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:

West Coast Groundfish Bottom Trawl Survey Data - 2020 West Coast Groundfish Bottom Trawl Survey and indices of abundance

1.2. Summary description of the data:

The Fisheries Research Survey team proposes to conduct the West Coast Groundfish Bottom Trawl Survey from May to October 2019. The goal of the survey is to ensure the sustainability of marine fisheries with a focus on ending overfishing. The groundfish fishery supports management for 90+ commercially fished stocks off Washington, Oregon, and California and is the primary source of fishery-independent data necessary for stock assessments of managed groundfish species inhabiting trawlable habitat along the upper continental slope and shelf. The survey provides data on abundance, spatial distributions, sex, length, maturity, weight, and age structure of groundfish in trawlable habitats. The survey also collects key environmental data (temperature, depth, dissolved oxygen, turbidity, in vivo fluorescence, irradiance, wind speed, location) in association with each tow for use in ecosystem based fisheries management.

This data set contains information on date, time, vessel, trawl identification (i.e. unique number), trawl performance, location, depth, area swept, trawl duration, temperature, species, haul weight, average individual weight, sex, length, length method, fish age and age structure.

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:

1998-04-01 to Present, 1998-04-01 to Present, 1998-04-01 to Present, 1998-04-01 to Present, 1998-04-01 to Present

1.5. Actual or planned geographic coverage of the data:

W: -124.0472, E: -122.3062, N: 47.6449, S: 44.6229
Northwest Fisheries Science Center: office and laboratory site for sample processing and analysis

W: -122.3062, E: -122.3062, N: 47.6449, S: 47.6449
Northern California Current System: California Current System - US-canada border to US-Mexico border at depths of 55 - 1280 m

W: -124.0472, E: -122.3062, N: 47.6449, S: 44.6229
Hatfield Marine Science Center: office and laboratory site for sample processing and analysis

W: -124.0472, E: -122.3062, N: 47.6449, S: 44.6229
Northern California Current System: Samples taken and recorded

W: -124.0472, E: -122.3062, N: 47.6449, S: 44.6229
Northern California Current System: Observations made and recorded

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: Anemometer, Bottom Contact Sensor, CTD, Depth-Temperature Sensor, Net Mensuration, Satellite Compass, Temperature Sensor
Platform: Water based Platforms - Watercraft - Manned Watercraft - Vessel (Ship) - Fishing Vessels - Trawlers - TO - 01.0.0
Physical Collection / Fishing Gear: Bottom Sampler

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:
Northwest Fisheries Science Center (NWFSC)

2.2. Title:
Metadata Contact

2.3. Affiliation or facility:
Northwest Fisheries Science Center (NWFSC)

2.4. E-mail address:
nmfs.nwfsc.metadata@noaa.gov

2.5. Phone number:
206-860-3200

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:

Beth Horness

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"):

10

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 is captured using at-sea data collection software that records sensor time-series as well as captures fish catch and individual compositions.

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):

Extensive data review is accomplished using time-series data analysis tools to review the quality of the tows, as well as significant SQL code to confirm fish sampling quality.

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/18418

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 (NWFSC)

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

7.2.2. URL of data access service, if known:
https://www.nwfsc.noaa.gov/data/api/v1/source/trawl.catch_fact/selection.json
https://www.nwfsc.noaa.gov/data/api/v1/source/trawl.individual_fact/selection.json
https://www.nwfsc.noaa.gov/data/api/v1/source/trawl.operation_haul_fact/selection.json

https://www.webapps.nwfsc.noaa.gov/apex/parrdata/inventory/tables/table/trawl_catch
https://www.webapps.nwfsc.noaa.gov/apex/parrdata/inventory/tables/table/trawl_haul_characteristi
https://www.webapps.nwfsc.noaa.gov/apex/parrdata/inventory/tables/table/trawl_specimens

7.3. Data access methods or services offered:

PDR is submitted

7.4. Approximate delay between data collection and dissemination:

120

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

QA/QC is performed during this time.

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:

120

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.