



Integrated Assessment and Management of  
the Gulf of Mexico Large Marine Ecosystem



## Integrated Assessment and Management of the Gulf of Mexico Large Marine Ecosystem

GULF OF  
mexico LME

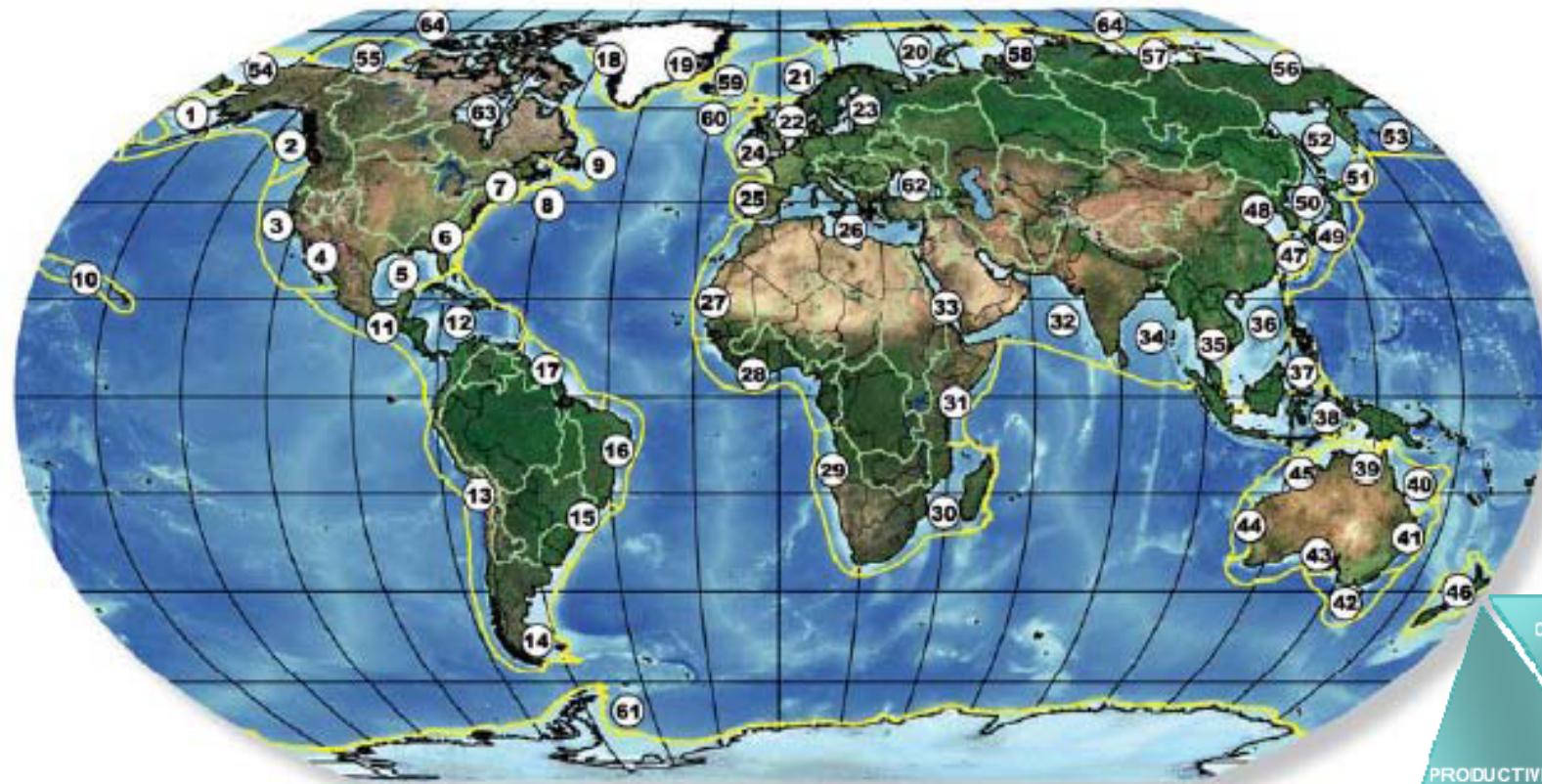


**2º International Meeting on Sustainable Watersheds**  
**September 29th, 2010**

**Porfirio Álvarez-Torres, Ph. D.**  
**Chief Technical Advisor**

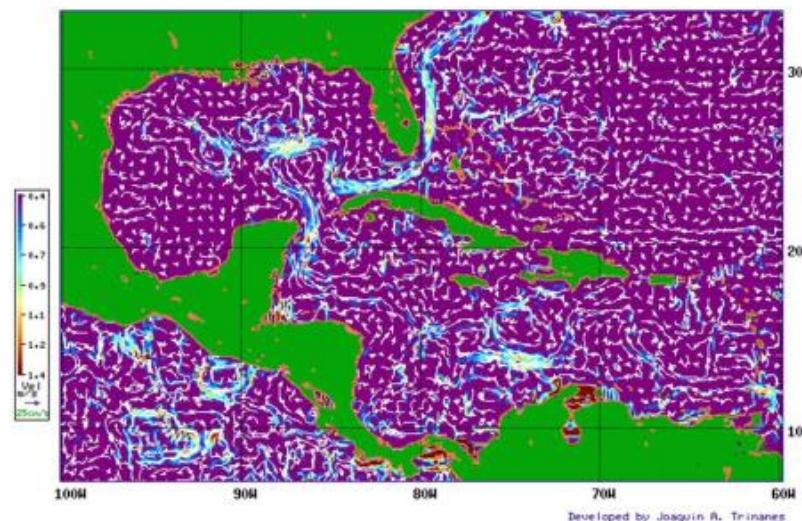
