



Dataset Badges and Publication Features

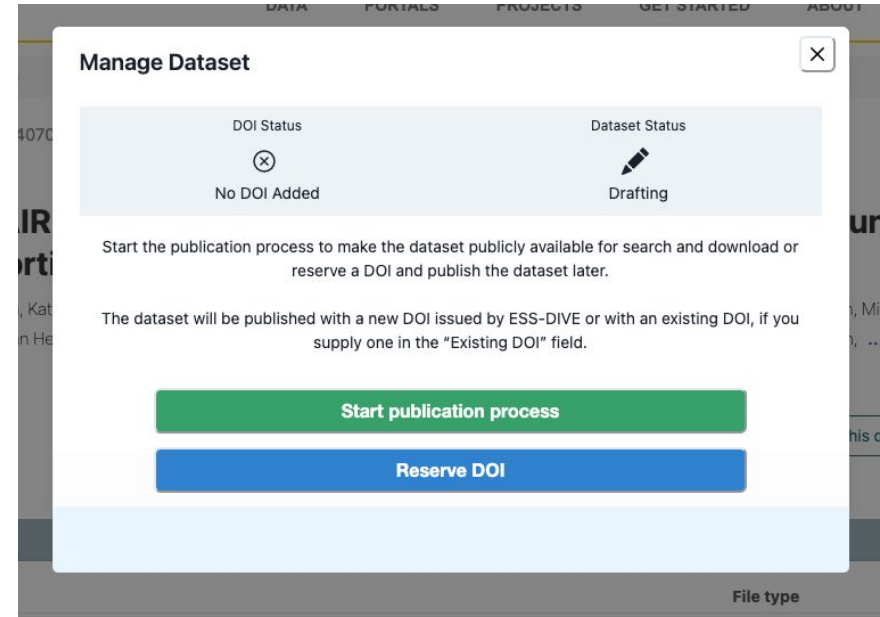
Fianna O'Brien

Computer Systems Engineer



Impact of New Publication Features

- Allow users greater visibility into dataset publication status
- Reduce delays in publication process by reducing back and forth with ESS-DIVE support team
- Provide users with greater autonomy, less reliance on ESS-DIVE staff

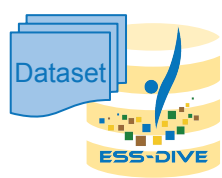


Summary of Webinar

- How datasets are published on ESS-DIVE
- Showcase new dataset publication interface and status badges
- Who has access to these new tools
- Documentation of new features

