



**Robin Bullock**  
Director, Environmental  
Science and NRD

**BP Gulf Coast Restoration Organization**  
501 Westlake Park Blvd, Houston, TX 77079  
900 East Benson Blvd, Anchorage, AK 995080  
Cell: 406-691-1130  
Email: Robin.Bullock@bp.com

January 5, 2012

Deepwater Horizon Trustees  
RE: October - November Monthly Reports on Joint NRD Activities

Dear Trustees:

Find attached the October - November Deepwater Horizon monthly NRD cooperative report. This report is provided to identify pending actions, ensure timely agreement on matters of concern to the Trustees and BP, and provide for a month look ahead in field activity planning. Information presented here is accurate to the best of our knowledge, but this document may contain inadvertent errors.

As we begin our data compilation and reporting efforts, we note that many work plans are not fully executed, even though associated field activities are complete. Thirty-three work plans for which field work is complete have not been fully executed; 13 are in the NOAA and BP signature process; and 22 additional work plans are waiting for additional Trustee signatures.

Please provide an update as to timing as to when we can have fully executed plans, and let us know if you would like to discuss any of the comments or status of the ongoing cooperative NRD program. We also request that this Monthly Activity Report be placed into the Deepwater Horizon Administrative Record.

Regards,

A handwritten signature in black ink that reads "Robin Bullock" followed by a stylized flourish or initial.

Robin Bullock  
Director, Natural Resources Damages and Environmental Science  
BP Gulf Coast Restoration Organization

# Deepwater Horizon Incident Monthly Report October and November 2011

## Safety

- In November, BP initiated an internal safety standdown from Cardno ENTRIX personnel participating in the cooperative oyster plan field activities until an internal safety review is conducted.
- No key safety issues were raised during October and November, but as we move into winter, our field efforts will be impacted by rough seas and cold temperatures, so precautions will need to be taken to ensure safe operations.

## Key Decisions in October and November

- **Birds:** Cooperative carcass drift study completed.
- **Deepwater Benthic Communities:** NOAA confirmed that data (sediment and tissue chemistry, photo images) from deepwater “vessels of opportunity” (e.g., *Atlantis*, *Cape Hatteras*) and non-NRDA sediment data from the NOAA Status and Trends Program (2010 and 2011) will be made available to BP and the NRDA Trustees. Trustees will provide study plans and relevant metadata for these studies. Samples from these cruises are undergoing QA at Alpha Analytical. The status of samples from the *Ron Brown* (October 14, 2010 through November 3, 2010) is still under discussion.
- **Deepwater Benthic Communities:** Leg 2 of the Seeps Cruise was conducted cooperatively November 4-22, 2011. BP is awaiting comments from the Trustees on the Leg 1 study plan so that those comments can be incorporated into the Leg 2 study plan.
- **Deepwater Benthic Communities:** Trustees reviewed the Archived Cores study plan prepared by BP, but declined to sign the study. BP will proceed independently. The study will analyze finer depth horizon “slices” of sediment cores collected as part of the Response effort and compare those results to results reported by OSAT on cores collected at the same time and place but analyzed with a 3cm depth horizon.
- **Deepwater Benthic Communities:** BP instructed Mark Benfield to proceed with the analysis of the cooperatively collected Megafauna/Megaplankton data as per the study plan provided by BP to the Trustees in May 2011.
- **Early Restoration:** BP and the Trustees commenced negotiations on several proposed early restoration projects in October and November 2011.
- **Fish (Oysters):** Spring 2011 Recruitment Sampling Plan Amendments 1 and 2 were signed. The 2011 Quadrat and Sediment Sampling Plan was also signed.
- **Fish (Oysters):** BP received the Trustees’ proposed Oyster Intertidal plan on November 11, 2011; BP has declined to participate, but has requested the data.
- **Nearshore Benthic:** On October 13, 2011, BP declined to participate in the DOI/USGS Nearshore Benthic Prey Species data collection plan as we believe the work to be duplicative with other data collection efforts.
- **Shoreline:** Trustees and BP agreed to initiate marsh fiddler crab and periwinkle sampling in Louisiana starting in October 2011. The final plan is pending.
- **Shoreline:** BP initiated a soil study in Louisiana in October 2011. The Trustees declined to participate, but requested the data.
- **Shoreline:** BP initiated a shoreline staking plan in Louisiana in October 2011 to assess marsh loss. The Trustees declined to participate, but requested the data.

