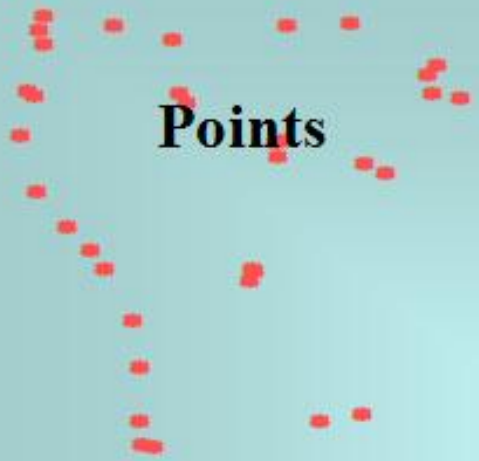
Geographic Information System

What is a GIS?



Points

Human Use Locations

Polygons

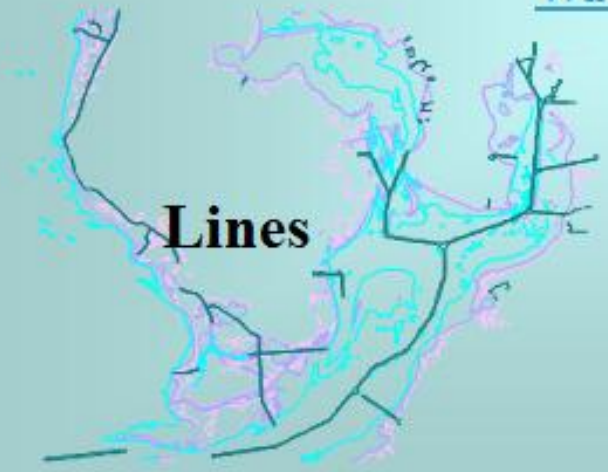
Seagrass

Geographic

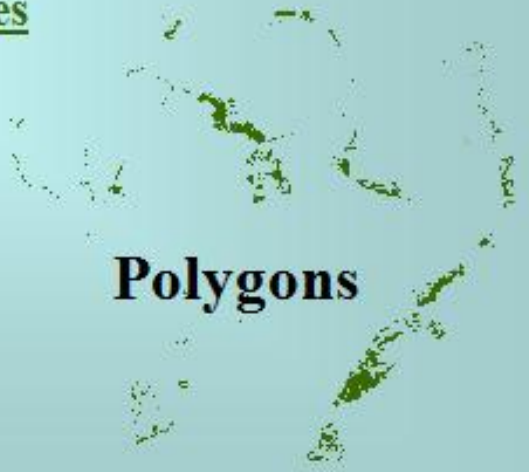
(What/where is it?)

Water Depth

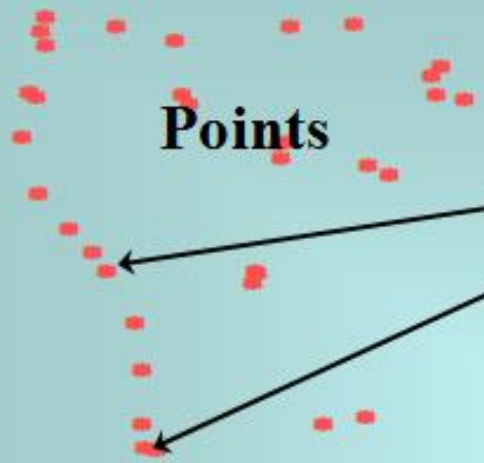
Mangroves



Lines



Polygons



Points

Human Use Locations

beach access

boat ramp

Polygons

Seagrass

patchy

continuous

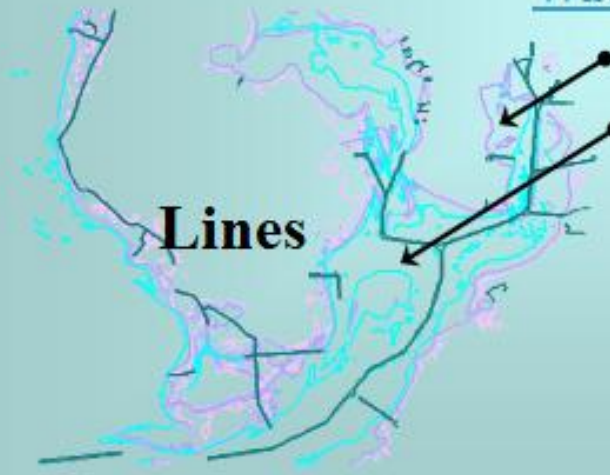
Information

(What's important about it?)

