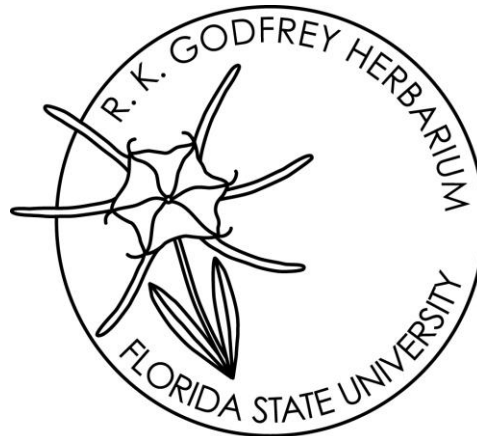


WeDigFLPlants—Innovative, place-based citizen science engagement to deepen public understanding of biodiversity data archives

Austin Mast

Professor, Biological Science, Florida State University

Director, FSU's Robert K. Godfrey Herbarium



The Science Challenge



iDigBio
Integrated Digitized Biocollections

About iDigBio | Research | Technical Information | Education
Log In | Sign Up

iDigBio Home | Portal Home | Search Records | Learning Center | Data | Research Collaboration | Feedback

Search Records

Help Reset

search all fields

Must have media Must have map point

Filters | Mapping | Sorting | Download

Add a field Clear

Present Missing

State: florida Present Missing

Family: Present Missing

Scientific Name: dwc:scientificName Present Missing

↓ Scroll To Bottom ↓

Record Density

- 1
- 3
- 9
- 30
- 93
- 291
- 907
- 2,823
- 8,786

Total: 503,803

List | Labels | **Media** | Recordsets

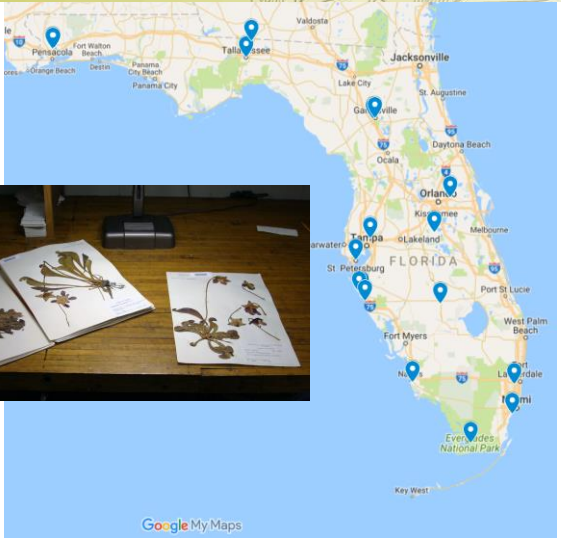
1 of 1
1 of 1
1 of 1
1 of 1
1 of 1

Abroma glauca FLAS
Abroma glauca (L.) Jacq. v.
Abroma glauca FLAS
Abroma glauca L. Vascular
Abroma glauca L. Vascular

Complete the historical baseline

SERNEC

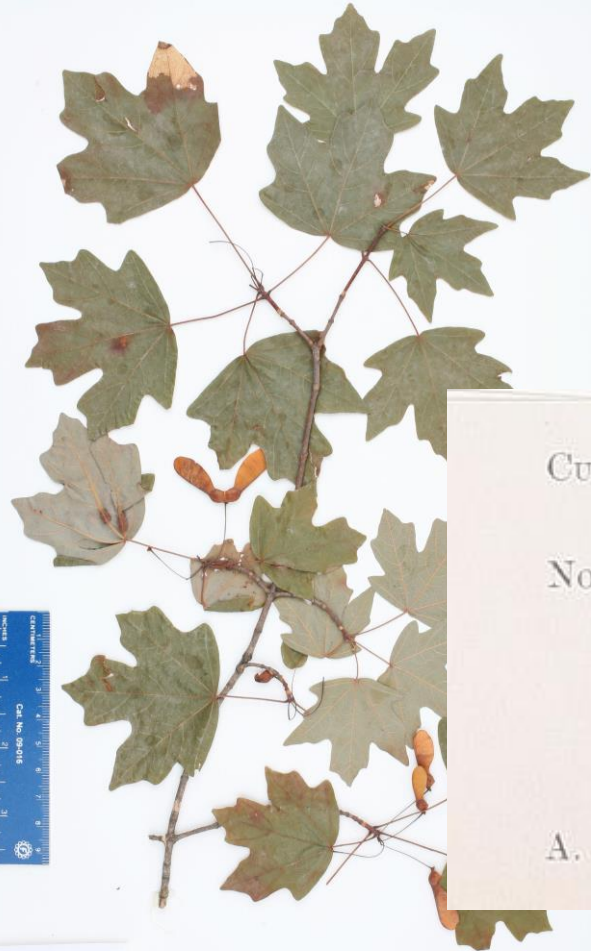
Southeast Regional Network of Expertise and Collections



Current & Prospective Science Partners

The E&O Opportunity

UNIVERSITY OF
SOUTH FLORIDA
HERBARIUM
210013



CURTISS' SECOND DISTRIBUTION OF PLANTS OF THE SOUTHERN
UNITED STATES. ¹⁶³

No. 5874.

