

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:

U.S. Coastal Lidar Elevation Data - Including The Great Lakes And Territories, 1996 - Present

1.2. Summary description of the data:

Many different partners and groups, and several Center-led data projects, have contributed to the lidar data collection housed and distributed by the NOAA Office for Coastal Management. The data span more than two decades and were collected using many different sensors. The collection includes data from topographic and bathymetric lidar sensors. Data are available for all of the coastal states and range from shoreline strips to full county coverage. The products have been delivered to the Center in various formats, projections, datums, and units. Once received, the data are reviewed, checked for errors, and standardized to LAZ format, geographic coordinates and ellipsoid heights in meters. Data are on a NAD83 or ITRF realization depending upon the collection specifics.

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:

1996 to Present, 2006 to Present

1.5. Actual or planned geographic coverage of the data:

W: -178.3, E: -64.5, N: 68.35, S: -14.56

W: 144.6166666666, E: 144.9625, N: 13.68583333333, S: 13.22416666667

Guam

W: 145.11666666667, E: 146.08333333333, N: 16.03, S: 14.0475

Commonwealth of the Northern Marianas Islands

1.6. Type(s) of data:

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

Point cloud (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:**

NOAA Office for Coastal Management (NOAA/OCM)

2.2. Title:

Metadata Contact

2.3. Affiliation or facility:

NOAA Office for Coastal Management (NOAA/OCM)

2.4. E-mail address:

coastal.info@noaa.gov

2.5. Phone number:

(843) 740-1202

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:**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"):

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:

Data are received from contracted collections, other NOAA offices, or other federal, state, or local agencies. The data are standardized for ingest into the Digital Coast Data Access Viewer and made available to the public.

Process Steps:

- Lidar data are obtained from another source or through NOAA contract. Information about the data is gathered, usually from metadata and project reports from the lidar provider. The primary information necessary includes: 1) projection 2) datums 3) geoid model 4) acquisition dates 5) units 6) classification scheme 7) vertical accuracy
- Data are standardized to geographic coordinates of the horizontal datum they originated in. Vertical values are converted to ellipsoid heights in meters by reversing the datum operation that was originally applied. Data are converted to LAZ format if they are not already in it.
- Data are ingested into the Digital Coast Data Access Viewer. This includes: 1) verification that the point classifications found match the expected classifications based on the metadata or reports. 2) data fall within the expected bounds. 3) vertical ranges are recorded for each data tile and point class. 4) geographic bounds for each tile are recorded. 5) point classification table used is recorded.

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)
- 3.1. Responsible Party for Data Management

- 5.2. Quality control procedures employed
- 7.4. Approximate delay between data collection and dissemination
- 8.3. Approximate delay between data collection and submission to an archive facility

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/48242>

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:**

NOAA Office for Coastal Management (NOAA/OCM)

7.2.1. If data hosting service is needed, please indicate:**7.2.2. URL of data access service, if known:**

<https://noaa-nos-coastal-lidar-pds.s3.amazonaws.com/entwine/stac/catalog.json>
<https://noaa-nos-coastal-lidar-pds.s3.amazonaws.com/laz/index.html>

<https://coast.noaa.gov/dataviewer>

7.3. Data access methods or services offered:

Lidar data can be obtained on-line at the following URL: <http://www.coast.noaa.gov/dataviewer/> The lidar data is dynamically generated based on user-specified parameters.
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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)

NCEI_NC

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 for Coastal Management - Charleston, SC

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

Source data are backed up to the Azure cloud or the received hard drives are stored.
After ingestion, data are also backed up to Azure on a weekly basis.

9. Additional Line Office or Staff Office Questions

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