Water Depth

3 feet

12 feet

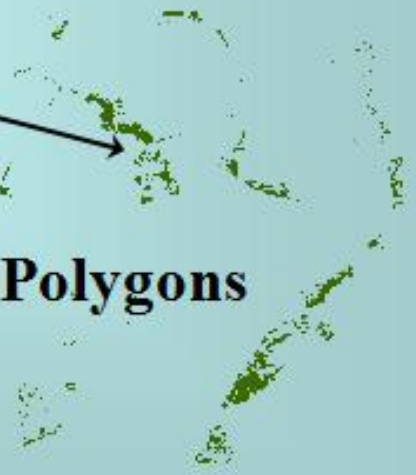


Lines

Mangroves

dense

sparse



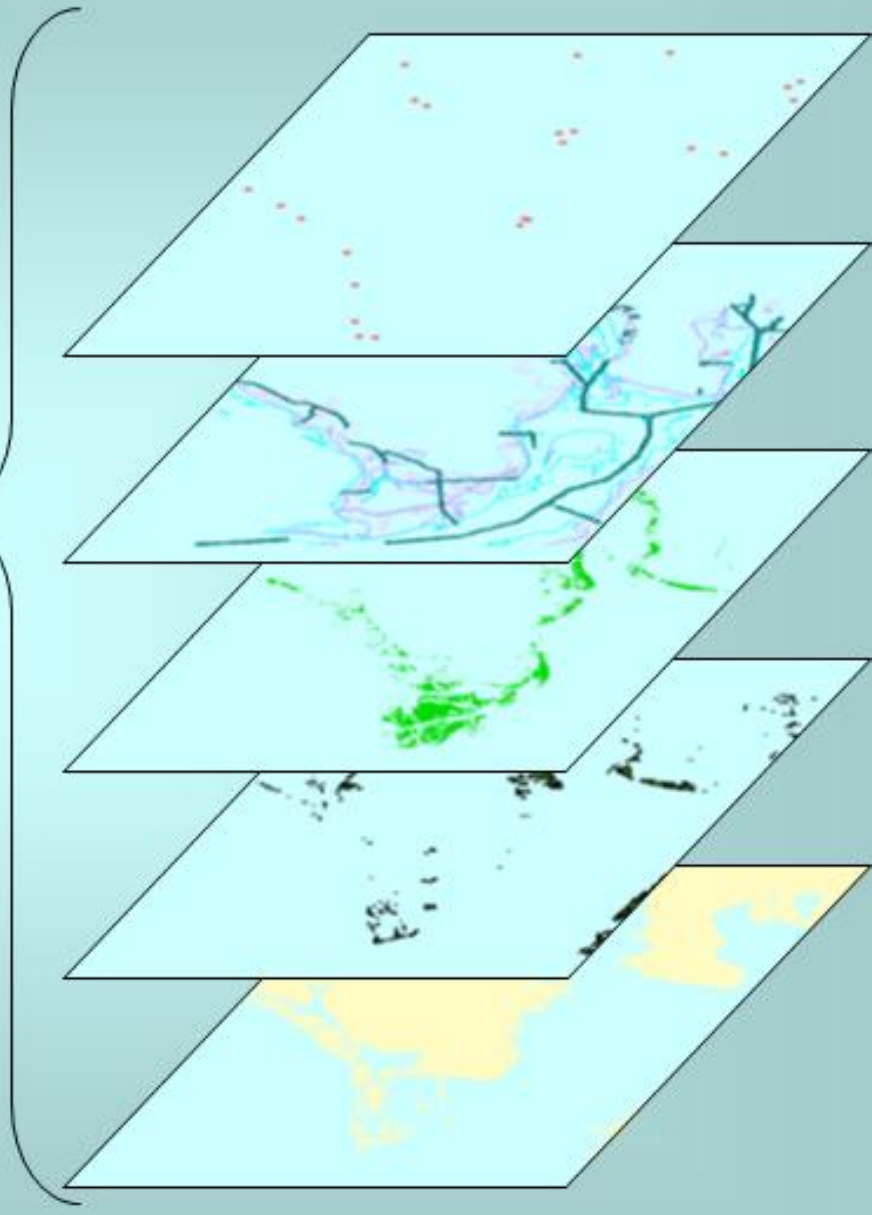
Polygons

Marine Resources Database

System

(How do we collect, store, and present the data?)

