

# A COMPREHENSIVE SEARCH FOR ESSENTIAL FISH HABITAT DATA IN THE GULF OF MEXICO



Bridgette Froeschke, Ph.D.  
Spatial Ecology Lab  
The University of Tampa  
Environmental Studies Department

# Overall Process



## **Data Collection:**

Gather all available spatial data for each habitat type



## **Data Analysis:**

Use ArcPro to visualize spatial data layers  
Aggregate data by zones



## **Metadata:**

Include information on data source, title, author, description, geographic extent, projection, and format.

# Data Collection Methods

General online search

- Keywords

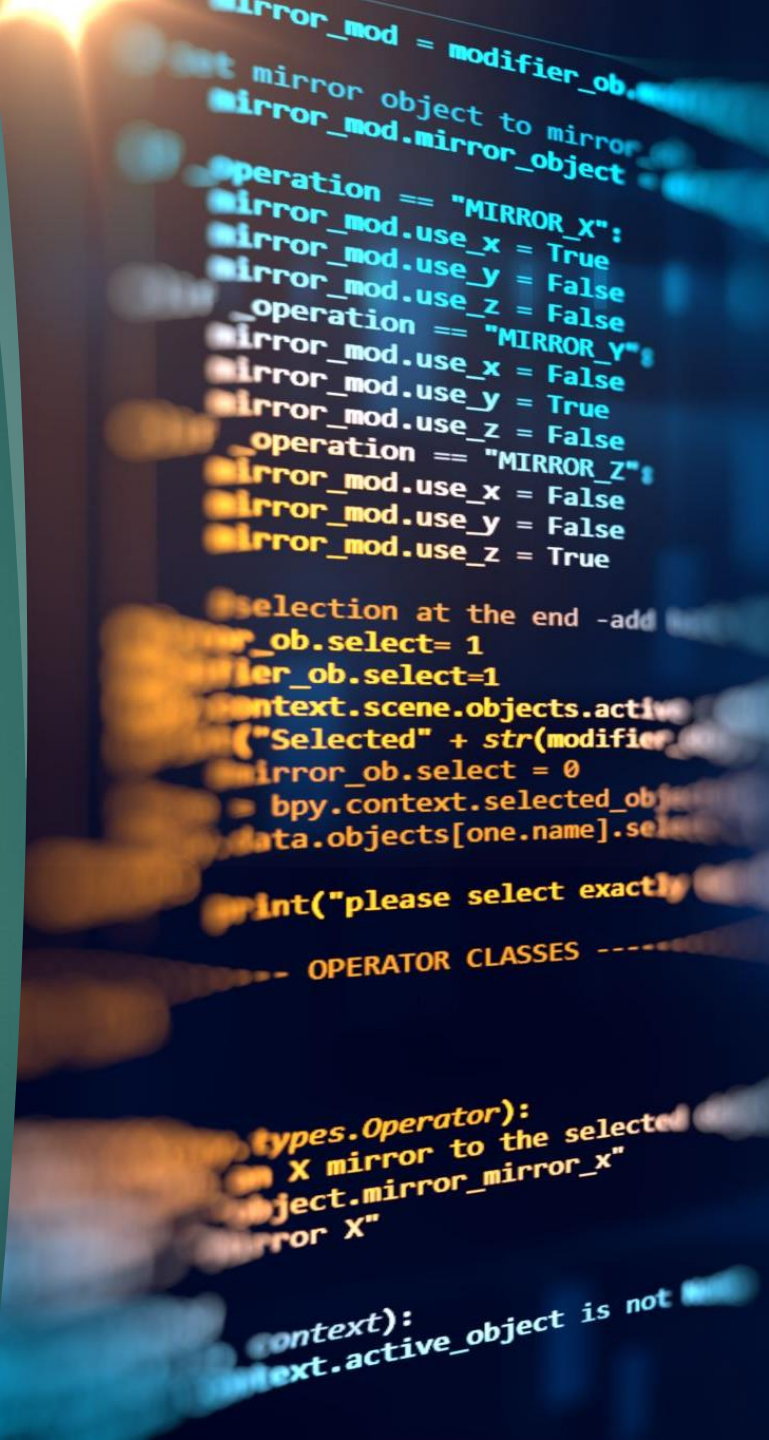
Federal and State Agencies

ArcGIS Online

Google Scholar

Refers

Interactive Webpages



# Metadata Categories

Metadata Category	Information
<b>Data Title</b>	Name of the dataset
<b>Data Description</b>	A brief description of the dataset, including its purpose, scope, and limitations.
<b>Data Creator</b>	The name of the person or organization that created the dataset.
<b>Date of Creation</b>	The date the dataset was created.
<b>Data Format</b>	The file format of the dataset, such as shapefile, GeoTIFF, or KML.
<b>Geographic Extent</b>	The spatial extent of the dataset, including its geographic coverage, projection, and units of measure.
<b>Spatial Resolution</b>	The level of detail or resolution of the data.

# Metadata Categories

<b>Metadata Category</b>	<b>Information</b>
<b>Spatial Resolution</b>	The level of detail or resolution of the data.
<b>Attribute Information</b>	A list of the attribute fields and their descriptions.
<b>Data Source</b>	Information about the source of the data, including any relevant publications or reports.
<b>Data Quality</b>	Information about the quality of the data, including accuracy, precision, completeness, and any known error or limitations.
<b>Access and Use Constraints</b>	Information about any restrictions or limitations on the use of the data, including licensing or copyright information.
<b>Contact Information</b>	Contact information for the person or organization responsible for the dataset, including their name, email address, and phone number.

# Creating StoryMaps



Engaging and interactive presentation of spatial data.



Easy navigation through maps and multimedia elements.



Accessible to a broad audience, including non-technical users.



Customizable and Shareable



Provides a comprehensive view of habitat data for informed decision-making.



Facilitates communication between scientists, policymakers, and the public.

# StoryMap Links

## **Louisiana:**

<https://storymaps.arcgis.com/stories/f1516ec030c948b6bea6aac9c665a445>

## **Texas:**

<https://storymaps.arcgis.com/stories/f493f4c71a3e4a6a80c60a4da84e9e19>

# Request for Assistance

## Missing Data:

- Identify any spatial data sources we may have overlooked.
- Suggestions for additional habitat types or regions to include.

## Contacts:

- Recommend experts or organizations we should reach out to for data.
- Introduce us to contacts with valuable data or insights.

## Presentation and Sharing:

- Ideas for effective ways to present the data to different audiences.
- Suggestions for platforms or tools to enhance data accessibility and dissemination.