

FY12 Gulf of Mexico Data Atlas Update

3rd Gulf Hypoxia Workshop

NCDDC Update

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Gulf of Mexico Data Atlas Update – www.gulfatlas.noaa.gov

The screenshot displays the NOAA Gulf of Mexico Data Atlas interface. At the top, the NOAA logo and the text "NOAA GULF OF MEXICO DATA ATLAS" are visible. Below this is a navigation bar with tabs for "Basemap", "Physical", "Biotic", "Living Marine Resources", "Economic Activity", "Environmental Quality", and "Jurisdictions". The "Physical" tab is selected, and the sub-tab "Coastal Relief - Northern Gulf" is active.

The main map area shows a satellite-style view of the northern Gulf of Mexico coastline. A semi-transparent menu is overlaid on the map, listing "Base Layer" and "Overlays" options. The "Base Layer" options are "World Imagery Map" (selected), "World Topography Map", and "Simple World Map". The "Overlays" options include "World Reference Map" (checked), "General Bathymetry Map (meters)", "Detailed Bathymetry Map (meters)", "U.S. Shoreline", and "Place Names - Ocean".

On the right side of the map, there is a "Description" panel. It features a title "Coastal Relief" and a paragraph of text: "Four separate maps are available that provide greater coastal relief detail. Use the table below to select one of these relief maps." Below the text is a table with four rows, each containing a location and a "Click to View" link.

Biloxi, Mississippi	Click to View
Mobile, Alabama	Click to View
New Orleans, Louisiana	Click to View
Panama City, Florida	Click to View

Below the table is a paragraph of text describing the use of Digital Elevation Models (DEMs) for coastal processes, including modeling, mapping, and research. At the bottom of the description panel are "Legend" and "More Information" links.

At the bottom of the map area, there is a scale bar showing 0, 40, and 80 miles, and a "Set Opacity" control set to 0.5.

The footer of the page contains two columns of text. The left column includes "U.S. Department of Commerce | NOAA | NESDIS | NODC | NODDQ", "Disclaimer | Privacy Policy | Copyright Notice | BGA.gov". The right column includes "Information Quality | Freedom of Information Act (FOIA)", "Customer Service | NODC.Webmaster@noaa.gov".

