

# GHRC WEB PRESENCE

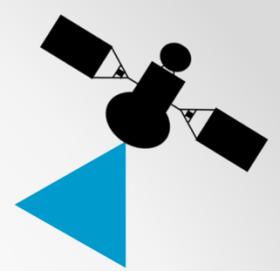
[ghrc.nsstc.nasa.gov](http://ghrc.nsstc.nasa.gov)

Presented by Tammy Smith & Shannon Flynn

GHRC Web Team Collaborators:

Ken Keiser, Matt He, Ajinkya Kulkarni

Presented at the GHRC User Working Group Meeting  
September 25-26, 2014



# Overview

- Purpose
- Website Overview
- Social Media
- Recent Improvements
  - Accessibility
  - Increased Visibility
  - External Review
- Looking to the Future
  - New Website
  - Getting to Data
  - Navigation Improvements
  - Sample Project Page
  - Visual Data Browse Options



# Purpose

- Present information and data in an efficient manner with least number of clicks
- Public face for the GHRC
- Front page for presenting data, documentation, and software products
- Appeal to audience



# Website Overview

- Top Hat
- Featured Items (slider)
- What's New
  - RSS feed
  - Social Media
- Featured projects
- GHRC Data
  - Dataset List
  - Search & Order Data
- Contact User Services



# Social Media

- Current news items from RSS feed (<https://www.itsc.uah.edu/home/ghrcnewsfeed>) posted to Facebook and Twitter

[twitter.com/GHRCDAAC](https://twitter.com/GHRCDAAC)

NASA GHRC  
@GHRCDAAC  
The Global Hydrology Resource Center is one of NASA's Earth Science Data Centers. We provide research quality data to scientists, educators and the public.  
Huntsville Alabama  
ghrc.nsstc.nasa.gov  
Joined February 2012  
2 Photos and videos

Tweets Tweets and replies

Don't miss any updates from NASA GHRC

Worldwide Trends

[facebook.com/ghrc.nsstc](https://facebook.com/ghrc.nsstc)

Global Hydrology Resource Center  
DAAC  
Government Organization

78 likes

Reach a new milestone  
100 Likes

What have you been up to?

Global Hydrology Resource Center DAAC shared a link  
Posted by RSS Graffiti (7) August 19

NASA's Hurricane and Severe Storm Sentinel (HS3) begins its third season of observations this week. Two unmanned Global Hawk aircraft carry instruments to monitor tropical storms and the surrounding environment to investigate the processes that...

HS3 field campaign begins: Data to be archived at GHRC

22 people reached

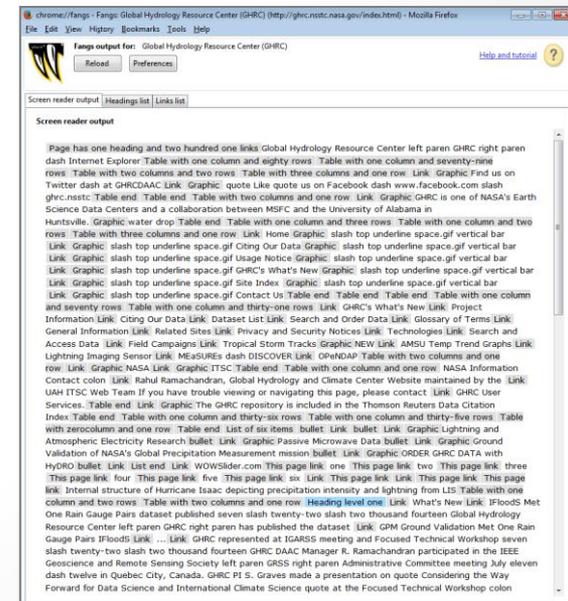
# Accessibility



- What is 508 Compliance?

