

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):
December 24, 2011

2. Describe the scope of this data submission information.

Information is provided that describes methods and reports biological and physical data from beach sampling along the SE Gulf of Mexico and SE coast of Florida from May 2010- July 2011

3. What is the Data Set title?

Macroinfauna and sediments from swash zones of sandy beaches along the SE Gulf of Mexico and SE Florida coast, 2010-2011.

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

Dr. Susan S. Bell
Dept. of Integrative Biology
University of South Florida
Tampa, FL 33629-5200
(813) 974-2542
(813) 974 3263
sbell@usf.edu

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

Dr. Susan S. Bell
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6. Can NODC freely and openly redistribute this dataset?

Yes.

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?

These data were collected as part of an investigation on the ecology of beach ecosystems and possible impacts from the Deepwater Horizon Oil Spill.

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

Sampling for macroinfauna from swash zones of beaches along the SE Gulf of Mexico and SE coast of Florida was conducted from May 2010- July 2011. At each site, sampling was conducted using sediment cores (10cm diameter, 20cm deep) and all sampling was conducted within 2 hrs of low tide. Cores were collected within an approximately 100m linear distance parallel to the shoreline at each site. Some sites were intensively sampled across 3 subareas of the swash zone: high (near maximum wave run-up), mid, and low (near maximum wave back-wash) swash. Core contents were washed through a 1mm mesh and contents retained on the sieve were returned to the laboratory and frozen at 4°C. In the laboratory, samples were sorted and all macroinfauna removed. The dominant macroinfauna *Donax variabilis* (coquina) and *Emerita talpoida* (mole crab), making up over 99% of all organisms, were enumerated. Mean number (SD) per core and subarea within the swash zone are reported.

Additionally, three 60 ml cores were collected for sediment analyses from within the swash zones of all beaches, on or near each sampling date. Sediment samples were returned to the laboratory, dried for 24 h at 60° C, and median grain size determined .

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

May 2010 through July 2011

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.

-W87°34'54.2" western most; -W80°17'23.4" eastern most; N30°19'40.8" northern most; N26°31'42.9"southern most

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

Faunal abundance (mean, standard deviation), median grain size

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

None

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

Handheld corers

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

Biological Data, Physical Data

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

**Swash zone macroinfauna: assessing the impacts of the Deep water Horizon Oil spill
(A project funded by NSF: Biological Oceanography Program)**

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

30.3 KB, one file

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

Data format:

1. Media type: emailed excel file
2. Name of file that presents record layout: **Swash zone macroinfauna record layout.docx**

12. Does this Data Set conform to any file-level data content or metadata content standards?

(e.g., COARDS/CF, HDF-EOS, WOCE, GHRSSST) no

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.

See attached file: **Swash zone macroinfauna record layout.docx**

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

Two files are submitted: one contains data and the other contains text describing the contents of the data file and the organization of the data.

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15. Please provide a list of existing reports, publications, user guides, web sites, or other supporting documentation relevant to the Data Set.
None at this time.
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 at this time.
17. If applicable, describe the temporal resolution of the primary parameter(s) in the Data Set.
Not applicable.
18. If applicable, describe the horizontal resolution of the primary parameter(s) in the Data Set.
Not applicable.
19. If applicable, describe the vertical resolution of the primary parameter(s) in the Data Set.
Not applicable.
20. If applicable, describe the projection grid or coordinate system used in the Data Set.
Not applicable.
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.
Not different.
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.
Not different.
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.
Not different.
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.
Not different.

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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 data from beaches across a broad geographic area have been collected using standard procedures. The data should be highly representative of macroinfauna retained on a 1 mm sieve and sediment grain size across the swash zone of the beaches in this region.
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?
The data set is unprocessed and has been checked for consistency.
3. Summarize the science algorithms(s) used to derive the Data Set.
No algorithms have been used to derive data.
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.
None.
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.
Not applicable.
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.
Missing data are a result of samples being unavailable for processing or a missing collection.
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*.
Suggest possible modification of file format.
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?
This dataset was produced from funded research. If additional funds are awarded it is likely that similar or enhanced data sets will be submitted in 2-3 year intervals.
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.)
Yes. Number of requesters and identity of the organization (if any) requesting the data.
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.
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).
Notify producer about problems and producer will work to correct them.
6. Please list any known NODC product databases (e.g. World Ocean Data Base) that this Data Set should become a part of.
Benthic fauna.
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

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~~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
Scientific researchers who study benthic communities; governmental agencies involved in coastal issues.
- b. Provide Contact Information for a representative of this community - please provide name, organization, position, address, telephone, fax, and e-mail address

8. List security requirements for dissemination of the Data Set from the *Archive* to the users.
None at this time.

Once the Data Set is transferred to the *Archive*, how long should it take for it to become searchable? Within a year. How long should it take to become accessible online? Within a year.

9. 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.)
Search by geographic boundary. Search for habitat type (Beach).
10. Describe any the preferred access mechanisms to be enabled for this Data Set in the *Archive* (e.g., OPeNDAP, Web Coverage Services, FTP, etc.)
Any of the most commonly used ones.

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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.
Excel files attached to email.
2. List any relevant Interface Control Document, Memorandum of Understanding, or other technical documents outlining how data will be transferred from *Producer* to *Archive*.
Not applicable.
3. Describe the submission schedule in terms of starting/ending times and submission frequency for each submission session.

File may be updated as new data become available. Expect that some data will be added in Spring 2011.

4. Give the volume of each submission session and the total anticipated volume per day or month in bytes.
100KB per year.
5. List the steps in the transfer process from *Producer* to *Archive*.
Email via server at University of South Florida 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?

Yes.
8. List any security requirements needed during submission from the *Producer* to the *Archive*.

none
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?
This is the first submission of these kind of data. Unable to determine at this time if any additional data will always be a continuation or if some will be stand alone.

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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:

Susan S. Bell 12-24-2011

Point of Contact for the *Archive*

Printed Name and Date:

Susan S. Bell 12-24-2011