



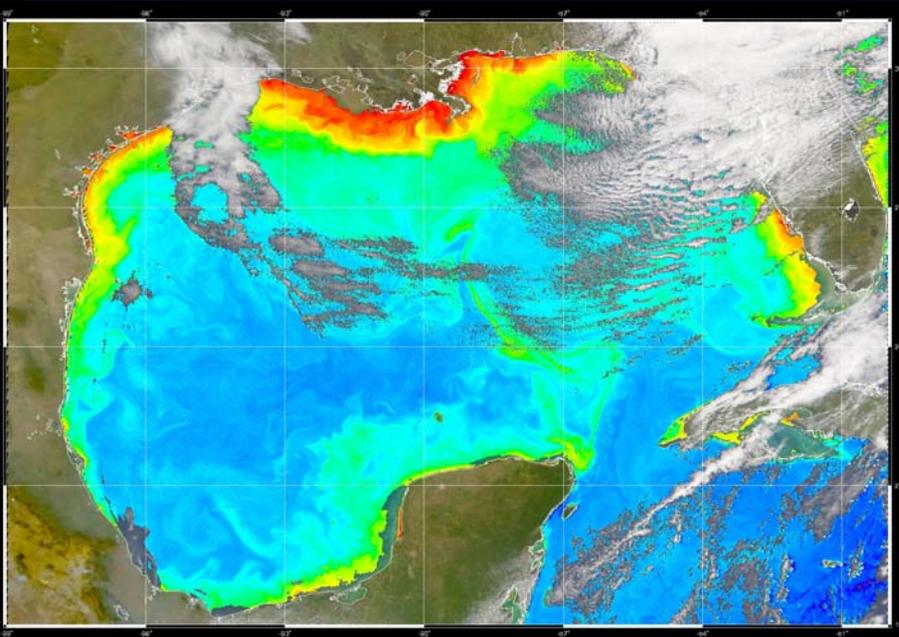
**Implementing the U.S. Ocean Action Plan
in the Gulf of Mexico
Meeting of the Gulf of Mexico States and Federal Officials**

June 9, 2005

GULF OF MEXICO ALLIANCE



Nutrient Nutrient Reductions Reductions



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Mississippi Department of Environmental Quality



Problem Statement / Goal:

Nutrient Nutrient Reductions Reductions

Introduction of excess nutrients into the estuaries and waters of the Gulf is one of the primary problems facing the Gulf States.

- 57% of estuaries impaired by excess nutrients
- 40% of total estuarine surface area in US exhibit degraded eutrophic conditions
- Hypoxia
- Habitat loss



Strengths & Progress:

Nutrient Nutrient Reductions Reductions

- **Mississippi River/Gulf of Mexico Watershed Nutrient Task Force**
- ***Action Plan for Reducing, Mitigating and Controlling Hypoxia in the Northern Gulf of Mexico (2001)***
- ***A Science Strategy to Support Management of Decisions Related to Hypoxia in the Northern Gulf of Mexico and Excess Nutrients in the Mississippi River Basin***
- **2000 Farm Bill**



Strengths & Progress:

Nutrient Nutrient Reductions Reductions

▪ Texas

- Extensive coastal WQ baseline data
- Coordinated sampling system

▪ Alabama

- Sub-watershed priority areas
- Monthly coastal and upland sampling stations
- NPS intensive watershed assessments
- Volunteer monitoring network



Strengths & Progress:

Nutrient Nutrient Reductions Reductions

▪ Louisiana

- NPS program nutrient BMPs
- 303(d) list used by State Technical committee for priority area selections

▪ Mississippi

- Coordinated multiphase sampling approach
- Established active “Basin Teams” in the three coastal watersheds



Strengths & Progress:

Nutrient Nutrient Reductions Reductions

- **Nutrient WQ criteria development**
 - Texas
 - ✓ Issued draft “Nutrient Criteria Development Plan”
 - ✓ Plans for draft criteria proposal by end of 2005
 - ✓ Expects to implement by 2010
 - Alabama
 - ✓ Developing nutrient criteria for 24-40 reservoirs
 - ✓ Next will focus on (1) streams and rivers and (2) coastal and estuarine areas
 - Louisiana
 - ✓ Completed plan for developing nutrient criteria



Strengths & Progress:

Nutrient Nutrient Reductions Reductions

- Florida

- ✓ **Developing nutrient criteria for lakes and streams**

- Identifying reference areas,
- Collecting relevant historical data and assessing its quality
- Developing a nutrient/DO monitoring study to fill data gaps