GIS Data Layers



Location: **Where is it?**

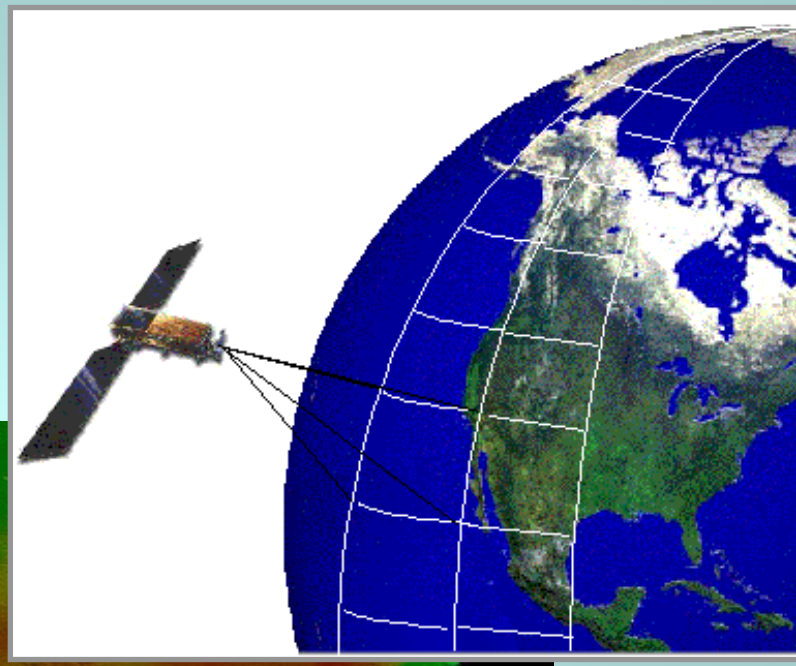
Trends: **What has changed?**

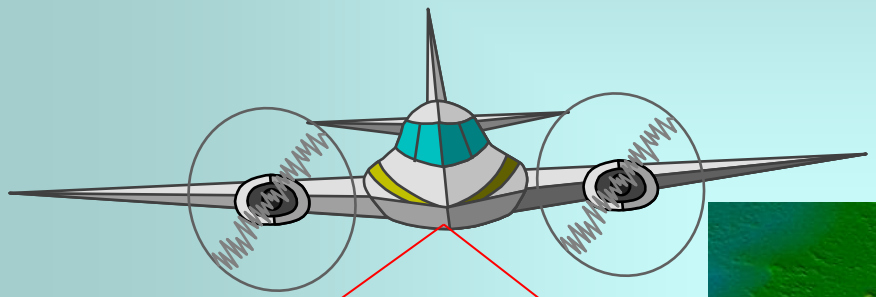
Patterns: **What spatial patterns exist?**

Modeling: **What if?**

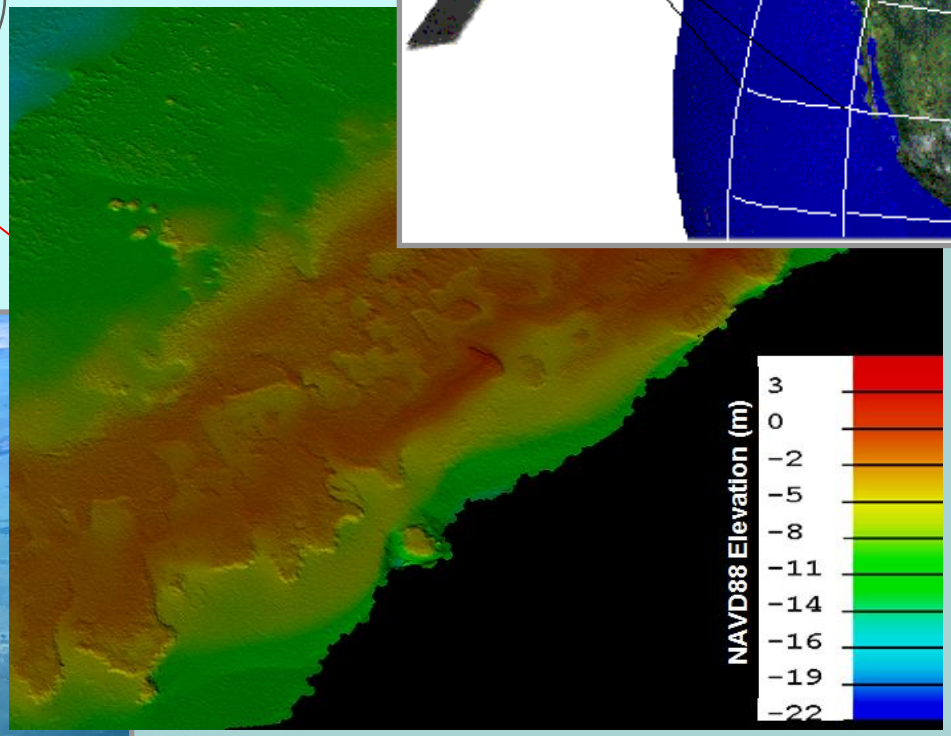
How do we gather information using remote sensing?