Acer Floridanum, Chapm.

River bottom, River Junction, Florida.

A. H. CURTISS.

June 4, 1897.

Acer saccharum Marsh.
subsp. *floridanum* (Chapm.) Desmarais
Bruce F. Hamon
University of South Florida
1994
Can. J. Bot. 72

Curtiss' Second Distribution of Plants of the Southern
United States.
No. 5874
Acer Floridanum, Chapm.
River bottom, River Junction, Florida.
A. H. CURTISS. *June 4, 1897.*

Leverage the easily understood, deeply historical plant collecting process,



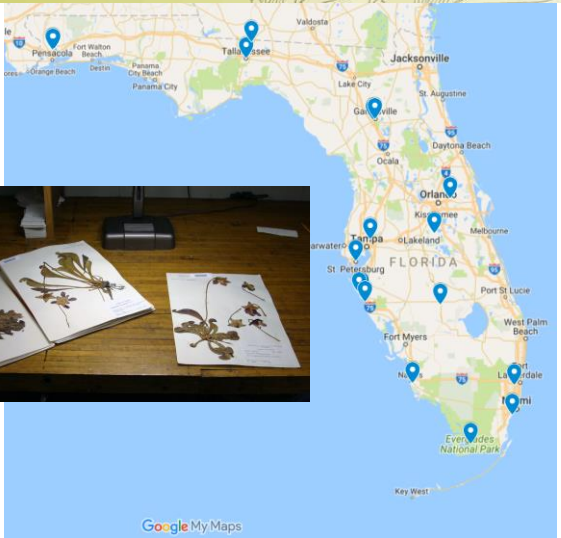
Leverage the easily understood, deeply historical plant collecting process, the visually compelling, data-laden specimens,



Leverage the easily understood, deeply historical plant collecting process, the visually compelling, data-laden specimens, and the straightforward specimen digitization activities to engage Florida residents and others in activities that further plant research, management, and conservation and their understanding of those science activities.

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FL Teachers



Current & Prospective E&O Partners

The Enabling Cyberinfrastructure

Notes from Nature

TRANSCRIBE MUSEUM RECORDS

Choose a Group and Start transcribing!



Plants

15

Expeditions



Bugs

3,905

Volunteers



Butterflies

320,399

Classifications



Magnified

116,943

Subjects



Fossils



NFN Labs

98,846

Completed

Why should you get involved?



To improve our world

Museum records contain historical biodiversity data. Scientists and researchers can use the data to conduct new research and make better conservation decisions.

Notes from the Researchers

"The digitized data you are creating will help advance research related to species extinction, ecosystem changes, environmental health and even human health."

Herbaria

COMPLETED EXPEDITIONS FOR HERBARIA



Arkansas Dendrology: Part I: Gymnosperms -- 16 September 2016 ⓘ
 Completed: August 7 2017
 231 subjects in 332 days



Primulaceae of the World: More than Primroses and Cowslips ⓘ
 Completed: July 20 2017
 3092 subjects in 276 days



Herbaceous Plants of the Ouachita Mountains ⓘ
 Completed: July 3 2017
 3934 subjects in 284 days



Host Plants of Virginia I ⓘ
 Completed: June 23 2017
 4469 subjects in 148 days



Amaranthaceae: Cosmopolitan Allrounder ⓘ
 Completed: June 18 2017



WeDigFLPlants' Spring-flowering Shrubs and Trees from the Florida Panhandle ⓘ



WeDigFLPlants' Blueberries of the Florida Peninsula ⓘ
 Completed: June 14 2017



Plants have all the anthers! Pt1 ⓘ
 Completed: June 2 2017



VISIT NOTES FROM NATURE

CLASSIFY

TALK

COLLECT

BLOG

FIELD BOOK



Location

Need some help with this task?

Habitat & Description

Need some help with this task?

