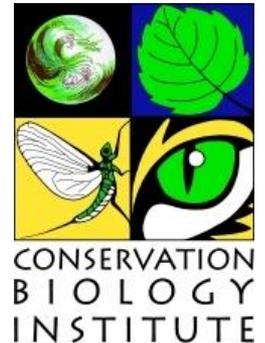




Expanding Access to Conservation Spatial Data, Tools, & People

Tosha Comendant
Great Basin Science
Nov 15, 2010



The Problem



Best available science is often not used in many conservation decisions

WHY?

- Data and information are scattered and often unavailable
- Valuable time and resources are wasted searching for datasets, information, and experts
- There is a fundamental social disconnect between scientists and practitioners

A solution...

Data Basin seeks to **advance science-driven decision making** in conservation by providing:

- open access to datasets
- visualization and sharing tools
- links to people
- applications to solve problems

My Workspace

Datasets

Maps

Galleries

People

Groups

Centers

Explore Data Basin



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PAD-US 1.1 (CBI Edition)

Comprehensive update for US protected areas [Read More.](#)



Data Basin Centers

Data Basin Centers provide focused datasets, maps, galleries, people, and working groups on specific topics or geographies that facilitate more effective collaboration.



The Climate Center

The Data Basin Climate Center centralizes critical climate change datasets and findings about impacts, trends or predicted future scenarios at local and regional scales. [Visit the Climate Center.](#)

[About Data Basin](#)
[Building Blocks](#)
[Tell Your Story](#)
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Bridging Conservation Science and Practice

Data Basin is an online system that connects users with spatial datasets, tools, and a network of scientists and practitioners.

You can explore and download a vast library of datasets, connect to external data sources, upload and publish your own datasets, connect to experts, create working groups, and produce customized maps that can be easily shared. Click on [Join Now](#) to set up your free Data Basin user account.



Building Blocks:



Datasets: Spatially explicit files (ArcShape and ArcGrid)



Maps: Visualized datasets made by users



Galleries: Collections of datasets & maps



People: Directory of Data Basin members



Groups: Subsets of users collaborating around topics

What's possible?

- **Find and contribute datasets & maps**
- **Use web mapping & analysis tools**
- **Publish galleries**
- **Connect & collaborate**
- **Create & manage working groups**

