

## **Self-Paced Workshop: Fishery Applications of GIS II**

### **Course Topics**

Fish Density Mapping, Biomass, Species Distribution, Mapping/Modeling CPU, Benthic Habitat Modeler, Correlation with Environmental Variables, Interpolating Point Data & more!!

### **Self-Paced Workshop**

This is a **self-paced** course, therefore the student is responsible for taking full advantage of the materials they will be sent (CD of data and PDF of Workbook). If a Certificate of Completion is desired, the student will be required to submit \*.jpgs of certain exercises in a timely manner to our staff as proof of progress. Knowledgeable assistance is available via email ([fbradley@mail.usf.edu](mailto:fbradley@mail.usf.edu)) or phone (727) 873-4863 (Fred Bradley). There is no lecture for this workshop and no meetings; everything is on your own using the materials provided.

### **TOPICS COVERED**

#### **Mapping/Modeling Optimal Habitat Determination**

- Correlation with Environmental Variables Seasonal Optimal Habitat Determination for CPU Recommendation
- Graphing Seasonal Habitat Data
- Seasonal Comparison of Fish Habitat Maps (Using the Map Comparison Kit)

#### **Biomass Mapping**

- Converting Vector Polylines to Raster
- Converting Vector Points to Raster
- Reclassifying Raster/Grid Datasets
- Use Tabulate Areas Command in Spatial Analyst Tools
- Calculation of Relative Biomass

#### **Advanced Point Data Integration Methods**

- Density Mapping I: Estimate Density for Fish Population
- Density Mapping II: Estimate Density Using Attributes
- Species Distribution Mapping
- Random Sample Selection Tool
- Extracting Point Data from Raster

<i>What Is Unique About Self-Paced Workshops?</i>	
<b>Instructor-Led Workshop</b>	<b>Self-Paced Workshop</b>
On 9am-4pm schedule	On your schedule
On-site (USF St. Petersburg)	At your location of choice
Instructor available in class	Assistance available via email/phone
Certificate of Completion at end of course	Certificate of Completion at end of course upon submission of *.jpgs
Use lab computers with software and data pre-installed	Install data on your computer and 180-day trial version of ArcGIS (with extensions)

## Contact Us

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