

## Exercise 5: Data Basin Overview (15 minutes)

Goals:

- Tour Data Basin and gain an understanding of some of its features, including how to import, discover, organize and interact with data.
- Understand the difference between public and private groups, maps and data and how to create each.
- Understand how to import services from ScienceBase for use in Data Basin
- Perform hands on exercises where you will create groups and galleries, import, search and organize data, and create a map.
- Tour Region 8's gateway hosted by Data Basin

### 1. Sign In

In order to add data or access secured data hosted in ScienceBase, you must log in to Data Basin with the USGS sign in option and use your Active Directory user name and password. If you aren't signed in already, go to <http://databasin.org/> and in the top menu bar, select **Sign In** at the top right corner of the page.



Click on the **USGS** button on the lower right.

A screenshot of the Data Basin login form. It features two input fields: "Username" and "Password". Below the password field is a link "forgot your password?". A blue "Sign In" button is centered below the fields. Underneath, it says "Or sign in using:" followed by four social media icons: Google, Facebook, Yahoo!, and USGS. The USGS icon is circled in red.

In the ScienceBase login window that appears, enter your username and your Active Directory password, then select **Login**.

## Authentication

Username:  e.g., jdoe@usgs.gov

Password:

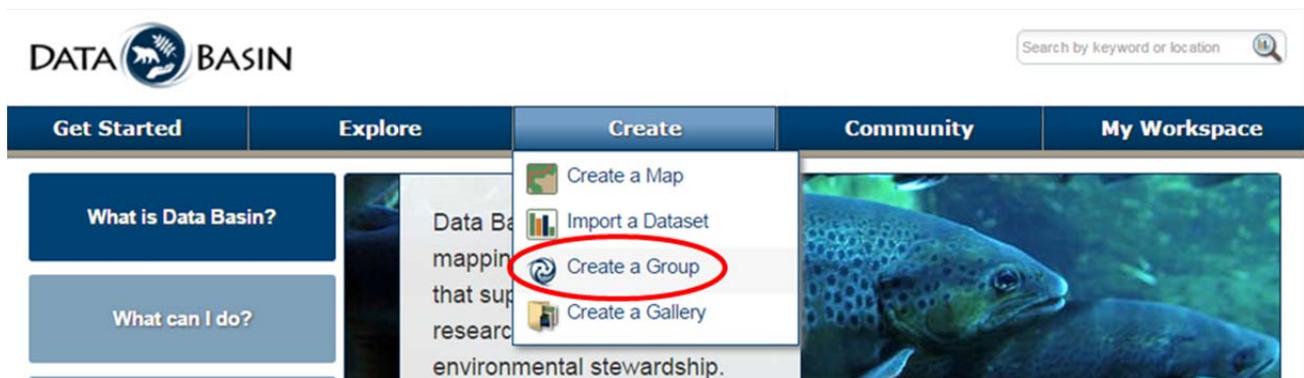
Login

**DOI users:** Please use your Department of Interior email address (@usgs.gov, @fws.gov, @blm.gov, @usbr.gov, @bia.gov, @boem.gov, @bsee.gov, @nps.gov, @osmre.gov, or @doi.gov), and your **Active Directory** password to log in.

**Non-DOI users:** Please use your my.usgs.gov username (email address) and password.

## 2. Create a Group and add members

To create a new group, select **Create** in the Main Menu bar, then select **Create a Group**



In the **Create a Group** form that opens, do the following:

- Name your Group "Refuge Planning"
- Select "Private"
- Include this description of your Group "Group designed to assist with planning for new visitors station"
- Assign the following tags "refuges, USFWS"

**Group Name:**

**Group is:**  
 Public: group profile is visible to everyone and users can request to join this group  
 Private: group is visible only to members and new members must be added manually  
*Note: Group workspace pages are always restricted to group members*

**Describe this group and its objectives:**  
*This description is shown on the group profile page. Use this to describe the main objectives of the group, especially if the group is public and you wish to recruit additional members.*

**B I** |

**Workspace Welcome Message**  
*This message is shown on the group workspace home page. Use it to welcome group members to the workspace, or provide information about common group tasks.*

**B I** |

**Tags that describe this group:**  
(separate with commas)  
 My Tags | All Tags

**Group Thumbnail:**  
 No file chosen

When you are finished setting up your group, select **Submit**

From the browse page that opens, select **Members** to add individuals to your Group.



