

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 the U.S. Pacific Islands since March 2012

### 1.2. Summary description of the data:

This dataset contains singlebeam bathymetry data collected from NOAA small boats by the NOAA Coral Reef Ecosystem Program since March 2, 2012 in the U.S. Pacific Islands Region, including the Hawaiian and Mariana Archipelagos, American Samoa, and the Pacific Remote Island Areas. Data was acquired with a transom-mounted AirMar P66 (prior to 2016) or an AirMar TM258 1 KW (2016 to present) single beam echosounder. The 2012-2015 data was processed using a custom NMEA python script, and the current data (since 2016) is processed using GPS Utility. Error analysis on the data from 2012-2017 was performed by comparing the singlebeam data to existing multibeam data where the two datasets overlapped.

### 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:

2016-10-04 to 2017-03-24, 2013-09-07 to 2013-09-14, 2016-09-13 to 2016-09-28, 2012-03-21 to 2012-04-26, 2015-02-15 to 2015-03-30, 2014-03-24 to 2014-05-18, 2017-04-30 to 2017-06-21, 2012-03-02 to 2012-05-19, 2014-03-17 to 2014-03-19, 2015-01-27 to 2015-04-16, 2017-04-02 to 2017-04-23

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

W: -157.972398, E: -157.922458, N: 21.379545, S: 21.247469

Singlebeam surveys conducted off the south shore of Oahu, Hawaii in the main Hawaiian Islands

W: -178.390582, E: -166.050673, N: 28.473888, S: 23.613395

Singlebeam surveys conducted in the Northwestern Hawaiian Islands: French Frigate Shoals, Kure, Lisianski, and Pearl and Hermes

W: -171.09456, E: -168.13686, N: -11.038255, S: -14.56138

Singlebeam surveys conducted in American Samoa: Tutuila, Ofu and Olosega, Ta'u, Rose, and Swains

W: 144.621388, E: 145.8541817, N: 20.55499, S: 13.224261

Singlebeam surveys conducted in the Mariana Archipelago: Guam, Rota, Aguijan, Tinian, Saipan, Sarigan, Pagan, Asuncion, Maug, Guguan, and Farallon de Pajaros

W: 166.590683, E: -159.970592, N: 19.327659, S: -0.387136667

Singlebeam surveys conducted in the Pacific Remote Island Areas: Johnston, Howland, Baker, Palmyra, Kingman, Jarvis, and Wake

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

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

Instrument: Single beam echosounder

Platform: NOAA PIFCS small boats, usually launched from NOAA ships

Physical Collection / Fishing Gear: Not applicable

**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:**

Rhonda Suka

**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 was acquired with a transom-mounted AirMar P66 (prior to 2016) or an AirMar TM258 1 KW (2016 to present) single beam echosounder. The 2012-2015 data was processed using a custom NMEA parsing script written by Jeff Anderson. The current data (since 2016) is converted from Furono GPS track points (PNT/TRK files) to comma-separated TXT using GPS Utility. The exported TXT files are parsed to separate the track header content from the data. Redundant data, if applicable, are removed (this occurs if the instrument is not cleared between data downloads). Values in the coordinates fields are edited to convert the alpha characters (N, S, E, W) to numeric representations (negative is applied for S and W). Data are then evaluated in GIS to set the descriptive locations (REGION and ISLAND). Once manual processing is complete, the data are migrated to the Oracle database. Data that are distributed are filtered to remove NULL depth and speed values and records in which TRACK = 1, and depth values are converted to negative.

**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):**

A standard operating procedure has been developed to standardize and improve data acquisition and data download in the field, and data conversation in the office using GPS Utility. The converted data are evaluated in a GIS and manually processed before

the data are migrated to the master database in Oracle.

## 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?

Yes

#### 6.1.1. If metadata are non-existent or non-compliant, please explain:

### 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/47152>

### 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:

National Centers For Environmental Information (Boulder) (NCEI-Boulder)

**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 Trackline Geophysical Data website.

To access the data, go to the NOAA National Centers for Environmental Information Trackline Geophysical Data website at <https://maps.ngdc.noaa.gov/viewers/geophysics/>. Under “Marine Surveys” in the table of contents on left side, uncheck “All Survey Types” and check “Single-Beam Bathymetry”. Click “Search Marine Surveys” button. Uncheck the “All” box for “Survey Ship”. Select “Hi’ialakai” in the list of Survey Ship options. Optionally you can also filter by date (year) by unchecking the “All Dates” box and entering your preferred “Min Year” and “Max Year” year. Data is currently available from 2012-2017 in the Pacific Islands Region. Relevant NOAA Ship Hi’ialakai survey IDs include HA1201, HA1305, HA1401, HA1501, HA1606, and HA1701.

**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.*