Back

Next



Show the project tutorial



VISIT NOTES FROM NATURE

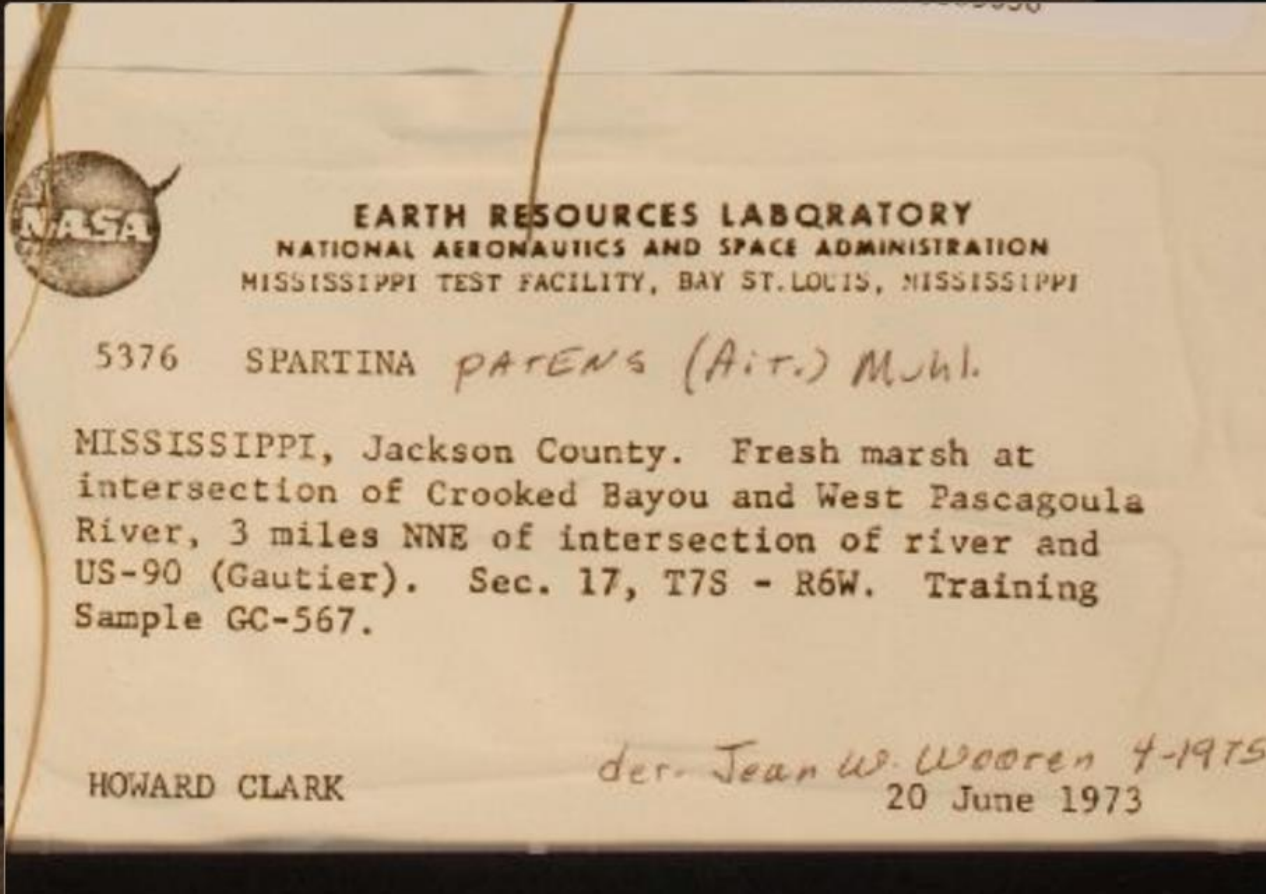
CLASSIFY

TALK

COLLECT

BLOG

FIELD BOOK



Location

Need some help with this task?

Habitat & Description

Need some help with this task?

Back

Next



Show the project tutorial



WeDigFLPlants

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

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 aggregators like idigbio.org and gbif.org makes it available to scientists, educators, natural resource managers, and policymakers addressing societal challenges today and in the future. Today, there are >4,700 species of plants native or naturalized in Florida. WeDigFLPlants is an inaugural interest group associated with the annual Worldwide Engagement for Digitizing Biocollections (WeDigBio) Event.

How to Participate

This project has the following active expeditions:

Organization

WeDigBio

Contact

[Austin Mast](#)

Contact Title

Chief Mobilizer

Organization Website

<http://wedigbio.org>

Project Partners

Florida Native Plant Society, The Southeastern Regional Network of Expertise and Collections, The Worldwide Engagement for Digitizing Biocollections (WeDigBio) Event, and iDigBio, the US National Resource for Advancing Digitization of Biodiversity Collections.

Funding Source

National Science Foundation under Cooperative Agreement EF-111520 and awards 1458550 and 1410288. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National

How to Participate

This project has the following active expeditions:

Expeditions	% Complete	Join In
WeDigFLPlants' Mints of Florida—More than Mojitos	100.00%	Notes From Nature V2
WeDigFLPlants' Laurels of Florida—Fight Laurel Wilt	100.00%	Notes From Nature V2
WeDigFLPlants' St. John's Worts of Florida—Diversity to Lift your Spirits	100.00%	Notes From Nature V2
WeDigFLPlants' Rose Gentians of Florida—Beauty from the Center of its Diversity	100.00%	Notes From Nature V2
WeDigFLPlants' Sunflowers of Florida—Florida's Biggest Plant Family	100.00%	Notes From Nature V2
WeDigFLPlants' Milkweeds of Florida—Monarch Butterfly Food Plants	100.00%	Notes From Nature V2
WeDigFLPlants' Legumes of Florida—Nitrogen-Fixers of the Peninsula	100.00%	Notes From Nature V2
Fall Flowers of Alachua County, Florida	100.00%	Notes From Nature V2
WeDigFLPlants' Euphorbs of Florida—Rubber Relatives of the Panhandle	98.62%	Notes From Nature V2
WeDigFLPlants' Dogwoods and Tupelos of the Florida Panhandle	100.00%	Notes From Nature V2
WeDigFLPlants' Spring-flowering Shrubs and Trees from the		Notes From