Satellite



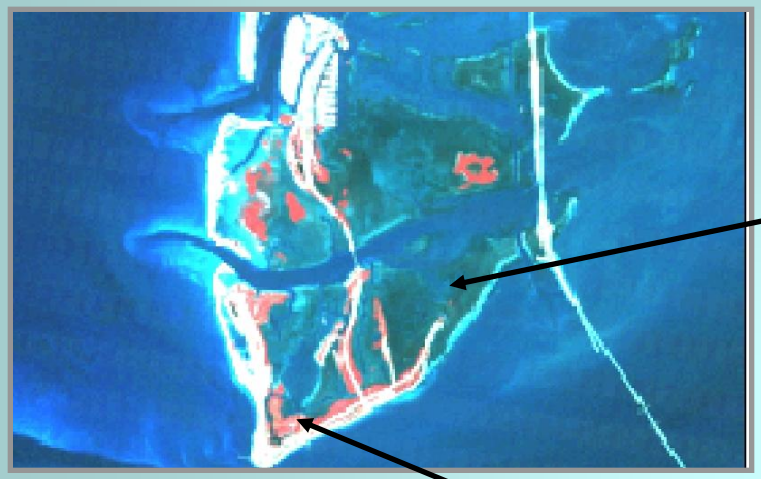


Aircraft



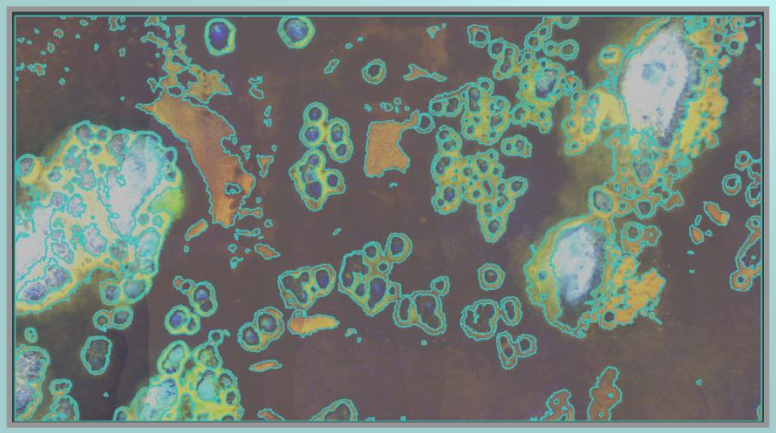
LiDAR or Sonar

How does FWRI use remote sensing?

