

NODC Submission Information Form

(V1.3, Revised 01/2009)

FORM APPROVAL PENDING

Following the definitions and principles of the *Open Archival Information System (OAIS) Reference Model (ISO 14721:2003)*, this form documents the mutual understanding between a *Producer*, defined as a person or organization who provides information to be preserved, and an *Archive*, defined as the organization that intends to preserve information for access and use over the long term. It should accompany all data submissions to the National Oceanographic Data Center (NODC) and be completed to the extent possible.

The information contained on this form may be used to:

1. Populate NODC's Accession Tracking Data Base and product-specific databases
2. Create metadata records conforming to the Content Standard for Digital Geospatial Metadata (CSDGM), Vers. 2 (FGDC-STD-001-1998) and/or ISO 19115
3. Generate a formal archive appraisal package, for submissions requiring management level approval
4. Develop a list of *Producer* requirements requested of the *Archive*

The information contained on this form is true and correct to the best understanding of the *Producer* and *Archive* at the time of its submission. In the future, this information may be amended, updated, or revised as necessary and some submissions may require management level approvals before archival services can be provided.

Instructions:

This form is divided into six sections. Section 1 provides only the most basic Tracking Information and is the only section absolutely required at the time of submission. **However, within 1 month all submissions must also include information for Section 2**, which provides basic Data Discovery and Usage Information, and all submissions should strive to provide information through Sections 3 and 4, which provide more comprehensive and detailed information on the data set and its requirements for long term stewardship. Section 5 is required for submissions to the *Archive* that are expected to be periodic or routine in nature, and supports automation of archival services. Section 6 is optional and is only required for submissions that are expected to need management level approval and a formal archive appraisal package. The *Archive* Point of Contact will provide guidance as needed on all of these questions and will work with the *Producer* to ensure both parties reach a mutual understanding.

When complete, please email the signed form (see the last page of the document) to the *Archive* Point of Contact with a copy to NODC.DataOfficer@noaa.gov. Closing the email with "Signed," followed by your name is an acceptable form of signature.

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Section 1 – Basic Tracking Information

All elements in this section are REQUIRED, and will enable the *Archive* to establish a unique and durable tracking number known as an NODC Accession Number for the submission. It also clearly establishes whether the *Archive* is able to freely redistribute the data, and if not, what the restrictions are. When appropriate, the *Producer* will be provided the Accession Number in a confirmation receipt, along with the web address where the *Producer* can access the data set. When Section 1 is complete, the submission is considered “Initialized”.

1. Date of submission of this form (or its update): **2/16/2011**
2. Describe the scope of this data submission information.

In the summer of 2010 we conducted a series of offshore surface plankton tows in the Gulf of Mexico. We have submitted the start/end times, lat/long coordinates, sea surface temperature, salinity, and dissolved oxygen data, and notes for each of our tows. Plankton tows were sampled by towing a 255µm mesh bongo net through near-surface waters for ~300 meters traveling at 1.5-2nmi speed. Plankton samples are currently being stored at the Taylor lab in the Department of Ecology and Evolutionary Biology at Tulane University (New Orleans, LA). We used a YSI model 85 (Temperature/Conductivity/DO) meter to take the environmental measurements.

3. What is the Data Set title? A useful title includes a listing of two or three of the observed variables, the name of one or two of the platforms used to collect data or the project responsible for the data collection activity, the location, and the range of observation dates. For example, “Temperature, salinity, and nutrient data from bottle casts from the *Akademic Korolev*, *Alpha Helix*, *Polar Star*, and *Surveyor* in the Bering and East Siberian Seas from 1987-1999.”

“Surface temperature, salinity and dissolved oxygen data from the northern Gulf of Mexico 2010”

4. Primary Point of Contact for *Producer* – please provide name, organization, position, address, telephone, fax, and e-mail address.

**Erin Grey, Postdoctoral Researcher
Department of Ecology and Evolutionary Biology
Tulane University
400 Lindy Boggs Building
New Orleans, LA 70118
Tel: (773) 401-9849
Fax: 504) 862-8706
Email: egrey@tulane.edu**

5. Primary Point of Contact for *Archive* – please provide name, organization, position, address, telephone, fax, and e-mail address.

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6. Can NODC freely and openly redistribute this dataset? If no, list the *Producer's* constraints of the Data Set in the *Archive* for Users in terms of:

Yes, the NODC can freely open and redistribute this dataset.

