

# Consortium of Northeastern Herbaria (CNH) Portal Advancement Campaign

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Office Hours - March 12, 2026



**iDigBio**  
Integrated Digitized Biocollections



# Introductions

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Questions and comments welcome!  
(use chat and/or raise your Zoom hand)

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# Agenda

1. Refresher: what/who are iDigBio and the Symbiota Support Hub?
2. Portal Advancement Campaign: goals and schedule
3. Portal history, stats, and activity
4. Resources and services available
5. Portal housekeeping
6. Upcoming items
7. Questions & discussion

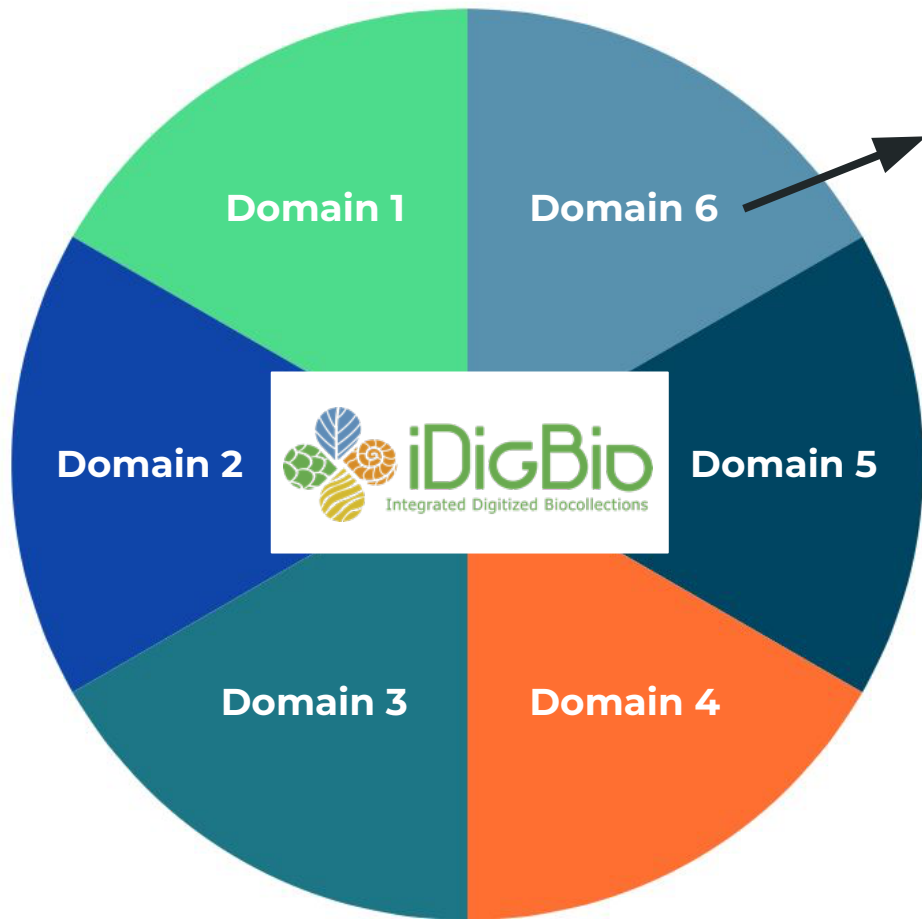
# Agenda

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# Who are iDigBio & the Symbiota Support Hub?



- National Resource for Advancing Digitization of Biodiversity Collections (ADBC) funded by the National Science Foundation
- 1st NSF grant 2011-2016, 2nd grant 2016-2022, **3rd grant 2021-2026 (sustaining)**



# Symbiota Support Hub (SSH) Mission



- **Help Desk support** for portal data access, publication, sharing, and management.
- Scalable development, management, and dissemination of **documentation** for all categories of Symbiota users.
- Hosting **webinars, trainings, and workshops** to improve community capacity.
- Implementation of a **sustainable business plan** for Symbiota portal communities.

[help@symbiota.org](mailto:help@symbiota.org)

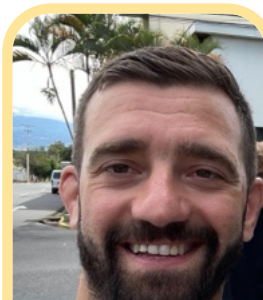
# Symbiota Support Hub Team



**Nico Franz**  
Management @ KU



**Ed Gilbert**  
Development & IT Lead



**Mark Fisher**  
Software Developer



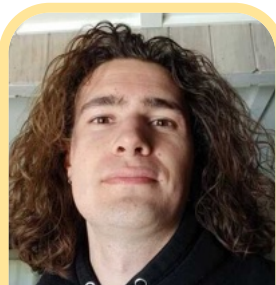
**Katie Pearson**  
Project & Data Manager



**Samanta Orellana**  
Community Coordinator  
for Latin America



**Lindsay Walker**  
Community Manager



**Logan Wilt**  
Software Developer



**Greg Post**  
IT & Systems Admin



**Nikita Salikov**  
Software Developer



**Skylar Franz**  
Undergraduate  
Software Engineer



**Jenn Yost**  
Community Lead

SSH is here to **support**  
existing communities  
and managers, not  
replace them.



# Agenda

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# Portal Advancement Campaign: Goals

- **Improve data quality, accessibility, and mobilization**
  - Ensure metadata is up to date
  - Provide data cleaning services
  - Offer data publishing assistance

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  - Ensure metadata is up to date
  - Provide data cleaning services
  - Offer data publishing assistance
- **Build capacity in portal community**
  - Training and improved documentation
  - Troubleshooting to overcome current roadblocks
  - Incorporation of data from collections not currently in the portal

# Portal Advancement Campaign: Goals

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  - Ensure metadata is up to date
  - Provide data cleaning services
  - Offer data publishing assistance
- Build capacity in portal community
  - Training and improved documentation
  - Troubleshooting to overcome current roadblocks
  - Incorporation of data from collections not currently in the portal
- **Discuss next steps**
  - Identify and incorporate portal improvements or desired modules
  - Identify current needs and potential avenues for future support from SSH and your portal managers

# Portal Advancement Campaign: Schedule

- **March 12:** Campaign introduction and housekeeping
  - Intro to the campaign
  - General housekeeping
- **March 19:** Data quality issues and data cleaning
  - Demo data cleaning tools
  - Questions about batch cleaning options and Darwin Core alignment
- **March 26:** Data mobilization from Symbiota to GBIF
  - Why and how to publish to GBIF
  - GRSciColl & Index Herbariorum
- **April 2:** Wrap-up and next steps
  - Wish list: tally of tools that could be developed by future grants
  - Community discussion & sustainability planning

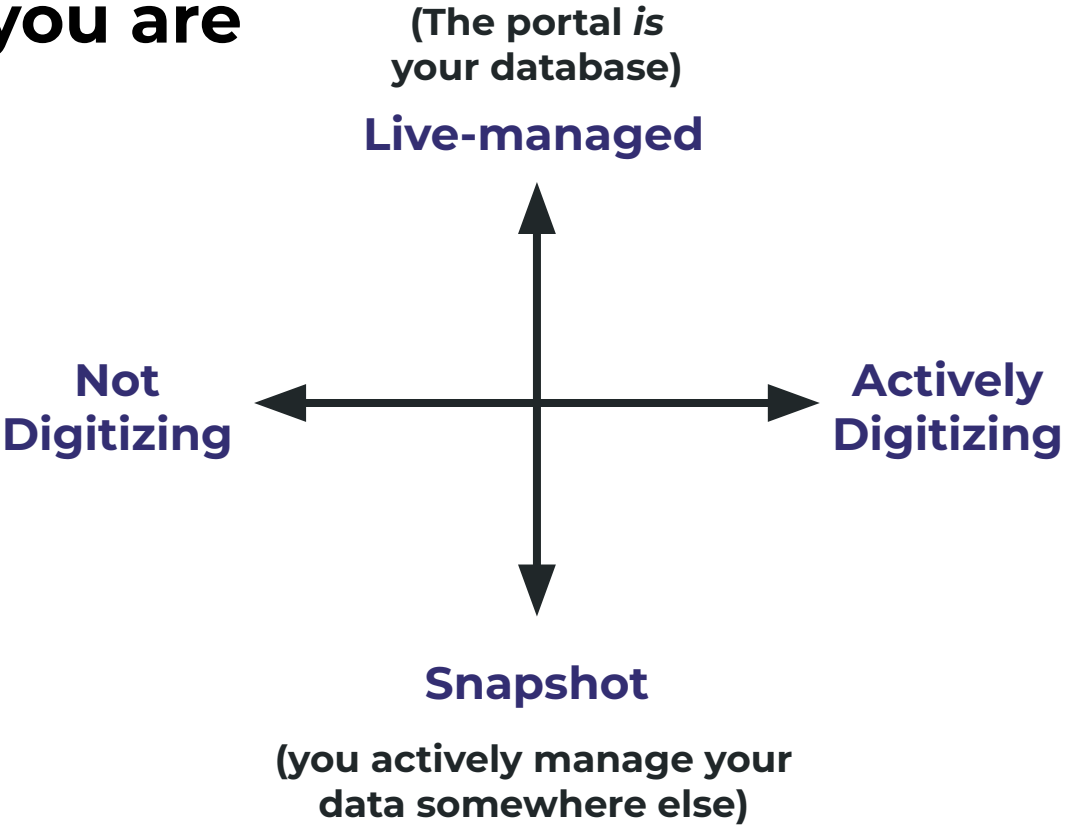
**Thursdays**  
at  
**2p Eastern**

Each  
meeting  
scheduled  
for **1 hour**

# What we need from you:

- Ideas
  - Feedback
  - Interact with us as much as possible
  - Take a look at your collection and give it a little extra attention this month
  - Let us know how we can help
  - Respond to our emails with questions
-

# We can help wherever you are



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### Portal History

- 2008 - CNH formed
- 2011 - Symbiota portal est. (YU)
- 2012-2017 - NSF TCN NEVP
  - CyVerse/iPlant image hosting
- 2019 - Portal moves to ASU
- 2021 - SSH formed
- 2023 - SSH image (iPlant) hosting
- 2026 - SSH/CNH portal campaign



**CNH**

**Consortium of Northeastern Herbaria**

**Next month:**



*A forum for current research  
April 17–19, 2026*

*Doubletree by Hilton Hotel, Burlington, VT*

**Session:**

*The Consortium of Northeast Herbaria (CNH):  
Advancing Collaboration, Digitization, Biodiversity Research and Conservation for Nearly 20 Years.*

