



# www.baydeltaalive.com Tutorials

## CREATE AN INTERACTIVE MAP

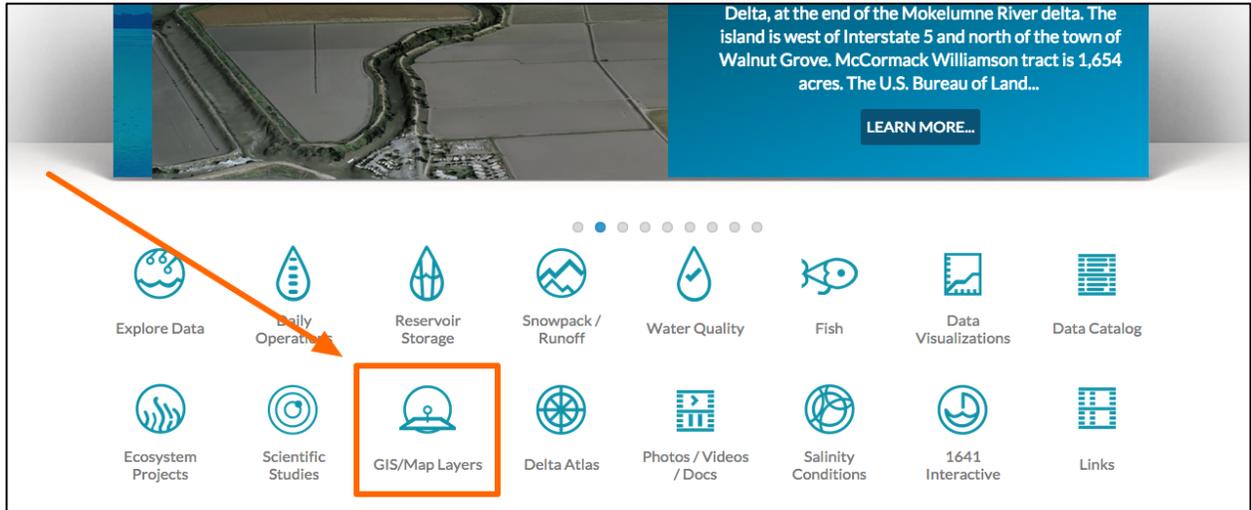
In this tutorial, you will learn how to:

- Explore and turn on GIS layers using the map interface
- Manage the layers
- Save the map
- Organize and edit the map information
- Find the new interactive map in the map library
- Share the map with colleagues

First always be sure you are logged in, using the login or “Join BDL Community” buttons at the top of the screen.

The screenshot shows the top navigation bar of the Bay-Delta Live website. It features the BAY-DELTA LIVE logo on the left, followed by a search bar and three buttons: LOGIN, JOIN BDL COMMUNITY, and HELP. An orange arrow points to the LOGIN and JOIN BDL COMMUNITY buttons. Below the navigation bar is a featured article titled "Cache Slough Region" with a description and a "LEARN MORE..." button. At the bottom is a horizontal menu with icons and labels for Explore Data, Daily Operations, Reservoir Storage, Snowpack / Runoff, Water Quality, Fish, Data Visualizations, and Data Catalog.

Once you are logged in, click on “GIS/Map Layers” on the homepage.



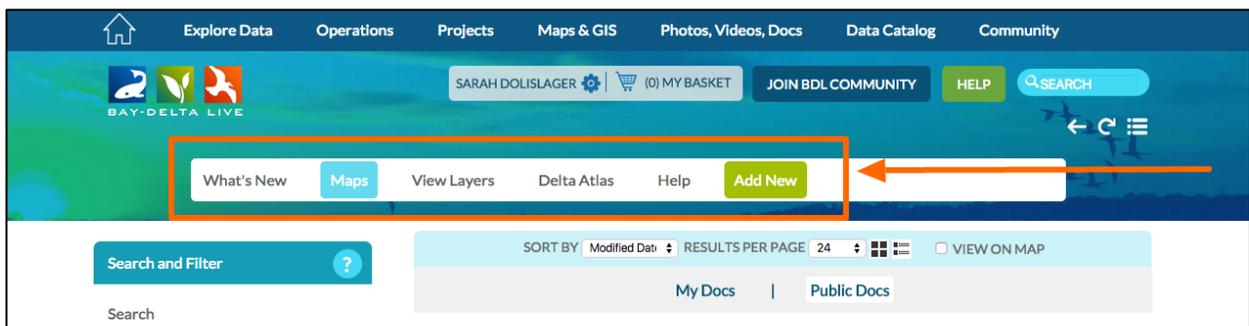
The Maps & GIS category gives you web-based access to an extensive library of GIS layers throughout the state of California.

These data are provided by:

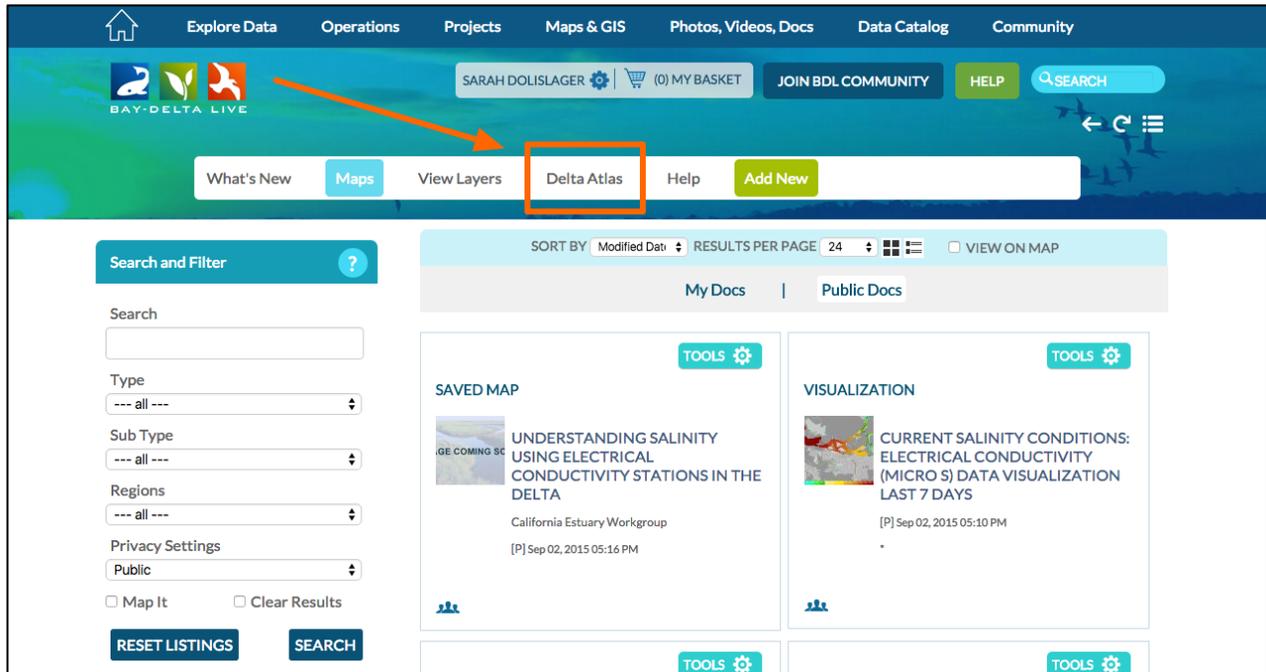


### Explore and Turn on GIS Layers Using the Map Interface:

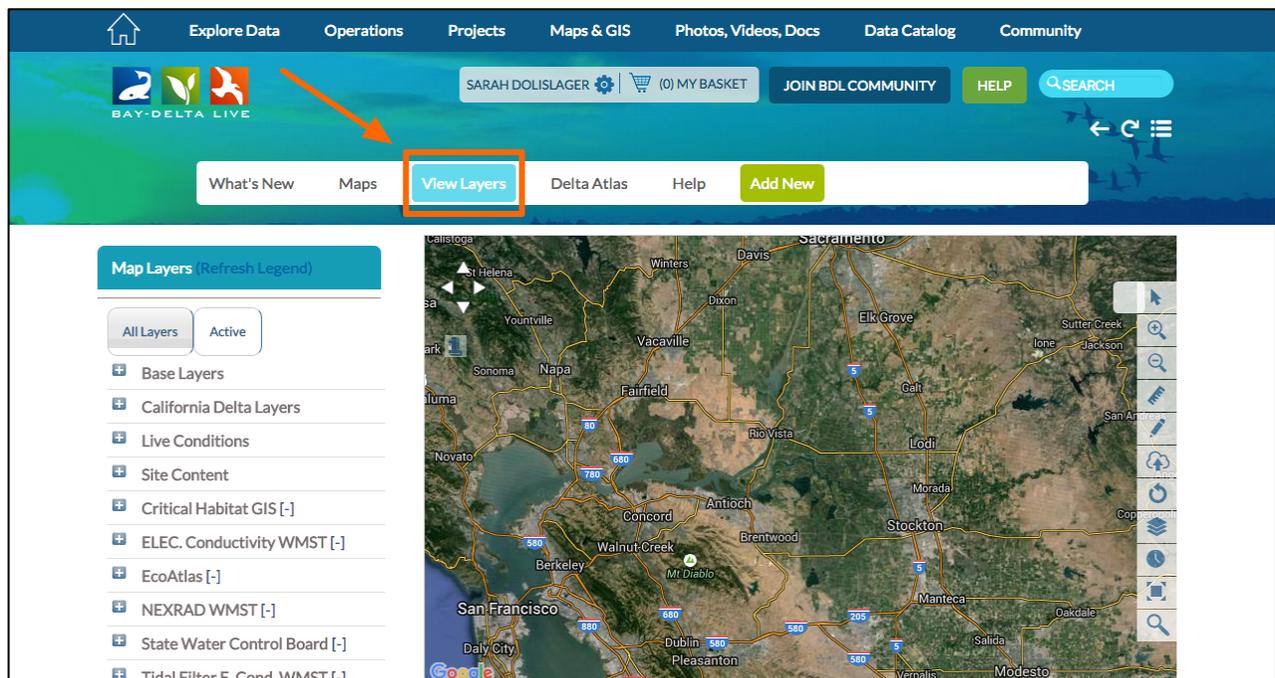
You have a couple of options in the sub-navigation regarding layers.



