

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:

Alaska Steller Sea Lion Habitat Model Satellite Telemetry and Environmental Data, 2000-2012

### 1.2. Summary description of the data:

The at-sea habitat use of Steller sea lions was modeled from location and dive behavior data obtained from the deployment of satellite-linked telemetry tags on sea lions captured in Alaska. This habitat model was considered in the 2015 review of Critical Habitat designated for Steller sea lions under the U.S. Endangered Species Act. This data set includes GPS location data collected from nine adult female Steller sea lions captured from 2010 to 2012 in the western Aleutian Islands (n=3), central Aleutian Islands (n=3), and Southeast Alaska (n=3), and Argos location data collected for 86 juvenile Steller sea lions captured and tagged with satellite depth recorders in the central (n=20) and eastern (n=27) Aleutian Islands and central Gulf of Alaska (n=39) from 2000-2005. To assess habitat use and effects on movements and dive behavior, predicted spatial locations based on processed data were linked with associated dive behavior, then compared with dynamic and static environmental variables and other covariates.

### 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:

2000 to 2012

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

W: 170, E: -127, N: 61, S: 45

Bering Sea, Aleutian Islands, Gulf of Alaska, Southeast Alaska

### 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: Animal-mounted instrument

Platform: Animal based Platform - Mammal

Physical Collection / Fishing Gear: Not applicable

**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:**

Brian Fadely

**2.2. Title:**

Metadata Contact

**2.3. Affiliation or facility:**

Alaska Fisheries Science Center

**2.4. E-mail address:**

brian.fadely@noaa.gov

**2.5. Phone number:**

206-526-6173

**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:**

Michelle Lander

**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?**

No

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

Unknown

## 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:

Data were obtained through multiple projects. Descriptions of raw telemetry data are located at InPort Catalog Item ID 27455: Alaska Steller Sea Lion and Northern Fur Seal Argos Telemetry Data Archive. Refer to Sources for specific data processing steps. Data sources: Call, K. A., B. S. Fadely, A. Greig, and M. J. Rehberg. 2007. At-sea and on-shore cycles of juvenile Steller sea lions (*Eumetopias jubatus*) derived from satellite dive recorders: A comparison between declining and increasing populations. *Deep Sea Res. (II Top. Stud. Oceanogr.)* 54: 298-310. Fadely, B. S., B. W. Robson, J. T. Sterling, A. Greig, and K. A. Call. 2005. Immature Steller sea lion (*Eumetopias jubatus*) dive activity in relation to habitat features of the eastern Aleutian Islands. *Fisheries Oceanography* 14: 243-258. Lander, M. E., D. S. Johnson, J. T. Sterling, T. Gelatt, and B. S. Fadely. 2011a. Diving behaviors and movements of juvenile Steller sea lions (*Eumetopias jubatus*) captured in the central Aleutian Islands, April 2005. In: U. S. D. o. Commerce (ed.). NOAA Technical Memorandum. p 41. Lander, M. E., T. R. Loughlin, M. G. Logsdon, G. R. VanBlaricom, and B. S. Fadely. 2010. Foraging effort of juvenile Steller sea lions (*Eumetopias jubatus*) with respect to heterogeneity of sea surface temperature. *Endangered Species Research* 10: 145-158. Lander, M. E. et al. 2009. Regional differences in the spatial and temporal heterogeneity of oceanographic habitat used by Steller sea lions. *Ecol Appl* 19: 1645-1659. Lander, M.E., M.L. Logsdon, T.R. Loughlin, and G.R. VanBlaricom. 2011b. Spatial patterns and scaling behaviors of Steller sea lion (*Eumetopias jubatus*) distributions and their environment. *Journal of Theoretical Biology* 274:74-83. Doi:10.1016/j.jtbi.2011.01.015. Loughlin, T. R., J. T. Sterling, R. L. Merrick, J. L. Sease, and A. E. York. 2003. Diving behavior of immature Steller sea lions (*Eumetopias jubatus*). *Fish B-Noaa* 101: 566-582. Pitcher, K. W. et al. 2005. Ontogeny of dive performance in pup and juvenile Steller sea lions in Alaska. *Can J Zool* 83: 1214-1231. Rehberg, M. J., and J. M. Burns. 2008. Differences in diving and swimming behavior of pup and juvenile Steller sea lions (*Eumetopias jubatus*) in Alaska. *Can. J. Zool./Rev. Can. Zool.* 86:539-553.

**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):

Multiple quality control procedures are employed throughout the data collection process. Refer to source data publications for details.

## 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/28410>

### 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?

No

#### 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?

No

#### 7.1.2. If there are limitations to public data access, describe how data are protected from unauthorized access or disclosure:

User must read and fully comprehend the metadata prior to use. Applications or inferences derived from the data should be carefully considered for accuracy.

### 7.2. Name of organization or facility providing data access:

National Centers for Environmental Information - Silver Spring, Maryland

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

Yes

**7.2.2. URL of data access service, if known:**

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

**7.3. Data access methods or services offered:**

The data set is in the process of being archived with the NOAA National Centers for Environmental Information. Once the archival process is complete and verified, the data set will be publicly available.

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

Unknown

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

Data are not automatically processed.

**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):**

Alaska Fisheries Science Center - Seattle, WA

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

Unknown

**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*

IT Security and Contingency Plan for the system establishes procedures and applies to the functions, operations, and resources necessary to recover and restore data as hosted in the Western Regional Support Center in Seattle, Washington, following a disruption.

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

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