

Presented to:

Identification and Discussion of Collaborative Research Projects

Russ Beard, NCDDC Nov. 1, 2010



Weekly DWH Quad Chart



Gulf Region Functional Team: Meeting NOAA Mission Expectations



DWH Strategic Goals Supported by Regional Performance Measures

- Protect Wildlife and Habitat from the Impact of the DWH Incident and conduct activities that support ecosystem recovery; Restore Ecosystem Services to the Region
 - Action 4 Effective completion of project related work that supports ecosystem recovery (e.g., EFH/ESA consultations; GOMA related project work) (PM5)
 - Action 6 Collaborate/exchange data information on key issuinside and outside of NOAA (PM7)
- Conduct Science and Provide Environmental Information t insure the Best Response Decisions are made in the DWH Incident

•Action 5 - Effectively process and manage data (PM6)



Performance Measures

Measure	To Date	This Report Period	Target
PM5 - Number and percent timely response to program related actions that support long-term recovery	<u>21</u> 100%	<u>0</u> 100%	90%
PM6 - Weekly processing of CTD casts, including QA/QC and associated metadata	<u>1589</u> 95.3%	<u>27</u> 100%	90%
PM7 – Workshops to identify, catalogue, and track key regional issues to inform NOAA Leadership	7	0	5+ summary whitepape 9/30/10

Report Date: October 16 - 19, 2010

Key Activities/Issues/Risks



 Conductivity-Temperature-Depth (CTD) casts processed, including QA/QC and associated metadata (PM6)

NORR

NOAA Office of General Counsel



Objectives

- Natural Resource Damage Assessment and Restoration: Support components
 of NOAA involved in assessment of injury to natural resources and restoration
 planning.
- Enforcement and Seafood Safety: Provide legal support to ensure public safety and consumer confidence in Gulf seafood, including development of enforcement cases.
- Fisheries: Provide legal support related to fisheries re-openings and potential changes to Fishery Management Plans related to spill effects.
- Legislation, Regulations, and Interagency Affairs: Provide analysis regarding proposed legislation and other approaches to prevent and address future oil spills and restoration after the DWH spill.
- Response/Operations: Provide legal support in aid of response activities, including budget issues and other authorities.
- Miscellaneous: Provide prompt response to a wide range of questions related to the DWH spill, including FOIA requests.

to the BWTTSpill, including FOIA requests.					
<u>Schedule</u>					
Objectives	Sept	Oct	Nov		
Effective, thoughtful, and prompt completion of requests for legal advice – Ongoing.		-	<u> — Л</u>		
Provide effective legal support for early- action and long-term natural resource damage assessment and restoration - Ongoing.		4	Δ		
Process enforcement cases and issue Notices of Violation immediately upon receipt from the NOAA Office of Law Enforcement.		—			
Provide effective legal support to ensure timely response to FOIA requests – Ongoing.		-			
Provide legal support for fisheries reopenings.		-	<u> </u>		
Milestone Completed Milestone at Risk M	ilestone Missed	Mileston	e on Track		
Report Date: October 20, 2010					

Key Issues for Discussion

- Natural Resource Damage Assessment and Restoration:
 Short-term
 - Continue to assist with planning for regional outreach meetings to explain the damage assessment and restoration process and to solicit the public's views on restoration approaches.
 - Obtain BP funding commitment for trustees' proposed emergency restoration projects.
 - Continue to assist technical work groups (TWGs) developing plans for additional data collection and assessment for various resource categories.
 - Work with co-trustees to review candidate early restoration projects for consistency with Natural Resource Damage Assessment regulatory criteria.

Long-tern

- Continue providing advice in support of trustee efforts to document resource injuries and losses attributable to the spill and to develop restoration alternatives to make the environment and public whole.
- Enforcement: GC for Enforcement will continue immediately processing cases forwarded from the Office of Law Enforcement.
- FOIA: Continuing to work with the DWH war room to develop a searchable repository for war room emails and related documents.

Activities - October 15 to October 19

- 1. Natural Resource Damage Assessment and Restoration
 - Continued providing legal advice in support of ongoing joint trustee/BP activities to collect and analyze data concerning the spill; completed review of work plan for acquiring aerial imagery of shorelines and submerged aquatic vegetation – forwarded for signature by trustees and BP.
 - Participated jointly with the State of Texas and the Department of the Interior in public meeting in Galveston to inform the public about the NRDA process and provide an update on ongoing NRDA activities.
 - Attended the Submerged Aquatic Vegetation (SAV) Technical Work Group meeting with BP representatives to discuss preliminary sampling results and plans for continuing damage assessment activities.
 - Transmitted to the responsible parties a request for funds to implement three potential emergency restoration projects that would avoid or reduce natural resource losses.
- Enforcement: No new case packages were forwarded from the Office of Law Enforcement since last week. All previously received cases have been processed.
- 3. FOIA: No new updates since last week.

