Registering Data on OBFS

The Knowledge Network for Biocomplexity (KNB)

- A national network to facilitate ecological and environmental research
- A technological approach to documenting and storing ecological data and metadata
- Adopted by OBFS, LTER, ESA (pilot 2006), PISCO, UCNRS, and others

The Knowledge Network for Biocomplexity (KNB)

- Consolidates data and metadata from a highly-distributed set of individual researchers, field stations, laboratories, and research sites

- Expedites metadata discovery, access, interpretation, integration and analysis

Register with KNB

- To begin register as a user at the KNB site http://knb.ecoinformatics.org/index.jsp

- Scroll down the page until you find the login & registration box in lower left of the page

- Click on the link create a new account

- **Write down your username, organization and password as you will use this in Morpho**

login & registration

Logging into your account enables you to search any additional, non-public data for which you may have access privileges:

You are NOT logged in

username: sromanello

organization: – choose one –

password: **********   Login

create a new account
forgot your password?
change your password

Creating a KNB account

- Fields with asterisks are required
- Select OBFS for your organization
- Remember your username, password, and organization for future use

The OBFS Data Registry

- Creates an EML document for the metadata of your data set

- Stores the document on the KNB

- Allows others to browse data packages associated with OBFS

Organization of Biological Field Stations
Data Registry

OBFS Home   Registry Home   Register a New Data Set   Search for Data

Welcome to the OBFS Data Registry. This is the primary source for comprehensive information about scientific and research data sets collected within or under the auspices of the Organization of Biological Field Stations.

This project is a cooperative effort of **OBFS**, the **National Center for Ecological Analysis and Synthesis (NCEAS)**, the **UC Natural Reserve System**, and the **LTER Network Office**. The Data Registry is based on software developed by the **Knowledge Network for Biocomplexity (KNB)**, and houses metadata that are compliant with **Ecological Metadata Language (EML)**.

Credit for the data sets in this registry goes to the investigators who collected the data, and also to the OBFS sites and system for providing an effective and pleasant environment for research and education at the individual research stations. Our particular thanks go out to the OBFS reserve managers, scientists, and stewards for their comments and continuing support.

Registry Tools

- **Browse existing OBFS data sets**

  The registry search system is used to locate data sets of interest by searching through existing registered data sets. Presently the search covers all fields, including author, title, abstract, keywords, and other documentation for each dataset. (More sophisticated search capabilities, including boolean field searches, will be available in future.)

- **Register a new OBFS data set**

  The registration page is used to submit information about a **new** data set associated with OBFS research. The documentation about the data set will be reviewed and then submitted to the Registry.

Finding the Registry

- Go to the OBFS website
  - www.obfs.org
- Click the "Metadata Catalog" link
- Click the "Registry Home" link

Searching for OBFS data

- Two methods
- Browse all available data
- Search for specific terms

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Search Results

- Click "View" or the name of the data package to see the description
- "Edit" and "Delete" functions are controlled by access rights

OBFS Data Registry Activity

- The following slides are set up to take you step by step through the process of registering your data on the OBFS data registry

- If you have any questions please feel free to ask the facilitators.

- Please submit your 10 sets as homework during the week.

OBFS Data Registry Activity

- To begin go to the OBFS site http://obfs.org/

- In the left panel you will notice a link "Ecological Data Sets"

- Click on the link to open the OBFS data registry page

Registering data

- Return to the OBFS Registry Home
- Click "Register a New Data Set"

http://knb.ecoinformatics.org/style/skins/obfs/index.html

OBFS Data Registry Form

- Please fill out the information on this form to register your 10 data sets.

For Help in filling out the form click on the link "Guide for Completing the Data Registry Form"
The astrict *Denotes a required field.

The Registry Form

- Fields with an asterisk are required
- The "Guide for Completing the Data Registry Form" provides info on best practices
- Click "What's This?" for more an explanation of the fields in that section

The Registry Form: Basic Information

- The name is for the person completing the form, NOT the data set owner
- The title should be informative (i.e. not just the name of a computer file)
- Remember to select your research station from the list

The Registry Form: Data Set Owner

PRINCIPAL DATA SET OWNER (What's this?)   Hide

*First Name	
*Last Name	
Organization Name	
E-Mail	
Phone	
FAX	
Street Information	

(number, street, unit, etc.; comma-separated)

City	
State	Select state here.
Other State/Province	
Postal Code	
Country	

- Enter the name and contact information for the primary owner for the data

The Registry Form: Associated Parties

- List any additional people associated with the dataset
- Click "Add Associated Party" to add the party (parties are NOT added until this button is pressed)

