



Engaging Public Participation in Collections Digitization

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Outline

- Why engage the public in collections digitization?
- How are collections doing it?
 - Overview
 - Project Management
 - Public Engagement
 - California Phenology Project
 - WeDigFLPlants



Outline

- **Why engage the public in collections digitization?**
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Why engage the public in collections digitization?

Public participation in digitization is a value-added activity.



Public participation as a value-added activity:

- Decreases time (and money) spent on certain tasks



An example from Notes from Nature and the California Network

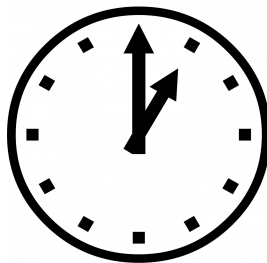
1 year

9 expeditions

13,729 specimens transcribed



An example from Notes from Nature and the California Network



2288 hours

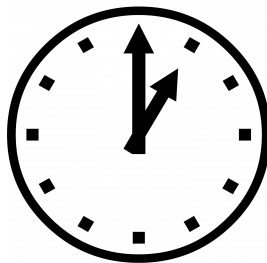
13,729 specimens =



\$34,320



An example from Notes from Nature and the California Network



54 hours

In reality, we
only spend:



\$1,620



$\$34,320 - \$1,620 = \textbf{\$32,700}$ saved



Public participation is a value-added activity

- Decreases time (and money) spent on certain tasks
- Increases awareness of natural history collections and their importance

“You can’t love what you don’t know much about.”
- David McCullough



Ellwood et al. 2018

After participating in a digitization event,
70% of participants indicated “higher” or
“much higher” level of awareness of the
value of biodiversity specimens.

91% of participants agreed that biodiversity
collections merit public funding.



Public participation is a value-added activity

- Decreases time (and money) spent on certain tasks
- Increases awareness of natural history collections and their importance
- Builds pool of potential dedicated volunteers...



Public participation is a value-added activity

- Decreases time (and money) spent on certain tasks
- Increases awareness of natural history collections and their importance
- Builds pool of potential dedicated volunteers...
 - ...and even scientists and collections professionals



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How are collections engaging the public in digitization?

- **Online**, at a diversity of platforms, such as Zooniverse, Digivol, DoeDat, Les Herbonautes, Die Herbonauten, and Smithsonian Transcription Center.
- **Onsite**, during “blitzes”, classroom activities, and museum exhibits.
- **Blending both** during WeDigBio (now in April and October) and sustained collaborations with amateur enthusiast groups.



How are collections engaging the public in digitization?

Active Projects



NOTES FROM NATURE -
INVERTEBRATE TIME
MACHINE



NOTES FROM NATURE - FLORA
OF TEXAS AND OKLAHOMA



NOTES FROM NATURE - MI-
BUG



NOTES FROM NATURE -
TERRESTRIAL PARASITE
TRACKER



NOTES FROM NATURE -
EXPEDITION ARCTIC BOTANY



NOTES FROM NATURE -
HERBARIUM



NOTES FROM NATURE - NYBG



NOTES FROM NATURE -
SOUTHEASTERN U.S.
BIODIVERSITY



NOTES FROM NATURE -
CAPTURING CALIFORNIA'S
FLOWERS



NOTES FROM NATURE -
PLANTS OF ARKANSAS



NOTES FROM NATURE -
CALBUG

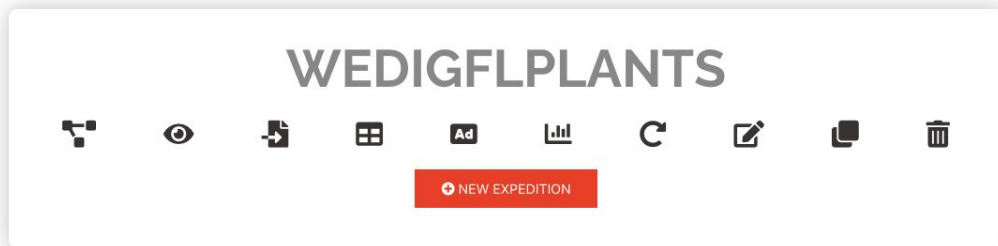


NOTES FROM NATURE -
WEDIGFLPLANTS

<https://www.zooniverse.org/organizations/md68135/notes-from-nature>



How are collections engaging the public in digitization?



[DELETE UNASSIGNED SUBJECTS](#)

Subjects currently assigned: 53353

assigned	exported	id	accessURI	ocr
No	false	0f24819b-4214-4062-bfa5-5e82d2540cce	View Image View Thumb View URL	a University of Florida Herbarium Florida Museum of N
No	false	7b502f18-541b-4703-a37f-89f47b494cd3	View Image View Thumb View URL	Examined for rare University of Florida Herbarium Flori
No	false	10cd49ec-3c27-4781-bb3e-63cf81dbc20f	View Image View Thumb View URL	University of Florida Herbarium rida Museum of Natura
Yes	true	ac2dd78f-e53e-466d-8909-e17535a0222e	View Image View Thumb View URL	R. K. Godfrey Herbarium (FSU) *000106 876* Nuphar i
Yes	true	55750d52-4bcd-44aa-bb9e-cf16d226b013	View Image View Thumb View URL	S vo 3 < 3 & 3 3 me ;s q S a. n 2 = n S = 3 S & 8 \$ z !
Yes	true	7bff8444-9f3a-45f4-ad96-6e963210287f	View Image View Thumb View URL	UL i 1 IMI R. K. Godfrey Herbarium (FSU) HERBARIUM i
Yes	true	f34786d2-de75-4d2c-8f1d-f7791bd3ee4d	View Image View Thumb View URL	R. K. Godfrey Herbarium (FSU) *@Gootwtldog6s67 3 «
Yes	true	d8ebb034-f61b-4eb3-904f-363fceed291	View Image View Thumb View URL	R. K. Godfrey Herbarium (FSU) aogo iro 6ser??2s HERI
Yes	true	64ab45a4-bbe3-4e0e-a9f1-63bed8a9e16d	View Image View Thumb View URL	FLORIDA STATE R. K. Godfrey Herbarium (FSU) co O.e
Yes	true	43628787-c5c9-49a6-bd4c-a82d283f7218	View Image View Thumb View URL	HERBARIUM 41821 FLORIDA STATE UN HERBARIUM C



What is Zooniverse?

- *The world's largest and most popular platform for people-powered research.* <https://www.zooniverse.org/about>
- A large community of **participants**.
- **Cyberinfrastructure**, including the public engagement interface, progress dashboard, Talk forum, project builder, and APIs.
- A project **team** of 30+.
- **Experience**, from which policies and best practice documents have been derived.



What is Zooniverse?

PROJECT #6428

[View project](#)

Project details

[About](#)

[Collaborators](#)

[Field guide](#)

[Tutorial](#)

[Media](#)

[Visibility](#)

[Talk](#)

[Data Exports](#)

[Workflows](#)

[Subject Sets](#)

NEED SOME HELP?

[Read a tutorial](#)

[Ask for help on talk](#)

[Glossary](#)

OTHER ACTIONS

[Delete this project](#)

Input the basic information about your project, and set up its home page.

Avatar



Pick a logo to represent your project. To add an image, either drag and drop or click to open your file viewer. For best results, use a square image of not more than 50 KB.

Background image



This image will be the background for all of your project pages, including your project's front page. To add an image, either drag and drop or left click to open your file viewer. For best results, use good quality images that are not more than 50 KB.

This project is part of the [Notes from Nature](#) organization.

If you are not a collaborator on the organization, please coordinate with this project's other collaborators for additional information regarding the affiliated organization.

NAME

Notes from Nature - WeDigFLPlants

You cannot change a live project's name. Your project's URL is [/projects/md68135/notes-from-nature-wedigflplants](#)

DESCRIPTION

Build the historical baseline for plant diversity and distribution in Florida.

