

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:

Distribution, growth, and condition of salmonids in the central California Current Ecosystem.

### 1.2. Summary description of the data:

The Fisheries Ecology Division of NOAA's SWFSC conducted annual surveys of salmon and their ocean habitat in the coastal waters of northern California and southern Oregon from 1998-2016. We used a surface trawl to collect juvenile and subadult salmonids, including several ESA-listed populations of Chinook and coho salmon and steelhead. We also quantified other coastal pelagic fish and invertebrates that co-occur with salmon, and we measured spatially matched biological and physical oceanographic variables. Juvenile salmon were frozen at sea and transported back to shore for further analysis. Scales, DNA, otoliths, stomach contents, blood plasma, and implanted tags (if present) were retained. The majority of older salmon and bycatch species were released alive at sea. Additional data recorded during our survey included seabird counts, plankton samples, echosounder readings, and CTD profiles of temperature, salinity, chlorophyll, transmissivity, and PAR.

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

Ongoing series of measurements

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

2010 to Present

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

W: -125, E: -120, N: 42, S: 36  
Northern California

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

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

### 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: Seabird CTD, Simrad EK60, TSG, TDR, GO flowmeter

Platform: Research vessel

Physical Collection / Fishing Gear: 264 Rope trawl, bongo net, vertical net, Methot trawl, Niskin bottles, Secchi disk

**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:**

Jeff Harding

**2.2. Title:**

Metadata Contact

**2.3. Affiliation or facility:**

**2.4. E-mail address:**

Jeff.Harding@noaa.gov

**2.5. Phone number:**

(831) 420-3938

**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:**

Jeff Harding

**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"):**

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 are collected at sea and recorded on paper datasheets by observers, or recorded directly to digital data files in the case of electronic instruments. Back on shore, paper datasheets are transcribed to computer files. All data files are proofread and checked for errors and completeness. Final versions are error-free.

Process Steps:

- Data are collected at sea and recorded on paper datasheets by observers, or recorded directly to digital data files in the case of electronic instruments.
- Back on shore, paper datasheets are transcribed to computer files. All data files are proofread and checked for errors and completeness. Final versions are error-free.
- In the case of laboratory analyses of specimens or samples previously collected at sea, examinations or instruments are used to obtain data. Examination data are initially recorded on paper, then entered to computer files and proof-read for accuracy and completeness. Data from digital instruments are usually transferred directly to computer storage files and checked for accuracy.

**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):

Data are collected at sea and recorded on paper datasheets by observers, or recorded directly to digital data files in the case of electronic instruments. Back on shore, paper datasheets are transcribed to computer files. All data files are proofread and checked for errors and completeness. Final versions are error-free.

## 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://www.fisheries.noaa.gov/inport/item/29801>

**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:**

<http://128.114.3.187>

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

Contact Jeff Harding for direct access via ODBC to the database.

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

1 year

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

Data checking and loading into final database.

**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)*

To Be Determined

**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:**

Awaiting guidance from headquarters.

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

Southwest Fisheries Science Center - Santa Cruz, CA

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

1 year

**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 is backed up weekly and stored in a secure location.

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

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