Funding Source

National Science Foundation under Cooperative Agreement EF-111520 and awards 1458550 and 1410288. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

Incentives

Contact Austin Mast for a thank-you WeDigFLPlants sticker (after 50 transcriptions) or WeDigFLPlants hat (after 200 transcriptions). Local WeDigFLPlants event organizers should contact Austin Mast to receive WeDigFLPlants stickers to hand out to participants at their event.

Geographic Scope

Florida, U.S.A.

Taxonomic Scope

Plants

Temporal Scope

1800–present

Language Skills Required

English and perhaps occasionally Spanish

Activities

Online transcription of herbarium specimen labels at Notes from Nature (notesfromnature.org)

Keywords

Florida, Plants, Biodiversity, Transcription

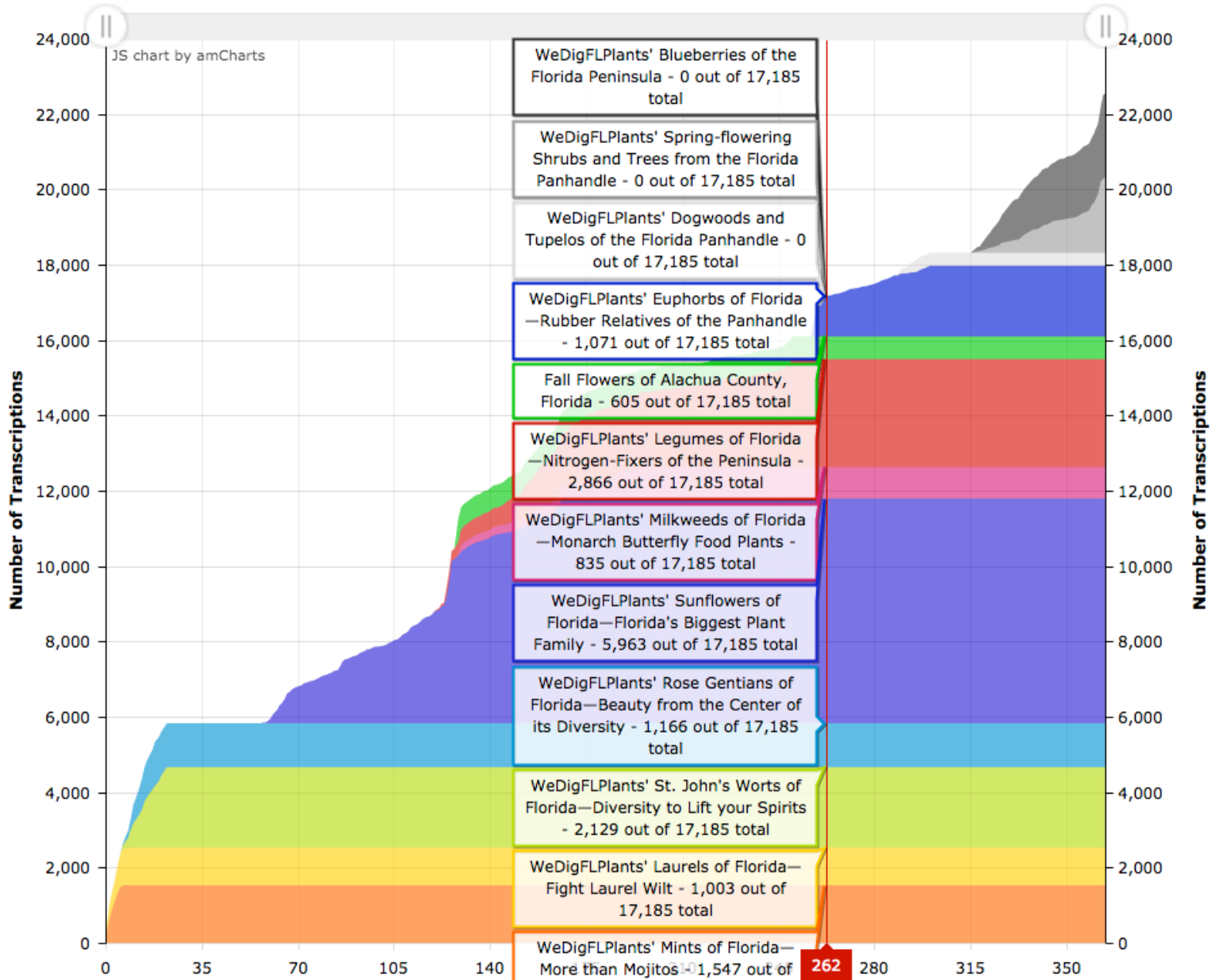
Twitter

<https://twitter.com/wedigflplants>

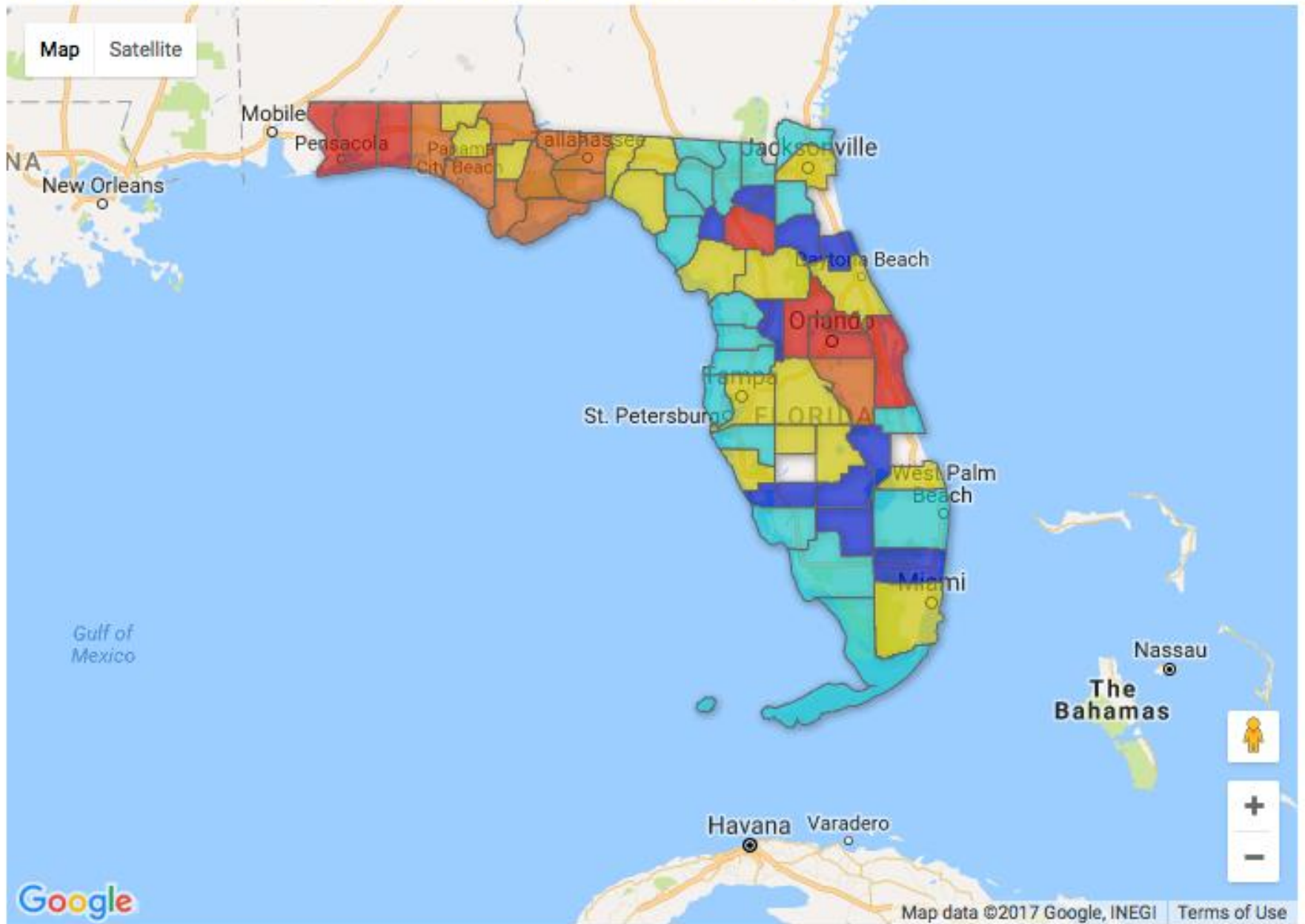
Project Resources

[Help Behind-the-Scenes at a Museum as a Citizen Scientist](#)
<http://www.cpalms.org/Public/PreviewResourceLesson/Preview/171734>
[WeDigFLPlants Sticker and Hat](#)