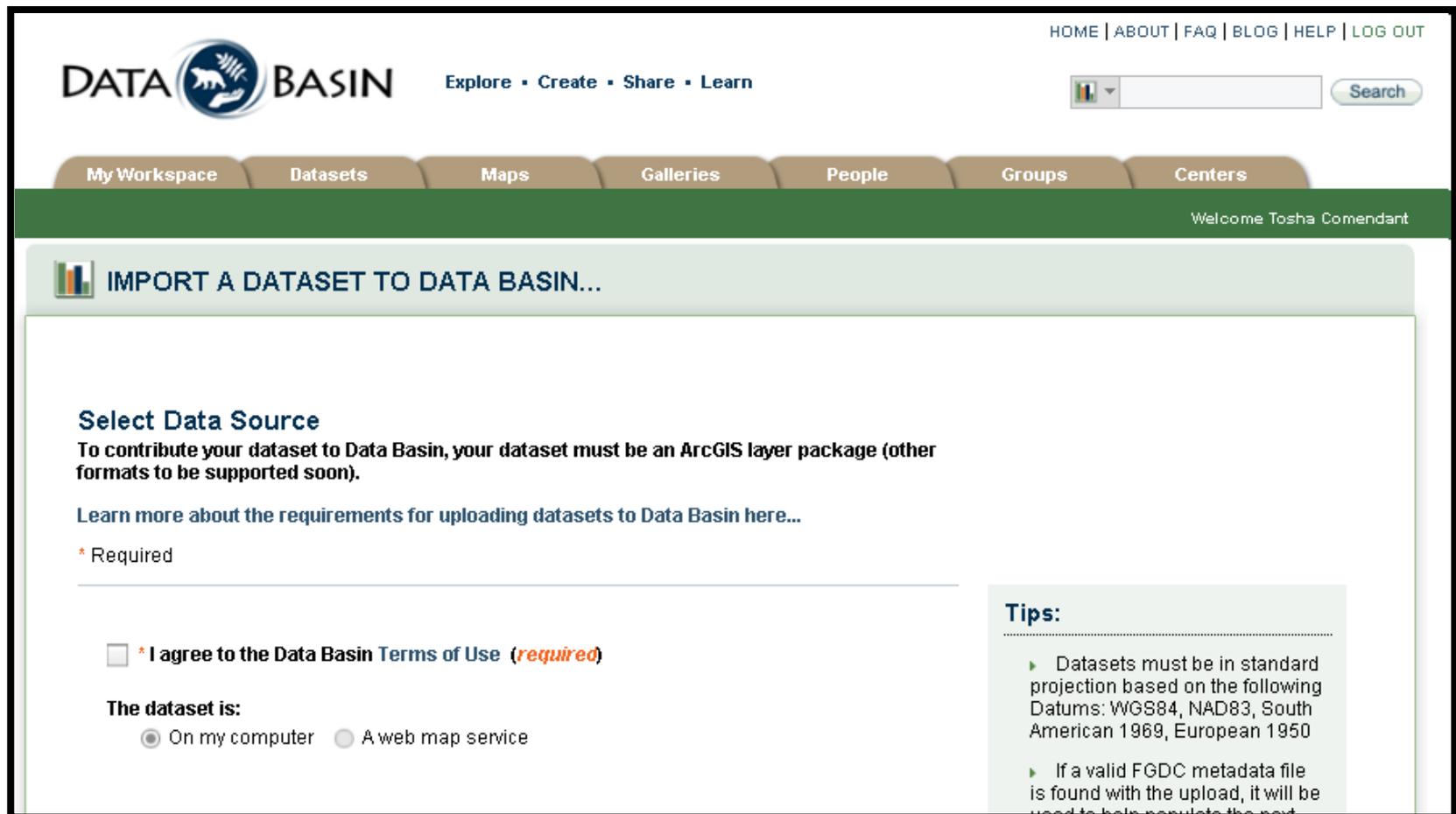
Find and Contribute Datasets & Maps

- Search and gain direct access to spatial datasets

The screenshot displays the Data Basin website interface. At the top, the logo 'DATA BASIN' is visible with the tagline 'Explore • Create • Share • Learn'. Navigation links include 'HOME | ABOUT | FAQ | BLOG | HELP | LOG OUT' and a search bar. A horizontal menu contains 'My Workspace', 'Datasets', 'Maps', 'Galleries', 'People', 'Groups', and 'Centers'. A user profile for 'Tosha Comendant' is shown on the left. The main content area features a dataset titled 'Essential Connectivity Areas of California (USA)' by Conservation Biology Institute, dated Apr 23, 2010. The dataset page includes tabs for 'Overview', 'Attributes', 'Metadata', and 'Ratings'. A map thumbnail shows orange connectivity areas on a map of California. The description text reads: 'The California Department of Transportation (Caltrans) and California Department of Fish and Game (CDFG) commissioned the California Essential Habitat Connectivity Project because a functional network of connected wildlands is essential to the continued support of California's diverse natural communities in the face of human...'. On the right, 'ADMIN TASKS' include 'Feature Item', and 'TASKS' include 'Display in map', 'Bookmark', 'Share', 'Add to gallery', 'Download', and 'Import a Dataset'. A 'Show Preview' and 'Display in Map' button are at the bottom of the dataset card.

Find and Contribute Datasets & Maps

- Search and gain direct access to spatial datasets
- Upload your own data (up to 2 GB free & control privacy)



HOME | ABOUT | FAQ | BLOG | HELP | LOG OUT

DATA BASIN Explore • Create • Share • Learn

Search

My Workspace Datasets Maps Galleries People Groups Centers

Welcome Tasha Comendant

IMPORT A DATASET TO DATA BASIN...

Select Data Source

To contribute your dataset to Data Basin, your dataset must be an ArcGIS layer package (other formats to be supported soon).

[Learn more about the requirements for uploading datasets to Data Basin here...](#)

* Required

* I agree to the Data Basin [Terms of Use](#) (required)

The dataset is:

On my computer A web map service

Tips:

- ▶ Datasets must be in standard projection based on the following Datums: WGS84, NAD83, South American 1969, European 1950
- ▶ If a valid FGDC metadata file is found with the upload, it will be used to help populate the metadata.