## Pending Decisions

- **Birds:** Trustees to provide the datasets related to Trustee independent data collection efforts (2011 Colonial Waterbird Photographic Census, Piping Plover Study, and Breeding Shorebird Supplement).
- **Birds:** The Trustees provided BP with a proposed study plan for Quality Assurance/Quality Control effort on November 18, 2011. BP is reviewing.
- **Deepwater Benthic Communities:** Trustees are requesting that BP reimburse for the costs of collecting tissue and sediment samples during the BOEMRE *Ron Brown* Lophelia II study in October 2010. M.E. Rolle of NOAA will provide information to BP on the costs that were incurred for data collection for consideration.
- **Deepwater Benthic Communities:** There was discussion, but not yet agreement, between NOAA and BP legal concerning the level of professional judgment to be included in PI study reports.
- **Emergency Restoration:** The Emergency Restoration Plan for Response Impacts to Seagrasses in Northern Gulf of Mexico is in the final stages of review and preparation for signature.
- **Fish:** The Oyster Transition Amendment 2 and Intertidal Oyster Survey are in review.
- **Fish:** The NRDA Sargassum Sample Processing Plan was submitted to BP for review on November 1, 2011, and is currently being reviewed by BP/Cardno ENTRIX.
- **Fish:** A revised draft of the Sargassum Injury Assessment Plan: Sargassum Mapping Using Remote Sensing was submitted to BP on November 14, 2011, and is currently being reviewed by BP/Cardno ENTRIX.
- **Fish:** Trustees and BP to determine scope and timing of blue crab studies in Mississippi.
- **Human Use:** BP sent the Aerial Imagery Cooperative Work Plan to the Trustees for signature on November 19, 2011.
- **Water Column/Plankton:** The Trustees provided a revised draft of the NRDA Plankton Processing Plan – Analysis of Zooplankton Samples on September 28, 2011, and BP/CardnoENTRIX provided comments on October 25, 2011.
- **Water Column/Plankton:** The Trustees provided a revised draft of the NRDA Plankton Processing Plan – Analysis of Zooplankton Samples on November 9, 2011, and BP/CardnoENTRIX provided comments on November 28, 2011. The final data sharing language is being developed and reviewed with the Trustees reviewing the most recent draft of November 30, 2011.
- **NOLA NRDA Office at the Unified Area Command:** BP NRDA's need to remain an active presence in NOLA is no longer necessary as field activities stand down so BP is requesting the Trustees to secure work locations for their staff other than on the 17<sup>th</sup> floor at 1250 Poydras.

### Data Management

- **Birds:** BP believes the exchange of cooperatively collected data is materially complete with the exception of information related to the Piping Plover, 2011 Breeding Shorebird, 2011 Glen Ford Overflight, 2010 Waterfowl Flight, Analyses of Blood Samples, and NPS Osprey Nesting data.
- **Deepwater Benthic Communities:** The Trustees provided the 2010 Tier 1 Deepwater Communities Study video and photo files as well as fish counts and a synopsis of the results from Leg 2 (mesophotic reefs) of that study. Historical fish count data from 1997-2005 has been committed, but has not yet been received by BP.
- **Deepwater Benthic Communities:** Meiofauna and macrofauna data from 68 softbottom sediment OSAT sampling locations were to be delivered by end of October 2011. Only macrofauna from only 24 locations were delivered. Labs are behind schedule and a revised schedule has not been provided. BP/Cardno ENTRIX provided a proposal for prioritizing the outstanding macro/meiofauna samples and spreading the samples among additional laboratories to expedite sample processing time. Interlab calibration is already underway.
- **Deepwater Benthic Communities:** Discussion began for data QA and validation of video/photo images. BP/Cardno ENTRIX to provide a strawman for beginning QA/validation discussions.

Strawman also will include QA/validation of infauna taxonomy.

