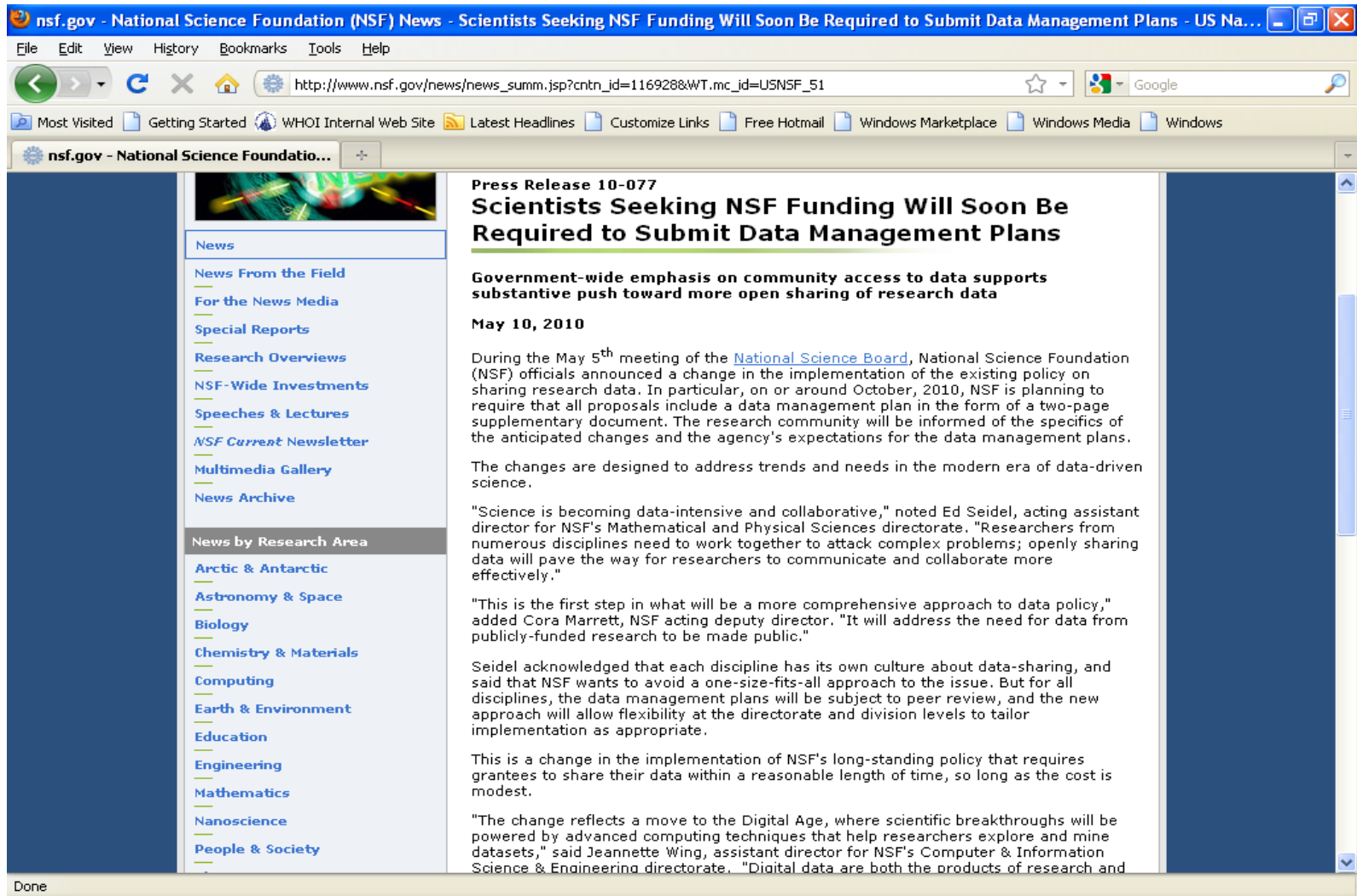


**SAIL 2011: Into the I of the Storm; Information Resources  
Undergo a Sea Change  
Texas A&M University at Galveston  
April 5, 2011 – April 8, 2011  
Data Management Plans – The Role of the Library**