Find and Contribute Datasets & Maps

- Search and gain direct access to spatial datasets
- Upload your own data (up to 2 GB free & control privacy)
- **Manage your own private workspace**

The screenshot displays the Data Basin website interface. At the top, the logo 'DATA BASIN' is visible with the tagline 'Explore • Create • Share • Learn'. Navigation links include 'HOME | ABOUT | FAQ | BLOG | HELP | LOG OUT'. A search bar is present with a 'Search' button. Below the navigation bar, a green sidebar contains a menu with options: 'My Workspace Home', 'My Bookmarks', 'My Datasets', 'My Imports', 'My Maps', 'My Galleries', and 'My Groups'. The main content area is titled 'DATA BASIN | MY WORKSPACE' and features a 'MY WORKSPACE' header. Under this header, there are two main sections: 'Datasets' and 'Maps'. The 'Datasets' section includes a description: 'A dataset is a spatially explicit file, currently ESRI shapefile and ArcGRID files.' and a list of 'Recent datasets:' with items like 'National Road Network road ...', 'Global Greenness based on ...', and 'Canada First Nations and ...'. The 'Maps' section includes a description: 'Maps are visualized datasets created with easy-to-use tools in Data Basin.' and a list of 'Recent maps:' with items like 'Rogers' Hadley A2 results ...', 'Deepwater Horizon Gulf of ...', and 'Deepwater Horizon Gulf of ...'. On the right side, there is a 'TASKS' section with a list of actions: 'Create a Map', 'Import a Dataset', 'Create a Group', and 'Create a Gallery'. Below the tasks is a 'How Do I...' button. At the bottom left, a user profile for 'Tosha Comendant' is shown with a 'View My Profile' link.

Web-mapping & analysis tools

- Create, save, and share customized web maps

Welcome Tasha Comendant

Alaska Human Development - Caribou and Polar Bears

More map info

Tasks View Help Pan Zoom Identify Full Screen

LONG: -152.05 | LAT: 67.61

Datasets

add datasets

- Alaska (USA) Department of Natural Resources (DNR) State Mining Claims
 - details
 - zoom
 - style
 - transparency
 - remove
- Active Federal Mining Claims in Alaska
- Alaska Anadromous Fish Streams
- Alaska Polar Bear Maternal Den Habitat
- Alaska Pipelines
- Alaska Coal Resources
- Alaska Oil and Gas Wells
- Range of the Porcupine Caribou Herd - Alaska, USA

Web-mapping & analysis tools

- Create, save, and share customized web maps
- Simple analysis tools

The screenshot displays a web-mapping application interface. At the top, the title is "Alaska Human Development - Caribou and Polar Bears". The map shows Alaska with various overlays, including a red line representing the Trans-Alaska Pipeline and blue lines representing rivers. The map is centered on a location with coordinates LONG: -153.56 | LAT: 70.02.

On the left, there is an "Identify" panel showing the following information:

longitude: -149.56 | latitude: 68.09

- ▶ Alaska (USA) Department of Natural Resources (DNR) State Mining Claims
- ▶ Active Federal Mining Claims in Alaska
- ▶ Alaska Anadromous Fish Streams
- ▶ Alaska Polar Bear Maternal Den Habitat
- ▼ Alaska Pipelines
 - feature 132 18 features identified

name	value
FID	132
Shape	Polyline
SOURCE	SPCO
NAME	TRANS-ALASKA PIPELINE
SCALE	24000
SOURCEDATE	06/18/92
DISPLAY	N
- ▶ Alaska Coal Resources
- ▶ Alaska Oil and Gas Wells
- ▶ Range of the Porcupine Caribou Herd - Alaska, USA

On the right, there is a "Base Maps" panel with the following options:

- World Terrain
 - Source: ArcGIS Online
 - Boundaries & labels
 - Base map
- World Topography
 - Source: ArcGIS Online
- World Streets
 - Source: ArcGIS Online
- World Imagery
 - Source: ArcGIS Online
 - Boundaries & labels
 - Base map

The map interface includes navigation tools: Pan, Zoom, Identify, and Full Screen. The map also shows labels for "Alaska (USA)" and "Yukon".

Publish galleries

Highlight current events or new insights

Oil Spill in the Gulf of Mexico
Protected Areas at Risk



Deepwater Horizon Gulf of Mexico oil spill
May 26, 2010
by Conservation Biology Institute

Overview **Datasets** Maps Ratings

Contents: 25 datasets

Items per page: 5

Deepwater Horizon Oil Spill Trajectory: WFSROMS
07/08/2010
Created Jul 5, 2010 by Conservation Biology Institute

Roughly digitized version of the Deepwater Horizon oil spill trajectory ensemble forecast from different numerical models, a joint effort of the Ocean Circulation Group and the Optical ...

[view details](#)
[display in map](#)
[\[+\] more](#)

Deepwater Horizon Oil Spill Trajectory: WFSROMS
07/04/2010
Created Jul 5, 2010 by Conservation Biology Institute

Roughly digitized version of the Deepwater Horizon oil spill trajectory ensemble forecast from different numerical models, a joint effort of the Ocean Circulation Group and the Optical ...

