

*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:**

Animal-borne video logger observations, depth records, and krill length data from chinstrap penguins in the Southern Ocean

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

This data set contains raw, annotated, and synthesized data used in the analysis by Hinke et al. (2021) titled "Serendipitous observations from animal-borne video loggers reveal synchronous diving and equivalent prey capture rates in chinstrap penguins" (DOI:10.1007/s00227-021-03937-5). The data derive from field work to monitor the diving and predation behaviors of two chinstrap penguins (*Pygoscelis antarcticus*) from Cape Shireff, Livingston Island (60.79°W, 62.46°S) in Antarctica. Sampling occurred from 20 December 2019 to 31 Jan 2020. The raw data include the video files and complete dive records from the deployment of animal-borne video loggers and time-depth recorders on two individual chinstrap penguins. The videos are recorded in 30-minute clips and encompass over 4.5 hours of observation for each bird. Five independent, manual annotations of each video, transcribed onto the corresponding time-depth records of each bird, respectively, document the diving and predation events observed in each video. A separate annotation file that records the presence of companion birds in each video is also included. Additionally, we include two files that were generated during the analysis of the data. The first merges each (N=5) annotation of krill consumption and dive duration for each synchronous dive. The second merges select dive characteristics from each synchronous dive. Finally, we include data on the lengths of krill eaten by penguins during the study period. The krill length data were collected via gastric lavage to characterize the prey field that was encountered by foraging penguins during the sampling season. A READ ME file fully documents each file and important header information.

### **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:**

2019-12-20 to 2020-01-03

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

W: -64, E: -43, N: -58, S: -65

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

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

Video (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: Little Leonardo DVL400M065, Lotek LAT1800FP

**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:**

Jefferson Hinke

**2.2. Title:**

Metadata Contact

**2.3. Affiliation or facility:****2.4. E-mail address:**

Jefferson.Hinke@noaa.gov

**2.5. Phone number:**

858-334-2825

**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:**

Sam Woodman

**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:

Raw data are collected by researchers at land based stations, entered into data files, reviewed for QA/QC and later on shore-based servers.

**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):**

**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:

- 5.2. Quality control procedures employed

**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/65040>

**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](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:

Southwest Fisheries Science Center (SWFSC)

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

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

<https://www.nodc.noaa.gov/archive/arc0183/0239297/1.1/data/0-data/>

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

<https://www.ncei.noaa.gov/archive/accession/0239297>

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

Two years

#### 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\_CO

**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):**

Southwest Fisheries Science Center - La Jolla, CA

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

Two years

**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 are stored on a server at the Southwest Fisheries Science Center which has all appropriate access controls, and archived at the NCEI with assigned DOI (see title section for DOI information).

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

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