## Rehabilitation Act of 1973 amended by Congress in 1998

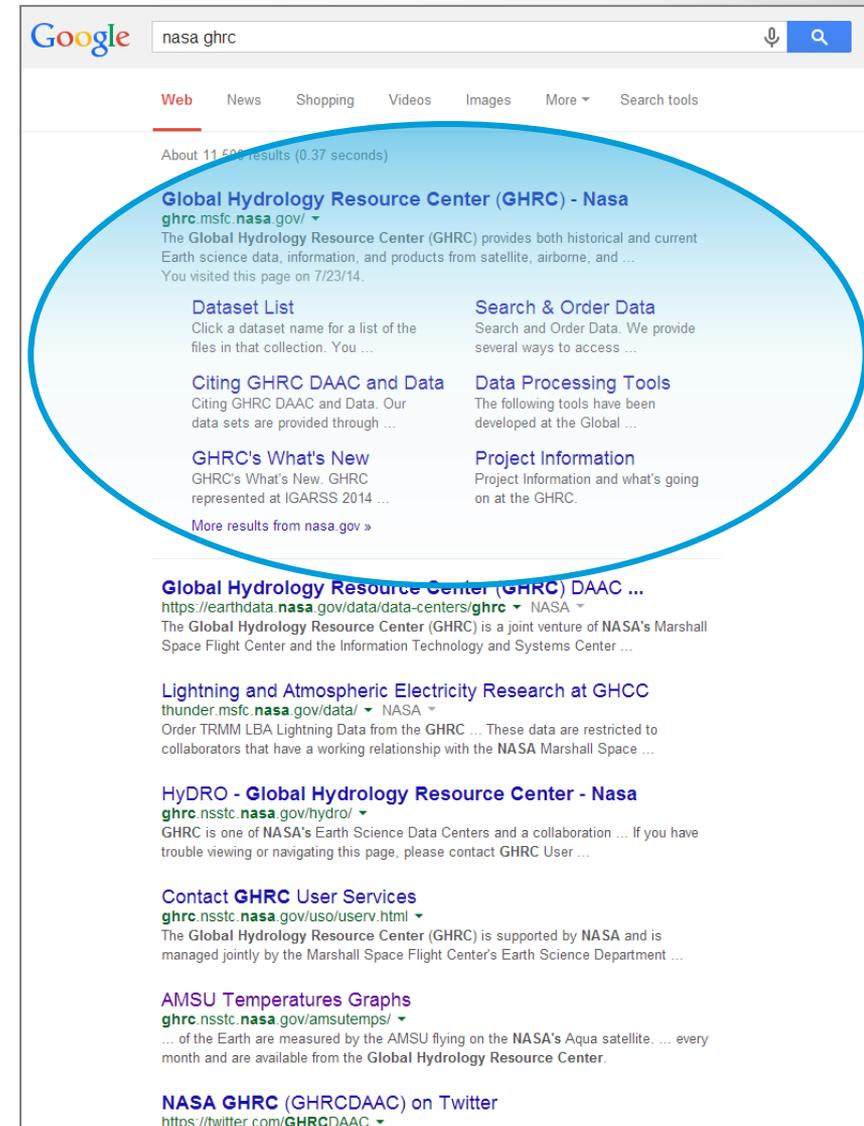
- Amendment requires Federal agencies (i.e., GHRC DAAC) "to make their electronic and information technology (EIT) accessible to people with disabilities."<sup>1</sup>
- Readable by a screen reader or refreshable Braille displays
  - E.g. Text descriptions for visuals, information tables must associate data cells with column/row
- Making the GHRC website 508 compliant
  - The current site was altered to increase 508/accessibility compliance
  - A new site built using Drupal will have many accessibility features built-in



9/25/14 – 9/26/14

# Visibility

- Improved visibility of the GHRC website in search engines
- Added titles and descriptions to each page of the GHRC website
- Microdata
  - Defined set of meta-tags
    - E.g. "organization" or "dataset name"



The screenshot shows a Google search for "nasa ghrc". The search results are displayed on a white background with a blue header. The search bar at the top contains "nasa ghrc" and a search icon. Below the search bar, there are navigation links for "Web", "News", "Shopping", "Videos", "Images", "More", and "Search tools". The search results are listed below, with the first result highlighted by a blue oval. The first result is titled "Global Hydrology Resource Center (GHRC) - Nasa" and includes a URL "ghrc.msfc.nasa.gov/". Below the title, there is a description: "The Global Hydrology Resource Center (GHRC) provides both historical and current Earth science data, information, and products from satellite, airborne, and ...". There is also a note: "You visited this page on 7/23/14." Below the description, there are four links: "Dataset List", "Search & Order Data", "Citing GHRC DAAC and Data", and "Data Processing Tools". There are also two more links: "GHRC's What's New" and "Project Information". Below the search results, there are more results from "nasa.gov".

Google nasa ghrc

Web News Shopping Videos Images More Search tools

About 11,500 results (0.37 seconds)

**Global Hydrology Resource Center (GHRC) - Nasa**  
ghrc.msfc.nasa.gov/

The Global Hydrology Resource Center (GHRC) provides both historical and current Earth science data, information, and products from satellite, airborne, and ...  
You visited this page on 7/23/14.

