Space Flight Center Library

Harnessing NASA Goddard's Grey Literature: The Power of a Repository Framework

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Ila/ZAI/NASA Goddard Space Flight Center Library

Eighth International Conference on Grey Literature

New Orleans, LA

December 4, 2006



About NASA GSFC



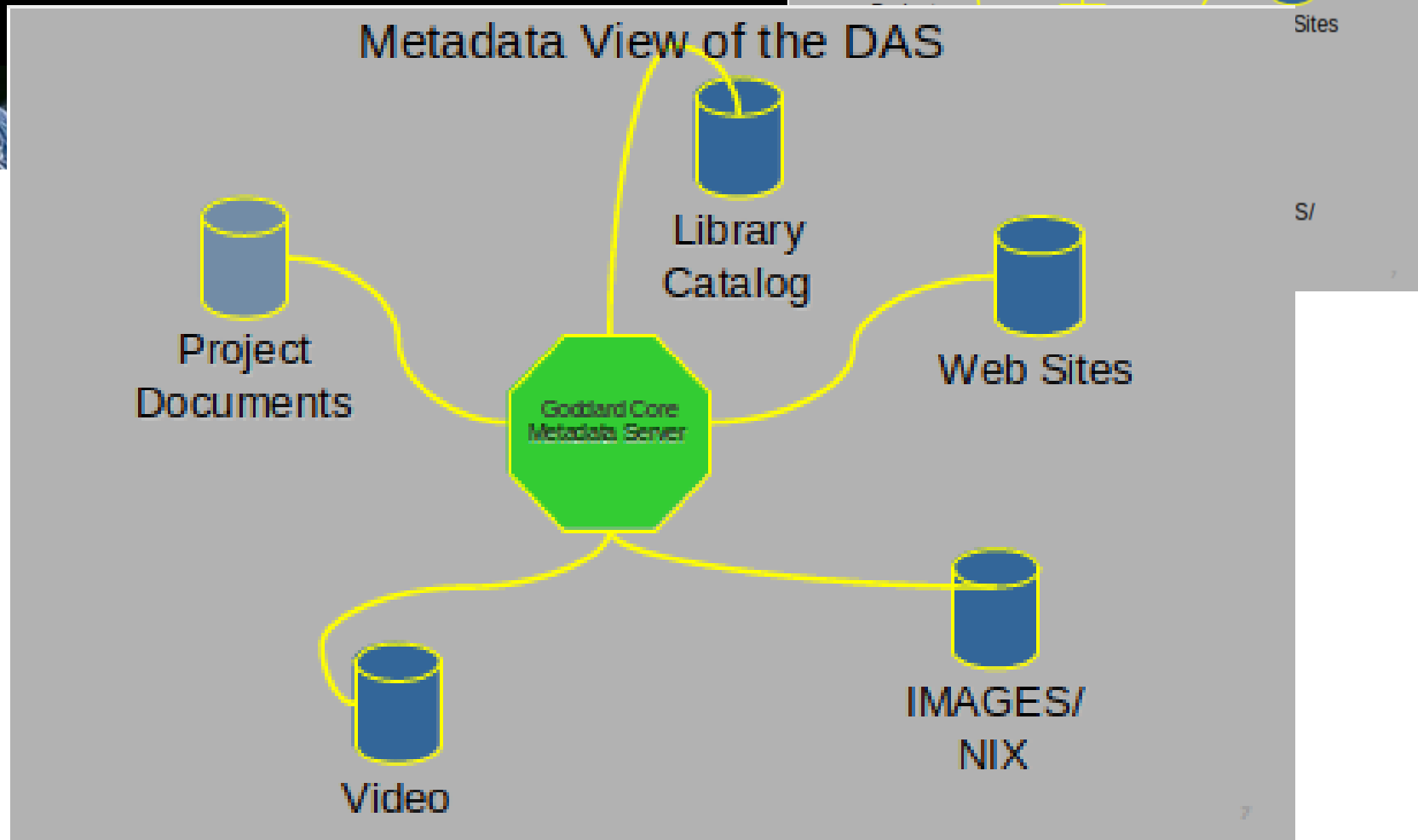
- **NASA Goddard Space Flight Center (GSFC) is located in Greenbelt, MD.**
- **One of 13 NASA Centers**
- **Mission: Expand knowledge of the Earth and its environment, the solar system and the universe through observations from space**
- **GSFC currently has over 40 missions in orbit, over 10 missions accomplished, and over 15 missions under research and plans for orbit.**