Next to **Add Member:** type in the name of the member you want to add, and choose “Member” for their Role, then click on the green check mark.

**Add member:**  Role:

### 3. Create a Gallery and add to Group Workspace

To create a new gallery, select **Create** in the Main Menu bar, then select **Create a Gallery**



In the **Create a Gallery** form that opens, do the following:

- Give your Gallery this title "USFWS Refuge Data"
- Choose Public for your gallery
- Include this description of your Gallery - "To organize USFWS Refuge data for planning purposes."
- Assign your Gallery the following tags: "refuges, USFWS"

### Title

USFWS Refuge Data

### Gallery is:

- Public: gallery is visible to all users  
 Private: gallery is visible only to authorized users

### Description:

Describe the main objectives of this gallery, and summarize the type of information that would be contained within it.

**B I** | [List Icons] | [Color Picker] | [Undo] | [Redo]

To organize USFWS Refuge data for planning purposes

### Gallery Credits

List the data providers or organizations that contributed to the contents of this gallery.

**B I** | [List Icons] | [Color Picker] | [Undo] | [Redo]

### Tags:

(separate with commas)

refuges, usfws My Tags | All Tags

### External Resources

External resources are resources that are served by other data warehouses. Currently, Data Basin supports including ScienceBase resources. When adding ScienceBase resources, the category name will appear as a browsable folder on the gallery page. When the user clicks on the folder, the given search URL will be processed, and the results shown. To add a ScienceBase resource, you will need a full search URL (ex. <https://www.sciencebase.gov/catalog/items?q=marine>).

[Add External Resource](#)

### Gallery Thumbnail:

Upload an image that helps express the theme of this gallery. If you do not upload an image, one will be drawn automatically from one of the datasets or maps within this gallery.

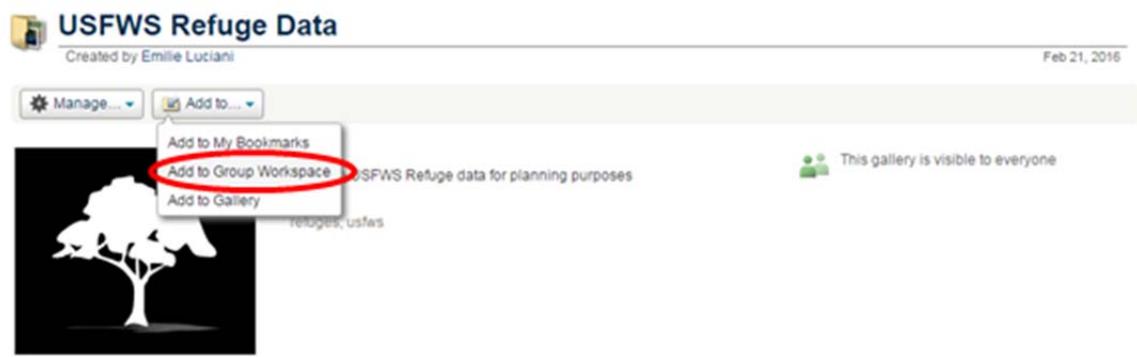
[Choose File](#) No file chosen [Upload Photo](#)

[CANCEL](#)

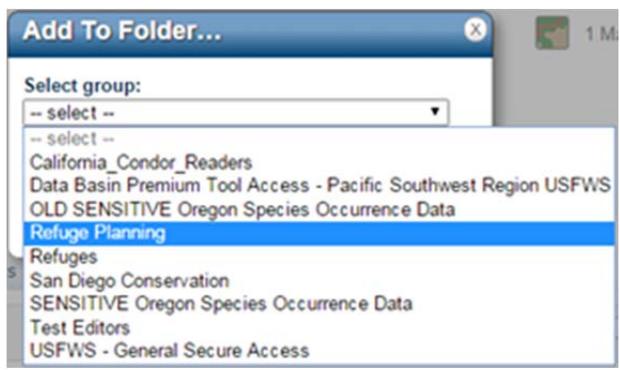
[SUBMIT](#)

When you are finished setting up your gallery, select **Submit**.