**Dataset List**  
Click a dataset name for a list of the files in that collection. You ...

**Search & Order Data**  
Search and Order Data. We provide several ways to access ...

**Citing GHRC DAAC and Data**  
Citing GHRC DAAC and Data. Our data sets are provided through ...

**Data Processing Tools**  
The following tools have been developed at the Global ...

**GHRC's What's New**  
GHRC's What's New. GHRC represented at IGARSS 2014 ...

**Project Information**  
Project Information and what's going on at the GHRC.

More results from nasa.gov »

**Global Hydrology Resource Center (GHRC) DAAC ...**  
https://earthdata.nasa.gov/data/data-centers/ghrc NASA

The Global Hydrology Resource Center (GHRC) is a joint venture of NASA's Marshall Space Flight Center and the Information Technology and Systems Center ...

**Lightning and Atmospheric Electricity Research at GHCC**  
thunder.msfc.nasa.gov/data/ NASA

Order TRMM LBA Lightning Data from the GHRC ... These data are restricted to collaborators that have a working relationship with the NASA Marshall Space ...

**HyDRO - Global Hydrology Resource Center - Nasa**  
ghrc.nsstc.nasa.gov/hydro/

GHRC is one of NASA's Earth Science Data Centers and a collaboration ... If you have trouble viewing or navigating this page, please contact GHRC User ...

**Contact GHRC User Services**  
ghrc.nsstc.nasa.gov/uso/userv.html

The Global Hydrology Resource Center (GHRC) is supported by NASA and is managed jointly by the Marshall Space Flight Center's Earth Science Department ...

**AMSU Temperatures Graphs**  
ghrc.nsstc.nasa.gov/amsutemps/

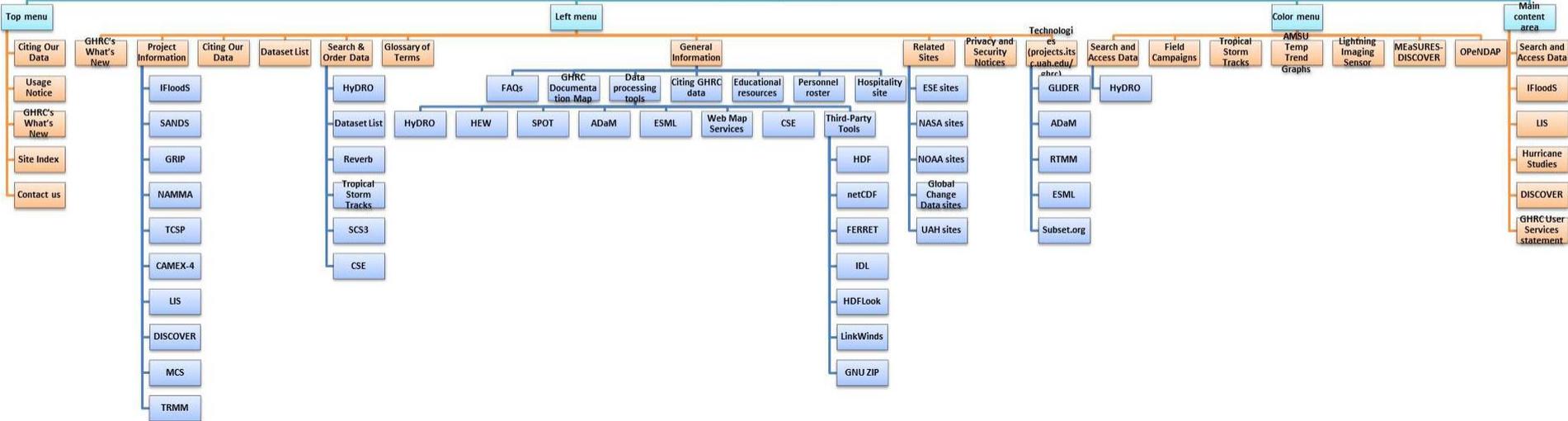
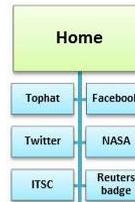
... of the Earth are measured by the AMSU flying on the NASA's Aqua satellite. ... every month and are available from the Global Hydrology Resource Center.