- **63 collections**
  - 26 live managed
  - 37 snapshots
- **2,518,438 occurrences**
  - 1,877,131 with images
  - 1,032,208 georeferenced
  - 251,671 type specimens



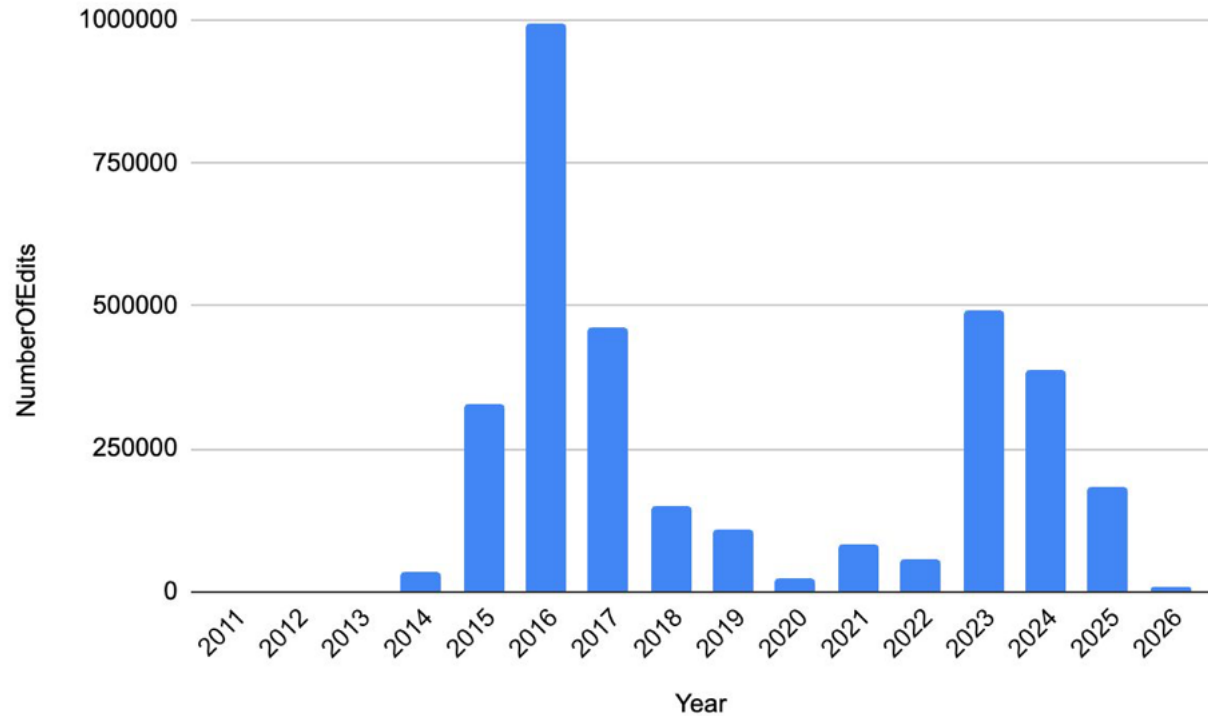
**39%**  
**publishing**  
**to GBIF**

(Stats as of Feb 2026)

# CNH

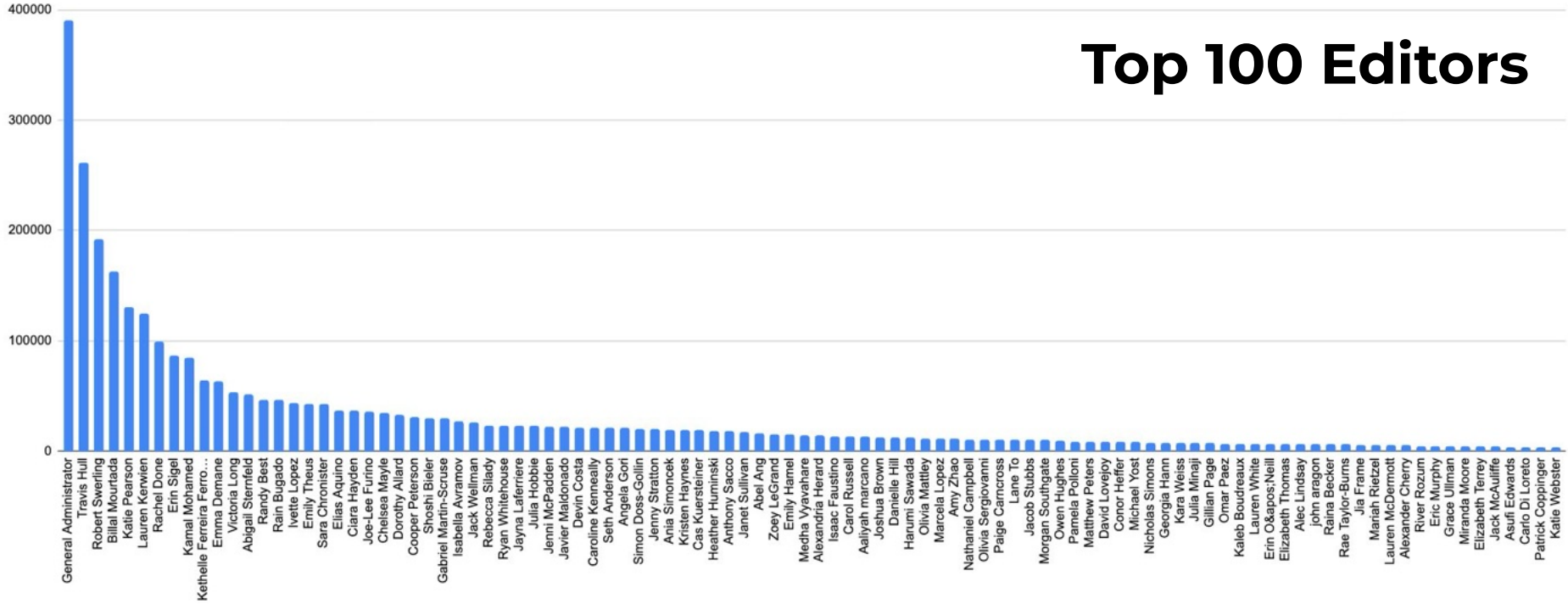
## Consortium of Northeastern Herbaria

### Edits Through Time





### Top 100 Editors



# Current Contributors

Adirondack Mountain Club  
Audubon Society of Rhode Island  
Bartlett Arboretum  
Boston University  
Brooklyn Botanic Garden  
Brown University  
Canadian Museum of Nature  
Central Connecticut State University  
CGCC Natural History Museum  
Coastal Maine Botanical Gardens  
College of the Atlantic  
Connecticut College  
Edmund Niles Huyck Preserve  
Fairbanks Museum and Planetarium  
Fordham University  
Harvard  
Highstead Arboretum  
Lehigh University  
Mount Holyoke College

Native Plant Trust  
New York State Museum  
Peabody Essex Museum  
Phineas S. Newton Library  
Royal Botanical Gardens  
Saint Anselm College  
State University of New York, Brockport  
State University of New York, Oneonta  
The College of New Jersey  
The Nantucket Maria Mitchell Association  
The Polly Hill Arboretum  
University of Maine  
University of Maine at Presque Isle  
University of Massachusetts, Amherst  
Vassar College  
Western Connecticut State University  
Westfield State University  
Wilton Garden Club  
Woods Hole Oceanographic Institution  
Yale Peabody Museum of Natural History

# Potential contributors?

- **Suggestions are welcome!**
  - <https://bit.ly/new-portal-contributors>

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## Home (About)

Collector/Observer Guide &gt;

User Guide &gt;

Editor Guide ✓

Joining an Existing Portal &gt;

Adding Records &gt;

Collection Statistics &gt;

Crowdsourcing &gt;

Data Quality Toolkit &gt;

Downloading Data &gt;

Editing &amp; Searching Records ✓

Symbiota Data Fields

Alphabetically Sorted Index of Symbiota Data Fields

Annotations / Determinations

Catalog Numbers

Duplicate Matching

Fossil Specimen Data

Material Samples

OCR

Home &gt; Home (About)

Version: 3.4

# Welcome to Symbiota Docs!

## ! INFO

**Symbiota** is an open-source software for managing and mobilizing biodiversity data that serves over 2,000 natural history collections and over 95 million occurrence (specimen or observation) records. Visit [Symbiota.org](https://www.symbiota.org) to learn more. The central code for this version of Symbiota can be found in [GitHub](https://github.com/Symbiota).

**Symbiota Docs** is a central repository for documentation regarding Symbiota-based data portals. This site is maintained by the Symbiota Support Hub, but all Symbiota users may contribute. [Contact Us](#) to contribute or provide feedback on this site.

Symbiota portals are used by thousands of collectors, researchers, collection managers, curators, students, land managers, educators, and others. Symbiota Docs is organized according to the different permissions levels that are available to users of Symbiota portals. In the left-hand menu, you can navigate between the following guides:

- **[Collector/Observer Guide](#)**: This guide describes how collectors of data and/or specimens can add records to a Symbiota portal's Personal Observations Profile collection. Editors of Personal Observation Profiles need not be affiliated with any particular institution or collection represented in the portal.
- **[User Guide](#)**: This guide describes how to use tools and functions that any member of the public can access. Use this guide if you would like to create checklists, search or map records, download data, or use other research and educational tools in Symbiota portals.
- **[Editor Guide](#)**: This guide contains instructions for users with Editor permissions for a collection in a Symbiota site.

docs.symbiota.org

# YouTube Channel

[bit.ly/symbiota-recordings](https://bit.ly/symbiota-recordings)

## Symbiota



@symbiota276 · 321 subscribers · 95 videos

Symbiota is a content management system and tool for biodiversity data mobilization and...more

[symbiota.org](https://symbiota.org) and 2 more links

Subscribe

Home Videos **Playlists**

Sort by

2 videos

**Research Applications**  
View full playlist

Symbiota June 7, 2022  
15 videos

**SSH Presentations**  
View full playlist

3 videos

**Specimen Labels in Symbiota**  
View full playlist

1 video

**Symbiota (Español)**  
View full playlist

4 videos

**Publishing Datasets from Symbiota**  
View full playlist

Any materials  
you'd like to  
add?