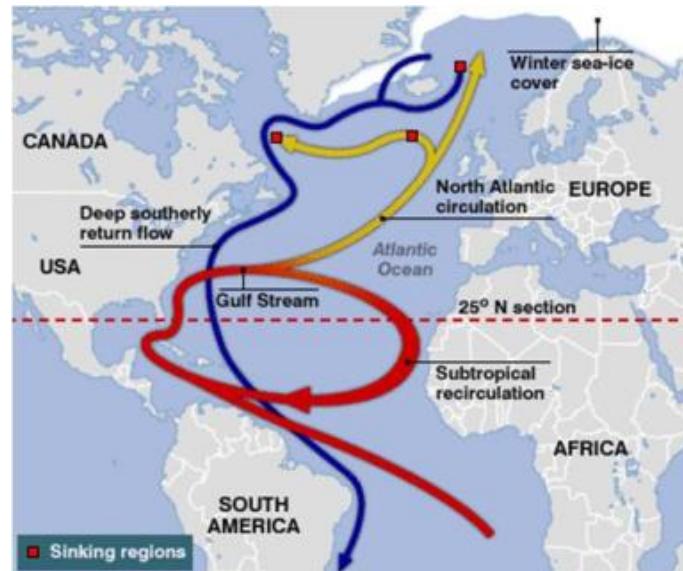


## *Large Marine Ecosystems of the World and Linked Watersheds*

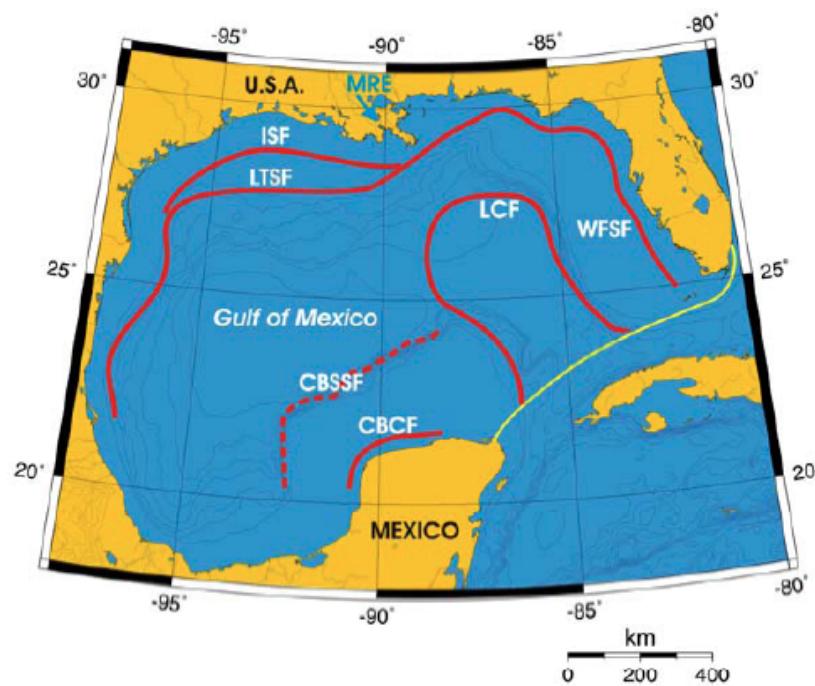


# Foro Regional Internacional

Evaluación y Manejo Integral del Gran Ecosistema Marino del Golfo de México  
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## Transboundary Connectivity



