#### OAP Science Data Information System (SDIS) Forms and Instructions

#### OMB 0648-0024

#### **Overview**

The NOAA Ocean Acidification Program (OAP) Science Data Information System (SDIS) provides a web-based tool to upload scientific data for archival at NCEI. It includes tools to enter and edit metadata, add supplemental documents, and the option to check the data for common data errors.

#### Request Account

In order to use the SDIS, users must have a login account. To request an account, there is a simple form with a minimum amount of required information, including name, email address, and the user's organization.

|                   | nter the following information<br>n OAP Dashboard user account: |
|-------------------|-----------------------------------------------------------------|
| First Name: *     |                                                                 |
| Middle:           |                                                                 |
| Last Name: *      |                                                                 |
| Email: *          |                                                                 |
| Confirm Email: *  |                                                                 |
| Telephone:        | Ext:                                                            |
| Organization: *   |                                                                 |
| * Required Field. | Cancel Submit                                                   |
|                   |                                                                 |

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995 unless the information collection has a currently valid OMB Control Number. The approved OMB Control Number for this information collection is 0648-0024. Without this approval, we could not conduct this information collection. Public reporting for this information collection is estimated to be approximately 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. All responses to this information collection are voluntary. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the OAR, Eugene.Burger@noaa.gov. Geospatial metadata is requested in accordance with Executive Order 12906 and NOAA Administrative Order 212-5.

#### **Privacy Act Statement**

Authority: The collection of this information is authorized under 5 U.S.C. § 301, Departmental regulations which authorizes the operations of an executive agency, including the creation, custodianship, maintenance and distribution of records, and 15 U.S.C. 1512, Powers and duties of Department.

Purpose: NOAA collects limited information, such as name, address, phone number, or email address for a variety of purposes. This information will be used to respond to user inquiries or provide services requested by the user.

**Routine Uses:** Disclosure of this information is permitted under the Privacy Act of 1974 (5 U.S.C. Section 552a) to be shared among Department staff for work-related purposes. Disclosure of this information is also subject to all of the published routine uses as identified in the Privacy Act System of Records Notice COMMERCE/NOAA-11, Contact Information for Members of the Public Requesting or Providing Information Related to NOAA's Mission.

**Disclosure:** Furnishing this information is voluntary. By providing this information, you are consenting to the use of that information only for the purpose for which it is submitted.

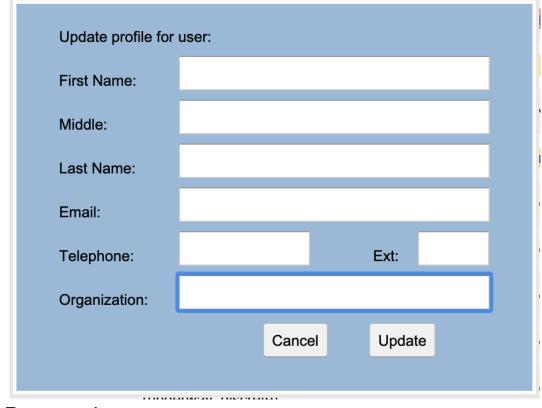
#### <u>Login</u>

The login dialog with username and password also provides a link to reset a lost or forgotten password or username.

| Please enter your OAP Da | ashboard Login Credentials |
|--------------------------|----------------------------|
| Username:                |                            |
| Password:                |                            |
|                          | Submit                     |
| Request an account.      | Need login help?           |

#### Edit Profile

Users can review and update their profile information through the Edit Profile dialog.



## Change Password

Users can change their password using the Change Password dialog. Passwords must conform to NOAA's password complexity requirements.

| Changing password for user:                                                                                                                                                                                     |        |                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------|
| Current Password:                                                                                                                                                                                               |        |                 |
| New Password:                                                                                                                                                                                                   |        |                 |
| Confirm Password:                                                                                                                                                                                               |        |                 |
| Passord must be at least 12 characters long,<br>and it must contain at least one each of<br>• lower-case characters<br>• upper-case characters<br>• numbers<br>• symbols '!', '\$', '%', '#', '&', '_, '*', '^' | Cancel | Change Password |

#### Main Page: Dataset Listing

The application main page shows all the datasets that have been uploaded by the user. It will be empty the first time a user logs in to the application. The listing shows various information about the datasets, including the uploaded file name, and the current status of the various steps of the process. It also provides a toolbar on the left for the operations provided by the tool which include creating a new submission record, uploading a data file, entering dataset metadata, and submitting to the archive, as well as the optional steps of identifying the dataset variables, checking the data for common errors, adding supplemental documents, and previewing the data.