**Let us know!**

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# Campaign Docs

[symbiota.org/cnh-portal-campaign](https://symbiota.org/cnh-portal-campaign)



The screenshot shows the Symbiota website's navigation bar with links for Home, Symbiota Portals, Events, Resources, The Code, What's New, Donate, and Contact. The main heading is "CNH Portal Campaign". Below it is a banner for the Consortium of Northeastern Herbaria (CNH) featuring a leaf illustration. The text below the banner states that in March and April 2026, the CNH will collaborate with the Symbiota Support Hub to grow and advance the portal community. Meetings will be held on Thursdays at 2 PM Eastern time, and users are invited to register.

**Symbiota** Home Symbiota Portals Events Resources The Code What's New Donate Contact

## CNH Portal Campaign

**CNH**  
Consortium of Northeastern Herbaria

In March and April 2026, the [Consortium of Northeastern Herbaria \(CNH\)](#) will collaborate with the Symbiota Support Hub to grow and advance this portal community. Meetings will be held on **Thursdays at 2 PM Eastern time**. To participate, please register:

[REGISTER HERE](#)

# Symbiota Discussions

Discussions tutorial:  
[symbiota.org/symbiota-discussions](https://symbiota.org/symbiota-discussions)

[github.com/Symbiota/  
community-board/discussions](https://github.com/Symbiota/community-board/discussions)

**Categories**

- View all discussions
- Announcements
- Funding
- General
- Polls
- Problems/Bugs
- Q&A
- Show and tell
- Wish List**

**Wish List**  
Share ideas for new features and tools

**Allow wildcard searching on catalog numbers on public search form**  
needs funding data discoverability  
ljwalker started last week in [Wish List](#)

**Enhance existing functionality to bulk ingest genetic resource data**  
needs funding Extended Specimen  
ljwalker started 2 days ago in [Wish List](#)

**Add dwc:georeferencedDate to user interface**  
data standards georeferencing  
ljwalker started 4 days ago in [Wish List](#)

**Implement KML Upload options for polygon searching**  
maps data discoverability  
ljwalker started 2 weeks ago in [Wish List](#)

**Enable sorting on Alternative Identifiers (otherCatalogNumbers)**

**Most helpful** Last 30 days

ljwalker 1

[Community guidelines](#)

# Help Desk Support

- Contact the Symbiota Support Hub at [help@symbiota.org](mailto:help@symbiota.org)



Review your tickets at  
[help.symbiota.org](https://help.symbiota.org)

# Help Desk Support

- Contact the Symbiota Support Hub at [help@symbiota.org](mailto:help@symbiota.org)

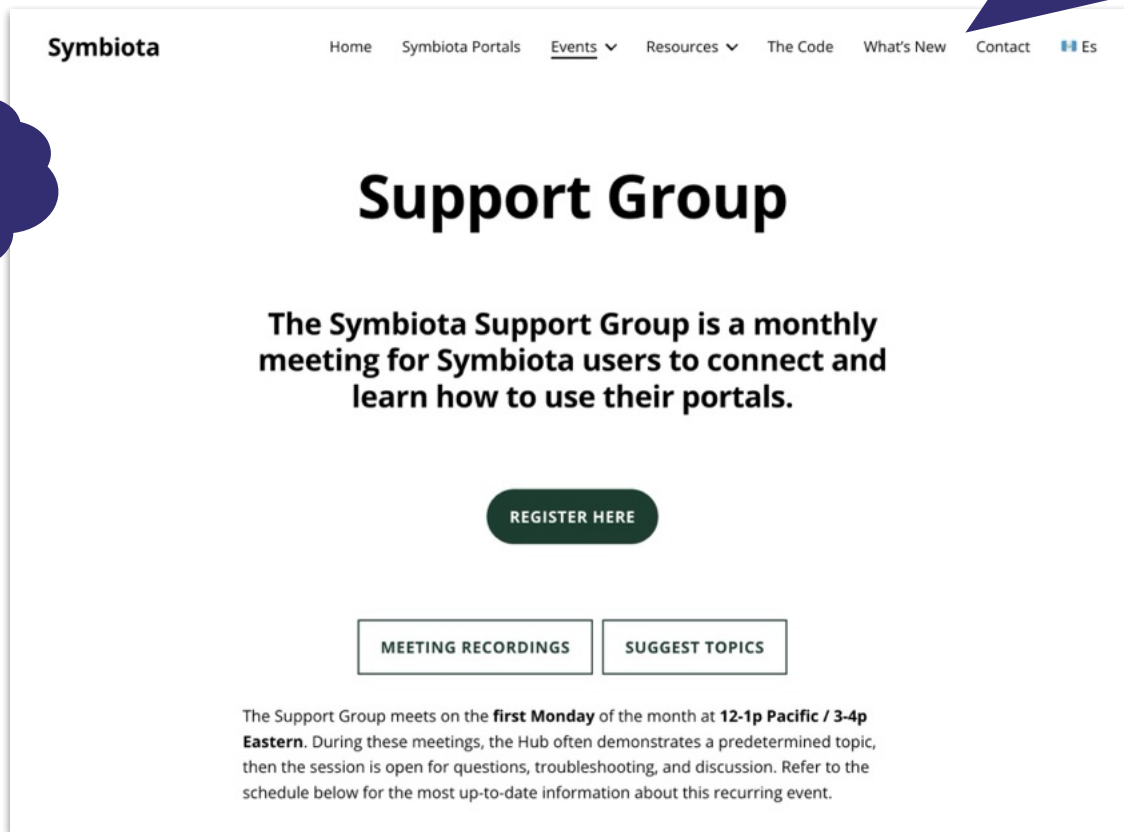


Quick links to all resources are on our website:  
[symbiota.org/help-resources](https://symbiota.org/help-resources)

# Monthly Support Meetings

[symbiota.org/  
symbiota-support-group](https://symbiota.org/symbiota-support-group)

1st  
Mondays



The screenshot shows the Symbiota website's 'Support Group' page. The navigation bar at the top includes 'Home', 'Symbiota Portals', 'Events', 'Resources', 'The Code', 'What's New', 'Contact', and 'Es'. The main heading is 'Support Group'. Below it, a paragraph states: 'The Symbiota Support Group is a monthly meeting for Symbiota users to connect and learn how to use their portals.' A dark green button labeled 'REGISTER HERE' is centered below the text. At the bottom, there are two white buttons with black borders: 'MEETING RECORDINGS' and 'SUGGEST TOPICS'. A final paragraph at the bottom explains the meeting schedule: 'The Support Group meets on the first Monday of the month at 12-1p Pacific / 3-4p Eastern. During these meetings, the Hub often demonstrates a predetermined topic, then the session is open for questions, troubleshooting, and discussion. Refer to the schedule below for the most up-to-date information about this recurring event.'

The Support Group meets on the **first Monday** of the month at **12-1p Pacific / 3-4p Eastern**. During these meetings, the Hub often demonstrates a predetermined topic, then the session is open for questions, troubleshooting, and discussion. Refer to the schedule below for the most up-to-date information about this recurring event.

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# Portal Housekeeping

- Are you able to **log in** to your account?

CNH

Consortium of Northeastern Herbaria

Sign In

Home Search + About + Species Lists Sitemap

Portal Login

Username or email:

Password:

Remember me on this computer

Sign In

Don't have an Account?

[Create an account](#)

Can't remember your password?

[Reset Password](#)

Can't Remember Login Name?

[Retrieve Login](#)

Reminder: All passwords  
were reset Sept. 2025

# Portal Housekeeping

- Is the **contact information** for your collection up to date?

## Yale University Herbarium (Yale Peabody Museum-YU)

Toggle Manager's Control Panel




Founded in 1864 by Daniel Cady Eaton from his personal library and plant collection, the Yale Herbarium is an internationally recognized repository with holdings of approximately 350,000 specimens from throughout the world. There are an estimated 5,000 type specimens. The collection is particularly rich in ferns, bryophytes and grasses, as well as in historically important materials from the early botanical collectors. In addition, it was the herbarium of record for the flora of southern New England from 1864 until 1955, when that function passed to the University of Connecticut at Storrs.

[Homepage](#)


### Contacts:

- Senior Collections Manager: Patrick Sweeney, [patrick.sweeney@yale.edu](mailto:patrick.sweeney@yale.edu)

### Address:


Yale Peabody Museum, Yale University   
170 Whitney Avenue  
New Haven, Connecticut 06511  
United States of America  
(203) 432-3537  
<http://peabody.yale.edu/>

## Administration Control Panel

- [View Posted Comments](#)
- [Edit Metadata](#)
- [Manage Permissions](#)
- [Import/Update Specimen Records](#) 
- [Processing Toolbox](#)
- [Darwin Core Archive Publishing](#)
- [Review/Verify Occurrence Edits](#)
- [Duplicate Clustering](#)
- **General Maintenance Tasks**
  - [Data Cleaning Tools](#)
  - [Download Backup Data File](#)
  - [Thumbnail Maintenance](#)
  - [Update Statistics](#)

# Portal Housekeeping

- Have you **updated your statistics** lately?



**Collection Statistics**

- 64,672 specimen records
- 37,845 (59%) georeferenced
- 62,224 (96%) with media (69,840 total media)
- 59,919 (93%) identified to species
- 291 families
- 1,345 genera
- 5,835 species
- 6,256 total taxa (including subsp. and var.)

**Extra Statistics**


[Show Geographic Distribution](#)  
[Show Family Distribution](#)

MORE INFORMATION

Collection Type: Preserved Specimens

**Administration Control Panel**

- [View Posted Comments](#)
- [Edit Metadata](#)
- [Manage Permissions](#)
- [Import/Update Specimen Records](#) ⓘ
- [Processing Toolbox](#)
- [Darwin Core Archive Publishing](#)
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# Portal Housekeeping

Some tools are  
**deactivated**  
for **snapshots**

- Are you managing your data **“live”** or as a **“snapshot”**?


MORE INFORMATION

Collection Type: Preserved Specimens

Management: Data snapshot of local collection database

Last Update: 15 February 2017

Digital Metadata: [EML File](#)

Usage Rights: 

Rights Holder: Yale Peabody Museum

Access Rights: Open Access, <http://creativecommons.org/publicdomain/zero/1.0/>;  
<http://hdl.handle.net/10079/8931zqj>

### Administration Control Panel

- [View Posted Comments](#)
- [Edit Metadata](#)
- [Manage Permissions](#)
- [Import/Update Specimen Records](#) ⓘ
- [Processing Toolbox](#)
- [Darwin Core Archive Publishing](#)
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  - [Update Statistics](#)

# Portal Housekeeping

- Are your **user permissions** up to date?