This should be a one-line call to action for your project that displays on your landing page. Some volunteers will decide whether to try your project based on reading this, so try to write short text that will make people actively want to join your project. 222 of 300 characters remaining.

INTRODUCTION

[WeDigFLPlants](https://biospex.org/projects/wedigflplants) is a collaboration between professional research botanists, amateur naturalists, gardeners, educators, and citizen scientists to build the most complete picture possible of plant distribution and diversity in Florida over the past 200 years. The data for this historical baseline come from archived plant specimens curated by the world's 3,000 herbaria. Each of these specimens includes a label that answers the who, what, when, and where of the collecting event that produced it. Transcribing that label data into digital form and providing that data online at



What is Notes from Nature?

- An **organization** of projects on Zooniverse, benefitting from what Zooniverse provides.
- A group of enthusiastic **participants**.
- Field Book **cyberinfrastructure**.
- Reconciliation **code** for typical output.
- A support **team**.
- **Experience**, especially as captured in Zooniverse's Talk forum and tutorials.



What is BIOSPEX?

- Cyberinfrastructure for **project management**, including expedition creation, engagement statistics, implementation of NFN reconciliation code, and expert review interface.
- Cyberinfrastructure for **public engagement**, including a project dashboard, event manager, and game generator.
- A support **team**.
- **Experience**, especially as captured in Resources page.



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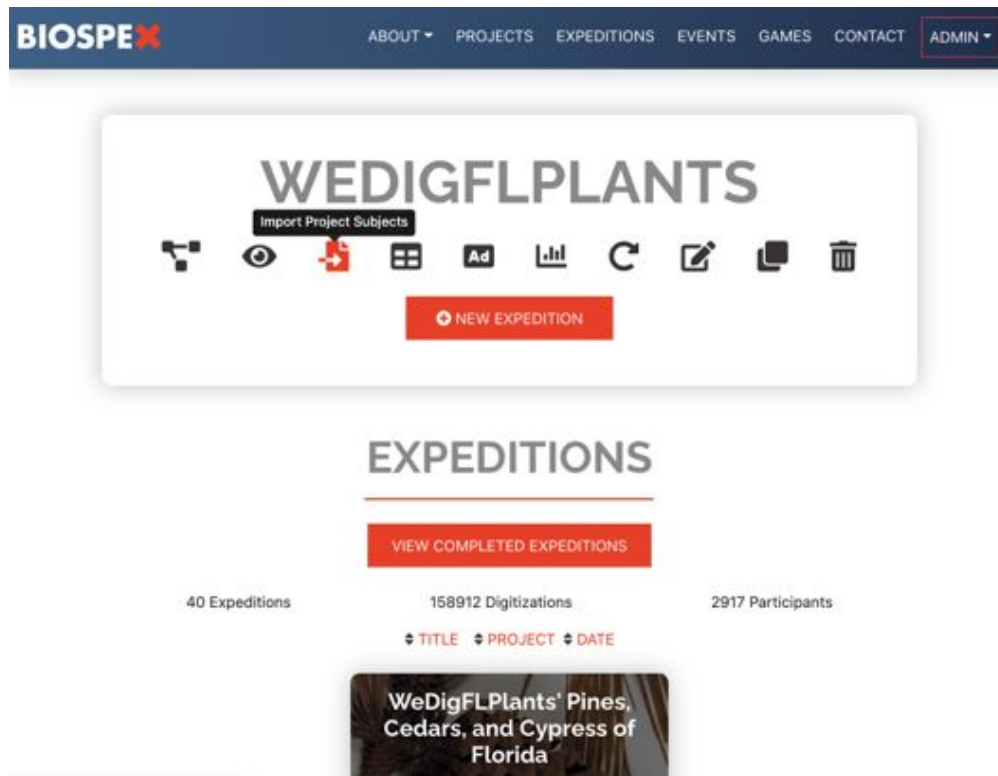


How does the cyberinfrastructure fit together?





How does the cyberinfrastructure fit together?



The screenshot shows the BIOSPEX website interface. At the top is a dark blue navigation bar with the BIOSPEX logo and links for ABOUT, PROJECTS, EXPEDITIONS, EVENTS, GAMES, CONTACT, and ADMIN. Below this is a large white box titled "WEDIGFLPLANTS" with a sub-header "Import Project Subjects". Underneath are several icons representing different functions: a share icon, an eye, a red puzzle piece, a grid, an "Ad" icon, a bar chart, a circular arrow, a document with a pencil, a speech bubble, and a trash can. A red button labeled "NEW EXPEDITION" is positioned below these icons. Below the white box is a section titled "EXPEDITIONS" with a red button labeled "VIEW COMPLETED EXPEDITIONS". Underneath this are three statistics: "40 Expeditions", "158912 Digitizations", and "2917 Participants". Below the statistics are three sort options: "TITLE", "PROJECT", and "DATE". At the bottom is a dark banner with the text "WeDigFLPlants' Pines, Cedars, and Cypress of Florida".



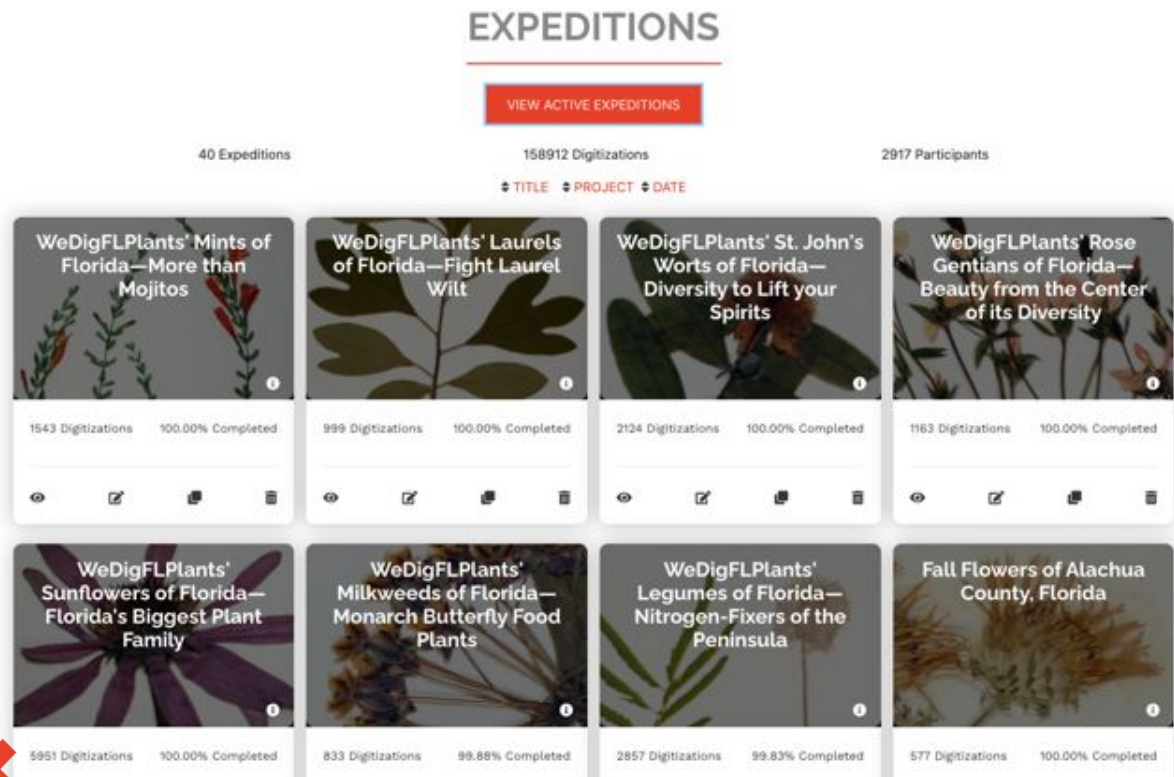
How does the cyberinfrastructure fit together?