# National Science Foundation Data Management Policy Implementation



The screenshot shows a web browser window displaying the NSF website. The address bar shows the URL: [http://www.nsf.gov/news/news\\_summ.jsp?cntn\\_id=116928&WT.mc\\_id=USNSF\\_51](http://www.nsf.gov/news/news_summ.jsp?cntn_id=116928&WT.mc_id=USNSF_51). The page title is "nsf.gov - National Science Foundation (NSF) News - Scientists Seeking NSF Funding Will Soon Be Required to Submit Data Management Plans - US Na...".

The main content area features a press release titled "Scientists Seeking NSF Funding Will Soon Be Required to Submit Data Management Plans". The release is dated May 10, 2010, and discusses a change in NSF's data management policy. It states that starting around October 2010, all proposals for NSF funding must include a data management plan. The policy change is intended to address the needs of modern, data-driven science and to promote open sharing of research data.

The left sidebar contains a navigation menu with the following items:

- News
- News From the Field
- For the News Media
- Special Reports
- Research Overviews
- NSF-Wide Investments
- Speeches & Lectures
- NSF Current Newsletter
- Multimedia Gallery
- News Archive
- News by Research Area
  - Arctic & Antarctic
  - Astronomy & Space
  - Biology
  - Chemistry & Materials
  - Computing
  - Earth & Environment
  - Education
  - Engineering
  - Mathematics
  - Nanoscience
  - People & Society



Special Research Projects

Ocean Informatics Working Group

- Background
- Projects
- Partners

Data Management and Publishing

Communicating Science

## Ocean Informatics Working Group

ShareThis Email Print PDF

### What is Informatics?

Informatics is more than computer science or information technology. It refers to the structures, behavior and interactions of systems that store, process, and communicate information contained within the physical and other sciences. It focuses on how people communicate and learn and how effective communication and other technologies can facilitate better scientific research and learning -- to the point where new knowledge and understanding can be achieved. Example informatics areas of research include [Bioinformatics](#), [Biodiversity informatics](#), [Cheminformatics](#), [Ecoinformatics](#), [Geoinformatics](#), and [Social informatics](#).

The science and technology of Ocean informatics is now emerging. Since Oceanography is by definition inter-disciplinary, several existing informatics technology areas will be incorporated into ocean informatics. Thus, the development of ocean informatics has the potential to identify commonalities and integrate technologies, tools, and concepts that exist in other fields of informatics.

### Ocean Informatics Working Group

The WHOI Ocean Informatics Working Group is focusing on the data-handling needs of WHOI scientists. Once common needs among research projects and individual researchers have been identified it will recommend a strategy and an action plan to build a robust data informatics infrastructure at WHOI. This informatics infrastructure will complement the computing and network infrastructure that already exists at WHOI.

A 4-person team, currently dubbed the Ocean Informatics Working Group, was established in early 2009. Thanks to a modest budget provided by the WHOI directorate alongside synergistic staff resources provided by the Rensselaer Polytechnic Institute (RPI), the task force spent its first year engaging in many staff interviews, creating / assisting in several proposal efforts, directly supporting research projects, and researching

# Action Items

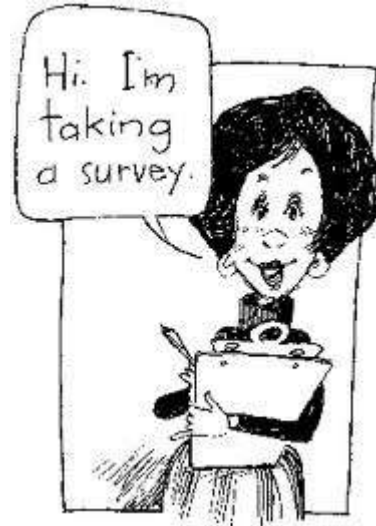
- All Hands Talks
- Survey WHOI  
Community
- Gather information
- Create tools to assist PI  
writing DM plans



