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:
   Olympic Coast National Marine Sanctuary - hab110_0204b - Habitat polygons for survey area 0204b

   1.2. Summary description of the data:
   Benthic habitat polygon coverages are being created for the Olympic Coast National Marine Sanctuary (OCNMS). OCNMS has collected multibeam backscatter, multibeam bathymetry, bottom grab and video data to produce polygon coverages describing seafloor substrate for various areas within the sanctuary. A maximum likelihood classification rule was used to segment the acoustic imagery using local fourier histogram texture features calculated from multibeam xyz data along with multibeam backscatter intensity values. Video and sediment grab information was used to validate the classification. The habitat polygons have attributes for megahabitat, bottom induration, mesohabitat, macrohabitat, slope, complexity, and biology (where direct observations were available), polygon area and perimeter.

   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:
   2007-12-31

   1.5. Actual or planned geographic coverage of the data:

   1.6. Type(s) of data:
   (e.g., digital numeric data, imagery, photographs, video, audio, database, tabular data, etc.)
   Vector digital 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.)
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:
   OCNMS GIS Coordinator

2.2. Title:
   Metadata Contact

2.3. Affiliation or facility:

2.4. E-mail address:
   olympiccoast@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:
   OCNMS GIS 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):
Process Steps:
- A mean and standard deviation was calculated for each data point produced from the 0-7 feature vectors of
- A standard deviation surface was calculated from a 1m multibeam dtm using a 3x3 neighborhood analysis window.
- A multibeam backscatter intensity image was converted to arc ascii grid format.
- Using ArcGis Spatial Analyst, multivariate signatures were collected from 8 separate grids to segment the
- Using ArcGis Spatial Analyst, a maximum likelihood (ML) classification was performed on the 8 previously
- Seafloor slope was calculated from multibeam xyz data and reclassed into four groups (0-5%, 5-15%,
- Standard deviation surface was reclassed into 3 groups (0-0.2, 0.2-0.5, and > 0.5)
- Results of the MLClassify procedure, slope reclass and st_dev reclass were all converted to feature polygons.
- MLClass feature, slope feature and st_dev features were combined using UNION.
- Using groundtruthing information obtained from separate point coverages, polygons were further split or added to provide additional microhabitat or biological information where available.

5.1. 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:
Data Management Plan

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://inport.nmfs.noaa.gov/inport/item/40051

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:

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

7.2.2. URL of data access service, if known:
   http://olympiccoast.noaa.gov/science/habitatmapping/habitatmapping.html#datacatalog.html

7.3. Data access methods or services offered:

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):
   Office of National Marine Sanctuaries - 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.