**NASA GHRC (GHRCDAAC) on Twitter**  
https://twitter.com/GHRCDAAC

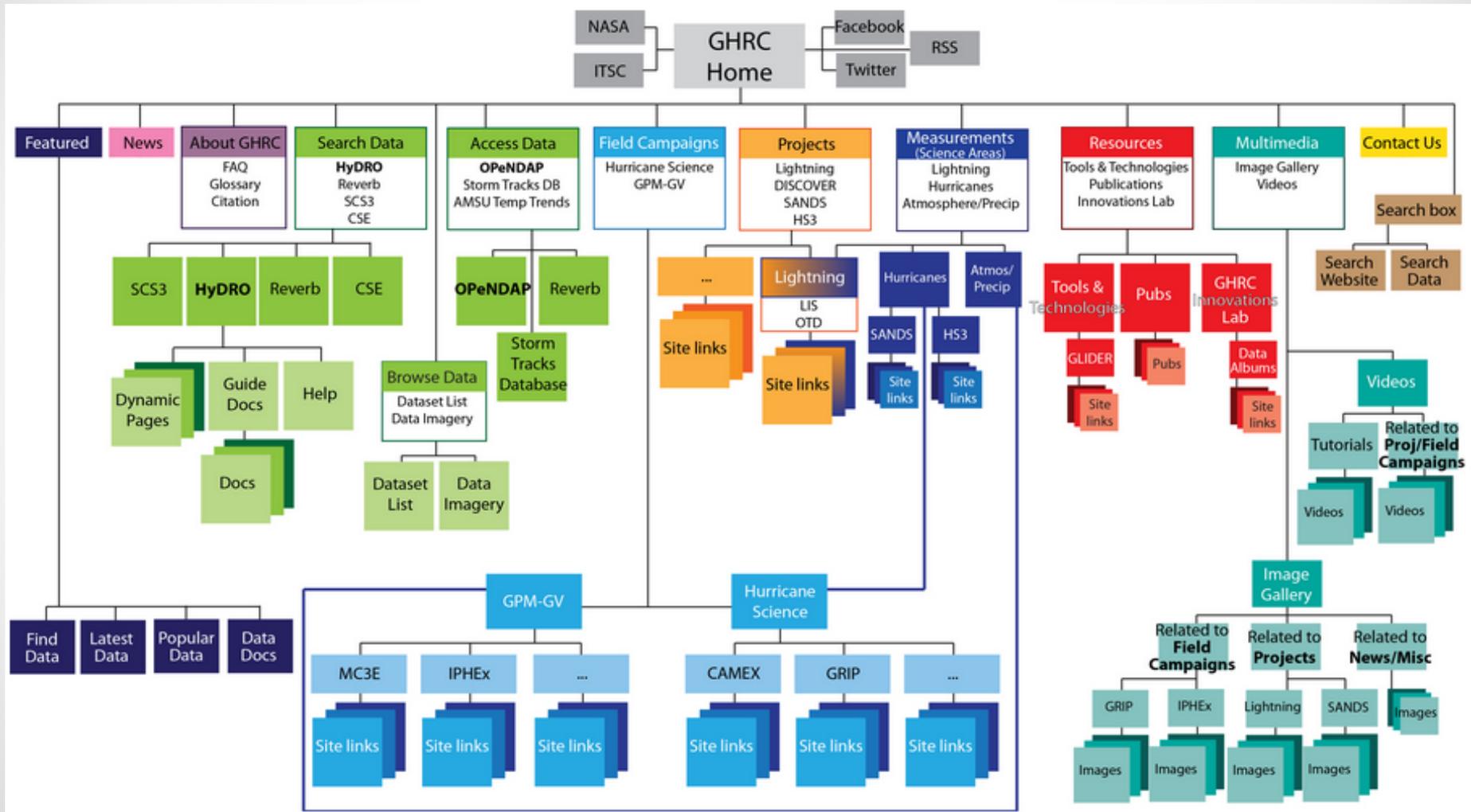
# Improving navigation & organization

- Purpose of site clarified: data holding and distribution
  - Many direct routes to data
  - Simpler home page
- Navigation simplified through consistent menus, breadcrumbs, footer, and content-driven links
  - Existing content remains, but presented with user, not internal organization, in mind
  - Breadcrumbs
  - Menu items chosen to represent most common user activities
  - Clearer presentation and grouping of navigation options
    - 3 main areas on homepage
    - Sub-Menu items
- Less competing imagery and more whitespace facilitates easy scanning of content
  - Facilitates quicker evaluation of content: is this page useful to a user or not?

