

*Please provide the following information, and submit to the NOAA DM Plan Repository.*

### **Reference to Master DM Plan (if applicable)**

*As stated in Section IV, Requirement 1.3, DM Plans may be hierarchical. If this DM Plan inherits provisions from a higher-level DM Plan already submitted to the Repository, then this more-specific Plan only needs to provide information that differs from what was provided in the Master DM Plan.*

URL of higher-level DM Plan (if any) as submitted to DM Plan Repository:

## **1. General Description of Data to be Managed**

### **1.1. Name of the Data, data collection Project, or data-producing Program:**

Deepwater Horizon Seafood Safety Oracle Database (2010)

### **1.2. Summary description of the data:**

In 2010, the Deepwater Horizon oil spill occurred in the Gulf of Mexico. In response to this spill, the National Marine Fisheries Service initiated a data collection and analysis program to monitor the health and safety of Gulf of Mexico fisheries resources. Data were collected in conjunction with existing Southeast Fisheries Science Center Mississippi Laboratories resource surveys using various survey gear, as well as by several contracted commercial fishing vessels with NMFS scientists onboard to collect standardized data and resource samples. The area impacted by the oil was separated into grids and a sampling design was developed with sample sizes determined based on the extent of oil impact (number of days with oil). Sampling was higher in areas under oil for a longer period of time, while minimal sampling was conducted on the boundaries of the grids in areas not under any oil. Southeast Area Monitoring and Assessment Program (SEAMAP) protocols were used for all sampling to ensure standardization of data with historical resource surveys data collection by NMFS. Key commercially and recreationally important fish and crustacean species were targeted for sampling. Data was collected on all species sampled, including lengths and weights. Subsamples of targeted species were immediately wrapped in a double layer of aluminum foil and either chilled or frozen for sensory analysis. Samples were transported to the Mississippi Laboratories within one week for sensory analysis by the National Seafood Inspection Laboratory and for oil and dispersant analysis by the Northwest Fisheries Science Center.

### **1.3. Is this a one-time data collection, or an ongoing series of measurements?**

One-time data collection

### **1.4. Actual or planned temporal coverage of the data:**

2010 to 2011

### **1.5. Actual or planned geographic coverage of the data:**

W: -98, E: -81, N: 31, S: 24

Gulf of Mexico

**1.6. Type(s) of data:**

*(e.g., digital numeric data, imagery, photographs, video, audio, database, tabular data, etc.)*

Table (digital)

**1.7. Data collection method(s):**

*(e.g., satellite, airplane, unmanned aerial system, radar, weather station, moored buoy, research vessel, autonomous underwater vehicle, animal tagging, manual surveys, enforcement activities, numerical model, etc.)*

Instrument: Not applicable

Platform: NOAA ships and contracted commercial fishing vessels

Physical Collection / Fishing Gear: Various gears including longline, vertical line, trawl, plankton nets

**1.8. If data are from a NOAA Observing System of Record, indicate name of system:**

**1.8.1. If data are from another observing system, please specify:**

**2. Point of Contact for this Data Management Plan (author or maintainer)**

**2.1. Name:**

Charles J Weber

**2.2. Title:**

Metadata Contact

**2.3. Affiliation or facility:**

Mississippi Laboratory

**2.4. E-mail address:**

charles.weber@noaa.gov

**2.5. Phone number:**

228-549-1684

**3. Responsible Party for Data Management**

*Program Managers, or their designee, shall be responsible for assuring the proper management of the data produced by their Program. Please indicate the responsible party below.*

**3.1. Name:**

Charles J Weber

**3.2. Title:**

Data Steward

**4. Resources**

*Programs must identify resources within their own budget for managing the data they produce.*

**4.1. Have resources for management of these data been identified?**

Yes

**4.2. Approximate percentage of the budget for these data devoted to data management (specify percentage or "unknown"):**

0

**5. Data Lineage and Quality**

*NOAA has issued Information Quality Guidelines for ensuring and maximizing the quality, objectivity, utility, and integrity of information which it disseminates.*

**5.1. Processing workflow of the data from collection or acquisition to making it publicly accessible**

*(describe or provide URL of description):*

Lineage Statement:

As specimens are collected, total number of individual fish by species and lengths are taken and recorded into the shipboard data collections system. At the end of each survey data are reviewed for accuracy/relevance by chief scientists. Specimens that cannot be identified during the survey are identified in the laboratory. Seafood safety analyses were conducted by the National Seafood Inspection Laboratory for sensory analyses and by the Northwest Fisheries Science Center for oil and dispersants.