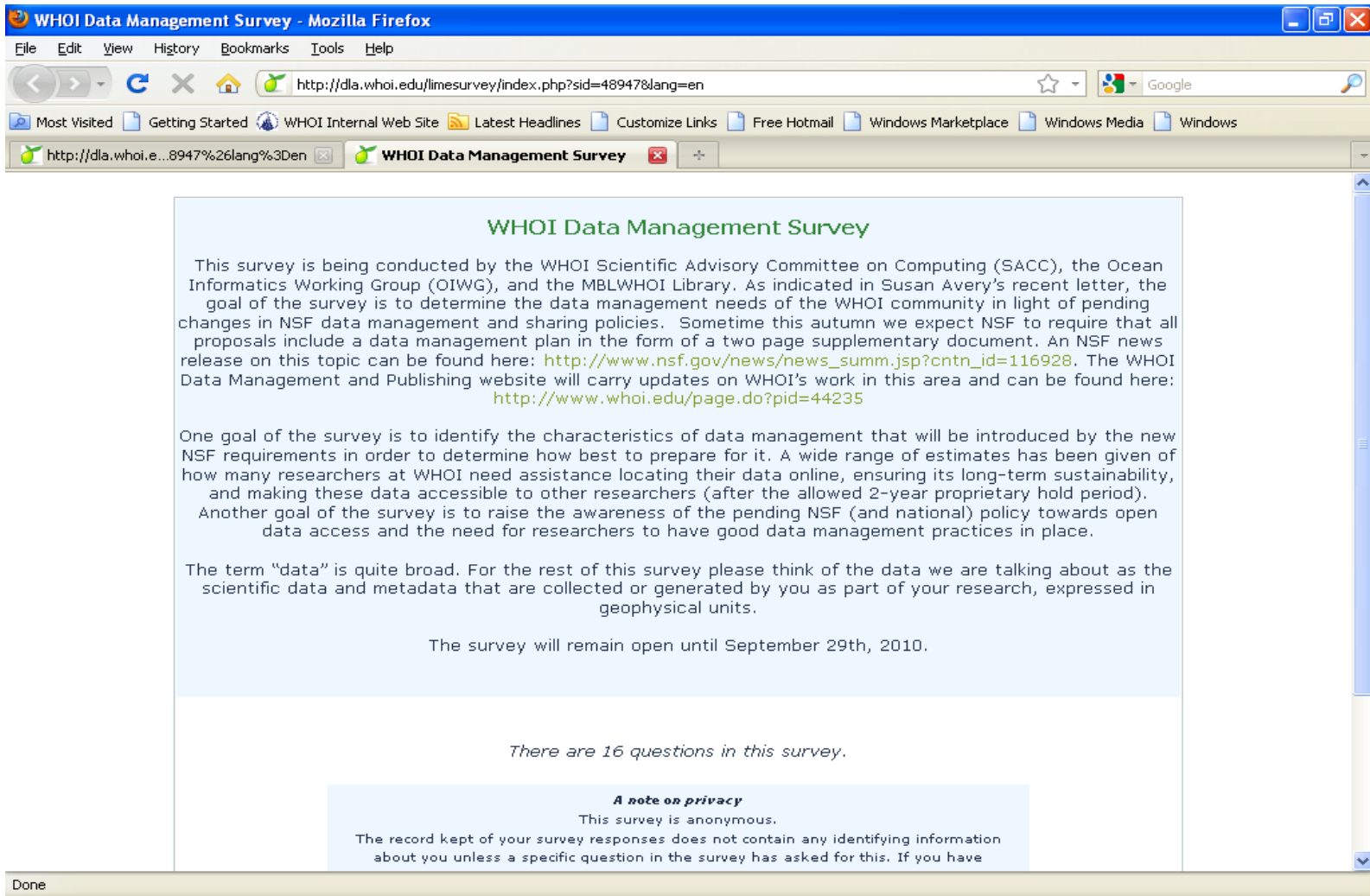
# Survey – see what PIs want/need

Survey developed with a scientist, a full time data manager, a librarian and an informatics specialist.