The Registry Form: Associated Parties

ASSOCIATED PARTIES (What's this?)   Hide

First Name [   ]
Last Name   [   ]
Role   [Co-owner   ▼]
            [Add Associated Party]

▲ ▼ ✕ Jane Doe (Role: Co-owner)

▲ ▼ ✕ John Smith (Role: Co-owner)

- Entered parties appear at the bottom of the section

- Delete entered parties or rearrange the order using the buttons beside their names

The Registry Form: Abstract

DATA SET ABSTRACT (What's this?)   Hide

*Data Set Abstract [   ]

- Enter a brief description of the dataset, including content and purpose

The Registry Form: Keywords

KEYWORD INFORMATION (What's this?)   Hide

For samples, see **NASA Global Change Master Directory (GCMD)**.

Keyword [   ]

Keyword Type [None   ▼]

Keyword Thesaurus [None   ▼]

[Add Keyword]

- Add keywords to the list
- Select the type of keyword
- State whether the keyword came from the Global Change Master Directory
- Click "Add Keyword" to enter the keyword

The Registry Form: Keywords

KEYWORD INFORMATION (What's this?)   Hide

For samples, see **NASA Global Change Master Directory (GCMD)**.

Keyword [   ]

Keyword Type [None   ▼]

Keyword Thesaurus [None   ▼]

[Add Keyword]

⬆ ⬇ ✕ **Biomass (Type: Theme, Thesaurus: GCMD)**

⬆ ⬇ ✕ **Estuarine Habitat (Type: Place, Thesaurus: GCMD)**

- Entered keywords are listed at the bottom of the section

Global Change Master Directory Keywords

- A list of keywords relevant to global change

- Using keywords from this list will improve the visibility of your dataset

- Most relevant keywords are in the "EARTH SCIENCE >Biosphere" section

http://gcmd.nasa.gov/Resources/valids/gcmd_parameters.html

The Registry Form: Temporal Coverage

TEMPORAL COVERAGE OF DATA (What's this?)   Hide

	Start Date		Stop Date
*Year (yyyy)		Year (yyyy)	
*Month	00 ▼	Month	00 ▼
*Day	00 ▼	Day	00 ▼

Note: Leave "Stop Date" blank if your data set is open-ended.

- Select a start date for the dataset
- If a defined endpoint exists, select a stop date

The Registry Form: Spatial Coverage

- Describe where the data collection occurred
- Enter the bounding coordinates of the data collection
- Remember to enter the NW corner of the collection first

SPATIAL COVERAGE OF DATA (What's this?)   Hide

*Geographic Description

General description of the geographic area in which the data were collected. It can be a simple place name (e.g., Santa Barbara) or a fuller description.

COORDINATES

	Degrees	Minutes	Seconds	
*Latitude				○ North ○ South
*Longitude				○ West ○ East

If only this first lat/long pair is entered, this indicates a point location. If both lat/long pairs are entered, then this first pair represents the northwest corner of a bounding box.

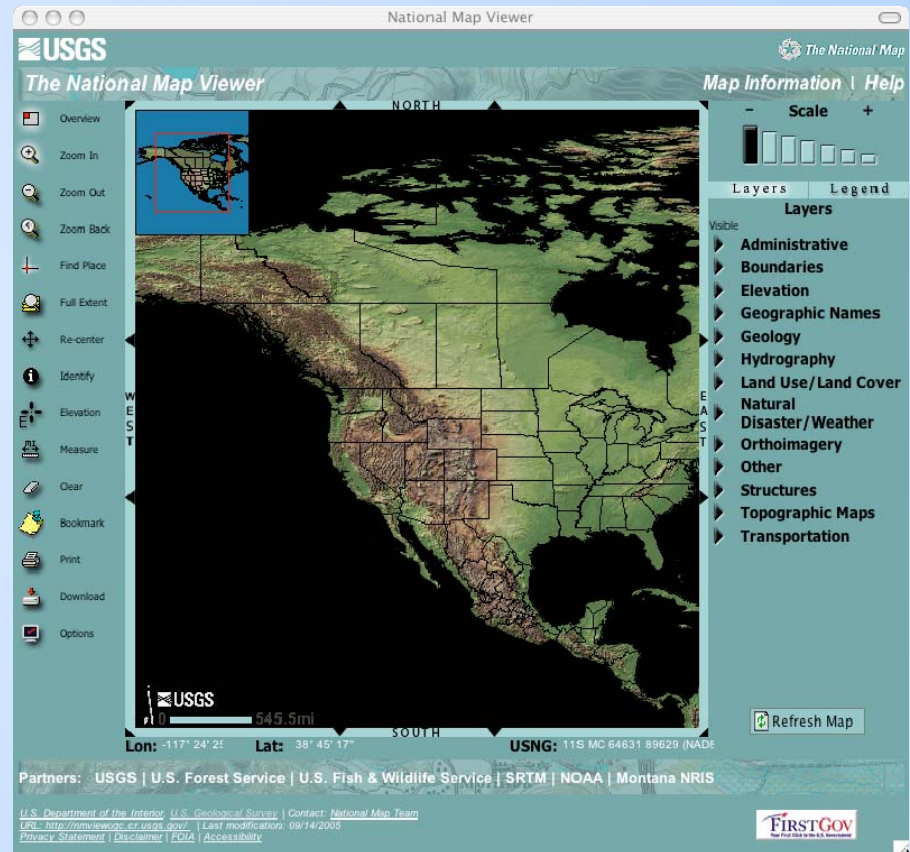|				
Latitude				○ North ○ South
Longitude				○ West ○ East