Subjects currently assigned (20000 max. per Expedition) : 0

assigned	occurrence.family	occurrence.scient	occurrence	occurrence	ocr	accessURI
<input type="checkbox"/>	No	Nymphaeaceae	Nymphaea odorata	Florida	FLAS	University of Florida Herbarium Flori View Image View Thumb
<input type="checkbox"/>	No	Nymphaeaceae	Nymphaea odorata	Florida	FLAS	i4 PEPER Pg Eee hoe % Examined for View Image View Thumb
<input type="checkbox"/>	No	Nymphaeaceae	Nymphaea odorata	Florida	FLAS	University of Florida Herbarium Flori View Image View Thumb
<input type="checkbox"/>	No	Nymphaeaceae	Nymphaea odorata	Florida	FLAS	iversity of Florida Herbarium Florida View Image View Thumb
<input type="checkbox"/>	No	Nymphaeaceae	Nymphaea odorata	Florida	FLAS	University of Florida Herbarium Flor View Image View Thumb
<input type="checkbox"/>	No	Nymphaeaceae	Nymphaea odorata	Florida	FLAS	, i, 000 00 0 yc a UT 0 1 2 3 4 5 CE View Image View Thumb
<input type="checkbox"/>	No	Nymphaeaceae	Nymphaea odorata	Florida	FLAS	Error: OCR returned empty string. View Image View Thumb
<input type="checkbox"/>	No	Nymphaeaceae	Nymphaea odorata	Florida	FLAS	Error: OCR returned empty string. View Image View Thumb
<input type="checkbox"/>	No	Nymphaeaceae	Nymphaea odorata	Florida	FLAS	HVAT] DAPOTTTEEVT TTY EVTY) TL View Image View Thumb
<input type="checkbox"/>	No	Nymphaeaceae	Nymphaea odorata	Florida	FLAS	AG HRRAN ARG NAN ANAT GHANAM View Image View Thumb
<input type="checkbox"/>	No	Nymphaeaceae	Nymphaea odorata	Florida	FLAS	WATHIVERAV ERA R EGET ED Univer View Image View Thumb
<input type="checkbox"/>	No	Nymphaeaceae	Nymphaea odorata	Florida	FLAS	OPTIRECTILINEAR® University of Flo View Image View Thumb
<input type="checkbox"/>	No	Nymphaeaceae	Nymphaea odorata	Florida	FLAS	Saat Pe EM ttle Florida Museum of N View Image View Thumb
<input type="checkbox"/>	No	Nymphaeaceae	Nymphaea odorata	Florida	FLAS	University of Florida Herbarium Flori View Image View Thumb
<input type="checkbox"/>	No	Nymphaeaceae	Nymphaea odorata	Florida	FLAS	Saat a Pe EM tle Florida Museum of f View Image View Thumb
<input type="checkbox"/>	No	Nymphaeaceae	Nymphaea odorata	Florida	FLAS	< ie: = FAA ARP c GP Ad EG fit Ant ft View Image View Thumb
<input type="checkbox"/>	No	Nymphaeaceae	Nymphaea odorata	Florida	FLAS	Libitititit th flititititidal 5 4 e Universi View Image View Thumb
<input type="checkbox"/>	No	Nymphaeaceae	Nymphaea odorata	Florida	FLAS	University of Florida Herbarium Flori View Image View Thumb
<input type="checkbox"/>	No	Nymphaeaceae	Nymphaea odorata	Florida	FLAS	nT ee aH) ATLANUE CRUTCH NTE Et View Image View Thumb
<input type="checkbox"/>	No	Nymphaeaceae	Nymphaea odorata	Florida	FLAS	University of Florida Herbarium Flori View Image View Thumb



How does the cyberinfrastructure fit together?












How does the cyberinfrastructure fit together?

Expedition Downloads

Zooniverse

Regenerate Export File

Download Type	Filename	File Size	Created	Updated	
export	2-d79224d6-ee75-4fb1-9af1-db0304fcf353.tar.gz	514.05MB	2020-10-08	2020-10-08	 
classification	305.csv	5.43MB	2020-10-10	2020-11-06	
transcript	305.csv	1.46MB	2020-10-10	2020-11-06	
reconcile	305.csv	557.28kB	2020-10-10	2020-11-06	
summary	305.html	5.53MB	2020-10-10	2020-11-06	 

Exit



How does the cyberinfrastructure fit together?

PROJECT #6428

View project

Project details

About

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Field guide

Tutorial

Media

Visibility

Talk

Data Exports

Workflows

Subject Sets

NEED SOME HELP?

Read a tutorial

Ask for help on talk

Glossary

OTHER ACTIONS

Delete this project

Untitled subject set #88429

A subject is a unit of data to be analyzed. A subject can include one or more images that will be analyzed at the same time by volunteers. A subject set consists of a list of subjects (the "manifest") defining their properties, and the images themselves.

Feel free to group subjects into sets in the way that is most useful for your research. Many projects will find it's best to just have all their subjects in 1 set, but not all.

The project has 20677 uploaded subjects. You have uploaded 80820 subjects from an allowance of unlimited. Your uploaded subject count is the tally of all subjects (including those deleted) that your account has uploaded through the project builder or Zooniverse API. Please [contact us](#) to request changes to your allowance.

We strongly recommend uploading subjects in batches of 500 - 1,000 at a time. When uploading large numbers of subjects, we recommend using our [Panoptes command line interface](#) or our [Panoptes Client package for Python](#) rather than the web portal.

NAME

Untitled subject set

A subject set's name is only seen by the research team.

This set contains 0 subjects:

Page 1 of 1

Drag-and-drop or click to upload manifests and subject images here (you must select the media files as well as the manifest). Manifests must be .csv or .tsv. The first row should define metadata headers. All other rows should include at least one reference to an image filename in the same directory as the manifest.

Headers that begin with "@" or "/" denote private fields that will not be visible to classifiers in the main classification interface or in the Talk discussion tool.

Headers that begin with "T" denote fields that will not be visible to classifiers in the main classification interface but will be visible after classification in the Talk discussion tool.

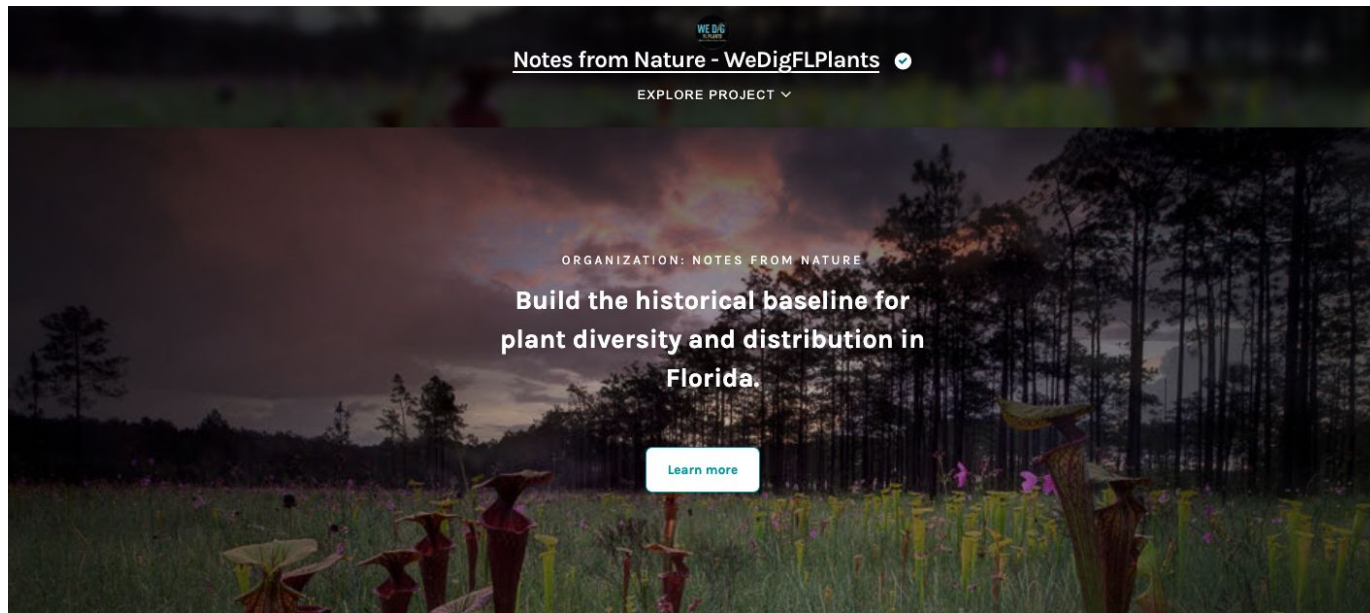
Subject images can be up to 1000KB and any of: .jpg, .jpeg, .png, .gif, .svg, .mp3, .m4a, .mpeg, .txt, .json and may not contain /, \, ,

Upload 0 new subjects





How does the cyberinfrastructure fit together?

