



Inter-American Institute
for Global Change Research

Update on the DIS and IT Matters

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EC, CoP Meetings, Montreal, CANADA
May, 2005



Inter-American Institute for Global Change Research

IT Matters

(IT, CRN2, Website, IAIDB)

DIS Update

(Progress since July 2004, Statistics, Policy)

Future Plans

**How people can obtain information using
the IAI IT elements? How they are integrated?**

(Website, IAIDB and DIS)



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IT Matters

- **Daily activities for system maintenance, general security, and reliable IT environment.**
 - Anti-Spam/Virus solution, Intranet (lan.iai.int, webmail.iai.int), General logs for statistics and control, System updates, Website maintenance and updates, Hardware purchases and maintenance, On-line registration system for the EC and CoP Meetings, Other business.
- **CRN2 on-line submission system.**
 - 93 proposals in phase 1 and 37 proposals in phase 2.
 - Visualization system for the submitted proposals.
- **IAI Website and IAIDB System.**



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IT Matters

Inter-American Institute for Global Change Research, IAI :: - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://www.iai.int/

Getting Started Latest Headlines

Inter American Institute for Global Change Research

What's New | Meetings | Links | Opportunities | Contact Us | Home

The IAI

Member Countries

IAI Science

IAI Communications

Other Initiatives

Science and Communication Component

The Challenge of Global Change

click here

Previous News
Click over here to visualize all the news published by IAI.

New IAI-DIS Portal
The new IAI-DIS has being up and running since April 14th, 2005. The DIS will be used by the IAI to disseminate information about publications... [More]

Search | Site Map | Services

Done

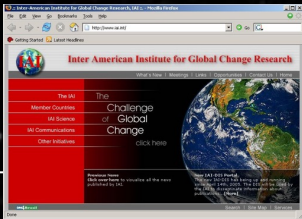
General
Information
Component

Extra
Information
Component



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IT Matters



Some Facts (March/2005)

Total of Visitors: **11123**

Average of visitors per day: **358**

Total of files downloaded: **8768**

Data Transferred: **8.20 GB**

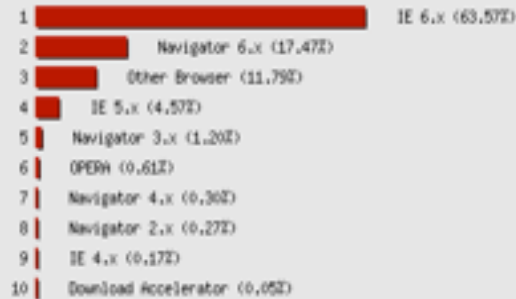
Data Transferred per day: **270.80 MB**

Some Facts (Issue 35)

Total of downloads: **711**

Downloads x Subscribers: **40%**

Most Used Browsers



Top 10 Search engines





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IT Matters

Welcome to Informative Database System - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://iaidb.iai.int/welcome.php

Getting Started Latest Headlines

 Inter-American Institute for Global Change Research
IAIDBWeb System

[Information about subscribers](#) [Information about science programs](#)

IAIDBWeb Home [People](#) [Institutions / Departments](#) [Scientific Programs](#) [Events](#)

IAIDBWeb System [Information about events](#)
(IAI Data Base Web System)

The IAIDBWeb System is a web-based database, with the following objectives:

- 1) Control WHO has relationship with IAI;
- 2) Control HOW is the relationship between a certain researcher and the IAI; and
- 3) Manage information about the IAI Scientific Programs and its Projects, Events funded by IAI and the connections between them and people.

The IAI intention with this system is to easy the retrieval of information, specially by the staff, since the information can be retrieved from outside using specific accounts. Other controls could be included in the future, since the system is modular and follows well-defined standards for Internet development.

Done



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DIS Update

- As informed last year in Buenos Aires, AR, the IAI decided for the ORNL Mercury Solution and the new DIS website is running since April 14th, 2005.
- IAI-DIS is fully integrated with the LBA-DIS and can be also integrated with other groups as requested.
- The new system is structured in 3 main mechanisms: DIS Metadata Editor, DIS Search Process and DIS Harvest Process.
 - SERVICE approach instead of a SYSTEM approach.
 - Easy integration with other “actors” of the Mercury Consortium.
 - US\$15K per year to participate in the Consortium.



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OAK RIDGE NATIONAL LABORATORY

Managed by UT Battelle for the Department of Energy

- The Oak Ridge National Laboratory (ORNL) is a multiprogram science and technology laboratory managed for the US Department of Defense. It is located in the city of Oak Ridge, Tennessee.
- The ORNL manages the Mercury Project, a web based metadata search and data retrieval system, used by different institutions for data dissemination.
- Mercury's business model is based on a consortium of different institutions with common interests who share general costs and share the benefits of development funded by all participants. Users share the cost of hardware maintenance and upgrades, software maintenance and support, tool development, engineering, and operations.