Interagency Charge to JAG

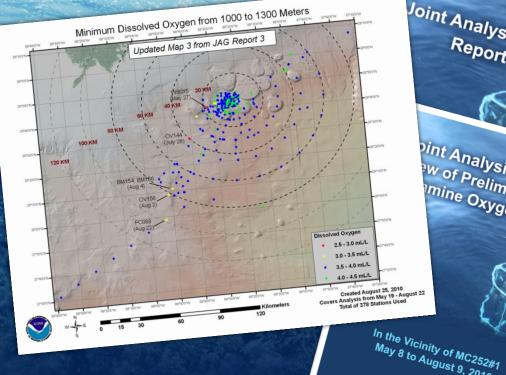
Joint Analysis Group Report 1

Review of R/V Brooks McCall Data to Examine Subsurface Oil

Document the subsurface plume

 Look for presence of hydrocarbons

Analyze oxygen levels



Joint Analysis Group Report 2

pint Analysis Group w of Preliminary Data mine Oxygen Levels

May 8 to August 9, 2010

GOMRT, OAR Sea Grant Research Activities



Welcome to iG

Gulf News

The Gulf of Mexico Sea Grant Programs Florida Louisiana Mississippi-Alabama Texas

Oil Spill in the Gulf of



Deepwater Horizon Oil Spill Research and Monitoring Activities

This database was developed by NOAA's National Coastal Data Development Center and access information about research and This database was developed by NOAA's National Coastal Data Development Censors as a single location to upload and access information about research and nonlioning activities related to the Depowater Hotzon nil snill. The database contains serves as a single location to upload and access information about research and monitoring activities related to the Deepwater Horizon oil spill. The database contains brief

 Enter your research or monitoring activities
 It will take less than five minutes and your input will assist the Gulf of Mexico research community and others in identifying the work that is being completed. It will take less than five minutes and your input will assist the Gulf of Mexico research community and others in identifying the work that is being completed and please rewait this site when you have new activities research community and others in identifying the work that is being completed a gaps that need to be filled. Please revisit this site when you have new activities

- Access activities in the database: New projects will be uploaded on a regular
- Niew all activities in a printable report for

 View all actionies in a printable report format
 View all actionies and subscribe to an RSS feed for updates e email questions regarding this effort to oilresearch@masgc.org.













DEEPWATER HORIZON OIL SPILL Research and Monitoring Activities

location funding samples name organization startdate enddate lastmodified in the control of the

Deepwater Horizon Research and Monitoring Report

** displaying 187 activities sorted on activity in ascending order *

Title of Activity: A Comprehensive Assessment of Oil Distribution, Transport, Fate, and Impacts on Ecosystems and the Deepwater Horizon Oil Release

The Gulf of Mexico region is important to the U.S. from cultural, economic, natural resource, and recreational standpoints. An integrated and comprehensive strategy is proposed to 1) characterize the distribution and transport of the oil in coastal waters on the northern Gulf of Mexico, 2) characterize the chemical form and evolution of oil and dispersant and potential contribution to coastal hypoxia, 3) assess the impacts of oil and

dispersant on the coastal and offshore habitat, food webs, and living marine resources and 4) assess the impacts of the oil spill on public health and Anticipated End Date: 2010/12/3

Survey ID: 2010-08-20.69643698368.0247PM Classification of Activity:

Location of Work:

Florida state waters, Alabama state waters, Mississippi state waters, Louisiana state waters, Florida,

Funding Agency: NGI, BP-GRI

Type of Work: Fieldwork, Laboratory work

Alabama, Mississippi, Louisiana Organization: Phone Number: University of Southern Mississippi

Economic Theme

Social Theme Unknown

Email:

Oil spill modeling and tracking, Coastal and nearshore habitats, Offshore habitats, Human health, Dispersants, Trophic dynamics and food webs

Species of Interest:

Types of Samples Collected:

Research

Name:

Christopher C. Green

Steven E. Lohrenz

Environmental Theme

activity . classification .

Title of Activity: Acute toxicity of the anionic surfactant dioctyl sodium sulfosuccinate to eggs, larvae, and juvenile Gulf killifish at varying salinities

The overall goal of this project is to investigate the acute toxicity of a primary oil dispersant component to eggs, larvae, and juvenile Gulf killifish Fundulus grandis) across a range of environmentally relevant salinities. Specifically this work seeks to determine the 96-h median lethal concentration LC50) values for dioctyl sodium sulfosuccinate (DSS) to eggs, 15-d posthatch (dph) larvae, and juvenile (0.5 g) Gulf killifish. Due to the ability of DSS to alter absorption rates and membrane permeability we believe that it might demonstrate increasing toxicity as salinity ranges from freshwater to full

Survey ID: 2010-08-11 932432773512

Classification of Activity: Research Louisiana state waters

> Organization: Louisiana State University AgCenter

> > Economic Theme:

Species of Interest Fundulus grandis

Start Date: 2010/06/01

NOAA, Louisiana Sea Grant

Funding Agency:

Phone Number:

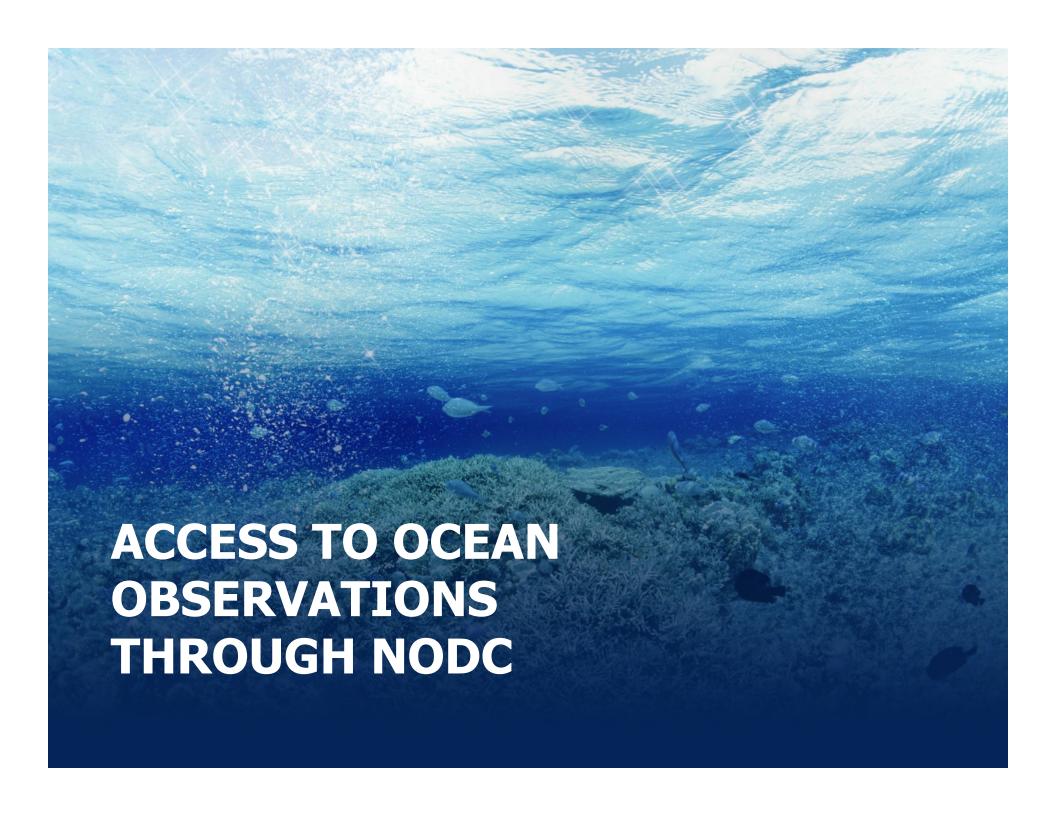
225-765-2848

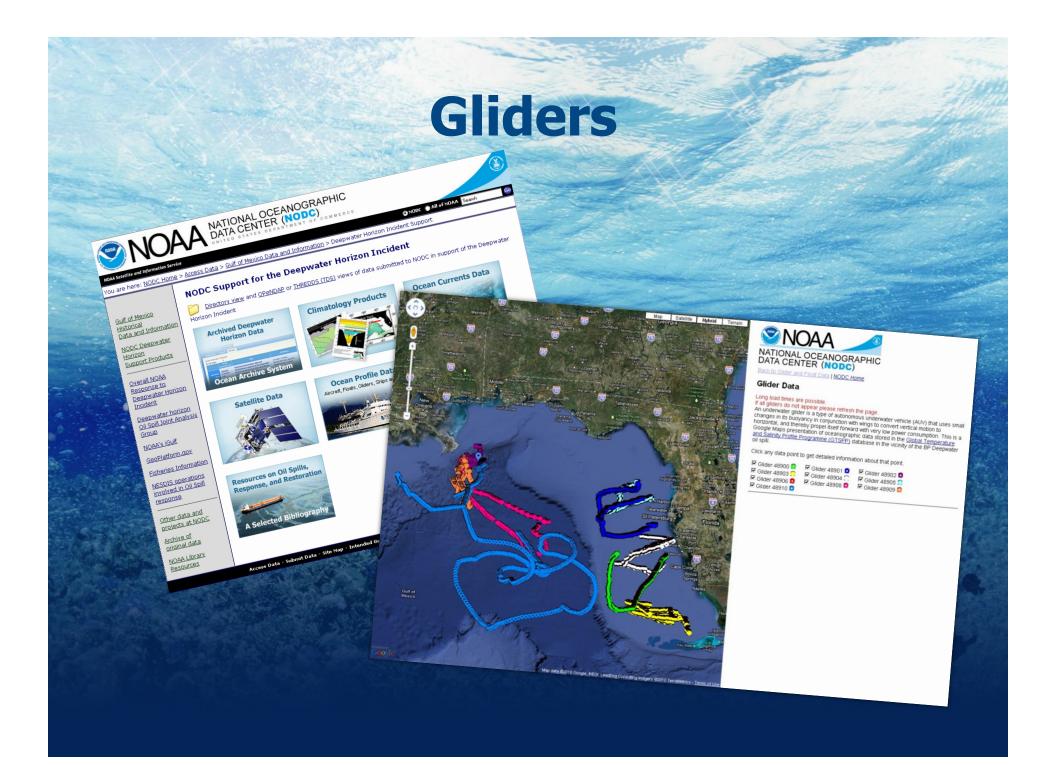
Anticipated End Date: Ongoing

Type of Work: Laboratory work

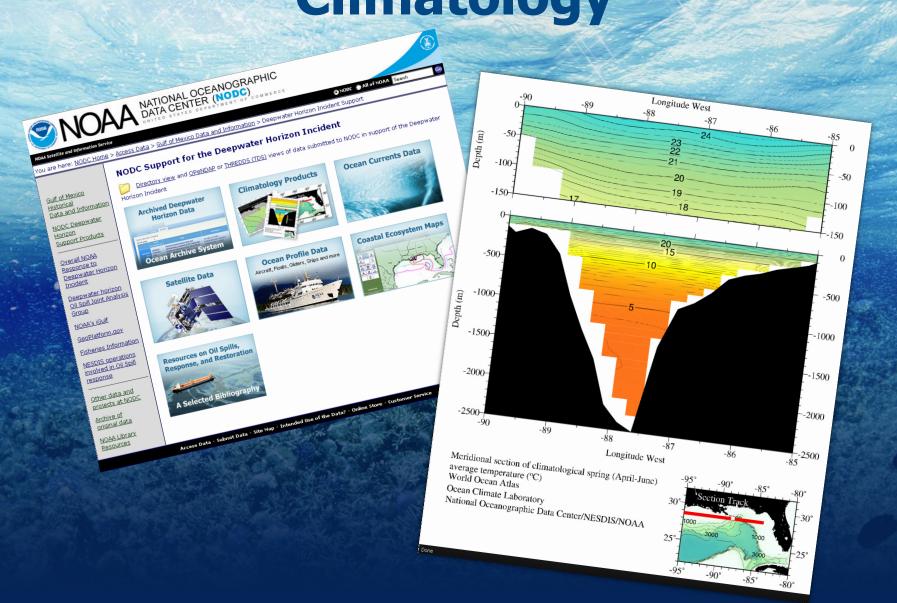