Designed as an education tool as well as gage of needs of community.



# Email announcing survey went to Department Chairs, Scientific and Technical Staff, and in weekly WHOI announcement email



The screenshot shows a Mozilla Firefox browser window with the title "WHOI Data Management Survey - Mozilla Firefox". The address bar contains the URL <http://dla.whoi.edu/limesurvey/index.php?sid=48947&lang=en>. The browser's bookmark bar includes "Most Visited", "Getting Started", "WHOI Internal Web Site", "Latest Headlines", "Customize Links", "Free Hotmail", "Windows Marketplace", "Windows Media", and "Windows". The active tab is titled "WHOI Data Management Survey".

**WHOI Data Management Survey**

This survey is being conducted by the WHOI Scientific Advisory Committee on Computing (SACC), the Ocean Informatics Working Group (OIWG), and the MBLWHOI Library. As indicated in Susan Avery's recent letter, the goal of the survey is to determine the data management needs of the WHOI community in light of pending changes in NSF data management and sharing policies. Sometime this autumn we expect NSF to require that all proposals include a data management plan in the form of a two page supplementary document. An NSF news release on this topic can be found here: [http://www.nsf.gov/news/news\\_summ.jsp?cntn\\_id=116928](http://www.nsf.gov/news/news_summ.jsp?cntn_id=116928). The WHOI Data Management and Publishing website will carry updates on WHOI's work in this area and can be found here: <http://www.whoi.edu/page.do?pid=44235>

One goal of the survey is to identify the characteristics of data management that will be introduced by the new NSF requirements in order to determine how best to prepare for it. A wide range of estimates has been given of how many researchers at WHOI need assistance locating their data online, ensuring its long-term sustainability, and making these data accessible to other researchers (after the allowed 2-year proprietary hold period). Another goal of the survey is to raise the awareness of the pending NSF (and national) policy towards open data access and the need for researchers to have good data management practices in place.

The term "data" is quite broad. For the rest of this survey please think of the data we are talking about as the scientific data and metadata that are collected or generated by you as part of your research, expressed in geophysical units.

The survey will remain open until September 29th, 2010.

*There are 16 questions in this survey.*

**A note on privacy**  
This survey is anonymous.  
The record kept of your survey responses does not contain any identifying information about you unless a specific question in the survey has asked for this. If you have

# Data Management Survey Results

## Summary

- Sixty seven people responded to the survey, several indicated they were responding for their group.
- The Directorate/Program that is most often submitted to is Ocean Sciences, followed by Marine Geology & Geophysics and Physical Oceanography.
- The most common place to store data is on a local computer.
- Less than half of the respondents said they have a plan to manage data collected since 2008.
- More than half of the respondents said they would like assistance with a data management plan.

# Gather Information

Federation of Earth Science Information Partners  
MAKING DATA MATTER

Home About Membership Meetings Community Resources Opportunities News

Home » Resources

Posted November 24th, 2010 by ennmr

Writing Your Data Management Plan (Data Management Planning on ESIP Wiki)

1. Workshops
2. Elements of a Data Management Plan
3. Data Management Checklist
4. FAQ
5. Links to Policies, Procedures and Protocol
6. Links to Data Archives

[Login or register to post comments](#)

**ESIP**

- About
- News
- Membership
- Partners
- Meetings
- Community Collaborations
- Resources
  - Data Management
    - Workshops
    - Data Management Plan
    - Data Management Checklist
    - FAQ
    - Links to Policies
    - Links to Data Archives
  - Data Sources
  - Educational Products
  - Technology Products

**Meetings**

The 2010 ESIP Federation Winter Meeting will be held January 4-6 in Washington, DC.