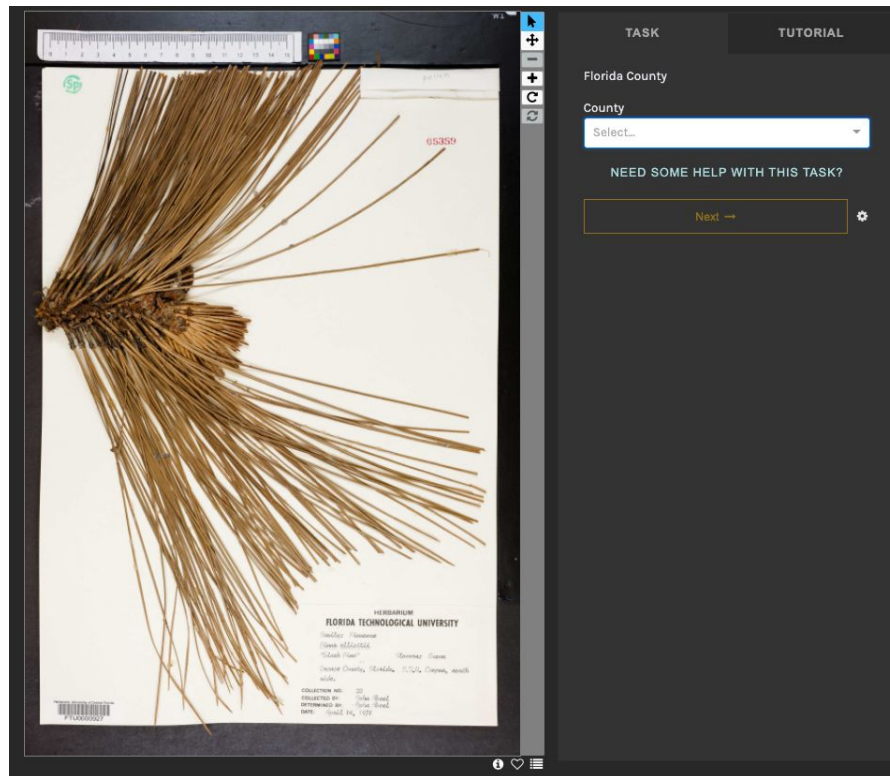


Get started ↓

WeDigFLPlants' Pines, Cedars, and Cypress of Florida

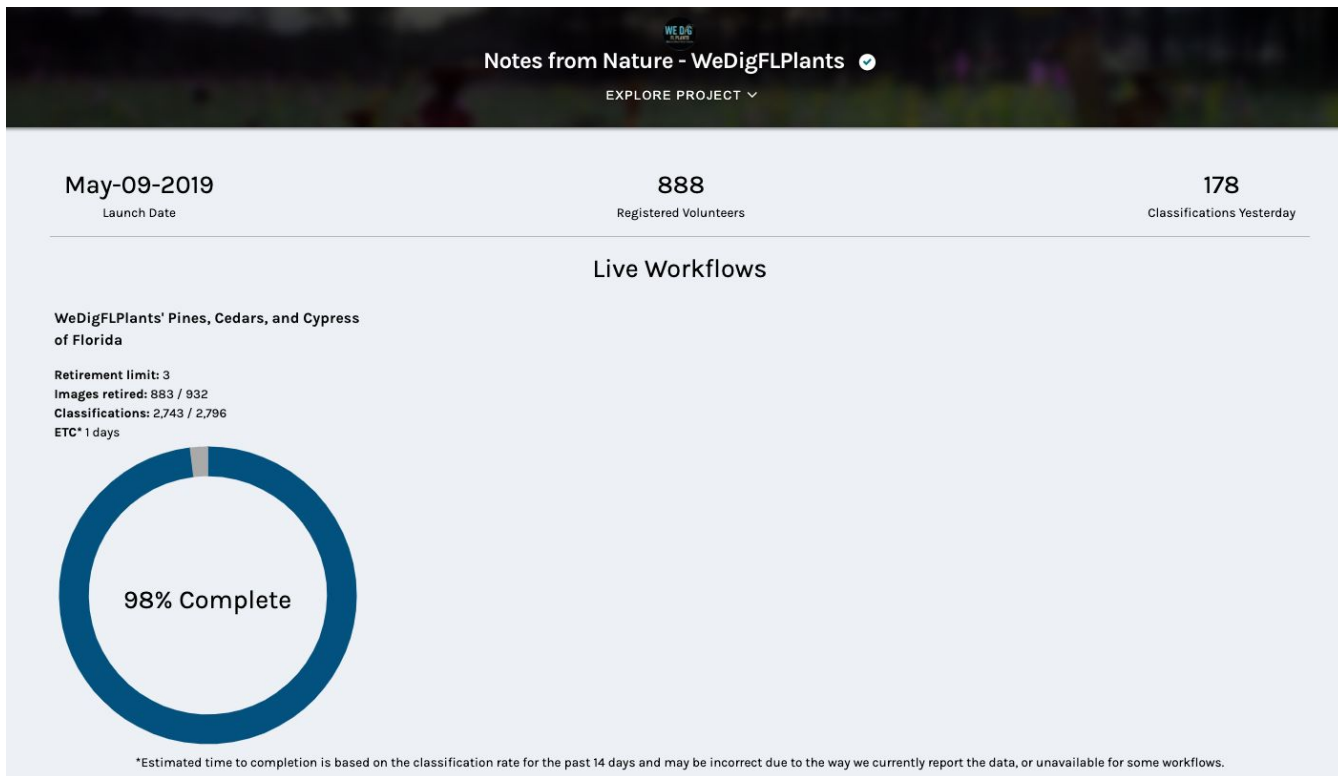


How does the cyberinfrastructure fit together?