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Section 2 – Basic Data Discovery and Usage Information

All elements in this section are REQUIRED if applicable and allow the *Archive* to enable users to find, access, and use the data described by this submission. It is strongly recommended that this information be provided at the time of the submission though it is acceptable if some elements are provided within **one month** of Initialization. When Section 2 is complete, the submission is considered “Active”.

1. What is the purpose for collecting this Data Set?

We conducted offshore plankton tows in the Gulf of Mexico during the summer of 2010 to test for Deepwater Horizon oil spill effects on zooplankton, particularly blue crab, *Callinectes sapidus* (Rathbun), larvae.

2. Provide a general descriptive abstract about the Data Set.

This dataset contains the date, time and location of surface plankton tow conducted between June-October, 2010, as well as the surface temperature (°C), surface salinity (ppt), and dissolved oxygen (% standard) measurements taken at the start of each tow.

3. What is the time period covered by the Data Set?

June – October, 2010

4. What is the geospatial coverage of the Data Set (Easternmost longitude, westernmost longitude, northernmost latitude, southernmost latitude)? Note western longitudes and southern latitudes are negative, and use decimal degrees if possible.

**Min Latitude (dec degree): 27.193
Max Latitude (dec degrees): 29.952**

**Min Longitude (dec degree): -93.666
Max Longitude (dec degrees): -88.693**

5. List the measured variables or parameters in the Data Set (e.g., Temperature, Salinity, etc.)

Transect ID: Chandeluer, Fourchon, or Rockefeller

Date: m/dd/yyyy

Vessel: name of the vessel

TowNumber: numeric

TimeStart: central standard time

TimeEnd: central standard time

Temperature: temperature in degrees Celsius

Salinity: in parts per thousand

DO: dissolved oxygen in % of standard (distilled water)

LatitudeStart: latitude at the start of the tow, decimal degrees

LongitudeStart: longitude at the start of the tow, decimal degrees

LatitudeEnd: latitude at the end of the tow, decimal degrees

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LongitudeEnd: longitude at the end of the tow, decimal degrees

Initials/Notes: initials of recordkeeper, notes on the tow

6. List the platform(s) from which the Data Set is derived.

None, direct measurements

7. List the instrument(s) used to derive the Data Set.

YSI 85 Handheld DO/Conductivity/Temperature meter

8. List the observation types in the Data Set (e.g., Biological Data, Physical Data, etc.).

Physical data

9. List the mission/project name(s) to which the Data Set contributes.

NSF Project Award OCE-1042792 - RAPID: Deepwater Horizon Oil Spill Impacts on Blue Crab Populations. (PI Caroline Taylor, Tulane University)

10. Give the expected size(s) in bytes and number of files in the submission.

16.9 KB

11. Give the file format and format version (e.g., netCDF-3, HDF-5, ASCII CSV, etc.).

CSV

12. Does this Data Set conform to any file-level data content or metadata content standards? (e.g., COARDS/CF, HDF-EOS, WOCE, GHRSSST)

Unsure

13. Please describe the file contents. Include enough information to make these data understandable to future users. For example, a table containing as applicable: parameter definition, data type, byte size/length, scale factor, offset, precision, and units. This information is especially important for ASCII and other formats which are not self-describing like netCDF and HDF. If this information is already contained in a file or file headers included in this submission, please indicate the file name.

This is a spreadsheet (.csv) with the TransectID, Date, Vessel, Tow Number, Start Time (Central Standard Time), End Time (Central Standard Time), Temperature (°C), Salinity(parts per thousand), DO (dissolved oxygen, in % of standard, which was distilled fresh water), start and end latitudes (decimal degrees), start and end longitudes (decimal degess), and initials/notes for each tow. Temperature, salinity, and DO were measured with a YSI 85 handheld DO/Conductivity/Temperature meter, which was placed ~20cm under the surface of the water at the beginning of each tow. Some data is missing- please see notes.

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- ~~14. Give the file-naming convention for the file(s) to be submitted, with the range/domain of each field value in the filename.~~

NA

15. Please provide a list of existing reports, publications, user guides, web sites, or other supporting documentation relevant to the Data Set.

None

16. What metadata exists for this Data Set? Is it in a standard format/can it be automatically translated into a standard format? Describe the granularity of this metadata (For example, is it collection level metadata? If not, to what file or grouping of files does it apply?)

