

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:

Deep-water exploration and research in the Alaska region: peer-reviewed literature and technical reports conducted within the United States Exclusive Economic Zone, 2000-01 to 2020-06

1.2. Summary description of the data:

This project is a spatial bibliography of deep-water (greater than 200 meters depth) studies conducted in the Alaska region within the U.S. Exclusive Economic Zone from 2000 to 2020. Six academic disciplines are included: biology and ecology of benthic and pelagic taxa, chemistry, physical oceanography, geology, marine cultural heritage, and resource management. Seven geographic regions are defined according to the NOAA Alaska Fisheries Science Center management areas*: Southeast and Central Gulf of Alaska, Aleutian Islands, Eastern and Northern Bering Sea, Chukchi Sea, and Bering Sea. This project also includes information, if available, about the sampling methods and collected data types from each study.

*These regions do not define exploration priorities for the NOAA Office of Ocean Exploration and Research.

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:

2020

1.5. Actual or planned geographic coverage of the data:

W: 167.64, E: -130, N: 74.79, S: 47.88

Spatial extent includes marine waters of Alaska, both State waters and Federal Exclusive Economic Zone (EEZ)

1.6. Type(s) of data:

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

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:**

David Moe Nelson

2.2. Title:

Metadata Contact

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

david.moe.nelson@noaa.gov

2.5. Phone number:**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:

NCCOS Scientific Data Coordinator

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?**4.2. Approximate percentage of the budget for these data devoted to data management (specify percentage or "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:

This spatial bibliography was built from an annotated bibliography by the NOAA Central Library and a spatial framework based on the NOAA Alaska Fisheries Science Center survey and management regions*. Each bibliographic entry was scanned for information on academic discipline, geographic region, site locations, sampling methods, and collected data types. This information was then linked to the spatial framework in order to map and create query options using an ArcGIS platform. *These regions do not define exploration priorities for the NOAA Office of Ocean Exploration and Research.

Process Steps:

- 2020-09-01 00:00:00 - In collaboration with the NOAA Office of Ocean Exploration and Research, the NOAA Central Library published an annotated bibliography on deep water (greater than 200 meters) research and exploration conducted in the Alaska region from 2000 to present. The annotated bibliography focused on peer-reviewed publications and other technical reports by U.S. and international scientists in Alaskan waters within the U.S. Exclusive Economic Zone. Six disciplines of interest were identified: (1) biology and ecology of benthic and pelagic taxa (from microbes to megafauna), (2) chemistry, (3) physical oceanography, (4) geology, (5) marine cultural heritage, and (6) management with major themes identified and summarized. (Citation: Alaska Exclusive Economic Zone: Ocean Exploration and Research Bibliography)
- 2020-10-07 00:00:00 - The NOAA National Centers for Environmental Information (NCEI) created a polygon layer based on the NOAA Alaska Fisheries Science Center survey and management regions to provide a spatial framework for this spatial bibliography. The Northern Bering Sea and the Southeastern Gulf of Alaska are additionally included as separate regions as an emerging management area of interest and as an area with specific scientific interests, respectively. These regions do not define exploration priorities for the NOAA Office of Ocean Exploration and Research. (Citation: Alaska Regions)
- 2021-01-01 00:00:00 - The NOAA National Centers for Coastal Ocean Science (NCCOS) parsed information from the annotated bibliography into related data tables, joined by Unique IDs (see Child Items / Entities and Attributes for details). Information captured in the tables includes citation, URL (if available), academic discipline, geographic region, sampling method, collected data types, and location (if available). These data tables were then joined with the polygon layer to create a geodatabase in ArcGIS. The geodatabase was used to create an interactive online tool in ArcGIS Online. (Citation: Alaska Exclusive Economic Zone: Ocean Exploration and Research Bibliography)

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:

- 1.7. Data collection method(s)
- 4.1. Have resources for management of these data been identified?
- 4.2. Approximate percentage of the budget for these data devoted to data management
- 5.2. Quality control procedures employed
- 7.1. Do these data comply with the Data Access directive?
- 7.1.1. If data are not available or has limitations, has a Waiver been filed?
- 7.1.2. If there are limitations to data access, describe how data are protected
- 7.4. Approximate delay between data collection and dissemination
- 8.1. Actual or planned long-term data archive location
- 8.2. Data storage facility prior to being sent to an archive facility
- 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?

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/62981>

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?

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:

National Centers for Coastal Ocean Science (NCCOS)

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

7.2.2. URL of data access service, if known:

<https://maps.coastalscience.noaa.gov/alaskaspatialbibliography/>

7.3. Data access methods or services offered:

Data can be accessed through the interactive web map at the URL provided in in Distribution Information. Questions or special requests can be directed to the Point of Contact or the Metadata Contact.

7.4. Approximate delay between data collection and dissemination:

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)

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):

Silver Spring, MD

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

9. Additional Line Office or Staff Office Questions

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