**5.1.1. If data at different stages of the workflow, or products derived from these data, are subject to a separate data management plan, provide reference to other plan:**

**5.2. Quality control procedures employed (describe or provide URL of description):**

Validation routines are applied during data entry to ensure the integrity of data collected. Data validation routines are also applied as data are migrated into the centralized data management system.

**6. Data Documentation**

*The EDMC Data Documentation Procedural Directive requires that NOAA data be well documented, specifies the use of ISO 19115 and related standards for documentation of new data, and provides links to resources and tools for metadata creation and validation.*

**6.1. Does metadata comply with EDMC Data Documentation directive?**

Yes

**6.1.1. If metadata are non-existent or non-compliant, please explain:**

**6.2. Name of organization or facility providing metadata hosting:**

NMFS Office of Science and Technology

**6.2.1. If service is needed for metadata hosting, please indicate:****6.3. URL of metadata folder or data catalog, if known:**

<https://inport.nmfs.noaa.gov/inport/item/29566>

**6.4. Process for producing and maintaining metadata**

*(describe or provide URL of description):*

Metadata produced and maintained in accordance with the NMFS Data Documentation Procedural Directive: <https://inport.nmfs.noaa.gov/inport/downloads/data-documentation-procedural-directive.pdf>

**7. Data Access**

*NAO 212-15 states that access to environmental data may only be restricted when distribution is explicitly limited by law, regulation, policy (such as those applicable to personally identifiable information or protected critical infrastructure information or proprietary trade information) or by security requirements. The EDMC Data Access Procedural Directive contains specific guidance, recommends the use of open-standard, interoperable, non-proprietary web services, provides information about resources and tools to enable data access, and includes a Waiver to be submitted to justify any approach other than full, unrestricted public access.*

**7.1. Do these data comply with the Data Access directive?**

Yes

**7.1.1. If the data are not to be made available to the public at all, or with limitations, has a Waiver (Appendix A of Data Access directive) been filed?****7.1.2. If there are limitations to public data access, describe how data are protected from unauthorized access or disclosure:****7.2. Name of organization of facility providing data access:**

Mississippi Laboratory

**7.2.1. If data hosting service is needed, please indicate:**

Yes

**7.2.2. URL of data access service, if known:****7.3. Data access methods or services offered:**

Contact the individual identified as the distributor for this dataset. Please include the title of the dataset and the name of the data steward when requesting a copy of this data.

**7.4. Approximate delay between data collection and dissemination:**

30 days

**7.4.1. If delay is longer than latency of automated processing, indicate under what**

**authority data access is delayed:**

## **8. Data Preservation and Protection**

*The NOAA Procedure for Scientific Records Appraisal and Archive Approval describes how to identify, appraise and decide what scientific records are to be preserved in a NOAA archive.*

### **8.1. Actual or planned long-term data archive location:**

*(Specify NCEI-MD, NCEI-CO, NCEI-NC, NCEI-MS, World Data Center (WDC) facility, Other, To Be Determined, Unable to Archive, or No Archiving Intended)*

NCEI-MS

#### **8.1.1. If World Data Center or Other, specify:**

#### **8.1.2. If To Be Determined, Unable to Archive or No Archiving Intended, explain:**

### **8.2. Data storage facility prior to being sent to an archive facility (if any):**

Mississippi Laboratory - Pascagoula, MS

### **8.3. Approximate delay between data collection and submission to an archive facility:**

365 days

### **8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?**

*Discuss data back-up, disaster recovery/contingency planning, and off-site data storage relevant to the data collection*

Data resides in the laboratories' centralized database (Oracle). Security patches are applied to the database and host environment immediately after their release. In addition, Security benchmarks are applied to the database and host environment.

Data residing in the centralized database (Oracle) is backed up nightly. Backup sets are placed on the laboratories' Networked Attached Storage (NAS) environment. Security patches/updates are immediately applied to the host environment. Data is stripped/mirrored using RAID 50 technology to protect data from disk failure. Nightly backups are preformed and files are written to magnetic tape and stored in an onsite / offsite location.

## **9. Additional Line Office or Staff Office Questions**

*Line and Staff Offices may extend this template by inserting additional questions in this section.*