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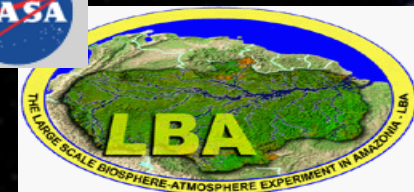
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DIS Update : "Actors"



Earth Science Information Partners
System Wide Interoperability Layer



Project Office
LBA-Hydrometeorology

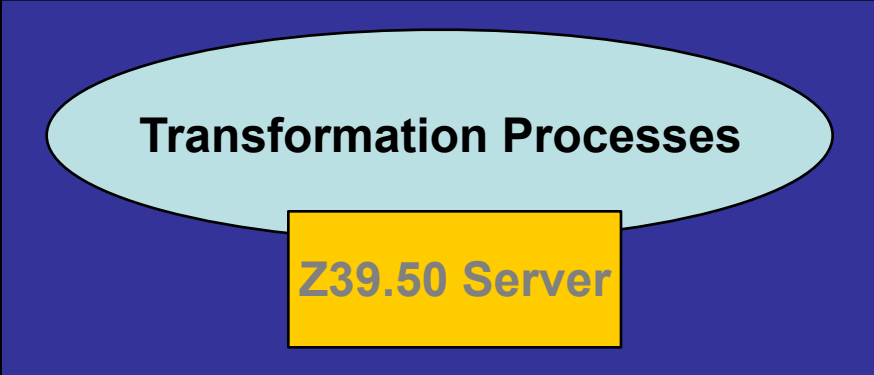


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DIS Update : View

XML files with pointers to real information



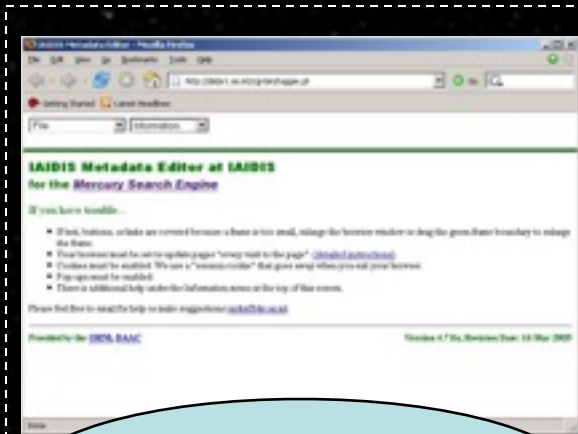
XML to HTML





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DIS Update : Structure



DIS Metadata Editor

- Metadata Creation
- Metadata Edition
- Metadata Visualization
- Real Data Storing

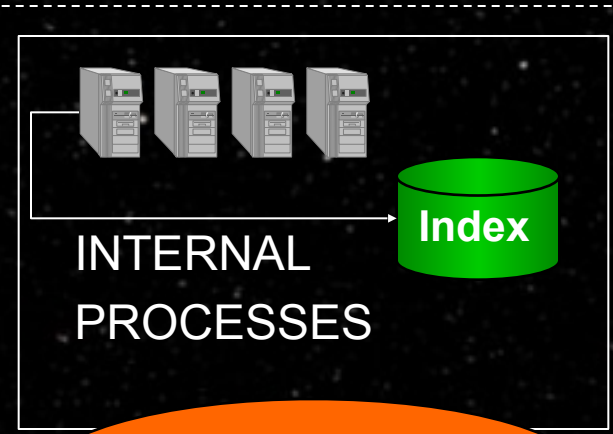
IAI



DIS Search Process

- Metadata Search by different index criteria

Oak Ridge



DIS Harvest Process

- Daily Harvest
- XML to HTML conversion for Z39.50 and Google



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DIS Update : What can DIS offer?

- Provide a single portal to information produced within the IAI scientific programs;
- Provide fielded, spatial, and temporal search capabilities;
- Allow individuals and database managers to distribute their data while maintaining complete control and ownership;
- Leverage investment in existing information systems and research; and **SPECIALLY**
- KNOWLEDGE MANAGEMENT (organize pieces)



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DIS Update : More than a regular search engine

<u>Characteristic</u>	<u>Regular Engines</u>	<u>DIS</u>
General HTML Search	●	●
Targeted Search	◐	●
Fielded Searches (keyword, spatial, temporal)	◐	●
Z39.50, FGDC Standards	○	●
User has total control over what is listed during search results	○	●
Browse Trees	◐	●
Structured Reports	○	●

● Good

◐ Medium

○ None



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DIS Update : Contractual Obligation

Project Management Manual

Grant Administration (PI Responsibilities)

- The PI is responsible to make sure that all data generated within the project is referenced as metadata in the DIS.
- The PI must appoint the person who will contact the ITM in order to create metadata for the project.

Reports

- The Technical Report (Progress and Final Reports) must follow the "IAI Guidelines for the Preparation of Technical Reports". It must provide a complete account of all project activities, scientific results and data/metadata created.

IAI Guidelines for the Preparation of Technical Reports

- Use the IAI-DIS to describe any sort of data produced or generated within the project.