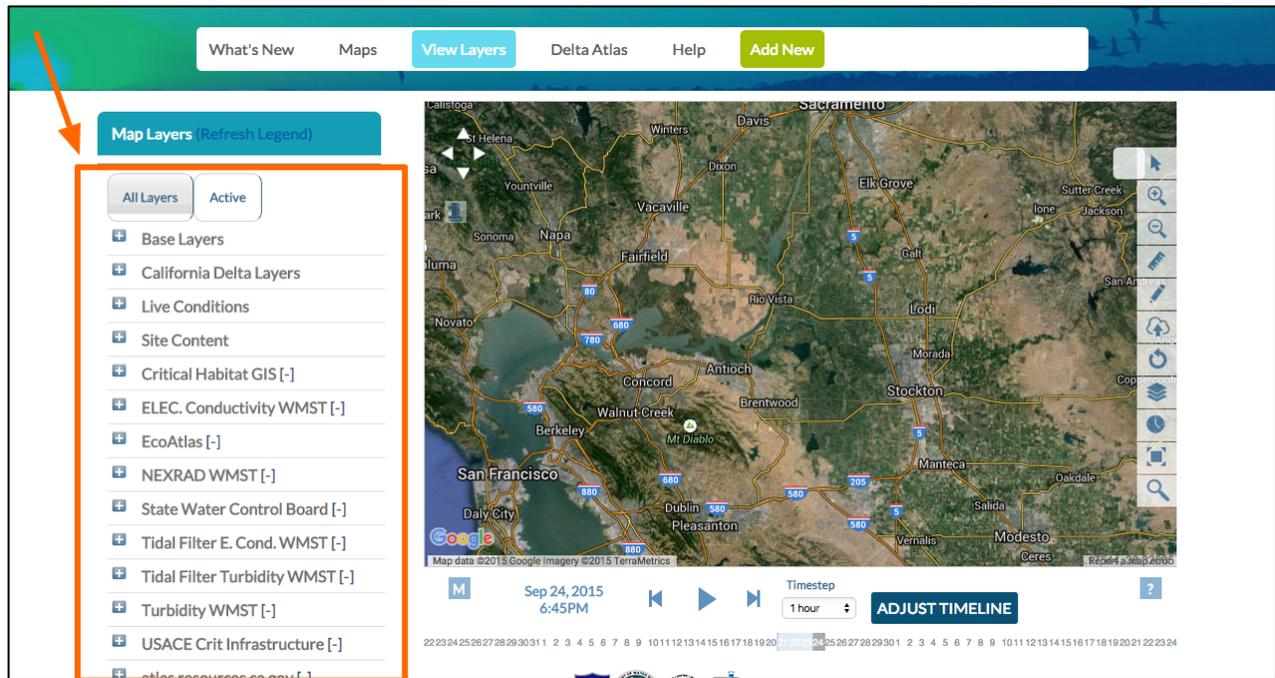
If you want to use default layers produced by The Resources Agency, choose “Delta Atlas” in the sub-navigation.



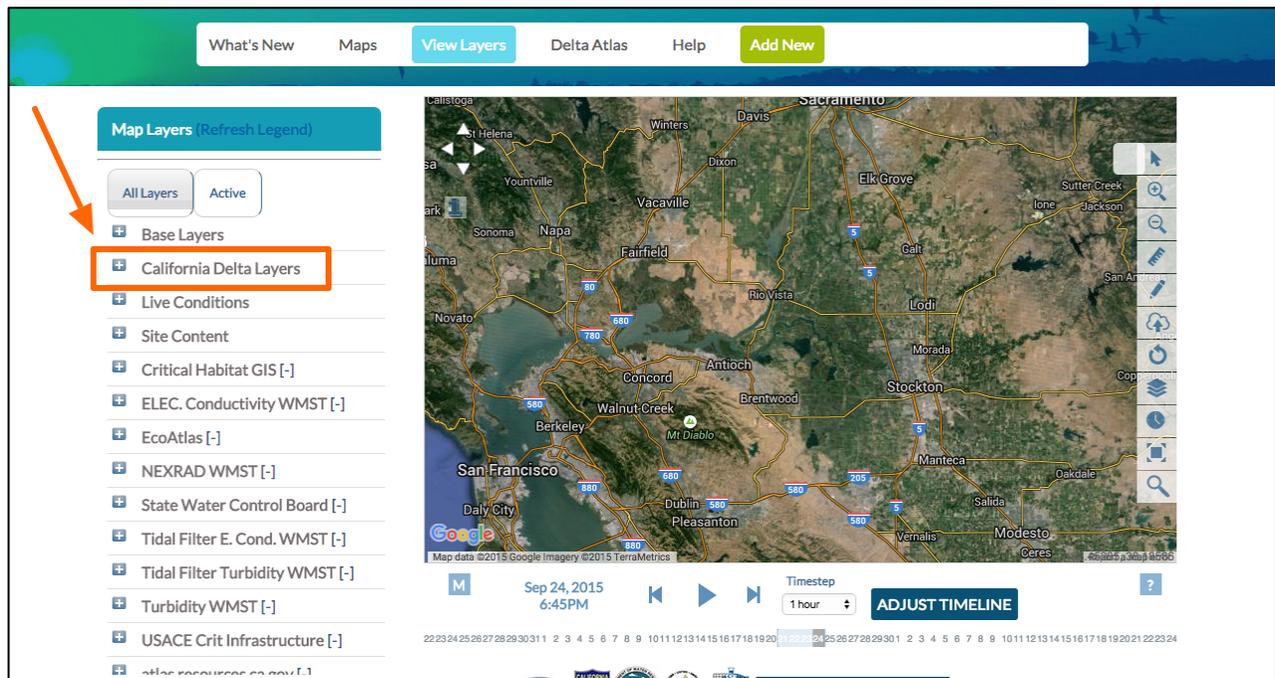
To access an extensive layer list, choose “View Layers” in the sub-navigation. This option gives you access to more than 200 California GIS data layers. For this tutorial, we’ll work in the, “View Layers” section.



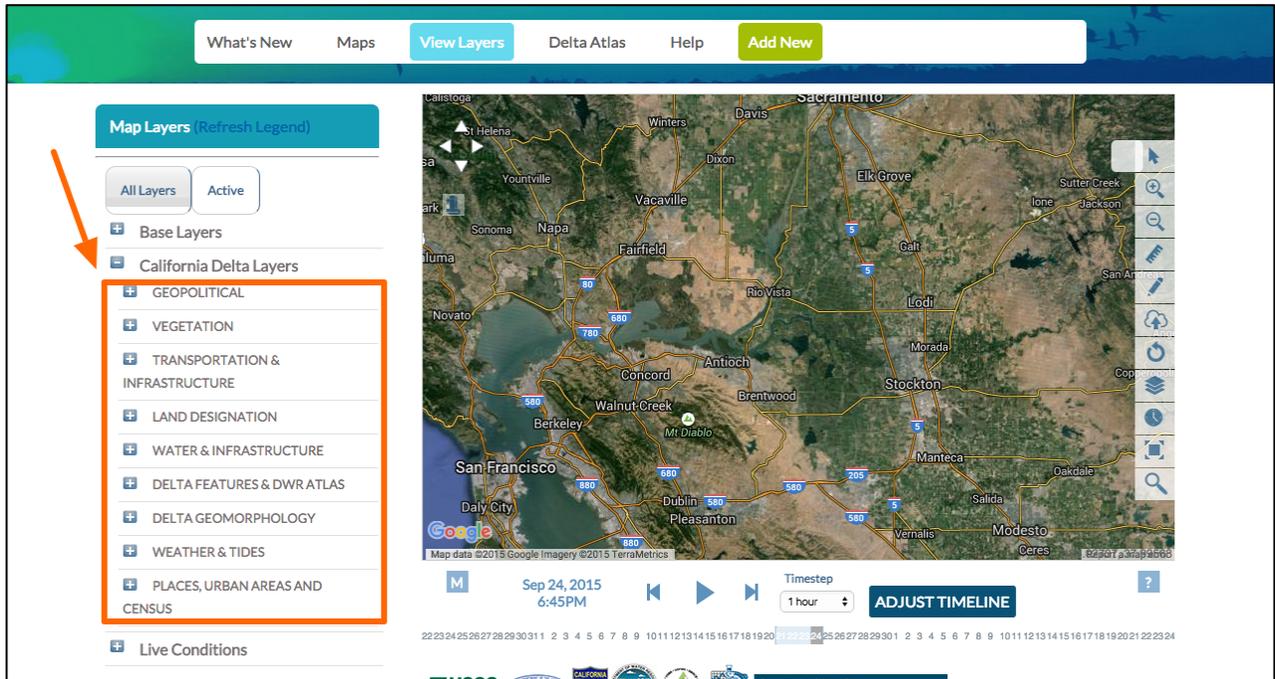
First, you will see various folders categorized by layer groups.



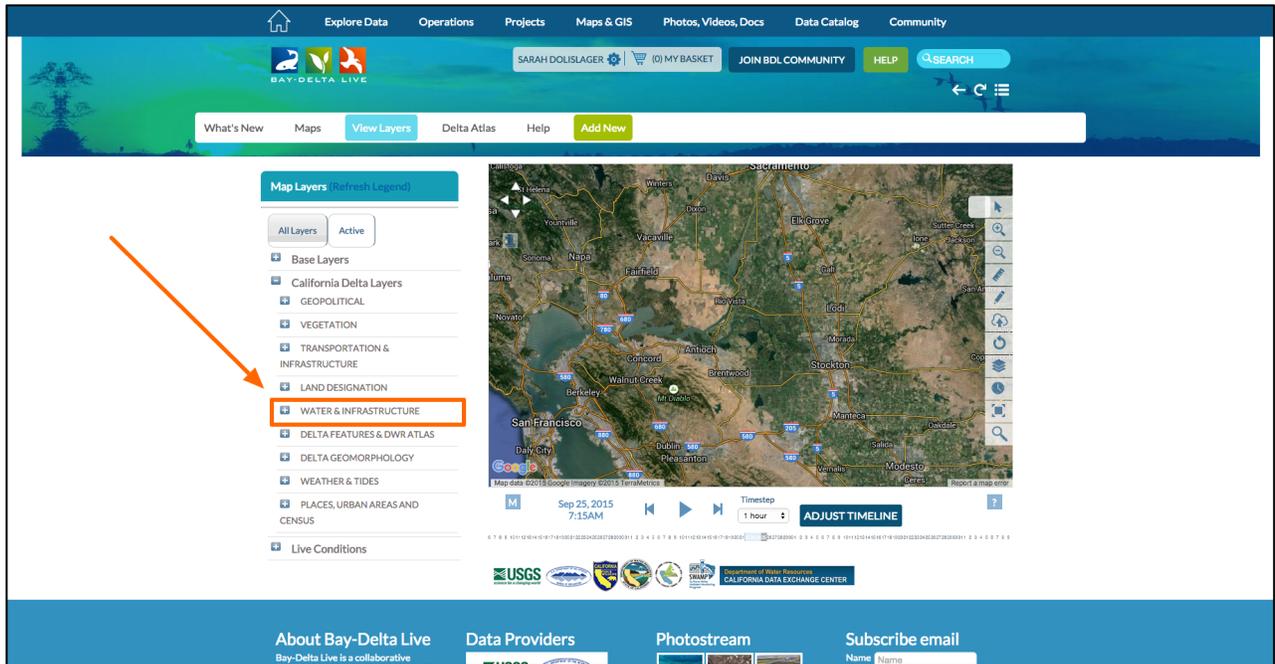
Open the "California Delta Layers" folder by clicking on the plus sign on the left-hand side.



