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.

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

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”
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.

Finally, type “species ranges” in the search window. Filter the results by clicking on Datasets next to the word FILTER:
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](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.
Back on the Data Basin home page, select **Create** in the Main Menu bar, then select **Import a Dataset**.

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**.
Once imported and the dataset’s browse page is opened, click on Add to... and 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.”
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.
Then select My Galleries

Hover over the “USFWS Refuge Data” thumbnail, then click on the View Contents button.

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