ESS-DIVE Publication Process

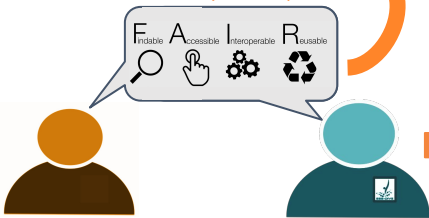
ESS-DIVE Data Publication Process



Submit Dataset



Finalize Submission
& check assessment re



Reviewer suggests changes

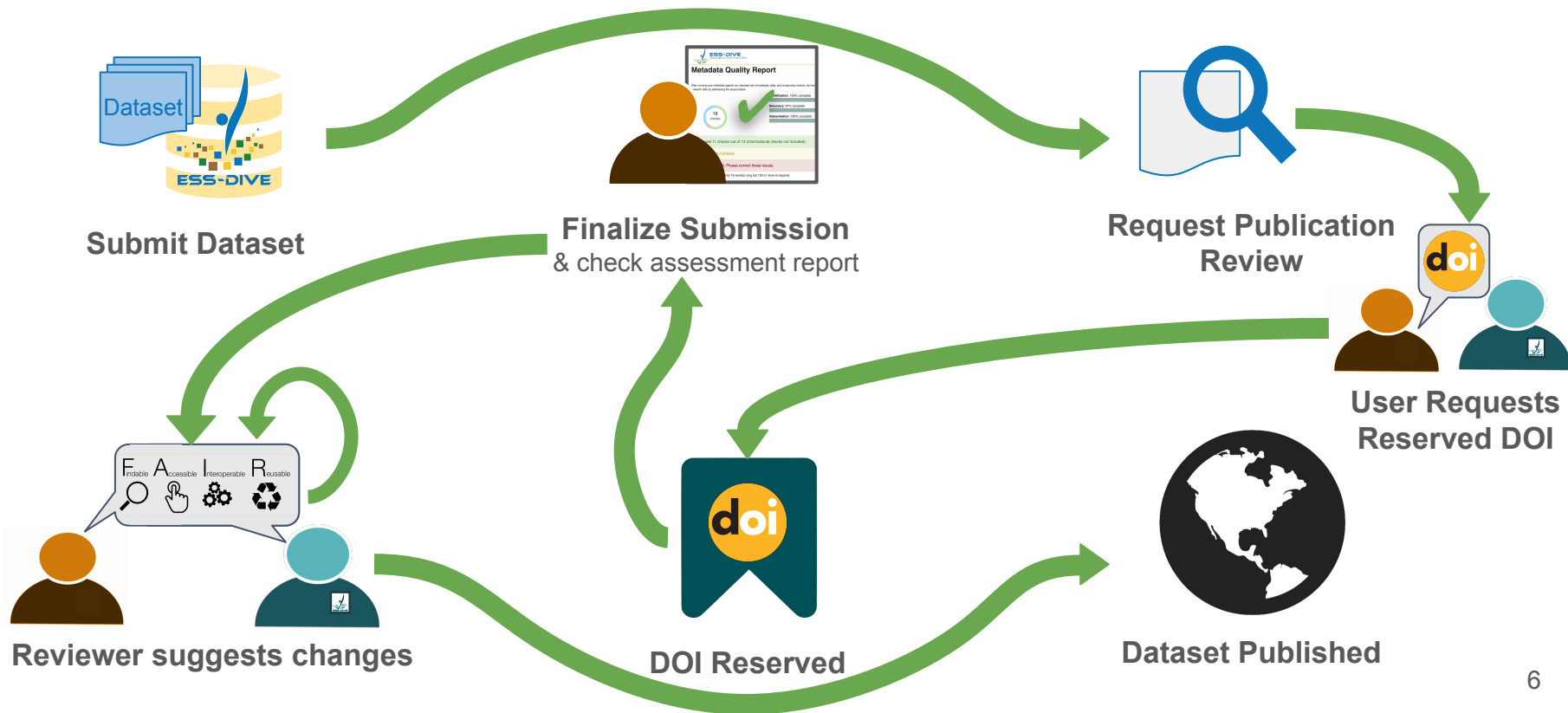


DOI Issued

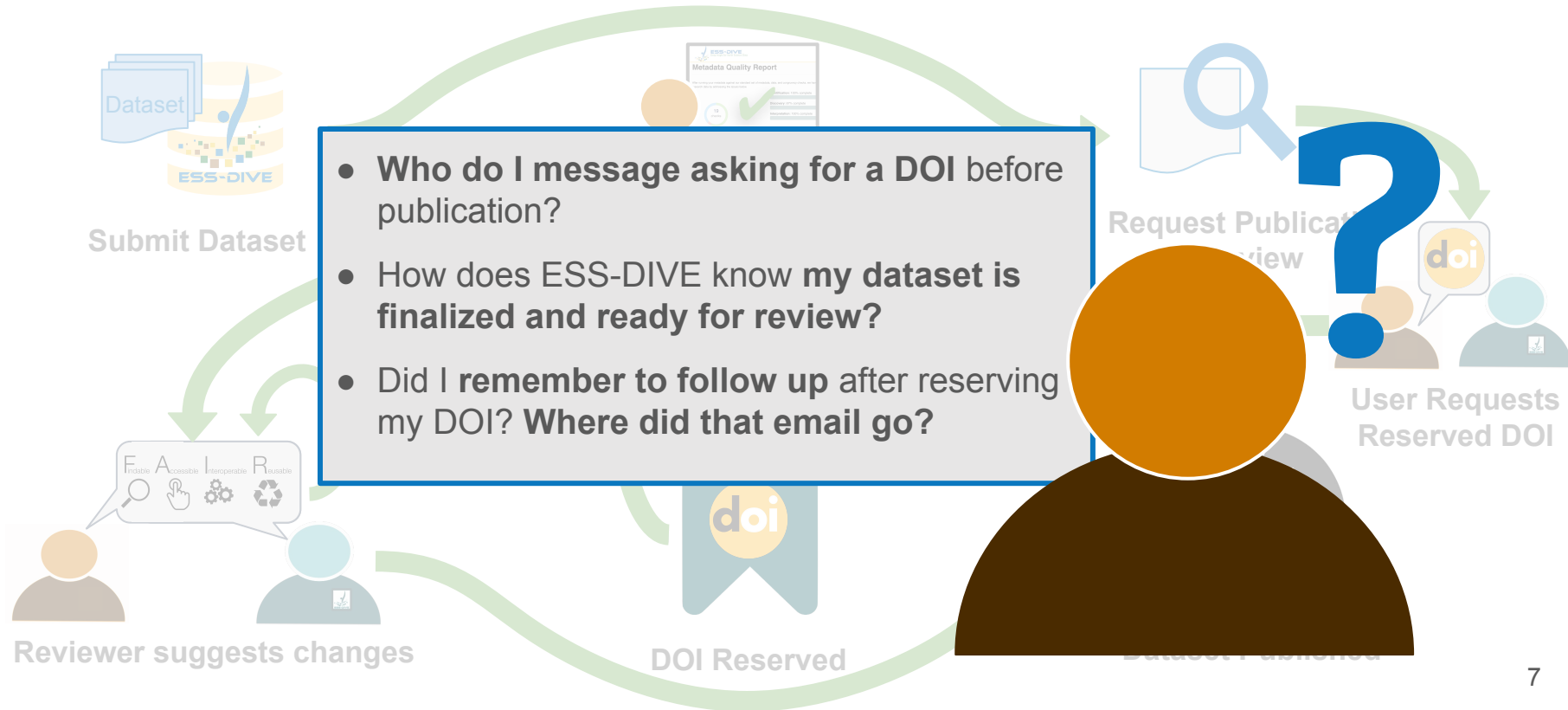
We can do that! ESS-DIVE issues “**Reserved DOIs**” which you can use to cite your dataset before publication. They are inactive until your dataset is reviewed and published.