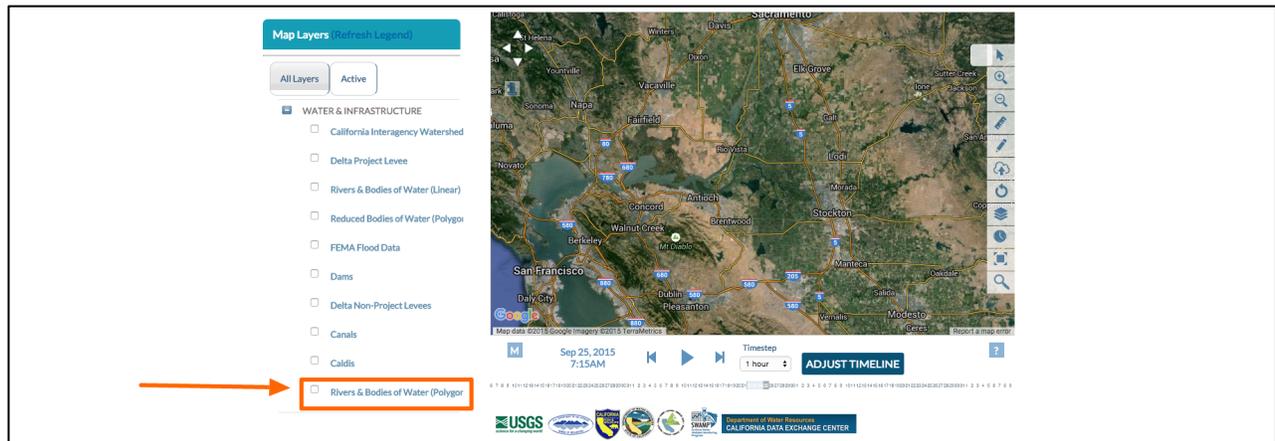
Here you see a list of GIS files that fall under, "California Delta Layers."  
You can explore the types of GIS files by category: geopolitical, vegetation, land, water and infrastructure and more.



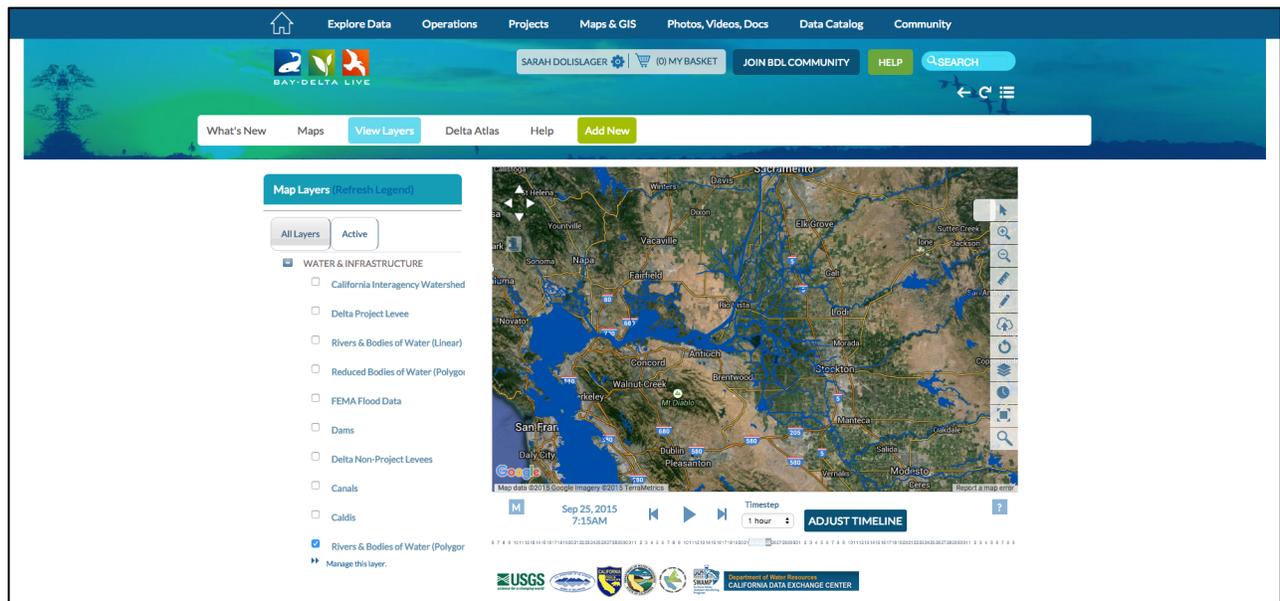
Then, choose the Water and Infrastructure sub-folder by clicking on the plus sign.



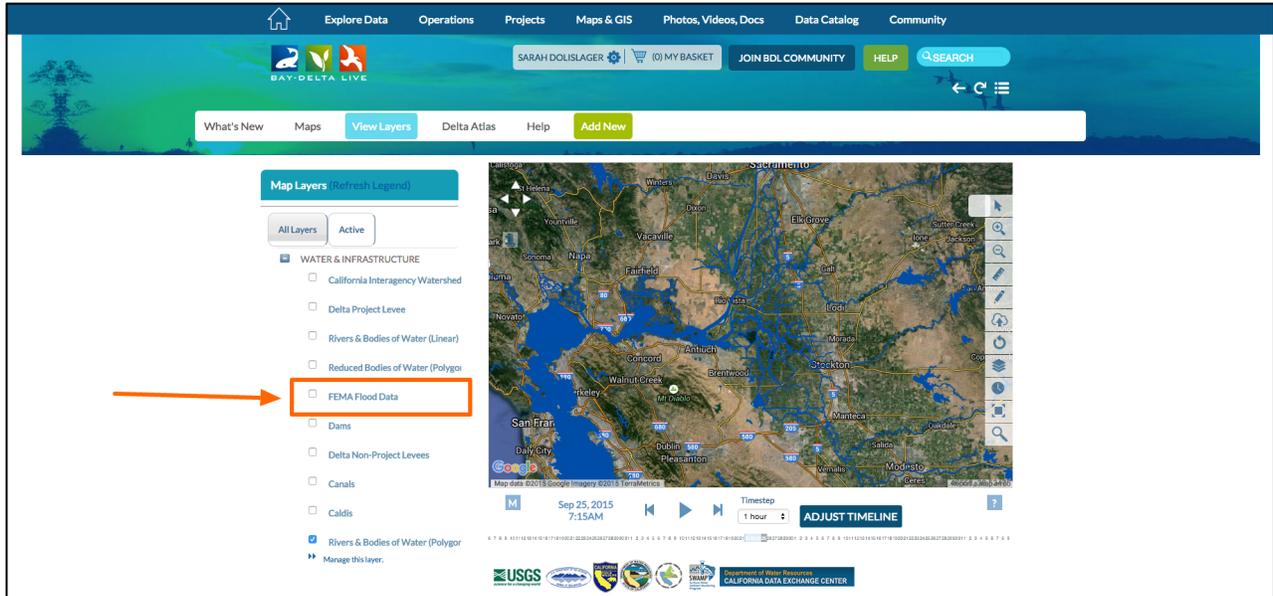
You can choose any layer by selecting the check-box next to the layer title. For this example, we'll turn on the Rivers and Bodies of Water (Polygon) at the bottom of the list. Check the box.



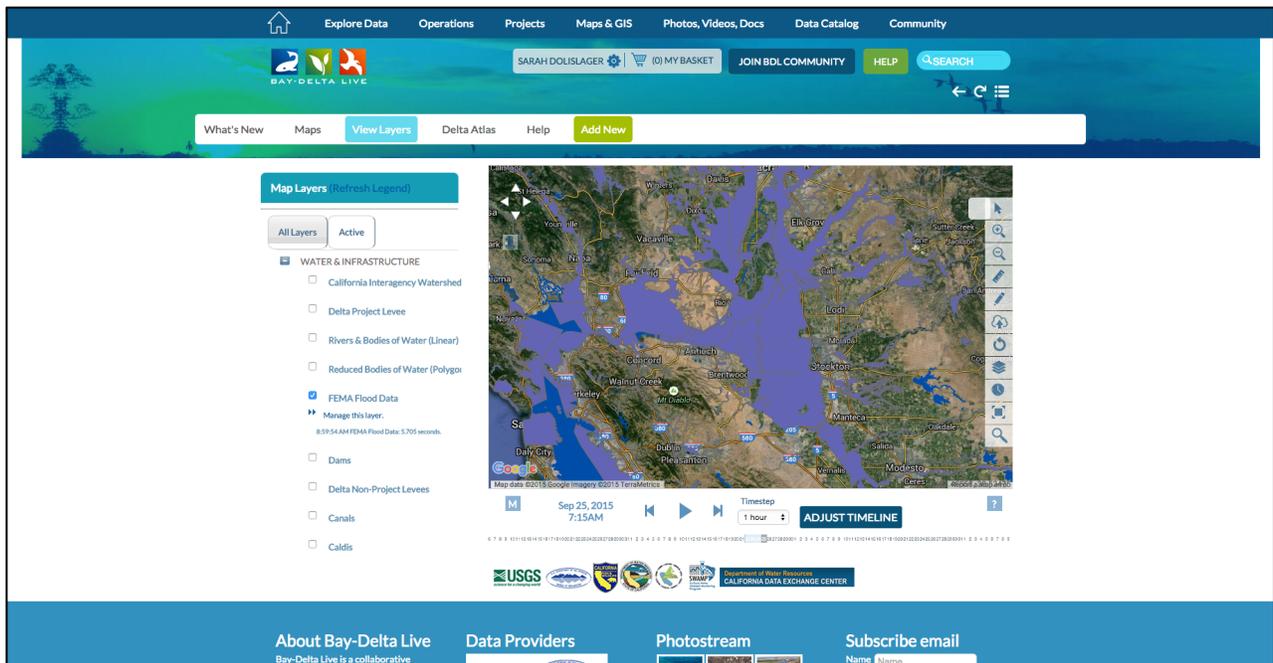
This creates one layer on the map.



