

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:

2010 NOAA NGS Ortho-rectified Color Mosaic of Pensacola Bay, FL - FL0703 - Phase II - Pensacola Bay

1.2. Summary description of the data:

Data set contains 2.5km by 2.5km digital orthophotography mosaics. The digital orthophotos in this series have a nominal ground resolution of 1 meter. The digital orthophoto mosaics are three band, 8-bit GeoTIFFs with pyramids and are color balanced to be uniform while still maintaining as much of the original color and appearance as practical. The source imagery was flown on February 6-7, 2010 with a WILD camera with a focal length of 153.28mm. The film was captured by NOAA at a negative scale of 1" = 2,500' or a nominal scale of 1:30,000. Aerotriangulation was performed in BINGO as full bundle block adjustments. The project area extends from Big Lagoon to Navaree Beach and includes Pensacola Bay, Escambia Bay, and East Bay; as well as portions of Santa Rosa Sound, and Santa Rosa Island and various small bays and tributaries to the bays.

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:

2010-02-06 to 2010-02-07

1.5. Actual or planned geographic coverage of the data:

W: -87.4943411, E: -86.7658356, N: 30.71032, S: 30.2582981

1.6. Type(s) of data:

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

NGS Communications and Outreach Branch

2.2. Title:

Metadata Contact

2.3. Affiliation or facility:

NGS Communications and Outreach Branch

2.4. E-mail address:

ngs.infocenter@noaa.gov

2.5. Phone number:

(301) 713-3242

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?**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:

- 2010-01-01 00:00:00 - Photo Science's digital orthorectification process relies on four primary production data sources including digital aerial imagery, camera calibration data, ground and airborne control/aerotriangulation data, and the existing DEM as described above. Photo Science rectified all of the image frames to minimize the effects of radial displacement and to ensure radiometric consistency. The rectification process employed a cubic convolution re-sampling method, which sharpens the edges of linear features by sampling 16 of the closest pixels and performs a weighted adjustment. Intergraph OrthoPro software was used to accomplish the rectification of the individual frames. Mosaicking was also accomplished using OrthoPro software. Image blocks were processed using two distinct tonal matching functions. Each image was processed to remove any hotspots in the middle of the frame. During the collection of aerial imagery, more light enters the lens from directly below the camera than does from the corners of the frame. Even though filters are designed to minimize this effect, some hotspots still can occur. Additionally, all of the frames underwent a histogram comparison process and then were matched to provide a seamless tone image. For optimal production performance Photo Science initiated an automatic seamline creation strategy for image mosaicking. Auto-generated seamlines are reviewed and manually adjusted to avoid buildings and other features depicting discontinuity. The mosaic was then reprocessed using manual seamlines to maximize image quality. During the mosaicking process, seamlines were feathered to provide a smooth transition from one image to another. Photo Science utilized a combined automated / manual methodology for maximum cost efficiency and image quality. Tonal matching was accomplished by comparing pixel values in the overlap area of all images. The software modified the histograms of the individual images to achieve an overall mosaic, which will had a uniform tone throughout the images. Orthomosaic files were tiled to a ground distance of 2.5 km by 2.5 km with a ten (10) meter buffer (overlap) around all four edges of the tile. The final format of the tile index was a polygon shapefile projected to NAD 83 in geographic coordinates.

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
- 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
- 7.3. Data access methods or services offered
- 7.4. Approximate delay between data collection and dissemination
- 8.1. Actual or planned long-term data archive location
- 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/48791>

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:

NGS Communications and Outreach Branch

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/#/imagery/search/where:ID=415>

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

https://coastalimagery.blob.core.windows.net/digitalcoast/PensacolaFL_RGB_2010_415/index.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 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

9. Additional Line Office or Staff Office Questions

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