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:
Students Collaborating to Undertake Tracking Efforts for Sturgeon(SCUTES)

1.2. Summary description of the data:
Students Collaborating to Undertake Tracking Efforts for Sturgeon (SCUTES) is a collaboration between NOAA Fisheries, sturgeon researchers, and teachers/educators in an effort to learn more about Atlantic and shortnose sturgeon and promote sturgeon conservation. In order to learn more about the movement of sturgeon, we collaborate with researchers by providing them with some of the acoustic tags that are either inserted or attached to the sturgeon.

1.3. Is this a one-time data collection, or an ongoing series of measurements?
Ongoing series of measurements

1.4. Actual or planned temporal coverage of the data:
2003 to Present

1.5. Actual or planned geographic coverage of the data:
The data included in the SCUTES database is based on where SCUTES sturgeon researchers have conducted tagging and tracking studies (i.e., the location of acoustic arrays), as well as which tracking data researchers voluntarily submit in addition to those associated with the acoustic tags that NOAA Fisheries provided. All geographical data included in the SCUTES database has been collected from within the geographical area occupied by shortnose and Atlantic sturgeon. The “geographical area occupied by a species” is defined as: “the geographical area which may general be delineated around the species’ occurrences, as determined by the Secretary (i.e., range). Such areas may include those areas used throughout all or part of the species’ life cycle, even if not used on a regular basis (e.g., migratory corridors, seasonal habitats, habitats used periodically, but not solely by vagrant individuals)” (81 FR 7413). For both Atlantic and shortnose sturgeon, geographic data reflects only aquatic habitat.

Based on our review of the literature and other available data, we concluded that Atlantic sturgeon: Typically occur in marine waters within the 50 m depth contour, but also occur in deeper marine waters; occur in many coastal sounds and bays from the

Maine/Canada border to Cape Canaveral, Florida; and occur in tidally-affected rivers along the coast. Similarly, shortnose sturgeon: Typically occur in the slower moving riverine waters or nearshore marine waters along the coast from the St. John River in Canada to the St. Johns River in Florida. As previously stated, the location of acoustic arrays is at the discretion of SCUTES sturgeon researcher. The data currently included in the SCUTES database spans from Maine to Virginia, however future data can be generated in any of the geographic areas described above.

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:
Edith E Carson

2.2. Title:
Metadata Contact

2.3. Affiliation or facility:

2.4. E-mail address:
edith.carson@noaa.gov

2.5. Phone number:
978-282-8490

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:
Edith E Carson

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:

he SCUTES Coordinator will collect the latest tracking data annually from the sturgeon researchers that are partnered with the SCUTES program. The SCUTES Coordinator will then process and upload the new data into the Oracle database. The Oracle database is only accessible to NOAA Fisheries staff, so the SCUTES Coordinator will be responsible for downloading the data when an educator expresses interest in “adopting” a sturgeon. This process involves selecting a tagged fish from a river of the teacher/educator’s choosing, applying filters to remove irrelevant content (e.g., researcher’s name, station name, soak time) from the data, and downloading the data in a readable format (e.g., Excel, PDF) according to the teacher/educator’s request. The tracking data is then sent to the teacher/educator reminding them that this data is for educational purposes only.

Process Steps:

- N/A (Citation: N/A)

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):

The SCUTES Coordinator will collect the latest tracking data annually from the sturgeon researchers that are partnered with the SCUTES program. The SCUTES Coordinator will then process and upload the new data into the Oracle database. The Oracle database is only accessible to NOAA Fisheries staff, so the SCUTES Coordinator will be responsible for downloading the data when an educator expresses interest in “adopting” a sturgeon. This process involves selecting a tagged fish from a river of the teacher/educator’s choosing, applying filters to remove irrelevant content (e.g., researcher’s name, station

name, soak time) from the data, and downloading the data in a readable format (e.g., Excel, PDF) according to the teacher/educator's request. The tracking data is then sent to the teacher/educator reminding them that this data is for educational purposes only.

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/46626

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?

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:

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

7.2.2. URL of data access service, if known:

7.3. Data access methods or services offered:
Informal Data Sharing Agreement: Once a year, the researchers will share the tracking data from the

acoustic tags that NOAA Fisheries provided. At their discretion, they may share with us the tracking data

from other tags in addition to the NOAA fisheries tags. NOAA Fisheries has an informal agreement with

the SCUTES sturgeon researchers that the tracking information is used by the SCUTES program for the

sole purpose of providing teachers/educators with data sets for the “Adopt a Sturgeon” program and

that the distribution of the data will not threaten researchers’ proprietary interests (e.g., research

publication).

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)
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):
Greater Atlantic Regional Fisheries Office - Gloucester, MA

8.3. Approximate delay between data collection and submission to an archive facility:
N/A

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

Processed data is uploaded into the Oracle database. Data is also protected from accidental or malicious modification or deletion by maintaining a data backup (i.e., Excel spreadsheet) of the raw tracking data that has been submitted by SCUTES sturgeon researchers on an internal network (i.e., GARFO H:drive). Additionally, individual sturgeon researchers store and maintain all data associated with their work at their respective institutions/organizations.

9. Additional Line Office or Staff Office Questions
Line and Staff Offices may extend this template by inserting additional questions in this section.