

*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:**

Multibeam Mapping of the South Atlantic Bight: South Carolina 2005, a Proposed MPA on the Continental Shelf

### **1.2. Summary description of the data:**

The NOAA Fisheries laboratory in Panama City, Florida coordinated an acoustic survey at the new proposed Marine Protected Areas in the South Atlantic Bight area June 20-July 7th, 2005. This metadata record is the parent record for the multi-beam echosounder (MBES) survey at the South Carolina A proposed MPA, which includes the following products: 1) XYZ ascii table created from the grid, 2) colored coded shaded geotiffs from the grid, 3) backscatter mosaic, 4) XYA (amplitude) ascii table created from the mosaic, and 5) geotif of backscatter draped on the bathymetric grid. All products are available contacting the distributor. Some data sets are also posted on NOAA's Coral Reef Information System (CoRIS) at [www.coris.noaa.gov](http://www.coris.noaa.gov). Another product that will not be distributed, but will be used as input to habitat classification software (QTC MultiView (website)), are raw data files logged to disk using the Simrad EM3002 MBES data acquisition software. These raw files contain packets of information (depth soundings, navigation, attitude, sound velocity profiles, UTC time) that the acquisition software logged sequentially in time. The raw data format is available from Kongsberg-Simrad (website). The MBES system was provided by Seafloor Systems Inc. and the support vessel was UNCW's 70-ft. R/V Cape Fear. This survey is part of an on-going partnership effort funded by the NOAA Coral Reef Conservation Program (CRCP). This survey was funded by a CRCP grant to Andrew David, NOAA Fisheries - Panama City, and Andrew Shepard, NURC/UNCW (The National Oceanographic and Atmospheric Administration's Undersea Research Center at the University of North Carolina at Wilmington). In addition to partners above, other partners include UNCW's Spatial Analysis Lab, US Geological Survey, and the S. Atlantic fishery Management Council.

### **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:**

2005-06-28 to 2005-07-07

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

W: -78, E: -77, N: 34, S: 32  
South Atlantic Bight: South Carolina

**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:**

Andrew David

**2.2. Title:**

Metadata Contact

**2.3. Affiliation or facility:**

**2.4. E-mail address:**

andy.david@noaa.gov

**2.5. Phone number:**

850-234-6541 x208

**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 David

**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?**

No

**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):*

Process Steps:

- 2005-07-07 00:00:00 - The bathymetry and backscatter data were collected along a continuous swath perpendicular to the direction of the ship using a Simrad EM 3002 multibeam sonar system. The data were collected in the raw format .all Simrad file. The data are cleaned of bad navigation and depth readings in CARIS HIPS 5.4 swath editor. The depth readings are gridded into a common grid. The gridded data are converted to an XYZ ASCII format file (Longitude, Latitude, Attribute). The raw backscatter was saved during the survey. The multi-beam system was mated to a Differential GPS unit, APPLANIX POS/MV (quantified heave, pitch, roll, and yaw heading). HYPACK navigation system was used to maintain vessel course throughout the survey. Sensor data were compiled in SIS Shipboard Data Acquisition and Image Processing System and initially logged to .all Simrad data files. Files were post-processed using CARIS HIPS 5.4 software to remove outliers, correct for sound velocity and tidal stage. HIPS was also used to mosaic backscatter and produce XYA files.

**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):**

None listed.

**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)
- 7.2. Name of organization of facility providing data access

**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/24279>

**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?**

No

**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?**

No

**7.1.2. If there are limitations to public data access, describe how data are protected from unauthorized access or disclosure:**

There are no constraints for use of geotiff files, which are available online and from the P.O.C.

**7.2. Name of organization of facility providing data access:**

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

Data hosting service is needed

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

<https://data.nodc.noaa.gov/coris/data/NOAA/nmfs/sefsc/bathymetry/SAB/southcarolina/bathymetry2>

<https://data.nodc.noaa.gov/coris/data/NOAA/nmfs/sefsc/bathymetry/SAB/southcarolina/bathymetry2>

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

Follow this URL:

<http://data.nodc.noaa.gov/coris/data/NOAA/nmfs/sefsc/bathymetry/SAB/southcarolina/bathymetry2005>

**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)*

TO\_BE\_DETERMINED

**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):**

Panama City Laboratory - Panama City, FL

**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*

Data is located on a personal computer.

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

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