with DOI

Old process for Reserving DOIs



Old process for Reserving DOIs



Have you published data with ESS-DIVE before? (select all that apply)

I have never published data on ESS-DIVE



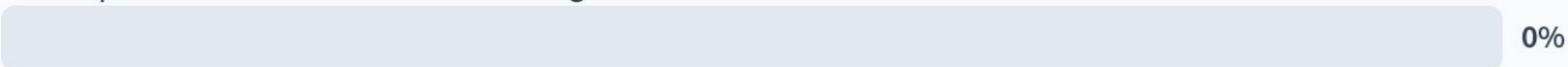
I have published data with ESS-DIVE & received a DOI upon publication



I have requested a DOI before publishing a dataset on ESS-DIVE



I have published a dataset with an existing DOI on ESS-DIVE



Publication Management Tools

Publication Management Tools



Our goal was to create a user interface to increase user agency in dataset publication and provide increased visibility into the ESS-DIVE publication process

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DATASET | [ess-dive-38b6c3922d72fe9-20240703T223245723](#)

Data from: "Enabling FAIR data in Earth and environmental science with community-centric (meta)data reporting formats"

Robert Crystal-Ornelas, Charuleka Varadharajan, Kathleen Beilsmith, Ben Bond-Lamberty, Kristin Boye, Madison Burrus, Shreyas Cholia, Danielle S Christianson, Michael Crow, Joan Damerow, Kim S Ely, Amy E Goldman, Susan Heinz, Valerie C Hendrix, Zarine Kakalia, Kayla Mathes, Fianna O'Brien, Dylan O'Ryan, Stephanie C Pennington, ... and Deb Agarwal [+ SHOW 7 MORE AUTHORS](#)

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 Name	File type	Size	Download All 
 Metadata: Data_from_Enabling_FAIR_data_in_Earth_and.xml	EML v2.2.0	22 KB	Download 
 File_10_hydrologic_monitoring_crosswalk.csv	More info text/csv	4 KB	Download 
 File_10_hydrologic_monitoring_crosswalk_dd.csv	More info text/csv	1 KB	Download 
 File_9_water_and_soil_chemistry_crosswalk.csv	More info text/csv	13 KB	Download 

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Data from: "Enabling FAIR-centric (meta)data reporti

Robert Crystal-Ornelas, Charuleka Varadharajan, Kat
Joan Damerow, Kim S Ely, Amy E Goldman, Susan He
Agarwal [+ SHOW 7 MORE AUTHORS](#)

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Drafting

Start the publication process to make the dataset publicly available for search and download or reserve a DOI and publish the dataset later.

The dataset will be published with an existing DOI, if you supply one, or else a new DOI will be issued through ESS-DIVE.

[Start publication process](#)

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- Request publication review
- Reserve dataset DOI before publication
- View ESS-DIVE Dataset status & Live DOI status

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Data from: "Enabling FAIR-centric (meta)data report

Robert Crystal-Ornelas, Charuleka Varadharajan, Kat Joan Damerow, Kim S Ely, Amy E Goldman, Susan He Agarwal [+ SHOW 7 MORE AUTHORS](#)



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Dataset Status






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 Name	File type	Size	Download All
 Metadata: Data_from_Enabling_FAIR_data_in_Earth_and.xml	EML v2.2.0	22 KB	Download
 File_10_hydrologic_monitoring_crosswalk.csv	More info text/csv	4 KB	Download
 File_10_hydrologic_monitoring_crosswalk_dd.csv	More info text/csv	1 KB	Download
 File_9_water_and_soil_chemistry_crosswalk.csv	More info text/csv	13 KB	Download

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File_10_hydrologic_monitoring_crosswalk.csv	4 KB	Download
File_10_hydrologic_monitoring_crosswalk_dd.csv	1 KB	Download
File_9_water_and_soil_chemistry_crosswalk.csv	13 KB	Download

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Publication Management



Publishing your dataset will make it publicly available for search and download.

By clicking "Request Publication", this dataset will be put into a publication review queue. ESS-DIVE will review the dataset and email any revision requests. The dataset will not be published until you address all requested revisions.

- I have reviewed the recommendations in the [Metadata Assessment Report](#).
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Publication Requested



Your dataset has been added to the queue for review











You will receive an automated confirmation email within 24 hours, followed by any revision requests from the ESS-DIVE Team. Contact ESS-DIVE support at ess-dive-support@lbl.gov if you haven't received a confirmation email in 24 hours.

Note: ESS-DIVE dataset review emails will be sent to your registered email address and the dataset contact.