Scope



- **Digital Asset System**
 - The Framework
 - Internal Library Project Information
- **Project Collaboration**
 - Hitchhiker
 - Swift
 - Landsat

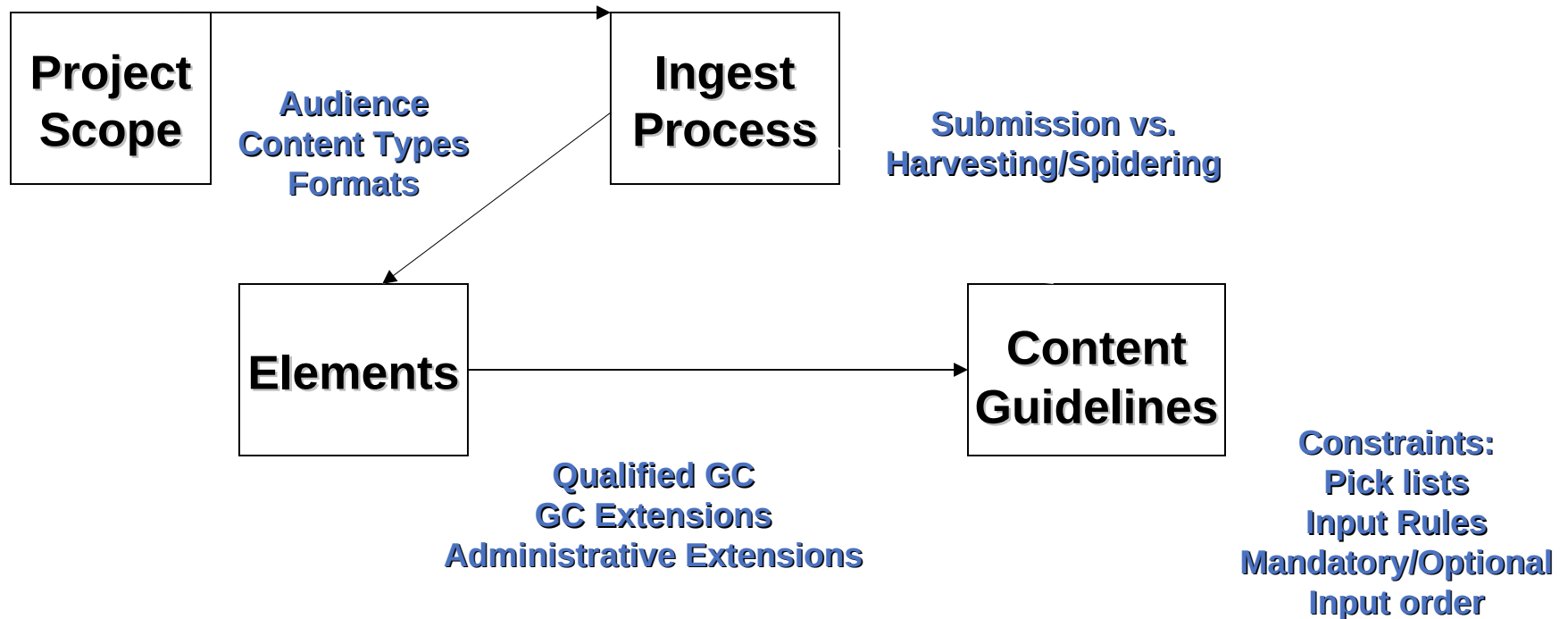
Digital Asset System



- Consistent Database Structure

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DAS Framework



Metadata



Swift Metadata Elements		GC Metadata Elements		
Number		Identifier.Original		
Payload		Subject.MissionProject/Subject.Instrument		
Responsible Person/Organization		Creator.Employee/Creator.Organization		
Title		Title		
Alt Number				
WBS Number				
Sub System		Subject.Instrument		
Revision/CH/DCN				
	Submitted Date			
	Approved Date	Date.Available		
	Approver			
	Remarks			

■ Project Metadata

- Identify metadata used in source project library
- Map the project library metadata to the Goddard Core

■ Goddard Core

- Extends the Dublin Core to 24 qualified descriptive elements. There are additional Administrative Elements. Preservation Elements are being developed
- Extends to accommodate GSFC project specific needs such as taxonomies and controlled vocabularies
- Organizes and manages content across collections and formats
- Allows for re-use & re-purpose of all content types in collections
- Aids long term preservation and access