Email: cgreen@agcenter.lsu.edu Social Theme

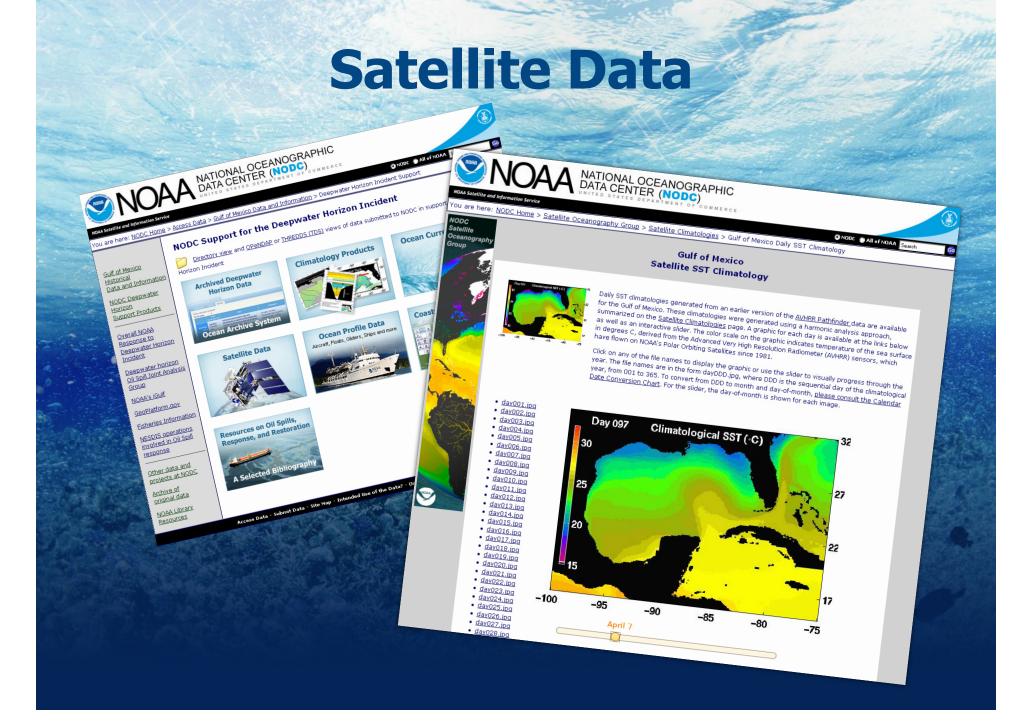
Environmental Theme Dispersants, Toxicology, Impact on life stages of aquatic animals Types of Samples Collected:





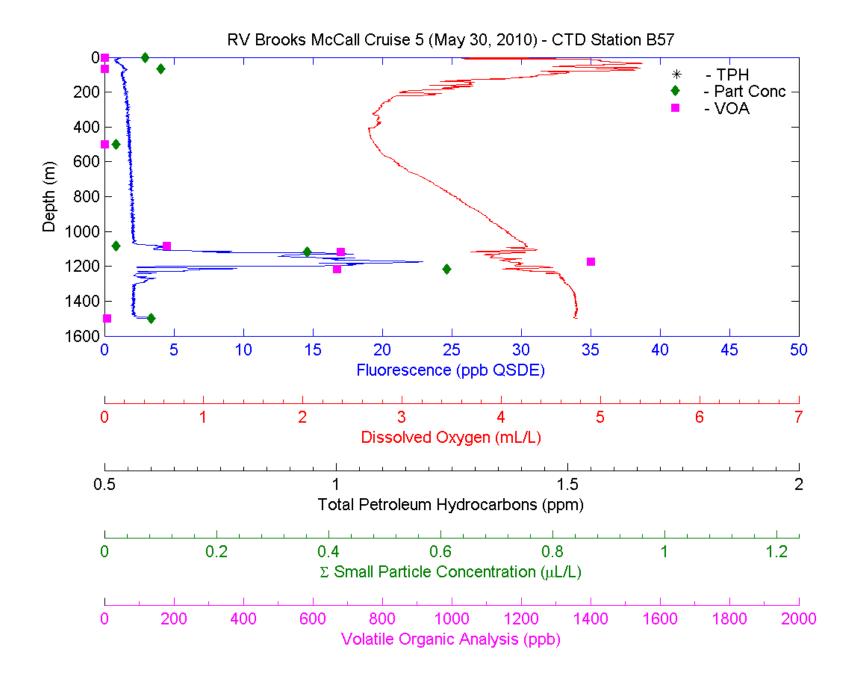
Climatology



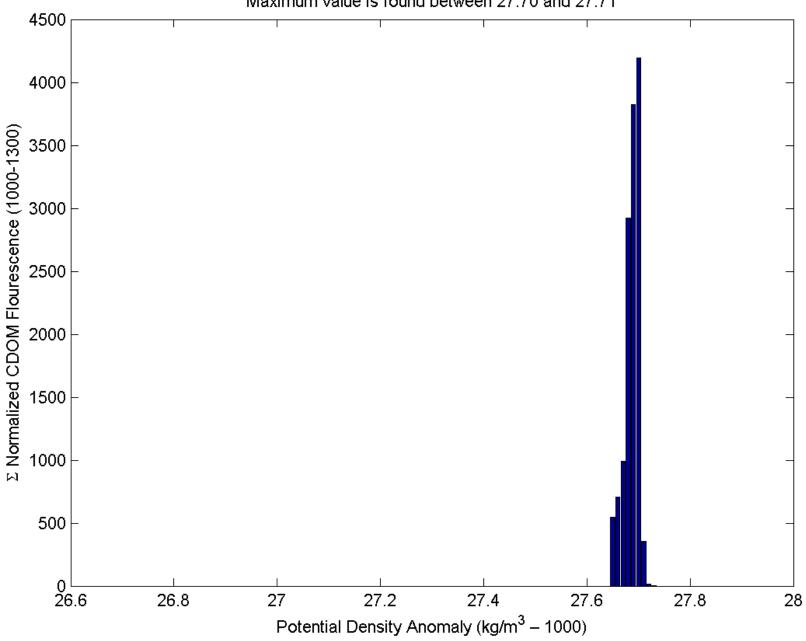


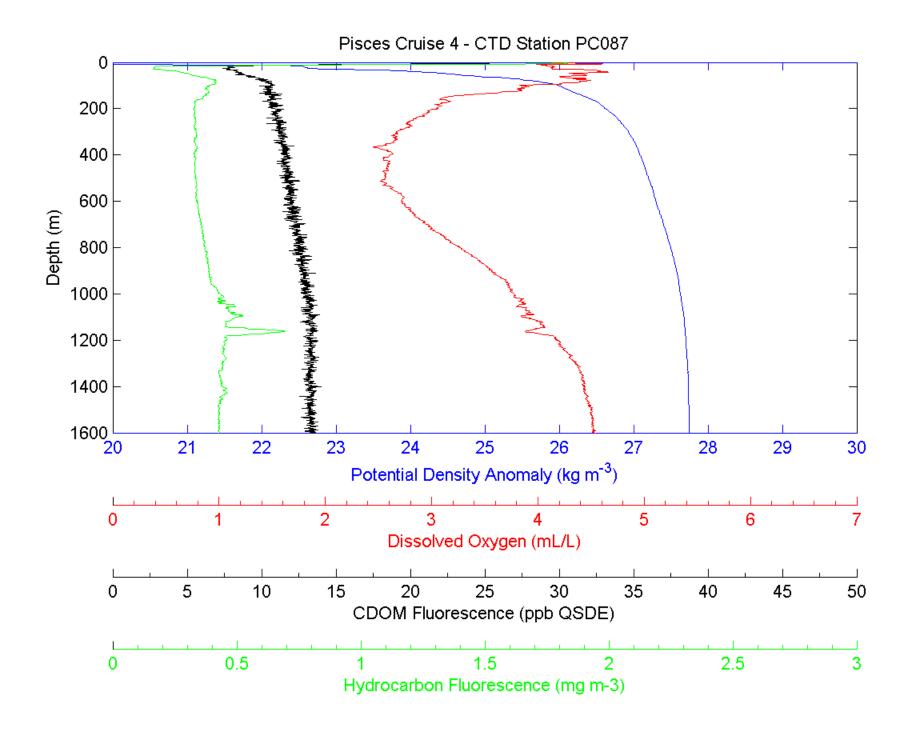


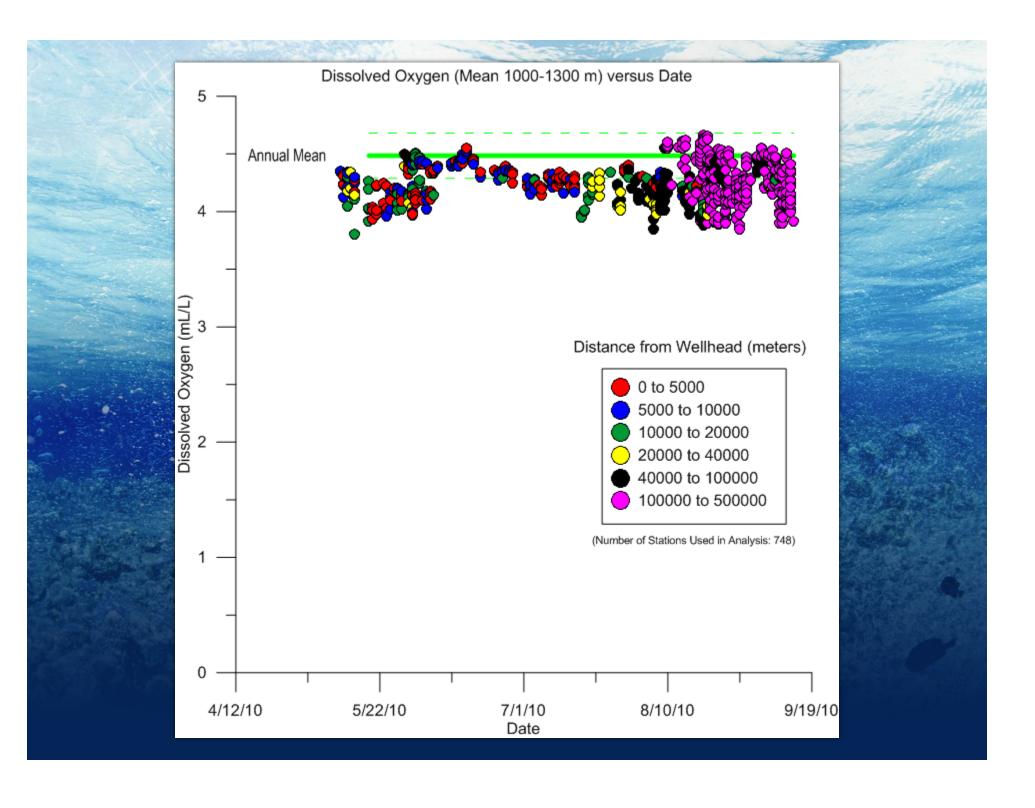