| ROAR                     |    |           | O/                                   | AP Science Data I                            | nformation Sys                    | stem        |                           | Logged in as              |
|--------------------------|----|-----------|--------------------------------------|----------------------------------------------|-----------------------------------|-------------|---------------------------|---------------------------|
| $\bigcirc$               | Му | Datasets  |                                      |                                              |                                   |             | Send Feedback             | Preferences Logo          |
| New<br>Submission        |    | Record ID | Data File Name                       | Observation Type                             | Upload Date                       | Data Status | Metadata                  | Supplemental<br>Documents |
| Identify                 |    | BE9A8FMNP | CB2015_09_trajectory.csv             | Surface measurements<br>(underway, discrete) | 2021-04-12 09:52                  | No warnings | Metadata is<br>incomplete | Add documents             |
| Columns                  |    | BE56PH2WG | CHABA092013.tsv                      | Profile<br>(CTD, bottle, etc.)               | 2021-02-24 11:15                  | 6 warnings  | Validated                 | SF_2020-09-09.jpg         |
| Manage<br>Data File      |    | BE56MSAU9 | atlantic_profiles.csv                | Profile<br>(CTD, bottle, etc.)               | 2021-02-24 10:40                  | 2 errors    | Validated                 | Add documents             |
| Manage<br>Metadata       |    | BE56MJRCY | Data_combined.csv                    | Profile<br>(CTD, bottle, etc.)               | 2021-02-24 10:36                  | 4 errors    | Validated                 | Add documents             |
|                          |    | BE3X0P24S | CB2015_09.csv                        | Surface underway                             | 2021-01-21 15:17                  | No warnings | Initial Metadata          | Add documents             |
| upplemental<br>Documents |    | BEYU4HLR0 | Crescent_64W_32N_Aug2016_Aug2017.csv | Time-series                                  | 2020-11-06 14:13                  | 1 warnings  | Validated                 | Add documents             |
| Preview<br>Dataset       |    | BEYUVFVNW | CHABA102014.tsv                      | Profile<br>(CTD continuous)                  | 2020-11-06 11:14                  | 2 errors    | Validated                 | Add documents             |
| Submit to                |    |           |                                      |                                              |                                   |             |                           |                           |
| Archive                  |    |           |                                      |                                              |                                   |             |                           |                           |
| Clone                    |    |           |                                      |                                              |                                   |             |                           |                           |
| Submission               |    |           |                                      |                                              |                                   |             |                           |                           |
| Delete                   |    |           |                                      |                                              |                                   |             |                           |                           |
| Datasets                 |    |           |                                      |                                              |                                   |             |                           |                           |
|                          |    |           |                                      |                                              |                                   |             |                           |                           |
|                          |    |           |                                      |                                              |                                   |             |                           |                           |
|                          |    |           |                                      | NOAA   OAR   PMEL   Privacy Po               | licy   Disclaimer   Accessibility | y           |                           | v_20210414.105            |

# Upload Page

New submission records are created by selecting New Submission and uploading a data file on the Upload Data Files page. Users must specify the observation type, e.g. surface underway, profile, experiment, fish observation, etc.

| AR |                                   | OAP Sci <u>ence Da</u>                                                                            | ata Information System                               |               | Logged      | l in as |
|----|-----------------------------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------|---------------|-------------|---------|
| 2  | Upload Data Files                 |                                                                                                   |                                                      | Send Feedback | Preferences | Logout  |
|    | Upload data files for data        | hecks and archival.                                                                               |                                                      |               |             |         |
|    | Any file can be uploaded for arc  | nival. However, only ASCII-delimited (CSV, etc.                                                   | ) files and Excel spreadsheets can be checked for en | rors.         |             |         |
|    | To be checked, a delimited file r | nust include:                                                                                     |                                                      |               |             |         |
|    |                                   | h column names for every column,<br>lata column units where appropriate,<br>lines of data values. |                                                      |               |             |         |
|    | In addition, a file may contain:  |                                                                                                   |                                                      |               |             |         |
|    | 1. Any number of comment li       | nes that begin with the hash ('#') character.                                                     |                                                      |               |             |         |
|    | 2. Any number of textual line     | s before the data column header row, provided                                                     | they do not contain more than 5 columns.             |               |             |         |
|    |                                   |                                                                                                   |                                                      |               |             |         |
|    | Please Select Observation Ty      | De: 🗸 - Observation Type -                                                                        | Help about observation types.                        |               |             |         |
|    |                                   | Time-series (moorings, etc.)                                                                      |                                                      |               |             |         |
|    | Browse No file selected           | . Surface measurements (underway, discrete)<br>Profile (CTD, bottle, etc.)                        |                                                      |               |             |         |
|    | Upload                            | Gliders, etc.                                                                                     | Done                                                 |               |             |         |
|    |                                   | Pump cast<br>Model output                                                                         |                                                      |               |             |         |
|    | Advanced Options                  | Field experiment                                                                                  |                                                      |               |             |         |
|    |                                   | Laboratory experiment<br>Fish examination                                                         |                                                      |               |             |         |
|    |                                   | Biological tows                                                                                   |                                                      |               |             |         |
|    |                                   | Marine mammal observation                                                                         | vacy Policy   Disclaimer   Accessibility             |               |             |         |
|    |                                   | Other                                                                                             |                                                      |               |             |         |

#### Updates to a data file

If necessary, the user can upload a new data file to replace the previously uploaded file.

| pload a new v | ersion of the data file f | for dataset CHABA0920 | 13.ts |
|---------------|---------------------------|-----------------------|-------|
| Browse        | No file selected.         |                       |       |
| Upload        | Preview                   | Cancel                |       |
| Advanced Op   | otions                    |                       |       |

Data Column Identification

In order to use some of the SDIS features, including metadata extraction and checking for data errors, users must identify the observation variables in their dataset by selecting from a drop-down list of standard variables. Once identified, the system will remember a user's data column mappings, and the user will only have to provide additional mappings in subsequent submissions if their variables change.