## Collection Permissions for: OBI - Robert F. Hoover Herbarium, University


### Administrators

- Ayers, Annie 
- Hauser, Christopher 
- Keil, David 
- Kenny, Reed 
- Pearson, Katie 
- Simpson, Michael 
- Yost, Jenn 

### Editors

- Althaus, Kieran 
- Ayers, Analisa 
- Bennett, Cerise 
- Blassey, Kitty 
- Bonazzola, Emily 

## Administration Control Panel

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# Portal Housekeeping

- Do you know how to **backup your data**?
  - ***Set a calendar reminder!***  

## Download Backup File

Download Module

ISO-8859-1 (western)

UTF-8 (unicode)

[Download](#)

## Administration Control Panel

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# Portal Housekeeping

- [View Posted Comments](#) - 2 **unreviewed comments**

- Do you have any **unreviewed comments**?

OBI118802 Robert F. Hoover #6100 1946-05-31

O'Dell, Ryan posted on 2022-10-27 15:40:07

Since the species is strictly endemic to serpentine, likely collect

Hide Comment from Public

Mark as Reviewed

Delete Comment

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# Data Cleaning Stats & Assistance

We have identified data quality issues in some collections, some of which ***we can help batch fix!***

**We will email you** with data quality information specific to your collection, along **with a form that we ask you to fill out** to give us permission (or not) to conduct specific batch cleaning steps.

Please feel free to ask questions about this message during the discussion time at our upcoming Office Hours sessions.



# Upcoming



Add  
[hub@symbiota.org](mailto:hub@symbiota.org)  
to your contacts



Dear Consortium of Northeastern Herbaria,

As a reminder, the CNH campaign begins on **Thursday, March 12 at 2p Eastern time**. We encourage you to join us to participate in important discussions about your data, your collection, and the portal. Please register to participate:

[Office Hours: Register Here](#)

At our first meeting, we will introduce the Symbiota Support Hub and your Portal Manager, show resources designed to help you learn how to use your portal, and reserve time for community discussion. We would also like to hear about other potential data providers who could contribute to your portal, even if their collections are not fully digitized. Office Hours are also a great time to ask questions about any problems you might need help with. We invite your ideas and expertise!

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# Consortium of Northeastern Herbaria (CNH) Portal Advancement Campaign

---

Office Hours - March 19, 2026



**iDigBio**  
Integrated Digitized Biocollections



# Agenda

1. Data cleaning email follow-up
2. Data cleaning tools
  - a. Taxonomic Cleaning Tool
  - b. Geography Cleaning Tool
  - c. Batch editing
3. Questions & discussion
4. Next week

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# What we did

Queries were run to uncover:

- Unmatched taxonomic names
- Negated lat/longs / swapped lat/longs
- Missing coordinate data
- Inverted minimum and maximum elevation values
- Invalid Basis Of Record values
- Erroneous dates
- ... and more



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# Data cleaning in Symbiota portals

Written instructions are available in Symbiota Docs:

[docs.symbiota.org/Collection\\_Manager\\_Guide/Data\\_Cleaning](https://docs.symbiota.org/Collection_Manager_Guide/Data_Cleaning)

Data quality toolkit:

[docs.symbiota.org/Editor\\_Guide/data\\_quality\\_toolkit](https://docs.symbiota.org/Editor_Guide/data_quality_toolkit)

(Created for: [symbiota.org/digital-data-2024-workshop-report](https://symbiota.org/digital-data-2024-workshop-report))

Symbiota Support Group on Commenting & Feedback:

<https://youtu.be/fCKIMYNbJOM>

# Data cleaning in Symbiota portals

- Most useful for **live-managed** collections, but the tools can help any collection identify where there are issues.

• 92 species  
• 102 total taxa (including subsp. and var.)

---

**Extra Statistics**

[Show Geographic Distribution](#)  
[Show Family Distribution](#)

---

MORE INFORMATION

Collection Type: Preserved Specimens  
Management: Live Data managed directly within data portal  
Last Update: 31 October 2023  
Global Unique Identifier: 3d26287d-0624-4146-abb9-859cc97a99e4  
Digital Metadata: [EML File](#)  
Live Data Download: [DwC-Archive File](#)  
[Usage Rights](#)

# Data cleaning in Symbiota portals

- Taxonomic Cleaning Tool
- Geography Cleaning Tool
- Batch Editing

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  - [Data Cleaning Tools](#)
  - [Download Backup Data File](#)
  - [Thumbnail Maintenance](#)
  - [Update Statistics](#)

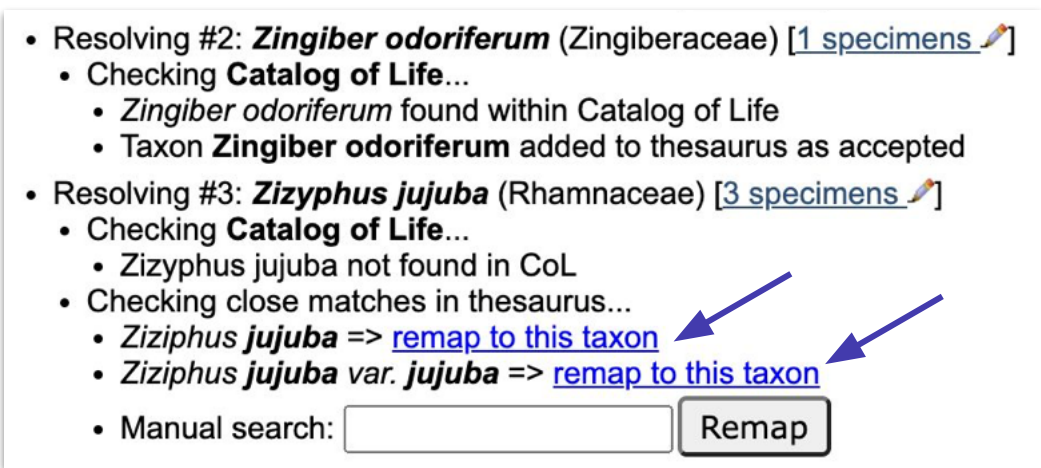


# Taxonomic Cleaning Tool

- Can be used to **clean** misspellings or orthographic variants
- In many portals, it can also **add taxa** to the taxonomic thesaurus.

# Taxonomic Cleaning Tool

- Can be used to clean misspellings or orthographic variants
- Will **change** the taxonomic name of your specimen, if you click **“remap to this taxon”**



• Resolving #2: **Zingiber odoriferum** (Zingiberaceae) [[1 specimens](#) ✎]


- Checking **Catalog of Life...**
  - *Zingiber odoriferum* found within Catalog of Life
  - Taxon **Zingiber odoriferum** added to thesaurus as accepted


• Resolving #3: **Zizyphus jujuba** (Rhamnaceae) [[3 specimens](#) ✎]

- Checking **Catalog of Life...**
  - Zizyphus jujuba not found in CoL
- Checking close matches in thesaurus...
  - *Zizyphus jujuba* => [remap to this taxon](#)
  - *Zizyphus jujuba* var. *jujuba* => [remap to this taxon](#)
- Manual search:

# Taxonomic Cleaning Tool

- Changes applied using this tool
  - *will* be reflected in the **Specimen Edit Reviewer**
  - *will not* add to the Determination History tab

- Resolving #1: *Fagescia* [1 specimens 
- Checking Catalog of Life...
  - Taxon not found
- Checking WoRMS...
  - Taxon not found
- Checking close matches in thesaurus...
  - *Fusus* => **remap to this taxon >>> Taxon remapped successfully!**
- Manual search:  **Remap**



Home >> Collection Management >> Public Display >>

Occurrence Data | Determination History | Images | Linked Resources | **Admin**

**History of Internal Edits**

**Editor:** Walker, Lindsay      **Date:** 2024-04-10 14:36  
**Applied Status:** applied

**Field:** sciname  
**Old Value:** Fagescia  
**New Value (current):** Fusus




**Field:** scientificNameAuthorship  
**Old Value:**  
**New Value (current):** Helbling, 1779

# Taxonomic Cleaning Tool

- **May not fix everything** since:
  - the taxonomic thesaurus doesn't deal with hybrids or cultivars very well
  - some taxonomic names might not be in the thesaurus

# Geography Cleaning Tool

- Like the taxonomic thesaurus, it is intended to be a resource for data discoverability, not an authority

<b>U.S.S.R (1)</b> 	<input type="text" value="Replace with..."/>	<input type="button" value="Replace Country"/>
<b>U.S.S.R. (8)</b> 	<input type="text" value="Replace with..."/>	<input type="button" value="Replace Country"/>
<b>USSR (1)</b> 	<input type="text" value="Replace with..."/>	<input type="button" value="Replace Country"/>

# Batch Editing

- Use caution when using!
- Edits will be tracked in the Review/Verify Edits table

## Data Editor Control Panel

- [Add New Occurrence Record](#)
- [Create New Records Using Image](#)
- [Add Skeletal Records](#)
- [Edit Existing Occurrence Records](#)
- [Add Batch Determinations/Nomenclatural Adjustments](#)
- [Print Specimen Labels](#)
- [Print Annotations Labels](#)
- [Occurrence Trait Coding Tools](#)
- [Batch Georeference Specimens](#)
- [Loan Management](#)

## Administration Control Panel

- [View Posted Comments](#)
- [Edit Metadata](#)
- [Manage Permissions](#)
- [Import/Update Specimen Records](#)
- [Processing Toolbox](#)
- [Darwin Core Archive Publishing](#)
- [Review/Verify Occurrence Edits](#)
- [Duplicate Clustering](#)
- **General Maintenance Tasks**
  - [Data Cleaning Tools](#)
  - [Download Backup Data File](#)
  - [Restore Backup File](#)
  - [Thumbnail Maintenance](#)
  - [Update Statistics](#)

# Batch Editing

- Use caution when using!
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## Data Editor Control Panel

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  - [Download Backup Data File](#)
  - [Restore Backup File](#)
  - [Thumbnail Maintenance](#)
  - [Update Statistics](#)

***Safety!***



# Batch Editing

## OBI - Robert F. Hoover Herbarium, Cal Poly State University (OBI)

Open Record Search Form

Batch Update Tool



Record Search Form

Collector:  Number:  Date:

↻ Copy Link

Catalog Number:  Other Catalog Numbers:

Entered by:  **CU** Date Entered:  Date Modified:

Processing Status:   with images  without images

Custom Field 1:

Display Editor

Display Table

Reset Form

Sort By:  Order by:  Record output:

Display as dynamic table

| 1-1000 of 95192 records | >> ≥ | \* Click on the Symbiota identifier in the first column to open the editor.