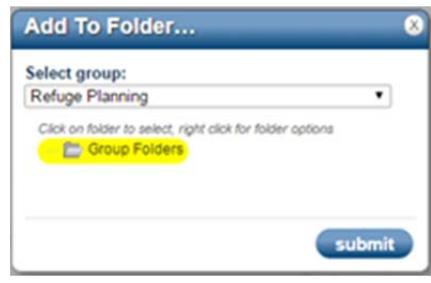
From the browse page that opens, click on **Add to...**, then select **Add to Group Workspace** to add your new Gallery to your new group's workspace.



In the **Add To Folder...** popup that appears, click on the down arrow next to **--select--**, then choose "Refuge Planning."

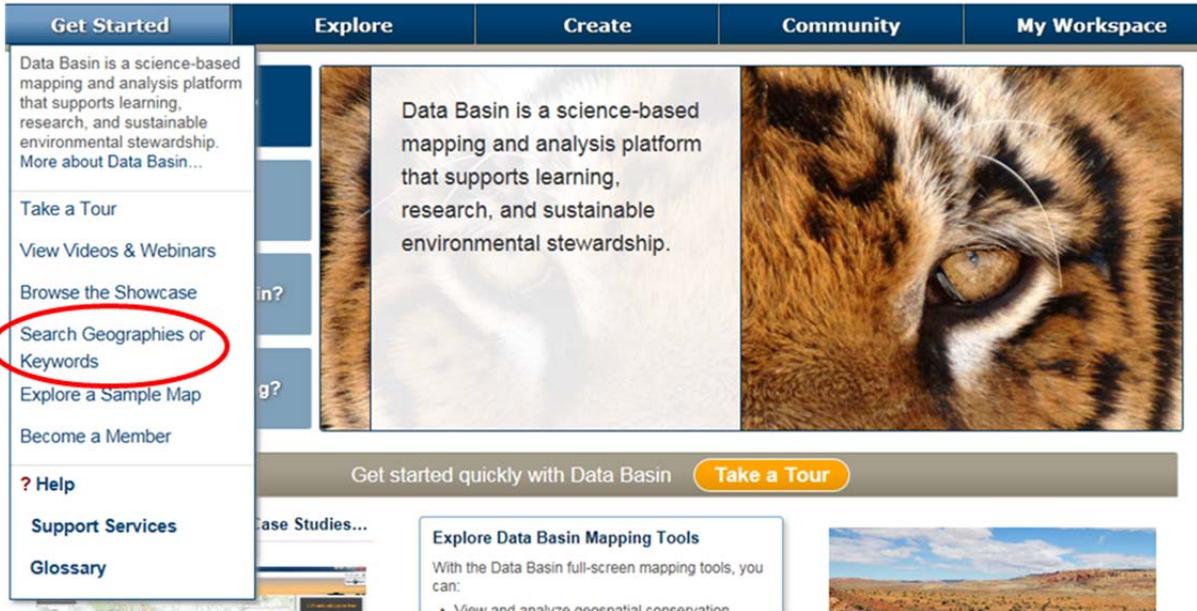


Click on **Group Folders** then **Submit** to include your gallery in the "Refuge Planning" Group Workspace.