After the variables have been identified, the user can then opt to check the dataset for common data errors. The checks performed depend on the observation type and the included variables.

|    | [1] record no            | [2] cruise               |   | [3] Date                 |   | [4] Time                                | [5   | ] Matlab Datenum  |      |
|----|--------------------------|--------------------------|---|--------------------------|---|-----------------------------------------|------|-------------------|------|
|    | IGNORED                  | cruise/dataset name      | • | date [mm-dd-yy]          | - | time of day                             | - 10 | GNORED            |      |
|    | (default missing values) | (default missing values) |   | (default missing values) |   | salinity - CTD QC                       |      |                   |      |
| 1  | 2741                     | ChaBa092013              |   | 9/22/13                  |   | sample ID                               |      |                   |      |
| 2  | 2742                     | ChaBa092013              |   | 9/22/13                  |   | sec of day                              |      |                   |      |
| 3  | 2743                     | ChaBa092013              |   | 9/22/13                  |   | sec of minute<br>ship dir [ deg clk N ] |      |                   |      |
| 4  | 2744                     | ChaBa092013              |   | 9/22/13                  |   | ship speed [ knots ]                    |      |                   |      |
| 5  | 2745                     | ChaBa092013              |   | 9/22/13                  |   | ship speed [ km/h ]                     |      |                   |      |
| 6  | 2746                     | ChaBa092013              |   | 9/22/13                  |   | ship speed [ m/s ]                      |      |                   |      |
| 7  | 2747                     | ChaBa092013              |   | 9/22/13                  |   | ship speed [ mph ]                      |      |                   |      |
| 8  | 2748                     | ChaBa092013              |   | 9/22/13                  |   | silicate [ umol/kg ]                    |      |                   |      |
| 9  | 2749                     | ChaBa092013              |   | 9/22/13                  |   | silicate [ mg/L ]                       |      |                   |      |
| 10 | 2750                     | ChaBa092013              |   | 9/22/13                  |   | silicate [ mL/L ]                       |      |                   |      |
| 11 | 2751                     | ChaBa092013              |   | 9/23/13                  |   | silicate QC                             |      |                   |      |
| 12 | 2752                     | ChaBa092013              |   | 9/23/13                  |   | spec humidity<br>station ID             |      |                   |      |
| 13 | 2753                     | ChaBa092013              |   | 9/23/13                  |   | temperature - air [ deg C ]             |      |                   |      |
| 14 | 2754                     | ChaBa092013              |   | 9/23/13                  |   | temperature - CTD [ degrees C           | .1   |                   |      |
| 15 | 2755                     | ChaBa092013              |   | 9/23/13                  |   | temperature - equilibrator [ deg        | -    |                   |      |
| 16 | 2756                     | ChaBa092013              |   | 9/23/13                  |   | temperature - sea surface [ de          |      |                   |      |
| 17 | 2757                     | ChaBa092013              |   | 9/23/13                  |   | ✓ time of day                           |      |                   |      |
| 18 | 2758                     | ChaBa092013              |   | 9/23/13                  |   | 1:38:12                                 | 73   | 5500.0682         |      |
| 19 | 2759                     | ChaBa092013              |   | 9/23/13                  |   | 4:41:41                                 | 73   | 5500.1956         |      |
|    | Rows shown               |                          |   |                          |   |                                         |      | no errors; 6 warn | ina  |
|    |                          |                          |   |                          |   |                                         |      |                   | Ŭ    |
|    | 1-50 of 89 🕐 😬           |                          |   |                          |   |                                         |      | Show errors/war   | ning |
|    |                          |                          |   |                          |   |                                         |      |                   |      |
|    | Done                     | Check Data               |   | ave                      |   |                                         |      |                   |      |

### Metadata Entry and Editing

The integrated Metadata Editor allows users to upload and edit metadata for their dataset. Metadata from a previous submission can be uploaded and edited, or a user can create a metadata Template for common information and start from that.