Taxonomy/Controlled Vocabulary



- **NASA Taxonomy developed by NASA Jet Propulsion Laboratory (JPL) serves as the primary taxonomy for the Digital Asset System**
- **Project-specific taxonomies/controlled vocabularies added:**
 - Earth Observing System (EOS)
 - Landsat
 - Swift
- **Benefits of incorporating a known knowledge base for project community**
- **Assist in browse and navigation across broad collections of various object types**

Project Collaboration



■ Swift

- Mission Status:
Operational since 2002
- Project Library: Yes
- Presentation medium:
DAS Sub-system
- Content
 - Document Pointers
 - Web Sites
 - Photographs
 - Videos (Interviews)



■ Landsat

- Mission Status:
Operational since 1972
- Project Library: No
- Presentation Medium:
DAS Sub-system
- Content
 - Documents
 - Video Histories
 - Web Sites

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Swift Metadata Repository



SMR search results by content type "still image" and Document Pointer

http://library01.gsfc.nasa.gov:8080 - Mozilla Firefox

View SWIFT Document

To view this document, you must have a user account with the Centralized Configuration Management System (CCMS). To get a user account you must complete and submit a request [form](#).

If you have access to the CCMS, please go to the [GSFC Centralized Configuration Management System](#), login, and enter **410.4-PROC-0001** in the Search All Document field and click Search.

If you have trouble locating a specific document, please contact the SWIFT Project Librarian at Therese.M.Hayden@nasa.gov.

Done

View	Metadata	Content Type	
		still image	Fairing for the
		still image	Launching the
		still image	Launching the
		still image	Swift Spacecraft Lifts Off
		still image	Swift Spacecraft Lifts Off

Showing 1 to 10 of 740

[Home](#)

	Subject Competencies	Creator	Code
Swift Project	Swift Kennedy Space Center, Swift X-Ray Telescope, Swift UV/Optical Telescope, Swift Burst Alert Telescope, Swift Gamma Ray Bursts, NASA Astrophysics	NASA Direct Web Video	
	Swift Gamma Ray Bursts, NASA Astrophysics	NASA Direct Web Video	
	NASA Astrophysics, NASA Astronomy, NASA Physics, NASA Engineering, Swift Gamma Ray Bursts, Swift Big Bang, Swift Black Holes, Swift Supernovae		410.4
	BURST ALERT TELESCOPE (BAT) CZT DETECTOR HANDLING PROCEDURES	NASA Engineering, Swift Gamma Ray Burst Detectors	A. PARSONS 661

Landsat Legacy System



- + NASA Homepage
- + Goddard Homepage
- + Goddard Space Flight Center Library



+ ABOUT

+ REGISTER

Searching Landsat Data for EROS produced total 7 result(s).

Enter term(s) to search Landsat Data.

Search

Landsat Legacy Data

EROS Issue Paper

This paper reviews the history of the Departments involvement in remote sensing research; describes arrangements for collaboration in the program; summarizes the understandings and expectations which have developed with respect to the program, both within the United States and throughout the world; describes the setting within which the current program decision must be made; examines the specific issues which the program decision raises; and suggests Conclusions which may be drawn. This paper is located in an historical EROS notebook that also contains: - Budget Estimation 1969, 5p - Specific Examples of EROS benefits, 9p - Specific resource-oriented goals of EROS program, 4p - Letter from DOI Under Sec. (C.F. Luce) to Assistant Secretaries and Bureau Heads regarding EROS program status and plans 7/12/67, 10p (2 copies of this in notebook) - 6/6/68. Earth Resources Observation Satellite (EROS) appears to be FY69 budget request with justifications, benefits and applications of earth-observation data. 65p

EROS Budget Estimate 1969

An overview of the DOI and NASA budgets for the EROS program; applications studies and research in satellite-based remote sensing. This paper is located in an historical EROS notebook that also contains: - Budget Estimation 1969, 5p - Specific Examples of EROS benefits, 9p - Specific resource-oriented goals of EROS program, 4p - Letter from DOI Under Sec. (C.F. Luce) to Assistant Secretaries and Bureau Heads regarding EROS program status and plans 7/12/67, 10p (2 copies of this in notebook) - 6/6/68. Earth Resources Observation Satellite (EROS) appears to be FY69 budget request with justifications, benefits and applications of earth-observation data. 65p