- **Deepwater Benthic Communities:** Trustees have committed data from the Red Crab Study. Data is to be posted to the NOAA NRDA website.
- **Marine Mammals & Turtles:** Data sharing and laboratory analysis language continued to be developed for incorporation into several work plans. DOI was to provide the 2011 Kemps nesting data in mid-November 2011. Sargassum response data continues to be requested as well as UME data and legal is coordinating.
- **Shoreline:** Analytical data from Spring 2011 and Fall 2011 marsh assessment surveys still pending. Also pending is elevation data and LIDAR imagery.
- **Water Column:** Trustees and BP/Cardno ENTRIX will compare post-processing methods for CTD/fluorometry data with the intent of developing a common post-processing SOP and consensus QAed dataset for all cooperative and independent offshore water column studies.
- **Water Column/Plankton:** Data sharing and laboratory QA/QC language continued to be developed for incorporation in the NRDA Plankton Processing Plan – Analysis of Zooplankton Samples.

### Trustee Council/BP Communications in October and November

- **Cooperative Assessment Agreement:** On October 4, 2011, the Trustees provided their most recent redline of the draft Cooperative Assessment Agreement to BP.
- **End User License Agreements:** Provided to NOAA on October 1, 2011, in order to share certain licensed seep data.
- **Offshore Data Discussion:** On October 6, 2011, BP and NOAA met to discuss the seep study, sheen data collection and overall offshore data analysis.
- **Data Summary Reports:** On October 5, 2011, provided a DRAFT *Jack Fitz* Data Summary Report (DSR) with request for comments. No comments received to date. For future monthly reports, BP will add DSRs to an additional table in order to track progress of data completion.
- **AUV Data Report:** On October 15, 2011, BP provided the AUV survey data report.
- **Early Restoration:** BP and the Trustees met in Atlanta from October 17 - 19, 2011, to further discuss the proposed early restoration projects and engage in negotiations. BP and the Trustees continued to discuss the project details and draft the form stipulation in November.
- **Human Use:** BP responded to the draft Aerial Imagery Cooperative Work Plan on October 5, 2011, and exchanged several comments with the Trustees in October and November. BP and the Trustees engaged in further conversation to produce a final draft in November. BP signed the plan on November 19, 2011.
- **Funding:** Met with NOAA on November 14, 2011, to discuss forward funding requests. Funding request is under review by BP.
- **Economics Presentment Letter:** Received NOAA presentment letter on November 16, 2011. The letter is under review by BP.
- **SAV Emergency Restoration:** BP received additional Trustee comments on September 13, 2011, and resubmitted a revised draft on October 18, 2011. Following additional dialogue with the Trustees, technical consensus was reached and a proposed final plan was submitted to the Trustees for signature on November 21, 2011, pending finalization of legal reservation language. The plan has not been signed to date.
- **Shoreline:** BP and Trustees met in NOLA on November 18, 2011, to cooperatively discuss ongoing efforts and potential methods of analysis of existing data (e.g., oiling map).

### Planned December 2011 Field Activities

- **Birds:** All bird field efforts are complete, and no additional bird field efforts are currently planned.
- **Deepwater Benthic Communities:** None planned. Natural Seeps Study Leg 2 completed November 4-22, 2011.

- **Fish (Oysters):** Continuation of the Spring 2011 Amendment 1 Oyster Sampling and 2011 Quadrat and Sediment sampling plan.
- **Fish:** Collection of blue crab megalopae and adults – initiated October 12, 2011; continuation dependent upon availability. Sturgeon 2011 field sampling at river collection areas is expected to continue.
- **Human Use:** Cooperative Aerial Imagery will be implemented in December 2011.
- **Marine Mammals & Turtles:** Turtle and dolphin prey sampling began October 7, 2011, and is continuing intermittently due to weather conditions. Discussions about appropriate data sharing provisions and development of plans for laboratory analyses are ongoing. Cardno/Entrix has been participating in the field work.
- **Shoreline:** Continue to collect fiddler crab and marsh periwinkle data at selected locations in Louisiana; continue to collect soil samples in Louisiana; continue to set stakes in selected areas of Louisiana to assess any marsh loss.
- **Terrestrial Mammals:** Examination of potential impact sites for the endangered beach mouse is to begin in early December 2011.
- **Water Column:** Final maintenance and retrieval of the moored ADCP is to occur in December 2011.