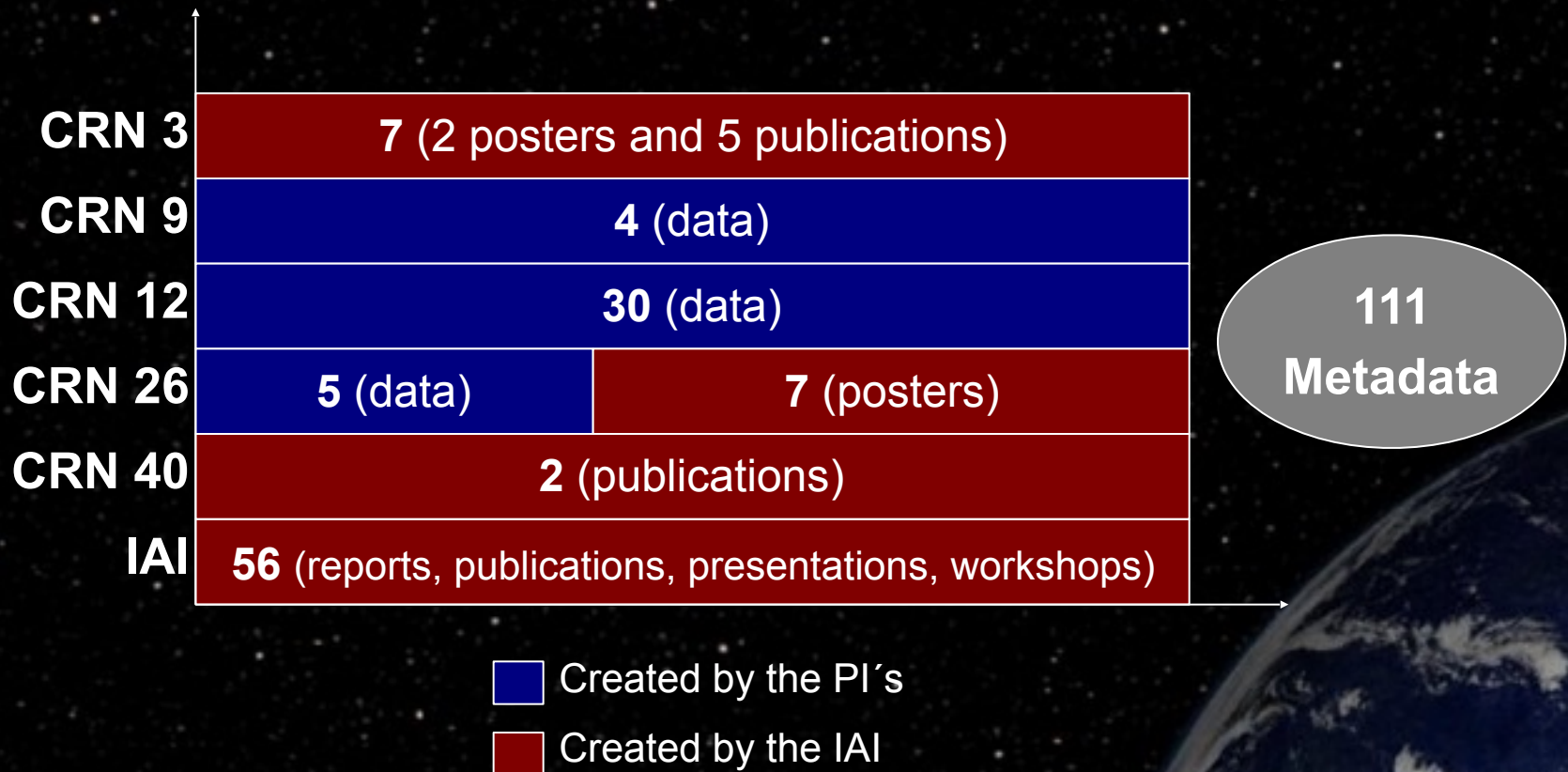
New Scientific Program Guidelines

- ... under CRN II it will be a contractual obligation for all projects to contribute metadata and real data to the IAI Data and Information System (DIS)...



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DIS Update : Current Scenario





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Future Plans

DIS

1. Update the GCMD DIS Portal with new metadata.
2. Finalize the DIS Data Policy document.
3. Prepare documents for the DIS Portal (Tutorial, User's Guide, etc).
4. Prepare a new brochure for the DIS.
5. Create two DIS posters.
6. DIS training session for the current CRN PIs.
7. Work with PIs in order to create metadata for current projects.
8. DIS Workshop for the CRN2 PIs.

IT

1. Video/Tele Conference Solution.
2. Collaboration and Document Management.
3. Better Control of Potential Reviewers.
4. Better Control of Events (redesign the process).
5. Migrate the US newsletter subscribers to the IAIDB platform.
6. Improvement of the Proposal Submission process.
7. Report submission system for scientific programs.
8. Integrate the IAIDB system with other components.
9. Daily maintenance of Network/Internet components (including security)
10. Improvement of the IAI website



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**How people can obtain information using
the IAI IT elements? How they are integrated?**
(Website, IAIDB and DIS)

**PRACTICAL DEMONSTRATION
USING INTERNET**



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for Global Change Research

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