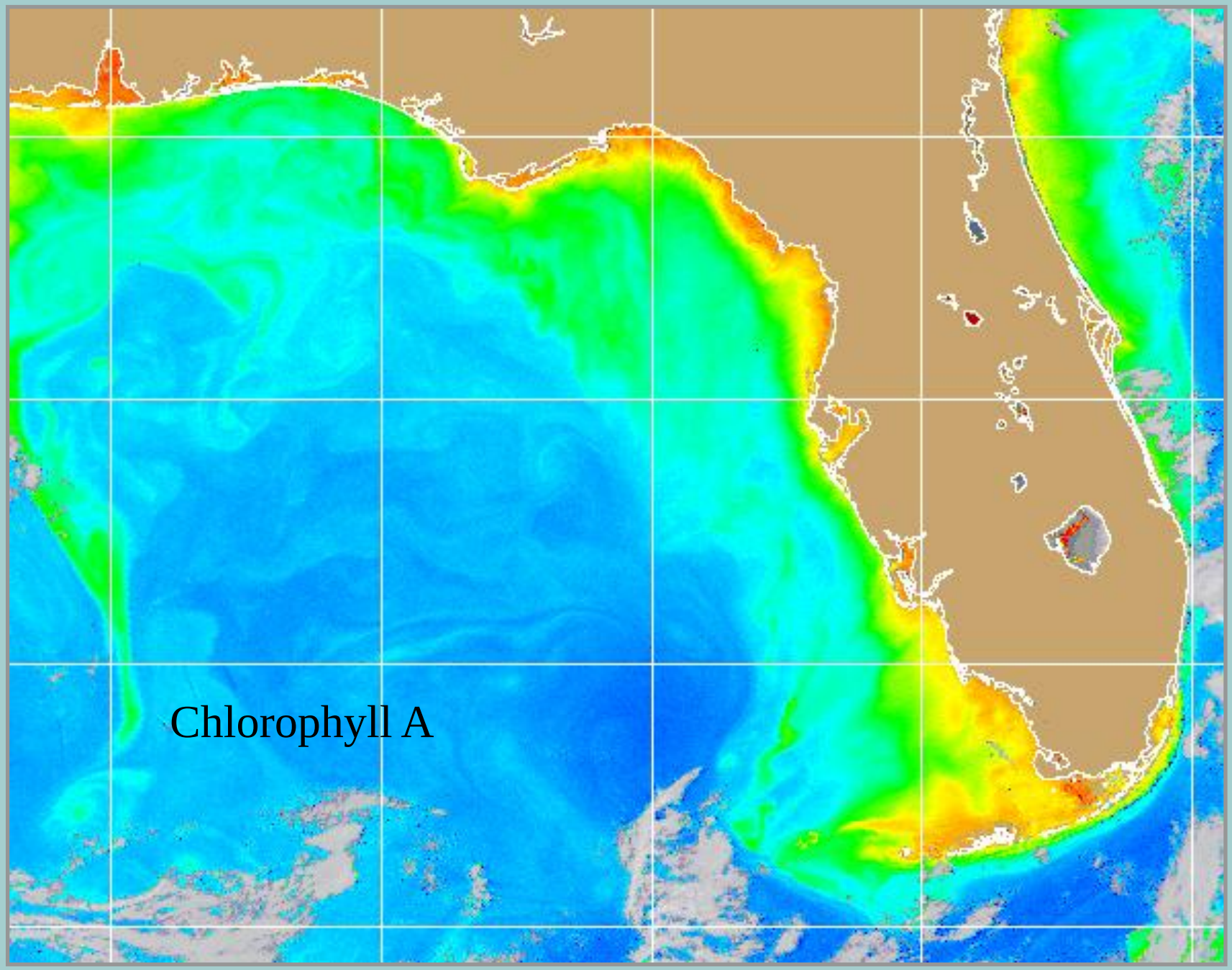


Seagrasses

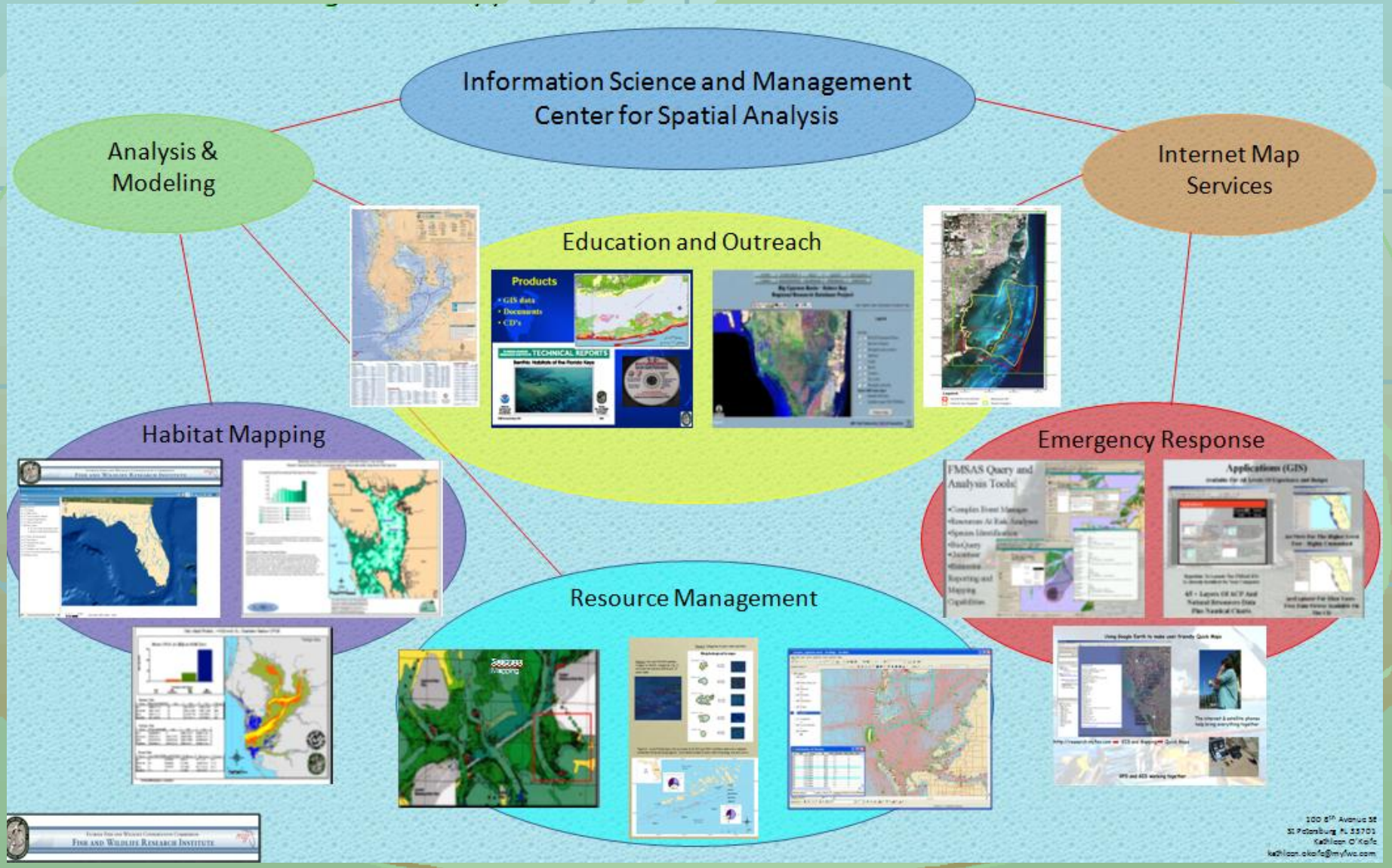