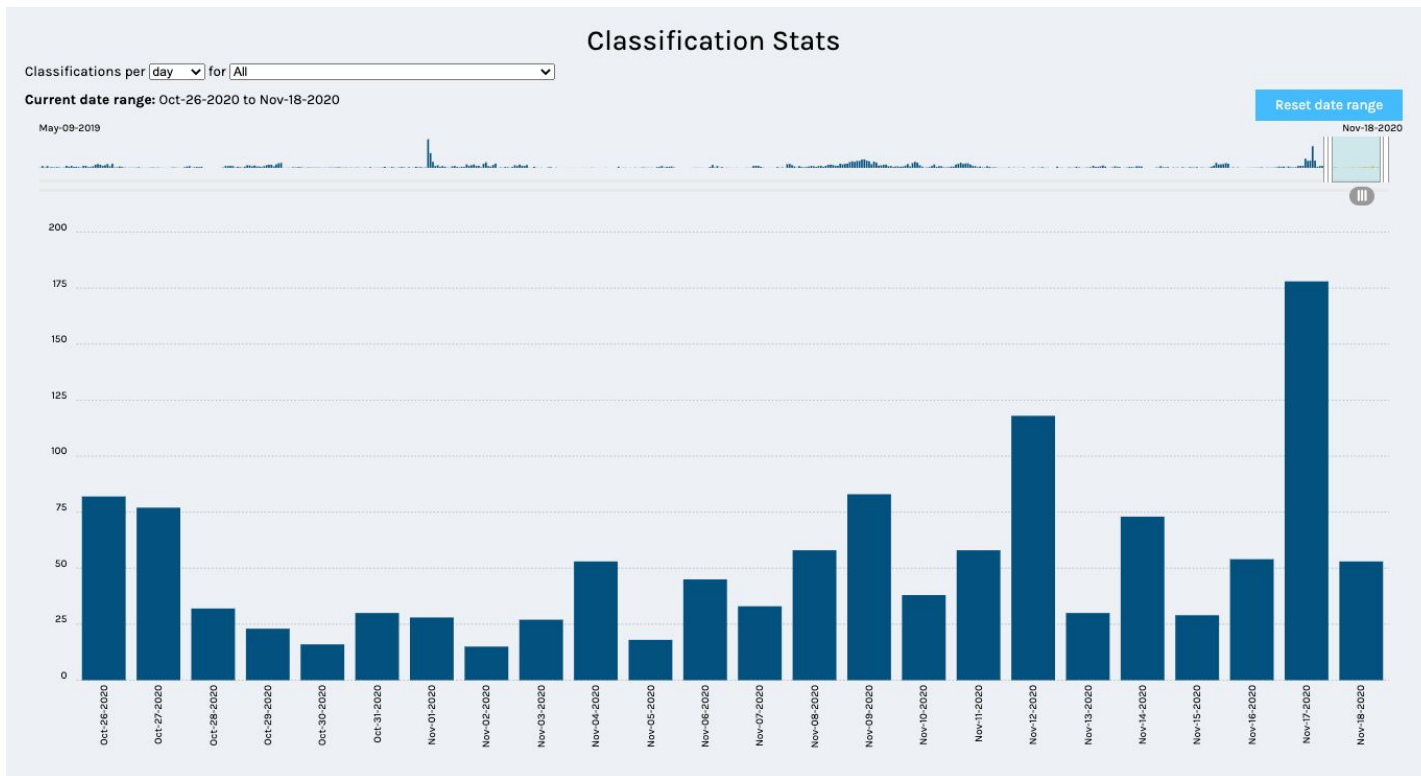


How does the cyberinfrastructure fit together?





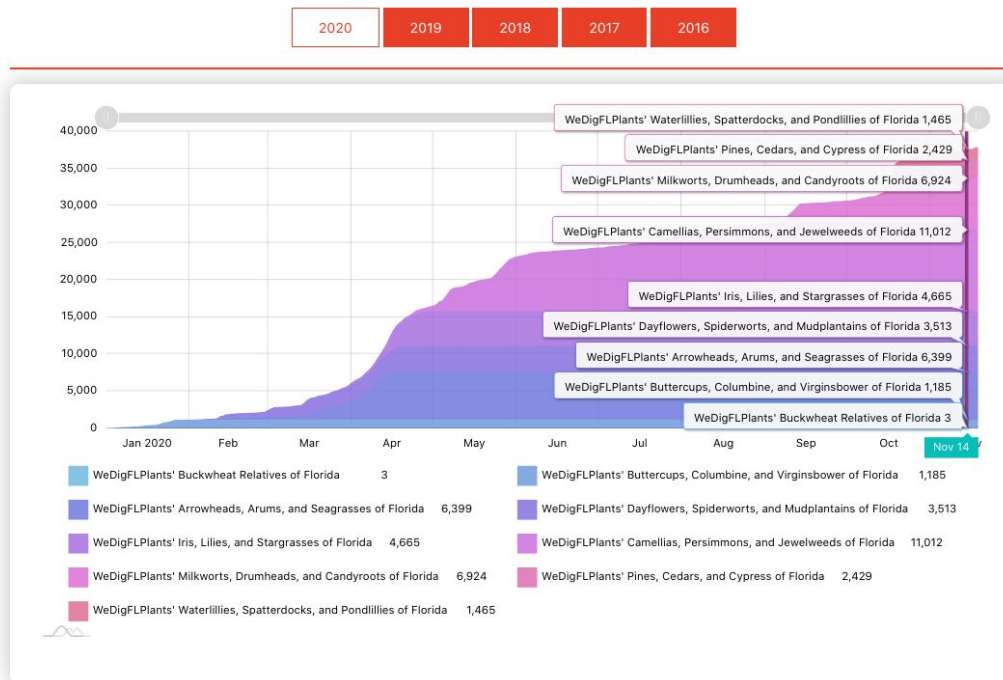
How does the cyberinfrastructure fit together?





How does the cyberinfrastructure fit together?

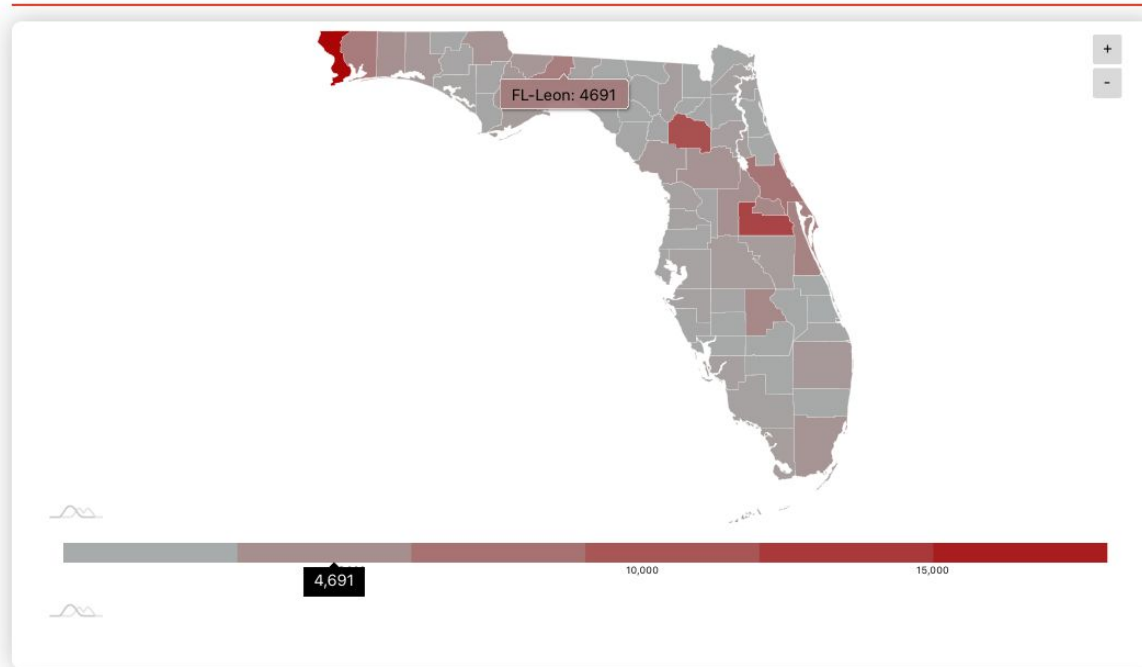
DIGITIZATIONS





How does the cyberinfrastructure fit together?

HEAT MAP DIGITIZED SPECIMENS





How does the cyberinfrastructure fit together?