Symbiota ID	Catalog Number	Other Catalog #	Family	Scientific Name	Author	Collector
<a href="#">163843</a> <input type="checkbox"/>	OBI102853	80319	Caprifoliaceae	<i>Abelia x grandiflora</i>	(André) Rehd.	Leighton Murphy
<a href="#">163844</a> <input type="checkbox"/>	OBI174991	66640	Pinaceae	<i>Abies bracteata</i>	(D. Don) D. Don ex Poit.	D. R. Miller

# Batch Editing

- Changes applied using this tool *will* be reflected in the **Specimen Edit Reviewer**



Home >> [Collection Management](#) >> [Public Display](#) >>

Occurrence Data   Determination History   Images   Linked Resources   Traits   **Admin**

**History of Internal Edits**

**Editor:** Walker, Lindsay   **Date:** 2024-04-10 15:04

**Applied Status:** applied

**Field:** reproductivecondition  
**Old Value:** adult  
**New Value (current):** nymph

# Batch Editing

## OBI - Robert F. Hoover Herbarium, Cal Po

Open Record Search Form

Batch Update Tool

Record Search Form

Collector:  Number:  Date:

Catalog Number:  Other Catalog Numbers:

Entered by:  **CU** Date Entered:  Date Modified:

Processing Status:   with images  without images

Custom Field 1:

Display Editor

Display Table

Reset Form

Sort By:  Order by:  Record output:

Display as dynamic table

| 1-1000 of 95192 records | >> >| \* Click on the Symbiota identifier in the first column to open the editor.

Symbiota ID	Catalog Number	Other Catalog #	Family	Scientific Name	Author	Collector
<a href="#">163843</a> <input type="checkbox"/>	OBI102853	80319	Caprifoliaceae	<i>Abelia x grandiflora</i>	(André) Rehd.	Leighton Murphy
<a href="#">163844</a> <input type="checkbox"/>	OBI174991	66640	Pinaceae	<i>Abies bracteata</i>	(D. Don) D. Don ex Poit.	D. R. Miller

biokic4.rc.asu.edu says

You are about to update 11 records.

Note that you won't be able to undo this Replace operation!

Do you want to continue?

Cancel

OK

# Questions & Discussion Time

# Agenda

1. Data cleaning email follow-up
2. Data cleaning tools
  - a. Taxonomic Cleaning Tool
  - b. Geography Cleaning Tool
  - c. Batch editing
3. Questions & discussion
- 4. Next week**

# Next week

- Happening on **Thursday, March 26 @ 2p Eastern**
  - Publishing data to GBIF: why and how?
  - What are GRSciColl and Index Herbariorum?

# Also happening soon

- Symbiota Support Group on **Monday, April 6 @ 3p Eastern**
  - Demonstration of two new tools:
    - **Coordinate validator tool**
      - Helps ensure your coordinates fall within expected boundaries
    - **Duplicate georeference harvester**
  - Register: [symbiota.org/symbiota-support-group](https://symbiota.org/symbiota-support-group)



# Consortium of Northeastern Herbaria (CNH) Portal Advancement Campaign

---

Office Hours - March 26, 2026



**iDigBio**  
Integrated Digitized Biocollections



# Check your inbox...

Collections that are **live managed** in Symbiota and **not publishing** to GBIF (to our knowledge) have been contacted individually.

If your collection is a **snapshot** in CNH, but you're still interested in data publishing and need assistance, please contact our Help Desk:

[help@symbiota.org](mailto:help@symbiota.org).



# Agenda: Publishing to GBIF & iDigBio

- What is GBIF?
- Why publish to GBIF?
- How to publish to GBIF?
- What about iDigBio?
- GRSciColl & Index Herbariorum
- Discussion time

# Agenda: Publishing to GBIF & iDigBio

- **What is GBIF?**
- Why publish to GBIF?
- How to publish to GBIF?
- What about iDigBio?
- GRSciColl & Index Herbariorum
- Discussion time

# What is GBIF?

“an **international network** of country and organizational Participants that exists to enable **free and open access to biodiversity data** from all sources and to support biodiversity science, environmental research, and evidence based decision-making.”



# GBIF data portal: [gbif.org](http://gbif.org)

Get data How to Tools Community About

Home Language Search Login

GBIF | Global Biodiversity Information Facility

## Free and open access to biodiversity data

OCCURRENCES SPECIES DATASETS PUBLISHERS RESOURCES

Search

What is GBIF? About GBIF United States of America

Delonix regia (Boer ex Hook.) Raf. observed in Guinea by Anne Helene Paradis (CC BY-NC 4.0)



2,640,176,605

Occurrence records



92,874

Datasets



2,189

Publishing institutions



10,152

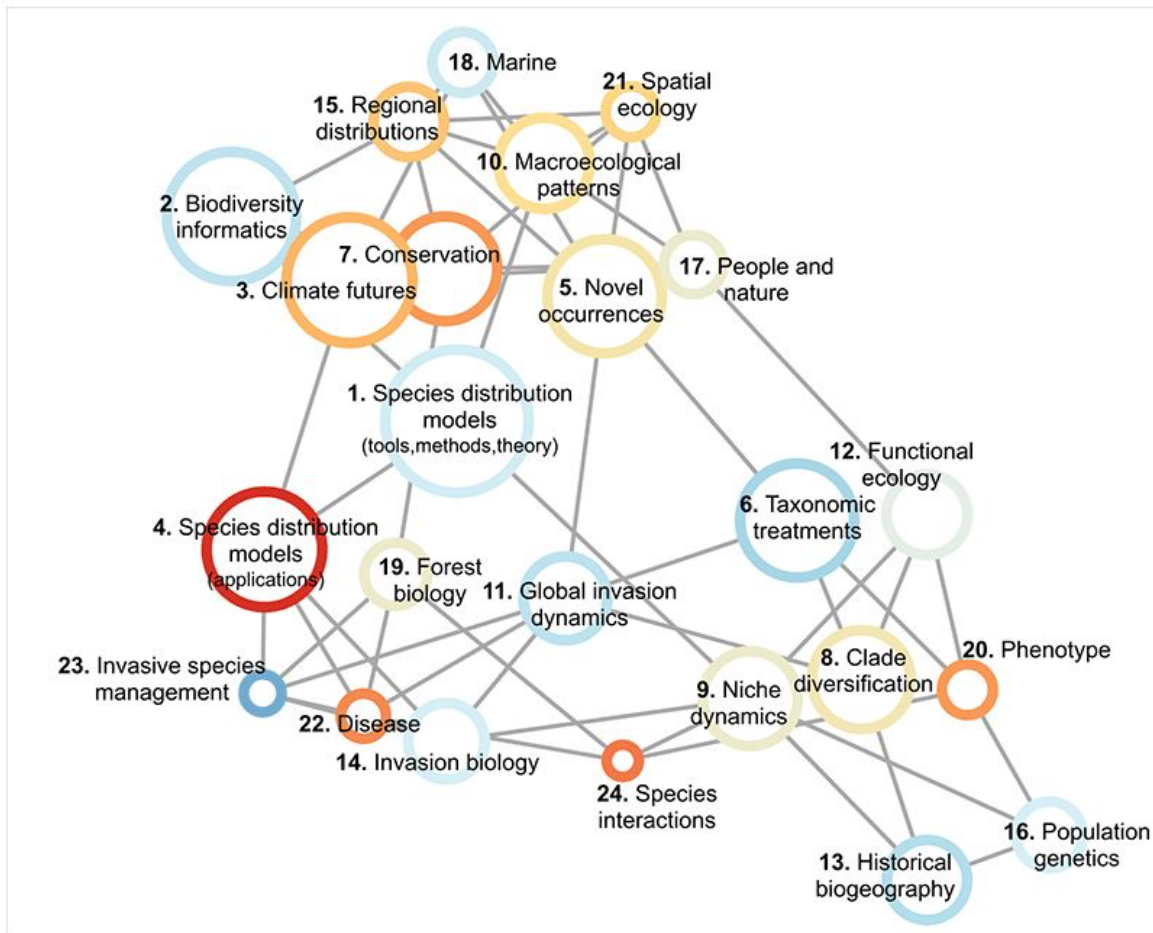
Peer-reviewed papers  
using data

# Why Publish to GBIF?

- **Greater access** to your data → **greater visibility** for your collection

# Why Publish to GBIF?

- Greater access to your data → greater visibility for your collection
- Allows **researchers** from a broader **range of disciplines** to compile **more comprehensive datasets**



Structural topic model results from 4,035 studies that used GBIF-mediated data published between 2003 and 2019.

<https://docs.gbif.org/course-introduction-to-gbif/en/how-is-gbif-mediated-data-used.html>

# Why Publish to GBIF?

- Greater access to your data → greater visibility for your collection
- Allows researchers from a broader range of disciplines to compile more comprehensive datasets
- **Citation tracking**

# Arizona State University Biocollections

[ABOUT](#) [METRICS](#) [∞ HOME PAGE](#)

673,214 OCCURRENCES

18 DATASETS

691 CITATIONS

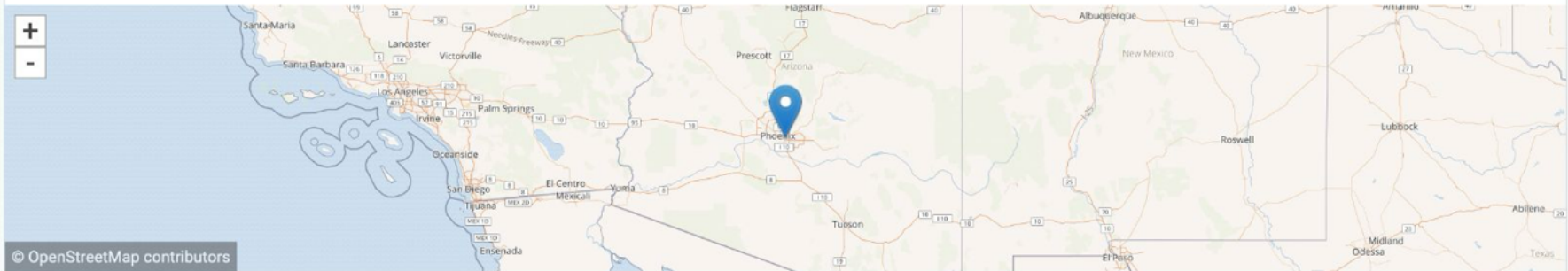
**Description:** The Arizona State University Biocollections comprise two sets of distinct collections: (1) the Arizona State University Natural History Collections - currently with nine collections focused on documenting Greater Sonoran and New World biodiversity; and (2) the NEON Biorepository at Arizona State University, with a unique constellation of organismal and environmental samples generated in the context of monitoring and forecasting long-term ecological change in the North American subcontinent, including Alaska, Hawaii, and Puerto Rico.

**Endorsed by:** [Symbiota Support Hub](#)

**Administrative contact:** [Nico Franz](#)

**Technical contact:** [Laura Rocha Prado](#)

**Country or area:** [United States of America](#)



# Why Publish to GBIF?

- Greater access to your data → greater visibility for your collection
- Allows researchers from a broader range of disciplines to compile more comprehensive datasets
- Citation tracking
- **Data quality flags**

# Arizona State University Biocollections

ABOUT

METRICS

∞ HOME PAGE

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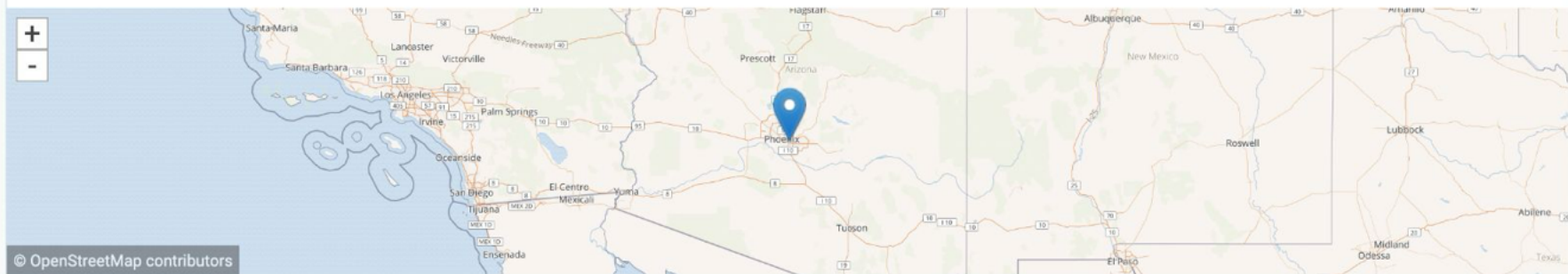
**Description:** The Arizona State University Biocollections comprise two sets of distinct collections: (1) the Arizona State University Natural History Collections - currently with nine collections focused on documenting Greater Sonoran and New World biodiversity; and (2) the NEON Biorepository at Arizona State University, with a unique constellation of organismal and environmental samples generated in the context of monitoring and forecasting long-term ecological change in the North American subcontinent, including Alaska, Hawaii, and Puerto Rico.

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**Country or area:** [United States of America](#)





OCCURRENCES PER ISSUES AND FLAGS

Issues and flags	Count
Collection match none	173,869
Institution match fuzzy	173,869
Geodetic datum assumed WGS84	70,631
Coordinate rounded	42,669
Recorded date invalid	10,220
Coordinate reprojected	1,549
Taxon match higherrank	743
Taxon match fuzzy	314
Taxon match none	110
Country coordinate mismatch	67

NEXT

OCCURRENCES PER YEAR



# Agenda: Publishing to GBIF & iDigBio

- What is GBIF?
- Why publish to GBIF?
- **How to publish to GBIF?**
- What about iDigBio?
- GRSciColl & Index Herbariorum
- Discussion time

How do I publish to  
GBIF?

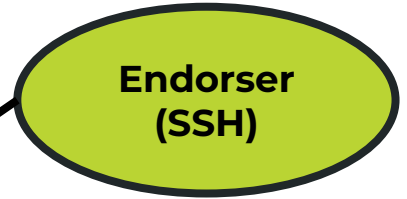
# GBIF Structure



# GBIF Structure



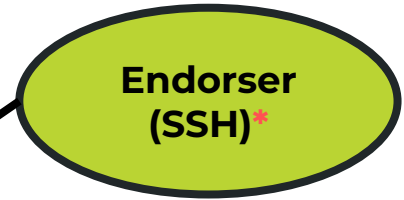
Endorses



# GBIF Structure

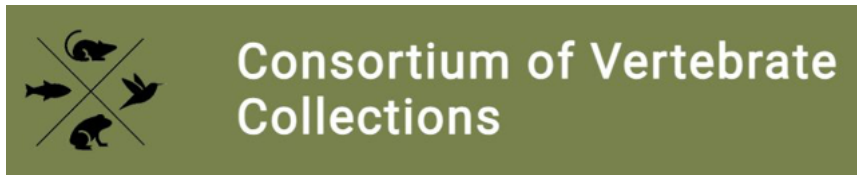
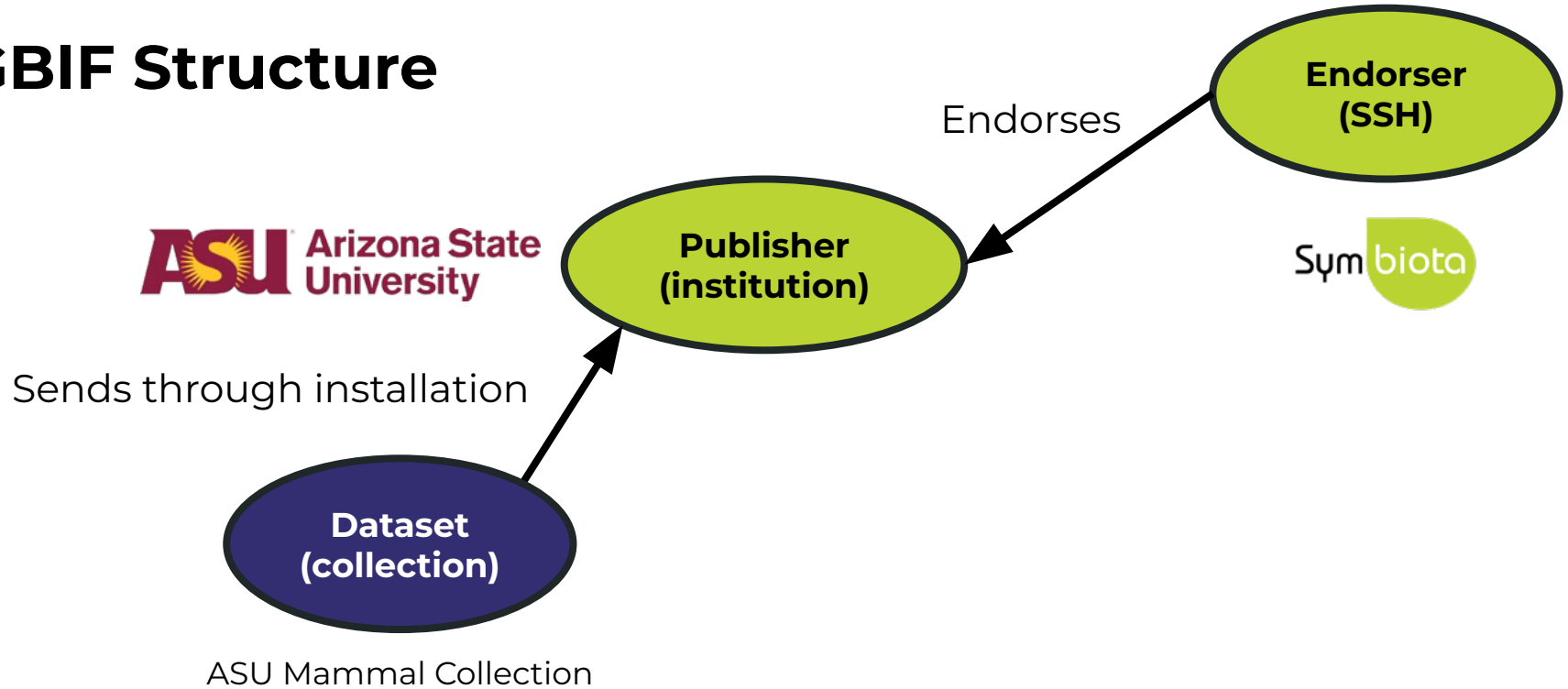