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In Review

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DOI Status

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Dataset Status











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 issue_template_for_documentation_change.md	More info text/markdown	429 B	Download 
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Name
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issue_template_for_documentation_change
issue_template_for_all_other_changes.md
flmd.csv

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A reserved DOI is temporary and will not be publicly accessible until you complete the review and publication process.

You will need to return later and select "Start the Publication process" to initiate a publication request.

- I understand the reserved DOI will not function until the review is complete and the dataset is published.
- I will commit to completing the dataset review and publication process.

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[← Main Publication Panel](#)

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Name
Metadata: Templates_for_developing_and_v
issue_template_for_documentation_change
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fimd.csv

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doi:10.15485/1535479

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Crystal-Ornelas R; Varadharajan C; Bond-Lamberty B; Boye K; Burrus M; Cholia S; Crow M; Damerow J; Davarakonda R; Ely K S; Goldman A; Heinz S; Hendrix V; Kakalia Z; Pennington S; Robles E; Rogers A; Simmonds M; Velliquette T; Weierbach H; Weisenhorn P; Welch J N; Agarwal D A (2021): Templates for developing and versioning data standards and reporting formats using GitHub. Environmental Systems Science Data Infrastructure for a Virtual Ecosystem (ESS-DIVE). doi:10.15485/1535479

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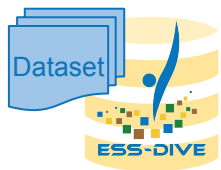
- Dataset DOI can be reserved at any time during the **publication processes** though reserving a **DOI is not required** for publication.
- **Reserved DOIs will not function** until the dataset has completed publication review and is published.

What are my options for publication?

Publication Options

- Publish with New DOI
 - You will receive a new DOI after **completing the publication review process**. This is the most common publication option.
- Reserve a New DOI before Publication
 - You need a **DOI before finalizing your data** and completing the review process and would like to reserve a DOI ASAP
- Publish with an Existing DOI
 - The dataset you've uploaded **already has a DOI associated** with it and you would like your data to be published with this DOI.

Publish with New DOI



Submit Dataset



Finalize Submission
& check assessment report

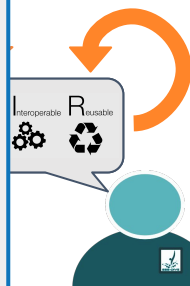


Request Publication Review
from Manage Dataset Panel



This is the standard method
for acquiring a DOI

The DOI will be accessible
upon publication and your
dataset will be readily
available for reviews



Suggests changes

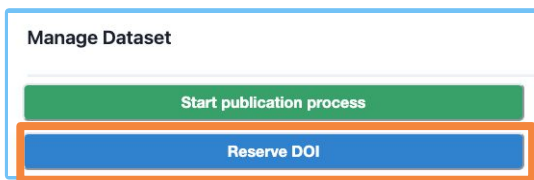


Dataset Published
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Reserve DOI before Publication



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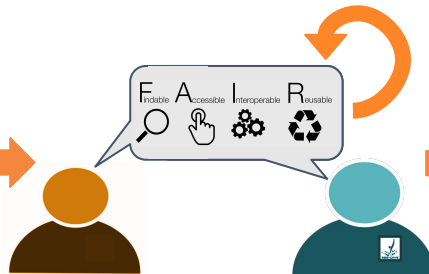
DOI Reserved



Finalize Submission
& check assessment report



Request Publication
Review



Reviewer suggests changes



Dataset Published
with Reserved DOI 27

Publish with Existing DOI

Dates	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. <i>Enter as many identifiers as needed below.</i>
Locations	
Methods	Example: http://dx.doi.org/10.15486/NGT/XXXXXX

Add DOI in "Existing DOI" metadata field



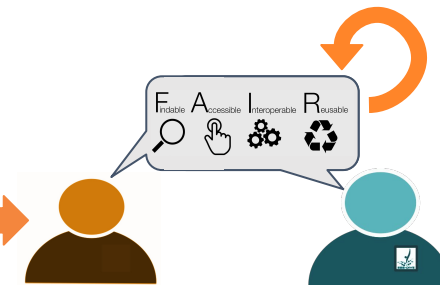
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Request Publication Review
from Manage Dataset Panel



Reviewer suggests changes



Dataset Published
with Existing DOI

Existing DOI and Alternate Identifiers Field

To prevent creation of duplicate DOIs for a single dataset, **reserving a DOI has been blocked for datasets with any alternate identifiers.**

Dates	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. <i>Enter as many identifiers as needed below.</i>
Locations	
Methods	

Example:

Alternate Identifier ⓘ

Start publication process

DOI reservation is not available

Dataset and DOI Status Badges

Dataset and DOI Status Badges

- **Status badges capture current state of dataset's publication status**
- Dataset status – Where dataset is in the ESS-DIVE publication process



Drafting



Review



Published

- DOI status – State of the DOI associated with the dataset



No DOI Added



Reserved



Active



Non ESS-DIVE
DOI

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Data from: "Enabling FAIR data in Earth and environmental science with community-centric (meta)data reporting formats"

Robert Crystal-Ornelas, Charuleka Varadharajan, Kathleen Beilsmith, Ben Bond-Lamberty, Kristin Boye, Madison Burrus, Shreyas Cholia, Danielle S Christianson, Michael Crow, Joan Damerow, Kim S Ely, Amy E Goldman, Susan Heinz, Valerie C Hendrix, Zarine Kakalia, Kayla Mathes, Fianna O'Brien, Dylan O'Ryan, Stephanie C Pennington, ... and Deb Agarwal [+ SHOW 7 MORE AUTHORS](#)

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 File_9_water_and_soil_chemistry_crosswalk.csv	More info text/csv	13 KB	Download 

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Dataset Statuses



Drafting

The dataset is in progress and has not yet been submitted for publication review.



