

FWC FWRI

Data Discovery Workshop 2008

- ▶ GIS Data Layers
- ▶ Map Services - IMS Sites
- ▶ GIS Data Download Website
- ▶ Imagery
- ▶ Area Contingency Plans (ACPs)

Presenter: René Baumstark
rene.baumstark@myfwc.com



GIS Data Layers - MRGIS

- ▶ Enterprise Database powered by ESRI ArcSDE
- ▶ Albers Custom Projection, NAD 83
- ▶ Data layers unique to FWC
 - Categories:
 - ▶ Bathymetry
 - ▶ Benthic
 - ▶ Boating
 - ▶ Boundaries
 - ▶ ESI
 - ▶ Habitat/Wildlife
 - ▶ Oil Spill
 - ▶ Places
 - ▶ Transport



Bathymetry

- ▶ Nearshore – All of the Florida coastal waters digitized from NOAA nautical charts
- ▶ Offshore – All of the Gulf of Mexico and Southeast U.S. Offshore waters including the Bahamas and Cuba digitized from NOAA nautical charts

Benthic

- ▶ Artificial Reefs
- ▶ Bottom Types
- ▶ Seagrass Beds
- ▶ Shallow Banks
- ▶ Oyster Reefs
- ▶ SEAMAP

Boating

- ▶ Anchorages
- ▶ Freshwater Boat Ramps
- ▶ Boat Ramp Information
- ▶ Boating Restricted Areas
- ▶ Security Zones (Select)
- ▶ Statewide Marine Facilities
- ▶ Mooring Buoys – Biscayne Bay
- ▶ Shipwrecks
- ▶ Shallow banks and shoals
- ▶ Aids to Navigation
- ▶ Intra Coastal Waterway
- ▶ Vessel Corridors
- ▶ Waterways

Boundaries

- ▶ Areas to be Avoided
- ▶ FWC Fish Management Areas
- ▶ FWC Manatee Protection Areas
- ▶ FWC Regions
- ▶ Hunting areas
- ▶ Johnsons Seagrass Critical Habitat
- ▶ Marine Ecosystem Management Areas
- ▶ Marine Precautions
- ▶ Maritime Limits
- ▶ Right Whale Critical habitat & MSR
- ▶ Shellfish Areas
- ▶ Shorelines - Multiple Scales
- ▶ Spiny Lobster Sanctuary
- ▶ Tortugas Ecological Reserve
- ▶ Wildlife Management Areas

Habitat/Wildlife

- ▶ Environmental Sensitivity Index – Shoreline/Biological
- ▶ IWHRS
- ▶ Kissimmee Chain of Lakes Vegetation
- ▶ Salt Marsh
- ▶ Statewide Land Cover classification
- ▶ Mangroves
- ▶ Wildlife observations
- ▶ Select Wildlife Habitats
- ▶ Breeding Bird Atlas

Oil Spill

- ▶ Booming Strategies
- ▶ Coast Guard Stations
- ▶ Oil Spill- Particularly Sensitive Areas - Ranked
- ▶ Tidal Inlets
- ▶ Port Authorities
- ▶ USCG/EPA Oil Spill MOU Boundary
- ▶ Oil Spill Staging Areas

Places

- ▶ Beach Names
- ▶ FDLE Regional Crime Labs
- ▶ FWC Facilities
- ▶ State Park Entrances
- ▶ Underwater Archaeological Preserves
- ▶ Inlets and Passes

Map Services/IMS Sites

- ▶ Marine Resource GIS (MRGIS):
<http://ocean.floridamarine.org/mrgis>
- ▶ South Atlantic Habitat and Ecosystem (SAFMC):
http://ocean.floridamarine.org/efh_coral
- ▶ Coastal Resource Information System (CRIS)
<http://ocean.floridamarine.org/bw/>

GIS Data Download Website

▶ HTTP Download:

- Shapefiles in .zip files, Metadata (.xml and .html), Google Earth zipped KML files (.kmz).

▶ Boating

▶ Seagrass

▶ Ocean Bottom Habitats

▶ Bathymetry

▶ Harmful Algal Blooms

▶ Manatee

▶ Turtle

▶ Parks and Recreation

▶ Management

▶ Base Layers

http://ocean.floridamarine.org/mrgis/Description_Layers_Marine.htm

Imagery

▶ RGB

- Big Bend 2006
- Springs Coast 2006
- Western Everglades 2006
- Biscayne Bay 2005
- Florida Bay 2004

▶ LIDAR

- Middle Keys 2006
- Martin County waters - upcoming
- Biscayne National Park, outside bay – upcoming

▶ Acoustics

- Dry Tortugas – 2008, Parts of the area
 - ▶ Will get whole park in 6 months

Area Contingency Plans

Oil and Hazmat

- ▶ All Florida Sectors represented – Jacksonville, Miami, Key West, Saint Petersburg
- ▶ Booming Strategies
 - General
 - Tidal inlet protection strategies
- ▶ Contingency Plan Documents, Contacts, Maps, and Job Aids
- ▶ HTML, PDF, and GIS based

<http://ocean.floridamarine.org/acp>

Future Work

- ▶ Environmental Assessment GIS (EAGIS)
- ▶ Serve more imagery – Server image caches
 - Also provide more historic imagery
- ▶ Provide more data through OGC compliant Web Map Services
- ▶ Google Earth Enterprise
- ▶ Terrestrial Resource Information System (TRGIS) IMS:
<http://ocean.floridamarine.org/trgis/>

Data Request Contacts

- ▶ Data Requests:
 - GISLibrarian@myfwc.com
- ▶ Website: research.myfwc.com