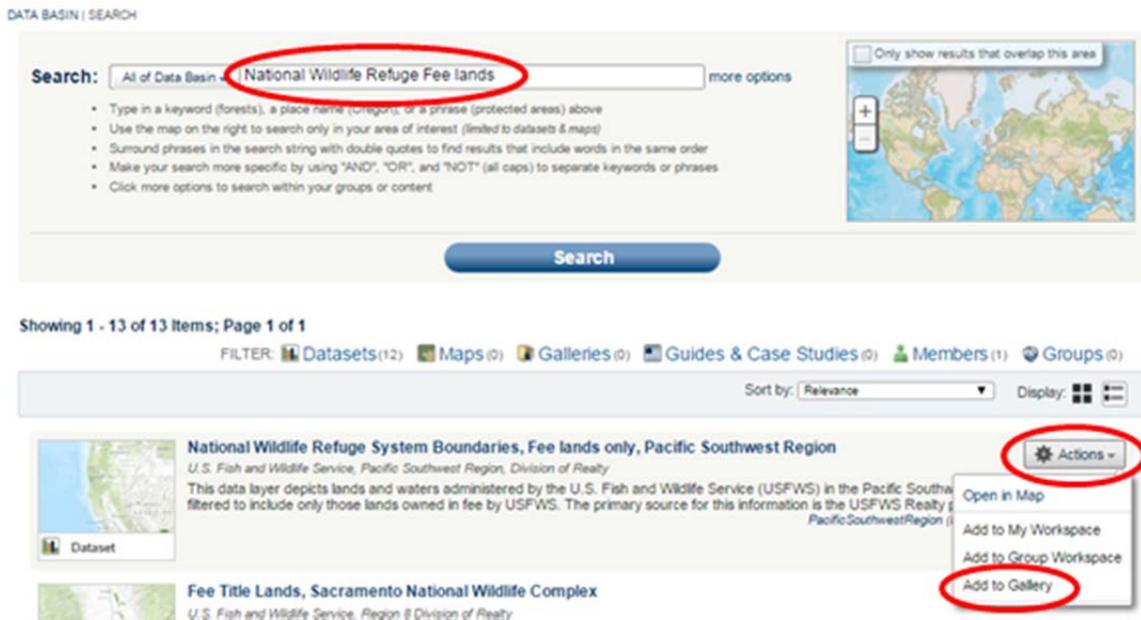


#### 4. Search for datasets and add to your Gallery

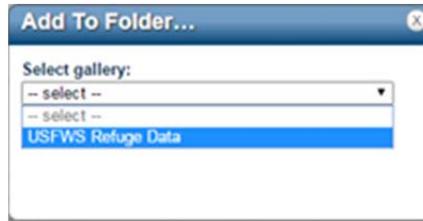
To search Data Basin, select **Get Started** in the Main Menu bar, then select **Search Geographies or Keywords**. Note that in the upper right hand corner of any Data Basin page is a search window that you can use to search for content by keyword



In the search window, type “National Wildlife Refuge Fee lands” then click on **Search**. The first dataset that appears is “National Wildlife Refuge System Boundaries, Fee lands only, Pacific Southwest Region.” Hover over the data set, then click on the **Actions** button that appears, then select **Add to Gallery**.



In the **Add To Folder...** popup that appears, click on the down arrow next to **--select--**, then choose “USFWS Refuge Data.”



Click on the folder named “Content” and click **submit**.



Next, type “Refuge Trails” in the search window. In the interactive **Geographic Search** window, zoom into San Diego, California and check the box next to **Only Show Results That Overlap This Area**. Then click on **Search**. Add the first dataset that appears to your gallery by hovering over the dataset, then clicking on the **Actions** button that appears, then select **Add to Gallery**. As above, add this dataset to the “USFWS Refuge Data” gallery.

DATA BASIN | SEARCH

Search: All of Data Basin  more options

- Type in a keyword (forests), a place name (Oregon), or a phrase (protected areas) above
- Use the map on the right to search only in your area of interest (limited to datasets & maps)
- Surround phrases in the search string with double quotes to find results that include words in the same order
- Make your search more specific by using "AND", "OR", and "NOT" (all caps) to separate keywords or phrases
- Click more options to search within your groups or content

Only show results that overlap this area

**Search**

Showing 1 - 7 of 7 Items; Page 1 of 1

FILTER: **Datasets** (7) Maps (0) Galleries (0) Guides & Case Studies (0) Members (0) Groups (0)

Sort by: Relevance Display: [Grid] [List]

**Trails National Wildlife Refuge System Pacific Southwest Region**  
U.S. Dept. of Transportation, Federal Highway Administration, Federal Lands Highway Division  
This dataset contains a baseline inventory and condition assessment of all non-motorized trails on U.S. Fish and Wildlife Service lands as part of the National Trails Inventory Program conducted by the US Dept. of Transportation, Federal Highway Administration, Federal Lands Highway Division.  
This ... PacificSouthwestRegion (Last modified January 30, 2015)

**Actions** ▾

Finally, type “species ranges” in the search window. Filter the results by clicking on **Datasets** next to the word **FILTER**:

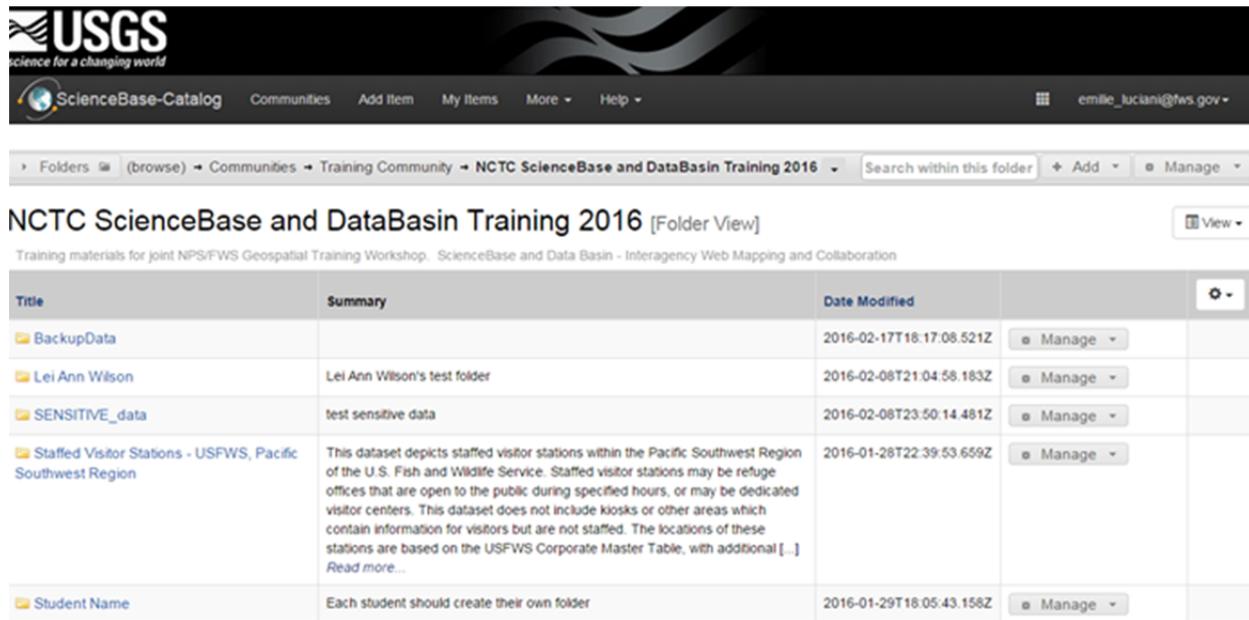


Showing 1 - 18 of 1,090 Items; Page 1 of 61  
 FILTER **Datasets (1,090)** Maps (35) Galleries (21) Guides & Case Studies (16) Members (42) Groups (3)

Find and hover over “FWS Species Range - Pacific Southwest Region 8” in the list, then click on the **Actions** button that appears and then select **Add to Gallery**. As with the fee lands dataset above, add this dataset to the “USFWS Refuge Data” gallery.

## 5. Import a dataset from ScienceBase and add to your Gallery

In ScienceBase, navigate to your folder within “NCTC ScienceBase and DataBasin Training 2016” (<https://www.sciencebase.gov/catalog/folder/56993d34e4b0fbd3f7fa7a13>).



Click to open the “Staffed Visitor Stations - USFWS, Pacific Southwest Region” item that you imported in the last exercise and copy its URL. See graphic below.

Staffed Visitor Stations - USFWS, Pacific Southwest Region

Dates  
 Publication Date : 2015-02-17  
 Time Period : 2015-02-17

Citation  
 U.S. Fish and Wildlife Service, 20150217, Staffed Visitor Stations - USFWS, Pacific Southwest Region: U.S. Fish and Wildlife Service: Sacramento, CA, <https://www.sciencebase.gov/catalog/item/editForm/new?parentId=56993d34e4b0fd3f7fa7a13>

Summary  
 This dataset depicts staffed visitor stations within the Pacific Southwest Region of the U.S. Fish and Wildlife Service. Staffed visitor stations may be refuge offices that are open to the public during specified hours, or may be dedicated visitor centers. This dataset does not include kiosks or other areas which contain information for visitors but are not staffed. The locations of these stations are based on the USFWS Corporate Master Table, with additional editing and updates based on the input of field and visitor services staff.

Child Items (2)

Back on the Data Basin home page, select **Create** in the Main Menu bar, then select **Import a Dataset**.

DATA BASIN

Search by keyword or location

Get Started Explore Create Community My Workspace

What is Data Basin?  
 What can I do?

Data Basin provides mapping tools that support research and environmental stewardship.

