

Exercise 5: Explore species and trends with Data Catalog and Observations Map

The data catalog is a way of discovering what is in the Avian Knowledge Network.

1. Open **Data Catalog** (https://data.pointblue.org/apps/data_catalog/)
2. Let's start by getting oriented to the Data Catalog:
 - a. Click **Datasets** at the top of the screen. Each project database has a data catalog entry.
 - b. Click **Groups** at the top of the screen. These groups / organizations have tagged a collection of Datasets to them.
 - c. Note the giant **Search** bar. You can search for Datasets by a variety of criteria. You can use this in conjunction with the **Map** (Note the Map will not appear until you have searched for something) -- click the pencil to zoom/pan on the map and draw a rectangle to search.
 - i. To **zoom in / out**, click on the Plus/Minus icons in the upper left corner. **Double click** the mouse to zoom, as well.
 - ii. To **pan**, make sure your cursor looks like a hand, and click-hold the mouse and drag. If your mouse is a cross sign and you want to pan, just click anywhere in the map to reset so you can pan.
 - iii. To **search** by a rectangle, click the pencil icon in the upper right corner of the map (the cursor becomes a cross). Click and hold the mouse and drag to create the box. To change it, simply click the pencil icon and draw again. If you are happy with your rectangle, click the Apply button in the bottom right corner below the map.
 - d. In the search bar, type "KBO" and hit Enter. Click on the first in the list of results (KBO Aquatic Monitoring (KBOAQUATIC)). This example is fully filled out, including citations.
3. Open **Observations Map** (<https://avianknowledge.net/index.php/observations-map/>)
4. Let's start by getting oriented to the Observations Map:
 - a. To **zoom in / out**, click on the Plus/Minus icons in the upper left corner. **Double click** the mouse to zoom, as well.
 - b. To **pan**, click-hold the mouse and drag.
 - c. "Search by address" lets you zoom into a specific area by name. Type in a place name and click Go.
 - d. **Choose a species** - the tool requires you to pick a specific species first. Pick one from the dropdown list, and you will see the Data Collections turn on.
 - e. **Choose a date range** - use this if you want to further filter the search to be only within a range of months (say the breeding season), or leave as is to give back all data.
 - f. **Choose a data collection** - choose from the AKN (all from our data warehouses), eBird, and BBS collections. Dots will appear in colors showing where observations were made