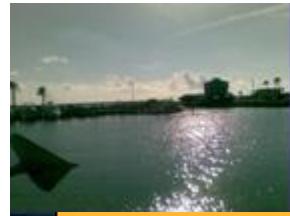


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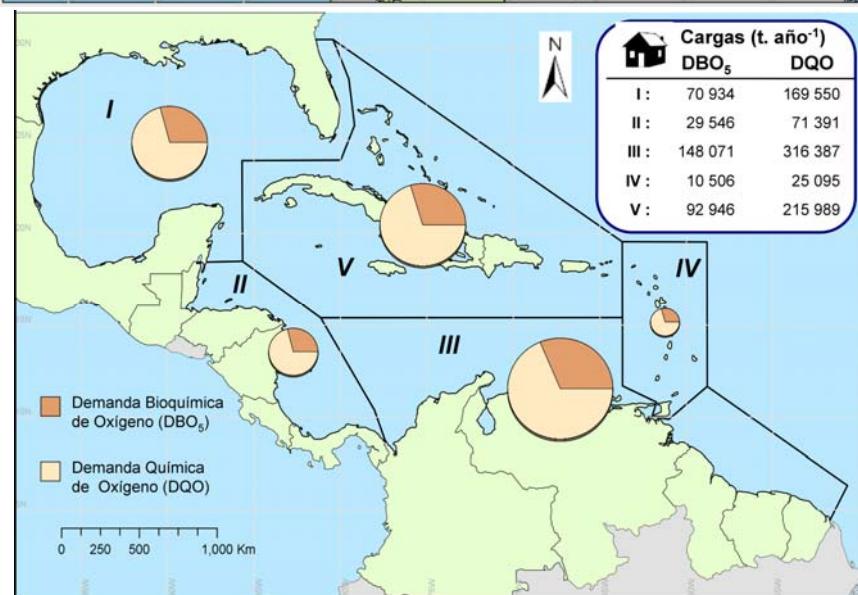
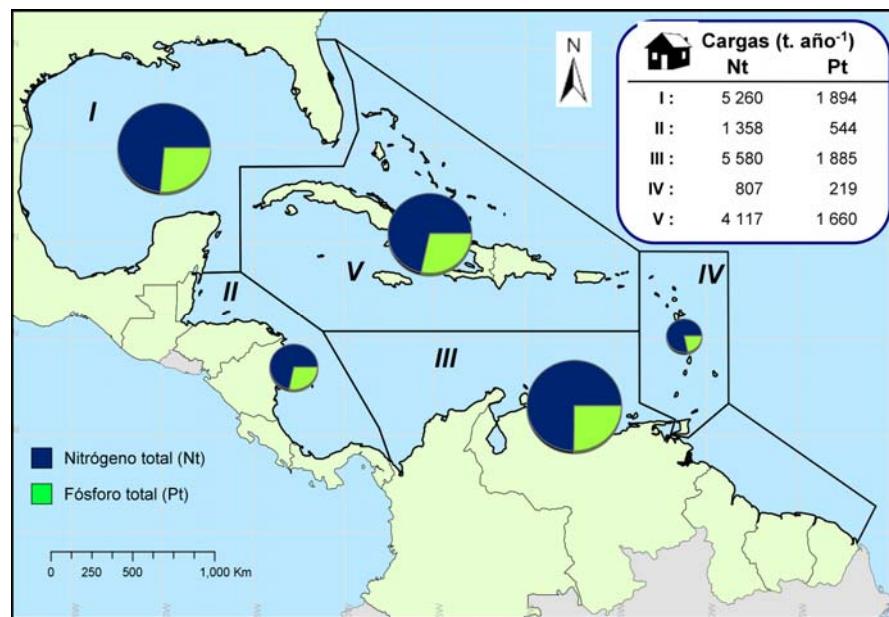
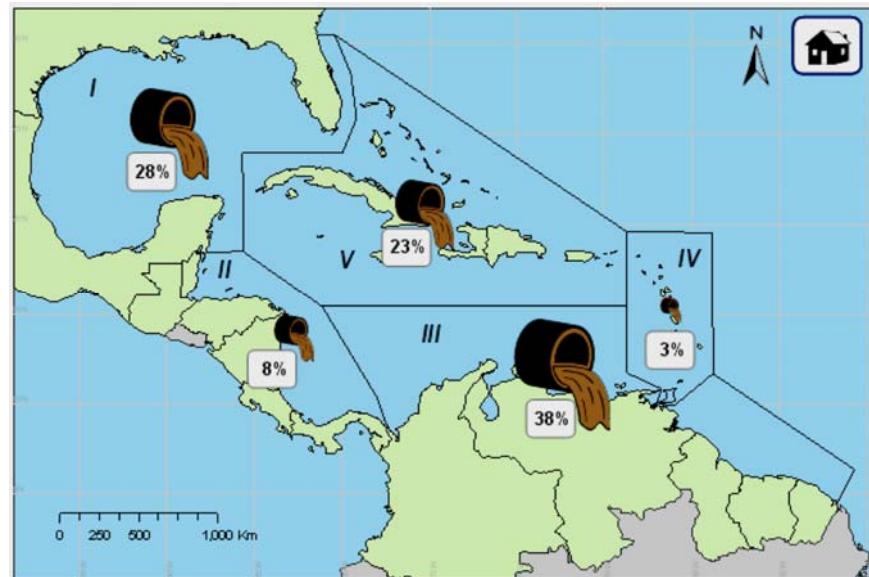
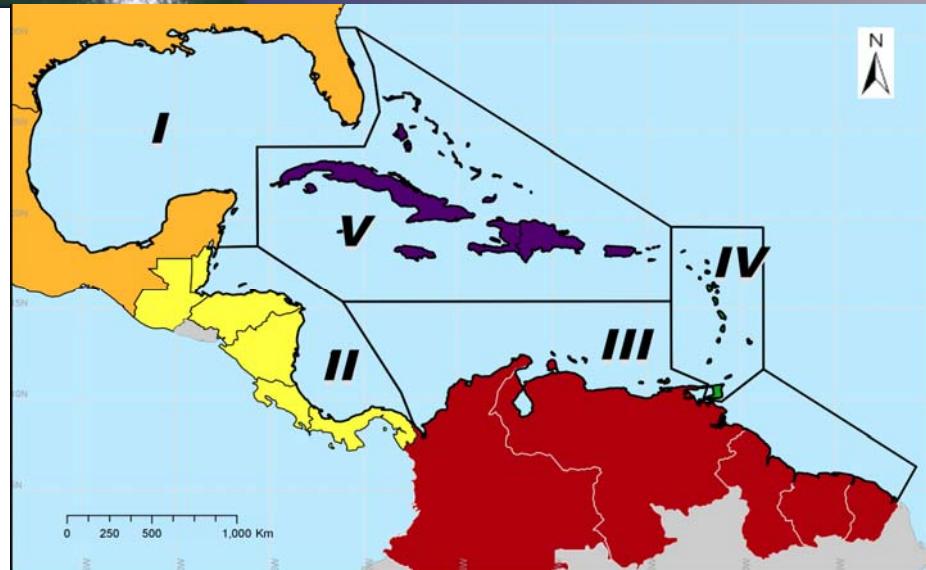