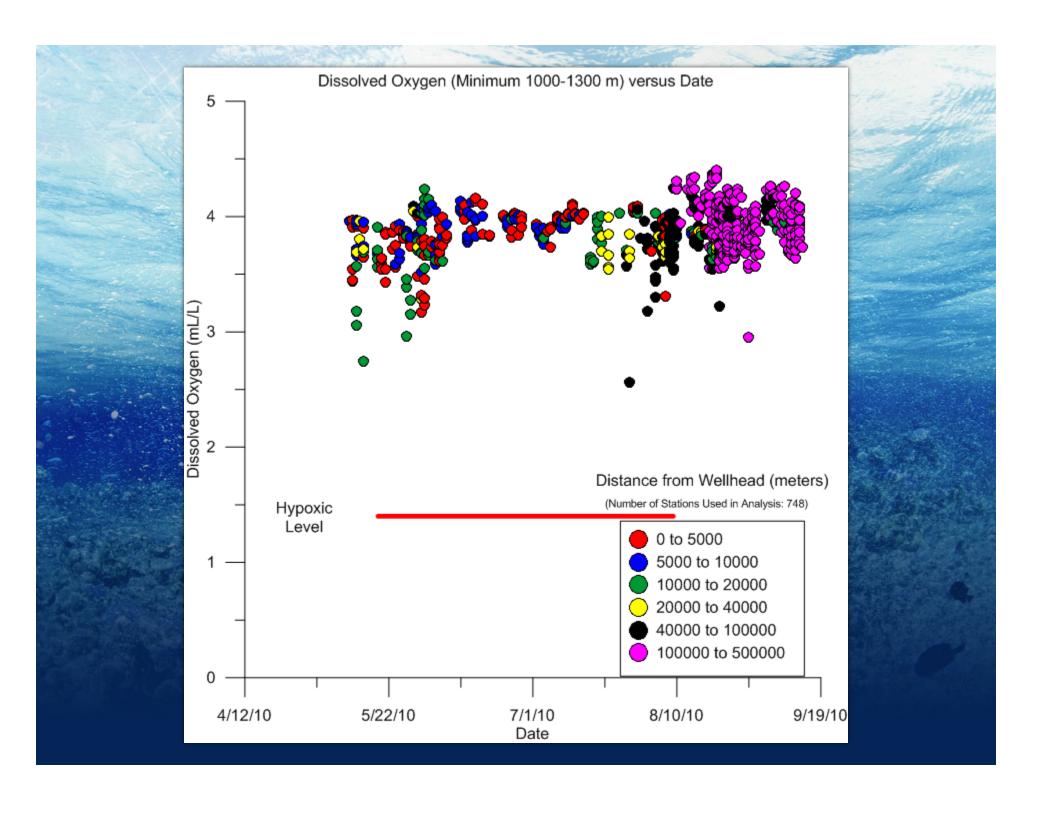


Normalized CDOM Fluorescence (1000-1300 m) Summed over Potential Density Anomaly σ_{θ} Maximum value is found between 27.70 and 27.71