#### Metadata: Data Submitter

This section provides common information about the person submitting the dataset. The minimum required information is necessary in the event the archive needs to contact the submitter with questions about the submission and to provide updates as to the status of the archiving process. Assuming the user is the Data Submitter, the required fields will be pre-populated from information in the users Profile.

|            |                                                   | OAP Science Dat                               | ta Information              | System         |                        |                      | Logge       | ed in as   |  |  |
|------------|---------------------------------------------------|-----------------------------------------------|-----------------------------|----------------|------------------------|----------------------|-------------|------------|--|--|
| $\bigcirc$ | Manage Metadata: CHABA092013.tsv                  |                                               |                             |                |                        | Send Feedback        | Preferences | Logou      |  |  |
| Done       | ✓ Data Submitter                                  | Enter the Information for the                 | his Data Subn               | nitter         |                        |                      |             |            |  |  |
| Cancel     | ✓ Investigators                                   | (*) Denotes a required field.<br>First Name * |                             | M.I.           | Last Name <sup>1</sup> |                      |             | Ø          |  |  |
|            | <ul> <li>Citation Information</li> </ul>          | First Name                                    |                             | P              | Last Nam               |                      |             | Ť          |  |  |
|            | <ul> <li>Time and Location Information</li> </ul> | Institution *                                 |                             |                |                        |                      |             | 0          |  |  |
|            | ✓ Funding                                         | Institution                                   | Institution                 |                |                        |                      |             |            |  |  |
|            | ✓ Platforms                                       | Address Line 1                                | Address Line 1              |                |                        |                      |             |            |  |  |
|            | ✓ DIC                                             | Address First Line                            |                             |                |                        |                      |             |            |  |  |
|            | ✓ TA                                              | Address Line 2                                |                             |                |                        |                      |             |            |  |  |
|            | pH                                                | (Optional) Address Second Line                |                             |                |                        |                      |             |            |  |  |
|            | pCO2A                                             | City                                          |                             | State/Province |                        | Zip Code/Postal Code |             | 0          |  |  |
|            | pCO2D                                             | City                                          |                             | State/Province |                        | Zip Code/Postal Code |             |            |  |  |
|            | ✓ Variable                                        | Country                                       |                             |                |                        |                      |             |            |  |  |
|            | Metadata<br>Preview Download Save                 | Telephone Number                              | Extension                   | Ø              |                        |                      |             | 0          |  |  |
|            | Upload OADS Metadata File (XML, Excel, or         | Telephone Number                              | Extensior                   |                | Email add              | dress                |             |            |  |  |
|            | CSV)                                              | Researcher ID Type                            | Researcher                  |                | Ø                      |                      |             |            |  |  |
|            | Choose file:                                      | Pick and ID Type -                            | Research                    | ier ID         |                        |                      |             |            |  |  |
|            | Upload Clear All                                  | SAVE PERSON                                   |                             |                |                        |                      |             |            |  |  |
|            |                                                   | NOAA   OAR   PMEL                             | Privacy Policy   Disclaimer | Accessibility  |                        |                      | v_202       | 10413.1025 |  |  |

## Metadata: Investigators

Information about the Investigators involved is entered in the Investigators section. This form is identical to the Data Submitters for, with the exception that it allows any number of Investigators to be entered.

Metadata: Citation

The Citation section provides fields for Research Title, Abstract, and List of Authors, and general information about the dataset and research project, including the purpose and use limitations of the data, related research projects, ship cruise identifiers if appropriate, scientific references, and any additional information. Only the Title, Abstract, and List of Authors are required.

|             |                                                | OAP Science Data Information System                                                                                                                                                                                                                                                                                                                   | Logg                                  | ged in as   |  |  |  |  |  |  |
|-------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------|--|--|--|--|--|--|
|             | Manage Metadata: CHABA092013.tsv               |                                                                                                                                                                                                                                                                                                                                                       | Send Feedback Preferences             | Logout      |  |  |  |  |  |  |
| Done        | ✓ Data Submitter                               | Enter the Information about this Citation.                                                                                                                                                                                                                                                                                                            |                                       |             |  |  |  |  |  |  |
| Cancel      | ✓ Investigators                                | (*) Denotes a required field.                                                                                                                                                                                                                                                                                                                         |                                       |             |  |  |  |  |  |  |
|             | ✓ Citation Information                         | Title • O                                                                                                                                                                                                                                                                                                                                             |                                       |             |  |  |  |  |  |  |
|             | ✓ Time and Location Information                | Inorganic carbon, oxygen, nutrient and CTD measurements from the University of Washington's Puget Sound Region                                                                                                                                                                                                                                        | nal Synthesis Model (PRISM) Prog      | jrai        |  |  |  |  |  |  |
|             | ✓ Funding                                      | Abstract*                                                                                                                                                                                                                                                                                                                                             |                                       | 0           |  |  |  |  |  |  |
|             | ✓ Platforms                                    | This UW PRISM Puget Sound cruise took place from 02/04/2008 to 02/08/2008 aboard the R/V Thomas G. Thomps;<br>occupied in the Salish Sea in Washington State marine waters. The cruise was designed to obtain a synoptic snaps<br>other biogeochemical parameters as they relate to ocean acidification (OA) in Washington's estuarine and coastal er | hot of key carbon, physical, and      |             |  |  |  |  |  |  |
|             | ✓ DIC                                          | stations, CTD casts were conducted to measure temperature, conductivity, pressure, and oxygen concentrations usin<br>Discrete water samples were collected throughout the water column at all stations in Niskin bottles. Laboratory analy                                                                                                            |                                       |             |  |  |  |  |  |  |
|             | <b>√</b> TA                                    | dissolved inorganic carbon (DIC), oxygen, and nutrient concentrations and total alkalinity. More information-including a map of stations occupied during this cruise (and other Salish cruises), full-resolution CTD downcast data for all stations sampled, chlorophyll and phaeopigment concentration                                               |                                       |             |  |  |  |  |  |  |
|             | pH                                             | List of Authors for Citation *                                                                                                                                                                                                                                                                                                                        |                                       | 0           |  |  |  |  |  |  |
|             | pCO2A                                          | List of authors for citation (LastName, FirstName, MI; LastName, FirstName, MI;)                                                                                                                                                                                                                                                                      |                                       |             |  |  |  |  |  |  |
|             | pCO2D                                          | Use Limitation                                                                                                                                                                                                                                                                                                                                        |                                       | 0           |  |  |  |  |  |  |
|             | ✓ Variable                                     | Use Limitations                                                                                                                                                                                                                                                                                                                                       |                                       |             |  |  |  |  |  |  |
|             | Metadata                                       |                                                                                                                                                                                                                                                                                                                                                       |                                       |             |  |  |  |  |  |  |
|             | Preview Download Save                          |                                                                                                                                                                                                                                                                                                                                                       |                                       |             |  |  |  |  |  |  |
|             | Upload OADS Metadata File (XML, Excel, or CSV) | Purpose                                                                                                                                                                                                                                                                                                                                               |                                       | _///.<br>0  |  |  |  |  |  |  |
|             | E Choose file:                                 | The major objectives of the cruise were:<br>1) To characterize ocean acidification (OA) conditions in the Salish Sea and adjoining coastal waters:                                                                                                                                                                                                    |                                       |             |  |  |  |  |  |  |
|             | Upload Clear All                               | 2) To conduct inter-calibration measurements near other OA observing assets, including moorings, in the study area,<br>autonomous assets with bioh-quality, chiphased measurements:                                                                                                                                                                   | , allowing inter-calibration of these |             |  |  |  |  |  |  |
| iavascrint. |                                                | NOAA   OAR   PMEL   Privacy Policy   Disclaimer   Accessibility                                                                                                                                                                                                                                                                                       | v_20                                  | 210413.1025 |  |  |  |  |  |  |

#### Metadata: Time and Location Information

The Time and Location section includes the spatial and temporal bounds of the data, as well as names of the geographic areas where the data were collected. If the data has been checked by the SDIS, the spatial and temporal bounds will have been extracted from the data and filled in.

| NORR        |                                                       | OAP Sci                                                            | ience Data Info            | rmation System                 |                         |                 |                   | Logg        | jed in asl  |
|-------------|-------------------------------------------------------|--------------------------------------------------------------------|----------------------------|--------------------------------|-------------------------|-----------------|-------------------|-------------|-------------|
|             | Manage Metadata: CHABA092013.tsv                      |                                                                    |                            |                                |                         |                 | Send Feedback     | Preferences | Logout      |
| Done        | Data Submitter Investigators     Citation Information | Enter the Informa<br>(*) Denotes a required field.<br>Start Date * | ation about the<br>ຍ       | Time and Loca                  | tion.<br>ø              | Spatial Ref     | ference System    |             | 0           |
|             | ✓ Time and Location Information                       | 2013-09-22                                                         |                            | 2013-09-25                     |                         | WGS 84          |                   |             |             |
|             | ✓ Funding                                             |                                                                    | Geographic Extents         |                                |                         |                 | 0                 |             |             |
|             | ✓ Platforms                                           |                                                                    |                            | North Latitude                 | 0                       |                 |                   |             |             |
|             | ✓ DIC                                                 |                                                                    |                            | 48.467                         |                         |                 |                   |             |             |
|             | <b>√</b> TA                                           |                                                                    | West Longitude             | Ø                              | East Longitude          |                 | Ø                 |             |             |
|             | рН                                                    |                                                                    | -125.016                   |                                | -122.455                |                 |                   |             |             |
|             | pCO2A                                                 |                                                                    |                            | South Latitude                 | 0                       |                 |                   |             |             |
|             | pCO2D                                                 |                                                                    |                            |                                |                         |                 |                   |             |             |
|             | ✓ Variable                                            | Geographic Names                                                   |                            | 0                              | Location of Organism Co | llection (Biolo | gical Study Only) |             | 0           |
|             | Metadata                                              | Salish Sea, Puget Soun                                             | d, Strait of Juan de Fuca, | , U.S. West Coast, C           | Location of Organism    | Collection      |                   |             |             |
|             | Preview Download Save                                 | SAVE TIME & LOCATIO                                                | N                          |                                |                         |                 |                   |             |             |
|             | Upload OADS Metadata File (XML, Excel, or<br>CSV)     |                                                                    | -                          |                                |                         |                 |                   |             |             |
|             | Upload Clear All                                      |                                                                    |                            |                                |                         |                 |                   |             |             |
| iavascript- |                                                       | NOAA                                                               | OAR   PMEL   Privacy Polic | y   Disclaimer   Accessibility |                         |                 |                   | v_200       | 210413.1025 |

#### Metadata: Funding

Information about the project funding including Grant Number, Funding Agency, and Project Title. is entered in the Funding section. If the project was funded by NOAA's Ocean Acidification Program (OAP), the funding details can be filled by selecting the grant number from a drop-down list.

| RORE        |                                                                                                                                                                                                                                                                                                                                                                                                                       | OAP Science Data Information System                             |               | Logg        | ed in as   |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------|-------------|------------|
| $\bigcirc$  | Manage Metadata: CHABA092013.tsv                                                                                                                                                                                                                                                                                                                                                                                      |                                                                 | Send Feedback | Preferences | Logout     |
| Done Cancel | Manage Metadata: CHABA092013.tsv <ul> <li>Data Submitter</li> <li>Investigators</li> <li>Citation Information</li> <li>Time and Location Information</li> </ul> <ul> <li>Citation Information</li> <li>Time and Location Information</li> </ul> <ul> <li>Platforms</li> <li>DIC</li> <li>TA</li> <li>pH</li> <li>pC02A</li> <li>pC02D</li> <li>Variable</li> </ul> Metadata         Preview       Download       Save | CAP Science Data Information System                             |               |             |            |
|             | Upload OADS Metadata File (XML, Excel, or<br>CSV)<br>Choose file:                                                                                                                                                                                                                                                                                                                                                     |                                                                 |               |             |            |
|             |                                                                                                                                                                                                                                                                                                                                                                                                                       | NOAA   OAR   PMEL   Privacy Policy   Disclaimer   Accessibility |               | v 202       | 10413.1025 |

#### Metadata: Platforms

Details about the observation platform(s) used to collect the data including Name, Identifier, Country of Registration, Owner, and Type, are entered in the Platforms section. Multiple Platforms may be entered.

| NOR         | OAP Science Data Information System |                                                                                         |                                 |                             |                       |                                                          |  |               | Log         | ged in as   |   |
|-------------|-------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------|-----------------------------|-----------------------|----------------------------------------------------------|--|---------------|-------------|-------------|---|
| $\bigcirc$  | Manage Metadata: CHABA092013.tsv    |                                                                                         |                                 |                             |                       |                                                          |  | Send Feedback | Preferences | Logout      | t |
| Done Cancel | Manage Metadata: CHABA092013.tsv    | Enter the P<br>CZ Edit<br>Platform Name<br>Platform Type<br>Platform Type<br>SAVE PLATE | Name<br>R/V Thomas G. Thor<br>2 |                             | Platform Typ          | more than one<br>pe<br>s, TAGOR-23<br>Country<br>Country |  | Send Feedback | Preferences |             |   |
|             | Upload Clear All                    |                                                                                         |                                 |                             |                       |                                                          |  |               |             |             |   |
|             |                                     |                                                                                         | NOAA   OAR   PM                 | EL   Privacy Policy   Discl | aimer   Accessibility |                                                          |  |               | v 20        | 210413.1025 |   |

#### Metadata: Variables

Details about the collection and handling of the observed variables are gathered in the Variables sections. There are five observed variables that are common in OAP observations – Dissolved Inorganic Carbon (DIC), Total Alkalinity (TA), pH, and  $CO_2$  measured discretely or continuously – and those variables each have their own section, and then there is a section to add all the other variables that are included in the dataset. All the Variable sections are largely the same, although with slight differences in the specific detailed information gathered for each of the variables with their own section.

The DIC section is shown as exemplary.

| Manage Metadata: CHABA092013.ts                     |                                                                                                                                                                                                                                                                | e Data Infor                                                                                                                                                                                                                                                                                        | mation Systen                                                                    |                                                                                       |                                                         | Send Feedback Prefer                                 | Logged i     |  |  |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------|--------------|--|--|
| Data Submitter                                      | Enter the Information                                                                                                                                                                                                                                          | for Dissolv                                                                                                                                                                                                                                                                                         | ed Inorganic C                                                                   | arbon (DIC).                                                                          |                                                         |                                                      |              |  |  |
| el Investigators                                    | (*) Denotes a required field.<br>Variable Abbreviation *                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                     |                                                                                  |                                                                                       | Observation Type                                        |                                                      |              |  |  |
| Citation Information  Time and Location Information | DIC_umol_kg                                                                                                                                                                                                                                                    | Dissolved i                                                                                                                                                                                                                                                                                         | norganic carbon                                                                  |                                                                                       | Discrete n                                              | neasurements from sam                                | ples collect |  |  |
| Funding                                             | Sampling Instrument                                                                                                                                                                                                                                            | 9                                                                                                                                                                                                                                                                                                   | Analyzing Instrument                                                             | 0                                                                                     |                                                         | Units                                                | 6            |  |  |
| ✓ Platforms                                         | Niskin bottle                                                                                                                                                                                                                                                  | a                                                                                                                                                                                                                                                                                                   | Two systems consistin<br>Measured or Calculated                                  | ng of a coulometer (UIC                                                               | Manipulatior                                            | micromoles per kilog                                 | ram of sea   |  |  |
| ✓ DIC                                               | in-situ observation•                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                     |                                                                                  | r Calculated -                                                                        | Not applic                                              |                                                      |              |  |  |
| <b>√</b> TA                                         | Calculation Method and Parameter                                                                                                                                                                                                                               | s 0                                                                                                                                                                                                                                                                                                 |                                                                                  |                                                                                       | Method Refe                                             | rence (citation)                                     | 6            |  |  |
| pH                                                  | Not applicable                                                                                                                                                                                                                                                 | Not applicable                                                                                                                                                                                                                                                                                      |                                                                                  |                                                                                       | Dickson, A.G., C.L. Sabine, and J.R. Christia           |                                                      |              |  |  |
| pCO2A                                               | Detailed Sampling and Analyzing In                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                     |                                                                                  |                                                                                       |                                                         |                                                      | 6            |  |  |
| pCO2D                                               | PLEASE NOTE: DIC may be referred to as TCO2, TCARBN, or C(sub)T in other data sets. All of these abbreviations refer to the total d<br>inorganic carbon concentration (i.e., the combined concentration of dissolved CO2, bicarbonate ion, and carbonate ion). |                                                                                                                                                                                                                                                                                                     |                                                                                  |                                                                                       |                                                         |                                                      |              |  |  |
| ✓ Variable                                          |                                                                                                                                                                                                                                                                | Samples for DIC measurements were drawn according to procedures outlined in the 2007 PICES Special Publication, Guide to Best Practices for<br>Ocean CO2 Measurements, from Niskin bottles into ~0.5 L borosilicate class flasks using silicone tubing. The flasks were rinsed once and filled from |                                                                                  |                                                                                       |                                                         |                                                      |              |  |  |
| Metadata<br>Preview Download Save                   | the bottom with care not to entra<br>small headspace, and 0.2 mL of<br>lightly covered with Apiezon-L g<br>duplicates. Sample bottles were                                                                                                                     | in any bubbles, ove<br>saturated HgCl2 so<br>rease. DIC samples                                                                                                                                                                                                                                     | rflowing by at least one-<br>olution was added as a p<br>were collected from var | half volume. The sample t<br>reservative. The sample b<br>iety of depths with approxi | ube was pinched<br>ottles were then<br>mately 10% of th | l off and withdrawn, crea<br>sealed with glass stopp | ting a       |  |  |
| Upload OADS Metadata File (XML, Excel, or<br>CSV)   | duplicates. Cample Dolles were                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                     | nee to ensure mixing of                                                          | and right anoughout the :                                                             | annpro.                                                 |                                                      | 1            |  |  |
|                                                     | Uncertainty                                                                                                                                                                                                                                                    | Data Quality                                                                                                                                                                                                                                                                                        | Flag Description 0                                                               | Researcher Name                                                                       | 0                                                       | Researcher Institution                               |              |  |  |
| 🖕 Choose file:                                      |                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                     |                                                                                  |                                                                                       |                                                         |                                                      | 6            |  |  |
| Choose file:                                        | ±0.1%                                                                                                                                                                                                                                                          | DIC_QC, V                                                                                                                                                                                                                                                                                           | OCE quality control                                                              | Dana Greeley                                                                          |                                                         | Pacific Marine Enviro                                |              |  |  |

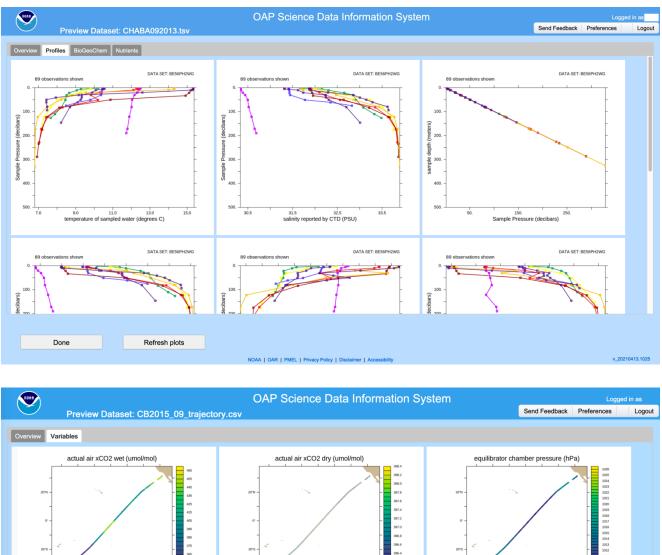
# **Supplemental Documents**

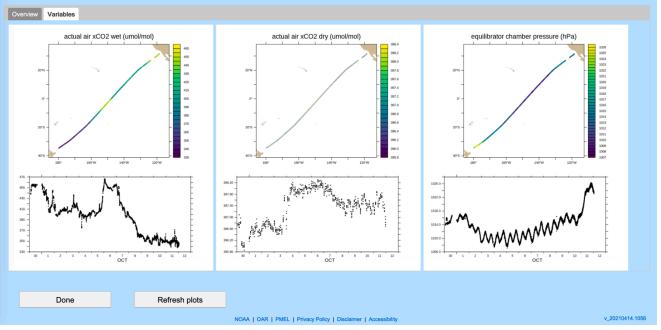
Any additional documents that are to be submitted with the dataset are uploaded on the Supplemental Documents page. Typical supplemental documents include ship or experiment reports, observation images, and the like.

|                                                      |                                         | OAP Science Data Information System                             | Logged in as                     |  |  |  |  |  |
|------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------|----------------------------------|--|--|--|--|--|
| $\mathbf{O}$                                         | Supplemental Documents: CHABA092013.tsv |                                                                 | Send Feedback Preferences Logout |  |  |  |  |  |
| Supplemental documents associated with the datasets: |                                         |                                                                 |                                  |  |  |  |  |  |
| CHABA                                                | \092013.tsv                             |                                                                 |                                  |  |  |  |  |  |
|                                                      | <ul> <li>Filename</li> </ul>            | Upload date D                                                   | Dataset                          |  |  |  |  |  |
| Delete                                               | SF_2020-09-09.jpg                       | 2021-02-24 11:29 -0800 B                                        | 8E56PH2WG                        |  |  |  |  |  |
|                                                      |                                         |                                                                 |                                  |  |  |  |  |  |
|                                                      |                                         |                                                                 |                                  |  |  |  |  |  |
|                                                      |                                         |                                                                 |                                  |  |  |  |  |  |
|                                                      |                                         |                                                                 |                                  |  |  |  |  |  |
|                                                      |                                         |                                                                 |                                  |  |  |  |  |  |
|                                                      |                                         |                                                                 |                                  |  |  |  |  |  |
|                                                      |                                         |                                                                 |                                  |  |  |  |  |  |
| Browse                                               | . No files selected.                    |                                                                 |                                  |  |  |  |  |  |
| Browse.                                              | No hies selected.                       |                                                                 |                                  |  |  |  |  |  |
|                                                      | Upload Done                             |                                                                 |                                  |  |  |  |  |  |
|                                                      |                                         |                                                                 |                                  |  |  |  |  |  |
|                                                      |                                         |                                                                 |                                  |  |  |  |  |  |
|                                                      |                                         |                                                                 |                                  |  |  |  |  |  |
|                                                      |                                         |                                                                 |                                  |  |  |  |  |  |
|                                                      |                                         |                                                                 |                                  |  |  |  |  |  |
|                                                      |                                         |                                                                 |                                  |  |  |  |  |  |
|                                                      |                                         | NOAA   OAR   PMEL   Privacy Policy   Disclaimer   Accessibility | v_20210413.1025                  |  |  |  |  |  |

## Data Preview Plots

If the user chooses, the SDIS can generate thumbnail preview plots of the data. Shown are example plots for profile and underway observations.





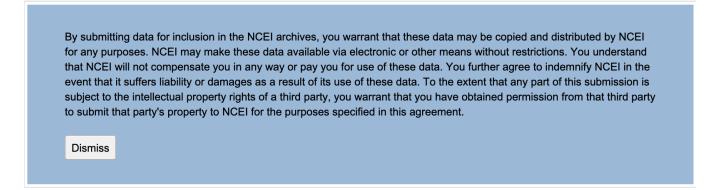
#### Submit to Archive

When ready, the data is submitted to the Archive on the Submit to Archive page. On this page there is the opportunity to add an optional message for the archival staff, as well as request that a

DOI be provided for the submitted dataset. If this is an update of or addendum to a prior submission, the user can select those options and provide the accession number of the prior submission.

|                                                                                                                                                                                                                                       | OAP Science Data Information System                                             | Logged in as                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------|
| Submit Datasets for Archving:                                                                                                                                                                                                         |                                                                                 | Send Feedback Preferences Logout                              |
| The following files will be archived at NCEI:                                                                                                                                                                                         | Data File : CB2015_09_trajectory.csv     Metadata File : BE9A8FMNP_metadata.xml | Submission status for BE9A8FMNP<br>Package not yet submitted. |
| <b>Optional Submission Comment:</b>                                                                                                                                                                                                   |                                                                                 |                                                               |
| This optional comment will not be archived.<br>Do not use this comment to include metada<br>other important dataset information.<br>Its use is solely to communicate special infor<br>or archiving considerations to the archive stat | nation                                                                          |                                                               |
|                                                                                                                                                                                                                                       |                                                                                 |                                                               |
|                                                                                                                                                                                                                                       | NOAA   OAR   PMEL   Privacy Policy   Disclaimer   Accessibility                 | v_20210414.1754                                               |

The user must also agree to the Publication Policy Agreement before submitting.



After submission, the status of the archival process will be updated in the status section.