Endorses

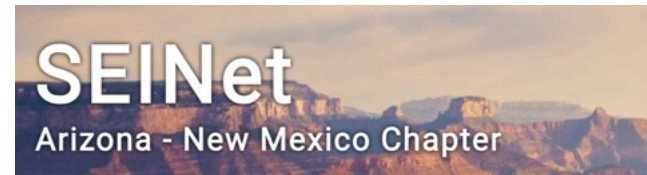
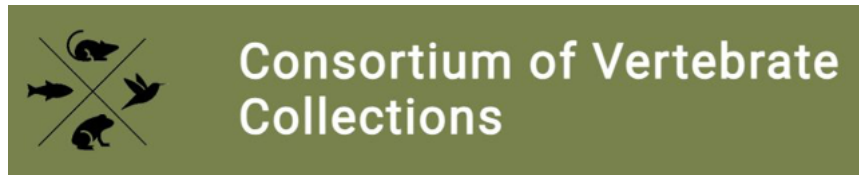
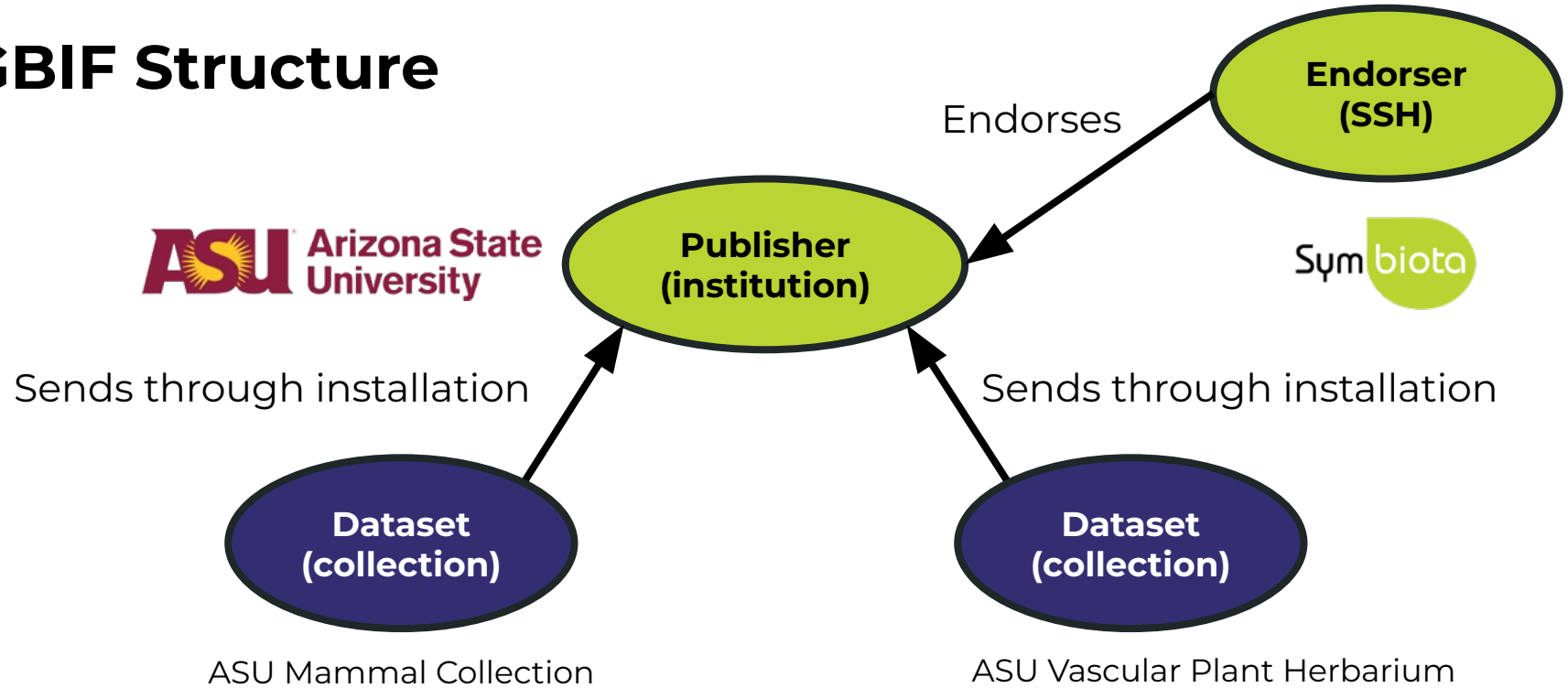


\*Or your country's node, if not US-based (i.e. Canada)

# GBIF Structure



# GBIF Structure



# Arizona State University Biocollections

[ABOUT](#) [METRICS](#) [∞ HOME PAGE](#)

673,214 OCCURRENCES

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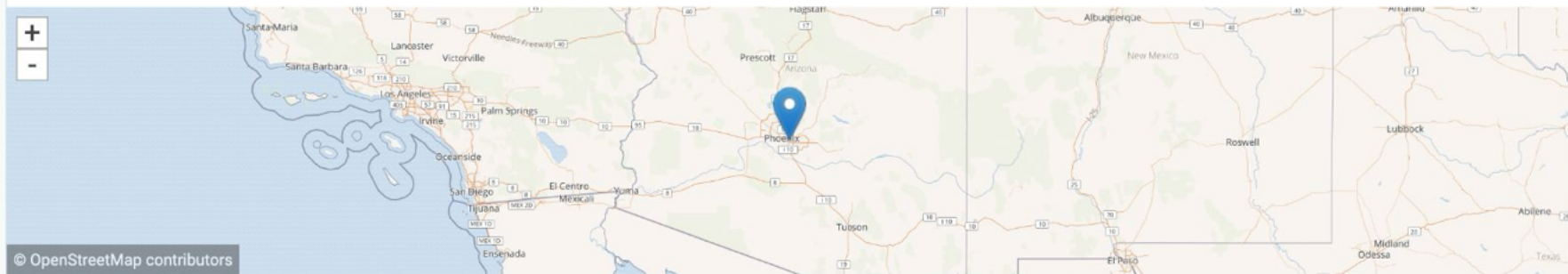
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**Country or area:** [United States of America](#)



[ALL](#) [OCCURRENCE](#) [CHECKLIST](#) [SAMPLING EVENT](#) [METADATA](#)[DOWNLOAD AS TSV](#)

### Arizona State University Vascular Plant Herbarium

[Occurrence dataset](#)

The Arizona State University Vascular Plant Herbarium (ASU) is among the most important in the greater Sonoran Desert region with over 315,000 specimens. We are particularly proud of our holdings of C...

Published by Arizona State University Biocollections

283,279 occurrences 407 citations



### Arizona State University Hasbrouck Insect Collection

[Occurrence dataset](#)

The ASU Frank F. Hasbrouck Insect Collection contains approximately 1,000,000 insect specimens, representing at least 25 orders, 390 families, 4,000 genera, 12,000 species and 1,240 subspecies. Most s...

Published by Arizona State University Biocollections

167,107 occurrences 155 citations



### Arizona State University Lichen Herbarium

[Occurrence dataset](#)

No description available

Published by Arizona State University Biocollections

123,620 occurrences 105 citations



### Arizona State University Herpetology Collection

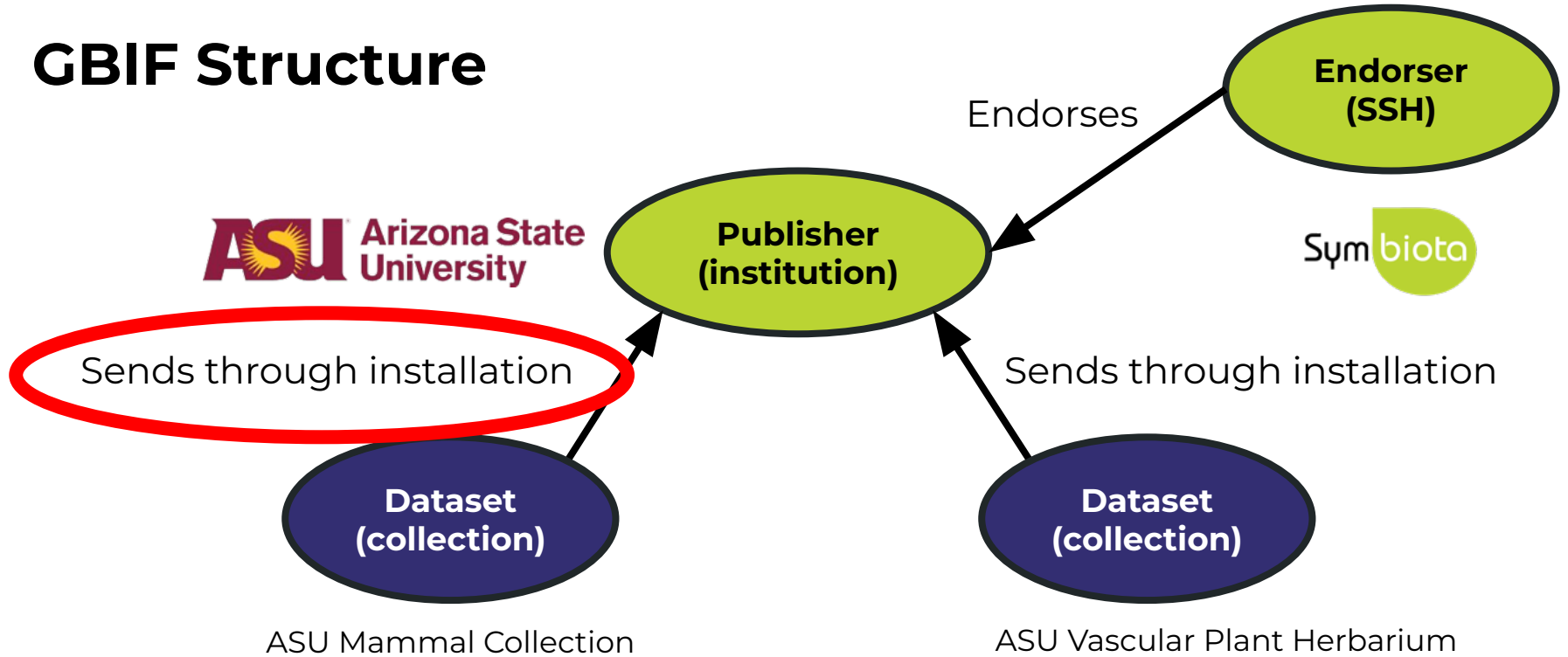
[Occurrence dataset](#)

The Herpetology Collection at the ASU Natural History Collections contains approximately 38,000 specimens representing more than 900 species, with a geographic concentration in the western United Stat...

Published by Arizona State University Biocollections



# GBIF Structure



Consortium of Vertebrate  
Collections

SEINet

Arizona - New Mexico Chapter

# How to publish to GBIF: 3 Options

1. Publish from a Symbiota Portal
2. Install and manage your own Integrated Publishing Toolkit (IPT)
3. Use someone else's IPT (e.g., VertNet, iDigBio)

# How to publish to GBIF: 3 Options

- 1. Publish from a Symbiota Portal**
2. Install and manage your own Integrated Publishing Toolkit (IPT)
3. Use someone else's IPT (e.g., VertNet, iDigBio)

# Publishing to GBIF from a Symbiota portal

## 1. Make sure your **metadata are accurate**

### Yale University Herbarium (Yale Peabody Museum-YU)

Toggle Manager's Control Panel




Founded in 1864 by Daniel Cady Eaton from his personal library and plant collection, the Yale Herbarium is an internationally recognized repository with holdings of approximately 350,000 specimens from throughout the world. There are an estimated 5,000 type specimens. The collection is particularly rich in ferns, bryophytes and grasses, as well as in historically important materials from the early botanical collectors. In addition, it was the herbarium of record for the flora of southern New England from 1864 until 1955, when that function passed to the University of Connecticut at Storrs.