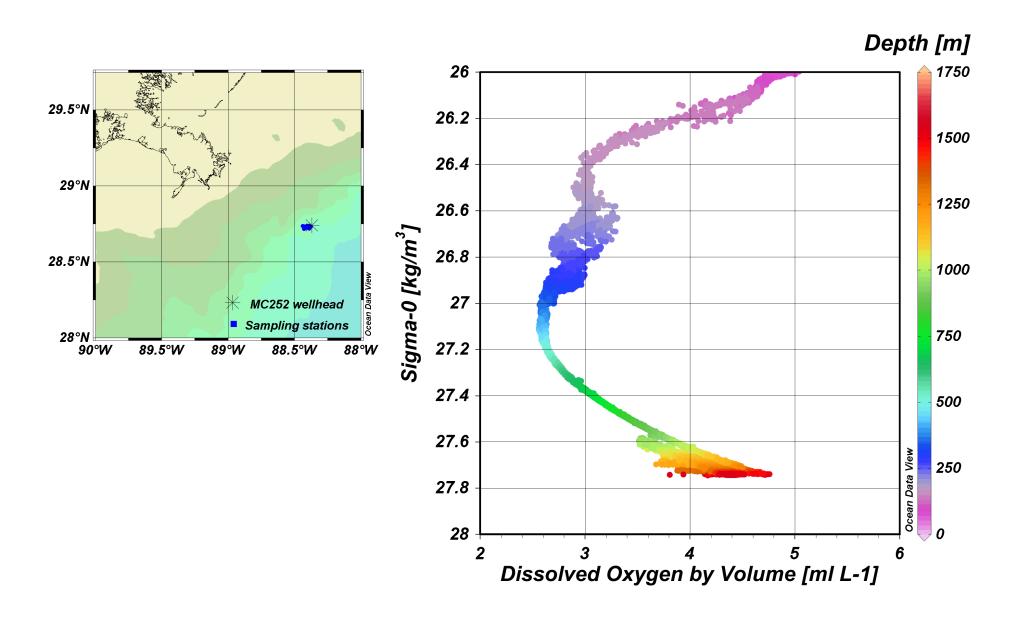




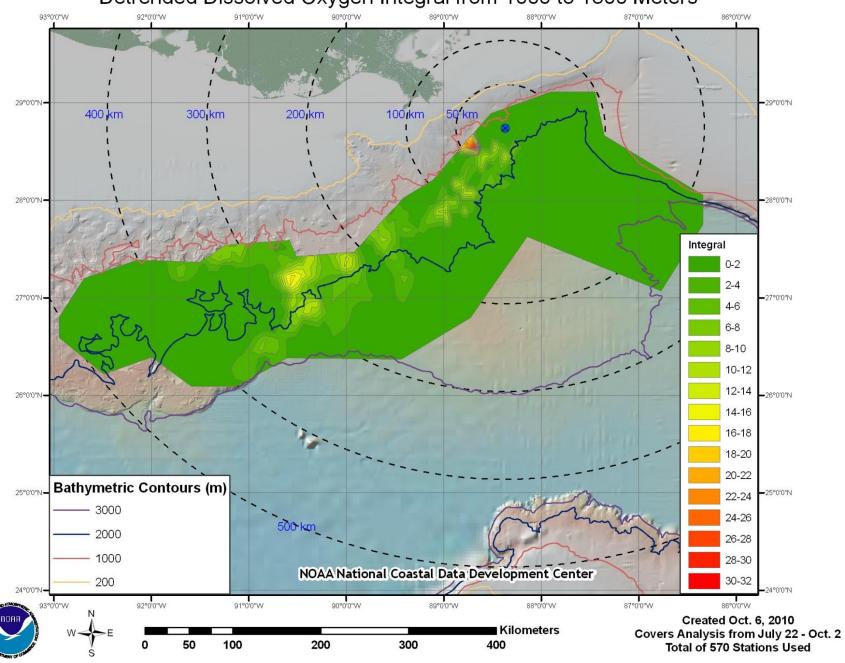




Brooks McCall Cruise 4



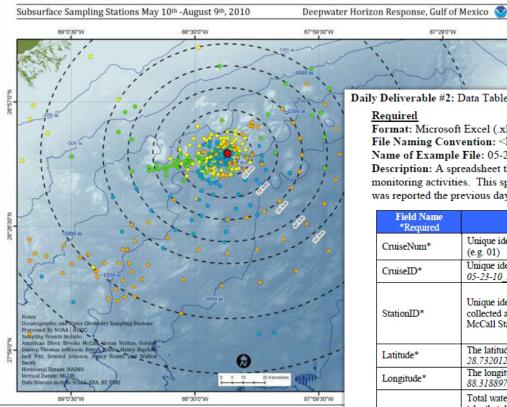
Detrended Dissolved Oxygen Integral from 1000 to 1300 Meters





Data should be collected uniformly and good data starts on the ships.

Map 2. Detail of survey area and month of station occupation for monitoring for subsurface dispersed oil.



Daily Deliverable #2: Data Table of Sampling/Monitoring Locations

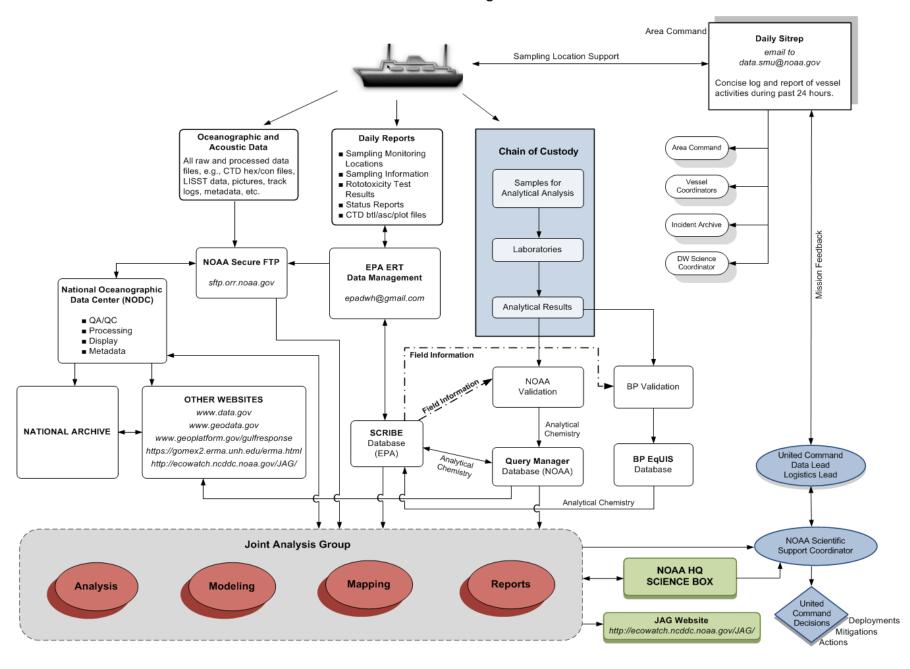
Format: Microsoft Excel (.xls) Spreadsheet