<b>Joint Work Plans Signed in October and November</b>				
<b>TWG</b>	<b>Plan</b>	<b>Signature Date</b>		<b>Comments</b>
		<b>NOAA/USFWS</b>	<b>BP</b>	
<b>Deepwater Benthic Communities</b>	HOS Sweetwater ROV Sediment and Bottom-Water Sampling Cruise Plan July-September 2011	8/22/2011	11/10/2011	
<b>Deepwater Benthic Communities</b>	Quantifying the Distribution, Abundance and Biodiversity of Benthic Megafauna and Mesopelagic/Bathypelagic Megaplankton in the Vicinity of the MC252 Spill	6/20/2011	10/10/2011	
<b>Fish</b>	Spring 2011 Oyster Recruitment Sampling Plan - Amendment 1	9/8/2011	10/10/2011	
<b>Fish</b>	Spring 2011 Oyster Recruitment Sampling Plan - Amendment 2	9/26/2011	10/10/2011	
<b>Fish</b>	2011 Oyster Quadrat and Sediment Sampling	10/11/2011	10/14/2011	
<b>Fish</b>	Assessment Plan for Sargassum Communities and Associated Fauna in the Northern GoM: Addendum	10/25/2011	10/29/2011	
<b>Marine Mammals &amp; Turtles</b>	Kemp's Ridley Nesting Study Addendum	10/13/2011	10/18/2011	
<b>Marine Mammals &amp; Turtles</b>	Northern Gulf of Mexico MARU Recovery Mission Plan November, 2011	11/7/2011	11/9/2011	
<b>Marine Mammals &amp; Turtles</b>	Satellite Tagging Sperm Whales in the Gulf of Mexico in 2011	10/12/2011	10/13/2011	
<b>Shoreline</b>	Deepwater Horizon, Mississippi Canyon 252 Spill Light Detection and Ranging (LIDAR) Data Acquisition	11/21/2011	11/20/2011	

### Joint Work Plans Signed in October and November

TWG	Plan	Signature Date		Comments
		NOAA/USFWS	BP	
Water Column - Plankton	Late-Summer 2011 McArthur II Small Pelagics Sampling Plan	10/14/2011	10/14/2011	

## Joint Work Plans Under Revision/Awaiting Signature (October and November)

TWG	Plan	Signature Date		Comments
		NOAA/USFWS	BP	
<b>Aerial Imagery</b>	Aerial Photography Overflights			Spring aerial imagery acquisition is complete. Fall aerial imagery acquisition is complete.
<b>Aerial Imagery Work Plan</b>	Original draft submitted as a comprehensive work plan intended to describe the scope of airborne and spaceborne imagery acquisition, mapping interpretation, and analysis.			Revised draft developed that provides only for mapping of feature primitives (e.g., land-water interface; habitat maps for marsh, SAV, flats, beaches) and basic change detection. Interpretation and analysis components of original draft have been tabled.
<b>Birds</b>	Quality Assurance/Quality Control			Draft work plan provided by Trustees on 11/18/2011. BP is reviewing.
<b>Deepwater Benthic Communities</b>	Deepwater Coral SPMD Deployment Plan	Pending	7/9/2010	Awaiting Trustee signature based on BP comments and signature page provided to Trustees on 7/9/2010. Field work is complete.
<b>Deepwater Benthic Communities</b>	Deepwater Corals ROV Hardground Survey			BP provided comments to Trustees on 10/14/2011. Field work complete.
<b>Deepwater Benthic Communities</b>	HOS Sweetwater 4 and 6 – ROV Sediment and Water Sampling Plan - Addendum			Addendum for revised sampling dates and sheen sampling provided by Trustees to BP in October 2011. Field work complete.



