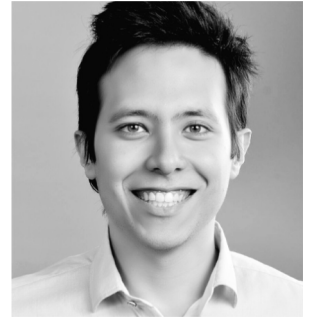


ESS-DIVE February Monthly Webinar: Portals



Hesham Elbashandy, Deb Agarwal, Charuleka Varadharajan, Shreyas Cholia, Val Hendrix, Cory Snavely, Fianna O'Brien, Joan Damerow, Makayla Shepherd, Mario Melara, Madison Burrus, Abdelilah Essiari, Zarine Kakalia, Emily Robles, Karen Whitenack and Maegen Simmonds



ESS-DIVE

Deep Insight for Earth Science Data



ESS-DIVE Repository Current Features



Deep Insight for Earth Science Data

DATA SUPPORT ABOUT [Submit Data](#) [Sign in with OrCID](#)

Search ⓘ
Search phrase 🔍

Filter by:

- Identifier
- Region description
- Creator
- Year

DATASETS 1 TO 25 OF 310

1 2 3 ... 13 Next

Sort by Most recent ▾

Villa J A ; Ju Y ; Smith G J ; Angle J C ; Renteria L ; Arntzen E ; Harding S F ; Stegen J C ; Wrighton K C ; Bohrer G (2020): **Chamber Flux and Porewater Concentration of CH₄, CO₂ and N₂O, 2018, Columbia River bank at the Hanford site, WA, USA.** Accounting for hydrological and microbial processes on greenhouse gas budgets from river systems. doi:10.15485/1595105

Hanson P ; Riggs J ; Nettles C ; Dorrance W ; Hook L (2015): **SPRUCE S1 Bog Environmental Monitoring Data: 2010-2016.** SPRUCE. ess-dive-d2a406cbc2433e1-20200225T133556292593.

Wan J ; Tokunaga T K ; Williams K H ; Brown W ; Dong W ; Henderson A N ; Newman A M ; Hubbard S S (2019): **Predicting sedimentary bedrock subsurface weathering fronts and weathering rates: Dataset.** Watershed Function SFA. doi:10.15485/1601290

Harrell P (2010): **Marine Corps Base Camp Lejeune Greenness Gain from 1984 to 2005.** Defense Coastal/Estuarine Research Program (DCERP). doi:10.15485/1601468

Falco N ; Wainwright H ; Dafflon B ; Leger E ; Peterson J ; Steltzer H ; Wilmer C ; Rowland J ; Williams K ; Hubbard S (2019): **Remote Sensing and Geophysical Characterization of a Floodplain-Hillslope System in the East River Watershed, Colorado.** Watershed Function SFA. doi:10.21952/WTR/1490867

Pries C ; Angert A ; Castanha C ; Hilman B ; Torn M (2020): **Blodgett Forest CA Warming Experiment Soil Gas Well Data March 2014 to June 2017.** Terrestrial Ecosystem Science at Berkeley Lab. doi:10.15485/1596312