[view details](#)
[display in map](#)
[\[+\] more](#)

Deepwater Horizon Oil Spill Trajectory: WFSROMS
07/02/2010
Created Jun 29, 2010 by Conservation Biology Institute

Roughly digitized version of the Deepwater Horizon oil spill trajectory ensemble forecast from different numerical models, a joint effort of the Ocean Circulation Group and the Optical ...

[view details](#)
[display in map](#)
[\[+\] more](#)

Deepwater Horizon Oil Spill Trajectory: WFSROMS
06/27/2010
Created Jun 24, 2010 by Conservation Biology Institute

Roughly digitized version of the Deepwater Horizon oil spill trajectory ensemble forecast from different numerical models, a joint effort of the Ocean Circulation Group and the Optical ...

[view details](#)
[display in map](#)
[\[+\] more](#)

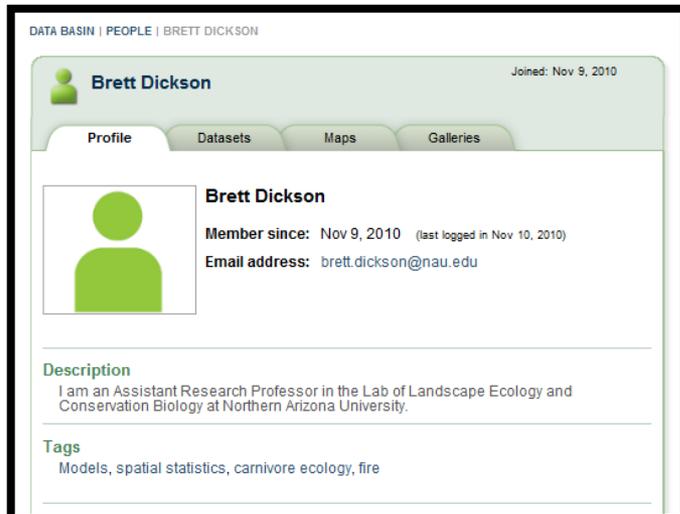
Deepwater Horizon Oil Spill: Threatened On-Shore Areas More maps

Tasks View Help Pan Zoom Identify Full Screen

A detailed map of the Gulf of Mexico coastline, showing the Mississippi River delta and surrounding areas. The map is overlaid with a grid and various colored regions, including green and blue areas, indicating threatened on-shore areas. Labels include 'New Orleans', 'Metairie', 'Gulfport', and 'Ponchatoula'. The map also shows major roads and water bodies.

Connect & Collaborate

- **Connect with experts and potential collaborators**
- **Create and manage groups for collaboration, review, & negotiation**
- **Interact with Data Basin through our blog & social media**



DATA BASIN | PEOPLE | BRETT DICKSON

Brett Dickson Joined: Nov 9, 2010

Profile Datasets Maps Galleries

Brett Dickson
Member since: Nov 9, 2010 (last logged in Nov 10, 2010)
Email address: brett.dickson@nau.edu

Description
I am an Assistant Research Professor in the Lab of Landscape Ecology and Conservation Biology at Northern Arizona University.

Tags
Models, spatial statistics, carnivore ecology, fire



DATA BASIN Explore • Create • Share • Learn

My Workspace Datasets Maps Galleries Pe

Great Basin connectivity

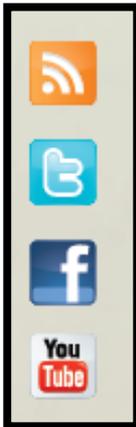
DATA BASIN | GROUPS | GREAT BASIN CONNECTIVITY | HOME

Great Basin connectivity

Welcome.

Welcome to the home page for the Great Basin connectivity project. For more information on the project please contact Erica Fleishman, (530) 754-9167, fleishman@bren.ucsb.edu

Tosha Comendant
View My Profile





Data Basin Centers



The Climate Center

The Data Basin Climate Center centralizes critical climate change datasets and findings about impacts, trends or predicted future scenarios at local and regional scales.



The Boreal Information Centre

The Boreal Information Centre contains high-quality geospatial datasets and information to aid management of the North American boreal forest biome.



The Aquatic Conservation Center

The Aquatic Conservation Center contains data, tools, and experts working to increase the resilience of freshwater and marine biodiversity.



The Protected Area Center

The Data Basin Protected Areas Center centralizes critical global data, including full access to the PAD-US v1.1 (CBI Edition).

DATA BASIN

www.databasin.org

Questions/feedback?
databasin@consbio.org

Sponsors



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