

Mississippi Canyon 252 Incident

**ADDENDUM TO THE DATA COLLECTION PLAN TO ASSESS INJURY TO
WEST INDIAN MANATEES FROM THE DEEPWATER HORIZON OIL SPILL
OUTSIDE OF FLORIDA**

Approval of this addendum to the data collection plan to assess injury to West Indian manatees from the Deepwater Horizon Oil Spill outside of Florida is for the purposes of obtaining data for the Natural Resource Damage Assessment. Each party reserves its right to produce its own independent interpretation and analysis of any data collected pursuant to this work plan.

This plan will be implemented consistent with existing trustee regulations and policies. All applicable state and federal permits must be obtained prior to conducting work.

Jennifer Boyce Aug 2 2010
Department of Commerce Trustee Representative: Date

Nicole M. [Signature] 8/9/2010
Department of Interior Trustee Representative: Date

[Signature] 8/30/2010
Louisiana Trustee Representative: ^{FOR} _{RECORD ONLY} Date

Joyce McHenry Aug 2 2010
BP Representative: Date

Approval of this work plan is for the purpose of obtaining data for the Natural Resource Damage Assessment. Each party reserves its right to produce its own independent interpretation and analysis of any data collected pursuant to this work plan

**WRITTEN ADDENDUM for
Data collection plan to assess injury to West Indian manatees from the Deepwater
Horizon Oil Spill outside of Florida**

Project Coordinators for AL, MS, LA: Monica Ross (Sea to Shore Alliance)

[REDACTED]

Ruth Carmichael (Dauphin Island Sea Lab)

[REDACTED]

PI Point of Contact: Nicole Adimey (USFWS)

[REDACTED]

Please find a written addendum to the work plan approved by BP and NRDA on 06/08/10. The two objectives of the work plan were to: 1) estimate abundance and distribution of manatees in areas adjacent to and affected by the Deepwater Horizon oil spill (before, during and after impact) in important summer habitats of Alabama, Mississippi and Louisiana, and 2) conduct an aerial assessment of impacted areas to document locations of marine mammals in fouled areas; locate fouled, distressed or dead animals; and inform manatee rescue efforts.

Due to the extended period of cold weather this past winter, manatee migration north from their winter refuge was delayed by almost a month. Thus, migration westward has had similar delayed response confirmed from telemetry data acquired from two different agencies. Currently, immigration of manatees into the regions of oiled impacted areas has been confirmed by aerial surveys conducted under this work plan, along with an increase in public manatee sightings within the Mississippi area.

USFWS has requested the continuation of data collection to assess exposure and potential impacts to manatees as they make their migration into regions that include the oil impacted areas of Alabama, Mississippi and Louisiana. A concern beyond possible surface oil exposure is the potential impact due to ingestion of product as it potentially settles into sediments and vegetation in fringe habitat. At this time, no plot sampling surveys have been flown due to the low number of manatees observed; however, these

surveys will be conducted during peak manatee migration (based on available observations, telemetry data from tagged individuals and expert opinion). The original work plan outlined costs for one month of flights per area and did not include a definitive end date. It is projected that the surveys will end by the third week of November 2010. Notification to BP will be made if these surveys are proposed beyond this date. . It is understood that all data associated with this plan will continue to be made available to BP within a reasonable timeframe. This addendum serves to confirm that Sea to Shore Alliance with Dauphin Island Sea Lab will continue manatee aerial survey flights as approved and requested by USFWS. Additionally, this addendum includes an amended budget covering estimated costs per month for flights using aircraft supplied by BP vendors (i.e., Helicopters, which were not identified in the original budget submitted). All costs associated with aircraft will be administered directly by BP.

Estimated cost of a survey for Alabama, Mississippi OR Louisiana:

Survey Type	# of Aircraft*	# of hrs/survey	Cost/hour	# of Surveys*	Cost
Reconnaissance	1	8	BP Vendor	4	BP covers
Plot Sampling	1	8	BP Vendor	2	BP covers
Response (impact phase)	1	8	BP Vendor	30	BP covers
Sub-total				36	BP covers
	# of staff hrs	Cost/hr			Cost
Salary (GIS staff)	80	\$25			\$2,000
Salary (aerial observers)	288	\$35			\$10,080
	# of days	Cost/day			
Lodging	35 (approx. month)	\$160			\$5,600
Travel**					\$3,500
Data Analyses & Coord.	50	\$100			\$5,000
Administrative					\$8,534
Sub-total					\$34,714
TOTAL					\$34,714

* Budget is based on potential impacts per state for a one month response to include one of the following: Alabama, Mississippi, Louisiana. Number of aircraft and surveys is subject to change based on the extent and duration of the impact. Number of reconnaissance surveys is based on an estimate of up to 4 surveys per month.

**Travel estimates account for travel of trained staff from Florida to outside locations averaged among destinations.