Cumulative Transcription Activity through Time



Heat Map of Collection Location of Transcribed Specimens



<https://biospex.org/project/wedigflplants>

WeDigFLPlants

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

+ Import Explore Clone Edit Delete

Reprocess Ocr

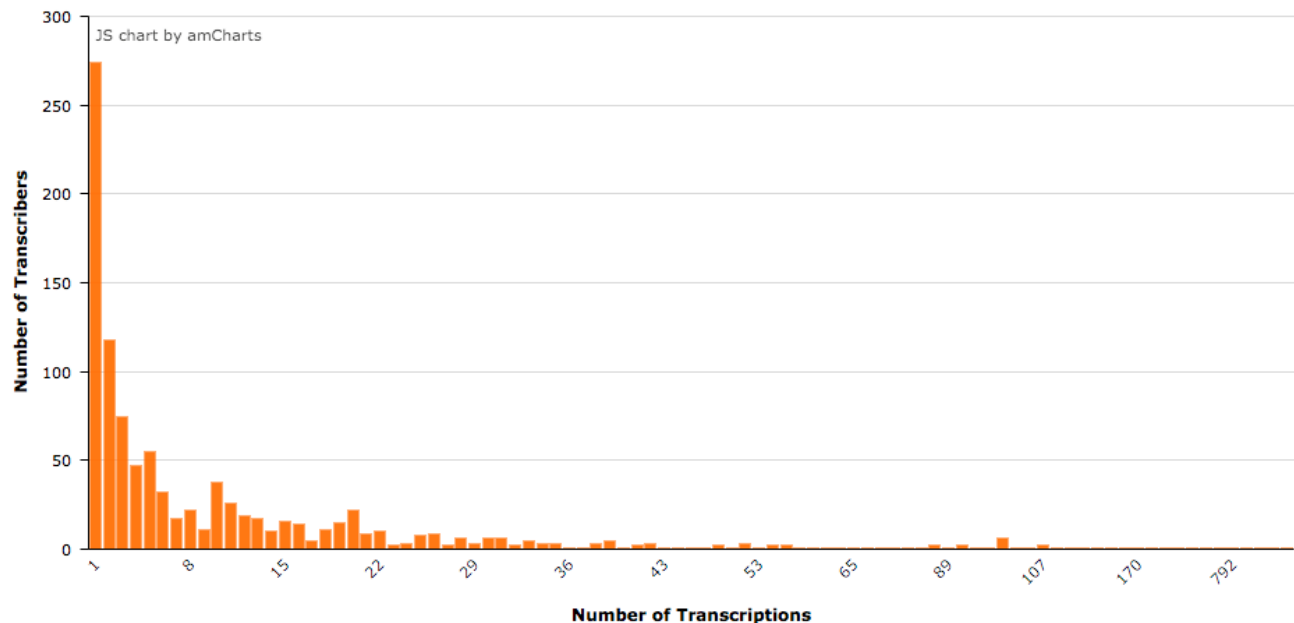
Advertise Statistics

Project Url : WeDigFLPlants

Transcriber Summary

am.zooni	2955
WimTemmerman	2503
Heikal	1116
PVerbeeck	916
snowysky	792
Viticulum	633
Mr._Kevvy	536
maggiej	529
JFK73	454
QuantumSpaceGoat	447
tinkapuppy	387
Aggie92	170
sedgequeen	164
JasmineR171	143
Audburrito	135
reddder	134
Caeden	126
Kathy.0101	118
ScienceFan1	107

Transcriptions per Transcriber



554 logged-in transcribers to-date with a median of 5 transcriptions (range=1–2955); 26 transcribers have contributed 100+ transcriptions.

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Current & Prospective Science Partners



Symbiota



iDigBio

Integrated Digitized Biocollections

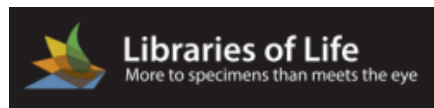
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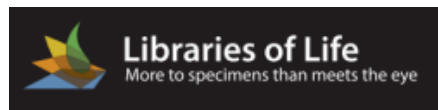


