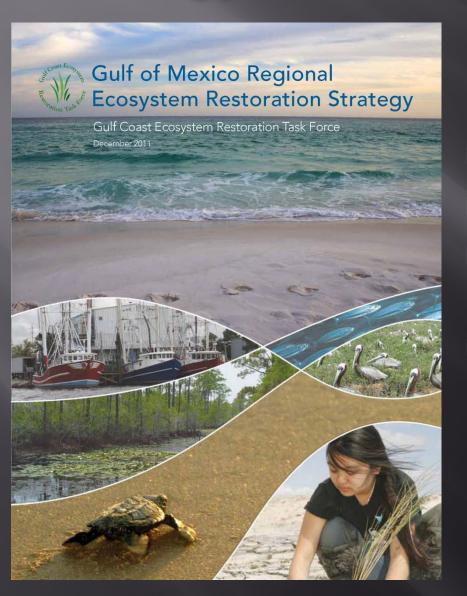


#### Strategy Released December 5, 2011



#### Strategy Goals

- Restore & Conserve Habitat
- Restore Water Quality
- Replenish & Protect Living Coastal & Marine Resources
- Enhance Community Resilience

Supported by a science and adaptive management framework

# Restore Water Quality

- Reduce nutrient input
  - State ManagementNutrient Plans
  - Target PriorityWatersheds
- Reduce pathogens & pollutants
- Improve Quantity & Quality for Estuaries (freshwater inflow)
- Expand monitoring



# Science -> Strategy -> Implementation

- Identifying Needs:
  - Monitoring
  - Modeling
  - Research
- Foundational Elements for Implementation
- Science Plan
  - Adaptive Management

	Habitats (coastal)	Habitats (inland) and watersheds	Living coastal and marine resources and offshore environments	Coastal communitie (including storm buffers)
Physical				
Sediment, nutrient, pollutant loads, and freshwater flow rates	х	Х	х	х
Land:water ratios	х	Х	х	х
Topography/bathymetry	x	х	x	х
Shoreline position and form and dimensions of beaches and dunes and barrier islands	×		x	х
Erosion and accretion rates	х			х
Seafloor change	x	х		
Hydrology (water surface elevation, current velocity, wave characteristics, salinity, temperature)	х	х	х	х
Meteorology	x		х	
Air quality		х	x	
Marsh elevation (accretion, subsidence, sediment elevation table)	х		х	х
Relative sea-level rise rates (subsidence and global sea-level rise)	х	х	х	х
Geodetic vertical datum	х	х		х
Biological				
Invasive species	х		x	
Fisheries composition/abundance/diversity/productivity/tissue contaminants	x		X.	
Fisheries landings			x	х
Wildlife and living marine resources abundance/diversity and distribution (including sentinel species)	х	х	x	
Plant community composition/abundance/diversity/productivity	х	х	x	
Benthic macroinvertebrates or key benthic assemblages	×		x	
Phytoplankton, harmful algae species occurrence, toxin production	х	х	x	
Zooplankton	х		x	
Pathogens	×	x	x	
Microbial ecology		х	x	
Chemical				
Water quality (nutrients, ammonia, silica, turbidty, total suspended solids, water clarity, contaminants [e.g. PAHs, PCBs], metals, dissolved oxygen, salinity, temperature, depth, conductivity, secchi depth, photosynthetically active radiation, pH, chlorophyll a, carbon)	х	х	x	
Coastal, nearshore and offshore seafloor sediment characteristics (sediment composition, bulk density, organic matter, total carbon, total nitrogen, phosphorous, grain size, total organic carbon, sediment toxicity)	х	х	x	

# What's Next? Strategy -> Implementation

GCERTF OFFICE AT

STENNIS SPACE CENTER





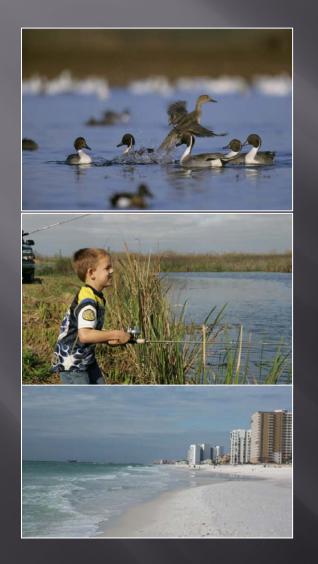
### **Gulf Restoration Funding**

#### Funding Undetermined:

- RESTORE Act
- NRDA restoration funding
- Some type of settlement
- Annual appropriations
- Planning needs to precede funding



#### Shifting Focus: IMPLEMENTATION



#### Transition Period

- ☐ Identify GCERTF staff and support for Stennis office
- Engage with GOMA and Gulf coast stakeholders
- ☐ Re-engage Task Force members
  - States & Federal Agencies
- Continue coordination with NRDA process
- Develop process for Strategy Implementation Plan

#### Implementation Plan: Science

- Adaptive management framework
  - ☐ Monitoring, modeling, and research
- GoM Ecosystem Science
   Assessment and Needs by
   GCERTF Science
   Coordination Team
   contains a Science Plan
   which will be expanded

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GULF COAST ECOSYSTEM RESTORATION TASK FORCE

Gulf of Mexico Ecosystem Science Assessment and Needs

March 2012



Gulf Coast Ecosystem Restoration Task Force Science Coordination Team (SCT)

> Edited by: Dr. Shelby Walker (NOAA, SCT Lead) Dr. Alyssa Dausman (USGS, SCT Lead) Dr. Dawn Lavoie (USGS, SCT Lead)

# Implementing Monitoring

- Developing Strawman for monitoring program or with Gulf representatives (State and Federal)
- □ A tiered framework for nutrient monitoring will be included
  - □ What/Where are the needs?
  - □ What do we have?
  - □ Where are the gaps to invest resources?
- Gulf Monitoring Workshop at National Water Quality Monitoring Conference



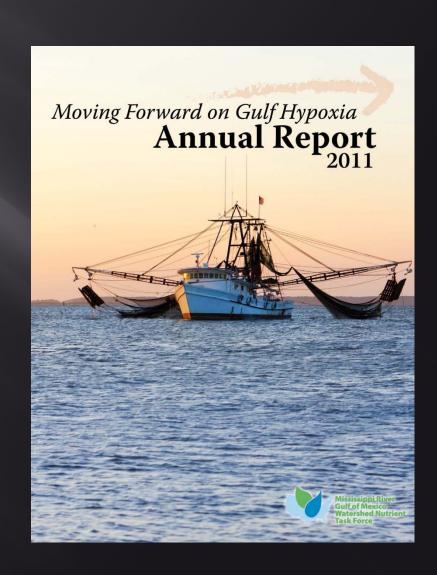




#### **NEXT STEPS on Implementation**

#### HOW DO WE ENGAGE WITH CURRENT HYPOXIA WORK?

- GCERTF is intergovernmentalstrength (11 Fed Agencies + 5 States)
- Hypoxia TF
- Where do our all our goals overlap? (Water Quality Chapter)
- How do you want to be engaged in developing the Implementation Plan?
- How do we work together better? Ideas? Coordinate without overlapping.



# DISCUSSION