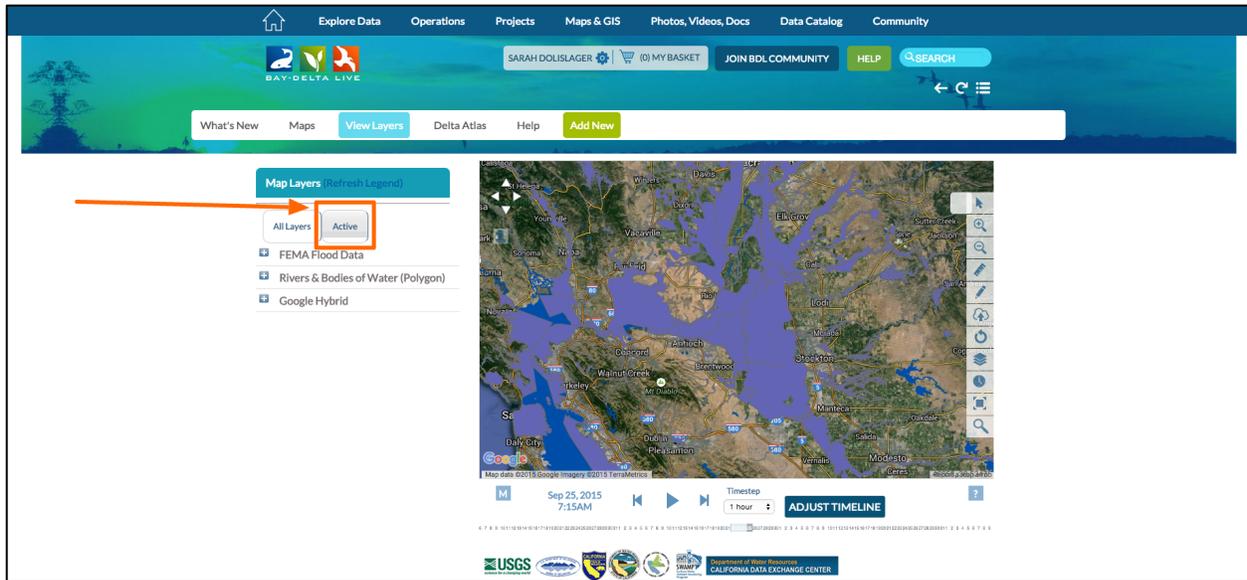
Next, let's add the FEMA flood data by checking that box.



This creates a second layer on the map.

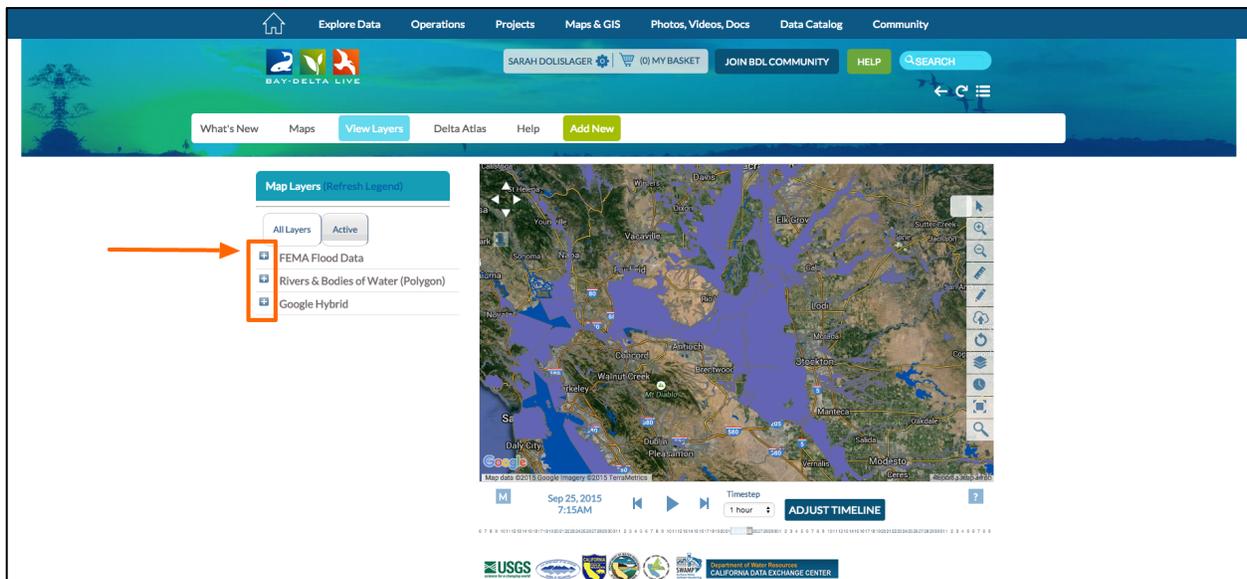


You can add as many layers as you need to tell your data story. Once you're done adding all your desired layers, you can manage your map by clicking on the "active" tab.

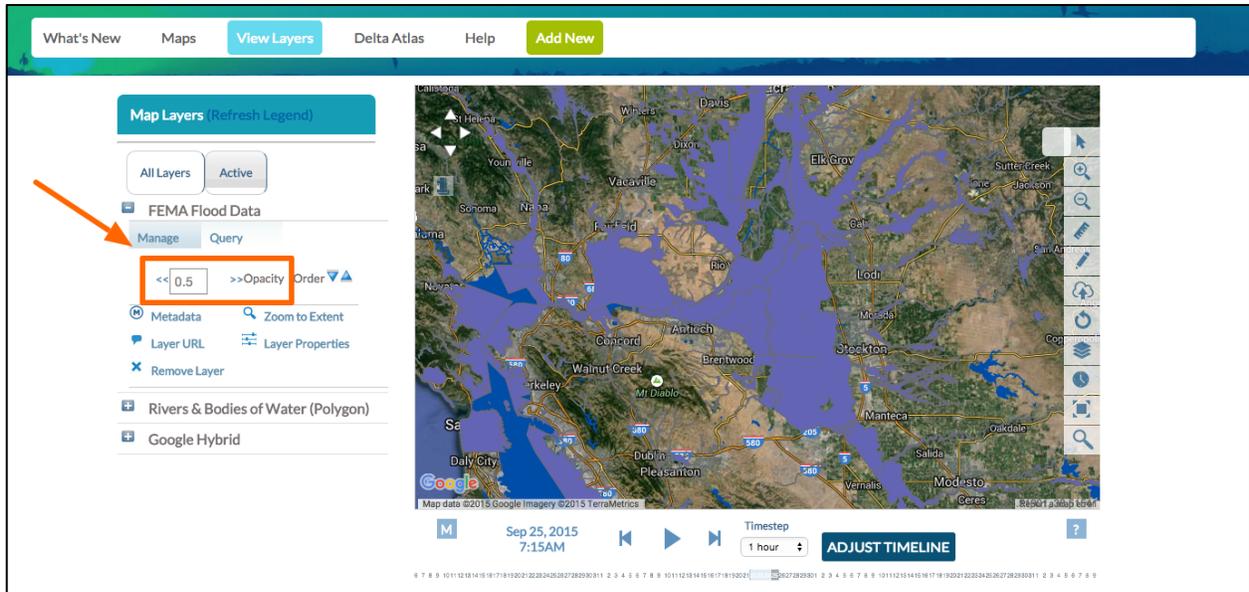


## Order the Layers and Manage the Layer Options:

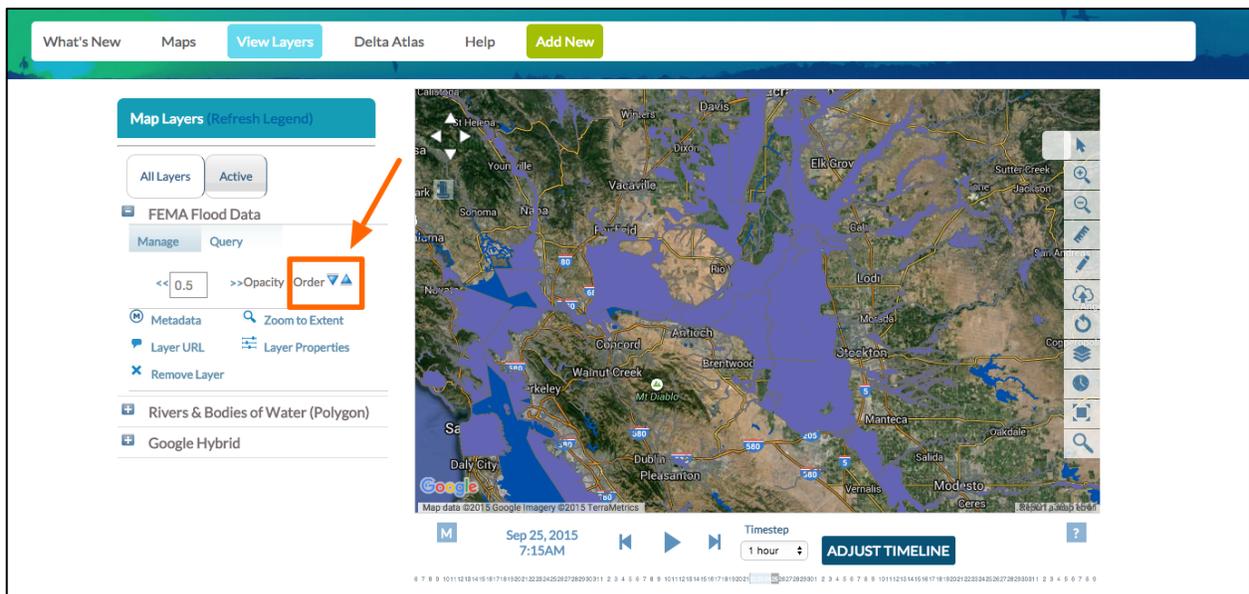
Here you can open the layer options using the "+" sign. This gives you access to map management tools, which allow you to adjust the ordering and opacity of the layers.



By managing the layer opacity, you can make a layer more or less visible on the map. This tool is useful for showing multiple layers at once.



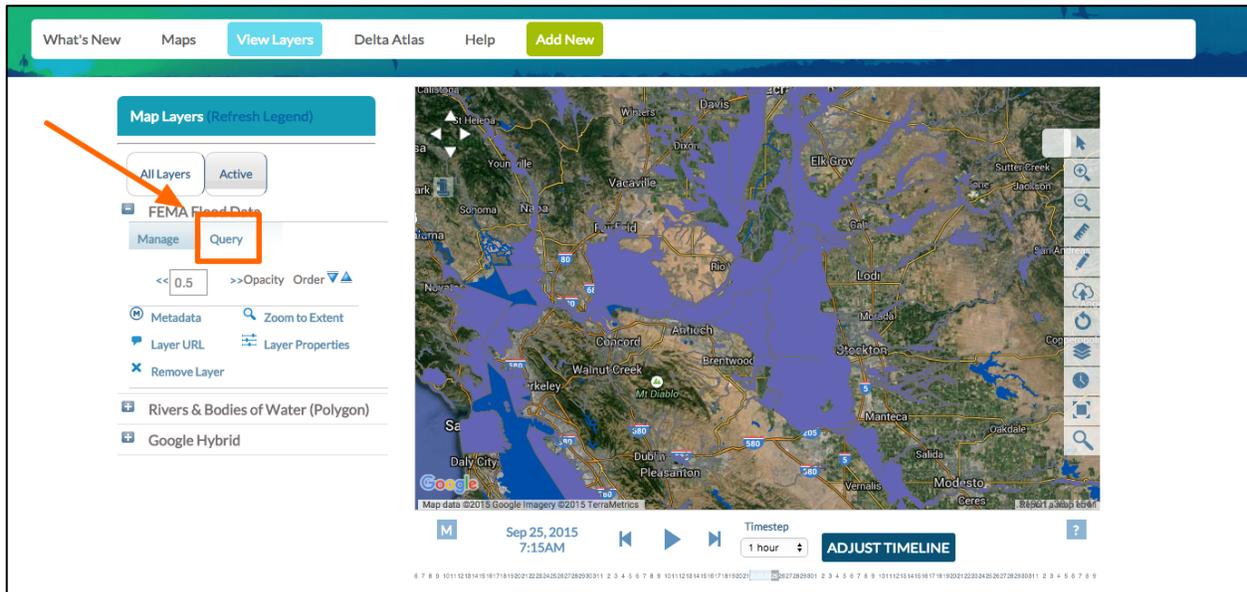
By managing the order layer, you can change the order in which the layers are visible on the map.



