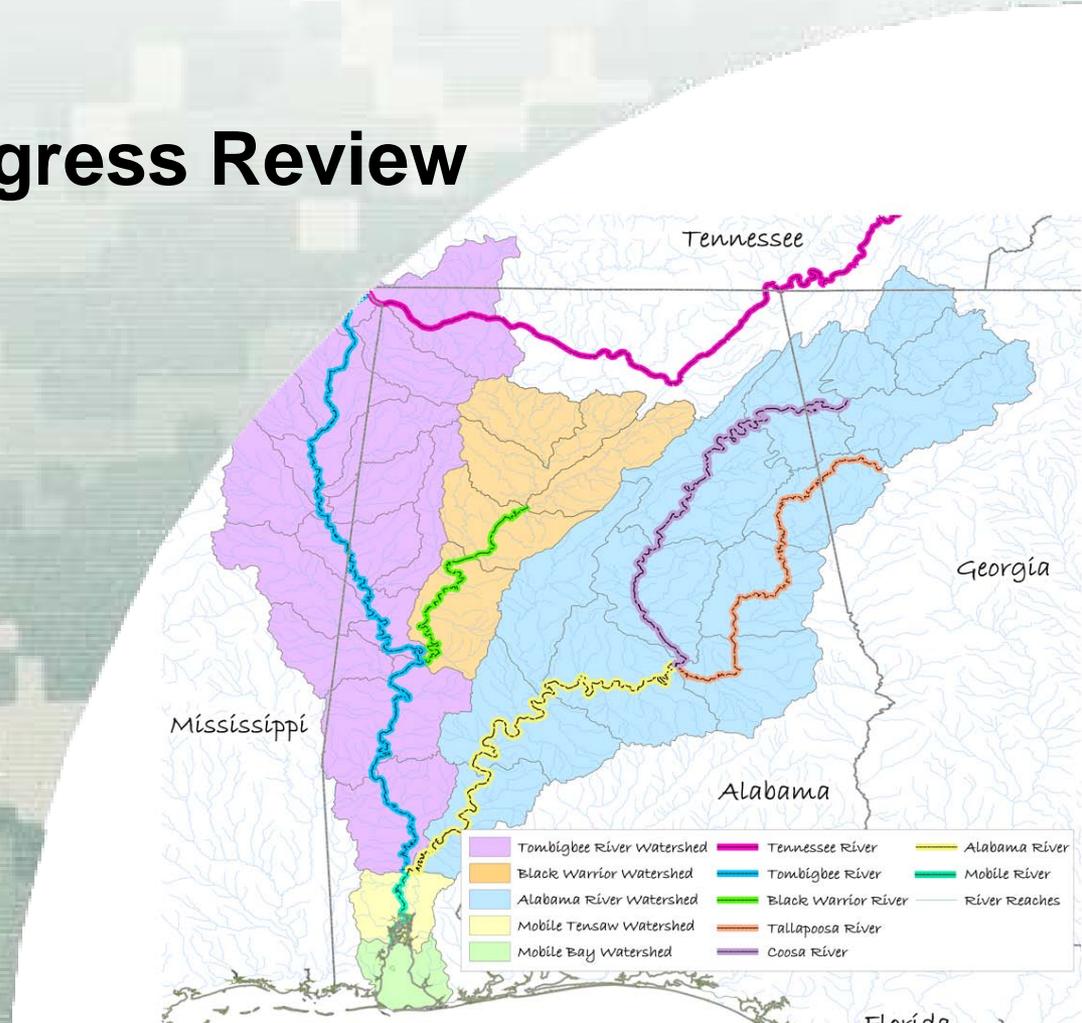


Mobile Bay Basin Watershed Demo Project

Annual RSM In Progress Review

Vicksburg, MS
August 2011



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Mobile Bay Basin Watershed Study

FY11 Tasks

- **Coordinate Activities with Operations Division**

- ▶ Assure products and tools are useful for managing Mobile Bay watershed O&M program

- **Sediment Budgets**

- ▶ Complete budgets for Mobile Bay and high priority navigation areas
- ▶ Deliver sediment budgets in SBAS format for incorporation into the RSM sediment budget repository

- **Complete Operational eBasin GIS**

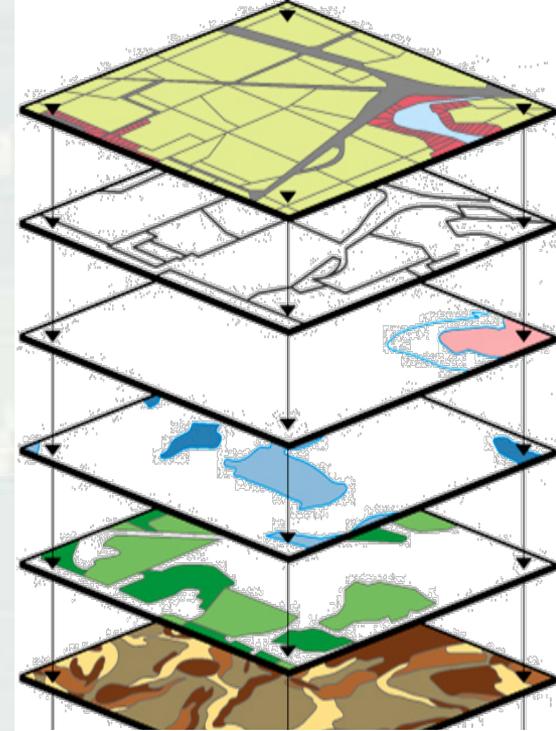
- ▶ Inventory of existing data sources
- ▶ Data management, analysis, sharing, and visualization
- ▶ Complete Technical Note