Review

The dataset is finalized and currently in publication review. An ESS-DIVE reviewer will reach out with proposed changes via email.



Published

The dataset has been accepted for publication and is openly accessible on ESS-DIVE.

DOI Statuses



No DOI
Added

No DOI is associated with the dataset. DOI can be set by publishing a dataset, providing an existing DOI, or reserving a DOI.



Reserved

A DOI has been reserved for this dataset. This DOI will not function until the dataset has been reviewed and published by ESS-DIVE.

DOI Statuses



Active

The dataset DOI is live and accessible to the public.

Users can access the ESS-DIVE dataset landing page. ESS-DIVE manages this DOI and regularly updates DOI record with OSTI.



Non
ESS-DIVE DOI

The DOI associated with dataset is not managed by ESS-DIVE.

This dataset was originally published with a DOI on another repository. The DOI is not managed by ESS-DIVE, therefore no status is available.

Who can access these new features?

Who can view Status Badges?



Viewer

Must have an ESS-DIVE Account

Can **read and search** for datasets



Editor

Must be an approved Data Contributor

Can read, **edit metadata**, **view statuses**, and **add/remove files**



Manager

Must be an approved Data Contributor

Can do everything an editor can, **reserve DOIs**, **publish** datasets, and **add/remove people** from dataset permissions

Who can access Publication Management?



Viewer

Must have an ESS-DIVE Account

Can **read and search** for datasets



Editor

Must be an approved Data Contributor

Can read, **edit metadata**, **view statuses**, and **add/remove files**



Manager

Must be an approved Data Contributor

Can do everything an editor can, **reserve DOIs**, **publish** datasets, and **add/remove people** from dataset permissions

Who can you share datasets with?



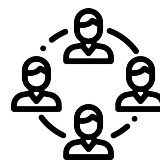
The screenshot shows the ESS-DIVE web interface. At the top, there is a navigation bar with the ESS-DIVE logo, the text "Deep Insights for Earth Science Data", and menu items: DATA, PORTALS, SUPPORT, ABOUT, SUBMIT DATA, and a user profile for MADISON. Below this is a table of files. One file is highlighted: "FATES Parameters and Output for Parameter Sensitivity at the Panama Barro Colorado Island Testbed", which is 7 KB in size. In the "Actions" column for this file, there are two buttons: "+ Add Files" and "Share". The "Share" button is highlighted with an orange box, and a blue arrow points from it to a larger callout box. This callout box contains the text "Click [Share] to grant permissions to your data" and shows a close-up of the "Share" button. Below the file table, there is a "People" section with a sidebar menu (Overview, People, Dates, Locations, Methods) and a main content area for "Contact" information, including fields for name (Charlie, Koven), organization (Lawrence Berkeley National Laboratory), and ORCID ID (http://orcid.org/0000-0002-3367-0065). At the bottom of the interface, there is a footer with the text "By submitting your dataset, you agree to the ESS-DIVE terms of use." and a "Submit Dataset" button.