Mangroves



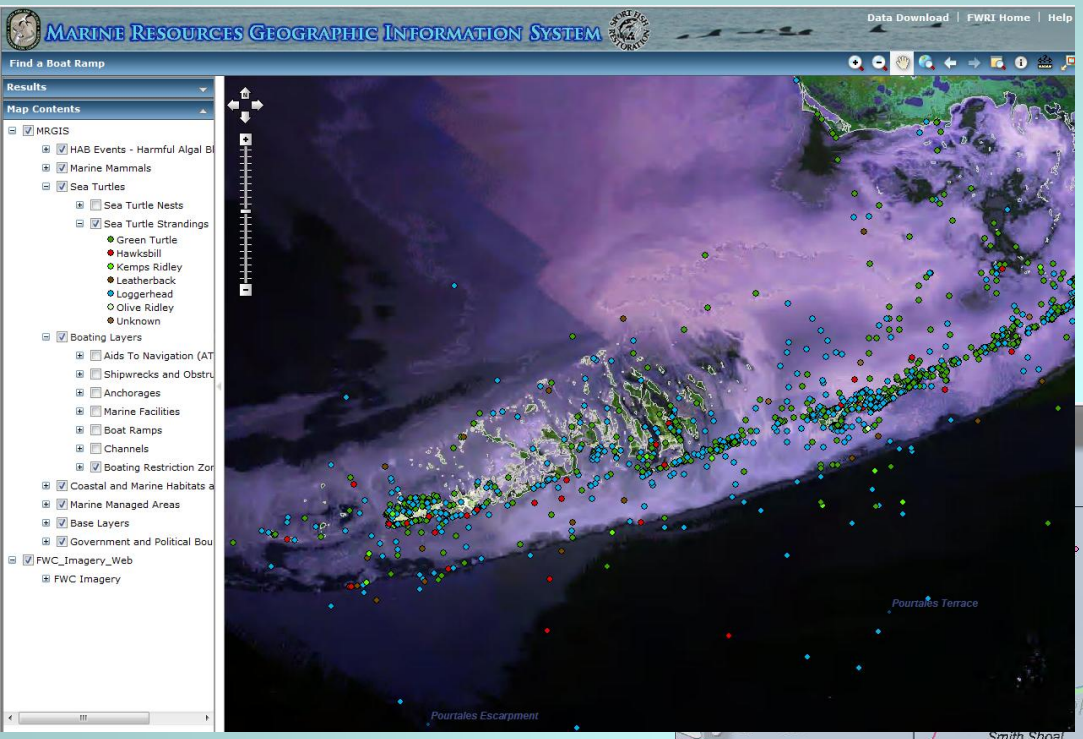
Corals