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2017 Workshop



Incentives

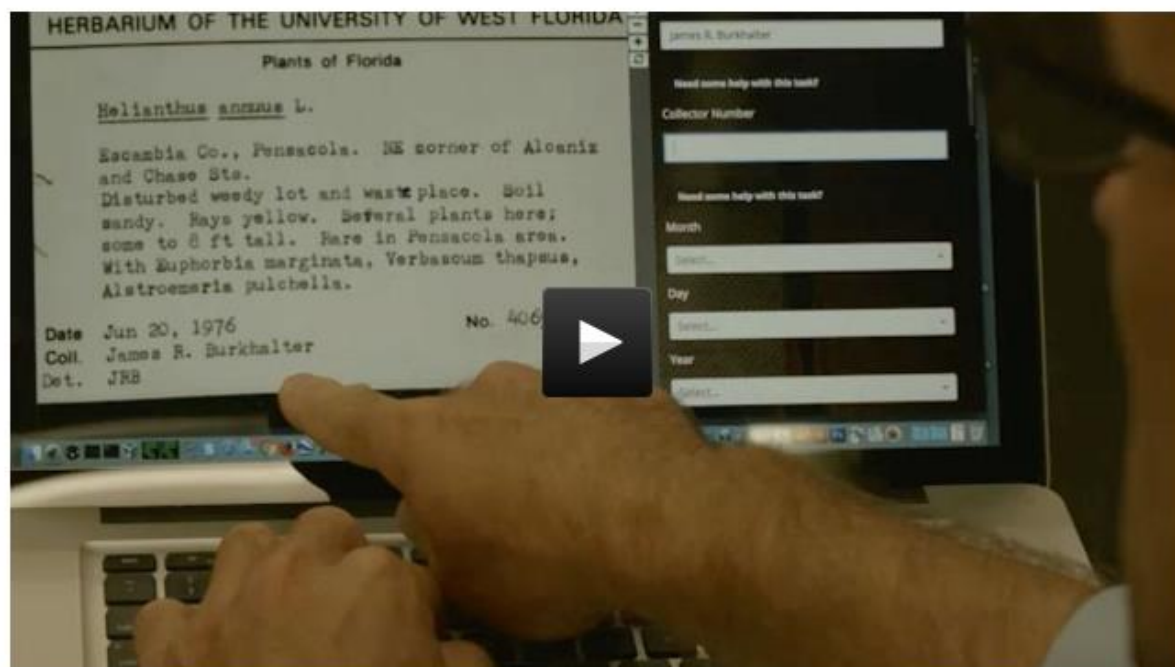


Formal education settings

Crowd-sourced Herbarium Data Transcription

Resource ID#: 166555 Primary Type: Perspectives Video: Teaching Idea

[Submit Feedback / Report Problems](#)



Listen closely as Dr. Austin Mast explains how students can help scientists by transcribing data from real herbarium plant samples.

Related Site: [Notes from Nature](#)

Export To... ▾



3

Aligned Standards

Other Resources Related to the Same Standards

Formal education settings

<http://www.cpalms.org/Public/PreviewResourcePrespectiveVideo/Preview/166555>

Help Behind-the-Scenes at a Museum as a Citizen Scientist

Resource ID#: 171734 Primary Type: Lesson Plan

Submit Feedback / Report Problems

Like It!

3 likes

Export To... ▾



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.

Subject(s): Science

Intended Audience: [Educators](#)

Keywords: Citizen Science, Biodiversity, Plants,

Herbarium, Conservation, Museum, Natural Resource Management

Instructional Design Framework(s): [Direct Instruction](#)

Grade Level(s): 9, 10, 11, 12

Suggested Technology: Computer for Presenter, Computers for Students, Internet Connection, LCD Projector

Instructional Component Type(s): [Lesson Plan](#),

[Worksheet](#), [Text Resource](#)

Resource Collection: [CPALMS](#)



Add Bookmark

Formal education settings

<http://www.cpalms.org/Public/PreviewResourceLesson/Preview/171734>



Informal education settings




Informal education settings

Your Name

MORPHOLOGY BINGO

Mark the word as you see it in the specimens you transcribe.

Leaf longer than broad	Red fruit	Grass-like leaf	Tendrils	Tiny flower
Egg-shaped leaf	Red petals	White petals	Lobed leaf	Opposite leaves
Leaf broader than long	Tiny leaf		Yellow petals	Bark
Triangular leaf	Tiny plant	Huge leaf	Huge flower	Roots
Toothed leaf margin	White fruit	Alternate leaves	T	



Smithsonian
National Museum of Natural History




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Your Name

HABITAT BINGO

Mark the word as you see it in the specimens you transcribe.

sandy	swamp	creek	hammock	mesic
scrub	open	peaty	floodplain	woods
pond	lake		roadside	shaded
flatwoods	disturbed	wet	bog	river
ditch	forest	edge	loamy	dry



Smithsonian
National Museum of Natural History



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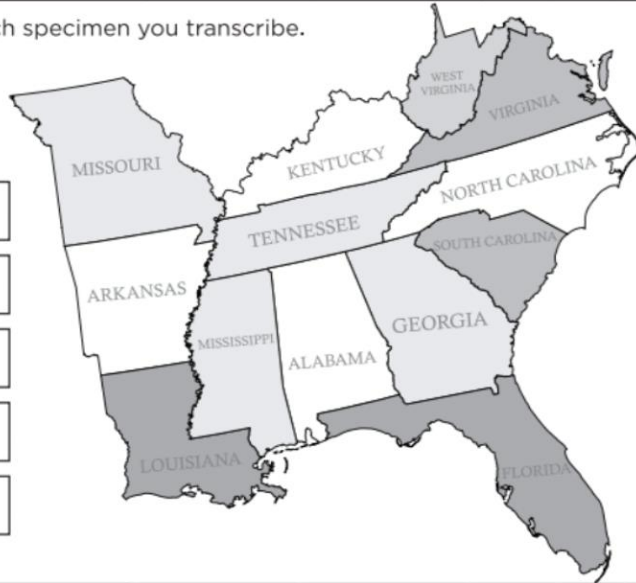


Your Name

GEO LOCATOR

Mark the collection location for each specimen you transcribe.