- **Operational Sulis Decision Support Tool**

- ▶ Provide ready access to natural resource information to evaluate the consequences of management decisions and natural change
- ▶ Make informed judgments with a holistic perspective
- ▶ Complete technical note

- **Complete Mobile Bay Watershed Implementation Plan**

- ▶ Identify implementable actions to be completed in FY12
- ▶ Provide plan to implementation actions



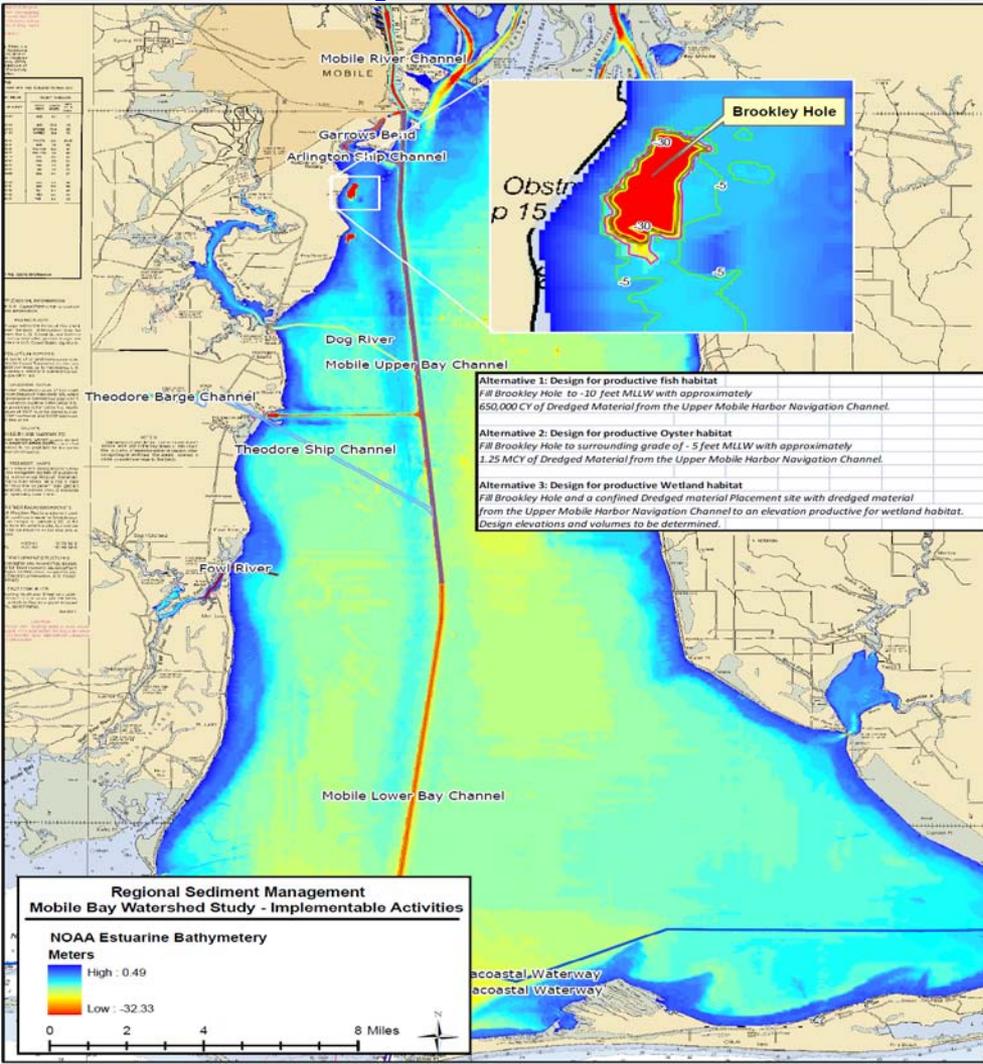
Accomplishments

- Leverage Partnerships
- Inventory ongoing modeling efforts supporting watershed resource management and populate models with existing data
- Development of sediment budgets
- Populate eBasin for data management, analysis, sharing, and visualization
- Assist in implementing decision support system applications – SULIS
- Data sharing from eCoastal, CE dredge, and eBasin into the SULIS Decision Support System.
- Workshop to identify stakeholder priority issues
- Develop preliminary Mobile Bay Implementation Plan



Mobile Bay Basin Watershed Study Recommended Implementable Actions

Brookley Hole – Near Term FY12



- Beneficial use of dredged material to fill old borrow site
- Hole is anoxic and not environmentally productive
- Fill to some level of productivity
- Coordinating with State and resource agencies
- DOER Program conducting baseline and monitoring



Mobile Bay Basin Watershed Study Potential Implementable Actions

Use of BWT disposal areas – Near Term



- Grain sizes match closely for coastal applications
- Issues
 - ▶ Undesirable color
 - ▶ Transport costs
- Dauphin Island Alabama chosen as demo site to test bleaching process



Leveraged Efforts

- Northern Gulf Institute – Mississippi State University
 - ▶ Data sharing and implementation of the Sulis decision support system applications
- Mobile Bay National Estuarine Program
 - ▶ Contributed \$100K to complete sediment budget for entire Mobile Bay
- Dredging Operations and Environmental Research Program
 - ▶ Environmental baseline characterization of Brookley Hole beneficial use area
 - ▶ Post-placement monitoring of Brookley Hole beneficial use area
- Mississippi Coastal Improvements Program (MsCIP)
 - ▶ Dauphin Island demonstration for coastal applications of BWT disposal area material