- Create a Map
- Import a Dataset**
- Create a Group
- Create a Gallery

Under **Import from Another Catalog**, paste the url into the box next to word ScienceBase. Check the box next to **I agree to the Data Basin Terms of Use**, then select **Submit**.

### Import a Dataset

Contact us if you have any questions about preparing or importing a dataset into Data Basin or check out our advanced processing and uploading support.

- Import ArcGIS Layer Package, NetCDF File, or Spreadsheet with Spatial Coordinates
- Import a Map Service
- Import from Another Catalog

Type: ScienceBase

- You can import an item from ScienceBase (other catalogs may be supported in the future). Tips for Importing from ScienceBase.

⚠ Metadata cannot be changed in Data Basin; this item must be well-described in the source catalog (title, description, and tags are required).

- The item must reference a valid map service.
- Custom styling, analysis, and other capabilities may be available in the future for map services hosted by ScienceBase.

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

**SUBMIT**

Once imported and the dataset's browse page is opened, click on **Add to...** and then select **Add to Gallery**.

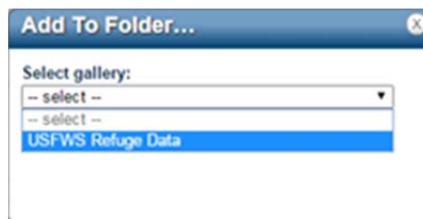
### Staffed Visitor Stations - USFWS, Pacific Southwest Region

Uploaded by Emilie Luciani

Jan 22, 2016 ( Last modified Jan 29, 2016)

**Description:**  
This dataset depicts staffed visitor stations within the Pacific Southwest Region of the U.S. Fish and Wildlife Service. Staffed visitor stations may be refuge offices that are open to the public during specified hours, or may be dedicated visitor centers.

In the **Add To Folder...** popup that appears, click on the down arrow next to **--select--**, then choose "USFWS Refuge Data."

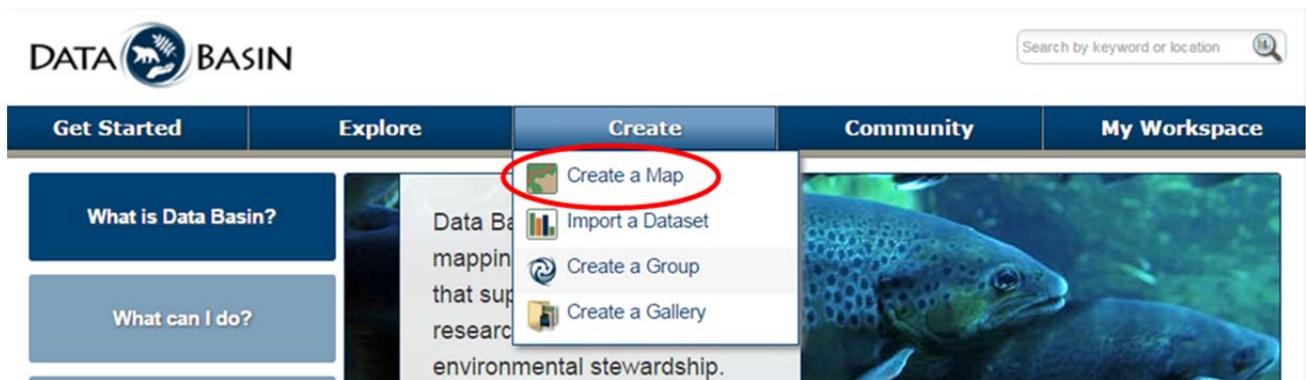


Then click on the folder named “Content” and click **submit**.