- Details
- Registration

**Newsletter**

The ESIP Federation's newsletter is published bimonthly in February, April, June, August, October and December. Any submission by the beginning of the month is welcome. [Click here](#) for the latest issue. [Click here](#) to submit news.

Date

- Survey Results
- Talk to other Librarians – Tufts, MIT, Data Curation listserv, etc.
- Attend ESIP workshop on DM plans at AGU



# Create checklist and list of other resources

- Title - Data Management Plan for [grant title]
- Author(s)– PI, data manager, etc.
- Identify the data-related materials that will be created – for example experimental data, model output, remote sensing, software, etc.
- What are the natural ways the material to be created would be organized?
- What are the standards in your community?
- If there are community standards and you are not using them, why?
- How will the data be gathered?
- Quality Assurance/Quality Control procedures?
- Directory structure
- Identifiers and naming standards
- Versioning
- Metadata standards
- Documentation
- Are there policies that define what data will be shared?
- What will be shared
- When will data be made available
- Where, is it publicly accessible
- Will it have a license – for example Creative Commons <http://creativecommons.org/>
- Any restriction on sharing or re-use, reasons?
- How are you ensuring that your materials are not lost?
- How/when are you creating copies (Lots of Copies Keeps Stuff Safe)
- Where are the copies
- How long do you need to keep

## Related Links

- » [Additional Resources](#)
- » [Data Management Plan Checklist](#)
- » [Repositories Commonly Used by WHOI Researchers](#)