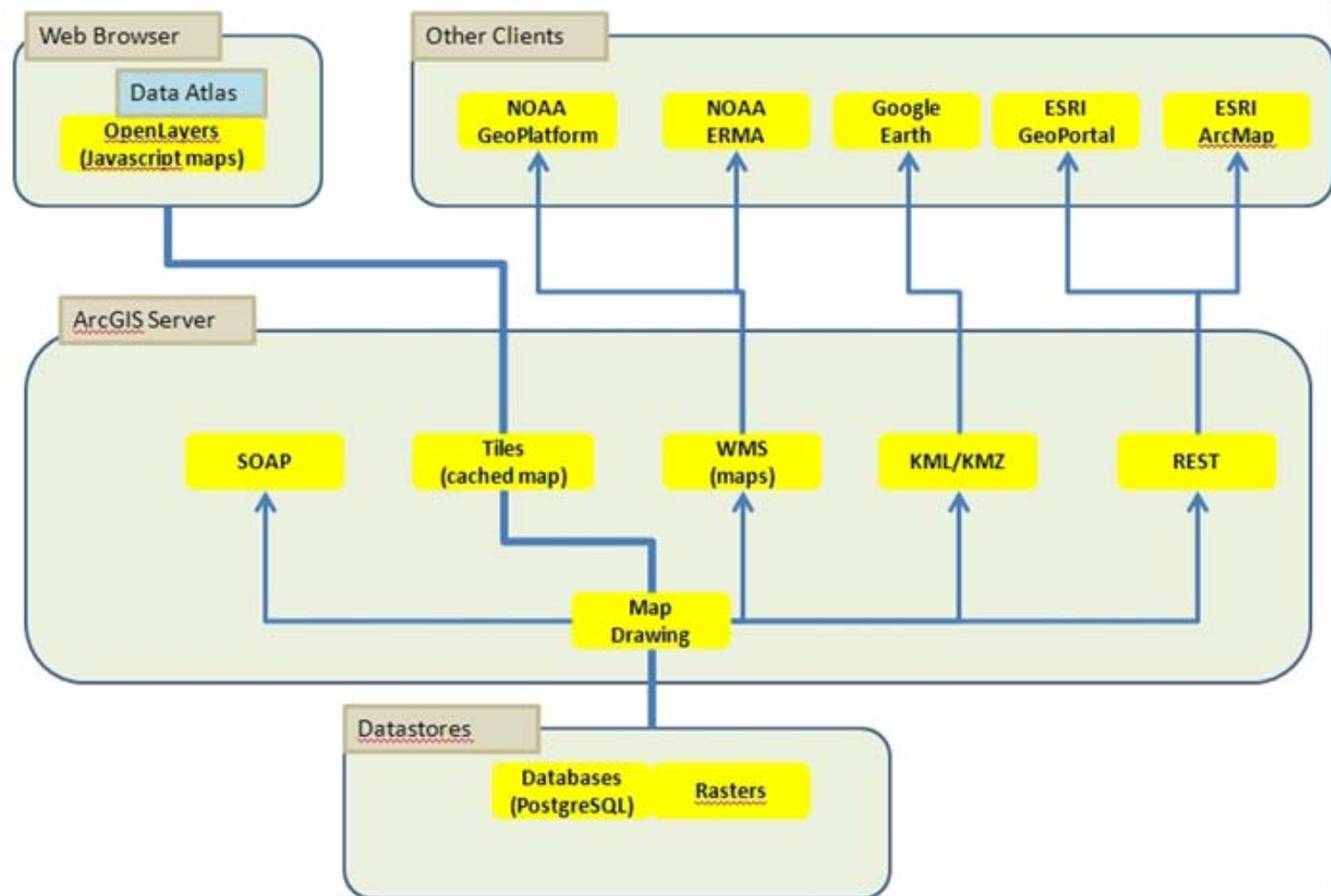


Figure 1. NOAA GeoPlatform, NOAA ERMA, Google Earth, ESRI Geoportal, ESRI's ArcMAP are clients to the data atlas (on the left). Client's access the data, information, and mapping layers for ingest into their respective service via web mapping services (WMS); ArcGIS Server et al.

FY12 Data Sets for Completion

Physical Theme

- Dissolved Oxygen: SEAMAP Hypoxia Contours Animation (SEFSC)
- Dissolved Oxygen: GCOOS Non-Federal Monitoring Stations (TAMU)
- Ocean Currents: OSCAR data (NCDDC)
- Coastal Precipitation: TRMM data (NCDDC, NASA Goddard & LSU)
- Nutrients- Nitrates/Phosphates/Silicates: WOA data (NODC/NCDDC)

FY12 Data Sets Continued

Physical Theme

- Estuarine Bathymetry: Grand Bay NERR Bathymetry (GBNERR & NCDDC)
- Coastal/Estuarine Salinity: ELMR Coastal Salinity Zones & Seasons (NCCOS?)
- Petroleum Hydrocarbon Seeps: BOEM Seismic Anomalies

FY12 Data Sets Continued

Biotic Theme

- Deep Sea Corals: Gulf-Wide Deep Sea Corals (NCCOS)
- Benthic Habitat Maps: Benthic Habitat, Including SAV for TX and FL (CSC)

Living Marine Resources

- Independent Fisheries Catch Data: CAGES Data (SEFSC Galveston & NCDDC)
- Essential Fish Habitat: Alabama Fisheries/FOCAL Survey Data -Croaker, Menhaden (NCDDC & DMR)
- Marine Mammals- Bottlenose Dolphin/Sperm Whale: SEFSC Pascagoula & NCDDC)

FY12 Data Sets Continued

Economic Theme

- Offshore Activity: Shipping, Wrecks, & Obstructions (BOEM)
- Offshore Activity: Gas and Oil Pipelines (BOEM)
- Offshore Activity: Shipping Traffic (NETWATCH NCCOS)

Environmental Quality Theme

- Mussel Watch: NCCOS

New Request FY12 Data Sets

Biotic Theme

- Seasonal SEAWIFS ChL a: SEFSC & NCDDC
- Seasonal Colored Dissolved Organic Matter (CDOM): NRL & NCDDC
- NASA ROSES Project (CSC & NCDDC)
- New GSMFC Managed Species: NCDDC, GSMRC, and SEFSC)

New Source Data – FY12

Grand Bay National Estuarine Research Reserve (NERR)

Sample Sets

Erosion Monitoring

Sandhill Crane Habitat Evaluation

Oyster Resources

SAV Monitoring

Salt Panne Distribution

NOAA Bathymetry

Watershed-hydrologic Mapping

Hg Monitoring

Estuarine Fish

Freshwater Fish

Habitat Mapping and Change

LIDAR Watershed

New Request FY12 Data Sets

Ocean Conservancy

- Oil and Gas Boreholes (wells, BOEM Multipurpose Marine Cadastre)
- Projected Sea Level Rise (Surging Seas by Climate Central, or equivalent)
- US Sea Turtle Densities (BOEM modeled data from Multipurpose Marine Cadastre)
- Hazardous Material Spills (NOAA & USCG)
- Shrimp Trawling distribution (summary of NMFS Electronic Logbook data for releasability)

New Request FY12 Data Sets

Ocean Conservancy

- Menhaden Reduction Fishery (summarized for releasability)
- Seasonal Sargassum distribution (Gower et al.)
MERIS derived data
- Sperm Whale Density (seasonally modeled data from Multipurpose Marine Cadastre)
- Bottlenose Dolphin Density (seasonally modeled data from Multipurpose Marine Cadastre)
- Bluefin Tuna distribution (summarized for releasability)

“Your” New Source Data – FY12
Join the Coalition of the Willing