If entered, this lat/long pair represents the southeast corner of a bounding box.

The USGS National Map

- Detailed map system for the USA
  - Can view streams, roads, and cities through layers
- Google Earth is another interface for finding bounding coordinates
  http://earth.google.com

http://nationalmap.gov

The Registry Form: Taxonomic Coverage

TAXONOMIC COVERAGE OF DATA (What's this?)   Hide

See the **Glasgow Taxonomic Name Server** or the **Integrated Taxonomic Information System** for correct spelling of taxonomic names.

Taxonomic Rank [   ]   (e.g., Species)

Taxonomic Name [   ]   (e.g., *Ursus arctos*)

[Add Taxon]

Taxonomic Reference [
                                        ]

List the source(s) used for identifying and naming taxa (e.g., name of a field guide, key, or nomenclature revision).

- List the name and rank of the taxa covered in the data
  - For the species rank, enter the full binomial name
- Click "Add Taxon" to enter the values
- You can also list the reference you used for identifying taxa

The Registry Form: Taxonomic Coverage

- Taxa appear below the "Add Taxon" button

TAXONOMIC COVERAGE OF DATA (What's this?)   Hide

See the **Glasgow Taxonomic Name Server** or the **Integrated Taxonomic Information System** for correct spelling of taxonomic names.

Taxonomic Rank [   ] (e.g., Species)

Taxonomic Name [   ] (e.g., *Ursus arctos*)

[Add Taxon]

△▽✕ Rank: Phylum, Name: Arthropoda

△▽✕ Rank: Genus, Name: Drosophila

△▽✕ Rank: Species, Name: Drosophila melanogaster

△▽✕ Rank: Phylum, Name: Nematoda

△▽✕ Rank: Family, Name: Rhadbitidae

△▽✕ Rank: Species, Name: Caenorhabditis elegans

Taxonomic Reference [   ]

List the source(s) used for identifying and naming taxa (e.g., name of a field guide, key, or nomenclature revision).

The Integrated Taxonomic Information System (ITIS)

- Search engine for current taxon names

- Ensures common nomenclature for taxa in registry

http://www.itis.usda.gov

The Integrated Taxonomic Information System (ITIS)

- Lists the currently accepted name for the taxon

- Lists full taxonomic hierarchy

The Registry Form: Methods

- Enter methods used to collect data
- Add paragraphs as needed
- Describe the method of sampling and extent of the study

DATA COLLECTION METHODS (What's this?)   Hide

Method Title

Method Description

Add Paragraph to Method Description

Extent of Study Description

Describe the temporal, spatial and taxonomic extent of the study, supplementing the information on coverage provided above.
For example, if the temporal coverage of the data is 1990-2000, you might provide details about any years that were missed or the months in which sampling occurred.

Sampling Description

Describe the sampling design of the study. For example, you might describe the way in which treatments were assigned to sampling units.

The Registry Form: Data Set Contact

- Enter the information for the primary contact for the dataset
- Check the box at the top if the contact is the same person as the owner

The Registry Form: Distribution Information

DISTRIBUTION INFORMATION (What's this?)   Hide

Data Set Identifier [   ]

Note: If available, please enter a name or number that uniquely identifies and describes concisely the data set. Alternatively, provide other pertinent information that can identify and locate the data set within your site's data management system.

