

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:**

NCCOS Assessment: Underwater Video for Ground Validation and Accuracy Assessment of Benthic Habitat Maps of the Insular Shelf South of St. Thomas and St. John, U.S. Virgin Islands, 2010-03-20 to 2017-02-10

1.2. Summary description of the data:

The presence and absence of the four substrate and four biological cover types were documented at 1,353 locations on the insular shelf south of St. Thomas and St. John. At each location, an underwater camera system was used to collect high definition (HD) video at 30 frames per second at 1080x1920 resolution. This GIS dataset depicts the location of these underwater videos, as well as the name, location, time collected, and the presence and absence of the substrate and cover types. A portion of these underwater videos (n=1,005) were used to develop the habitat predictions and the composite habitat map. A separate subset of these underwater videos (n=348) were used to assess the performance of the habitat predictions and accuracy of the composite habitat map.

For more details, see Costa et al. 2017 and Costa et al. 2018.

Keywords: Ground Validation; Accuracy Assessment; Acropora Cervicornis; Acropora Palmata; Bathymetry; Benthic Habitat; Coastal Ocean Science; Coral Reef; Insular Shelf; Seagrass; Seaviewer; Snorkel; Trimble GeoXH; Underwater Video.

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:

2010-03-20 to 2017-02-10

1.5. Actual or planned geographic coverage of the data:

W: -65.2605, E: -64.6584, N: 18.31073, S: 18.12015

1.6. Type(s) of data:

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

NCCOS Scientific Data Coordinator

2.2. Title:

Metadata Contact

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

NCCOS.data@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):

Process Steps:

- The process for collecting both the GV and AA data was identical at each site in the field. Sites were accessed via small boat using a hand-held Garmin 76 global positioning system (GPS) unit. Once the drop camera was deployed, boat location and drift was recorded every five seconds for the duration of the underwater video using a Trimble GeoXH GPS receiver. As the video camera was deployed to the bottom, the presence and absence of the five substrate and four cover types were recorded at each site in real time on the Trimble GeoXH. Once back in the office, GPS data were post-processed and differentially corrected using the closest Continually Operating Reference System (CORS) station, which were on St. Thomas (station STVI), Culebra Island, Puerto Rico (station CUPR) and St. Croix (station CR01). All underwater videos were reviewed a second time by benthic experts and the presence (1) and absence (0) of each substrate and cover type were confirmed in the office. Multiple substrate and cover types were often present at each site. For a complete description of the processing and analysis methods see Costa et al. 2017.

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
- 8.3. 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/50381>

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 Environmental Information - Silver Spring, Maryland (NCEI-MD)

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

7.2.2. URL of data access service, if known:

<https://doi.org/10.7289/V5930RFV>

https://gis.ngdc.noaa.gov/arcgis/rest/services/nccos/BenthicMapping_USVIInsularShelf2017/MapServer

<https://maps.coastalscience.noaa.gov/biomapper/biomapper.html?id=insular>

<https://nccospublicstor.blob.core.windows.net/biomapper/usviinsularshelf2017/documentation/InsularShelf2017.pdf>

https://products.coastalscience.noaa.gov/biomapper_explorer/index.php?path=b1Awa3pNeU10Y0JHM

7.3. Data access methods or services offered:

Download from website

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):**

National Centers for Coastal Ocean Science - 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.