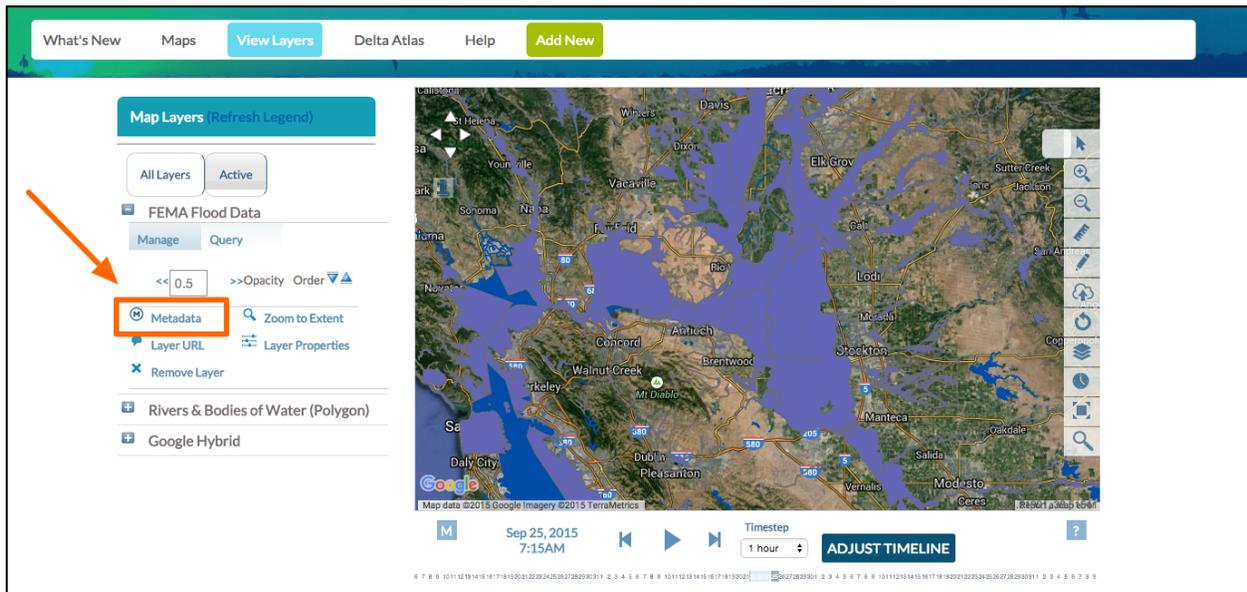
You can also query an active layer, which allows you to click on a layer and retrieve the associated metadata.

Please note that you can only query the top layer.

Remember, you can move any layer to the top by using the order function.



You can view the layer metadata here, which will give you the metadata that is associated with the GIS file.



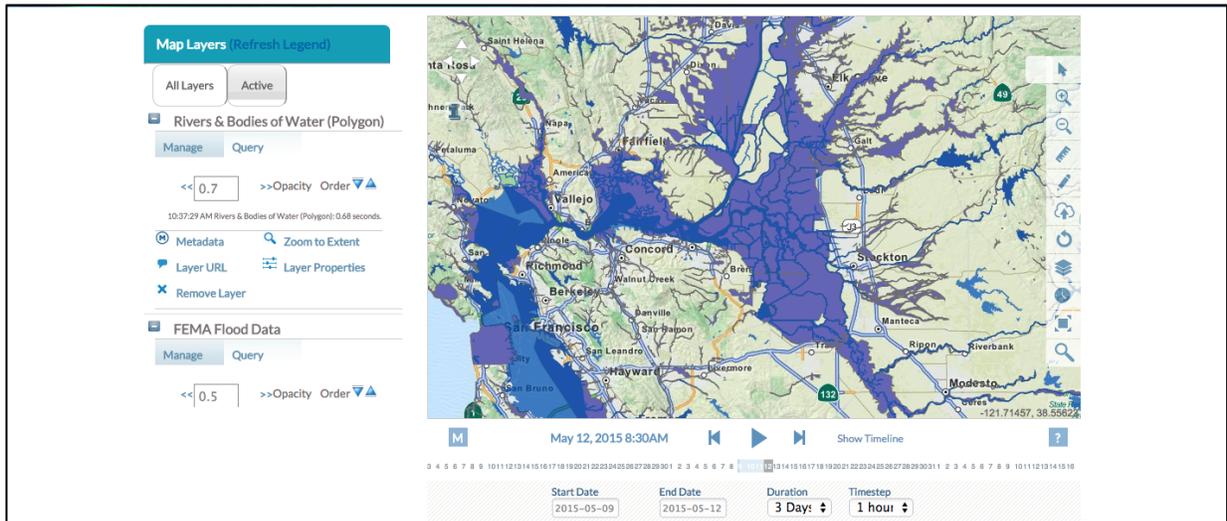
Let's work with some of these options to see them in action.

First, change the order by clicking the "down" arrow on the FEMA flood data layer.

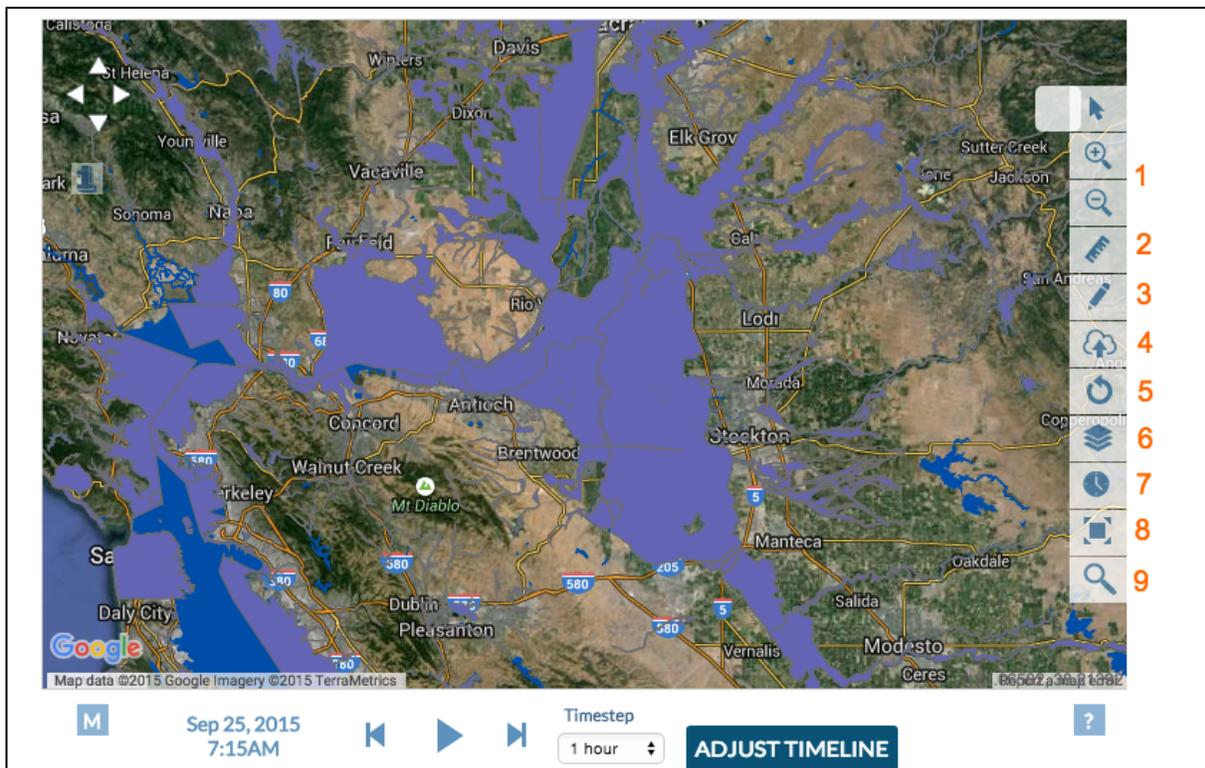
Then increase the opacity of the Body of Water layer.

This allows you to see how the rivers and bodies of water correlate with the FEMA data.

Notice the changes in the map.



The web map application has a set of tools for an enhanced user experience.

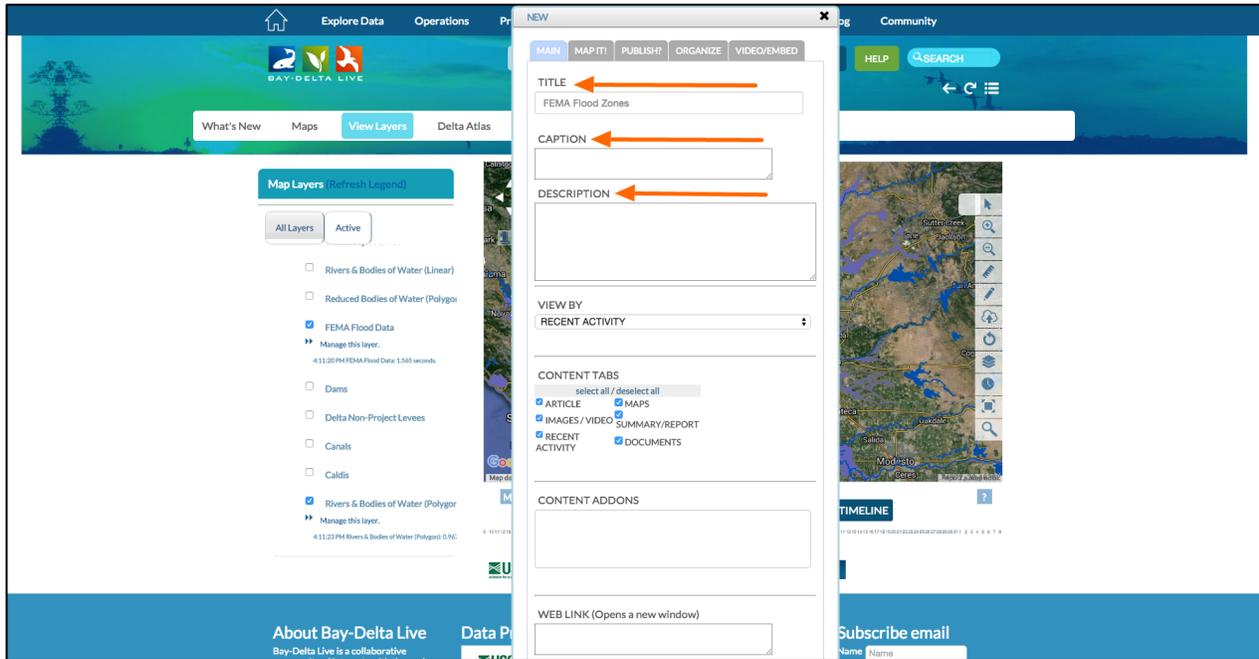


The options include:



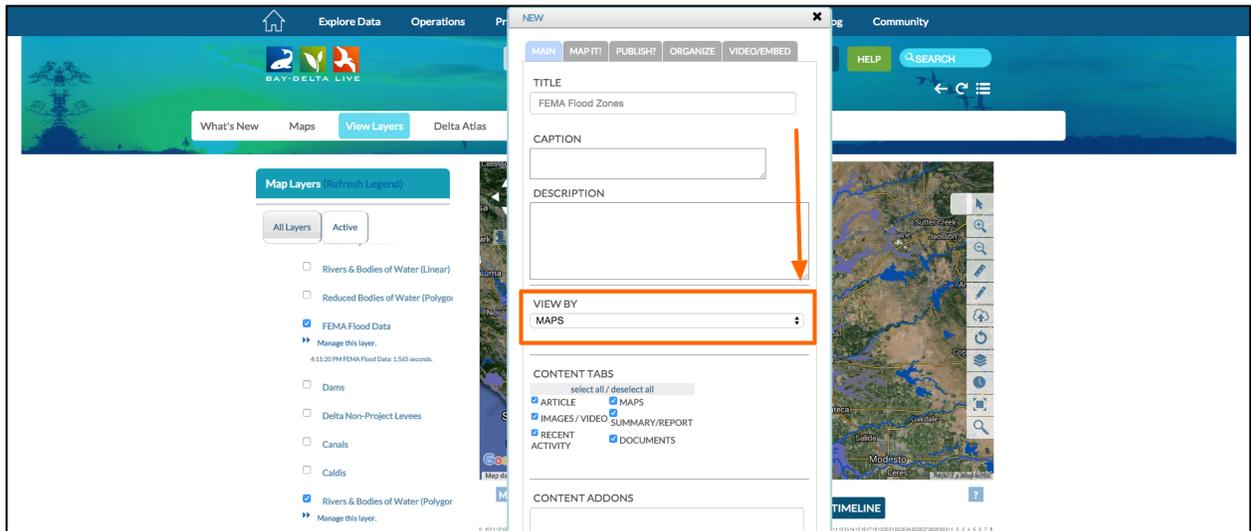
## Organize and Edit the Map Information:

You will be prompted to fill out the data for your saved map or visualization, such as the title, caption, description, and how you want to publish it. We'll title this one, "FEMA Flood Zones."

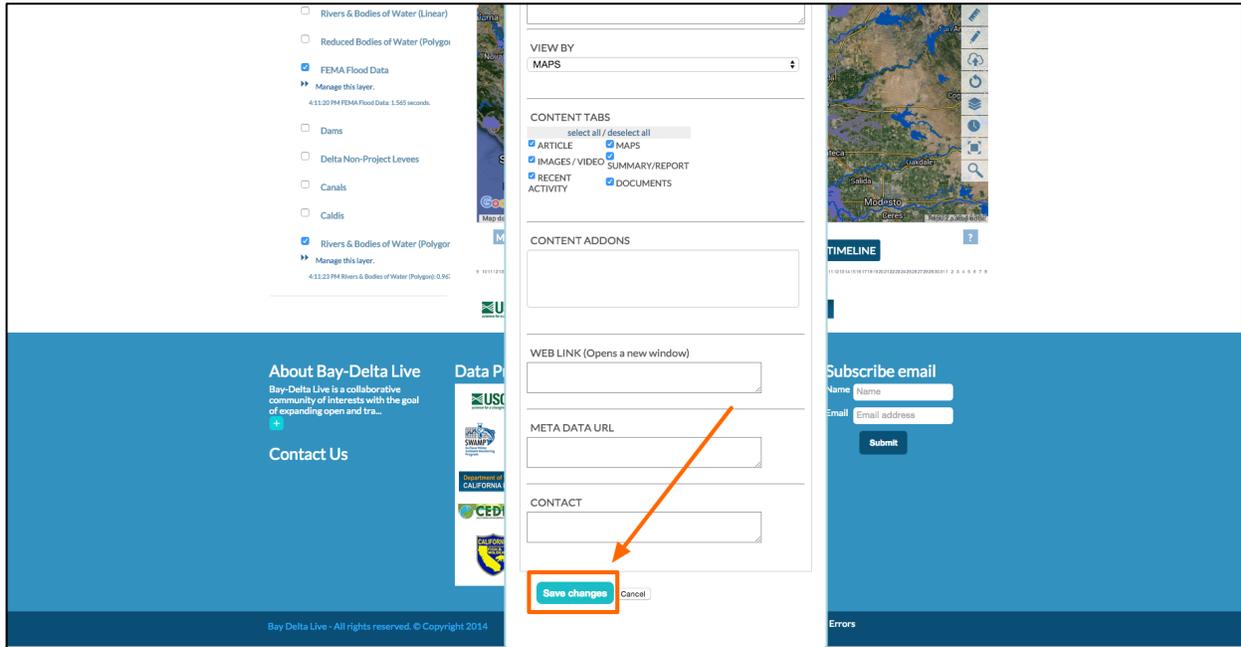


Next, go down to the "View By" drop-down menu.

These options determine the default view. Essentially, what you choose from this drop-down menu determines how the map will show up when you go to look at it later. Choose, "Map."

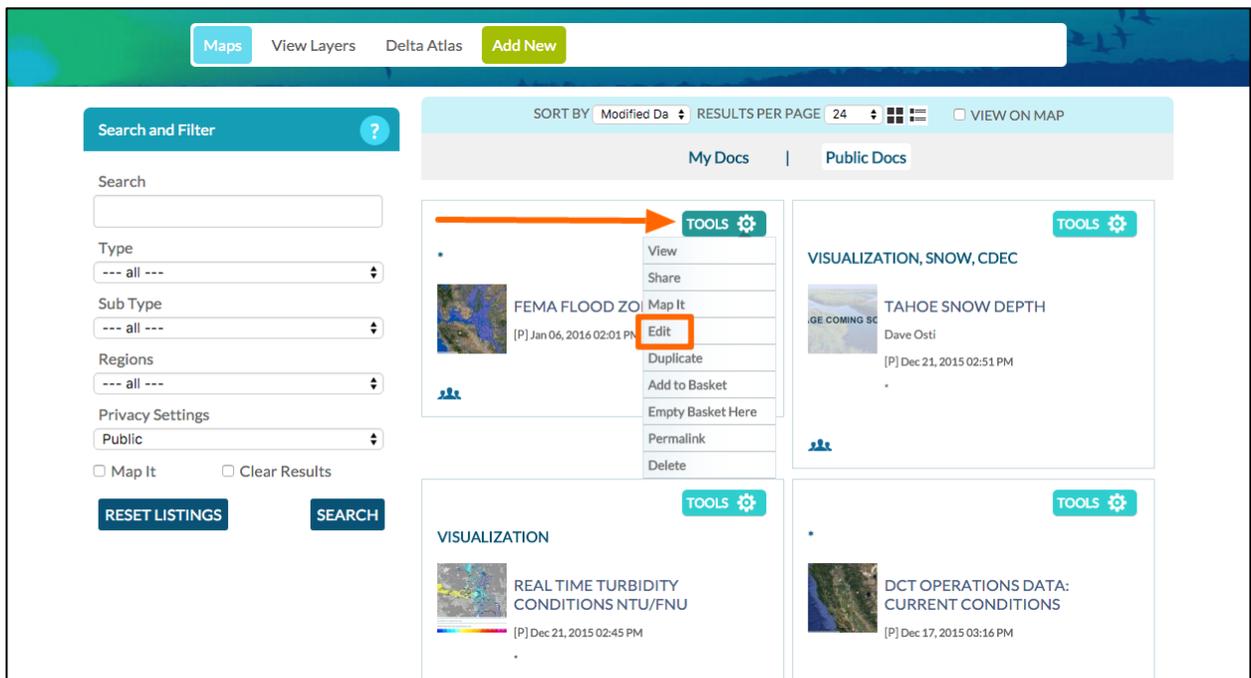


Then scroll down and click “save changes.”



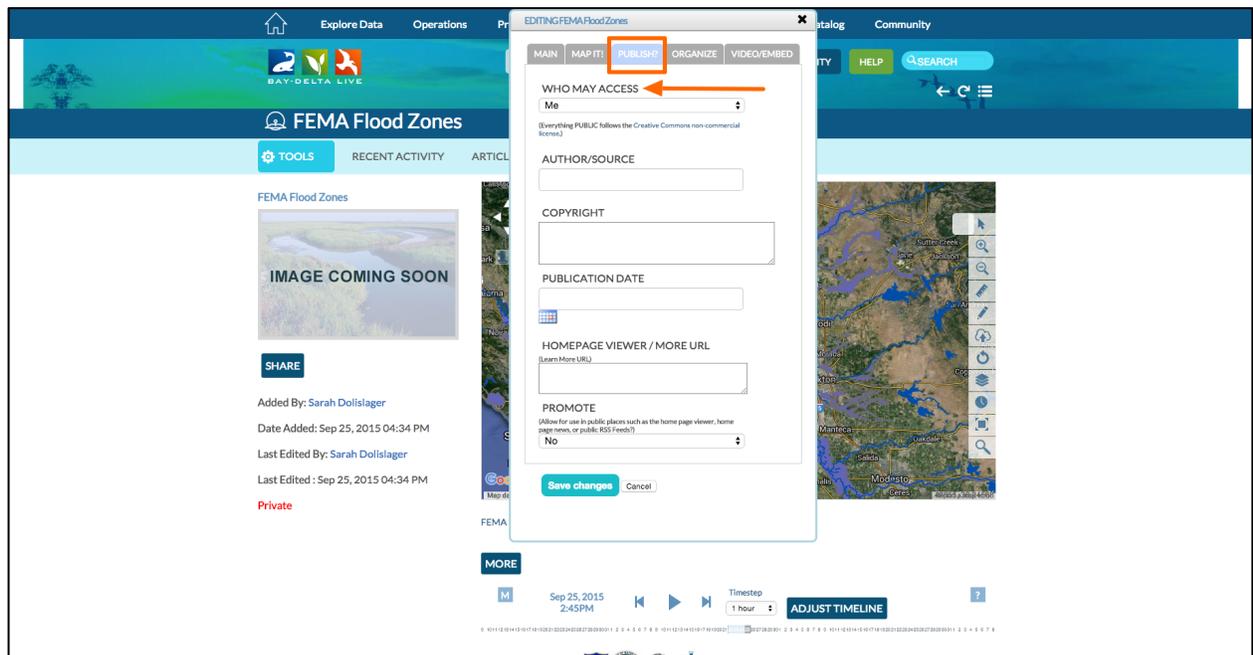
## Organize and Edit Your Map:

Now if you want to go back and edit the map information, you can hover over the TOOLS menu and click, “edit.”