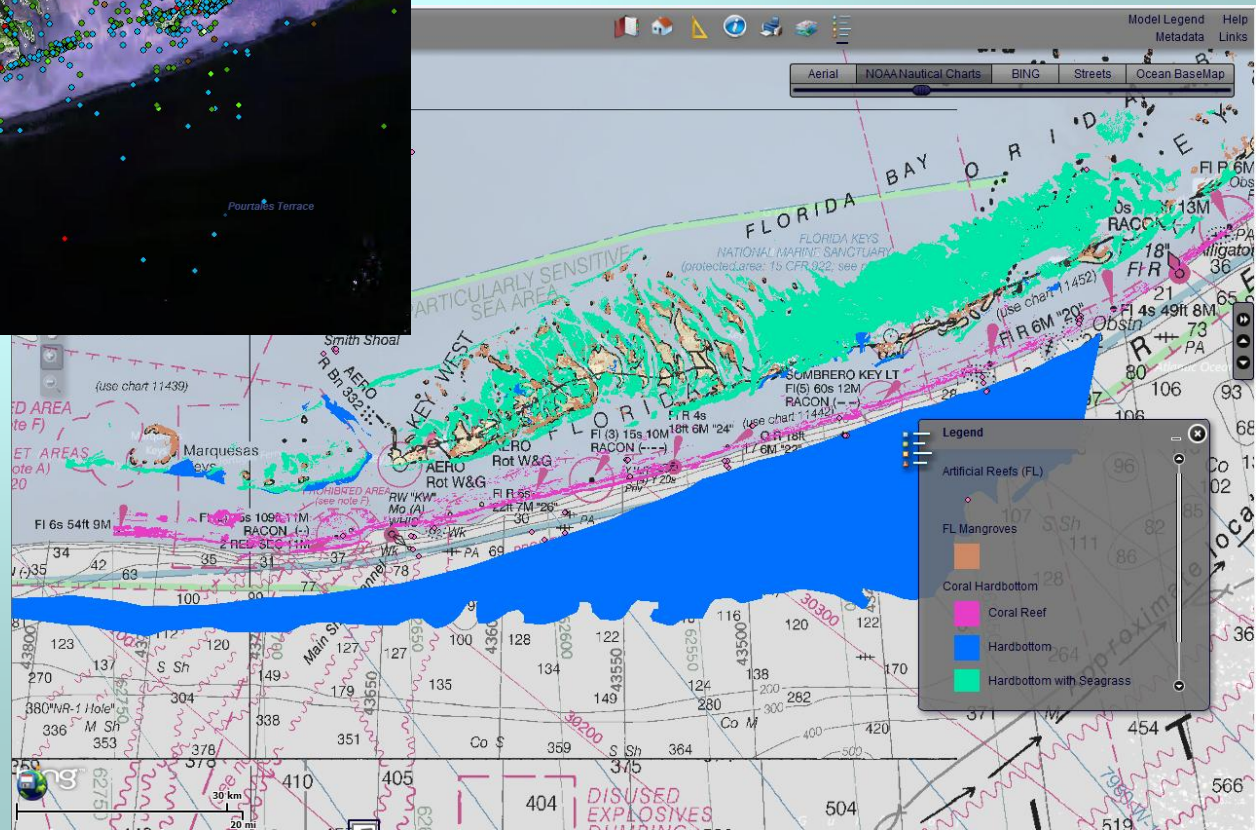

Chlorophyll A

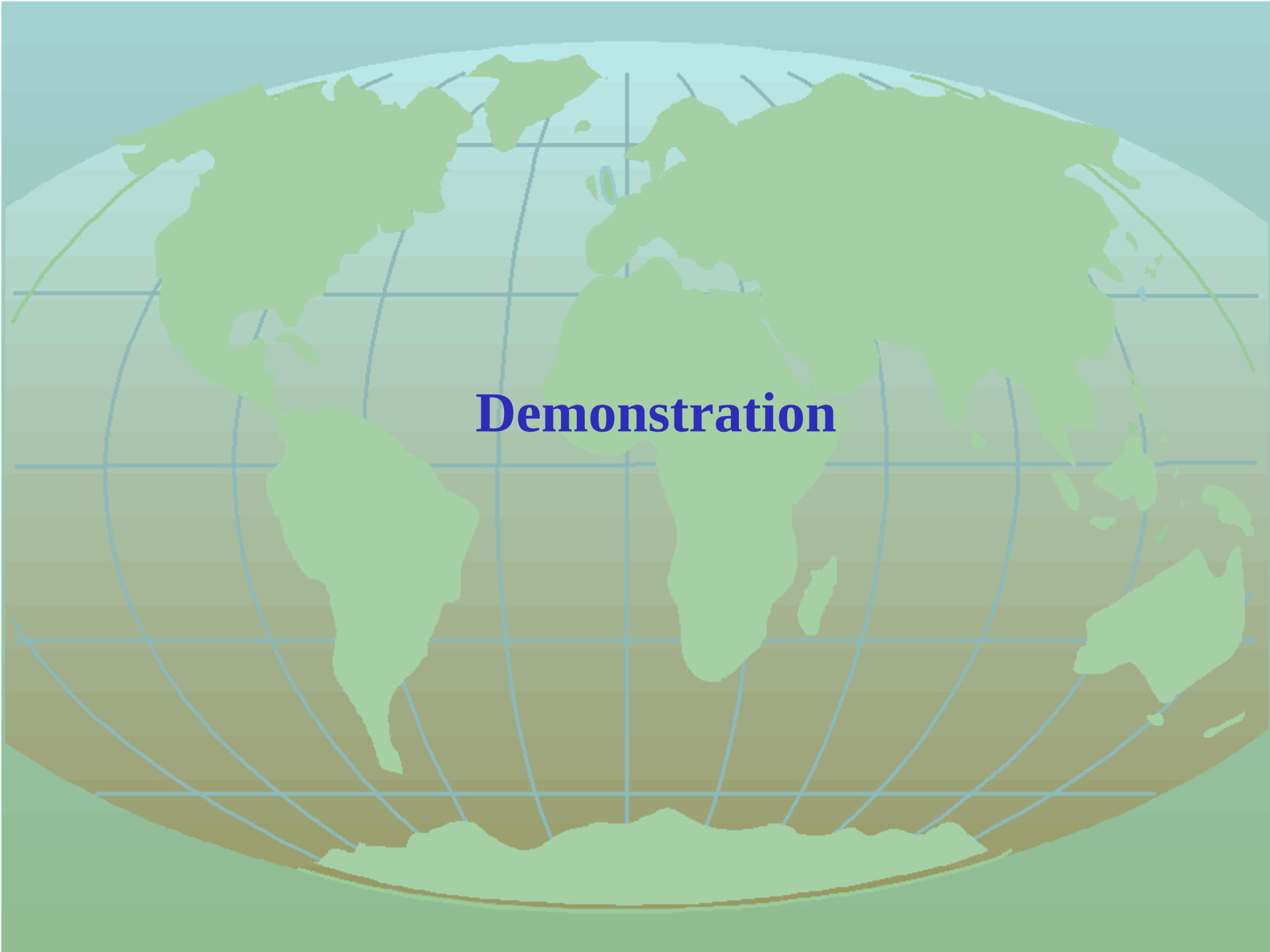
How does FWRI present information to the Public?



Internet Mapping






Demonstration