Participant Summary

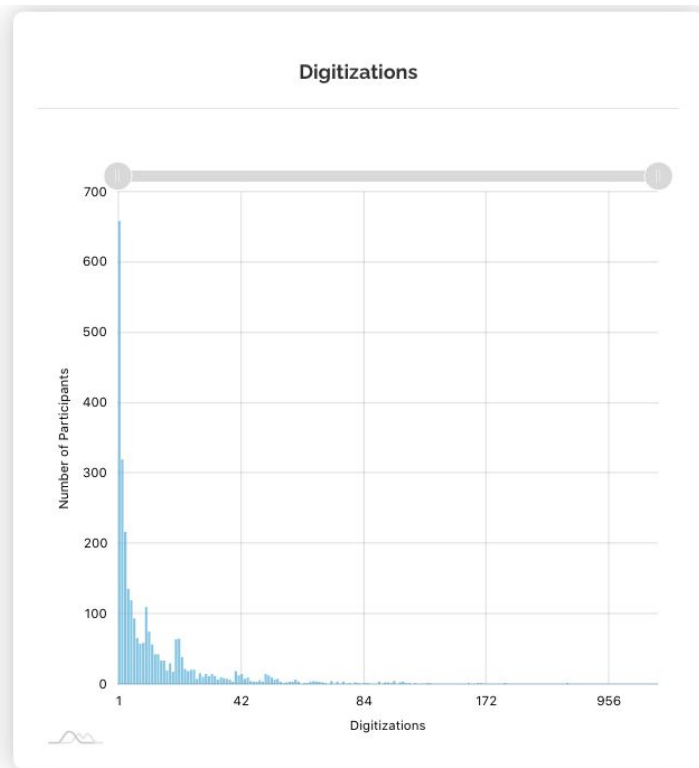
Use shift + click to multi-sort

Show entries Search:

User	Expeditions	Digitizations	Last Date
afaribach	27	40584	2020-09-14
amunson	39	19391	2020-11-18
WanTaoWanTao	31	12758	2020-11-17
Swan28	22	6532	2020-11-14
Unkowsky	16	4318	2019-06-17
ML_Savely	14	2760	2020-09-28
andreas	14	2438	2020-06-02
Blumen	13	2163	2020-10-24
shiragusa	25	1692	2020-11-08
margale	19	1424	2020-07-19

Showing 1 to 10 of 2,928 entries

Previous [1](#) [2](#) [3](#) [4](#) [5](#) ... [293](#) Next





How does the cyberinfrastructure fit together?








Expedition Downloads

Zooniverse

Expert Review Ambiguities

Regenerate Export File

✕

Download Type	Filename	File Size	Created	Updated	
export	2-4e840168-1409-4135-b19c-78ddf7423728.tar.gz	264.39MB	2020-10-12	2020-10-12	 
classification	308.csv	4.38MB	2020-10-15	2020-10-24	
transcript	308.csv	1.19MB	2020-10-15	2020-10-24	
reconcile	308.csv	335.71kB	2020-10-15	2020-10-24	
summary	308.html	4.06MB	2020-10-15	2020-10-24	 

Exit



How does the cyberinfrastructure fit together?








Expedition Downloads

Zooniverse

Expert Review Ambiguities

Regenerate Export File

✕

Download Type	Filename	File Size	Created	Updated		
export	2-4e840168-1409-4135-b19c-78ddf7423728.tar.gz	264.39MB	2020-10-12	2020-10-12		
classification	308.csv	4.38MB	2020-10-15	2020-10-24		
transcript	308.csv	1.19MB	2020-10-15	2020-10-24		
reconcile	308.csv	335.71kB	2020-10-15	2020-10-24		
summary	308.html	4.06MB	2020-10-15	2020-10-24		

Exit



How does the cyberinfrastructure fit together?

Reconciliation Detail


Filter Rows:

<input type="checkbox"/>	subject_id	classification_id	user_name	County	Location	Habitat & Description	Collected By	Collector Number	Month	Day	Year	subject_catalogNumber
<input type="checkbox"/>	50599982			Escambia		On campus of Univ of W Fla., side of Thompson's bayou ca 100 ft E of old wood boat dock at N end of old fishcamp road (NW of Bldg 58). Large-leaved form in water of bayou. With Potamogeton pulcher	J. R. Burkhalter, J. S. Ely	14408	10 - October	9	1994	UWFP013564
					No text match on 3 records with 0 blanks	Partial ratio match on 3 records with 0 blanks, score=99	Partial ratio match on 3 records with 0 blanks, score=96	Exact unanimous match, 3 of 3 records	Unanimous match, 3 of 3 records	Unanimous match, 3 of 3 records	Unanimous match, 3 of 3 records	
	280166500	acs20		Escambia	near Pensacola	On campus of Univ of W Fla., side of Thompson's bayou ca 100 ft E of old wood boat dock at N end of old fishcamp road (NW of Bldg 58). Large-leaved form in water of bayou. With Potamogeton pulcher	J. R. Burkhalter, J. S. Ely	14408	10 - October	9	1994	UWFP013564
	280355798	Suem28		Escambia	On campus on Univ of W Fla. N side of Thompson's Bayou ca 100 ft E of old wood boat dock at N end of old	Large-leaved form in water of bayou. With Potamogeton pulcher.	J. R. Burkhalter, J. S. Ely	14408	10 - October	9	1994	UWFP013564



How does the cyberinfrastructure fit together?

◀ 1 2 ... 10 11 12 13 14 15 16 ... 124 125 ▶



Location:

Fairbanks

Participants entered for
Location :

☐ Gainesville
☐ participant left blank
☐ Fairbanks.

PREVIOUS SAVE NEXT

Once you have submitted your expert opinion for each page, go to the last page and click "Publish Reconciled."




How does the cyberinfrastructure fit together?

Expedition Downloads ✕

Zooniverse

Expert Review Ambiguities

Regenerate Export File

Download Type	Filename	File Size	Created	Updated	
classification	270.csv	12.51MB	2020-04-18	2020-04-18	⬇
transcript	270.csv	8.79MB	2020-04-18	2020-04-21	⬇
reconcile	270.csv	2.36MB	2020-04-18	2020-04-18	⬇
summary	270.html	28.44MB	2020-04-18	2020-04-18	⬇ 
reconciled_with_expert_opinion	270.csv	2.39MB	2020-08-28	2020-08-28	⬇

Exit



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- **How are collections doing it?**
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 - Project Management
 - **Public Engagement**
 - **California Phenology Project**
 - WeDigFLPlants



Public Engagement

Growing your participant community can be challenging and time-intensive (but also rewarding)



Who might be interested in the **subject matter**, the **task**, or the **perks**?



CALIFORNIA
NATIVE PLANT SOCIETY





NOTESFROMNATURE.ORG

Notes from Nature - Capturing California's Flowers

ABOUT CLASSIFY TALK COLLECT NOTES FROM NATURE

HERBARIUM
LOS ANGELES STATE COLLEGE
OF APPLIED ARTS AND SCIENCES

Mimulus lewisii L.

Shrub, ascending herb to 1m, high. Stem
erect, at base. Flowers red-violet.

CALIFORNIA: Los Angeles Co. Mt. S. of Rio
San Gabriel, Whittier Narrows, disturbed
open area. Elev ca. 1000 ft. (garden escape)

Collected by: J. Thorne

NORTHERN CALIFORNIA BOTANISTS
MMVI

28:37 / 35:51

CC Settings Full Screen



Who might be interested in the **subject matter**, the **task**, or the **perks**?





Who might be interested in the **subject matter**, the **task**, or the **perks**?



AmeriCorps



Association of Environmental Professionals





How do we get new users involved?



How do we get new users involved? (some ideas)



How do we get new users involved? (some ideas)

- Online talks, presentations, and announcements
 - Long presentation example:
<https://www.youtube.com/watch?v=2sIQ4YKpg4Y>
 - Short announcement example (during the “Open Announcements” part of this program):
<http://www.sci.sdsu.edu/plants/sdbs/Meetings/2020-10/index.html>
- Digitization events



Want to **HELP SCIENCE**
study California **WILDFLOWERS?**

COME EARLY TO THE NEXT **CNPS-SLO CHAPTER**
MEETING AND **LEARN** ABOUT
HELPING CALIFORNIA HERBARIA USING
NOTES FROM NATURE

6:00 PM, THURSDAY, NOV. 7
SAN LUIS OBISPO VETS HALL
BRING A LAPTOP OR TABLET IF YOU CAN!

Capturingcaliforniasflowers.org
NotesFromNature.org



DO YOU DIG BIO?

Join the Hoover Herbarium for an international volunteer event, without even leaving campus!