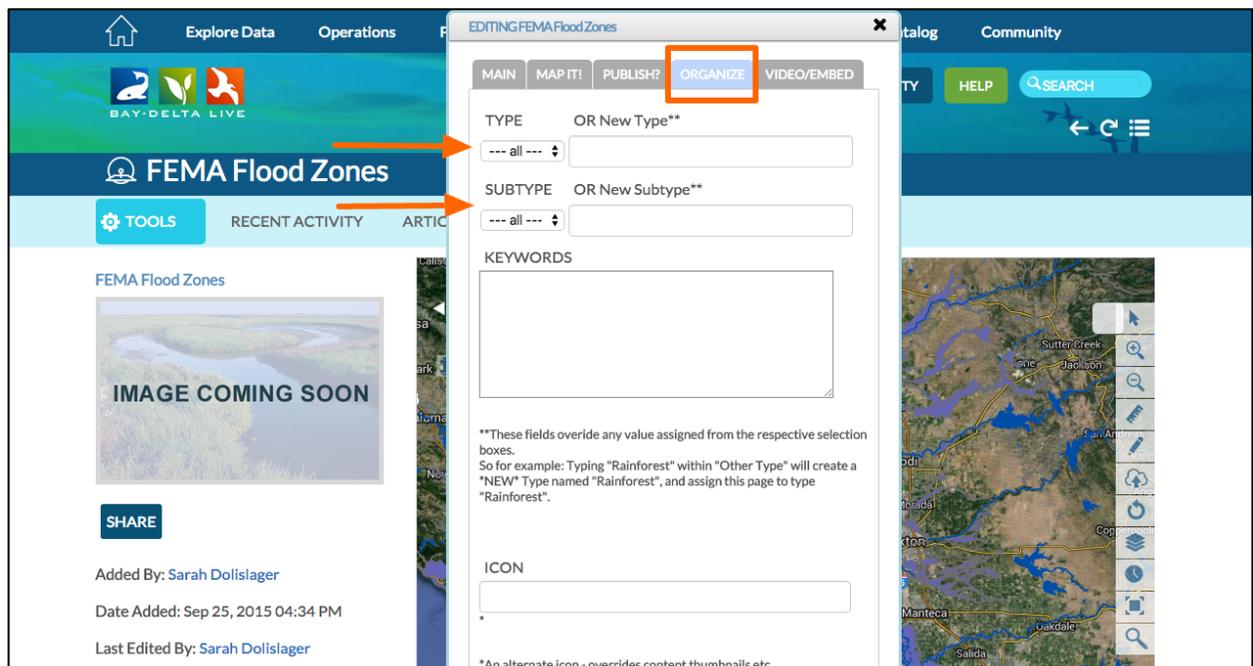
For instance, if you would like to make the map public, you can do so under the, “Publish” tab.

Just change the “Who May Access” drop-down menu to “everyone.”

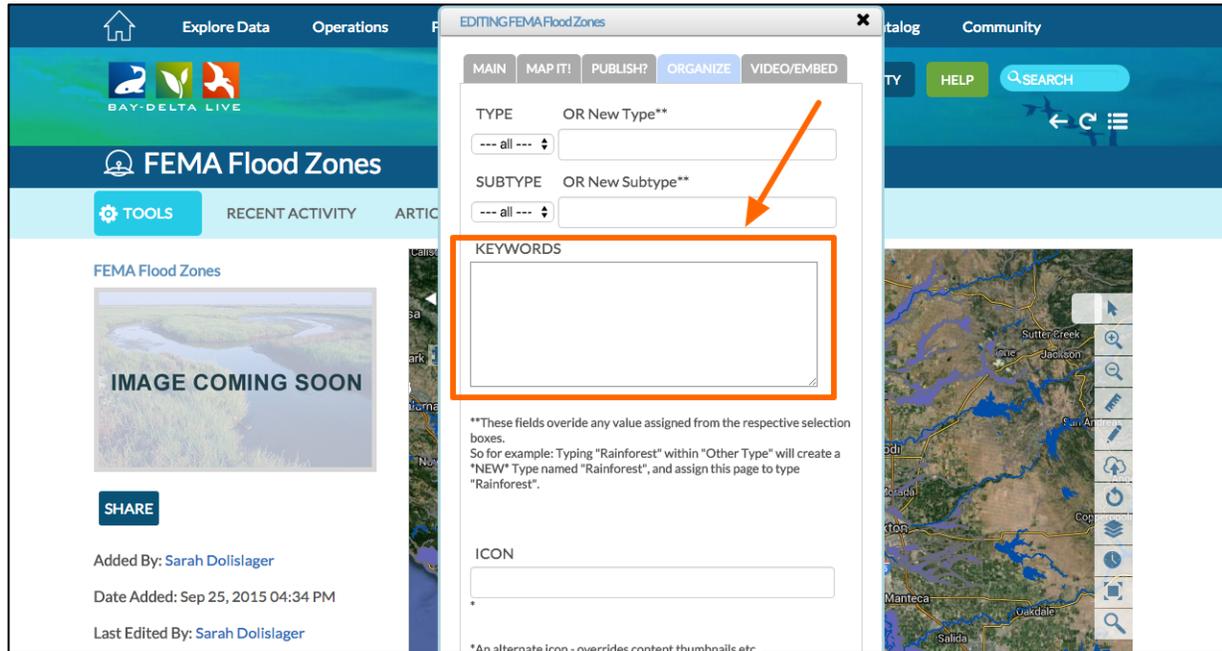


Then go to the, “organize” tab.

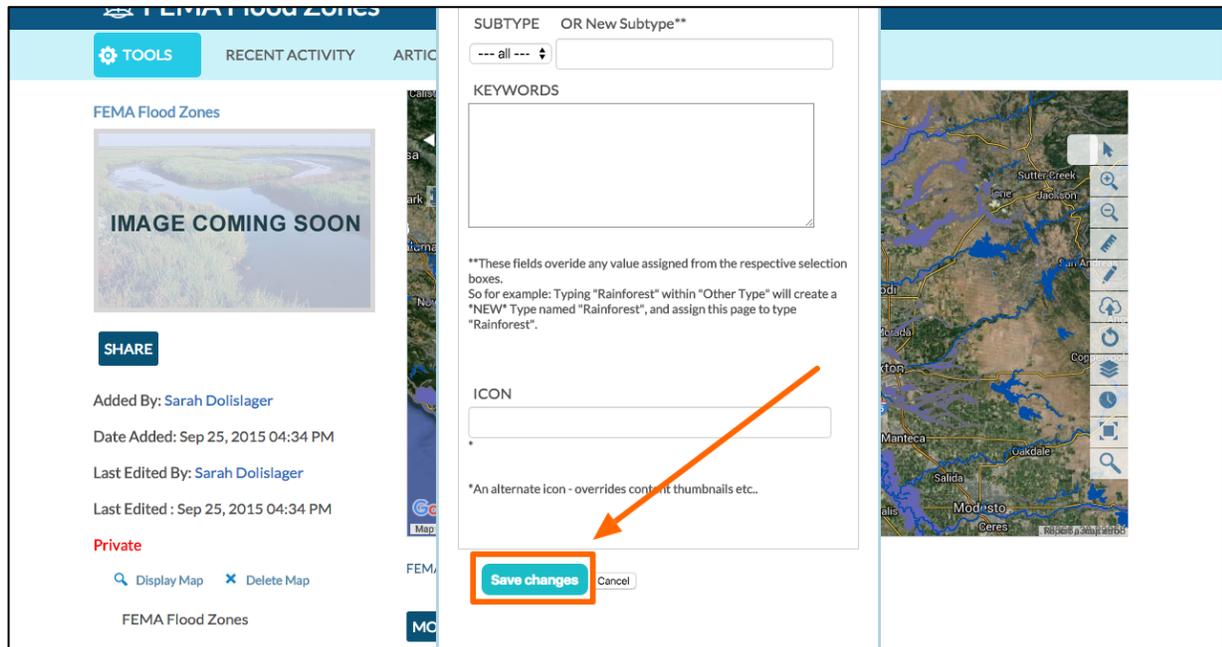
Here you can choose a type and subtype to categorize your map when people use the search function.



You can also specify any keywords in this box, separating each one by commas.

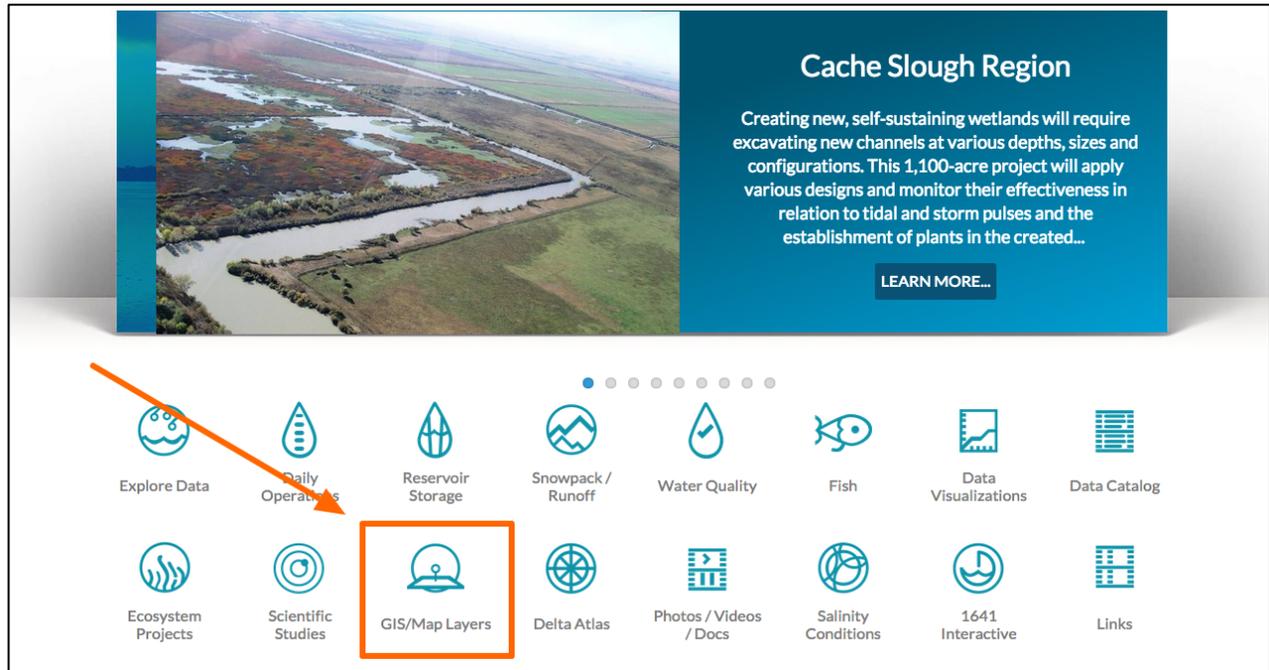


When you are done editing the map information, click, "save changes."

