IMAGES

Image & Movie Archive of Goddard's Earth & Space Sciences

http://library.gsfc.nasa.gov/IMAGES/

Produced in the performance of NASA Contract NAS5-01101

The Goddard Library - Ile & ZAI

IMAGES is a unique and growing collection of over 1,000 images and movies representing Goddard's scientific contributions.

Unique Opportunity

Through a grant from the NASA STI program, which supports and administers the NASA Image eXchange (NIX), the Goddard Library expanded the image collection and developed a semi-automated feed to the NIX. NIX is a web-based search engine for simultaneously searching agency-wide image and photo collections.

Objectives

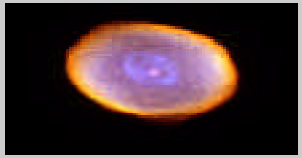
One goal of the project was to increase Goddard's presence within NIX. Prior to the project Goddard was represented primarily in the form of photographs of people, places, events, instruments, and Hubble images. NIX is a repository for the metadata with a search mechanism to locate and link to the associated images. IMAGES, however, is a permanent archive for the metadata and its associated image/movie.

How

Images are located on many Goddard servers and Websites. Each image or movie needs to have corresponding descriptive metadata to be selected for archiving. The metadata is critical in providing thorough search capabilities. Images and data are placed in a Goddard Library managed server and database/repository.

XML Creation & Management

All of the metadata in the form of text or html is converted into XML. An XML template was constructed from the XML schema provided by NIX. Utilizing a notepad editor to cut & paste the metadata into XML proved to be the simplest method. After experimenting with the complexity involved in modifying metadata, a web based utility program was developed to expedite the process. By creating an MS Access database, XMLs can be uploaded individually or in bulk. The Access database can be downloaded locally from the web to a desktop so data can be managed. This same utility checks the validity of each XML as it is imported. After the data is edited and verified for structure it is exported to the IMAGES database.



Successes

In addition to populating the NIX with images and movies derived from Goddard scientific instruments the Library has created a separate database where these images are captured, stored, and searchable.

The inclusion of these Goddard scientifically derived images in the NASA Image eXchange (NIX) expands the coverage and increases the variety of images in NIX.

Sample instrument images include:

Hubble	RXTE
Cobe	SOHO-EIT
MODIS	TRMM
EOS	RSD

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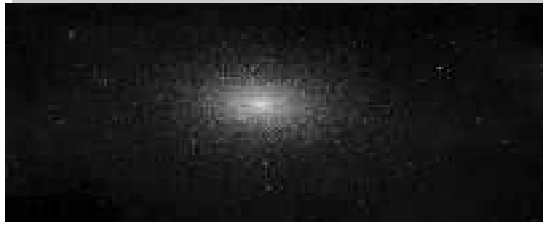

The Goddard Library

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Creating Value from Knowledge Assets

Goddard Library Efforts in Knowledge Management

http://library.gsfc.nasa.gov