Other Locations



Smithsonian
National Museum of Natural History

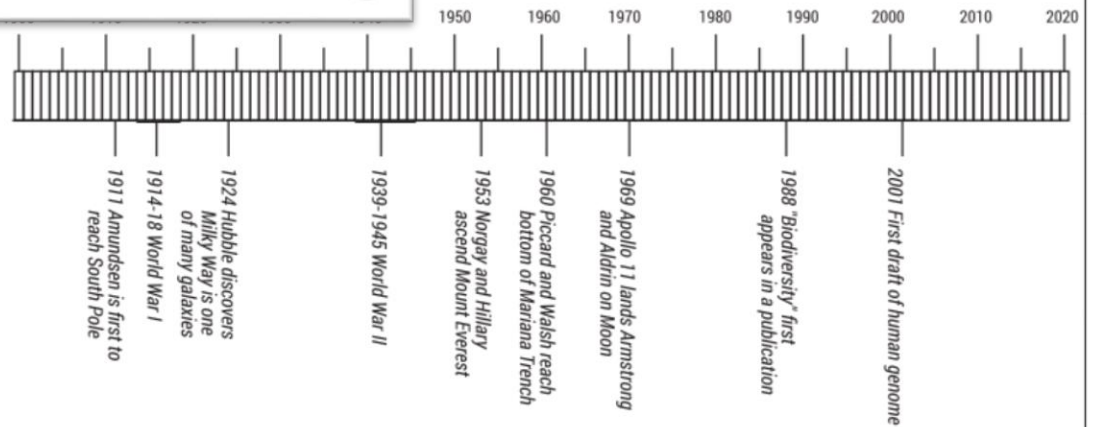


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TIMELINE TRACKER

specimen you transcribe.



Smithsonian
National Museum of Natural History



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FLORIDA STATE UNIVERSITY
HERBARIUM
www.herbartum.fsu.edu

Worldwide Entomology
WeDigBuo
Digitizing Biological Collections

Worldwide Entomology
WeDigBuo
Digitizing Biological Collections



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Florida Native Plant Society's Citizen Science Day

Register to contribute data to WeDigFLPlants on behalf of your FNPS Chapter.

Project: WeDigFLPlants

Start Date : Thu, Apr 12, 2018 8:00 PM America/New York
 End Date : Sun, Apr 15, 2018 8:00 PM America/New York

Transcriptions: 0

Group Invite Links

- [Longleaf Chapter](#)
- [Magnolia Chapter](#)
- [Sarracenia Chapter](#)
- [Sweetbay Chapter](#)

Project Url : [WeDigFLPlants](#)

- [Users](#)
- [Transcriptions](#)
- [Edit](#)
- [Delete](#)

Groups	Users	Transcriptions
Magnolia Chapter	Austinmast	0

Biospex.org support for events



Notes From
Nature V2



Notes From
Nature V2



Notes From
Nature V2



Notes From
Nature V2



Notes From
Nature V2



Notes From
Nature V2

Keywords

Florida, Plants, Biodiversity, Transcription

Twitter

<https://twitter.com/wedigflplants>

Events

Florida Native Plant Society's Citizen Science Day

Groups	% of Total Transcriptions	Count
Magnolia Chapter		0
Sarracenia Chapter		0
Sweetbay Chapter		0
Longleaf Chapter		0
Total Transcriptions		0

Biospex.org enables classrooms to work with data
they just created

TALLAHASSEE, FL

AARP Events

[About AARP in Tallahassee](#) · [Happenings](#) · [Events](#) · [Things to Do](#) · [Local Services](#) · [Change City](#)

AARP FL, Boomer Academy Workshop: Citizen Scientists, Tallahassee, FL, 9/23/17

Saturday, Sep 23, 2017


From 9:30am to 11am

Hopkins Eatery (Market Square)

1415 Market Street

Tallahassee, FL 32308

 Phone: 877-926-8300

 Contact: AARP FL

 Email: LSpencer@aarp.org

Event is closed or full.



Tailored appeals

Clone it for your interest group

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GEOLocate



Symbiota

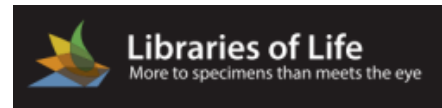


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Acknowledgements

WeDigFLPlants is a large collaboration, but I want to especially thank Libby Ellwood (La Brea Tarpits), Jillian Goodwin (FSU), Katelin Pearson (FSU), Joel Timyan (FNPS), Norris Williams (UF), Sean Kennedy (FSU), Rob Guralnick (UF), Michael Denslow (UF), Molly Phillips (UF), Richard Carter (Valdosta), Zack Murrell (Appalachian State), and Larry Page (UF). Biospex is cyberinfrastructure developed by Austin Mast, Greg Riccardi, Robert Bruhn, Libby Ellwood, Sean Kennedy, and Jillian Goodwin at Florida State University.

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