

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:

EPA2011 Microbial & nutrient database - Evaluating the ecological health of Puget Sound's pelagic foodweb

1.2. Summary description of the data:

To evaluate effects of human influence on the health of Puget Sound's pelagic ecosystems, we propose a sampling program across multiple oceanographic basins measuring key attributes of the pelagic foodweb. We will quantify seasonal abundance and composition of pelagic biota from lower trophic levels (e.g., bacteria and phytoplankton) to middle trophic levels (e.g., zooplankton, small pelagic fishes, and jellyfish), as well as assess the individual condition of forage fish and juvenile salmon.

The goals of this program:

- 1) Determine how foodweb endpoints vary across natural and anthropogenic gradients.
- 2) Determine how these characteristics vary across Puget Sound.
- 3) Evaluate a number of biological metrics for monitoring ecosystem health.

These outputs will improve our basic understanding of pelagic ecology in Puget Sound, better define what comprises a healthy pelagic ecosystem in Puget Sound, determine foodweb-relevant indicators that are sensitive to human influence, and help prioritize regional protection and restoration efforts. Work is conducted by NOAA personnel and contractors in collaboration with tribal partners (Squaxin, Port Gamble/S'Klallam), undergraduate research interns, and citizen volunteers.

Filemaker Pro database containing microbial abundance, heterotrophic production, chlorophyll a, and inorganic nutrients.

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:

2010-07-01 to 2012-09-30, 2010-07-01 to 2012-09-30, 2010-07-01 to 2012-09-30, 2010-07-01 to 2012-09-30, 2010-07-01 to 2012-09-30, 2010-07-01 to 2012-09-30, 2010-07-01 to 2012-09-30, 2010-07-01 to 2012-09-30

1.5. Actual or planned geographic coverage of the data:

W: -122.5107, E: -122.1513, N: 48.2364, S: 47.8932

Whidbey Basin South

W: -123.0955, E: -122.5451, N: 47.4118, S: 47.0437

South PS Basin: South Puget Sound Basin

W: -122.735, E: -122.3647, N: 48.4585, S: 48.015

Whidbey Basin North

W: -123.1596, E: -122.6135, N: 47.8689, S: 47.3248

Hood Canal

W: -122.7092, E: -122.3361, N: 47.8141, S: 47.511

North Central PS Basin: North Central Puget Sound Basin

W: -122.5925, E: -122.3238, N: 47.511, S: 47.2401

South Central PS Basin: South Central Puget Sound Basin

W: -122.8013, E: -122.3287, N: 48.224, S: 47.8032

Admiralty Inlet

W: -123.3239, E: -122.4252, N: 49.0022, S: 48.2733

Rosario Basin

1.6. Type(s) of data:

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

Other

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:**

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:

Linda D Rhodes

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"):

0

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:

Volumetric calculations, decay calculations. These data were collected and processed in accordance with established protocols and best practices under the direction of the project's Principal Investigator. Contact the dataset Data Manager for full QA/QC methodology.

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):

Range checking, standard curves. These data were collected and processed in accordance with established protocols and best practices under the direction of the project's 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/18566>

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.webapps.nwfsc.noaa.gov/apex/parr/epa2011_arisa/data/page/
https://www.webapps.nwfsc.noaa.gov/apex/parr/epa2011_physical_nutrients_microbes/data/page/
https://www.webapps.nwfsc.noaa.gov/apex/parrdata/inventory/tables/table/epa2011_arisa
https://www.webapps.nwfsc.noaa.gov/apex/parrdata/inventory/tables/table/epa2011_physical_nutri

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 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:

0 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)

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:

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

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.