Hide Map >>

Satellite Terrain

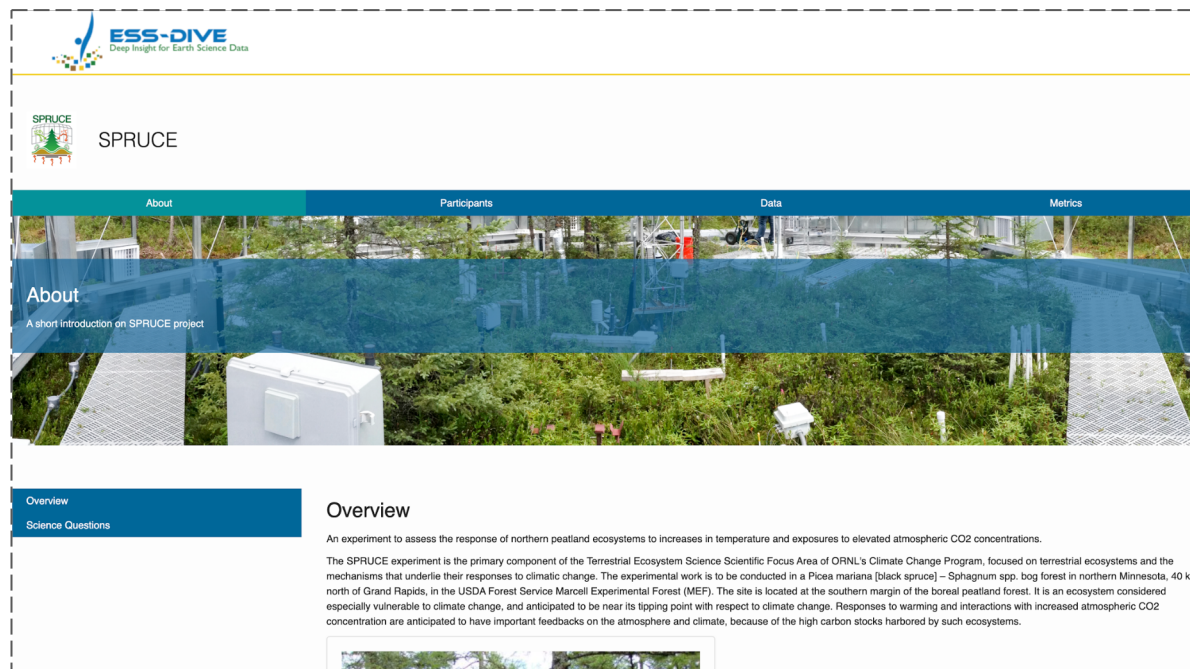
Office of Science

Feb/27/2019 - Portals Webinar

ESS-DIVE portals



- A Portal is a **collection of data packages**.
- Can have it's own **custom theme** that gives each portal it's own identity.



Portals use cases



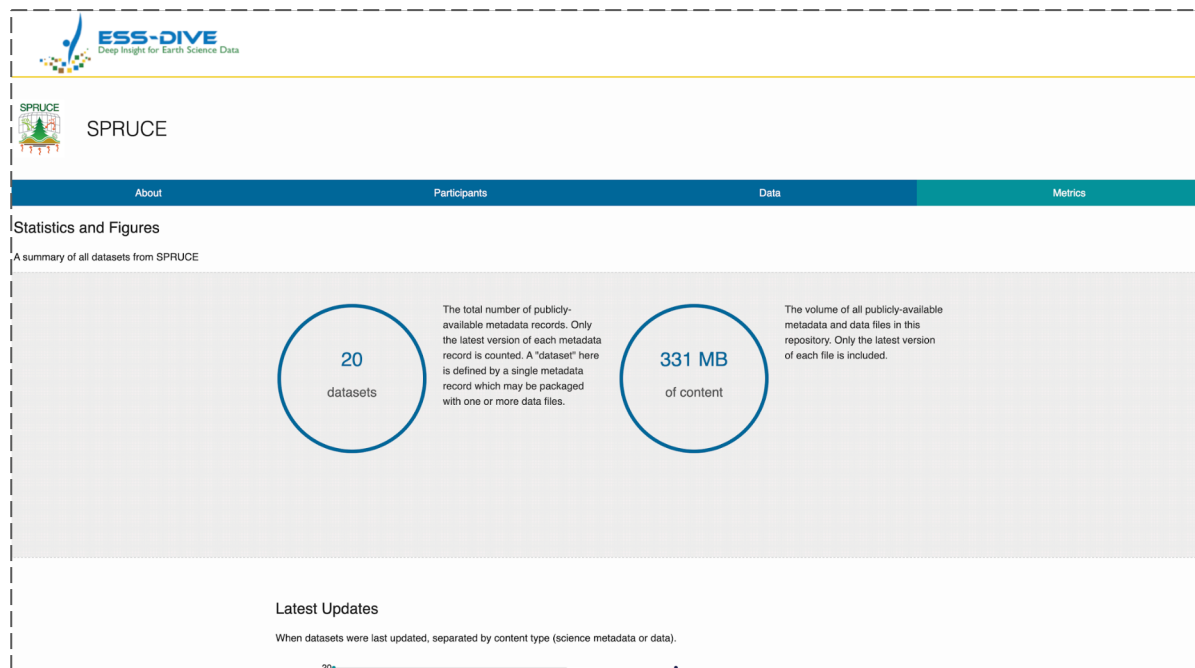
- It can be used in many different ways including as a portal for **projects** that collects a project data packages into one place.
- Enabling **project's information** and data to be found in the repository easily in the future.