*Data Medium   ○ Digital   ○ Hardcopy   ○ Other [   ]

*Usage Rights   ○ No restrictions   ○ Obtain permission from data set owner(s)

                     ○ Other [   ]

URL [   ]

Additional Information [

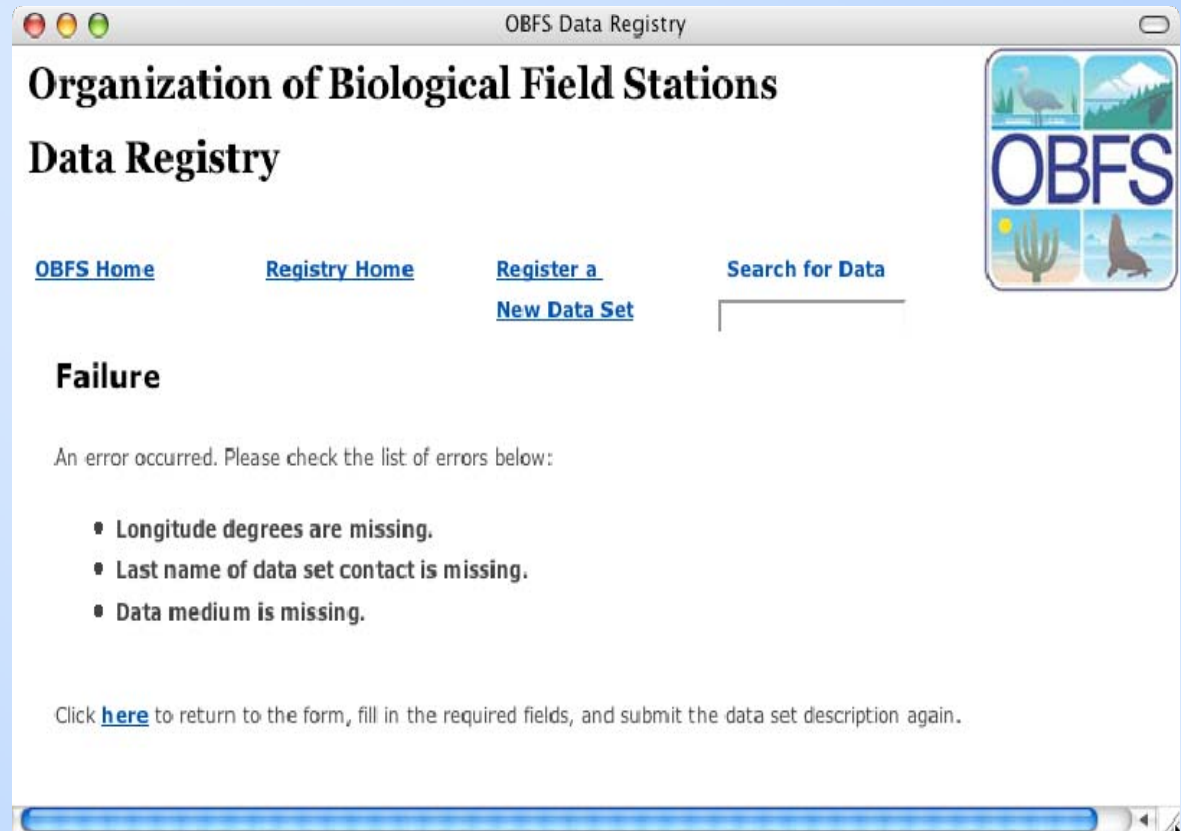
                           ]

- Enter the format of the stored data
- Describe usage restrictions of the dataset
- List a URL or identifier for the dataset, if available

Metadata Submission: Error Checking

- When you click "submit", the form will be checked to ensure all required information is entered

- Any missing fields will be listed in a screen like this

Metadata Submission: Review

- Check to ensure that the metadata is all correct
- Click "submit" if correct
- Otherwise click "go back to editing"

Metadata Submission: Login and Send

- Enter your KNB account username and password
- Remember to select OBFS for your organization

SIGN IN

NOTE: You must enter your username and password. This is for the protection of your metadata. The username and password will prevent any unauthorized person from modifying your metadata. If you do not have an account, click here. If you don't remember your password, you can have it reset and e-mailed to you by clicking here. If you want to change your password, click here.

Username: [   ]

Organization: [unaffiliated ▾]

Password: [   ]

Is the information above correct?

[Yes, submit]   [No, go back to editing]

Metadata Submission: Confirmation

- If the data entry is successful, you should see this screen

- Otherwise, a screen explaining what happened should appear

CONGRATULATIONS!!!

Help for Web Registry

- Guide for Completing the Data Registry Form
- KNB Metadata Coordinators (at NCEAS)
  - (805) 892-2160
  - Callie Bowdish
  - Veronique Connolly
  - Will Tyburczy
- knb-help@nceas.ucsb.edu