

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:**

2011 FEMA Lidar: Cordova, Alaska

1.2. Summary description of the data:

Bare Earth LiDAR point cloud data provided for this project is compliant with FEMA Guidelines and Specifications Procedure Memorandum 61.

LiDAR derived products for two areas of interest within the Cordova, Alaska area, consisting of 32 square miles, were developed to support coastal or riverine H&H analysis and floodplain boundary delineation.

The NOAA Office for Coastal Management (OCM) downloaded this data set from this AK DGGS site:

<https://elevation.alaska.gov/>

These files were processed to the NOAA Digital Coast Data Access Viewer (DAV) and AWS S3. The total number of files downloaded and processed was 17.

No metadata record was provided with the data. This record is populated with information from the FEMA Starr technical and QA reports downloaded from the Alaska Dept. of Geological and Geophysical Elevation Portal.

In addition to the lidar point data, the bare earth Digital Elevation Model (DEM) data at a 1 meter grid spacing, created from the lidar point data are also available from the NOAA Digital Coast. Links to these data are provided in the URL section of this metadata record.

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:

2011-09-23, 2011-09-25

1.5. Actual or planned geographic coverage of the data:

W: -145.814597, E: -145.604905, N: 60.568287, S: 60.51737

1.6. Type(s) of data:

(e.g., digital numeric data, imagery, photographs, video, audio, database, tabular data, etc.)
Model (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 were collected by Aerometric, Inc. for FEMA. OCM downloaded the data from the Alaska DGGs Elevation Portal and processed the data to be available for custom download from the NOAA Digital Coast Data Access Viewer (DAV) and for bulk download from AWS S3.

Process Steps:

- 2012-01-01 00:00:00 - Process Steps For products derived from Cordova, Alaska LiDAR Data: 1-Create Cordova, AK ESRI file geodatabase feature dataset with NAD_1983_UTM_Zone_6N projection. 2-Use ESRI 3D analyst tool LAS to multipoint and created bare earth multipoint featureclass stored within Cordova, AK file geodatabase feature dataset. 3-Use ESRI Arc Catalog to create an ESRI terrain dataset stored within Cordova, AK file geodatabase feature dataset. The multipoints were added to the terrain as mass points using the shape as the height source and the study area polygon was added to the terrain as a soft clip without any height source. 1 meter or 3.2808399 ft average point spacing used. This was determined from Cordova, AK acquisition metadata. 4-Create Bare Earth DEM file geodatabase for Cordova, AK 5-Use 3D analyst tool Terrain to raster to create 2 meter DEM and store within Cordova, AK Bare Earth DEM file geodatabase. 6-Create Raster Index Polygon 7-Using ERDAS Imagine split 2 meter AOI DEM into GeoTif Format based on raster index. 8-Using ArcCatalog converted GeoTif DEMs into Ascii raster format. 9-Create Cordova, AK Cartographic Contours and Analysis Contours file geodatabase feature datasets with NAD_1983_UTM_Zone_6N projection. 10-Use ESRI spatial analyst neighborhood tool focal statistics (mean statistic using circle with 3 cell radius) on each GeoTif bare earth DEM. 11-Use ESRI spatial analyst surface tool Contour to create 2ft contour from focal mean GeoTif DEMs and stored within Cordova, AK Cartographic Contours file geodatabase feature dataset. 12-Use ESRI spatial analyst neighborhood tool focal statistics (sum statistic using weighted kernel) on each GeoTif bare earth DEM. Weighted Kernel: 3 3 .005 .005 .005 .005 .960 .005 .005 .005 .005 13-Use ESRI spatial analyst surface tool Contour to create 2ft contour from focal sum GeoTif DEMs and stored within Cordova, AK Analysis Contours file geodatabase feature dataset.
- 2022-09-02 00:00:00 - The NOAA Office for Coastal Management (OCM) downloaded 17 laz files from the Alaska DGGs Elevation Portal at: <https://elevation.alaska.gov/>. The files were in UTM Zone 6 (NAD83), meters coordinates and were in NAVD88 (

Geoid09) elevations in feet. The point classifications were: 2 - Ground, 8 - Model Key Point. OCM processed all classifications of points to the Digital Coast Data Access Viewer (DAV). Classes available on the DAV are: 2, 8. No metadata record was provided with the data. This record is populated with information from the FEMA Starr technical and QA reports downloaded from the Alaska Dept. of Geological and Geophysical Elevation Portal. OCM performed the following processing on the data for Digital Coast storage and provisioning purposes: 1. An internal OCM script was run to check the number of points by classification and by flight ID and the gps and intensity ranges. 2. Internal OCM scripts were run on the laz files to convert from orthometric (NAVD88) elevations to ellipsoid elevations using the Geoid09 model, to convert from UTM Zone 6 (NAD83), meters coordinates to geographic coordinates, to convert from vertical units of feet to meters, to assign the geokeys, to sort the data by gps time and zip the data to database and to AWS S3.

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
- 7.1.1. If data are not available or has limitations, has a Waiver been filed?
- 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/67815>

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://coast.noaa.gov/dataviewer/#/lidar/search/where:ID=9577/details/9577>

<https://noaa-nos-coastal-lidar-pds.s3.amazonaws.com/laz/geoid12b/9577/index.html>

7.3. Data access methods or services offered:

Data is available online for bulk and custom downloads.

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_CO

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

Data is backed up to tape and to cloud storage.

9. Additional Line Office or Staff Office Questions

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