### Joint Work Plans Under Revision/Awaiting Signature (October and November)

TWG	Plan	Signature Date		Comments
		NOAA/USFWS	BP	
Deepwater Benthic Communities	Mesophotic Reef Study			BP provided comments to the Trustees on 10/14/2011. Field work complete.
Deepwater Benthic Communities	Red Crab Study			BP commented on initial draft scope of work on 7/11/2011. BP received draft study plan from Trustees on 7/26/2011; cruise departed 7/27/2011 and is complete. BP provided operations-targeted comments on 7/27/2011; more detailed comments in preparation.
Deepwater Benthic Communities – Analysis Plan	ROV Megafauna/Megaplankton Consolidated Analysis Plan			Trustees received this plan for review and comment on 5/17/2011.
Deepwater Benthic Communities	Red Crab Data and Sample Analysis Plan			BP requested a cooperative analysis plan on 7/27/2011.
Deepwater Benthic Communities	SPI Survey Addendum #1			BP sent the Trustees on 10/25/2011 a no-cost addendum that addresses the removal of the water column data collection and adds one day to the study. Field work complete.

## Joint Work Plans Under Revision/Awaiting Signature (October and November)

TWG	Plan	Signature Date		Comments
		NOAA/USFWS	BP	
Deepwater Benthic Communities	SPI Survey Addendum #2			Trustees received draft on 10/25/2011. Second round of comments completed and sent to the Trustees on 11/29/2011. Plan should be ready for signature process, pending Trustee agreement of last round of comments. Field work complete.
Deepwater Benthic Communities /Water Column – Seeps	Natural Hydrocarbon Seep Study Plan			BP reviewing comments received from the Trustees on 11/1/2011. Field work complete.
Deepwater Benthic Communities	Seeps Plan Microbial Water and Sediment Core Processing SOP Addendum			BP sent to Trustees on 10/23/2011.
Deepwater Benthic Communities	Coral Aging Plan			BP comments sent to Trustees on 10/24/2011.
Fish	Blue Crab Megalopae Study in Mississippi			Field effort has begun. Trustees are preparing draft plan for BP review.
Fish	Gulf Sturgeon - Year 2 NRDA Assessment - Fall 2011 & Spring 2012			BP provided second round of comments on 9/20/2011.
Fish	Transition Oyster Sampling Plan Amendment 2			BP received the draft plan for review and comment on 10/28/2011. Field work complete.
Fish	Sargassum Injury Assessment: Sargassum Mapping Using Remote Sensing			BP received the draft plan on 11/14/2011.

## Joint Work Plans Under Revision/Awaiting Signature (October and November)

TWG	Plan	Signature Date		Comments
		NOAA/USFWS	BP	
<b>Fish</b>	NRDA Sargassum Sample Processing Plan			BP received draft plan on 11/1/2011.
<b>Human Use</b>	Draft Human Use Aerial Imagery Cooperative Work Plan		11/19/2011	
<b>Marine Mammals &amp; Turtles</b>	Dry Tortuga MARU and HARP Recovery & Servicing Mission July 11-13, 2011			Field work complete.
<b>Marine Mammals &amp; Turtles – Analysis Plan</b>	2011 Addendum 2- Budget Increase Assessment of Juvenile Sea Turtles in Sargassum Communities			Final addendum has not yet been made available for review.
<b>Marine Mammals &amp; Turtles</b>	Addendum to Sargassum Turtle Plan for Organizing and Linking Sea Turtle Data Sets Gathered During Response and Assessment Efforts for the MC252 Deep Water Horizon Oil Spill			BP provided comments in late April 2011. This proposal appears to have been pulled from the cooperative process due to response data sharing issues.
<b>Marine Mammals &amp; Turtles</b>	Post Release Monitoring and Tracking Loggerhead Turtles			Trustees revising draft plan as agreed by email on 10/21/2010. Field work complete.
<b>Marine Mammals &amp; Turtles</b>	Investigation of Marine Mammal Morbidity and Mortality through Active Surveillance for Strandings			BP received revised draft on 5/27/2011. Discussions over future scope of work and data exchange are ongoing.
<b>Nearshore Benthic</b>	Submerged Oil Plan 2011 – Addendum 1 - Sediment Sampling with Vibracorer			BP received this plan on 10/27/2011. The Trustees have not provided data results to support the justification or need for this plan.

