

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:

Depth soundings from a single beam echo sounder collected around the nearshore areas of Timor-Leste in 2012 and 2013

### 1.2. Summary description of the data:

This dataset contains singlebeam bathymetry data acquired during small-boat surveys conducted from October 20-26, 2012 and June 4-27, 2013 in Timor-Leste by the NOAA Coral Reef Ecosystem Program (CREP). Data was acquired with a HydroLite-TM Echosounder Kit by Seafloor Systems, a small boat Hydro Survey System using Ohmex SonarMite echosounder and Trimble ProXT receiver. The singlebeam bathymetry was used to ground-truth bathymetry derived from WorldView-2 satellite imagery by CREP for the near-shore areas (0-20 m depths) around Timor-Leste.

### 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:

2013-06-04 to 2013-06-27, 2012-10-20 to 2012-10-26

### 1.5. Actual or planned geographic coverage of the data:

W: 124, E: 127.4, N: -8.1, S: -9.4

Extent of surveys conducted by NOAA CREP in Timor-Leste in 2012 and 2013.

### 1.6. Type(s) of data:

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

Annette M DesRochers

**2.2. Title:**

Metadata Contact

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

annette.desrochers@noaa.gov

**2.5. Phone number:**

(808)725-5461

**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:**

Andrew Gray

**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:

Singlebeam bathymetry data collected using HydroLite-TM Echosounder Kit by Seafloor Systems, a small boat Hydro Survey System using Ohmex SonarMite echo sounder and Trimble ProXT receiver. Data was collected following procedures established by Seafloor Systems, and the HydroLite-TM system was tested and calibrated in advance of the surveys. Soundings were recorded in meters. Data collected in 2012 were processed using a different method from that used in 2013 as described in the process steps.

**Process Steps:**

- GPS track data (NMEA) and depths were downloaded and processed/parsed in ArcGIS using a customized track processing script written in Python. A time offset was applied to capture local time in Timor-Leste in addition to Greenwich Mean Time (GMT). The processed/parsed data were exported to an Esri geodatabase and erroneous data were cleaned in ArcGIS. The cleaned data were exported to CSV to be archived.
- During 2013 surveys, the system was calibrated for sound velocity. A log was kept during the surveys, including the offset from the instrument to the water surface (20 or 30 cm, depending on the vessel) and the sound velocity calibration status. The SonarMite data (.SOM) was downloaded from the instrument and imported into SonarVista, offsets and calibration were applied, obviously erroneous data based on the coordinates were removed, and the processed data were exported to CSV format. The exported data are considered 'lightly processed' and should be further inspected and cleaned before use.

**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):**

All components of the HydroLite-TM Echosounder Kit was tested and calibrated in advance of surveys. The singlebeam bathymetry data were lightly processed and cleaned post-mission (obviously erroneous points based on spatial coordinates were removed).

In 2013, instrument to water surface offsets were applied (20 or 30 cm), and a sound velocity calibration factor was applied (1590 m/s, instead of the default 1500 m/s).

**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)

**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/25307>

**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](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 National Centers for Environmental Information (NCEI)

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

**7.2.2. URL of data access service, if known:**

<https://maps.ngdc.noaa.gov/viewers/geophysics/>

**7.3. Data access methods or services offered:**

Data can be accessed online via the NOAA National Centers for Environmental Information (NCEI) Ocean Archive

**7.4. Approximate delay between data collection and dissemination:**

Unknown

**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):**

Pacific Islands Fisheries Science Center - Honolulu, HI

**8.3. Approximate delay between data collection and submission to an archive facility:**

Unknown

**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*

NOAA IRC and NOAA Fisheries ITS resources and assets.

**9. Additional Line Office or Staff Office Questions**

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