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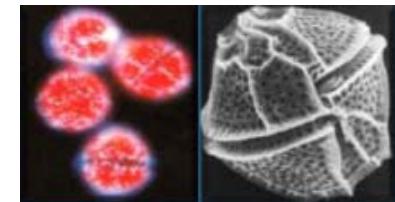


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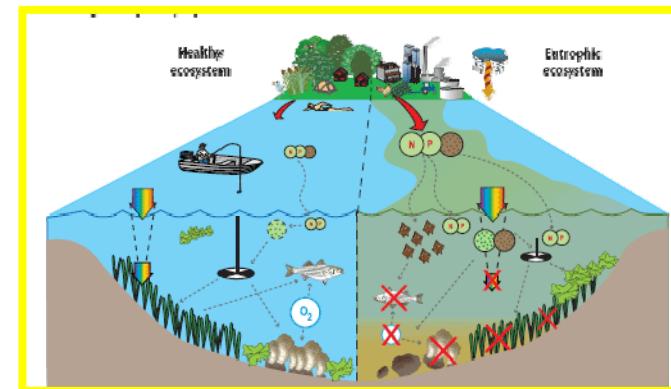


## Main Problems Prioritized in the Gulf of Mexico LME

Eutrophication, dead zones, HAB's & Red Tides



Habitat modification (loss of mangrove areas, connectivity and resilience)



Overexploitation of Marine Living Resources  
(Decreasing of fisheries resources)