Data Contributor



Collaborator

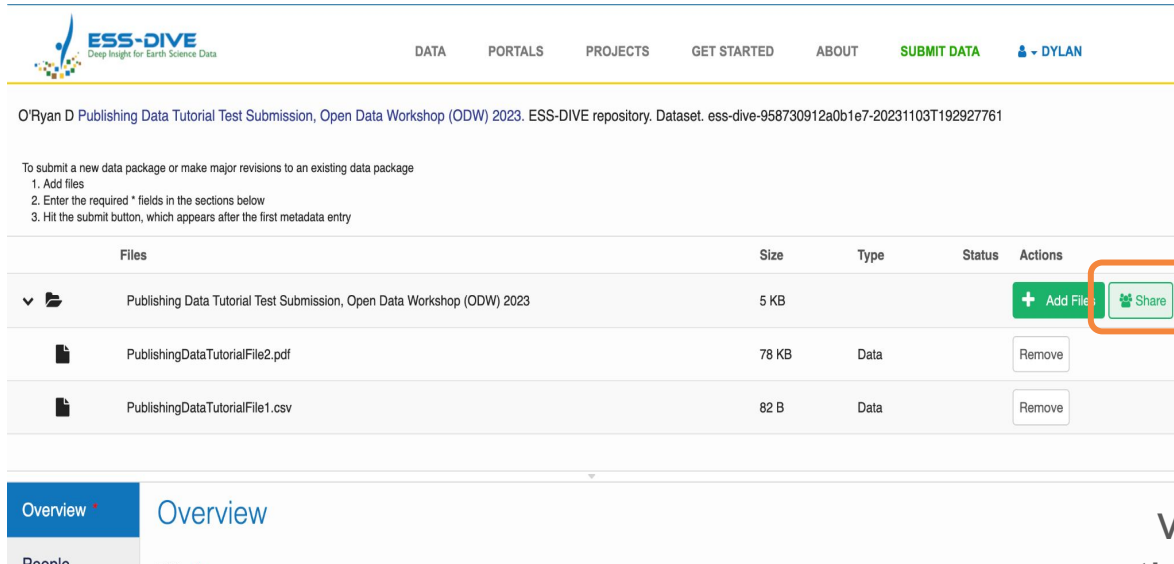





Teams



PI /
Project Manager

How to modify permissions

A screenshot of the ESS-DIVE dataset editor interface. The top navigation bar includes the ESS-DIVE logo, the tagline "Deep Insight for Earth Science Data", and menu items: DATA, PORTALS, PROJECTS, GET STARTED, ABOUT, SUBMIT DATA, and a user profile for DYLAN. Below the navigation is a dataset title: "O'Ryan D Publishing Data Tutorial Test Submission, Open Data Workshop (ODW) 2023. ESS-DIVE repository. Dataset. ess-dive-958730912a0b1e7-20231103T192927761". A list of instructions for submitting data is provided. The main area contains a table of files with columns for Files, Size, Type, Status, and Actions. The first row is expanded, showing a folder icon and the file name "Publishing Data Tutorial Test Submission, Open Data Workshop (ODW) 2023". The Actions column for this row contains a green "+ Add File" button and a green "Share" button. An orange box highlights the "Share" button, with an orange arrow pointing to a larger, detailed view of the "Share" button on the right. The bottom of the screenshot shows a navigation menu with "Overview" selected and "People" partially visible.

Files	Size	Type	Status	Actions
▼  Publishing Data Tutorial Test Submission, Open Data Workshop (ODW) 2023	5 KB			<input type="button" value="+ Add File"/> <input type="button" value="Share"/>
 PublishingDataTutorialFile2.pdf	78 KB	Data		<input type="button" value="Remove"/>
 PublishingDataTutorialFile1.csv	82 B	Data		<input type="button" value="Remove"/>



Access the **Sharing Panel** via the dataset editor to modify the permissions on your dataset.

How to modify permissions






Sharing options

Permissions


Give registered ESS-DIVE users permissions to view, edit, or manage the metadata record **and** data files for this dataset publication.

- **View** - your team member can see this dataset when it's private. This dataset will appear on the search page when they login to ESS-DIVE.
- **Edit** - your registered* team member can see this dataset when it's private, change the dataset metadata, add/remove files, publish the dataset, and edit the dataset after its published. This dataset will appear in their "My Data Packages" list.
- **Manage** - your registered* team member has all the same access abilities as an editor and in addition can share this dataset with other people or remove people from the dataset permissions. This dataset will appear in their "My Data Packages" list.

*this person completed the New Data Contributor form and was approved to edit and submit metadata to ESS-DIVE

Name	ORCID	Access
 Madison R. Burrus (You)	 http://orcid.org/0000-0002-0439-9173	Manage
 Dylan P. O'Ryan	 http://orcid.org/0009-0006-6124-6583	Edit 

Search by name, ORCID, or team name

Manage 

Cancel Save

Search for individuals or team names (or by ORCID)

Set users as editors or managers.



What about the person who created the dataset?



Creator

The Creator has **Manage permission** by default

Must be registered as a
Data Contributor

The creator's permissions **cannot be altered or removed**. They will always have access to the dataset and be able to manage the dataset's publication.

Data Usage and Quality Reminders

Citing Datasets

Home / Search / Metadata

DATASET | doi:10.15485/1535479, version: ess-dive-090e32d79f4123b-20240703T223052576

⚠ Warning: Your reserved DOI does not function and your dataset is private. Complete the dataset review to publish and activate DOI.

DOI Status

Reserved

Dataset Status

Drafting

Templates for developing and versioning data standards and reporting formats using GitHub

Robert Crystal-Ornelas, Charuleka Varadharajan, Ben Bond-Lamberty, Kristin Boye, Madison Burrus, Shreyas Cholia, Michael Crow, Joan Damerow, Ranjeet Davarakonda, Kim Ely, Amy Goldman, Susan Heinz, Valerie Hendrix, Zarine Kakalia, Stephanie Pennington, Emily Robles, Alistair Rogers, Maegen Simmonds, Terri Velliquette, ... and Deborah A Agarwal [+ SHOW 3 MORE AUTHORS](#)