# Current site organization

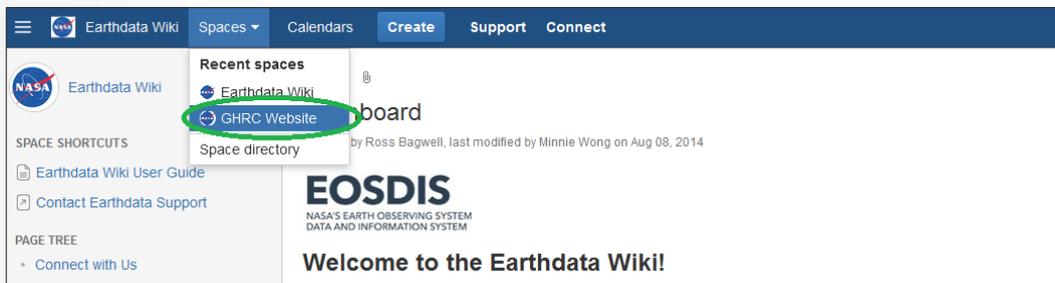


# Future site organization



# Building the site

The site uses a private wiki within the Earthdata wiki environment for its central repository of decisions, documentation, and planning.



The wiki allows for easy tracking of decisions and records of discussion/comments regarding the development process.

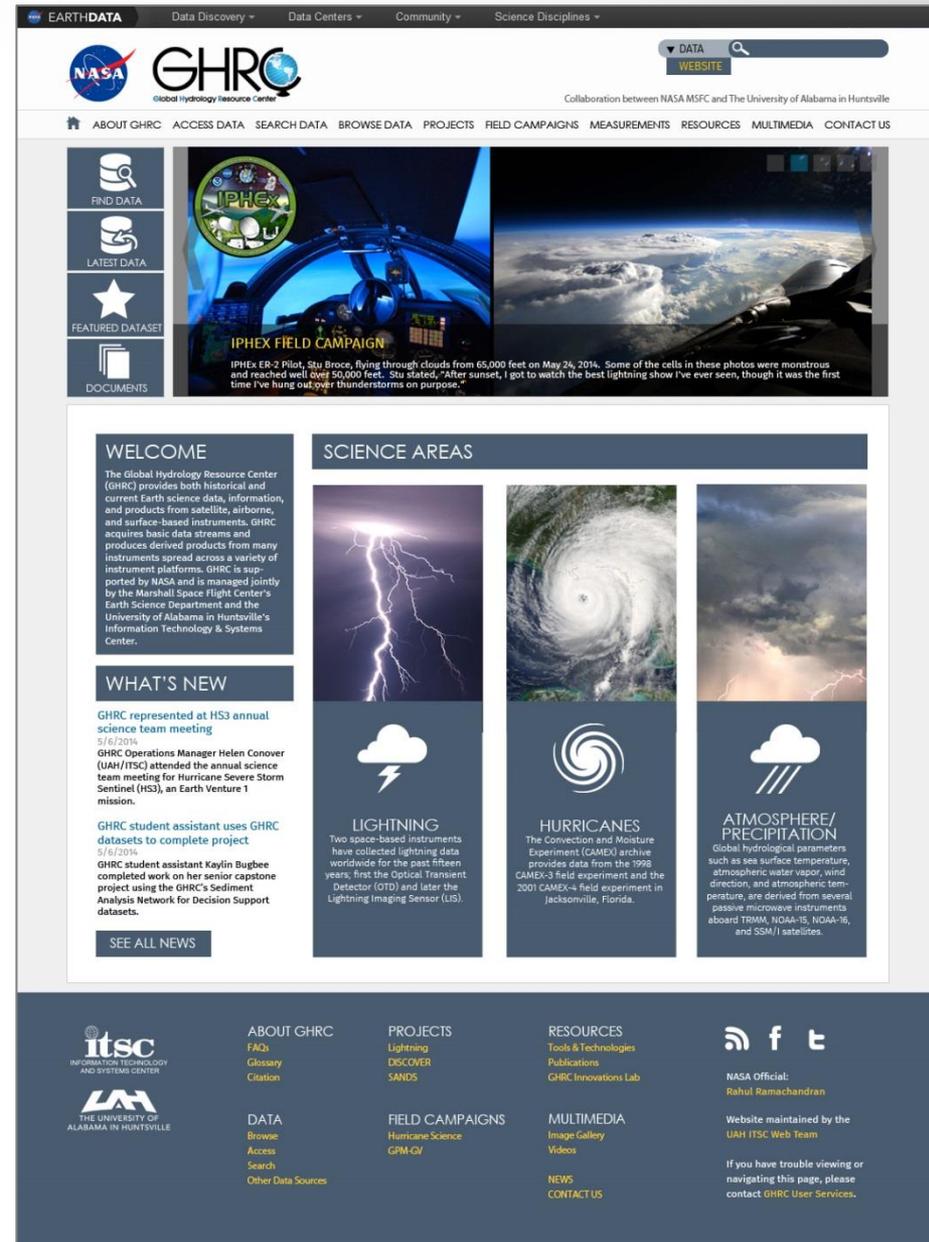


Decision/Task	Status
Check/validate the content types that Matt has created	DECIDED
Decide the Site Banner / Header Image	DECIDED
What base Drupal distribution to use?	DECIDED
Decide the site map and layout	DECIDED
What base theme to use?	DECIDED
Decide mapping between browse images filenames and datasets/granules	NOT STARTED
Browse Image Content Type Design and Related Scripts	DECIDED
Content Types and Vocabularies Design	DECIDED
Should we integrate field campaign portals into the GHRC Website?	DECIDED
How to make a Drupal site 508 compliant?	IN PROGRESS

# New Design

## Looking to the future

- Currently being built
- Uses Drupal Content Management System (CMS)
- Cleaner look and feel
- Easier, more direct navigation
- Accessibility built into theme (508 Compliant)
- Responsive design
  - Accessible from multiple devices