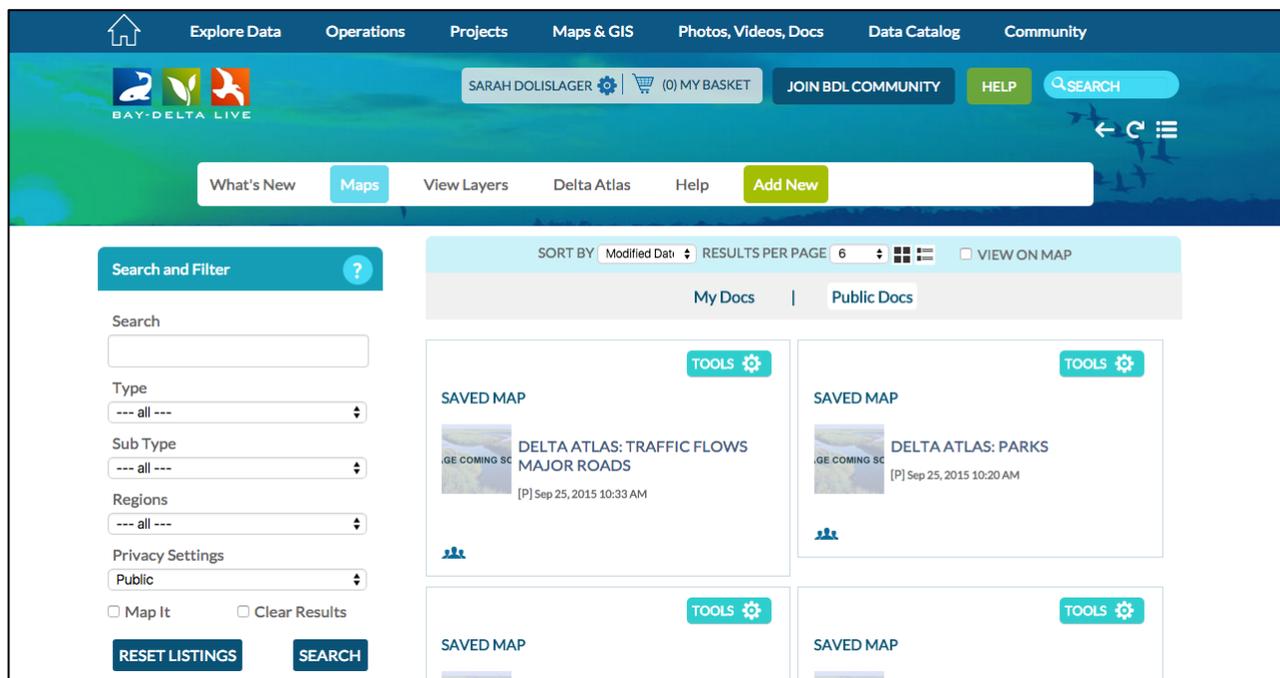


## Find the New Interactive Map in the Map Library:

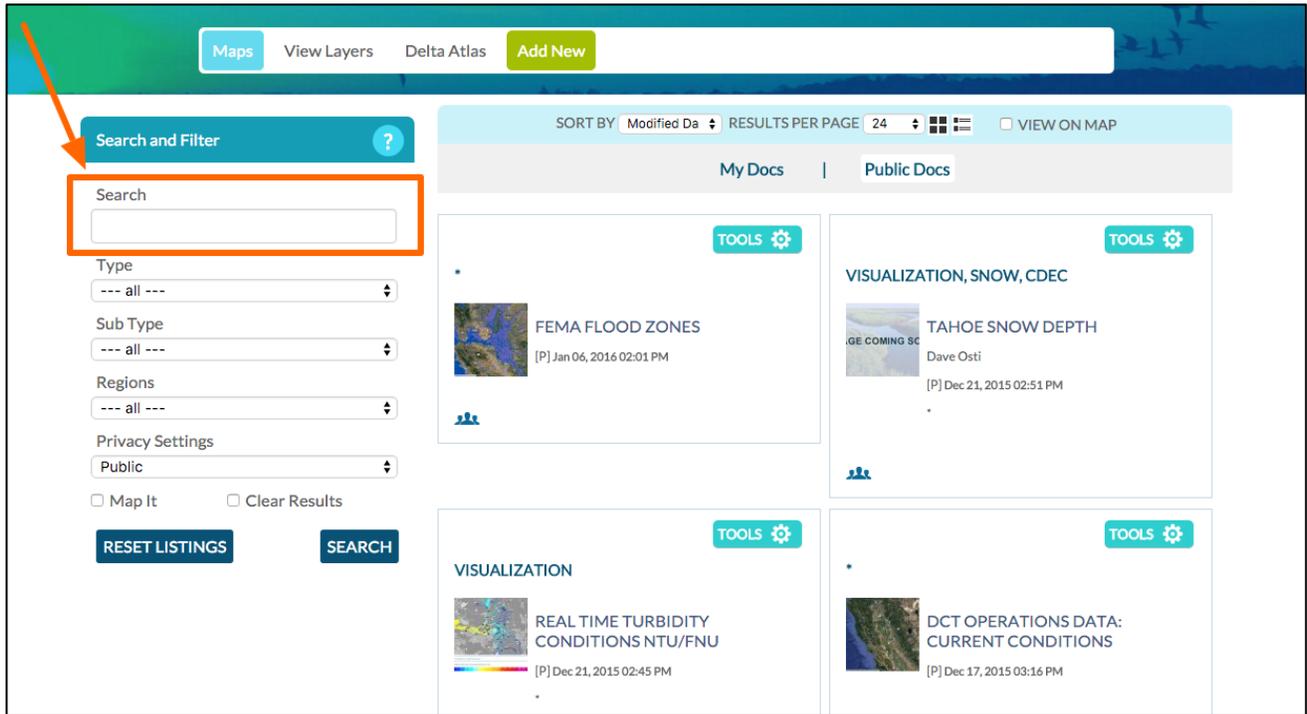
If you need to come back to your map later, you can access the map from the homepage by clicking on the “GIS/Map Layers” icon.



This brings you to the map library.

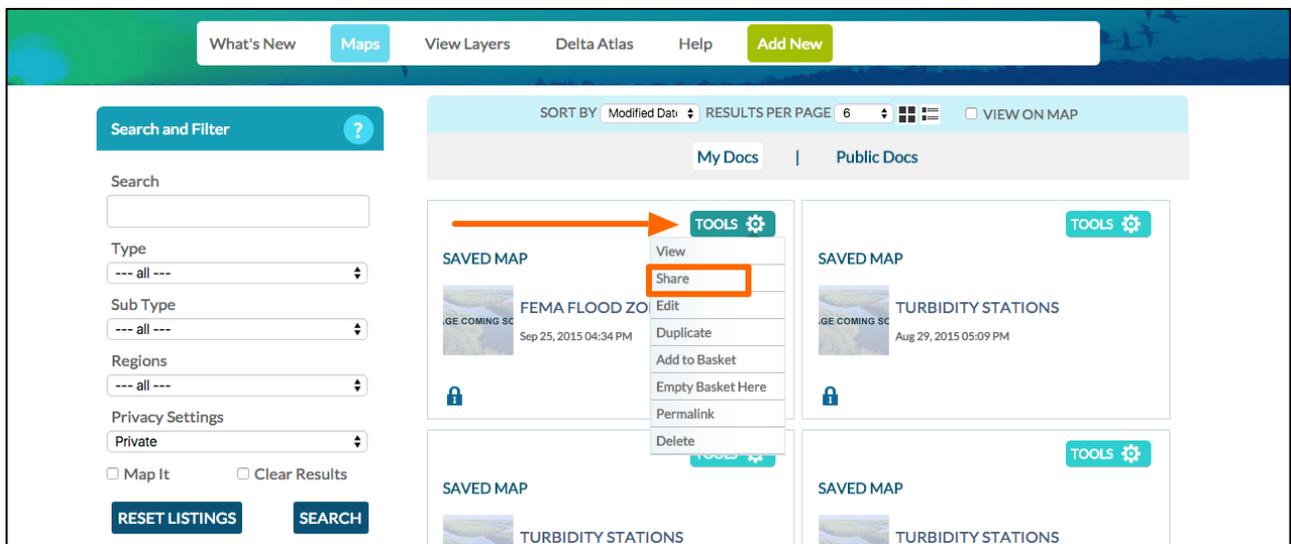


Either type the map name in the “Search” box or filter through the documents to find it.

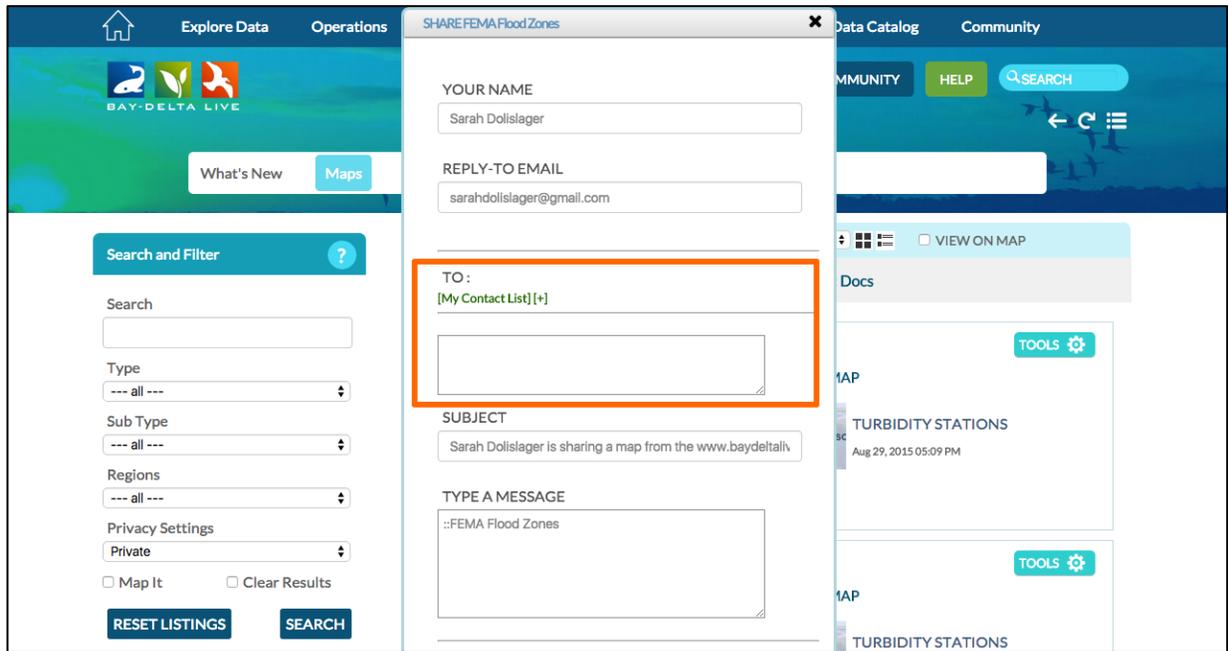


## Share Your Map:

To share your map, hover over the TOOLS menu and choose, “share” from the options.



A form appears. You can enter email addresses or use the BDL contact list to send this map to colleagues. Once you're done entering all of the information, click, "send."



This concludes the "Create an Interactive Map" video tutorial. We hope this helps you further analyze scientific data in the Delta.