Cite this dataset

Assessment report

Edit

Manage Publication

Cite this Dataset

Crystal-Ornelas R ; Varadharajan C ; Bond-Lamberty B ; Boye K ; Burrus M ; Cholia S ; Crow M ; Damerow J ; Davarakonda R ; Ely K S ; Goldman A ; Heinz S ; Hendrix V ; Kakalia Z ; Pennington S ; Robles E ; Rogers A ; Simmonds M ; Velliquette T ; Weierbach H ; Weisenhorn P ; Welch J N ; Agarwal D A (2021): Templates for developing and versioning data standards and reporting formats using GitHub. Environmental Systems Science Data Infrastructure for a Virtual Ecosystem (ESS-DIVE), ESS-DIVE repository. Dataset. doi:10.15485/1780564 accessed via <https://data.ess-dive.lbl.gov/datasets/doi:10.15485/1780564> on 2024-09-16

Copy To Clipboard

Important! Ensure use of proper dataset citation with DOI

You should cite datasets in your paper references section

Assessment Reports

Home / Search / Metadata

DATASET | ess-dive-17a238a24fed3ac-20240703T223219294

Data from: "Enabling FAIR data in Earth and environmental science with community-centric (meta)data reporting formats"

Robert Crystal-Ornelas, Charuleka Varadharajan, Kathleen Beilsmith, Ben Bond-Lamberty, Kristin Boye, Madison Burrus, Shreyas Cholia, Danielle S Christianson, Michael Crov Joan Damerow, Kim S Ely, Amy E Goldman, Susan Heinz, Valerie C Hendrix, Zarine Kakalia, Kayla Mathes, Fianna O'Brien, Dylan O'Ryan, Stephanie C Pennington, ... and Deb Agarwal [+ SHOW 7 MORE AUTHORS](#)

DOI Status

No DOI Added

Dataset Status

Drafting



Metadata 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.

Assessment suite: ESS-DIVE Conformance Suite v1.2.1

21 checks

Findable: 94% complete

Accessible: 100% complete

Reusable: 100% complete

Interoperable: 100% complete

Passed 18 checks out of 18 (informational checks not included).

Warning for 0 checks.

Failed 0 checks.

3 informational checks.

Cite this dataset

Assessment report

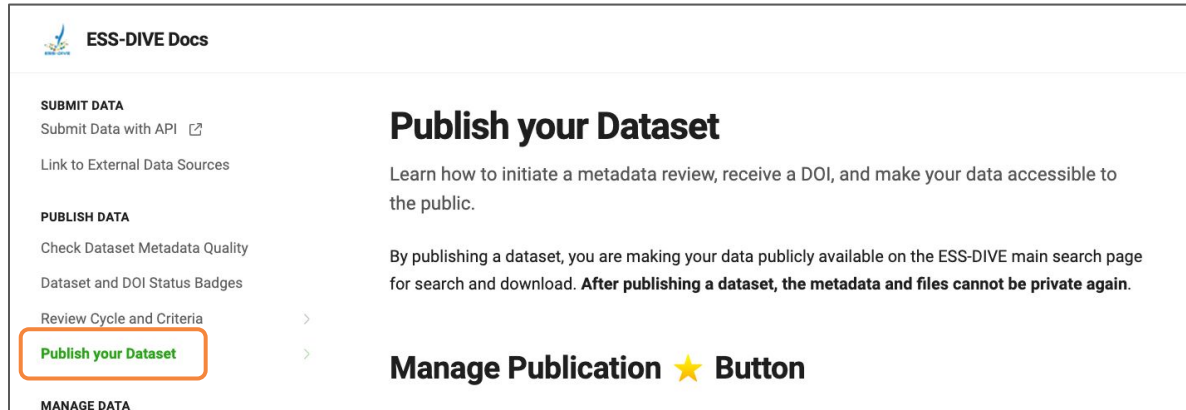
Edit

Manage Publication

Receive **feedback** while preparing dataset metadata

Documentation

You can find all this material on ESS-DIVE's...

A screenshot of the ESS-DIVE Docs website. The page has a white background with a blue header containing the ESS-DIVE logo and the text "ESS-DIVE Docs". Below the header, there are three main sections: "SUBMIT DATA", "PUBLISH DATA", and "MANAGE DATA". The "SUBMIT DATA" section includes links for "Submit Data with API" and "Link to External Data Sources". The "PUBLISH DATA" section includes links for "Check Dataset Metadata Quality", "Dataset and DOI Status Badges", and "Review Cycle and Criteria". The "Publish your Dataset" link is highlighted with an orange box. The "MANAGE DATA" section includes a link for "Manage Publication" with a yellow star icon, which is also highlighted with an orange box.

ESS-DIVE Docs

SUBMIT DATA
Submit Data with API [↗](#)
Link to External Data Sources

PUBLISH DATA
Check Dataset Metadata Quality
Dataset and DOI Status Badges
Review Cycle and Criteria >
Publish your Dataset >

MANAGE DATA
Publish your Dataset

Publish your Dataset

Learn how to initiate a metadata review, receive a DOI, and make your data accessible to the public.