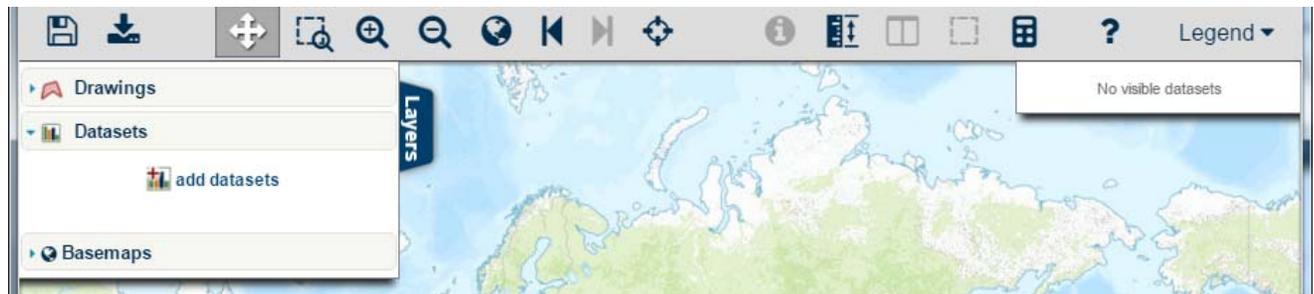


## 6. Create, save and export a map

To create a map, select **Create** in the Main Menu bar, then select **Create a Map**.



On the **Layers** tab, click on **add datasets**



Click on the **My Items** tab.

## Add Items...



You can select **datasets** from within galleries, groups, & maps. Single click an item to select, double-click to view contents.

**Search** Browse Items Recently Viewed My Bookmarks (1) My Groups (9) **My Items (2)**

All of Data Basin  more options  Only show results that overlap this area

Type in a keyword (forests), a place name (Oregon), or a phrase (protected areas) above  
Use the map on the right to search only in your area of interest (limited to datasets & maps)  
Surround phrases in the search string with double quotes to find results that include words in the same order  
Make your search more specific by using "AND", "OR", and "NOT" (all caps) to separate keywords or phrases  
Click more options to search within your groups or content



Then select **My Galleries**

## Add Items...



You can select **datasets** from within galleries, groups, & maps. Single click an item to select, double-click to view contents.

**Search** Browse Items Recently Viewed My Bookmarks (1) My Groups (9) **My Items (3)**

My Datasets My Maps **My Galleries**

Hover over the "USFWS Refuge Data" thumbnail, then click on the **View Contents** button.

filter items by name / title  Sort by: Creation Date (newest to oldest)  Display:



**USFWS Refuge Data**

To organize USFWS Refuge data for planning purposes  
*Emilie Luciani (February 21, 2016)*

Click on each dataset in your gallery to select it, and then click on **add items**. This will add those items to your map.

## Add Items...



You can select **datasets** from within galleries, groups, & maps. Single click an item to select, double-click to view contents.

Search Browse Items Recently Viewed My Bookmarks (1) My Groups (9) **My Items (3)**

<< BACK | USFWS REFUGE DATA

Dataset  
FWS Species Range - Pacific Southwest Region 8

Dataset  
National Wildlife Refuge System Boundaries, Fee lands only, Pacific

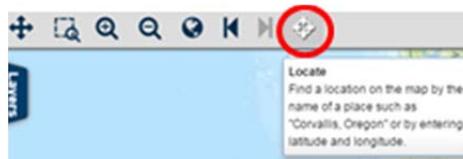
Dataset  
Trails on National Wildlife Refuge System Lands, USFWS, Pacific

Dataset  
Staffed Visitor Stations - USFWS, Pacific Southwest Region

**Selected items:** (-) FWS Species Range - Pacific Southwest Region 8 (-) National Wildlife Refuge System Boundaries, Fee lands only, Pacific ... (-) Trails on National Wildlife Refuge System Lands, USFWS, Pacific ... (-) Staffed Visitor Stations - USFWS, Pacific Southwest Region

cancel **add items**

Back in the map, on the toolbar click on the locate button.