Mono-specific management, and lack of ecosystem approach

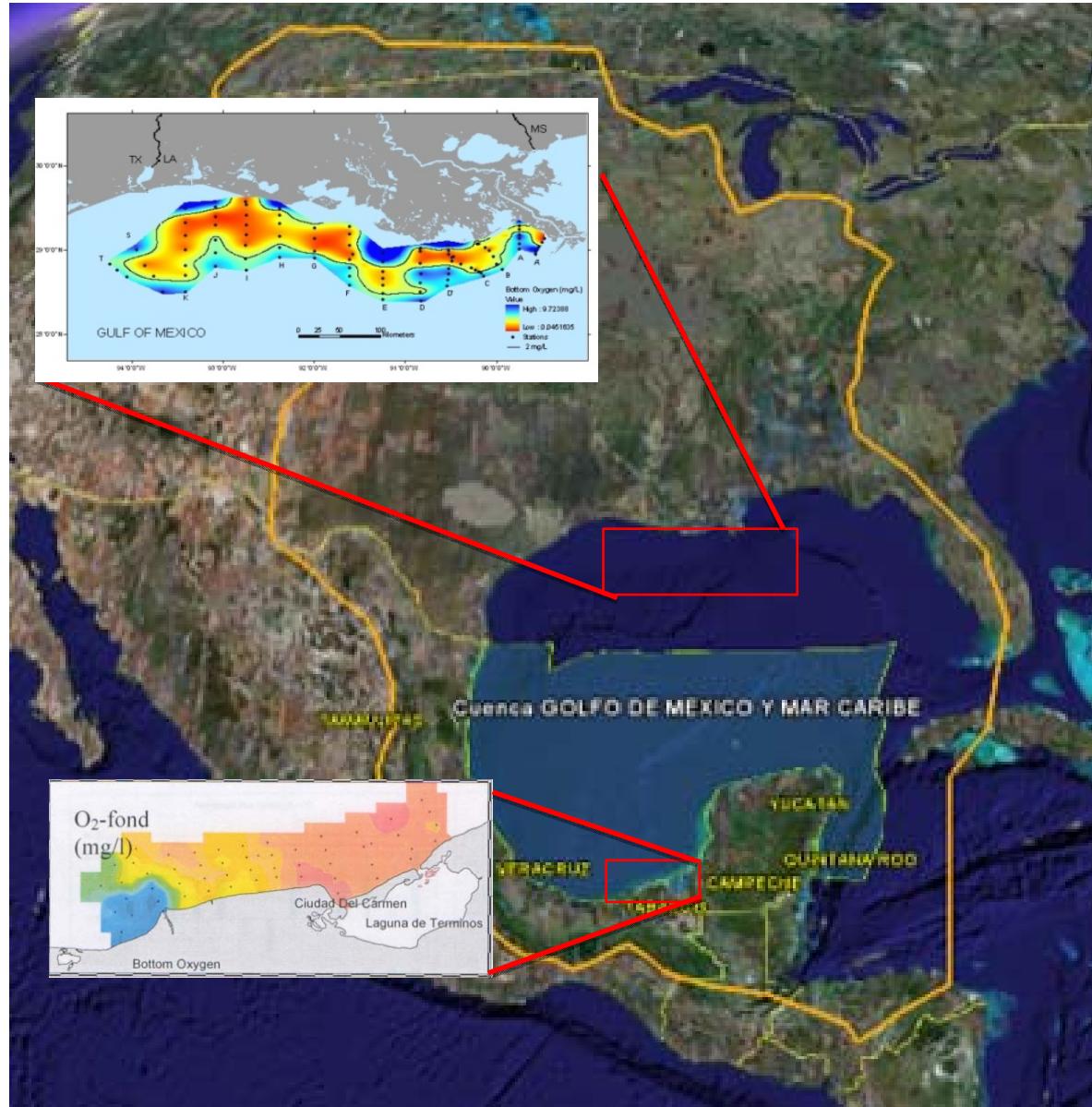


Deficient assessment of environmental goods and services





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## GoM-LME Project Main OBJECTIVES and SAP/NAP construction