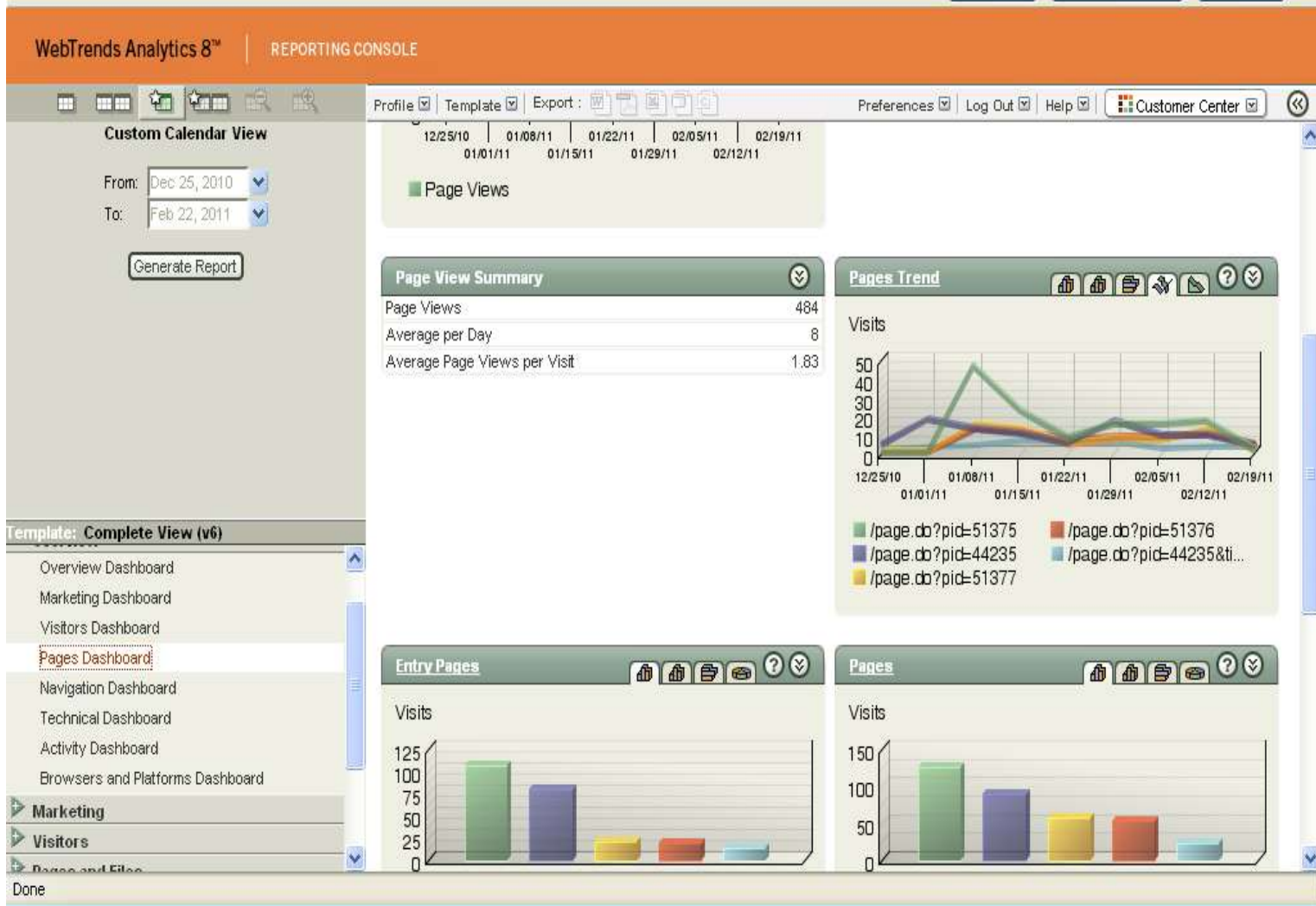
# Publicize Information

*Need Help with a Data  
Management Plan for your  
NSF Proposal?*



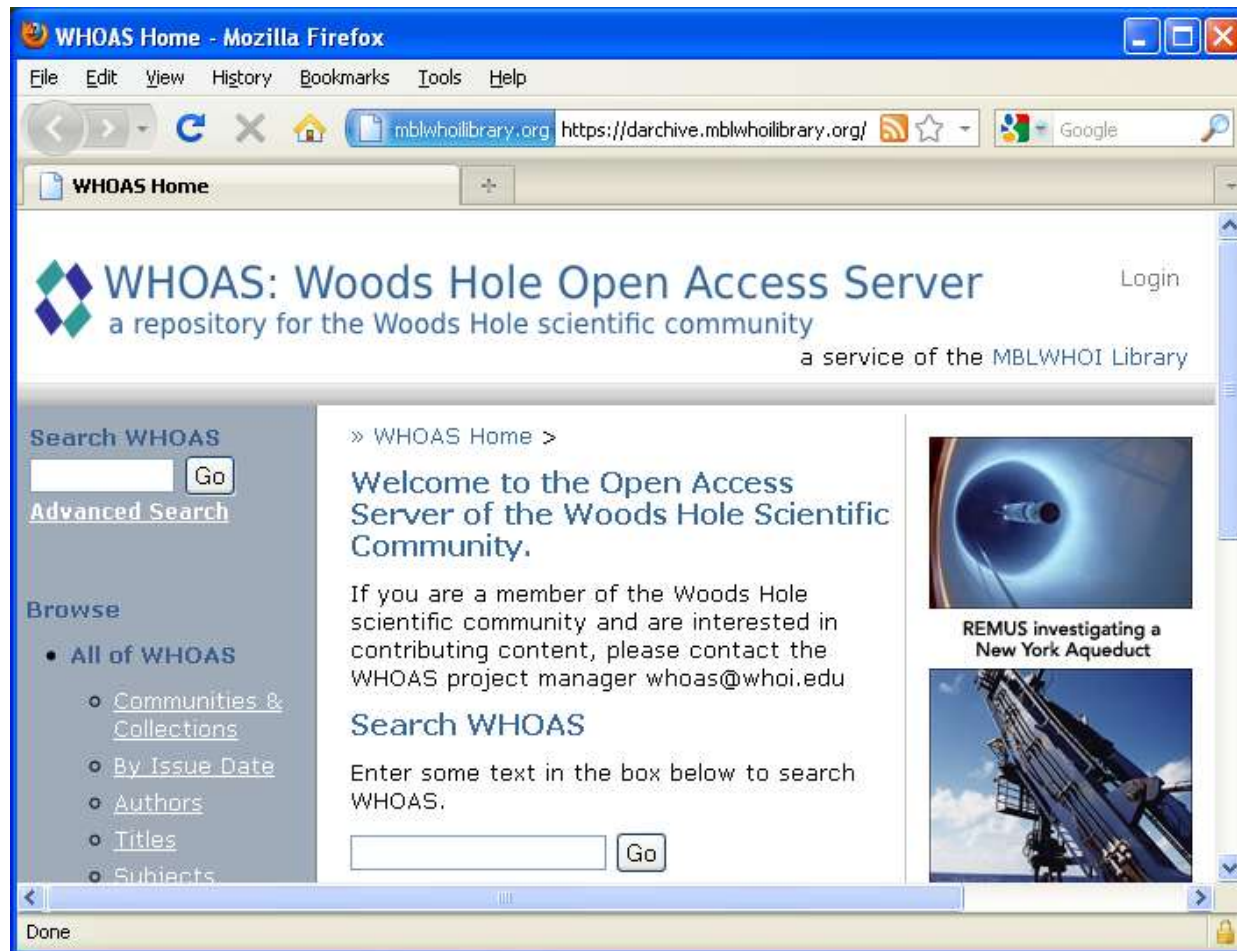
For information, checklist, and resources go to:  
<http://www.who.edu/DataManagement/>

