



Traditional Ocean Energy: Oil and Gas

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NOAA's Role in Planning, Preparedness, Response and Restoration

- What I was going to talk about:
 - New areas of Exploration and Production
 - Arctic
 - Deep well drilling in the Gulf
 - New proposed leases (VA and FL)
 - Aging Infrastructure
 - Improvements and Gaps in Tools and Services
 - Our New Reality “The Instant World”



Selendang Ayu, AK



NOAA's Role in Planning, Preparedness, Response and Restoration

- What I am going to talk about:
 - Deep well Deepwater Horizon MC252
 - How NOAA Tools and Services have contributed to the response and what are learning with respect to our role in Traditional Oil and Gas development, production, transportation and spills.



Deepwater oil rig fire



NOAA's Response

Office of Response and Restoration (OR&R)

- Scientific support to the U.S. Coast Guard and Unified Command
- Emergency Response Division (ERD)
 - Predict oil fates and effects
 - Identify resources at risk
 - Manage data and information
 - Overflight observations and mapping
 - Recommend appropriate clean-up methods
- Assessment and Restoration Division (ARD)
 - Plan for assessment of injuries to natural resources
 - Coordinate with state and federal trustees



Deepwater aerial



NOAA's Response

National Weather Service (NWS)

Incident weather forecasts including marine and aviation

National Environmental Satellite, Data, and Information Service (NESDIS)

Experimental imagery for spill trajectory forecasts

Data Visualization

National Marine Fisheries Service (NMFS)

Issues related to marine mammals, sea turtles, and fishery resources
Public Affairs support to the Joint Information Center

Seafood Safety

Fisheries closures



NOAA's Response

Office of Marine and Aviation Operations (OMAO)

USCG Liaison to the DCO Incident Support Team USCG Headquarters
Aircraft and vessel support

Oceanic and Atmospheric Research (OAR)

Oceanographic and atmospheric modeling and data support.
Gulf of Mexico Sea Grant programs providing technical advice on
impacts to living resources and coastal communities.

National Ocean Service (NOS)

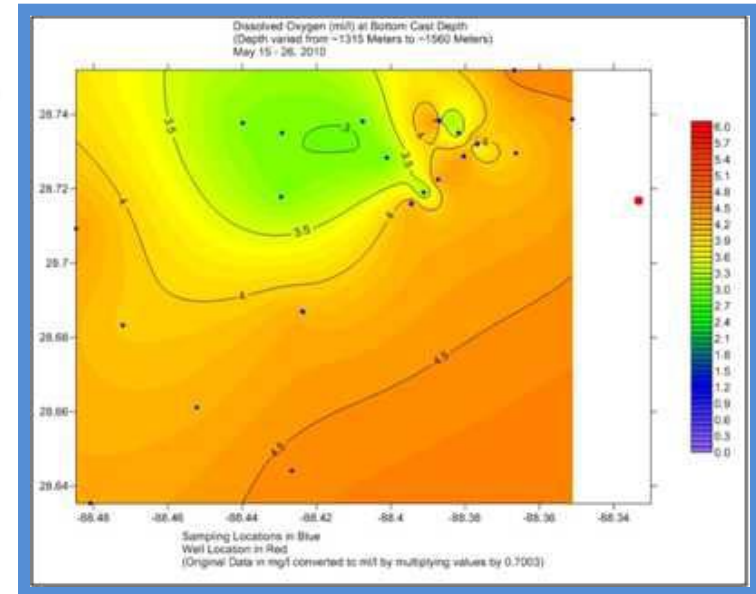
Support from ONMS for staffing and technical information
Oceanographic modeling support
Public Affairs support to Joint Information Center



What have been some of the issues in this response

Subsurface

- Flow Rate
- Use Subsurface dispersants
- Fate and Effect of oil rising up from the bottom
- Potential biological impacts of subsurface oil



What have been some of the issues in this response Surface

- Fate and Effect of oil on surface
- Movement of oil by wind and current
- LOOP Current



Plane spraying oil dispersant



What have been some of the issues in this response

Surface

- Ecosystem impact of oil as well as removal
 - Mechanical
 - In Situ burns
 - Surface Dispersants
- Hurricanes



Deepwater controlled burn



What have been some of the issues in this response Shoreline

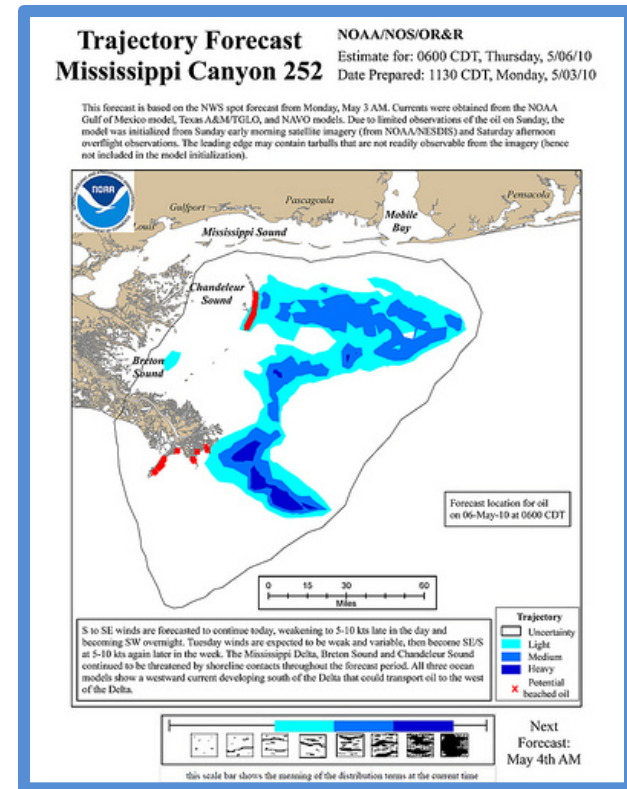
- Protection strategies
- SCAT Teams
- Different types of Shoreline Clean Up
- Damage Assessment



Our New Reality

“The Instant World”

- Our Trajectories and other tools
- Web site hits
- Data Management
- Geospatial Information
 - www.Geoplatform.gov



Spill Trajectory



Questions



Boom operations in the Gulf of Mexico