Reduction of pollutants and excessive nutrient loads

Recovery of over-exploited marine resources

Rehabilitation of marine and coastal ecosystems

## SAP/NAP IMPLEMENTATION

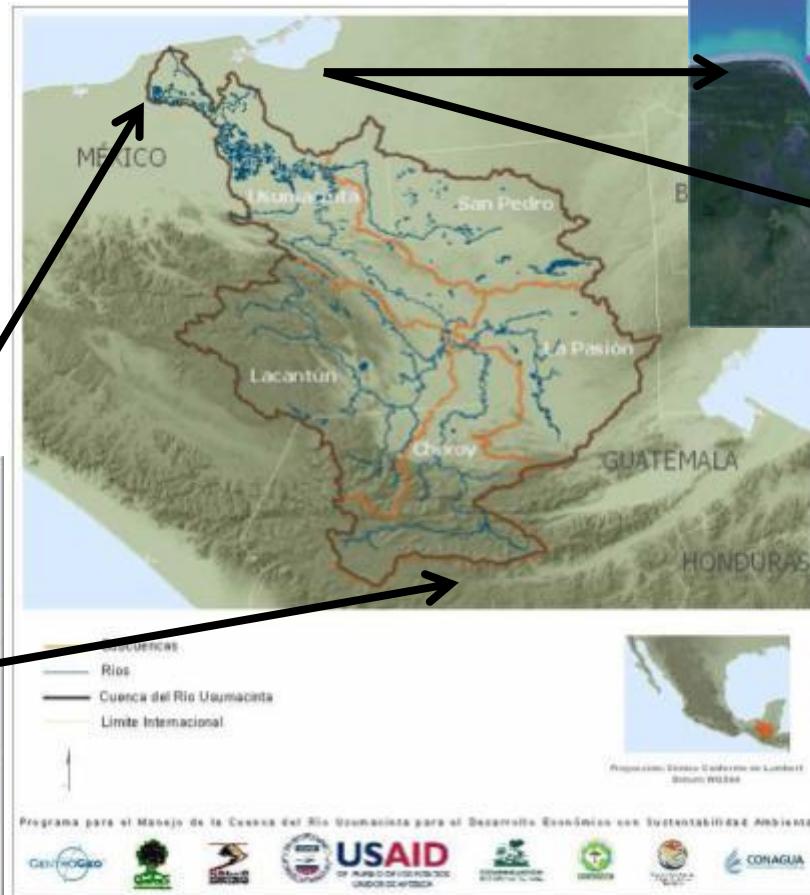




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## Grijalva-Usumacinta River Basin





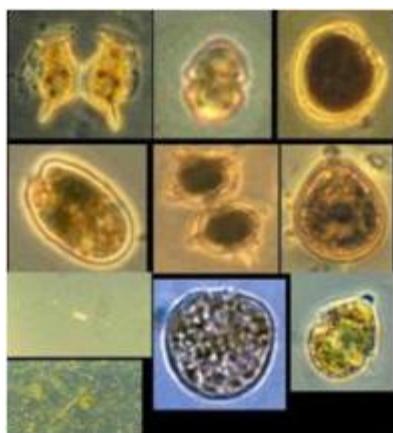
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## “HABs, Join Monitoring Program Mex-US”



**HABIOS**  
**(Harmful Algal Bloom Integrated Observing System)**  
**IOC-UNESCO**  
**(Intergovernment Oceanographic Commission on Harmful Algal Bloom Program)**





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### Goal:

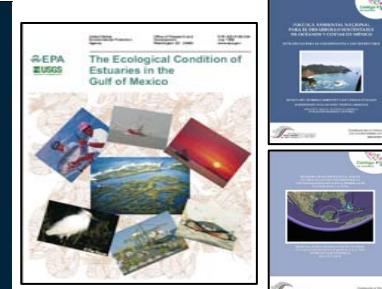
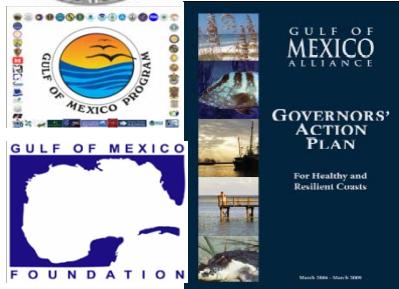
Strategic Action Program (SAP) &  
National Action Programs (NAPs)

Endorsed by both

### FASE 2: SAP/NAP IMPLEMENTATION (2013 →→ )



### GULF OF MEXICO ALLIANCE





## Integrated Assessment and Management of the Gulf of Mexico Large Marine Ecosystem



DESDE  
LAS RÍOS  
HASTA EL OcéANO  
DE MÉXICO

FROM  
THE RIVERS  
TO THE GULF  
OF MEXICO

27 al 28 de junio de 2013  
Mérida, Quintana Roo, México





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E-News Bulletin  
Gulf of Mexico  
Large Marine Ecosystem  
(GoM LME)



Year 1. No. 02  
April - May 2010

*Gracias*