Deepwater Horizon

Credit: US Chemical Safety Board
Deepwater Horizon

Credit: AP Photo/Charlie Riedel

Credit: SAUL LOEB/AFP/Getty Images
GoMRI ADMINISTRATIVE UNIT

Gulf of Mexico Alliance
- GoMRI program management
- Budget and finance reporting

Ocean Leadership
- Program management support
- Manage peer review proposal process
- Perform communications and outreach
- Provide website management
- Administer research grants (Grants Unit)

Harte Research Institute
- Manage accessible database

Northern Gulf Institute
- Website and information support
- Communications and outreach support
Mission

The mission of Gulf of Mexico Research Initiative (GoMRI) is to implement an independent research program that will

(1) Study the effects of the *Deepwater Horizon* incident and the potential associated impact of this and similar incidents on the environment and public health and

(2) Develop improvements for spill mitigation, oil detection and characterization, and advanced remediation technologies.
Research Themes

1. Physical distribution and ultimate fate of contaminants associated with the Deepwater Horizon incident;
2. Chemical evolution and biological degradation of the contaminants;
3. Environmental effects of the contaminants on Gulf of Mexico ecosystems, and the science of ecosystem recovery;
4. Technology developments for improved detection, characterization, mitigation, and remediation of offshore oil spills; and
5. Impacts of oil spills on public health.
All Funded Research to Date

- **Year One Block Grants** – $50M, 149 Projects (in progress)

- **Summer 2011 Bridge Grants (RFP III)** – $1.5M, 17 Projects (completed)

- **Year 2–4 Consortia Grants (RFP I)** – $112.5M, 8 RC (in progress)

- **Year 3–5 Investigator Grants (RFP II)** – $22.5M, 19 projects (in progress)

- **In the past two years** (as of June 30, 2012)
  - approximately 55 scientific peer-reviewed publications
  - over 200 manuscripts in preparation or submitted for peer review
  - over 350 presentations and poster sessions given at conferences and scientific meetings
8 Projects

What is studied

Dispersion by physics and plankton, behavior and hydrocarbon transformation of deep oil spills, influences on fate and transport, environmental consequences, ecosystem impacts, oil plume fate, ecotoxicology, improved dispersants, modeling of fate, transport, and ecosystems.

Large multi-year, multi-institution, research consortia addressing the mission and themes of GoMRI.
$178 \text{ MM} 110 \text{ Institutions}
32 \text{ states, 6 international}

Gulf States / Other States / Intl

- Gulf States, $131,112,126, 75%
- Other States, $40,716,141, 23%
- International, $3,732,388, 2%

Gulf States

- LA, $35,302,683, 27%
- FL, $48,142,219, 37%
- MS, $20,330,407, 15%
- TX, $18,687,576, 14%
- AL, $8,649,241, 7%
(GRIIDC) is the vehicle by which is implementing the Research Database and will help to address the data and information needs of the GOMRI. The GRIIDC will serve the GoMRI by assisting researchers with data archiving and ensuring data interoperability among GoMRI and other datasets.

The mission of the GRIIDC is to ensure a data and information legacy that promotes continual scientific discovery and public awareness of the Gulf of Mexico ecosystem.
OUTREACH, EDUCATION AND COMMUNICATION

- WEBSITE
- PODCASTS
- MEDIA EVENTS
- FESTIVALS, AQUARIA AND PUBLIC VENUES
- NEWS STORIES
Gulf of Mexico Oil Spill & Ecosystem Science Conference & GoMRI Annual Meeting

Open Science Conference - Jan 21-23, 2013
GoMRI Annual Meeting - Jan 24, 2013
www.gomri.org
New Orleans Marriot, New Orleans, LA

Sponsors and Partners
GoMRI, SOST, NSF, NOAA, NIEHS, NASA, USGS, FDA, GOMURC, GOMA, COL COE?
GoMRI RFP I CONSORTIA

Center for Integrated Modeling and Analysis of Gulf Ecosystems (C-IMAGE)
  PI: Steven Murawski — University of South Florida, Department of Marine Science

Consortium for Advanced Research on Transport of Hydrocarbon in the Environment (CARTHE)
  PI: Tamay Özgökmen — University of Miami, Rosenstiel School of Marine and Atmospheric Science

Consortium for the Molecular Engineering of Dispersant Systems (C-MEDS)
  PI: Vijay John — Tulane University, Department of Chemical and Biomolecular Engineering

Deepsea to Coast Connectivity in the Eastern Gulf of Mexico (DEEP-C)
  PI: Eric Chassignet — Florida State University, Center for Ocean-Atmospheric Prediction Studies (COAPS)

Dispersion Research on Oil: Physics and Plankton Studies (DROPPS)
  PI: Edward Buskey — The University of Texas at Austin, Department of Marine Science

Ecosystem Impacts of Oil and Gas Inputs to the Gulf (ECOGIG)
  PI: Raymond Highsmith — University of Mississippi, National Institute for Undersea Science and Technology

Gulf of Mexico Integrated Spill Response Consortium (GISR)
  PI: Piers Chapman — Texas A&M University, Department of Oceanography

The Effects of the Macondo Oil Spill on Coastal Ecosystems (LUMCON)
  PI: Nancy Rabalais — Louisiana Universities Marine Consortium, DeFelice Marine Center