By publishing a dataset, you are making your data publicly available on the ESS-DIVE main search page for search and download. **After publishing a dataset, the metadata and files cannot be private again.**

Manage Publication ★ Button

Publish your Data Documentation

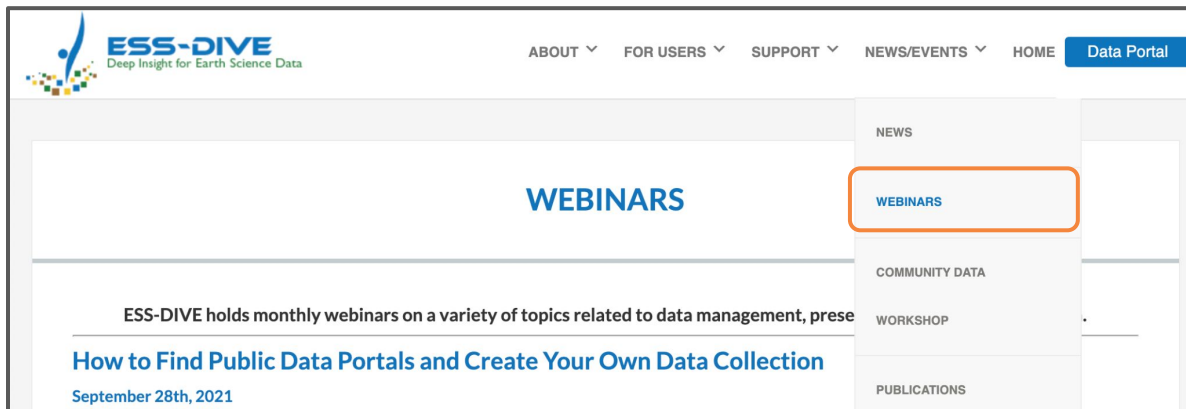
<https://docs.ess-dive.lbl.gov/>

Includes Troubleshooting Guide!

Webinar page

Where this slide deck is available for download

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

A screenshot of the ESS-DIVE website. The header features the ESS-DIVE logo and navigation links for "ABOUT", "FOR USERS", "SUPPORT", "NEWS/EVENTS", and "HOME". A "Data Portal" button is highlighted in blue. The main content area has a large "WEBINARS" heading. Below it, there is a description of the webinars and a link to a specific webinar titled "How to Find Public Data Portals and Create Your Own Data Collection" dated "September 28th, 2021". A sidebar on the right contains a menu with "WEBINARS" highlighted in an orange box, along with other options like "COMMUNITY DATA", "WORKSHOP", and "PUBLICATIONS".

ESS-DIVE
Deep Insight for Earth Science Data

ABOUT ▾ FOR USERS ▾ SUPPORT ▾ NEWS/EVENTS ▾ HOME **Data Portal**

WEBINARS

ESS-DIVE holds monthly webinars on a variety of topics related to data management, presenters, and more.

How to Find Public Data Portals and Create Your Own Data Collection

September 28th, 2021

NEWS
WEBINARS
COMMUNITY DATA
WORKSHOP
PUBLICATIONS

Summary

Summary of Webinar

- How datasets are published on ESS-DIVE
- Showcase of new dataset publication interface and status badges
- Who has access to these new tools
- Documentation of New Features

Related Resources

Save the Date: 2024 Community Data Workshop



What to expect:

- Presentations from community members
- Tutorials on ESS-DIVE features
- Community Discussions

Invitation Coming Soon!



Theme

Towards ESS Data Integration and Use



Join us!

Virtually **Nov 14-15, 9 am - 2pm PT**
Invitation link and agenda coming soon!

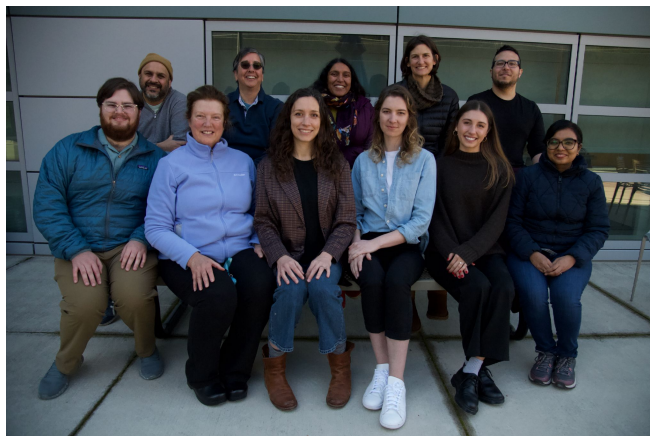
Discussion

- General feedback on new publication feature and status badges.
- Would reminder notifications for publishing reserved DOIs be useful to you? If so, when would you recommend that these be sent?
- What other needs do you have around data DOIs and publication?



Questions?

Thank you! Let's Stay Connected.



Contact us if you are interested in any hands on activities: ess-dive-support@lbl.gov

ESS-DIVE Documentation

docs.ess-dive.lbl.gov

Join our community mailing list!

<https://bit.ly/essdiveMailingList>

Supplemental Information

Sharing datasets

Work with team members to manage and publish datasets

- **Review datasets** created by team members before or after publication
- **Share progress** with team and project managers
- **Collaborate** to complete a dataset or **hand off work** to team members for completion

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

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/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 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