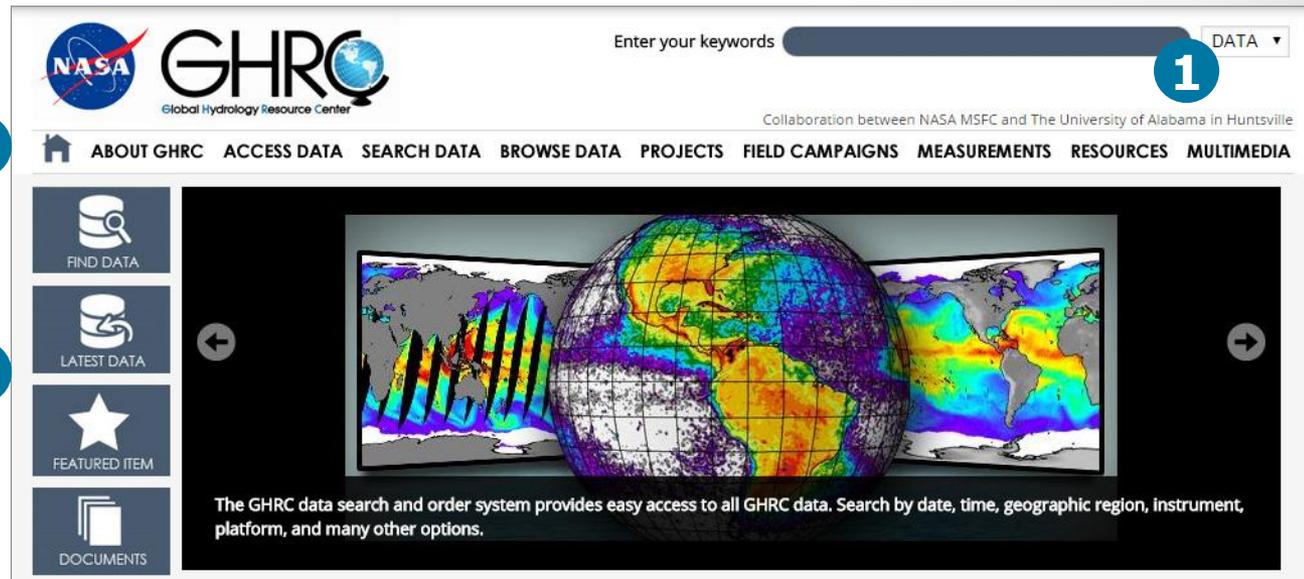
# Getting to Data

User has many options to get data right away

1 Search box at top of page

2

3



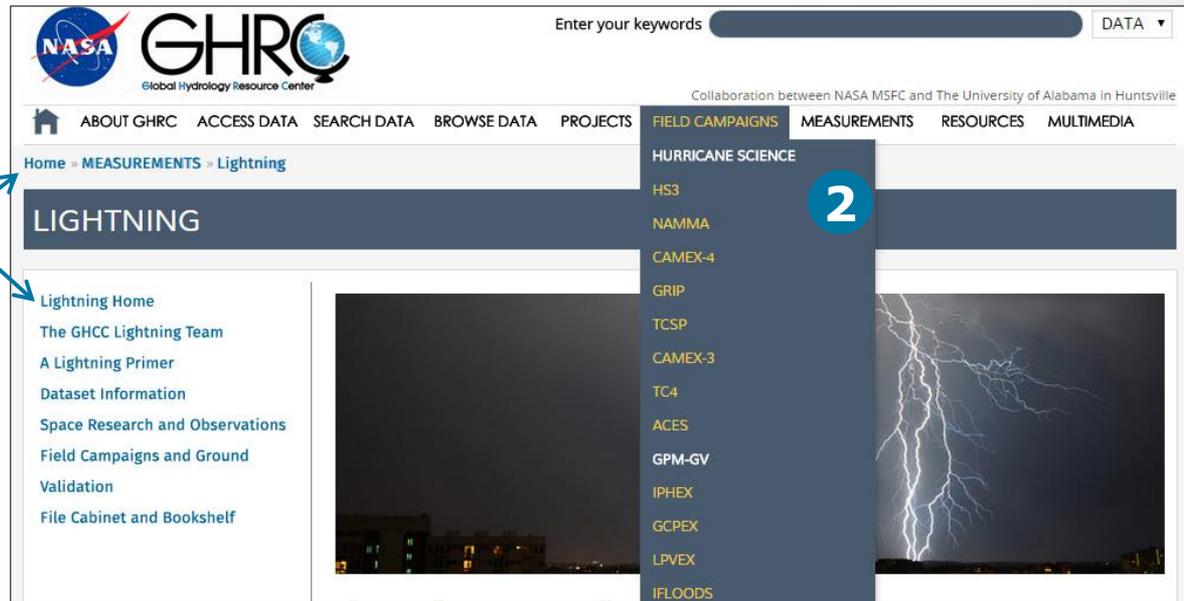
2 Navigation on home page clarifies user choices and emphasizes GHRC is concerned primarily with data

3 Top navigation menu supplemented with additional "quick links" to popular destinations in the form of news-related slides and additional buttons

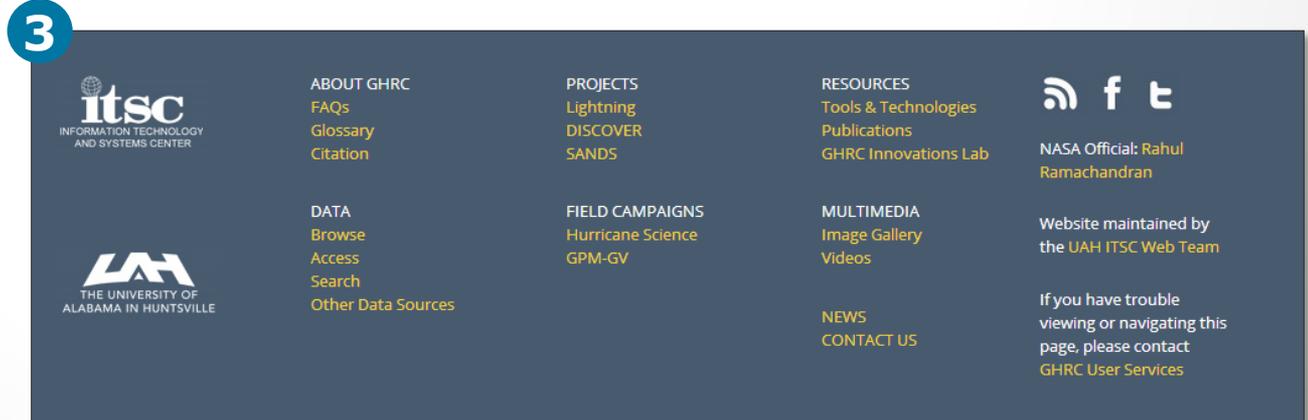
# Navigation Improvements

1 Context-specific breadcrumbs and menus

2 Easy-to-use menus



3 The "Fat Footer" contains a summary of site contents and links to additional resources



NASA GHRC Global Hydrology Resource Center

Enter your keywords  DATA ▾

Collaboration between NASA MSFC and The University of Alabama in Huntsville

ABOUT GHRC ACCESS DATA SEARCH DATA BROWSE DATA PROJECTS FIELD CAMPAIGNS MEASUREMENTS RESOURCES MULTIMEDIA

Home » MEASUREMENTS » Lightning

## LIGHTNING

Lightning Home  
 The GHCC Lightning Team  
 A Lightning Primer  
 Dataset Information  
 Space Research and Observations  
 Field Campaigns and Ground Validation  
 File Cabinet and Bookshelf



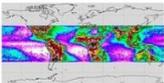
### About Lightning Research

The Lightning Team exists as a group of researchers, mostly scientists and engineers. As part of their research activities, the members of this team have been investigating the causes and effects of lightning as well as analyzing a wide variety of atmospheric measurements related to thunderstorms.