The screenshot displays the ESS-DIVE portal interface. At the top, the ESS-DIVE logo and tagline 'Deep Insights for Earth Science Data' are visible. Below this, the 'SPRUCE' dataset is highlighted. A navigation bar contains links for 'About', 'Participants', 'Data', and 'Metrics'. A search bar is present with the text 'Search these datasets'. The main content area lists 'DATASETS 1 TO 20 OF 20' with a 'Sort by' dropdown set to 'Most recent'. The dataset list includes entries such as 'Griffiths N; Sebestyen S (2016): SPRUCE S1 Bog Porewater, Groundwater, and Stream Chemistry Data: 2011-2013' and 'Wilson R; Hopple A; Trilly M; Sebestyen S; Schadt C; Pleifer-Meister L; Medvedeff C; McFarlane K; Koska J; Kolton M; Kolka R; Kluber L (2016): SPRUCE Stability of Peatland Carbon to Rising Temperatures: Supporting Data'. On the right, a world map shows the location of the datasets, with a red box highlighting the United States and a blue box highlighting Canada.

Portals metrics



- The metric page provides **useful insights** on the data packages filtered inside that portal.
- Metrics covers data packages number, sizes, time period of data and update frequencies.



Portals main components



Landing tab

Data tab

Metrics tab

Other custom tabs

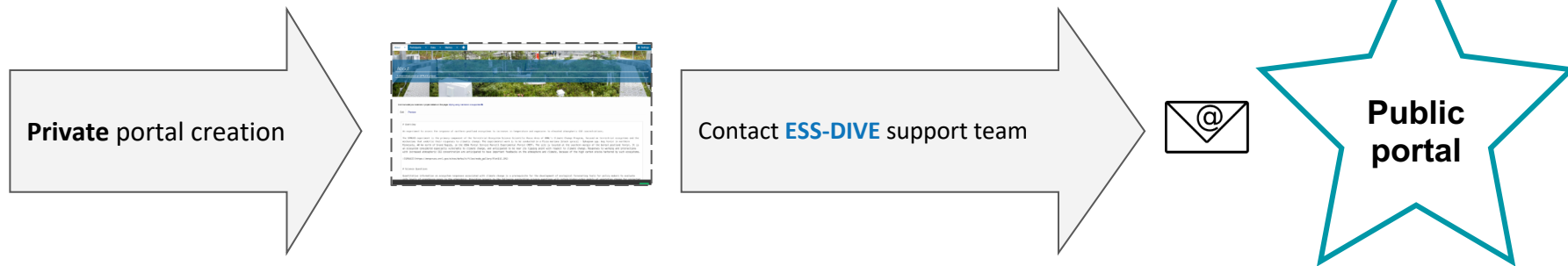
Sharing portals?

Example identifier: `data.ess-dive.lbl.gov/portals/CDIAC`

Each portal have its own **unique** identifying label.

No complex identifiers!

Publishing portals



Where to find portals



ESS-DIVE
Deep Insight for Earth Science Data

DATA SUPPORT ABOUT [Submit Data](#) [HESHAM](#)

My Data Settings

Welcome, Hesham

Settings

My account

[My portals](#) ★ [Alpha](#)

Authentication Token

My Portals

[+ New portal](#)

Logo	ID	Title	
The SPRUCE logo features a stylized green tree with a red and white grid pattern behind it.	SPRUCE	SPRUCE	Edit
The CDIAC logo is a blue sphere with white curved lines, resembling a globe or a stylized atom.	CDIAC	Carbon Dioxide Information Analysis Center	Edit

Creating your portal tabs



AboutParticipantsDataMetrics+

Settings

About

A short introduction on SPRUCE project

Communicate your science or project details on this page. Styling using markdown is supported.

Edit

Preview

Overview

An experiment to assess the response of northern peatland ecosystems to increases in temperature and exposures to elevated atmospheric CO2 concentrations.

The SPRUCE experiment is the primary component of the Terrestrial Ecosystem Science Scientific Focus Area of ORNL's Climate Change Program, focused on terrestrial ecosystems and the mechanisms that underlie their responses to climatic change. The experimental work is to be conducted in a Picea mariana [black spruce] – Sphagnum spp. bog forest in northern Minnesota, 40 km north of Grand Rapids, in the USDA Forest Service Marcell Experimental Forest (MEF). The site is located at the southern margin of the boreal peatland forest. It is an ecosystem considered especially vulnerable to climate change, and anticipated to be near its tipping point with respect to climate change. Responses to warming and interactions with increased atmospheric CO2 concentration are anticipated to have important feedbacks on the atmosphere and climate, because of the high carbon stocks harbored by such ecosystems.


![SPRUCE] (https://mnspruce.ornl.gov/sites/default/files/node_gallery/Plot31E.JPG)

Science Questions


Quantitative information on ecosystem responses associated with climate change is a prerequisite for the development of ecological forecasting tools for policy makers to evaluate safe levels of greenhouse gases in the atmosphere. Providing answers to the following overarching science questions will inform higher-order models of vegetation change for projected

Data packages filtering





ESS-DIVE
Deep Insight for Earth Science Data



Title
SPRUCE

About

Participants

Data

Metrics

+

Settings

Dataset collection

Search for the datasets that should be included in this collection and click "Save" to save the final search.