Fisher Science Hall (33) Room 258

Friday, October 18, 2019

12:10 PM

1:10 PM

2:10 PM

3:10 PM

Stay as long as you'd like!

Games | Prizes

RSVP online at <https://tinyurl.com/wedigbio>

Space is limited!





This event has ended.



Sales Ended

Details

Help the Robert F. Hoover Herbarium make vital biodiversity data publicly available by transcribing plant specimen data

About this Event

Herbarium specimen (dried, pressed plant) data is critical to our understanding of plant life on Earth, but having these data locked away in cabinets greatly reduces their availability for research. The Robert F. Hoover Herbarium at Cal Poly is working toward creating digital images and specimen records for all 80,000 specimens in the collection. You can help! In this event, we will learn a little bit about the herbarium before diving into transcribing data from specimen images using Notes from Nature, a user-friendly online platform.

Date And Time

Sat, April 13, 2019
10:00 AM - 12:00 PM PDT
[Add to Calendar](#)

Location

Fisher Science Computer Lab, Room 33-258
1 Grand Ave
San Luis Obispo, CA 93407
[View Map](#)



This event has ended.



OCT
15

WeDigBio 2020 with the California Phenology Network: WeDigBio Happy Hour

by Robert F. Hoover Herbarium

[Follow](#)

Free



Sales Ended

[Details](#)

Help us "digitize" the plants of California online!

About this Event

Date And Time

Thu, October 15, 2020
7:00 PM - 9:00 PM PDT
[Add to Calendar](#)

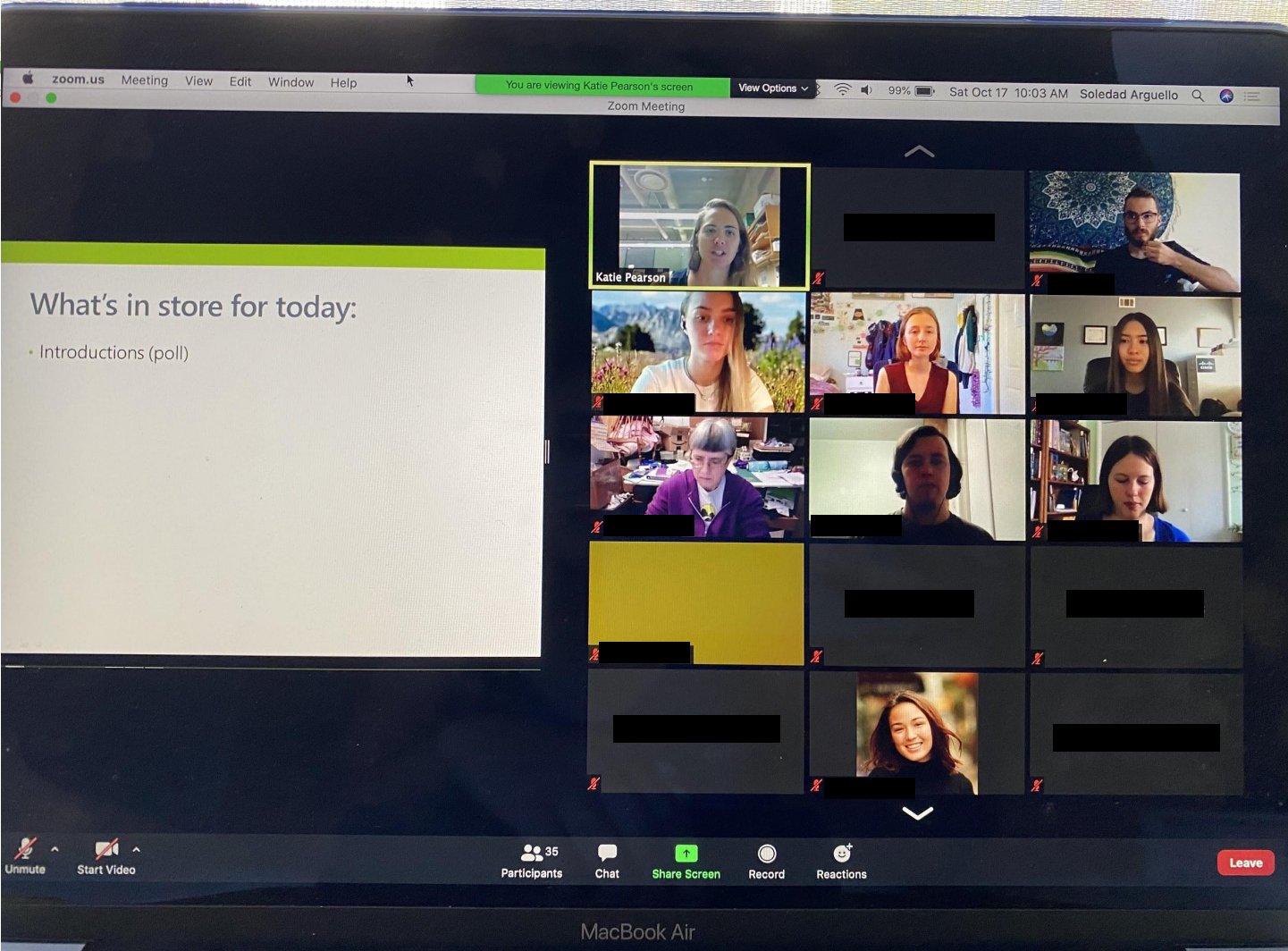
zoom.us Meeting View Edit Window Help You are viewing Katie Pearson's screen View Options 99% Sat Oct 17 10:03 AM Soledad Arguello

What's in store for today:

- Introductions (poll)

Participants: 35

Unmute Start Video Chat Share Screen Record Reactions Leave



The image shows a Zoom meeting interface on a MacBook Air. The top of the screen displays the Zoom application bar with the URL 'zoom.us', menu options (Meeting, View, Edit, Window, Help), a status bar indicating 'You are viewing Katie Pearson's screen', and system information (99% battery, Sat Oct 17 10:03 AM, Soledad Arguello). The main area is split into two sections. On the left, a presentation slide titled 'What's in store for today:' lists 'Introductions (poll)'. On the right, a grid of 12 video thumbnails shows participants. The top-left thumbnail is labeled 'Katie Pearson'. The bottom-right thumbnail shows a woman with long dark hair. The bottom of the screen features a toolbar with icons for Unmute, Start Video, Participants (35), Chat, Share Screen, Record, Reactions, and a red 'Leave' button. The MacBook Air logo is visible at the very bottom.



How do we get new users involved? (some ideas)

- Online talks, presentations, and announcements
 - Long presentation example:
<https://www.youtube.com/watch?v=2sIQ4YKpg4Y>
 - Short announcement example (during the “Open Announcements” part of this program):
<http://www.sci.sdsu.edu/plants/sdbs/Meetings/2020-10/index.html>
- Digitization events
- Stay engaged with new users
 - In Notes from Nature, via “Talk”

Notes from Nature - Capturing California's Flowers Talk

[Notes from Nature - Capturing California's Flowers Talk](#) > Notes

Search or enter a #tag



Notes

General comment threads about individual subjects

Unsubscribe

You're receiving notifications because you've subscribed to new discussions in this board (daily email)

Moderator Controls



Subject 51277337

1 Participant

am.zooni *12 hours ago* [#CalStLA4 expedition] The verbatim #date is "28 Feb. 1973 (flowers) 11
may_ 1 Comment



Subject 51277507

1 Participant

am.zooni *13 hours ago* [#CalStLA4 expedition] I selected Coconino #county, based on "Oak
Creek Can_ 1 Comment



I tried to find San Ysedro CA and found nothing. I live in San Diego County where there is San Ysidro CA. I'm guessing it was just a misspelling.