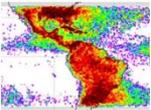
One of the primary objectives of this group is to determine the relationship between the electrical characteristics of storms and precipitation, convection, and severe weather. In order to achieve this objective, the Lightning Team has designed, constructed, and deployed numerous types of ground based, airborne, and space based sensors used to detect lightning and characterize the electrical behavior of thunderstorms. The data collected by the Lightning Team is routinely shared with scientists around the globe, resulting in numerous advancements in the field of Atmospheric Science.

A [Lightning Primer](#) and [File Cabinet and Bookshelf](#) are available along with the featured links below.

Name	Organization
Jeff Bailey	UAH
Monte Bateman	USRA
Phillip Bitzer	UAH
Richard Blakeslee	NASA
Dennis Buechler	UAH
Larry Carey	UAH
Dan Cecil	UAH
Hugh Christian	UAH
David Corredor	UAH
Kevin Knupp	UAH
William Koshak	NASA
Dough Mach	UAH
Bill McCaul	USRA
Scott Podgorny	UAH
Mike Stewart	UAH



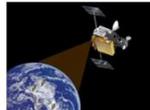
**Global Lightning Image**  
 Global lightning strikes from January 1998 to present day from the NASA/MSFC Lightning/Image Sensor



**Dataset Information**  
 Access to data from the Lightning Team's experiments, information about the data, and links to other sources of lightning data.



**Field Campaigns and Ground Validation**  
 An overview of field programs in which the Lightning Team has participated, including a description of some of the instruments that were used.



**Space Research and Observations**  
 Learn about LIS, OTD, LMS, and other space based lightning detection instruments designed, built, and maintained by the Lightning Team.

itsc INFORMATION TECHNOLOGY AND SYSTEMS CENTER

ABOUT GHRC  
 FAQs  
 Glossary  
 Citation

PROJECTS  
 Lightning  
 DISCOVER  
 SANDS

RESOURCES  
 Tools & Technologies  
 Publications  
 GHRC Innovations Lab

FIELD CAMPAIGNS  
 Hurricane Science  
 GPM-GV

MULTIMEDIA  
 Image Gallery  
 Videos

NEWS  
 CONTACT US

Facebook Twitter LinkedIn

NASA Official: Rahul Ramachandran

Website maintained by the UAH ITSC Web Team

If you have trouble viewing or navigating this page, please contact GHRC User Services

# Sample project "home" page

Individual project pages will not be duplicated and moved into this project, but projects will have a "portal page" provided for them so users can obtain information quickly about the project as a whole before leaving the GHRC site.

# Visual data browse options

- Many GHRC datasets have browse-able images associated with them
- We plan on incorporating this as part of a media gallery view of applicable datasets

The screenshot displays the GHRC (Global Hydrology Resource Center) website interface. At the top, there is a search bar with the text "Enter your keywords" and a "DATA" dropdown menu. Below the search bar, the navigation menu includes "ABOUT GHRC", "ACCESS DATA", "SEARCH DATA", "BROWSE DATA", "PROJECTS", "FIELD CAMPAIGNS", "MEASUREMENTS", "RESOURCES", and "MULTIMEDIA". The main content area is titled "BROWSE VIEW" and features a search filter section with the following options:

- Start Date (field\_start\_date): August, 10, 2010
- End Date (field\_end\_date): September, 28, 2010
- Field Campaign (field\_field\_campaign): - Any -

A "Search" button is located to the right of the filter options. Below the filters, there is a grid of eight data visualizations, including maps and charts, representing various datasets.

# Discussion

## THANK YOU

for your attention!



### Questions?

- 1 Have you used our current web site?
- 2 Can you easily find the data and information you need? Do you have suggestions for improvement?
- 3 What features can we include on our website as we move forward that will serve you (our users) better?
- 4 If there are Earth science data web sites or features that you find particularly useful, please point us to them!

Please contact **GHRC User Services** for any help or questions [ghrcdaac@itsc.uah.edu](mailto:ghrcdaac@itsc.uah.edu)