Search

Search these datasets

CURRENT SEARCH CLEAR ALL

Project: Climate Change-
Terrestrial Ecosystem
Science SFA

Search for:

☐ Datasets added manually

Creator

Name

Project

Project Name

Publish Year

DATASETS 1 TO 20 OF 20

Sort by Most recent

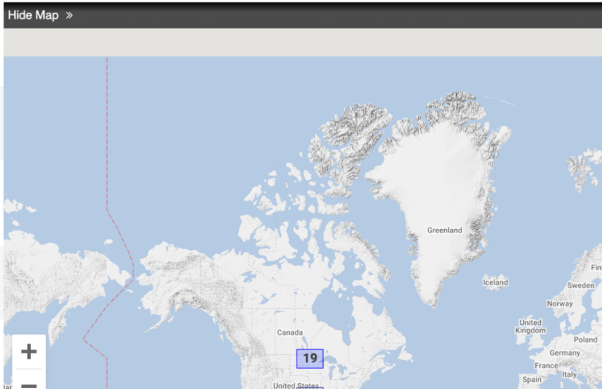
Griffiths N; Sebestyen S (2016): **SPRUCE S1 Bog Porewater, Groundwater, and Stream Chemistry Data: 2011-2013.** ess-dive-788349a986c74cb-20200225T130659640527.

Wilson R; Hopple A; Tfaily M; Sebestyen S; Schadt C; Pfeifer-Meister L; Medvedeff C; McFarlane K; Kostka J; Kolton M; Kolka R; Kluber L (2016): **SPRUCE Stability of Peatland Carbon to Rising Temperatures: Supporting Data.** ess-dive-7c0b5a96588ba17-20200225T130605526780.

Phillips J; Brice D; Hanson P; Childs J; Iversen C; Norby R; Warren J (2017): **SPRUCE Pretreatment Plant Tissue Analyses, 2009 through 2013.** ess-dive-0ffed6b03b04ae6-20200225T130531866679.

Jensen A; Warren J; Hanson P; Childs J; Wulfschlegler S (2015): **SPRUCE S1 Bog Pretreatment Photosynthesis and Respiration for Black Spruce: 2010-2013.** ess-dive-d84df2ab33a53a-20200225T130501925282.

Hide Map



+

Save

Applied filter

Project filter field

Feb/27/2019 - Portals Webinar

Portals timeline



Creating your first portal



Suggested image size: 1200 x 1000 pixels

Communicate your science or project details on this page. Styling using markdown is supported .

Edit

Preview

Example Portal

Level 2 Header

Replace this example with your content. Styling using markdown is supported.

Example Portal

Markdown is a simple way to format text.

Level 2 Header

For example, *this text will be italic* and **this text will be bold**. Here is a link to [DataOne](#), and here is an equation written using the TeX language: $y = X\beta + \epsilon$.

Add an image like so:



Show in-line code using `single backticks`, or show it as a separate block using triple backticks:

```
my_string <- "Check out the code I wrote"
print(my_string)
```

Here is how to make a table:

Tables	Are	Cool
x	a	\$1600
y	b	\$12
z	c	\$1600

Save

Viewing the created portal



The logo for ESS-DIVE (Earth Science Data Infrastructure) features a stylized blue figure with arms raised, composed of a grid of small squares in various colors (blue, green, yellow, orange, red). Below the figure, the text "ESS-DIVE" is written in a bold, blue, sans-serif font.
Deep Insight for Earth Science Data

Example Portal

About

Another tab

Data

Metrics

About example project

Brief introduction

Example Portal

Level 2 Header

Replace this example with your content. Styling using markdown is supported.

Example Portal

Markdown is a simple way to format text.

Level 2 Header

For example, *this text will be italic* and **this text will be bold**. Here is a link to [DataOne](#), and here is an equation written using the TeX language: $y = X\beta + \epsilon$.

Add an image like so:

The DataONE logo consists of the word "DataONE" in a bold, blue, sans-serif font, with a stylized globe icon replacing the letter "O". Below the text, the tagline "Data Observation Network for Earth" is written in a smaller, blue, sans-serif font.

Show in-line code using `single backticks`, or show it as a separate block using triple backticks:

```
my_string <- "Check out the code I wrote"
print(my_string)
```


Questions/Feedback?

Thank you.

Live Demo!