**Joint Work Plans Under Revision/Awaiting Signature (October and November)**

TWG	Plan	Signature Date		Comments
		NOAA/USFWS	BP	
SAV	Tier 2 Plan (PEMD Monitoring, Rapid Assessment, Submerged Oil Sentinel Monitoring, Pre-Assessment Low Altitude Aerial Photography of Seagrass Beds)			BP provided final comments to the Trustees on 11/7/2011. Field work has been completed.
SAV	Tier 3 Plan			Trustees revising plan to address prior BP comments and to include Fall 2011 Signature Verification Addendum. Field work has been completed.
SAV – Emergency Restoration	MC 252/DWH Emergency Restoration Plan For Response Impacts to Seagrasses in Northern Gulf of Mexico			BP sent the draft final plan to the Trustees on 11/21/2011.
Shoreline	Work Plan for Impacts to Marsh Fiddler Crabs and Periwinkles along the Gulf of Mexico			Trustees proposed plan to BP on 9/16/2011. Cardno ENTRIX provided comments on 10/5/2011. Trustees submitted revised plan to BP on 11/15/2011. Field work has been completed.
Shoreline	DOI Response Injury and Sandy Beach Shoreline			BP received the draft statement of work on 7/14/2011. Futher discussed at Shoreline face-to-face meeting on 11/18/2011.
Shoreline	North Barataria Bay Addendum to the Monitoring Plan for Coastal Vegetation			BP responded to Trustee comments on 9/29/2011. Field work has been completed.

**Joint Work Plans Under Revision/Awaiting Signature (October and November)**

TWG	Plan	Signature Date		Comments
		NOAA/USFWS	BP	
Shoreline	Addendum for the States of Mississippi and Alabama to the Sampling and Monitoring Plan for the Assessment of MC252 Oil Impacts to Coastal Wetland Vegetation in the Gulf of Mexico			BP responded to Trustee comments on 9/13/2011. Trustees indicated at the Shoreline face-to-face meeting on 11/18/2011 that the plan was ready for signature. BP waiting for final plan. Field work has been completed.
Shoreline	Addendum to the Sampling and Monitoring Plan for the Assessment of MC252 Oil Impacts to Coastal Wetland Vegetation in the Gulf of Mexico <hr/> Protocol for Sampling and Monitoring Marsh Response Cleanup Areas			Trustees provided comments to BP on 8/24/2011. BP to submit comments 12/2011. Field work has been completed.
Water Column	December Cooperative Cruise- (NOAA/BP-CardnoENTRIX NRDA Cooperative Deep Tow Cruise 2/December 2010 Arctic-HOS Davis 5-Sarah Bordelon Cruise)	Original Signature Page 12/17/2010	Amended Signature Page 3/26/2011	Signature Page was revised after Trustee signed. BP requested Trustees re-sign in March 2011 so all signatures are on one sheet. Awaiting new Trustee signature.
Water Column	NRDA UV Radiation Sampling Plan - October 2010 Cruise Plan			In July 2011, it was determined that this plan, while agreed to, was never signed. On 7/12/2011, BP requested the Trustees to start the signature process. Field work complete.

## Joint Work Plans Under Revision/Awaiting Signature (October and November)

TWG	Plan	Signature Date		Comments
		NOAA/USFWS	BP	
Water Column - Analysis Plan	NRDA Plankton Processing Plan			BP received the Trustee draft of this plan on 7/23/2011. BP received a revised draft on 9/28/2011.
Water Column - Plankton	Plankton Sampling Plan – Fall 2010 Shakedown Cruise 1 – Nick Skansi			Trustees reviewing revised plan provided 2/8/2011. Field work complete.
Water Column - Plankton	Plankton Sampling Plan – Fall 2010 Shakedown Cruise 2 – Nick Skansi			Trustees reviewing revised plan provided on 2/8/2011. Field work complete.
Water Column - Plankton	Plankton Sampling Plan – Fall 2010 Cruise 3 – Nick Skansi			Trustees reviewing revised plan provided 1/11/2011. Field work complete.
Water Column – Plankton	Plankton Sampling Plan – Fall 2010 Cruise 4 – Nick Skansi			Trustees reviewing revised plan provided 1/11/2011. Field work complete.
Water Column - Plankton	Addendum - NRDA Spring 2011 1-meter MOCNESS Plankton Sampling Plan			BP agreed that this plan was ready for signature on 6/17/2011. Field work complete.
Water Column - Plankton	Summer 2011 Plankton Imaging Cruise Plan ISiIS - McArthur II			BP agreed this plan was ready for signature on 6/16/2011. Field work complete.
Water Column - Plankton	Summer 2011 1-meter MOCNESS Plankton Sampling Cruise Plan			BP agreed this plan was ready for signature on 7/12/2011. Field work complete.
Water Column - Plankton	Plankton Processing Plan – Analysis of Zooplankton Samples			Trustees addressing BP comments provided on 11/28/2011.

