

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:

POPs, Fatty acids, lipid and Stable Isotopes data - The behavioral ecology of deep-diving odontocetes in the Bahamas

1.2. Summary description of the data:

This project will use a unique set of individual-based data to quantify and model the behavioral ecology of six Department of Defense priority cetacean species in the Bahamas.

Data collected through individual photo-identification, molecular genetics, chemical markers (i.e., stable isotope ratios, persistent organic pollutants, fatty acids), satellite telemetry and acoustic recordings will be integrated to characterize the social structure, residency patterns, reproductive biology, foraging ecology and population structuring of key deep-diving cetaceans in the region. These data will be collected in collaboration with Bahamas Marine Mammal Research Organization, Southwest Fisheries Science Center, Alaska Fisheries Science Center, and the NWFSC, and will be used to model the response of these species to naval sounds.

In FY11, the NWFSC analyzed 50 biopsy blubber samples of six priority species of whales from the Bahamas for persistent organic pollutants, fatty acids, lipid classes and percent lipid, as well as the corresponding skin samples for stable isotopes of carbon and nitrogen to help describe the foraging habitats, qualitative prey preferences, and feeding stock structure of these whales. Using these previously collected Bahama whale data as a foundation, we will compare the foraging ecology of sperm, pilot, and melon-headed whales with beaked whales inhabiting the same area. Thus, in like-fashion, using a combination of advanced multivariate statistical methods, the patterns of individual fatty acids (FAs) and persistent organic pollutants (POPs) measured in the blubber of the six priority cetacean species, as well as their skin SI ratios, will be used to do the following:

- (1) Identify assemblages of individual whales that may represent stable feeding groups (both short- and long-term).
- (2) Test the extent to which each of these species exhibit site fidelity with respect to their foraging habitats

(3) Assess the extent of niche overlap among all these whale species within this ecosystem as indicated by perceived differences in their preferred prey.

Because very little is currently known about the foraging behavior of these whales, this represents a significant advance in our understanding of the trophic dynamics, population structure, and feeding ecology of all of these whales.

Measures concentrations of POPs and fatty acids, total lipid and lipid profiles, and stable isotopes of carbon and nitrogen in tissues of deep-diving cetaceans and their prey.

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:

2011-10-01

1.5. Actual or planned geographic coverage of the data:

W: -122.3062, E: -122.3062, N: 47.6449, S: 47.6449

NWFSC Montlake: NWFSC Montlake, Seattle

W: -77.1667, E: -77.1667, N: 25.5, S: 25.5

Great Bahama Canyon: Great Bahama Canyon

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.)

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:

Metadata Contact

2.2. Title:

Metadata Contact

2.3. Affiliation or facility:

2.4. E-mail address:

nmfs.nwfsc.metadata@noaa.gov

2.5. Phone number:

(206) 860-3433

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:

Gina Ylitalo

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"):

1%

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:

See Tech Memo NMFS-NWFSC-125

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):**

See Tech Memo NMFS-NWFSC-77. These data were collected and processed in accordance with established protocols and best practices under the direction of the projects Principal Investigator. Contact the dataset Data Manager for full QA/QC methodology.

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?

No

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

Missing/invalid information:

- 1.7. Data collection method(s)

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://www.fisheries.noaa.gov/inport/item/17968>

6.4. Process for producing and maintaining metadata

(describe or provide URL of description):

Metadata produced and maintained in accordance with the NOAA Data Documentation Procedural Directive:

https://nosc.noaa.gov/EDMC/DAARWG/docs/EDMC_PD-Data_Documentation_v1.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:

Northwest Fisheries Science Center (NWFS)

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

No

7.2.2. URL of data access service, if known:

<https://www.ncei.noaa.gov>

7.3. Data access methods or services offered:

At this time, contact the Data Manager for information on obtaining access to this data set. In the near future, the NWFSC will strive to provide all non-sensitive data resources as a web service in order to meet the NOAA Data Access Policy Directive (<https://nosc.noaa.gov/EDMC/PD.DA.php>).

7.4. Approximate delay between data collection and dissemination:

360 days

7.4.1. If delay is longer than latency of automated processing, indicate under what authority data access is delayed:

No Delay

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_MD

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):**

Northwest Fisheries Science Center - Seattle, WA

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

The Northwest Fisheries Science Center facilitates backup and recovery of all data and IT components which are managed by IT Operations through the capture of static (point-in-time) backup data to physical media. Once data is captured to physical media (every 1-3 days), a duplicate is made and routinely (weekly) transported to an offsite archive facility where it is maintained throughout the data's applicable life-cycle.

9. Additional Line Office or Staff Office Questions

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