None

17. If applicable, describe the temporal resolution of the primary parameter(s) in the Data Set.

June – October, 2010

18. If applicable, describe the horizontal resolution of the primary parameter(s) in the Data Set.

Points samples taken throughout this area:

Min Latitude (dec degree): 27.193

Max Latitude (dec degrees): 29.952

Min Longitude (dec degree): -93.666

Max Longitude (dec degrees): -88.693

19. If applicable, describe the vertical resolution of the primary parameter(s) in the Data Set.

Near-surface (10-25 cm depth)

20. If applicable, describe the projection grid or coordinate system used in the Data Set.

NA

21. If the Technical Contact for the *Producer* is different from the Primary Contact for the *Producer* (1.4), please provide name, organization, position, address, phone, fax, and email.

22. If the Metadata Contact for the *Producer* is different from the Primary Contact for the *Producer* (1.4), please provide name, organization, position, address, phone, fax, and email.

23. If the Technical Contact for the *Archive* is different from the Primary Contact for the *Archive* (1.5), please provide name, organization, position, address, phone, fax, and email.

24. If the Metadata Contact for the *Archive* is different from the Primary Contact for the *Archive* (1.5), please provide name, organization, position, address, phone, fax, and email.

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Section 3 – Detailed Data Processing and Quality Information

All elements in this section are STRONGLY RECOMMENDED and allow the *Archive* to enable more complete and thorough understanding of the data over the long term.

1. What is the overall completeness and quality of the Data Set?

The quality of the DO measurements is poor, as the YSI meter readings rarely stabilized. The quality of the rest of the data is excellent. However, most of the data was lost for one of the transects (TransectID = “Fourchon”, date = 8/25/2010).

2. Describe the data processing level of the Data Set. For example, is the Data Set unprocessed or minimally processed, quality controlled or calibrated, etc.? For satellite data, is it Level 0, 1, 2, 3, or 4?

There was no data processing. I simply converted the lat/longs from degree minutes to decimal degrees.

3. Summarize the science algorithms(s) used to derive the Data Set.

There are no algorithms, just direct measurements from the YSI.

4. Describe the steps taken to process the Data Set, including for each step the methodology, source data, and time/frequency, and listing any input data sets used to derive the Data Set.

Data was recorded on waterproof paper at the beginning of each tows, and then entered into an Excel spreadsheet immediately after the tow.

5. Describe the Data Set’s dependency on other data (e.g. ancillary files), processing systems, software, or entities that are not to be submitted to the Archive.

None

6. Detail any measures taken by the Producer to assess the quality of the Data Set, including data comparisons, and an assessment of the attribute accuracy. Give information about omissions, selection criteria, and other rules used to derive the Data Set.

NA

7. List any quality assessment parameters included in the Data Set. For example, this may be an explanation of quality flags and their range/domain of values.

None.

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Section 4 – Data Stewardship Information

All elements in this section are **STRONGLY RECOMMENDED** and enable the *Archive* to provide more comprehensive *data stewardship* over the long term. Data stewardship requires a more extensive set of functions than traditional long-term preservation of data and information, and includes activities such as monitoring the needs of user communities, compliance testing, quality assurance, and use of this Data Set in larger integrated product databases. Importantly, this section provides the *Producer* with an opportunity to request specific services from the *Archive*. This document does not imply that all of these services will be provided, but typically the *Archive* will work to meet them on a best-effort basis.

1. Please describe any quality control or quality assurance procedures the *Archive* should perform on this Data Set when it is submitted to the *Archive*. **None**
 2. How will the *Producer* provide updates to the *Archive* when changes occur in the Data Set, transmission mechanism, format, content, etc.? How often might such changes be expected to occur? **I will email if I find an error.**
 3. Does the *Producer* request reports on the *Archive*'s dissemination of the Data Set? If so, what statistics should be included? (Please note federal regulations strictly limit the amount and kind of information that can be recorded by federal agencies.) **No reports requested.**
 4. Does the *Producer* request standards compliance testing on the Data Set? For example, should the *Archive* verify data files are meeting netCDF Climate and Forecast (CF) conventions, or should metadata records be checked for adherence to the FGDC content standard? Will the *Producer* perform standards compliance testing prior to submission to the *Archive*? **No request.**
 5. Suggest action(s) for the *Archive* in the case of an error in transmission (e.g. missing data, duplicate data, incorrect file name or size, failure of compliance checks). **None, but feel free to contact if you have any issues with the dataset.**
 6. Please list any known NODC product databases (e.g. World Ocean Data Base) that this Data Set should become a part of. **None known.**
 7. Please identify one or more Representative Users of the *Designated Community*. The Designated Community is defined in the OAIS Reference Model as the group of potential users who should be able to understand a Data Set over the long term. The *Archive* works specifically to preserve the data and information for this Designated Community.
 - a. Describe this user community and their requirements
 - b. Provide Contact Information for a representative of this community - please provide name, organization, position, address, telephone, fax, and e-mail address
- I think that in general, people will be interested in any research cruises that occurred during the Deepwater Horizon oil spill. I would just like to have this data out there so that people can see what we did.**
8. List security requirements for dissemination of the Data Set from the *Archive* to the users. **None**
 9. Once the Data Set is transferred to the *Archive*, how long should it take for it to become searchable? How long should it take to become accessible online? **As soon as possible for both.**