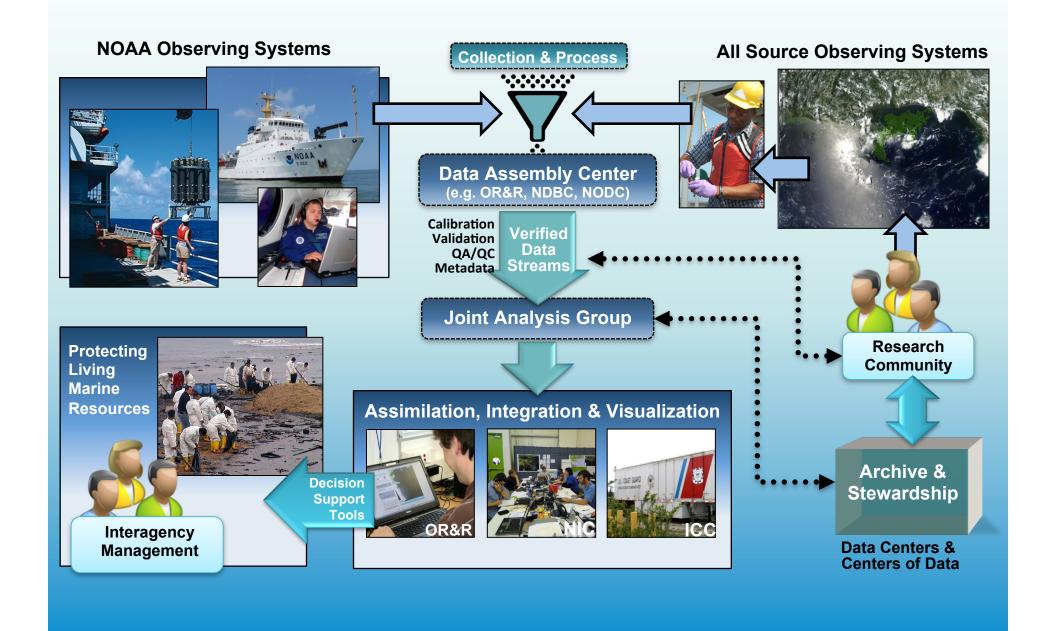
File Naming Convention: <Date (in the format MM-DD-YYYY)> <Vessel Name> Locations

Name of Example File: 05-23-2010 Brooks McCall Locations

Description: A spreadsheet that documents the locations where the vessel conducted sampling and monitoring activities. This spreadsheet must be a cumulative log for the entire cruise (do not delete what was reported the previous day) and must include the following columns or data fields:

Field Name *Required	Description	Formatting Requirements	
CruiseNum*	Unique identifier for the incremented Cruise number (e.g. 01)	Numeric	
CruiseID*	Unique identifier for the at-sea operating period (e.g., 05-23-10_Brooks McCall).	<cruise date="" start="">_<vessel name=""></vessel></cruise>	
StationID*	Unique identifier of the location at which samples are collected and measurements are made (e.g. Brooks McCall Station 16 = BM016).	<vessels initials=""><3-digit sequential number representing the sampling station></vessels>	
Latitude*	The latitude that is generated by the CDT (e.g. 28.732012).	Decimal Degrees (six decimal places)	
Longitude*	The longitude that is generated by the CDT (e.g 88.318897).	Decimal Degrees (six decimal places)	
Depth*	Total water depth in meters at this location. If possible, take that depth from rough-scale (75 m resolution) bathymetric chart. Otherwise, use the sum of the CDT maximum depth and the instrument's altimeter value at that depth.	Numeric	
Date*	The date that the station is occupied.	MM/DD/YYYY	
Datum*	The datum used to collect the latitude and longitude measurements.	Must be "NAD83" or "WGS84"	





DWH Data & Information Management – Federal/Research "Lessons Learned"

- The inability of the SMU and the JAG to provide guidance on vessel sampling locations (enforcement issues)
- Established clear chain of command to drive collection requirements and RELEASABILITY issues, i.e., approval and clearance structure poorly defined
- Pre-determination of data-sharing protocols and public access agreements, non-existent. Not shared, or poorly understood by industry, academics, and government
- Early failure to establish a consistent and coherent policy throughout the data management process

DWH Data & Information Management - Recommendations

- Convene a DWH Data Collections Data and Information Management Services Workshop as soon as reasonable
- NOAA and the academic research community establish/publish the common goals beneficial to both in response activities as well as those areas where goals legitimately differ
- NOAA work with NSF and leading publications to protect publication rights while meeting the constituents "right to know" what data is available
- Better understanding both federal and academics on NRDA requirements re data
- Utilize the academic community as SMEs as subgroups within the process and build a working partnership