Helpful (0) Reply Link Report



themerekat

@kds15e

RESEARCHER

November 14th 2020, 1:23 pm

I'll bet it was a misspelling of San Ysidro! https://en.wikipedia.org/wiki/San_Ysidro,_San_Diego

Helpful (0) Reply Link Report Edit Delete



How do we get new users involved? (some ideas)

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- Digitization events
- Stay engaged with new users
 - In Notes from Nature, via “Talk”
- Celebrate “wins” and user contributions

<https://www.capturingcaliforniasflowers.org/blog-recap>

Your Help Matters: A Threatened Plant Discovery

4/17/2020

0 Comments

Notes from Nature volunteers may not have known it at the time, but while they transcribed the label of this small and unassuming plant specimen, they were documenting the occurrence of a rare, threatened species.

Phacelia mustelina, comically called "weasel phacelia" or more elegantly "Death Valley round-leaved phacelia" is an uncommon annual herb of eastern California and western Nevada. The **California Native Plant Society** ranks this species as rare, threatened, and endangered in California and elsewhere, and indeed, in our database (**CCH2.org**), only 39 herbarium specimens exist from the past 100+ years.



Author

This blog is curated by the project manager of the California Phenology Network, Katie Pearson.

Archives

[October 2020](#)

[September 2020](#)

[August 2020](#)

[July 2020](#)

[June 2020](#)

[May 2020](#)

Volunteers

We would not be able to reach our digitization goals without our hard-working and dedicated volunteers.





Outline

- Why engage the public in collections digitization?
- **How are collections doing it?**
 - Overview
 - Project Management
 - **Public Engagement**
 - California Phenology Project
 - **WeDigFLPlants**



What does public engagement look like for WeDigFLPlants?





What does public engagement look like for WeDigFLPlants?





What does public engagement look like for WeDigFLPlants?

Completed

FSU's WeDigFLPlants Digitization Blitz (Thurs)

THU, OCT 17, 2019 6:00 PM TO THU, OCT 17, 2019 9:00 PM AMERICA/NEW YORK
FOR
WEDIGFLPLANTS

SCOREBOARD RATE CHART

🔍 👁 🐦 🌐 ✉

Completed

UF Plant Taxonomy Class

THU, OCT 17, 2019 11:00 AM TO SUN, OCT 20, 2019 10:30 PM AMERICA/NEW YORK
FOR
WEDIGFLPLANTS

SCOREBOARD RATE CHART

🔍 👁 🐦 🌐 ✉

Completed

WeDigFLPlants @ FSU's Field Botany Course

THU, OCT 17, 2019 9:30 AM TO THU, OCT 17, 2019 10:45 AM AMERICA/NEW YORK
FOR
WEDIGFLPLANTS

SCOREBOARD RATE CHART

🔍 👁 🐦 🌐 ✉

Completed

WeDigFLPlants' Gators v Noles

THU, OCT 17, 2019 8:30 AM TO THU, OCT 17, 2019 11:00 AM AMERICA/NEW YORK
FOR
WEDIGFLPLANTS

SCOREBOARD RATE CHART

🔍 👁 🐦 🌐 ✉

Completed

WeDigFLPlants Team Challenge 2019

WED, OCT 16, 2019 6:00 AM TO MON, OCT 21, 2019 8:00 AM AMERICA/NEW YORK
FOR
WEDIGFLPLANTS

SCOREBOARD RATE CHART

🔍 👁 🐦 🌐 ✉

Completed

WeDigFLPlants Team Challenge 2018

WED, OCT 17, 2018 6:00 AM TO MON, OCT 22, 2018 6:00 AM AMERICA/NEW YORK
FOR
WEDIGFLPLANTS

SCOREBOARD RATE CHART

🔍 👁 🐦 🌐 ✉



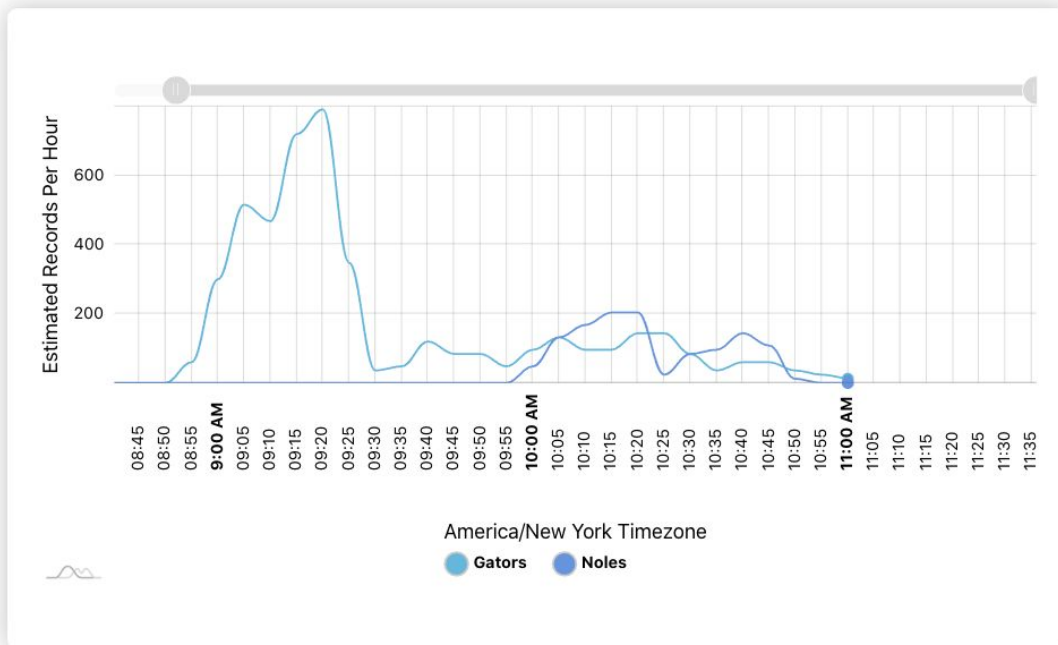
What does public engagement look like for WeDigFLPlants?





What does public engagement look like for WeDigFLPlants?

Rate Chart





What does public engagement look like for WeDigFLPlants?

HELP BEHIND-THE-SCENES AT A MUSEUM AS A CITIZEN SCIENTIST

Grades: 9-12

Aligned Standards

Florida State Standards

The Practice of Science: SC.912.N.1.4: Identify sources of information and assess their reliability according to the strict standards of scientific investigation.

A: Scientific inquiry is a multifaceted activity; The processes of science include the formulation of scientifically investigable questions, construction of investigations into those questions, the collection of appropriate data, the evaluation of the meaning of those data, and the communication of this evaluation.

Evaluation of digital information resources: SC.912.CS-PC.3.4: Analyze and evaluate public/government resources and describe how using these resources for communication can affect change.

Next Generation Science Standards


HS-PS4-2. Evaluate questions about the advantage of using digital transmission and storage information.

Summary

Students will learn about the importance of biodiversity research collections (specifically, herbaria), the types of data that their specimens hold, the process of digital data creation about the specimens, and the online publishers of that digital data. Students will act as citizen scientists and transcribe labels of plant specimens then explore the research value of the data that they create.



What does public engagement look like for WeDigFLPlants?

A Florida community type with an open overstory of pines and a characteristics shrub understory.			Scrub	Dry
Swamp	Flatwoods	Peaty	Lake	Bog
Creek	Open		Disturbed	Floodplain
Wet	Hammock	Edge	Loamy	Shaded
Forest	Ditch	Sandy	River	Pond





Acknowledgements

Notes from Nature, BIOSPEX, and WeDigFLPlants have involved many collaborators, such as Rob Guralnick, Michael Denslow, Julie Allen, and Rafe LaFrance (UF), Laura Trouille and Mark Bouslog (Zooniverse), and Robert Bruhn, Erica Krimmel, Greg Riccardi, Libby Ellwood, Katie Pearson, Jeremy Spinks, Monika Arora, Shiva Krishna Imminni, and Jillian Goodwin (Florida State University).

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References

Ellwood ER et al. 2018. Worldwide Engagement for Digitizing Biocollections (WeDigBio): The biocollections community's citizen-science space on the calendar. *BioScience* 62(2):112-124. doi:10.1093/biosci/bix143