- Mississippi

- ✓ **Collecting data for nutrient criteria development**
- ✓ **Established a 15 member Task Force**
- ✓ **Using a ecoregion approach to development**
- ✓ **Have identified data gaps and approaches to fill**



Nutrient Nutrient Reductions Reductions

Barriers / Challenges:

- Difficult to differentiate cultural eutrophication from natural conditions
- Point Source, NPS, and atmospheric nutrient sources are highly variable
- Many sources are from upstream states
- Data
 - Insufficient to adequately characterize nutrient & biological conditions
 - Most monitoring is at local level
 - ✓ Creates potential for data incomparability
- STORET
 - Insufficient quality
 - Insufficient metadata



Barriers / Challenges:

- **NEED ASSESSMENT TOOLS**
 - **Bioassessment tools**
 - **Relationship between land use & nutrient problems in coastal waters.**
- **Farm Bill**
 - **Better utilize these resources**
- **Rapidly growing coastal population**
 - **Increase in nutrient loading**
- **Many state agencies monitoring**
 - **Data not in central location**
- **Lack of funding limits monitoring programs**

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Nutrient
Reductions
Reductions



Priority Needs:

Nutrient Nutrient Reductions Reductions

- Resources

- Monitoring – nutrients and biological
- Development of nutrient criteria & biological response criteria
- Coordinate efforts to ensure consistency
 - ✓ **Nutrient criteria workshops**
- Tools to understand land use relationship to nutrient issues



Priority Needs:

Nutrient Nutrient Reductions Reductions

- Implement nutrient source reduction measures
 - **2000 Farm Bill**
 - **Ag nutrient reduction**
 - **WWTP upgrades**
 - **Urban stormwater management**
- Collaboration between feds and states
 - **Support Action Plan**



Priority Needs:

Nutrient Nutrient Reductions Reductions

- Fund environmental lands acquisition programs
 - **Establish urban buffers**
 - **Build filter marshes**
- Better standard practices for stormwater systems w/federal highway program
- Pair restoration priorities with WQ & wetland mitigation needs



Priority Needs:

Nutrient Nutrient Reductions Reductions

- Comprehensive, coordinated effort to evaluate & prioritize nutrient issues
- Develop strategies/attain resources to reduce excess nutrients
- Funding for nutrient load abatement & monitoring
 - **More & better WQ & habitat data**



Priority Needs:

Nutrient Nutrient Reductions Reductions

- Study downstream effects of nutrient loading
- Address shared waterbodies
- Improve WQ monitoring methodology
- Mesh WQ monitoring programs with biological monitoring programs
- Central repository for Gulf-wide nutrient related data

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Priority Needs:

Nutrient Nutrient Reductions Reductions

- Retain support from:
 - Gulf of Mexico Program
 - National Hypoxia Task Force
 - Lower Mississippi River Conservation Committee

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Questions / Clarifications?

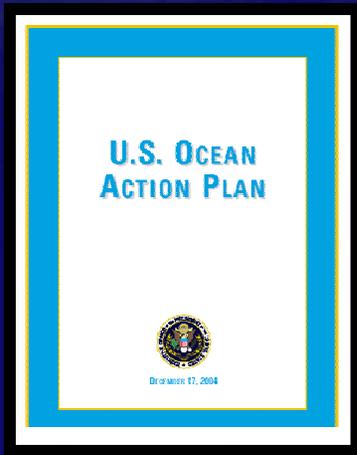
**-FEDERAL PARTNERSHIP RESPONSE –
“Early Concepts/Proposals for Interest”**



Nutrient Reductions Nutrient Reductions

-  CEQ
-  EPA
-  NOAA
-  DoI
-  USDA
-  ACOE
-  DHHS
-  NASA
-  DoE
-  DOD
-  NSF
-  DoS
-  DoT

Partnership Development Co-Leads:



Bryon Griffith

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U.S. EPA Gulf of Mexico Program Office

Jack Hayes, Ph.D.

Deputy Assistant Administrator
Ocean and Coastal Zone Management
NOAA National Ocean Service

**-FEDERAL PARTNERSHIP RESPONSE –
(Team Support Framework)**



	CEQ
	EPA
	NOAA
	DoI
	USDA
	ACOE
	DHHS
	NASA
	DoE
	DOD
	NSF
	DoS
	DoT

Nutrient Reductions Nutrient Reductions

Co-Leads:

Technical / Resource
Support:

