

ESS-DIVE New User Bootcamp

Emily Robles

Environmental Data Management Research Associate



ESS PI Meeting 2022

Tutorial Overview

Part 1: Creating Datasets

- Components of a dataset
- Choosing an upload method
- **Hands-on:** Create a dataset on the ESS-DIVE Sandbox

Part 2: Data Publication Process

- Publication cycle and review workflow
- Reviewing Assessment Reports

Break

Part 3: Data Search and Download

- Navigating the Data Search page
- How to use filter and search capabilities
- **Hands-on:** Search for and download published data

Part 4: Registering as a Data Contributor

- Completing the registration form

Remaining Questions

Takeaways

By the end of this presentation, you should be able to..

- **Create** and **publish** datasets
- **Share** your datasets with collaborators and team members
- **Search for** and **download** datasets from ESS-DIVE
- Utilize ESS-DIVE's **help documentation, resources,** and **support**

CREATING A DATASET

Dataset publication at a glance

Collect your data files



01

Collect and organize data files related to your findings, tables, and figures.

Refer to **ESS-DIVE reporting formats**.

Upload data + metadata



02

Ensure metadata complies with ESS-DIVE requirements.

Choose your upload method and submit your dataset.

Review your **automated assessment report**.

Review and publish

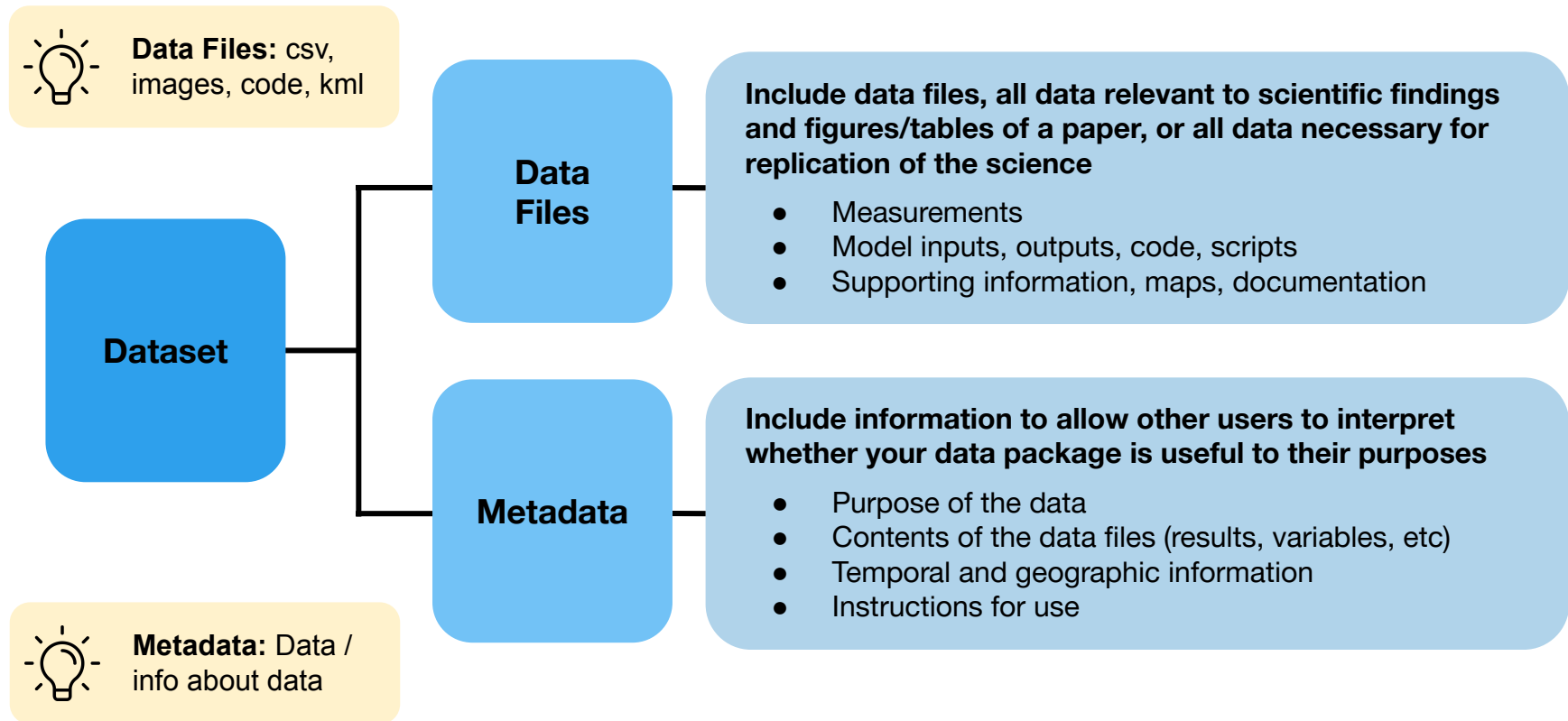


03

Request publication and address revision requests from ESS-DIVE team review.

Meet the funding/journal publishing time frame.

Components of a dataset



Choosing an upload method

Upload Method	File volume	No. of files	Considerations
Data Submission Web Form	< 10 GB	< 100	Immediate upload. Easy to follow guidance throughout form.
Package Service API	10 - 500 GB	< 100	Takes initial investment of time to set up, but immediate upload. Technical skills helpful but not required (see tutorials).
High Bandwidth Upload Service	> 500 GB	> 100	Longest process, and requires collaboration with Support Team and use of a separate desktop app. Can use if unfamiliar with scripting.



Contact ess-dive-support@lbl.gov if you need to:

(a) upload more than 10GB of data or (b) use the High Bandwidth Upload Service

Choosing an upload method

Package Service API

- A **programmatic** method creating new datasets and editing existing datasets
 - Upload files and create metadata using JSON-LD
- Bulk edit/upload capabilities
- Download any public datasets

Data Submission Web Form ★

- **Manually** enter dataset metadata on the ESS-DIVE user interface (UI)
- Create and edit datasets **one at a time**
- Drag and drop or select files from your file manager to upload data
- Edit datasets through the web form

Tools and support for dataset creation



Help Documentation

Refer to [ESS-DIVE's website](#) and [Gitbooks](#) for detailed information on dataset requirements.



Metadata Guide and Offline Template

Review our complete [Metadata Guidelines](#).

Collaborate on metadata with co-authors using an [offline template](#) before working on ESS-DIVE.



Sandbox Testing Server

Practice uploading data packages to our [sandbox test server](#), which does not permanently save data.



Support Email Service

Feel free to **contact the ESS-DIVE support team** with questions!

ess-dive-support@lbl.gov
ess-dive.lbl.gov/contact/

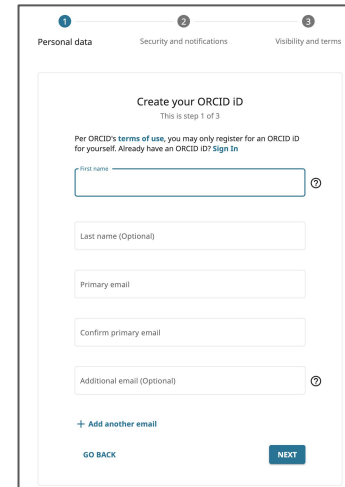
HANDS-ON

Creating and Submitting a Dataset

Break - Create an ORCiD

The ESS-DIVE Sandbox and Main Portal both require an ORCiD account to login and submit data.

<https://orcid.org/register>

A screenshot of the ORCID registration form, specifically the "Create your ORCID ID" step. The form is titled "Create your ORCID ID" and indicates it is "Step 1 of 3". It includes a warning about ORCID's terms of use. The form fields are: "First name" (required), "Last name (Optional)", "Primary email", "Confirm primary email", and "Additional email (Optional)" (with a help icon). There is a "+ Add another email" link and "GO BACK" and "NEXT" buttons at the bottom.

Navigate to ESS-DIVE Sandbox

Sandbox is a test system where you can practice uploading data. This data is **NOT** preserved in ESS-DIVE.

<https://data-sandbox.ess-dive.lbl.gov>

This is a temporary web site for testing and tutorials only. Click [here](#) for the production ESS-DIVE data archive.

✉ Need help? Email us at ess-dive-support@lbl.gov



Login with ORCiD account



This is a temporary web site for testing and tutorials only. Click [here](#) for the production ESS-DIVE data archive.

Need help? Email us at ess-dive-support@rl.gov

ESS-DIVE
Deep Insight for Earth Science Data

DATA PORTALS SUPPORT ABOUT **SUBMIT DATA** **Sign in with Orcid**

Search Search phrase

Filter by:

- Project
- Identifier
- Region description
- Creator
- Year
- Access

DATASETS 1 TO 25 OF 42

1 2 Next Sort by Most recent

Hockstad L ; Hanel L (2018): **Inventory of U.S. Greenhouse Gas Emissions and Sinks**. CDIAC, ESS-DIVE repository. Dataset. ess-dive-a9c6c8979724e46-20210521T114858119272

Goyet C ; Healy R ; Ryan J (2000): **Global Distribution of Total Inorganic Carbon and Total Alkalinity Below the Deepest Winter Mixed Layer Depths**. CDIAC, ESS-DIVE repository. Dataset. ess-dive-6708194c4c2b0b8-20210521T114856338040

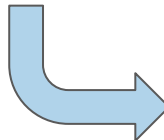
Goyet C ; Key R M ; Sullivan K F ; Tsuchiya M (1997): **CO₂, Hydrographic, and Chemical Data Obtained During the R/V Thomas Washington Cruise TUNES-1 in the Equatorial Pacific Ocean (WOCE section P17C)**. CDIAC, ESS-DIVE repository. Dataset. ess-dive-486eff1b81566a4-20210521T114853386594

Griffis T ; Hu C ; Baker J ; Wood J ; Millet D ; Erickson M ; Yu Z ; Deventer M J ; Winker C ; Chen Z (2019): **KCMP Minnesota Tall Tower Ammonia Observations and Emission Estimates Dataset 2017-2018**. AmeriFlux Network Management Project, ESS-DIVE repository. Dataset. ess-dive-00d15e6fee81368-20210521T114850480312

Hide Map >

Satellite Terrain

Keyboard shortcuts Map data ©2022 2000 km Terms of Use



Sign in

Email or 16-digit ORCID ID

example@email.com or 0000-0001-2345-6789

Password

SIGN IN

[Forgot your password or ORCID ID?](#)

Don't have an ORCID ID yet? [Register now](#)

or

Access through your institution

Sign in with Google

Sign in with Facebook

Add email address to your profile



web site for testing and tutorials only. Click [here](#) for the production ESS-DIVE data archive.

us at ess-dive-support@lbl.gov

S-DIVE
Deep Insight for Earth Science Data

DATA PORTALS SUPPORT ABOUT **SUBMIT DATA** MADISON

Please provide an email address to submit data

[Update Email Address](#)



This is a temporary web site for testing and tutorials only. Click [here](#) for the production ESS-DIVE data archive.

Need help? Email us at ess-dive-support@lbl.gov

ESS-DIVE
Deep Insight for Earth Science Data

DATA PORTALS SUPPORT ABOUT **SUBMIT DATA** MADISON

[My Data](#) [Settings](#)

Welcome, Madison

Settings

My account

My portals ★ Alpha

Authentication Token

Edit information

Username

First name

Last name

Email Your email is not publicly visible on your profile

Please provide an email address.

[Save](#)

My Other Accounts

If you have uploaded data with another account(s), you can link your accounts together so that you can log in with just one and manage all your data.

You haven't linked to another account yet. Send a request below.


[Add Another Account](#)

Navigate to submission form



This is a temporary web site for testing and tutorials only. Click [here](#) for the production ESS-DIVE data archive.

✉ Need help? Email us at ess-dive-support@lbl.gov

 **ESS-DIVE**
Deep Insight for Earth Science Data

DATA PORTALS SUPPORT ABOUT **SUBMIT DATA** 👤 - MADISON

📅 My Data ⚙ Settings

Welcome, Madison

Settings

- My account
- My portals ★ Alpha
- Authentication Token

Edit information

Success! Your profile has been updated.

Username

First name

Last name

Email Your email is not publicly visible on your profile

Save

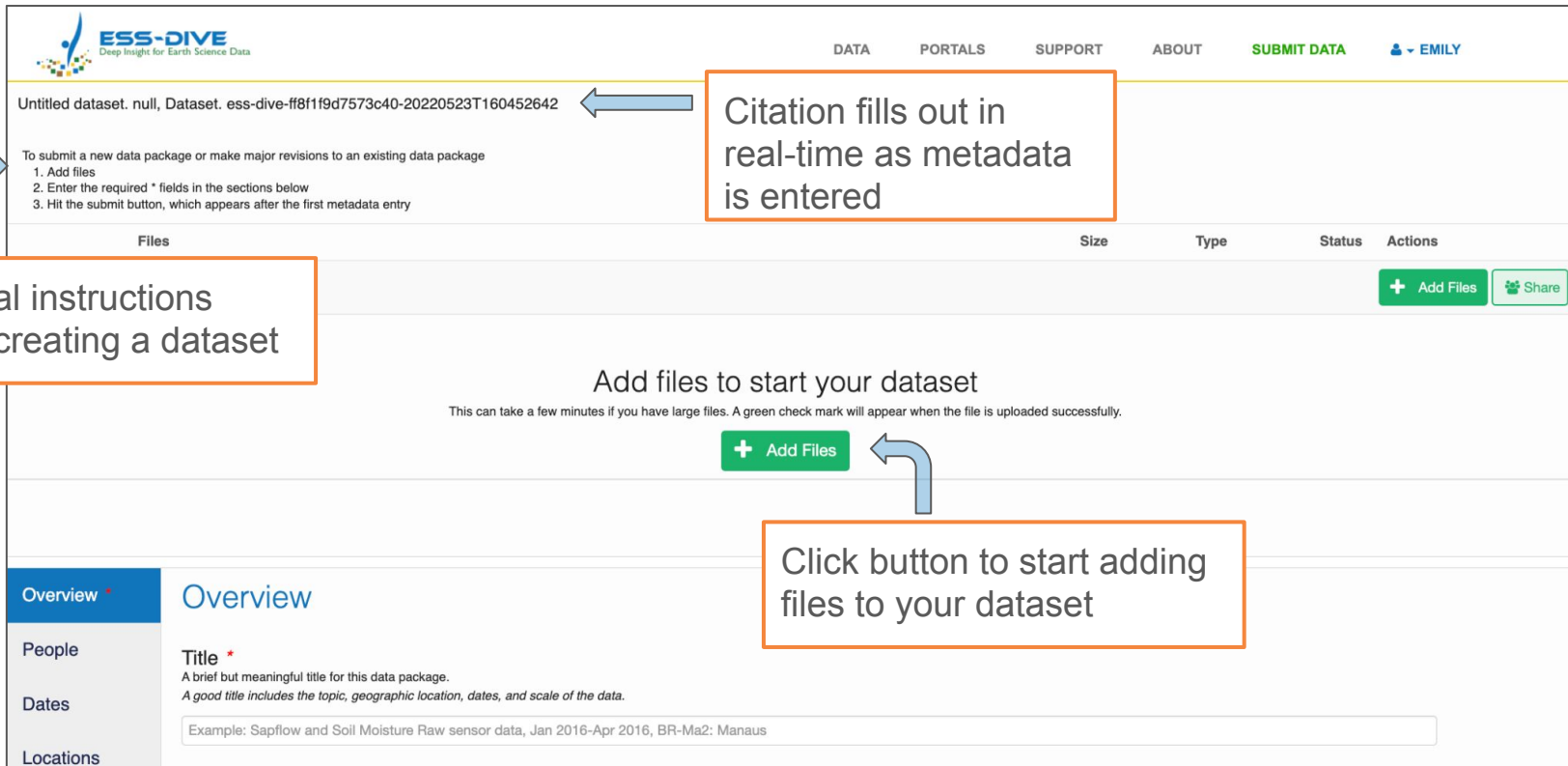
My Other Accounts

If you have uploaded data with another account(s), you can link your accounts together so that you can log in with just one and manage all your data.

You haven't linked to another account yet. Send a request below.

Add Another Account

Dataset submission form



The screenshot shows the ESS-DIVE dataset submission interface. At the top, the ESS-DIVE logo and navigation links (DATA, PORTALS, SUPPORT, ABOUT, SUBMIT DATA, and a user profile for EMILY) are visible. The main content area displays the dataset name 'Untitled dataset. null, Dataset. ess-dive-ff8f1f9d7573c40-20220523T160452642' with a blue arrow pointing to it from an annotation box. Below this, general instructions for submitting a new data package are listed. A table header for 'Files' is shown, with columns for 'Size', 'Type', 'Status', and 'Actions'. A blue arrow points from an annotation box to the 'Add Files' button in the table's actions column. Below the table, a section titled 'Add files to start your dataset' includes a note about upload time and a green 'Add Files' button, with a blue arrow pointing to it from an annotation box. On the left, a sidebar contains a menu with 'Overview', 'People', 'Dates', and 'Locations'. The 'Overview' section is active, showing a 'Title' field with a red asterisk and a description: 'A brief but meaningful title for this data package. A good title includes the topic, geographic location, dates, and scale of the data.' An example title is provided: 'Example: Sapflow and Soil Moisture Raw sensor data, Jan 2016-Apr 2016, BR-Ma2: Manaus'. An annotation box with a blue arrow points to the 'Add Files' button in the table.

ESS-DIVE
Deep insight for Earth Science Data

DATA PORTALS SUPPORT ABOUT SUBMIT DATA EMILY

Untitled dataset. null, Dataset. ess-dive-ff8f1f9d7573c40-20220523T160452642

To submit a new data package or make major revisions to an existing data package

1. Add files
2. Enter the required * fields in the sections below
3. Hit the submit button, which appears after the first metadata entry

Files	Size	Type	Status	Actions
				+ Add Files Share

Add files to start your dataset

This can take a few minutes if you have large files. A green check mark will appear when the file is uploaded successfully.

[+ Add Files](#)

Click button to start adding files to your dataset

Overview * Overview

People

Dates

Locations

Title *
A brief but meaningful title for this data package.
A good title includes the topic, geographic location, dates, and scale of the data.

Example: Sapflow and Soil Moisture Raw sensor data, Jan 2016-Apr 2016, BR-Ma2: Manaus

Dataset submission form



Files		Size	Type	Status	Actions
▼	Beginner's Tutorial Test Submission	2 KB			<div><div>+</div> Add Files</div> <div>Remove this file</div> <div><div>Share</div></div>
	BeginnerTutorialFile2.pdf	16 KB	Data	✓	<div>Remove</div>
	BeginnerTutorialFile1.rtf	430 B	Data	✓	<div>Remove</div>

Files can be removed by selecting the Remove option under Actions

Fill in metadata fields



Metadata describe the data that you are uploading

Overview *

People

Dates

Locations

Methods

Overview

Title *

A brief but meaningful title for this data package.
A good title includes the topic, geographic location, dates, and scale of the data.

Example: Sapflow and Soil Moisture Raw sensor data, Jan 2016-Apr 2016, BR-Ma2: Manaus

Existing DOI and Alternate Identifiers

DOI and alternate identifiers of the data package if it has been previously published elsewhere. Alternate identifiers provide pertinent information that can identify and locate the data set within your site's data management system.
Enter as many identifiers as needed below.

Example: <http://dx.doi.org/10.15486/NGT/XXXXXXX>

Abstract *

A concise description of the purpose and content of this data package.
A good abstract would provide users with adequate information to determine if the data are useful for their needs.

Example: Raw output from the data logger connected to 9 sapflow and 5 soil moisture sensors are provided in xxx.dat. The metadata file (BR-Ma2 E-field log_20160501.xls) has information on locations where the sensors were installed, and other installation/maintenance details. No data processing or QA/QC was done on the raw data packages. Processed data packages will be uploaded separately.

Keywords *

Keywords that should be associated with this data package to enable thematic searches.
Search for a keyword from the list or write in your own. Tab or click enter to add to the list below with one keyword per line. The list contains [GCMD keywords](#).
[Use autocomplete feature to pick from the existing keywords.](#)

Example: EARTH SCIENCE > LAND SURFACE > SOILS

Required fields marked with *

Field descriptions and instructions provided

Example inputs are shown in the entry boxes

Fill in metadata fields



Keywords *

Keywords that should be associated with this data package to enable thematic searches.

Search for a keyword from the list or write in your own. Tab or click enter to add to the list below with one keyword per line. The list contains **GCMD** keywords.

Use autocomplete feature to pick from the existing keywords.

Soil

EARTH SCIENCE > AGRICULTURE > SOILS: CATEGORICAL:GCMD

EARTH SCIENCE > LAND SURFACE > SOILS: CATEGORICAL:GCMD

Some fields have
autocomplete entry options

Project *

Enter the name of the DOE project to associate with this data package. The project is cited as the publisher of this dataset.

If multiple projects were involved, enter the project that had the largest contribution to this data package.

Search by from the list or write in your own. Tab or click enter to add to the list below.

Use autocomplete feature to pick from the existing projects. If you can not find your project name, try searching by the PI name.

NGEE

Next-Generation Ecosystem Experiments (NGEE) Tropics [PI: Jeffrey Chambers]

NASA Contribution to NGEE Tropics [PI: Douglas Morton]

Next-Generation Ecosystem Experiments (NGEE) Arctic [PI: Stan Wullschleger]

Fill in metadata fields



Overview *

People

Dates

Locations

Methods

Overview

Title *

A brief but
A good title

Example: Manaus

Existing DOI and Alternate Identifiers

DOI and alternate identifiers of the data package if it has been previously published elsewhere. Alternate identifiers provide pertinent information that can identify and locate the data set within your site's data management system. Enter as many identifiers as needed below.

Example: <http://dx.doi.org/10.15486/NGT/XXXXXX>

Abstract *

A concise description of the purpose and content of this data package.
A good abstract would provide users with adequate information to determine if the data are useful for their needs.

Example: Raw output from the data logger connected to 9 sapflow and 5 soil moisture sensors are provided in xxx.dat. The metadata file (BR-Ma2 E-field log_20160501.xls) has information on where the sensors were installed, and other installation/maintenance details. No data processing or QA/QC was done on the raw data packages. Processed data packages will be uploaded separately.

Submitting your dataset



Overview *

People

Dates

Locations

Methods

Title *

A brief but meaningful title for this data package.

A good title includes the topic, geographic location, dates, and scale of the data.

Example: Sapflow and Soil Moisture Raw sensor data, Jan 2016-Apr 2016, BR-Ma2: Manaus

Existing DOI and Alternate Identifiers

DOI and alternate identifiers of the data package if it has been previously published elsewhere. Alternate identifiers provide pertinent information that can identify and locate the data set within your site's data management system.

Enter as many identifiers as needed below.

Example: <http://dx.doi.org/10.15486/NGT/XXXXXX>

Abstract *

A concise description of the purpose and content of this data package.

A good abstract would provide users with adequate information to determine if the data are useful for their needs.

Example: Raw output from the data logger connected to file (BR-Ma2 E-field log_20160501.xls) has information on installation/maintenance details. No data processing or analysis was uploaded separately.

When you have finished completing at least the **required** metadata fields, you can select submit to save your dataset.

By submitting your dataset, you agree to the [ESS-DIVE terms of use](#).

Submit Dataset

Submitting your dataset

Your dataset edits have been saved.

The dataset will not be publicly available until you click on the Publish button

Next Steps:

- Click "Continue Editing" if you need to make further changes to the dataset.
- Click "I'm Done" if you are finished editing the metadata and uploading files. This will take you out of edit mode, where you can view your dataset and click on the Publish button when ready.



I'm Done

Continue Editing

Select "I'm Done"

U.S. DOE > Office of Science > B

Methods

DOE Contracts

If applicable, list the numbers of any DOE contract under which the data in the package was funded. If the data were a result of a joint effort between two or more DOE Site/Facility Management Contractors, etc., additional DOE contract numbers may be entered.

Search for a DOE Contract from the list of institutions or write in your own. Tab or click enter to add to the list below.

Use autocomplete feature to pick from the existing DOE Contracts.

Example: AC0205CH11231

Related References

Associated publications or data packages where users can learn more about the dataset, processing method, or how the data were used.

Enter the DOIs of all related papers or data packages. If no DOI is available, enter the current citation information for the reference.

Reference 1

Example: Somebody J. (2018), Sap flow and soil moisture coupling in the Amazon, in prep.

If you want to stay on the web form to make additional changes, select "Continue Editing."

"I'm Done" will bring you out of edit mode so that you can view your dataset and publish when ready.


Viewing your submitted dataset



This is a temporary web site for testing and tutorials only. Click [here](#) for the production ESS-DIVE data archive.


✕

✉ Need help? Email us at ess-dive-support@lbl.gov

DATAPORTALSSUPPORTABOUTSUBMIT DATAEMILY

[Home](#) / [Search](#) / [Metadata](#)

Robles E (2022): Beginner's Tutorial Test Submission. Next-Generation Ecosystem Experiments (NGEE) Tropics, ESS-DIVE repository. Dataset. [ess-dive-e4695e86c73c2fe-20220523T191519546](#) accessed via <https://data-sandbox.ess-dive.lbl.gov/datasets/ess-dive-e4695e86c73c2fe-20220523T191519546> on 2022-05-23



[Copy Citation](#)[Edit](#)[Publish](#)

Files in this dataset Package: [ess-dive-034ca72b0046ae3-20220523T191519535](#)

Name	
Metadata: Beginner_s_Tutorial_Test.xml	
BeginnerTutorialFile2.pdf	More
BeginnerTutorialFile1.rtf	More

Download individual files or select "Download All" to download a zip file

[Download](#)[Download](#)[Download](#)

General

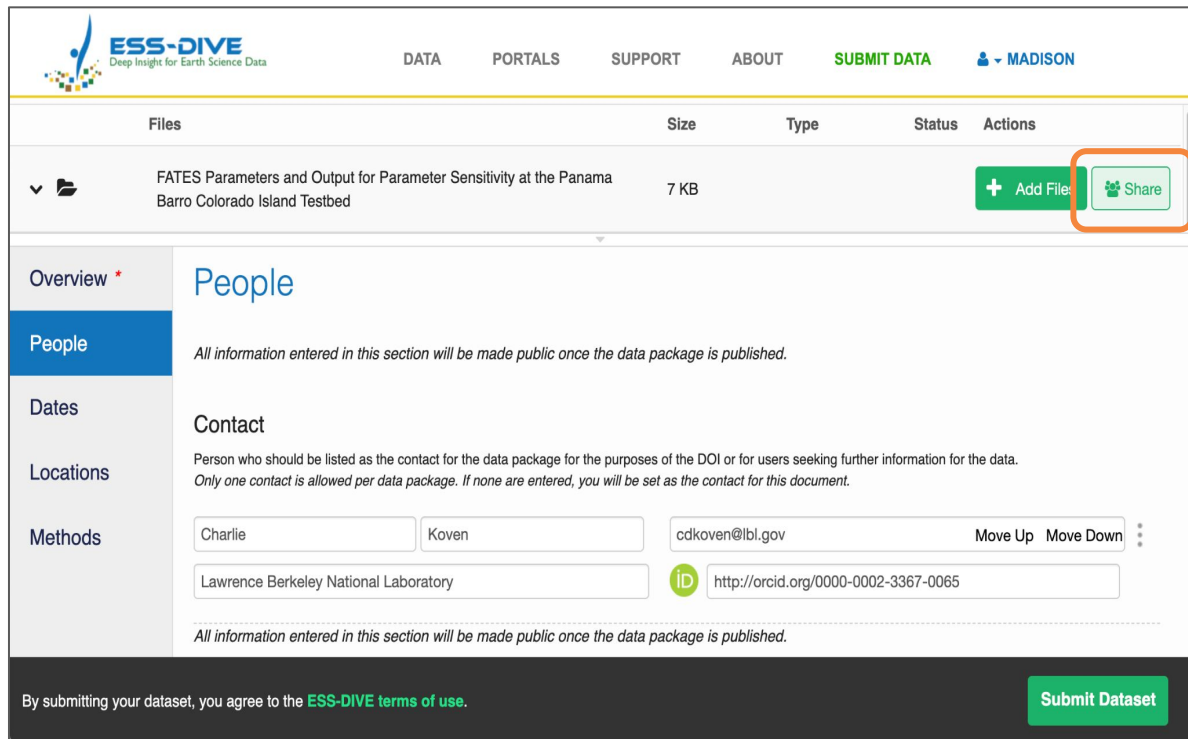
Identifier


Click "Edit" to make further changes

Publish when finished making changes

Download individual files or select "Download All" to download a zip file

New feature: Sharing your dataset

A screenshot of the ESS-DIVE web interface. The top navigation bar includes the ESS-DIVE logo, a search bar, and links for DATA, PORTALS, SUPPORT, ABOUT, SUBMIT DATA, and a user profile for MADISON. Below the navigation bar is a table of files. The first file listed is "FATES Parameters and Output for Parameter Sensitivity at the Panama Barro Colorado Island Testbed", which is 7 KB in size. The "Actions" column for this file contains two buttons: "Add Files" and "Share". The "Share" button is highlighted with an orange rectangle. An orange arrow points from this button to a larger, zoomed-in version of the "Share" button on the right. The left sidebar shows a navigation menu with "Overview", "People", "Dates", "Locations", and "Methods". The "People" section is active, displaying a "Contact" form with fields for Name (Charlie Koven), Email (cdkoven@lbl.gov), and ORCID ID (http://orcid.org/0000-0002-3367-0065). A "Submit Dataset" button is located at the bottom right of the interface.

Files	Size	Type	Status	Actions
✓  FATES Parameters and Output for Parameter Sensitivity at the Panama Barro Colorado Island Testbed	7 KB			+ Add Files Share

Overview *

People

Dates

Locations

Methods

People

All information entered in this section will be made public once the data package is published.

Contact

Person who should be listed as the contact for the data package for the purposes of the DOI or for users seeking further information for the data. Only one contact is allowed per data package. If none are entered, you will be set as the contact for this document.

[Move Up](#) [Move Down](#) [...](#)

All information entered in this section will be made public once the data package is published.

By submitting your dataset, you agree to the [ESS-DIVE terms of use](#). [Submit Dataset](#)



Review and Edit
datasets with registered
team members

Dataset Sharing Permission Types

Viewer

- **view** private datasets

Editor

- **view** private datasets
- **edit** metadata
- **add/remove** files
- **publish** datasets

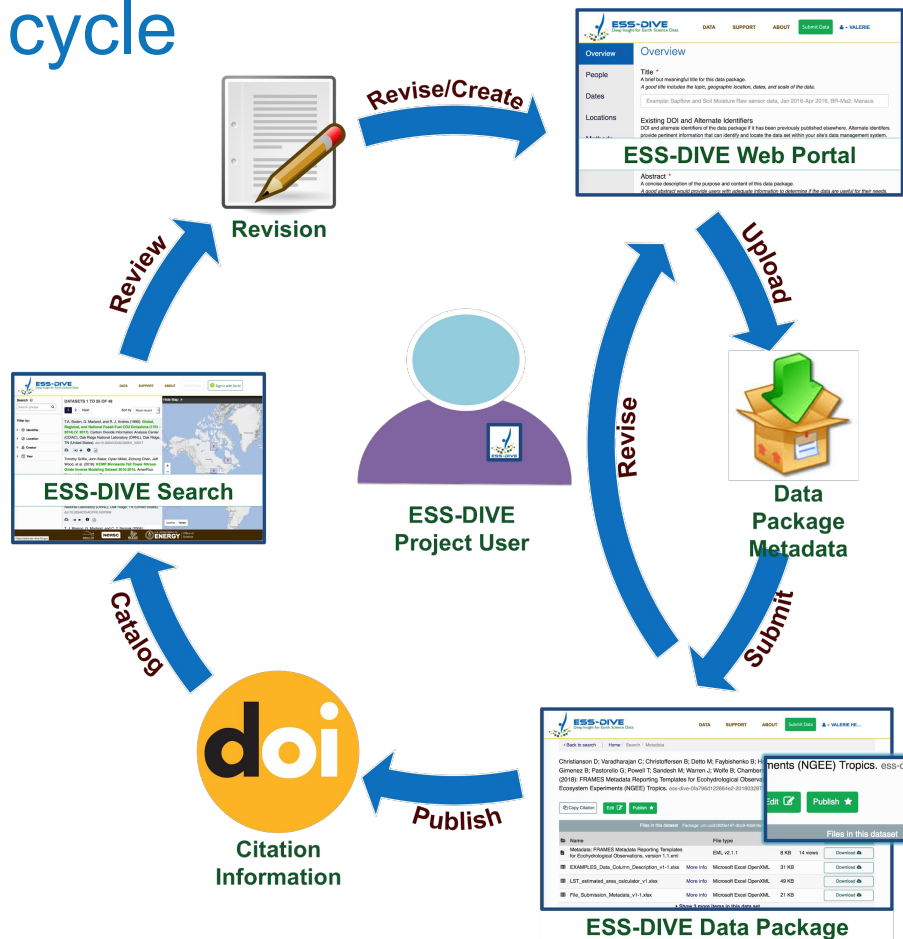
Manager

- **view** private datasets
- **edit** metadata
- **add/remove** files
- **publish** datasets
- **share** datasets with others

Questions?

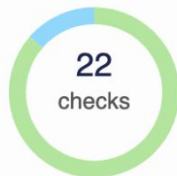
DATA PUBLICATION PROCESS

Publication cycle



Viewing your assessment report

After running your metadata against our standard set of metadata, data, and congruency checks, we have found the following potential issues. Please assist us in improving the discoverability and reusability of your research data by addressing the issues below.



Findable: 100% complete



Accessible: 100% complete



Reusable: 100% complete



Interoperable: 100% complete

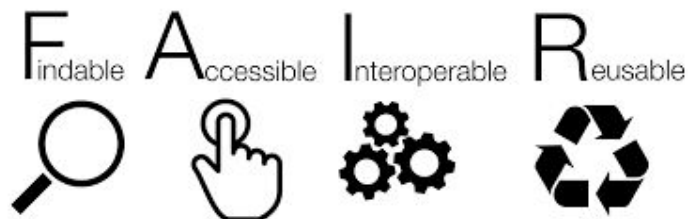


▶ Passed 19 checks out of 19 (informational checks not included).

▶ Warning for 0 checks.

▼ Failed 0 checks.

▶ 3 informational checks.



Viewing your assessment report



▼ Passed 19 checks out of 19 (informational checks not included).

✓	The DOE project name was found in the controlled list of ESS projects.	?	Findable	OPTIONAL	SUCCESS
✓	The one URL found in the metadata resolves correctly.	?	Findable	REQUIRED	SUCCESS
✓	The funding organization "U.S. DOE > Office of Science > Biological and Environmental Research (BER)" was found in the metadata.	?	Findable	OPTIONAL	SUCCESS
✓	The metadata identifier 'ess-dive-b5e2aede2d0f0ef-20220520T180415182358' was found and is resolvable using the DataONE resolve service, but is not publicly readable	?	Accessible	OPTIONAL	SUCCESS
✓	No proprietary data formats found (out of 3 total formats).	?	Reusable	OPTIONAL	SUCCESS
✓	3 creators are present.	?	Findable	REQUIRED	SUCCESS
✓	One contact is present.	?	Findable	REQUIRED	SUCCESS
✓	Found a contact user identifier that contains an ORCID: 'https://orcid.org/0000-0001-9262-7430'	?	Findable	REQUIRED	SUCCESS

Selecting “Publish”

Robles E (2022): Beginner's Tutorial Test Submission. Next-Generation Ecosystem Experiments (NGEE) Tropics, ESS-DIVE repository. Dataset. [ess-dive-e4695e86c73c2fe-20220523T191519546](https://data-sandbox.ess-dive.lbl.gov/datasets/ess-dive-e4695e86c73c2fe-20220523T191519546) accessed via <https://data-sandbox.ess-dive.lbl.gov/datasets/ess-dive-e4695e86c73c2fe-20220523T191519546> on 2022-05-23











Copy Citation

Edit

Publish ★

Files in this dataset Package: [ess-dive-034ca72b0046ae3-20220523T191519535](#)

				Download All 
 Name		File type	Size	
 Metadata: Beginner_s_Tutorial_Test.xml		EML v2.2.0	2 KB	Download 
 BeginnerTutorialFile2.pdf	More info	PDF	16 KB	Download 
 BeginnerTutorialFile1.rtf	More info	Rich Text Format (RTF)	430 B	Download 

Your publication request has been received. An ESS-DIVE admin will check the submission and contact you through the email address in your profile. Note that the publication status will not prevent you from editing your data package. The data package will not be published until you respond to our email and address all issues regarding your submission.

What happens after you click *Publish*?

- **QUEUE** - Your publication request will enter the ESS-DIVE support queue.
- **CONFIRM** - ESS-DIVE support team will email you to confirm that your request has been received.
- **REVIEW** - ESS-DIVE support team will review your data package and email you with revision requests if necessary.
- **PUBLISH** - Once the data package has been reviewed it will be assigned a DOI and shared publicly.



What happens after you click *Publish*?

CONFIRM

You will receive an email from the ESS-DIVE support team confirming your request.

Hello,

We have received your request to Publish "Air temperature and relative humidity raw data from June 2017-Oct 2018 at the B34 tower in Manaus, Brazil" and will notify you when we have fully reviewed your data set. Note that the publication status will not prevent you from editing your data package.

Your data package will be published with an existing DOI, if you supplied one. Otherwise, a new DOI will be issued through the ESS-DIVE system.

If you did not want to request that your data be published, please reply to this e-mail and we will stop the publication process.

Thanks,

The ESS-DIVE Support Team

What happens after you click *Publish*?

REVIEW

After an initial review, a revision request may be sent over email.

Revision requests must be resolved before publication.

Hello,

We have finished reviewing your data package and request the following improvements to your metadata before publication:

1. Revise your abstract to include a clear and concise description of the contents of your data package. Describe the file types in your data package and any software needed to utilize them, if applicable. Also, include definitions of any acronyms used so your abstract can be understood by anyone and add a statement about the purpose for why these data were generated and the research question it is intended to answer.

Note that once the data package is published, it will be publicly available for search and download. The publication action cannot be undone, however, you will still be able to edit or retire the data package. As the dataset contact, you are responsible for obtaining consent for publication from the data package authors and notifying them about its status. **Please respond to this message once you are finished making these revisions so that we can continue the approval process.**

Thank you,

The ESS-DIVE Support Team

What happens after you click *Publish*?

PUBLISH

You will receive an email from the ESS-DIVE support team confirming published dataset.

Hello,

Your data package has been published. Go to <https://data.ess-dive.lbl.gov/datasets/doi:10.15485/1868939> to view.

Here is the citation with the DOI:

Newcomer M ; Rosemary C ; Williams K (2022): Machine Learning Assisted Gap-Filled Discharge Data for the East River Community Watershed, Colorado, for Water Years 2014-2021. Watershed Function SFA, ESS-DIVE repository. Dataset.
doi:10.15485/1868939 accessed via <https://data.ess-dive.lbl.gov/datasets/doi:10.15485/1868939> on 2022-05-20

You may make minor edits and corrections to the data package metadata and files. Any edits you submit now will be immediately made public on ESS-DIVE. For major revisions to a data package, you must create a new data package by clicking the "Submit Data" button.

Contact the ESS-DIVE Support Team ess-dive-support@lbl.gov if you need further information.

Summary of publication

Request Publication



01

Review your dataset's
Automated Assessment Report.

Request publication.

Receive **confirmation email**
from ESS-DIVE team.

Review and Revise



02

Address revision request
email from ESS-DIVE

**If no revisions are needed,
your dataset will be
published.**

Revise based on
recommendations and
respond once finished.

Dataset Published



03

You will receive a final
confirmation message with
your dataset DOI and
citation.

Your dataset is now publicly
available on
data.ess-dive.lbl.gov

Revise at any time.

Questions?

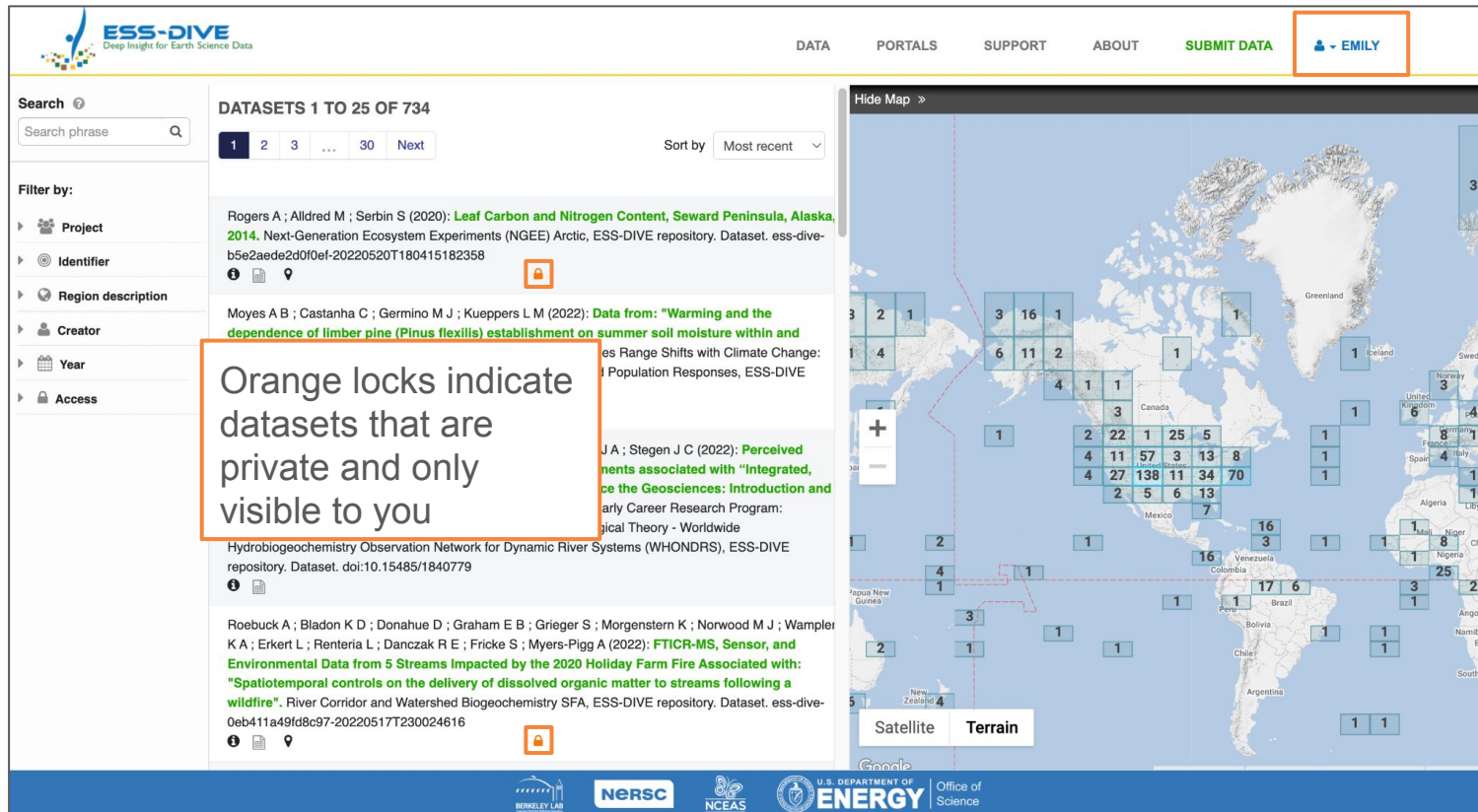
HANDS-ON:

Search for and download ESS-DIVE datasets

Switch to the main ESS-DIVE search page

<https://data.ess-dive.lbl.gov>

Main search page





The screenshot shows the ESS-DIVE main search page. At the top, the ESS-DIVE logo is on the left, and navigation links (DATA, PORTALS, SUPPORT, ABOUT, SUBMIT DATA) are in the center. On the right, a user profile for 'EMILY' is highlighted with an orange box. Below the navigation bar, the page is divided into three main sections. On the left is a search sidebar with a search bar and filter options (Project, Identifier, Region description, Creator, Year, Access). The middle section displays a list of datasets, with the first two highlighted by orange boxes. The first dataset is 'Leaf Carbon and Nitrogen Content, Seward Peninsula, Alaska, 2014' by Rogers A.; Alldred M.; Serbin S. (2020). The second dataset is 'Data from: "Warming and the dependence of limber pine (Pinus flexilis) establishment on summer soil moisture within and around the tree"' by Moyes A.B.; Castanha C.; Germino M.J.; Kueppers L.M. (2022). Both dataset entries have an orange lock icon next to them. A text box with an orange border and the text 'Orange locks indicate datasets that are private and only visible to you' is overlaid on the second dataset entry. The right section features a world map with a grid of numbers indicating dataset locations. At the bottom, there is a footer with logos for BERKELEY LAB, NERSC, NCEAS, and the U.S. DEPARTMENT OF ENERGY Office of Science.

ESS-DIVE
Deep Insight for Earth Science Data

DATA PORTALS SUPPORT ABOUT SUBMIT DATA

EMILY

Search 

Search phrase 


Filter by:


- Project
- Identifier
- Region description
- Creator
- Year
- Access

DATASETS 1 TO 25 OF 734


1 2 3 ... 30 Next


Sort by Most recent


Rogers A.; Alldred M.; Serbin S. (2020): **Leaf Carbon and Nitrogen Content, Seward Peninsula, Alaska, 2014**. Next-Generation Ecosystem Experiments (NGEE) Arctic, ESS-DIVE repository. Dataset. ess-dive-b5e2aede2d0f0ef-20220520T180415182358 

Moyes A.B.; Castanha C.; Germino M.J.; Kueppers L.M. (2022): **Data from: "Warming and the dependence of limber pine (*Pinus flexilis*) establishment on summer soil moisture within and around the tree"**. *Population Responses, ESS-DIVE* 

J.A.; Stegen J.C. (2022): **Perceived climate change associated with "Integrated, the Geosciences: Introduction and Early Career Research Program: Biological Theory - Worldwide**

Hydrobiogeochemistry Observation Network for Dynamic River Systems (WHONDRS), ESS-DIVE repository. Dataset. doi:10.15485/1840779 

Roebuck A.; Bladon K.D.; Donahue D.; Graham E.B.; Grieger S.; Morgenstern K.; Norwood M.J.; Wampler K.A.; Erkert L.; Renteria L.; Danczak R.E.; Fricke S.; Myers-Pigg A. (2022): **FTICR-MS, Sensor, and Environmental Data from 5 Streams Impacted by the 2020 Holiday Farm Fire Associated with a wildfire**. River Corridor and Watershed Biogeochemistry SFA, ESS-DIVE repository. Dataset. ess-dive-0eb411a49fd8c97-20220517T230024616 

Hide Map 

Satellite Terrain

Main search page



Hover to preview abstract

ma A R ; Willard J D ; Hendrix V C ; Christianson D S ; Lubich M ; Varadharajan C
for 'Stream Temperature Predictions for River Basin Management in the Pacific
Northwest and Mid-Atlantic Regions Using Machine Learning', Water 2022. iNAIADS, ESS-DIVE
repository. Dataset. doi:10.15485/1854257



2



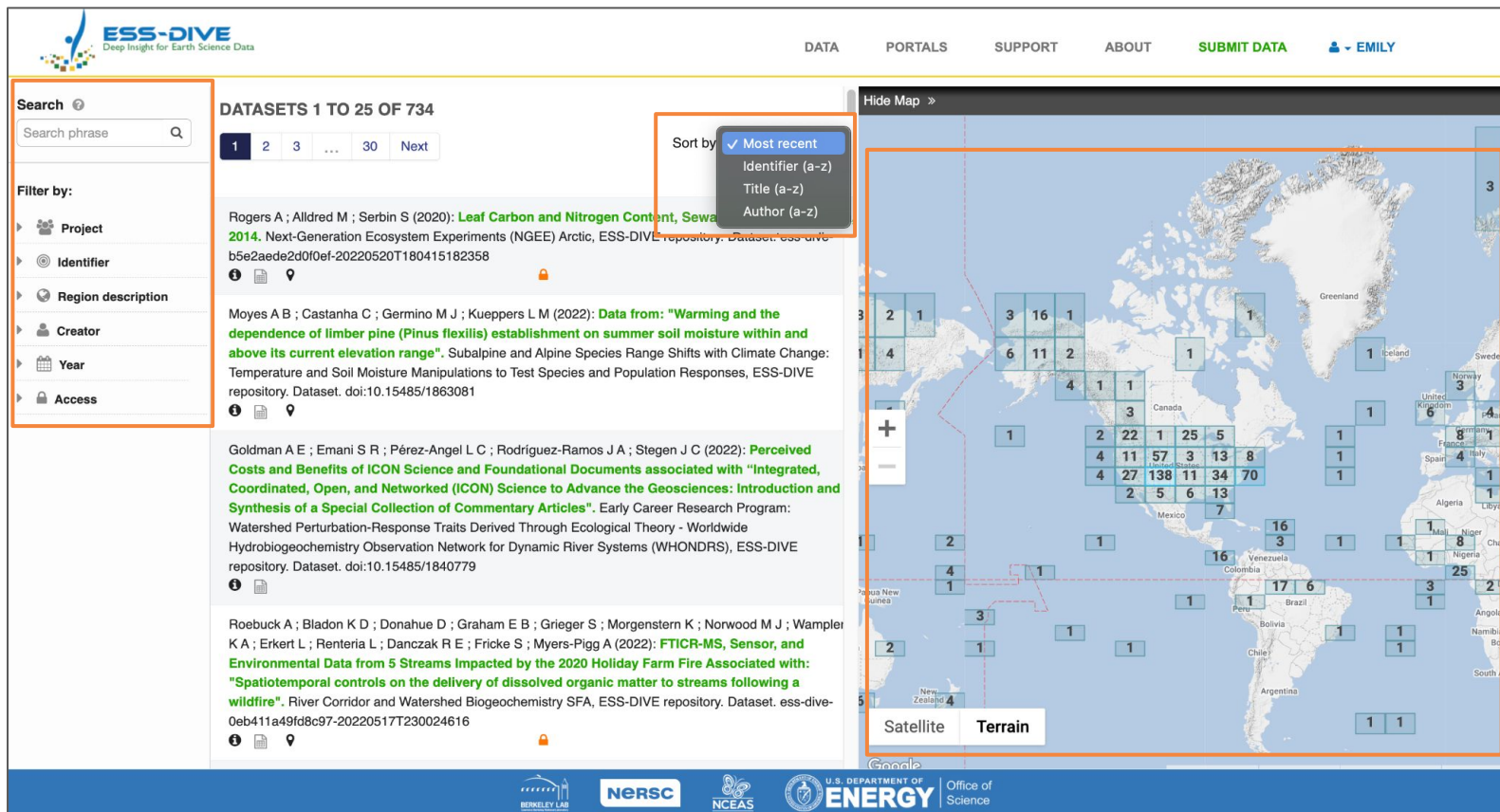
169

Download and view count

Hover to see
number of data
files

Hover to highlight
geographic location
on map


Search and filter options




The screenshot displays the ESS-DIVE website interface. The top navigation bar includes links for DATA, PORTALS, SUPPORT, ABOUT, and a green SUBMIT DATA button, along with a user profile for EMILY. The left sidebar contains a search bar and filter options: Project, Identifier, Region description, Creator, Year, and Access. The main content area shows a list of datasets, with the first three visible. A 'Sort by' dropdown menu is open, showing options: Most recent (selected), Identifier (a-z), Title (a-z), and Author (a-z). The right side of the page features a world map with numbered data points and a 'Hide Map' button. The bottom of the page has a blue footer with logos for BERKELEY LAB, NERSC, NCEAS, and the U.S. DEPARTMENT OF ENERGY Office of Science.

ESS-DIVE
Deep Insight for Earth Science Data

DATA PORTALS SUPPORT ABOUT SUBMIT DATA EMILY

Search 


Search phrase 

Filter by:

- Project
- Identifier
- Region description
- Creator
- Year
- Access

DATASETS 1 TO 25 OF 734

1 2 3 ... 30 Next

Sort by 


- Most recent
- Identifier (a-z)
- Title (a-z)
- Author (a-z)

Rogers A ; Allred M ; Serbin S (2020): **Leaf Carbon and Nitrogen Content, Sewage Treatment, and Ecosystem Function**. Next-Generation Ecosystem Experiments (NGEE) Arctic, ESS-DIVE repository. Dataset. doi:10.15485/186358

Moyes A B ; Castanha C ; Germino M J ; Kueppers L M (2022): **Data from: "Warming and the dependence of limber pine (*Pinus flexilis*) establishment on summer soil moisture within and above its current elevation range".** Subalpine and Alpine Species Range Shifts with Climate Change: Temperature and Soil Moisture Manipulations to Test Species and Population Responses, ESS-DIVE repository. Dataset. doi:10.15485/1863081


Goldman A E ; Emani S R ; Pérez-Angel L C ; Rodríguez-Ramos J A ; Stegen J C (2022): **Perceived Costs and Benefits of ICON Science and Foundational Documents associated with "Integrated, Coordinated, Open, and Networked (ICON) Science to Advance the Geosciences: Introduction and Synthesis of a Special Collection of Commentary Articles".** Early Career Research Program: Watershed Perturbation-Response Traits Derived Through Ecological Theory - Worldwide Hydrobiogeochemistry Observation Network for Dynamic River Systems (WHONDORS), ESS-DIVE repository. Dataset. doi:10.15485/1840779


Roebuck A ; Bladon K D ; Donahue D ; Graham E B ; Grieger S ; Morgenstern K ; Norwood M J ; Wampler K A ; Erkert L ; Renteria L ; Danczak R E ; Fricke S ; Myers-Pigg A (2022): **FTICR-MS, Sensor, and Environmental Data from 5 Streams Impacted by the 2020 Holiday Farm Fire Associated with: "Spatiotemporal controls on the delivery of dissolved organic matter to streams following a wildfire".** River Corridor and Watershed Biogeochemistry SFA, ESS-DIVE repository. Dataset. doi:10.15485/1840779

Hide Map 



Satellite Terrain


Search and filter options



Search 






Filter by:


  **Project**





  **Identifier**






  **Region description**





  **Creator**



  **Year**



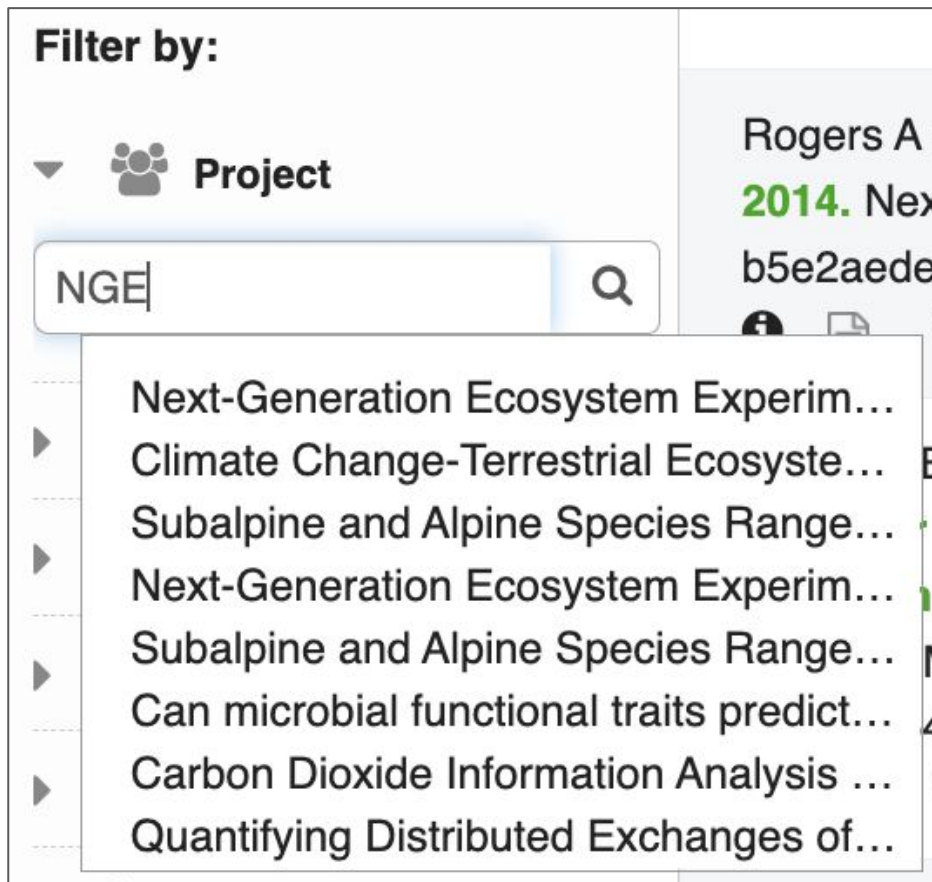
☐ Data coverage 

☐ Publish year 

  **Access**


☐ Private datasets only


Search and filter options





Project filter gives options from controlled list as you type







Search and filter options



DATA PORTALS SUPPORT ABOUT **SUBMIT DATA**  EMILY

Search 
 

Filter by:

-  Project
-  Identifier
-  Region description
-  Creator
-  Year
-  Access

DATASETS 1 TO 25 OF 734

1 2 3 ... 30 Next

Sort by Most recent

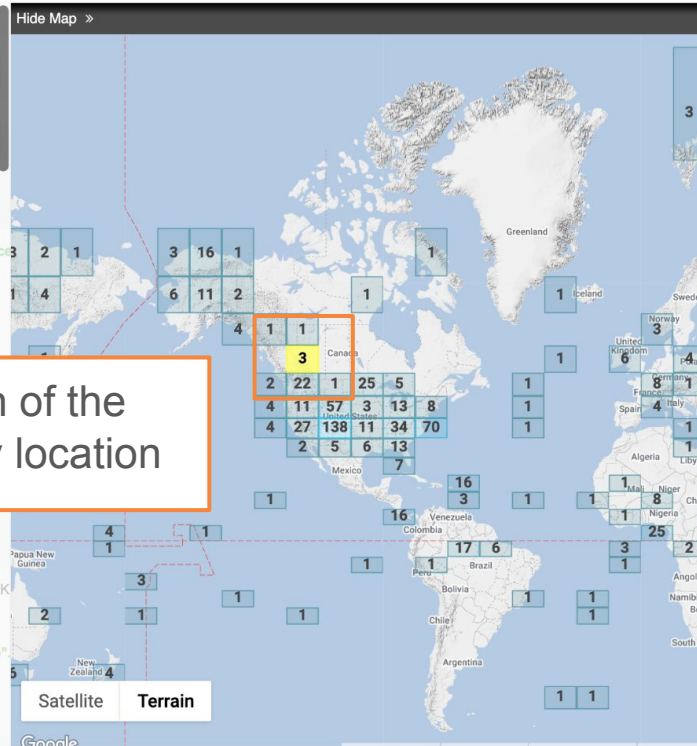
Rogers A ; Alldred M ; Serbin S (2020): **Leaf Carbon and Nitrogen Content, Seward Peninsula, Alaska 2014**. Next-Generation Ecosystem Experiments (NGEE) Arctic, ESS-DIVE repository. Dataset. ess-dive-b5e2aede2d0f0ef-20220520T180415182358

Moyes A B ; Castanha C ; Germino M J ; Kueppers L M (2022): **Data from: "Warming and the dependence of limber pine (*Pinus flexilis*) establishment on summer soil moisture within and above its current elevation range"**. Subalpine and Alpine Species Range Shifts with Climate Change: Temperature and Soil Moisture Manipulations to Test Species and Population Responses, ESS-DIVE repository. Dataset. doi:10.15485/1863081

Goldman A E ; Emani S R ; Pérez-Angel L C ; Rodríguez-R... **and Benefits of ICON Science and Foundational Document Coordinated, Open, and Networked (ICON) Science to A Synthesis of a Special Collection of Commentary Article** Perturbation-Response Traits Derived Through Ecological T Observation Network for Dynamic River Systems (WHOND... doi:10.15485/1840779





Roebuck A ; Bladon K D ; Donahue D ; Graham E B ; Grieger S ; Morgenstern K ; Norwood M J ; Wampler K... A ; Erkert L ; Renteria L ; Danczak R E ; Fricke S ; Myers-Pigg A (2022): **FTICR-MS, Sensor, and Environmental Data from 5 Streams Impacted by the 2020 Holiday Farm Fire Associated with: "Spatiotemporal controls on the delivery of dissolved organic matter to streams following a wildfire"** River Corridor and Watershed Biogeochemistry SFA, ESS-DIVE repository. Dataset. ess-dive-0eb411a49fd8c97-20220517T230024616

Hide Map >

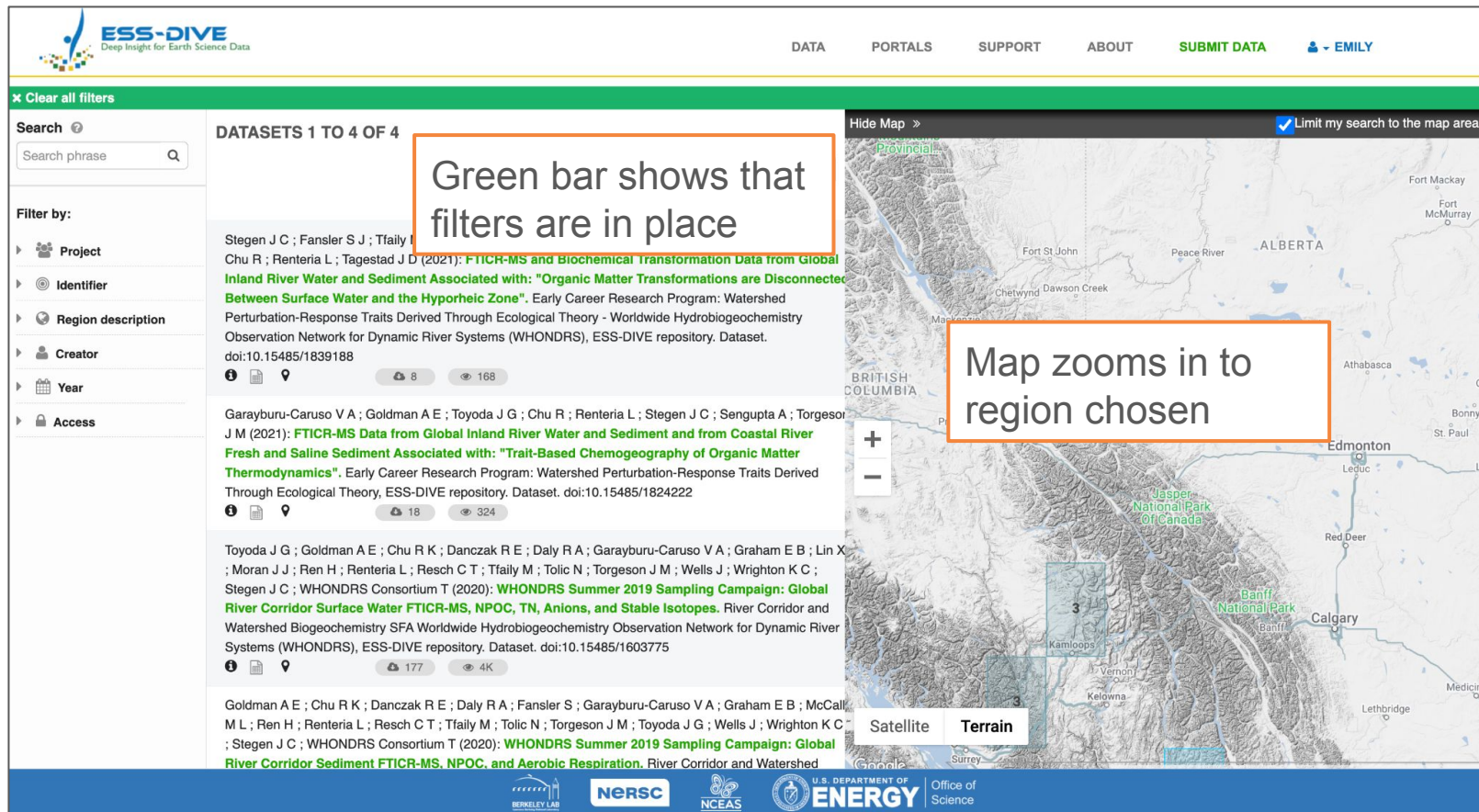


Satellite Terrain

Select a region of the map to filter by location

**U.S. DEPARTMENT OF ENERGY** Office of Science

Search and filter options



The screenshot displays the ESS-DIVE website interface. At the top, the ESS-DIVE logo is on the left, and navigation links (DATA, PORTALS, SUPPORT, ABOUT, SUBMIT DATA, and a user profile for EMILY) are on the right. A green bar at the top left contains a 'Clear all filters' button. Below this, a search bar is labeled 'Search' with a magnifying glass icon. To the left of the main content area is a 'Filter by:' sidebar with expandable categories: Project, Identifier, Region description, Creator, Year, and Access. The main content area is titled 'DATASETS 1 TO 4 OF 4' and lists four dataset entries. Each entry includes the authors, title, description, and a green bar highlighting the dataset title. The first dataset is by Stegen J C ; Fansler S J ; Tfaily M ; Chu R ; Renteria L ; Tagestad J D (2021): FTICR-MS and Biochemical Transformation Data from Global Inland River Water and Sediment Associated with: "Organic Matter Transformations are Disconnected Between Surface Water and the Hyporheic Zone". The second dataset is by Garayburu-Caruso V A ; Goldman A E ; Toyoda J G ; Chu R ; Renteria L ; Stegen J C ; Sengupta A ; Torgeson J M (2021): FTICR-MS Data from Global Inland River Water and Sediment and from Coastal River Fresh and Saline Sediment Associated with: "Trait-Based Chemogeography of Organic Matter Thermodynamics". The third dataset is by Toyoda J G ; Goldman A E ; Chu R K ; Danczak R E ; Daly R A ; Garayburu-Caruso V A ; Graham E B ; Lin X ; Moran J J ; Ren H ; Renteria L ; Resch C T ; Tfaily M ; Tolic N ; Torgeson J M ; Wells J ; Wrighton K C ; Stegen J C ; WHONDRS Consortium T (2020): WHONDRS Summer 2019 Sampling Campaign: Global River Corridor Surface Water FTICR-MS, NPOC, TN, Anions, and Stable Isotopes. The fourth dataset is by Goldman A E ; Chu R K ; Danczak R E ; Daly R A ; Fansler S ; Garayburu-Caruso V A ; Graham E B ; McCall M L ; Ren H ; Renteria L ; Resch C T ; Tfaily M ; Tolic N ; Torgeson J M ; Toyoda J G ; Wells J ; Wrighton K C ; Stegen J C ; WHONDRS Consortium T (2020): WHONDRS Summer 2019 Sampling Campaign: Global River Corridor Sediment FTICR-MS, NPOC, and Aerobic Respiration. To the right of the dataset list is a map of Western Canada, showing Alberta and British Columbia. The map is zoomed in to the region around Kamloops and Vernon. A green bar at the top right of the map area contains a 'Limit my search to the map area' checkbox, which is checked. Two orange boxes with text are overlaid on the image: one pointing to the green bar at the top left of the dataset list, and another pointing to the map area.







Green bar shows that filters are in place

Map zooms in to region chosen

Search and filter options

Search ?

Filter by:

- ▶  **Project**
- ▶  **Identifier**
- ▶  **Region description**
- ▶  **Creator**
- ▶  **Year**
- ▶  **Access**









Clear all filters

Search ?

My Search

fossil fuels x




Filter by:

- ▶  **Project**
- ▶  **Identifier**
- ▶  **Region description**
- ▶  **Creator**
- ▶  **Year**
- ▶  **Access**




DATASETS 1 TO 6 OF 6

Sort by **Most recent** ▼




Bender M L ; Battle M ; Keeling R (1998): **The O2 Balance of the Atmosphere: A Tool for Studying the Fate of Fossil-Fuel CO2**. CDIAC, ESS-DIVE repository. Dataset. doi:10.15485/1464236

   103




Granier C (2004): **Global Emissions Inventory Activity**. CDIAC, ESS-DIVE repository. Dataset. doi:10.15485/1464237

   312




Keeling R F ; Piper S C ; Bollenbacher A F ; Walker J S (2009): **Atmospheric Carbon Dioxide Record from Mauna Loa**. CDIAC, ESS-DIVE repository. Dataset. doi:10.3334/CDIAC/ATG.035

   285

ORNL E S D (2007): **Preliminary 2006-2007 Global and National Estimates by Extrapolation**. CDIAC, ESS-DIVE repository. Dataset. doi:10.3334/CDIAC/FFE.005

   11

Boden T ; Marland G ; Andres R J (1999): **Global, Regional, and National Fossil-Fuel CO2 Emissions (1751 - 2014) (V. 2017)**. Carbon Dioxide Information Analysis Center (CDIAC), Oak Ridge National Laboratory (ORNL), Oak Ridge, TN (United States), ESS-DIVE repository. Dataset. doi:10.3334/CDIAC/00001_V2017

   8K

Marland G (2009): **The Increasing Concentrations of Atmospheric CO2: How Much, When and**

Search and filter options


✕ Clear all filters




Search ?

My Search

QA/QC ✕

Project: Watershed ✕
Function SFA


Filter by:
▼  **Project**

▶  **Identifier**
▶  **Region description**
▶  **Creator**

Clear filters individually or
by selecting the green
“Clear all filters” banner

Downloading data files





DATAPORTALSSUPPORTABOUTSUBMIT DATAEMILY

< Back to search | Home / Search / Metadata

Moyes A B ; Castanha C ; Germino M J ; Kueppers L M (2022): Data from: "Warming and the dependence of limber pine (*Pinus flexilis*) establishment on summer soil moisture within and above its current elevation range". Subalpine and Alpine Species Range Shifts with Climate Change: Temperature and Soil Moisture Manipulations to Test Species and Population Responses, ESS-DIVE repository. Dataset. doi:10.15485/1863081 accessed via <https://data.ess-dive.lbl.gov/datasets/doi:10.15485/1863081> on 2022-05-24

Downloads20

Citations0

Views147

Copy Citation

Assessment report

Edit

Files in this dataset

Name	
Metadata: Data_from_Warming_and_the_dependence_of_limber.xml	
Moyes_et_al_2013_Data_Users_Guide.pdf	
USA_met_Moyes_et_al_2013.csv	1 download
USA_means_2010_Moyes2013.csv	1 download
LSA_met_Moyes_et_al_2013.csv	1 download

You do NOT need to be logged in to download data files individually.

You DO need to be logged in to select "Download All"

Download All

Download

Download

Download

Download

Download

Summary

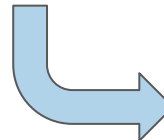
- Filter capabilities allow you to easily find datasets related to a specific project, time period, geographical location, and more
- Multiple filters can be used at the same time
- Abstract previews, data file counts, geographical location, and view and download statistics are available in the dataset list
- Data files can be downloaded from the dataset landing page - you do NOT need to be logged in to download individual files

REGISTER AS A DATA CONTRIBUTOR

Register as a data contributor



Sign in to the [main portal](#) using your ORCiD.




Sign in


example@email.com or 0000-0001-2345-6789


[SIGN IN](#)

Forgot your password or ORCID ID?
Don't have an ORCID ID yet? [Register now](#)

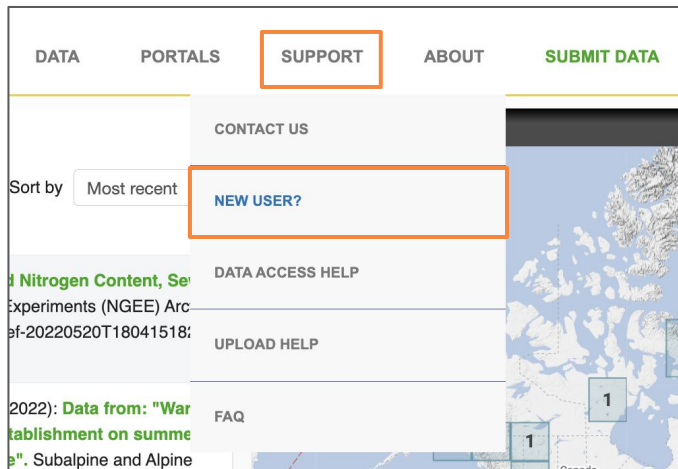
or


 [Access through your institution](#)

 [Sign in with Google](#)

 [Sign in with Facebook](#)

Register as a data contributor





ESS-DIVE
Deep Insight for Earth Science Data

ESS-DIVE New Data Contributor Registration

ESS-DIVE is primarily intended to host DOE-sponsored environmental research data. Hence we require all data contributors to specify their affiliation with DOE projects, and agree to our terms of use.

If you are not associated with a DOE project and want to store your project data on ESS-DIVE, please fill out the New Project Data Storage form: <https://bit.ly/ess-dive-new-project>. If you have any questions about our terms for storage, contact ess-dive-support@lbl.gov.

emilyarobles@lbl.gov [Switch account](#)

* Required

Email *

Your email

New User will bring you to the New Contributor Registration documentation with the [registration form](#).



Complete the form and wait for an email response with instructions to proceed.

Tools and support for dataset creation



Help Documentation

Refer to [ESS-DIVE's website](#) and [Gitbooks](#) for detailed information on dataset requirements.



Metadata Guide and Offline Template

Review our complete [Metadata Guidelines](#).

Collaborate on metadata with co-authors using an [offline template](#) before working on ESS-DIVE.



Sandbox Testing Server

Practice uploading data packages to our [sandbox test server](#), which does not permanently save data.



Support Email Service

Feel free to **contact the ESS-DIVE support team** with questions!

ess-dive-support@lbl.gov
ess-dive.lbl.gov/contact/

Complete instructions are in our documentation



A screenshot of the ESS-DIVE Docs website. The page has a light gray background with a white sidebar on the left. The sidebar contains a list of navigation links: "Data Submission Tutorials" (with a dropdown arrow), "Package Service Tutorial" (with a green checkmark), "R Example", "Python Example", "Java Example", "API Updates and Changes", "Package Level Metadata Guide", "Data Reporting Formats", "Sharing Data" (with a right arrow), "Link to External Data Sources", "Register Dataset Citations", and "PORTALS" (with a right arrow). Below "PORTALS" are "Why Use Data Portals" and "Create a Portal", both with right arrows. The main content area has a green navigation bar at the top with links for "Home", "About", "Data Portal", and "Contact Us". Below this is a large "Welcome" heading, followed by a paragraph explaining the site's purpose. It then lists the "ESS-DIVE Main Data Portal" and "Help Desk" contact information. A "Preferred Browsers" section lists Chrome, Firefox, Safari, and a note about Internet Explorer. At the bottom, there are two boxes: "Searching & Accessing Data" and "Contributing Data", each with a small icon.

Sharing Data

docs.ess-dive.lbl.gov/contributing-data/sharing-data

Package Service API

docs.ess-dive.lbl.gov/contributing-data/data-submission-guidelines/package-service-tutorial

External Linking

docs.ess-dive.lbl.gov/contributing-data/link-to-external-data-sources

Portals

docs.ess-dive.lbl.gov/portals/why-use-data-portals

Questions?

Connect With Our Team!



To get help:

ess-dive.lbl.gov



ess-dive-support@lbl.gov

docs.ess-dive.lbl.gov

To stay updated:

ess-dive-community@lbl.gov



[@essdive](https://twitter.com/essdive)



Acknowledgements

Advisory Groups: ESS-DIVE Archive Partnership Board, ESS Cyberinfrastructure Working Groups

Funding: EESSD Data Management

ESS-DIVE Glossary

List of common ESS-DIVE terms (only include relevant terms):

- **DataONE** - The Data Observation Network for Earth (DataONE) is a distributed framework and sustainable cyberinfrastructure that provides open and secure access to Earth observational data. ESS-DIVE is a DataONE member.
- **DOE** - The U.S. Department of Energy (DOE) is a Cabinet-level department of the United States whose mission is to ensure America's security and prosperity by addressing its energy, environmental and nuclear challenges through transformative science and technology solutions.

ESS-DIVE Glossary (*cont.*)

- **DOI** - A Digital Object Identifier (DOI) is a unique alphanumeric string assigned by a registration agency (e.g., The Office of Scientific and Technical Information (OSTI)) to identify content and provide a persistent link to its location on the internet. ESS-DIVE assigns a DOI when your data package is published and made available electronically.
- **ESGF** - The Earth System Grid Federation (ESGF) is a collaboration that develops, deploys and maintains software infrastructure for the management, dissemination, and analysis of model output and observational data. It is an interagency and international effort led by the U.S. Department of Energy with various co-funding agencies.

ESS-DIVE Glossary (*cont.*)

- **ESS** - Environmental Systems Science (ESS) is a U.S. Department of Energy Office of Science program under the Biological and Environmental Research Program seeking to advance a robust predictive understanding of terrestrial surface and subsurface ecosystems.
- **ESS-DIVE** - Environmental System Science Data Infrastructure for a Virtual Ecosystem (ESS-DIVE) is a U.S. Department of Energy archive for earth and environmental science data, models and software generated from research on terrestrial and subsurface environments.

ESS-DIVE Glossary (*cont.*)



- **NCEAS** - The National Center for Ecological Analysis and Synthesis (NCEAS) at UC Santa Barbara partners with ESS-DIVE on data preservation. NCEAS is a DataONE member and a recognized expert in ecological data, digital libraries, and standards for data format.
- **NERSC** - The National Energy Research Supercomputing Center (NERSC) is the primary scientific computing facility for the Office of Science in the Department of Energy, and is the primary data storage center for ESS-DIVE.
- **ORCID** - The Open Researcher and Contributor Identifier provides anyone a persistent digital identifier (an ORCID iD) that distinguishes researchers from one another and provides a record that supports automatic links among all professional activities.

ESS-DIVE Glossary (*cont.*)



- **OSTI** - The Office of Scientific and Technical Information (OSTI), a unit of the U.S. Department of Energy Office of Science, partners with ESS-DIVE on providing Digital Object Identifiers and metadata enhancement for data packages submitted to ESS-DIVE.
- **Additional terms to consider defining:** KBase, EMSL, JGI GOLD, NMDC, Dynamic data citation, Data package, Metadata, API, Text file, Comma separated file, NetCDF file, FAIR, ID, ISGN, Data Repository, Digital Library, Project Space, Data Visibility, Data Usability, Data Accessibility, JIRA, GitHub, Community Funds, Large/Big Data, File-level metadata, Sample-level metadata, 'Scalability, Resilience, and Integration', User & Preservation Services, Community Engagement and Partnerships