The EROS Program of the U.S. Department of the Interior
I am pleased to be here to discuss the EROS Program with you and to regional planning and management organizations such as the National Academy of Sciences. This paper is located in an historical EROS notebook that also contains: - Budget Estimation 1969, 5p - Specific Examples of EROS benefits, 9p - Specific resource-oriented goals of EROS program, 4p - Letter from DOI Under Sec. (C.F. Luce) to Assistant Secretaries and Bureau Heads regarding EROS program status and plans 7/12/67, 10p (2 copies of this in notebook) - 6/6/68. Earth Resources Observation Satellite (EROS) appears to be FY69 budget request with justifications, benefits and applications of earth-observation data. 65p

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The Landsat Legacy Project

+ ABOUT

+ REGISTRY

+ SEARCH

+ HELP

EROS Issue Paper

Content Type: document

Description: This paper reviews the history of the Departments involvement in remote sensing research; describes arrangements for collaboration in the program; summarizes the understandings and expectations which have developed with respect to the program, both within the United States and throughout the world; describes the setting within which the current program decision must be made; examines the specific issues which the program decision raises; and suggests Conclusions which may be drawn. This paper is located in an historical EROS notebook that also contains: - Budget Estimation 1969, 5p - Specific Examples of EROS benefits, 9p - Specific resource-oriented goals of EROS program, 4p - Letter from DOI Under Sec. (C.F. Luce) to Assistant Secretaries and Bureau Heads regarding EROS program status and plans 7/12/67, 10p (2 copies of this in notebook) - 6/6/68. Earth Resources Observation Satellite (EROS) appears to be FY69 budget request with justifications, benefits and applications of earth-observation data. 65p

Mission/Project: ERTS 1, 2, or 3, Landsat Program

Competencies (Landsat): Landsat Program Management

Link to Object: ftp://landsat-legacy.gsfc.nasa.gov/landsat-legacy/outgoing/documents/EROS_Issue_Paper.pdf



The Goddard Library
NASA Goddard Space Flight Center
Code 272, Bldg. 21
Greenbelt, MD 20771
301.286.7218



Curator: Huacheng Tu
NASA Official: Darrel Williams
Site Last Updated: Oct. 04, 2006
+ Privacy Statement and Important Notices

Landsat Legacy Search Results
and Project Document Metadata
Record in the NASA Look and Feel

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at the Goddard Library

Accessing Project Information



Improved resource discovery through
DAS Framework across 7 project
resources

THE GODDARD LIBRARY | [+ NASA Website](#)
[+ Goddard Website](#)
[+ Goddard Library Website](#)

Project Information

Goddard Project Information

Simultaneously searches 7 of the Library's Goddard Project Information resources, each of which may also be displayed individually.

Enter term(s) to search Goddard Project Information.

Search

The Goddard Library
NASA, Goddard Space Flight Center
Code 272, Bldg. 21
Greenbelt, MD 20771
301.286.7218

THE GODDARD LIBRARY | [+ NASA Website](#)
[+ Goddard Website](#)
[+ Goddard Library Website](#)

Project Information

[Back to Search Project Information Page](#)

Searching Goddard Project Information for **remote sensing** produced total **1452** results.

- + Project Libraries (0)
- + Goddard Project Directory (6)
- + IMAGES (766)
- + SWIFT (5)
- + Landsat (6)
- + DAS (608)
- + Balloon (61)
- + Total results (1452)

Simultaneously searches 7 of the Library's Goddard Project Information resources, each of which may also be displayed individually.

Enter term(s) to search Goddard Project Information.

Search

Goddard Project Information | Searching for **remote sensing** produced **1452** result(s).

Result 1 to 10 of 1452

Kebira Crater
No, satellite images do not show any craters in Egypt's Western Desert that can account for the mysterious "Desert Glass" found there, Dr. Farouk El-Baz had just finished telling filmmakers interested ...
http://library01.gsfc.nasa.gov/Images/2006/kebira_crater_lrg.jpg
[+ more details](#)

Fires in Portugal
While Portugal faces its worst drought in 60 years, more than 3,000 firefighters struggle to contain almost 20 fires ravaging the countryside. Water shortages and temperatures higher than 100 degrees F...
http://library01.gsfc.nasa.gov/Images/2006/portugal_tmo_2005217_lrg.jpg
[+ more details](#)

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The Power of the DAS Repository Framework



- **Communication across projects**
- **Enriched findability of project information across projects and agencies**
- **Helps ensure individual project and DAS requirements are met**
- **Allows for extending and tailoring for internal and external project information**