

OR Shelf Buoy

Please provide the following information and submit to the NOAA DM Plan Repository.

Reference to Master DM Plan (if applicable)

URL of higher-level DM Plan (if any) as submitted to DM Plan Repository:

NANOOS DMP: <https://www.nanoos.org/documents/certification/DMP/2023/NANOOS-DMP.pdf>

1. General Description of Data to be Managed

1.1. Name of the Data, data collection Project, or data-producing Program:

Oregon Shelf Buoy CB06, Physical Oceanography

1.2. Summary description of the data:

We capture time series of ocean and meteorological data at a fixed mid-shelf location off Oregon, presently at CB-06, a site about 6 nautical miles offshore from Coos Bay. A typical setting lasts six months, and measures vertical profiles of ocean currents, temperature and salinity at locations in the water column, and meteorological data (wind speed and direction, air temperature, barometric pressure, etc.). A measurement of dissolved oxygen, about 10m off the bottom, also is made most years.

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

1.4. Actual or planned temporal coverage of the data:

Intend year-round temporal coverage.

1.5. Actual or planned geographic coverage of the data:

Presently, CB-06, located about 6 nmile off Coos Bay, Oregon

1.6. Type(s) of data:

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

Digital numerical data.

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.)

Moored buoy plus weather station.

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: Michael Kosro

2.2. Title: Professor of Oceanography

2.3. Affiliation or facility: College of Earth, Ocean and Atmospheric Sciences, Oregon State University

2.4. E-mail address: mike.kosro@oregonstate.edu

2.5. Phone number: 541-737-3079

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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: Michael Kosro
- 3.2. Position Title: Professor of Oceanography
- 3.3. Name of current Position holder:

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"): 15% (estimated)

5. Data Lineage and Quality

NOAA has issued Information Quality Guidelines¹ 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*):

The first use of the data is from the real-time stream. These data are examined for gaps, inspected for out-of-bounds values, compared with nearby measurements where appropriate (e.g. barometric pressure, sea surface temperature, etc); data streams which fail this QC are not put forward. Real-time data are made available in near-real-time through the NANOOS Visualization System (NVS).

- 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*):

At present, data in our long-term archives is awaiting quality control review. This process will require considerable analyst time, which is not presently available. All data requests are filled with raw data and the user is advised to use the data with care because additional quality control may be required.

6. Data Documentation

The EDMC Data Documentation Procedural Directive² 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?
 - 6.1.1. If metadata are non-existent or non-compliant, please explain:
- 6.2. Name of organization or facility providing metadata hosting: Kosro Lab, OSU.
 - 6.2.1. If service is needed for metadata hosting, please indicate:

¹ http://www.cio.noaa.gov/services_programs/IQ_Guidelines_030414.html

² <https://www.nosc.noaa.gov/EDMC/PD.DD.php>

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6.3. URL of metadata folder or data catalog, if known:

6.4. Process for producing and maintaining metadata (*describe or provide URL of description*):

Data are maintained according to instrument serial number, which provides information about each sensor.

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 Directive³ 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? N/A

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

7.2. Name of organization of facility providing data access: NANOOS Visualization System (NVS) provides graphical and spreadsheet access for recent data.

7.2.1. If data hosting service is needed, please indicate: It will be needed for archival data.

7.2.2. URL of data access service, if known:

<https://nvs.nanoos.org/Explorer>

<https://nvs.nanoos.org/Explorer?snapshot=39135c7cba25d6d2e4e221a9e2919>

7.3. Data access methods or services offered:

7.4. Approximate delay between data collection and dissemination:

Latency of automated processing for real-time-reporting instruments. Internally recording instruments have longer latency due to need to recover, download, and process the data.

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 NODC, NCDC, NGDC, World Data Center (WDC) facility, Other, To Be Determined, Unable to Archive, or No Archiving Intended) TBD

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:

³ Data Access Directive currently in review; URL to be added.

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

Computer storage plus backup disks at Kosro lab at OSU.

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

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:

Live on disk/computer, plus 2 independent automated backup disks.

9. Additional Line Office or Staff Office Questions

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