# Website Stats



# Role of the Institutional Repository

## WHOAS




The screenshot shows a Mozilla Firefox browser window displaying the WHOAS website. The browser's address bar shows the URL <https://darchive.mblwhoilibrary.org/>. The website header includes the WHOAS logo, the title "WHOAS: Woods Hole Open Access Server", and the subtitle "a repository for the Woods Hole scientific community". A "Login" link is visible in the top right corner. The main content area features a "Search WHOAS" section with a search input field and a "Go" button. Below this is a "Browse" section with a list of categories: "All of WHOAS", "Communities & Collections", "By Issue Date", "Authors", "Titles", and "Subjects". A central text block welcomes users and provides contact information for the WHOAS project manager. To the right, there are two featured images: one showing a satellite in orbit over the Earth, and another showing a large industrial structure, likely the New York Aqueduct. The browser's status bar at the bottom indicates "Done".

WHOAS Home - Mozilla Firefox

File Edit View History Bookmarks Tools Help

<https://darchive.mblwhoilibrary.org/> Google

WHOAS Home

 **WHOAS: Woods Hole Open Access Server** Login  
a repository for the Woods Hole scientific community  
a service of the MBLWHOI Library

» WHOAS Home »

**Welcome to the Open Access Server of the Woods Hole Scientific Community.**

If you are a member of the Woods Hole scientific community and are interested in contributing content, please contact the WHOAS project manager [whoas@whoi.edu](mailto:whoas@whoi.edu)

**Search WHOAS**

Enter some text in the box below to search WHOAS.

Go

**Search WHOAS**

Go

**REMUS investigating a New York Aqueduct**

Done

# Future

- Possibility of Woods Hole Repository
- What other services do PIs need?
- Sponsor in house workshops on Data Management
- What else?



# Resources

- WHOI Data Management Site: <http://www.whoi.edu/DataManagement/>
- ESIP Workshop: [http://wiki.esipfed.org/index.php/Data\\_Management\\_Workshop](http://wiki.esipfed.org/index.php/Data_Management_Workshop)
- NSF FAQ: <http://www.nsf.gov/bfa/dias/policy/dmpfaqs.jsp>
- Feel free to contact me for any documentation  
[lraymond@whoi.edu](mailto:lraymond@whoi.edu)