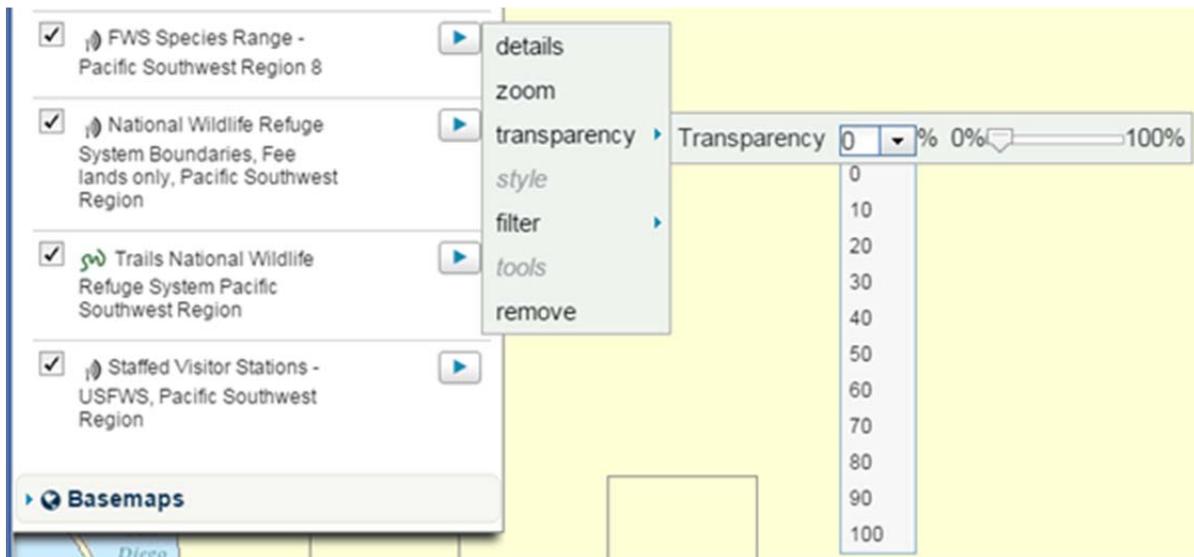
Under **Enter Address** type “**Jamul, CA**” then click **submit**. Select the first result that appears.



On the new popup, click on the **Zoom** button. Keep zooming until the refuge is visible.



Click on the arrow next to the “FWS Species Range” dataset, then select **Transparency** and either use the drop down to select a percentage, or slide the lever to change the transparency.



Next, click on the arrow next to “FWS Species Range” again, then select **Filter**, then select **Create Filter**. In the filter popup, select “**comname**” equal to “**San Diego fairy shrimp**”. Then click **submit**.



Click on the **Save** icon in the toolbar. In the Save Map As... popup that appears, do the following:

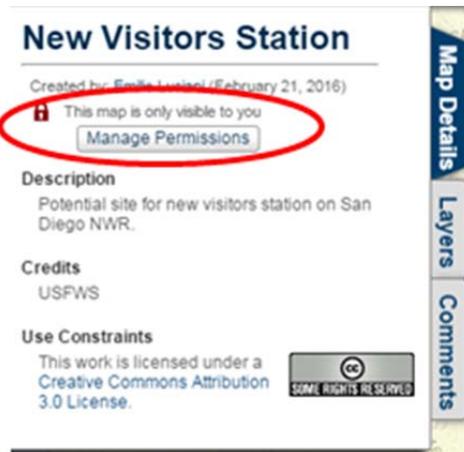
- make the map private
- Give it this title “New Visitors Station”
- Type USFWS next to **Credits**:

- Enter this under **Description**: “Potential site for new visitors station on San Diego NWR”
- Assign your map the following tags: refuge, usfws, visitors center
- Then click **Submit**

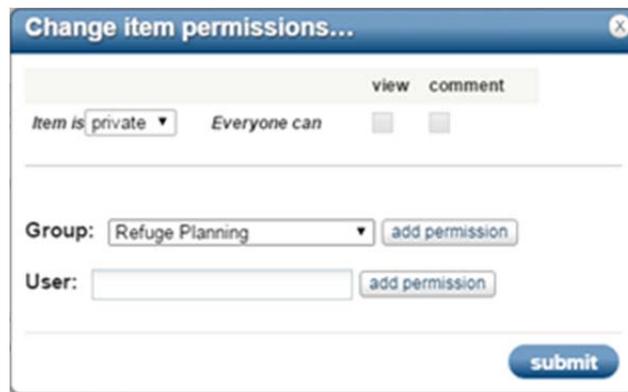
Select the **Comments** tab, and click on **Add Comment**. Click on **Add Markers**, and at the intersection of the trail and SR 125 click to add a marker. In the popup that appear, under **Comment**: type “**Possible New Visitors Station**”, then click **Add Comment**.



Click on **Save** again. Then click on the **Map Details** tab. You can see that the map is only visible to you.



Click on **Manage Permissions** button. In the popup that appears, click on the down arrow next to **Group**, select “Refuge Planning” and then click on **add permission**.



The Refuge Planning group is now added at the top. Check the box under comment and next to Refuge Planning.



Now all members of your group will be able to view and make comments on the map you just created.