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~~10. Describe any preferred search criteria to be enabled for this Data Set in the *Archive* (e.g., search by time, search by geographic bounding box on a Polar Stereographic map, etc.)~~

Unsure

11. Describe any the preferred access mechanisms to be enabled for this Data Set in the *Archive* (e.g., OPeNDAP, Web Coverage Services, FTP, etc.) **No preference.**

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Section 5 – Logistics Information for Routine Transfers to the *Archive*

All elements in this section are REQUIRED for Data Sets that are expected to be routine, automated transmissions to the *Archive* from the *Producer*. This information is required for the *Archive* to establish and maintain the automated ingest and archive procedures. Questions 1 through 5 in Section 4 above are also required for automatic submissions.

1. Provide the mechanisms used to transfer digital data to the *Archive*. For routine, repeated submissions include the server, location, and protocol used.
2. List any relevant Interface Control Document, Memorandum of Understanding, or other technical documents outlining how data will be transferred from *Producer* to *Archive*.
3. Describe the submission schedule in terms of starting/ending times and submission frequency for each submission session.
4. Give the volume of each submission session and the total anticipated volume per day or month in bytes.
5. List the steps in the transfer process from *Producer* to *Archive*.
6. List the *Producer's* preference for basic file validation routines (e.g. checksums, CRC32, MD5 or other).
7. Does the *Producer* request a periodic record of receipt from the *Archive* for purposes of tracking the submitted data?
8. List any security requirements needed during submission from the *Producer* to the *Archive*.
9. Is the content of each submission session considered by the *Producer* to be a continuation or new version of a previous submission, or is the content of each submission session considered by the *Producer* to be an independent or stand-alone collection of data?

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Section 6 – Archive Appraisal and Justification Information

Only in cases where a formal archive appraisal package is required by the *Archive* in order to gain management approval to provide archival services for this Data Set are these elements required. For these cases, also ensure the following questions have been answered: all of Section 2, and Section 3 questions 1 and 2. The Point of Contact for the *Archive* will provide additional guidance with this section.

1. What are the cost considerations for long-term maintenance of the Data Set? Are resources available for archiving and providing access to these records?
2. Has this Data Set ever physically resided at a scientific data center or center of data where stewardship was provided? Where does it reside now? What scientific expertise would best provide stewardship for this Data Set?
3. Where does this Data Set fit within NOAA's mission?
4. What is the value (scientific, public, government) of this Data Set in terms of current and anticipated future benefits?
5. Does the Data Set have legal mandates which require its archive at NOAA? Are there existing NARA disposition schedules that pertain to these records? If yes, please describe.
6. Is the Data Set unique? If not, where else does it exist?
7. Is the Data Set related to other records in a NOAA *Archive* (i.e. an extension, a new version, improved quality, etc.)? If yes, to what degree does this Data Set add value to other data sets held by NOAA or others?
8. Has the Data Set undergone user evaluation and/or scientific peer review, been used extensively in publications, and/or subjected to other appraisal processes? If yes, please describe.
9. What is the current storage media for the Data Set? If in electronic format, does it still exist on other media (e.g. paper, film)? If yes, is it required to maintain copies on other media?
10. Does appropriate hardware and software technology exist to enable usability of the Data Set? If yes, please describe.
11. Does the Data Set have intrinsic value? Intrinsic value implies that an object containing data has value beyond the data content in the object. For example, the original deck logs from the HMS *Beagle* have intrinsic value, but the digitized observations from those logs do not because the digitized files are easily copied viewed, and/or redistributed.

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The signatures below indicate the belief that the information contained on this form is true and correct to the best understanding of the *Producer* and *Archive*. These signatures also acknowledge that in the future, this information may be amended, updated, or revised as necessary and that some submissions may require management level approvals before archival services can be provided.

Point of Contact for the *Producer*

Printed Name and Date: **Erin Grey, 2/16/10**

Point of Contact for the *Archive*

Printed Name and Date: **Erin Grey, 2/16/10**