<b>Joint Work Plans Awaiting Louisiana Signature (October and November)</b>			
<b>TWG</b>	<b>Plan</b>	<b>Date NOAA/USFWS Submitted to Louisiana</b>	<b>Comments</b>
<b>Birds</b>	Carcass Persistence Study	6/12/2011	Field work complete.
<b>Birds</b>	Colonial Waterbird (CWB) Extension 2 (BRPE and GREG satellite telemetry)	7/29/2011	Satellite data collection in progress.
<b>Birds</b>	Osprey Rapid Assessment	11/1/2010	Awaiting DOI and LA signatures. Field work complete.
<b>Birds</b>	Raptor – Osprey Rapid Assessment Addendum – Bird Study #9	4/27/2011	Field work complete.
<b>Birds</b>	Using Radio Telemetry to Determine the Fates of Bird Carcasses Drifting in NGOM	7/15/2011	Field work complete.
<b>Corals</b>	Shallow-water Coral Tier 1 Plan Addendum	5/17/2011	Field work complete.
<b>Deepwater Benthic Communities</b>	HOS Sweetwater ROV Sediment Sampling Study	3/23/2011	Field work complete.
<b>Deepwater Benthic Communities</b>	HOS Sweetwater ROV Sediment and Bottom-Water Sampling Cruise Plan July-September 2011	11/10/2011	Field work complete.
<b>Deepwater Benthic Communities</b>	Sediment Profile Imaging (SPI) Study Plan	4/6/2011	Field work complete.
<b>Fish</b>	2011 Oyster Quadrat and Sediment Sampling	10/14/2011	Field work complete.
<b>Fish</b>	Assessment Plan for Sargassum Communities and Associated Fauna in the Northern GoM: Addendum	10/29/2011	
<b>Marine Mammals &amp; Turtles</b>	Addendum February 2011 ADCP Maintenance and HARP Recovery Plan	3/18/2011	Field work complete.
<b>Marine Mammals &amp; Turtles</b>	Genetic Analysis of Stock Structure, Species Identification and Sex Determination for Marine Mammal Biopsies and Strandings	7/29/2011	Laboratory analyses delayed due to federal contracting issues.
<b>Marine Mammals &amp; Turtles</b>	Kemp's Ridley Nesting Study Addendum	10/18/2011	Field work complete.

### Joint Work Plans Awaiting Louisiana Signature (October and November)

TWG	Plan	Date NOAA/USFWS Submitted to Louisiana	Comments
<b>Marine Mammals &amp; Turtles</b>	Northern Gulf of Mexico MARU Recovery Mission Plan November, 2011	11/9/2011	Field work complete.
<b>Marine Mammals &amp; Turtles</b>	Spatial Distribution (Aerial) Marine Mammal and Turtles 2011	1/30/2011	Aerial surveys in progress.
<b>Shoreline</b>	Deepwater Horizon, Mississippi Canyon 252 Spill Light Detection and Ranging (LIDAR) Data Acquisition	11/21/2011	Field work complete.
<b>Water Column</b>	HOS Davis Cruise 3 Addendum	12/4/2010	Field work complete.
<b>Water Column - Plankton</b>	Late-Summer 2011 McArthur II Small Pelagics Sampling Plan	10/14/2011	Field work complete.
<b>Water Column - Plankton</b>	NRDA 1-meter MOCNESS Spring 2011 Plankton Sampling Plan	7/19/2011	Field work complete.
<b>Water Column - Plankton</b>	Offshore Deep Meso- and Bathypelagic Fish Sampling Plan September 2011	9/23/2011	Field work complete.