[Homepage](#)


#### Contacts:

- Senior Collections Manager: Patrick Sweeney, [patrick.sweeney@yale.edu](mailto:patrick.sweeney@yale.edu)

#### Address:

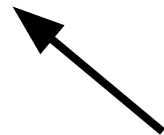
Yale Peabody Museum, Yale University   
170 Whitney Avenue  
New Haven, Connecticut 06511  
United States of America  
(203) 432-3537  
<http://peabody.yale.edu/>

### Administration Control Panel

- 
- [View Posted Comments](#)
  - [Edit Metadata](#)
  - [Manage Permissions](#)
  - [Import/Update Specimen Records](#) ©
  - [Processing Toolbox](#)
  - [Darwin Core Archive Publishing](#)
  - [Review/Verify Occurrence Edits](#)
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  - **General Maintenance Tasks**
    - [Data Cleaning Tools](#)
    - [Download Backup Data File](#)
    - [Thumbnail Maintenance](#)
    - [Update Statistics](#)

# Publishing to GBIF from a Symbiota portal

1. Make sure your metadata are accurate
2. *(If not already done)* **Request to become a publisher** in GBIF:  
<https://www.gbif.org/become-a-publisher>



**This page allows you to search for your institution to see if it's already registered.**

# Publishing to GBIF from a Symbiota portal

1. Make sure your metadata are accurate
2. (If not already done) **Request to become a publisher** in GBIF:  
<https://www.gbif.org/become-a-publisher>

### Endorsing node

To support publishers and review data quality all publishers are associated with a GBIF node. Please check the suggestion below, and correct it if needed:

Help me with endorsement

Marine data publishers: request endorsement for OBIS (Ocean Biogeographic Information System) related data

If endorsement through the country node suggested above is not the right option, please check this list of associated participants for multinational or thematic networks:

- Symbiota Support Hub
- Amazon Cooperation Treaty Organization

**SSH can (and wants to) endorse you if your institution is US-based**

**Canadian CNH collections should work with Canadensys**



**Canadensys**

# Publishing to GBIF from a Symbiota portal

1. Make sure your metadata are accurate
2. *(If not already done)* **Request to become a publisher** in GBIF:  
<https://www.gbif.org/become-a-publisher>
3. Email the Symbiota Support Hub ([help@symbiota.org](mailto:help@symbiota.org)) to get your data “pushed.”

# Publishing to GBIF from a Symbiota portal

1. Make sure your metadata are accurate
2. *(If not already done)* Request to become a publisher in GBIF:  
<https://www.gbif.org/become-a-publisher>
3. Once approved, enter your **dataset key** in “Darwin Core Archive Publishing” in your portal
4. **Email GBIF** ([helpdesk@gbif.org](mailto:helpdesk@gbif.org)) to notify them that the portal has your permission to push your dataset to GBIF (an example email is provided!)
5. Once approved, **publish** the data!

**We can help with Steps 3-5  
(Email us after Step 2)**

# Important notes

- **GBIF doesn't automatically harvest your data**

## Darwin Core Archive Publishing

Albion R. Hodgdon Herbarium, University of New Hampshire

Use the controls below to publish occurrence data from this collection as a [Darwin Core](#) compressed ZIP file that contains one to several data files along with a meta.xml document. A meta.xml document is required, but identifications (determinations) and media metadata are optional. Files are published in the Darwin Core exchange standard. We recommend that you also review instructions for [Publishing Darwin Core Data to GBIF](#).

RSS Feed: <https://neherbaria.org/portal/content/dwca/rss.xml>

Title: University of New Hampshire-NHA DwC-Archive 

Description: Darwin Core Archive for Albion R. Hodgdon Herbarium, University of New Hampshire

EML: <https://neherbaria.org/portal/collections/datasets/emlhandler.php?collid=7>

DwC-Archive File: <https://neherbaria.org/portal/content/dwca/UniversityofNewHampshire>

Pub Date: Sun, 01 Mar 2026 17:03:42

### Publishing Information

GUID source: symbiotaUUID

GBIF Dataset page: <http://www.gbif.org/dataset/b42c906d-28ef-4456-8fd6-d13d3>

iDigBio Dataset page: <https://www.idigbio.org/portal/recordsets/7644703a-ce24-4>

### Publish/Refresh DwC-A Data

Include Determination History

Include Media URLs

Include Occurrence Trait Attributes

Include Alternative Identifiers

Redact Protected Records/Localities

**Create/Refresh Darwin Core Archive**



# Albion R. Hodgdon Herbarium, University of New Hampshire (University of New Hampshire-NHA)

30 citations



collectors & determiners

84

## Toggle Manager's Control Panel

The NHA herbarium comprises approximately 200,000 specimens (120,000 vascular plants, 80,000 marine algae, and 550 bryophytes and lichens). The collection contains a combination of historic and recently collected specimens, including 97 nomenclatural type specimens and voucher specimens supporting taxonomic, ecological, and biogeographic research. While our specimens represent plant species worldwide, the collections emphasize northeastern North America and are especially strong in representing freshwater and marine habitats. An additional strength is our extensive collection of Neotropical aquatic species.

[Homepage](#)

## Contacts:

- Director: Chris Neefus, [chris.neefus@unh.edu](mailto:chris.neefus@unh.edu)
- Collections Manager: Erin Sigel, [Erin.Sigel@unh.edu](mailto:Erin.Sigel@unh.edu)

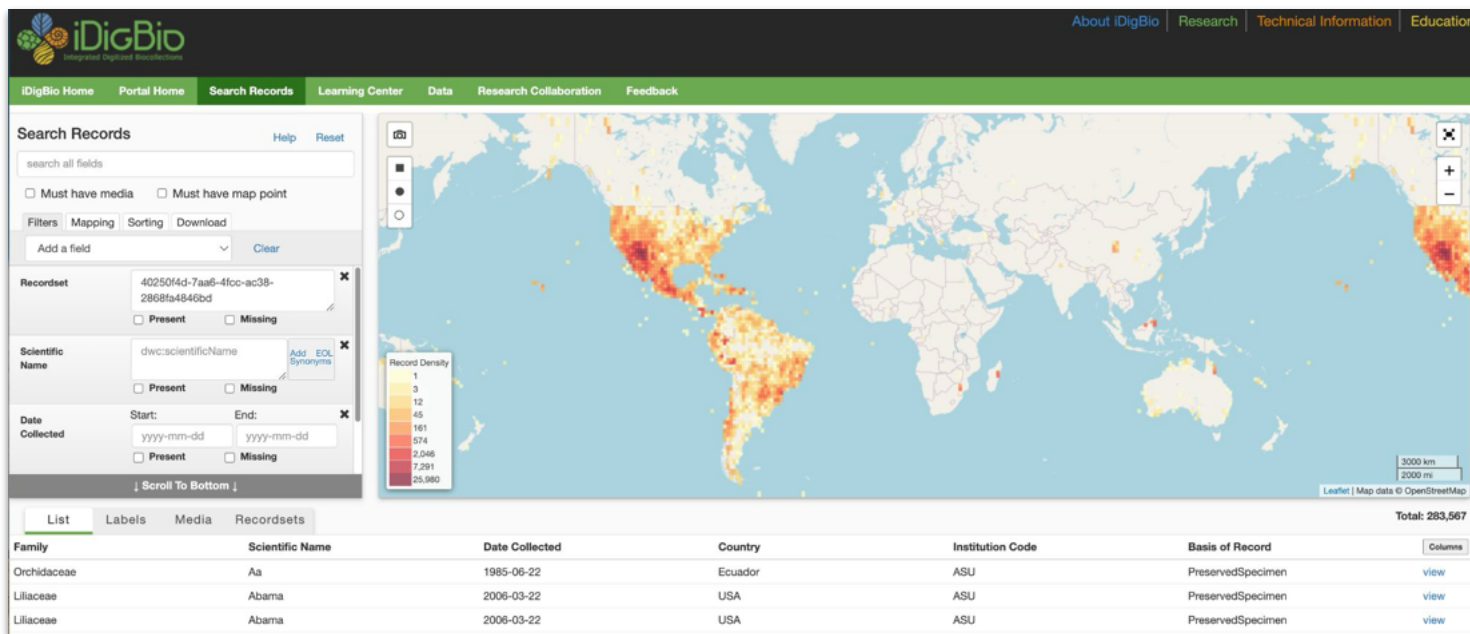
GBIF Dataset page: <http://www.gbif.org/dataset/b42c906d-28ef-4456-8fd6-d13d34bd50a7>

# Agenda: Publishing to GBIF & iDigBio

- What is GBIF?
- Why publish to GBIF?
  - Bionomia
- How to publish to GBIF?
- **What about iDigBio?**
- GRSciColl & Index Herbariorum
- Discussion time

# What about iDigBio?

- Once you've published to GBIF, publishing to iDigBio is **very easy**
- Email Cat Chapman: [cchapman@floridamuseum.ufl.edu](mailto:cchapman@floridamuseum.ufl.edu)



The screenshot displays the iDigBio website interface. At the top, there is a navigation bar with links for "About iDigBio", "Research", "Technical Information", and "Education". Below this is a secondary navigation bar with "iDigBio Home", "Portal Home", "Search Records", "Learning Center", "Data", "Research Collaboration", and "Feedback".

The "Search Records" section includes a search box, checkboxes for "Must have media" and "Must have map point", and tabs for "Filters", "Mapping", "Sorting", and "Download". A "Recordset" is selected with ID "40250f4d-7aa6-4fcc-ac39-2868fa4846bd". The "Scientific Name" field is set to "dwc:scientificName". The "Date Collected" field has "Start" and "End" date pickers.

A world map shows record density with a color scale from 1 (lightest) to 25,980 (darkest). The highest density is visible in North and South America. A legend for "Record Density" is provided on the left side of the map.

Below the map, there are tabs for "List", "Labels", "Media", and "Recordsets". The "List" tab is active, showing a table of records with columns: Family, Scientific Name, Date Collected, Country, Institution Code, Basis of Record, and a "Columns" button.

Family	Scientific Name	Date Collected	Country	Institution Code	Basis of Record	Columns
Orchidaceae	Aa	1985-06-22	Ecuador	ASU	PreservedSpecimen	<a href="#">view</a>
Liliaceae	Abama	2006-03-22	USA	ASU	PreservedSpecimen	<a href="#">view</a>
Liliaceae	Abama	2008-03-22	USA	ASU	PreservedSpecimen	<a href="#">view</a>

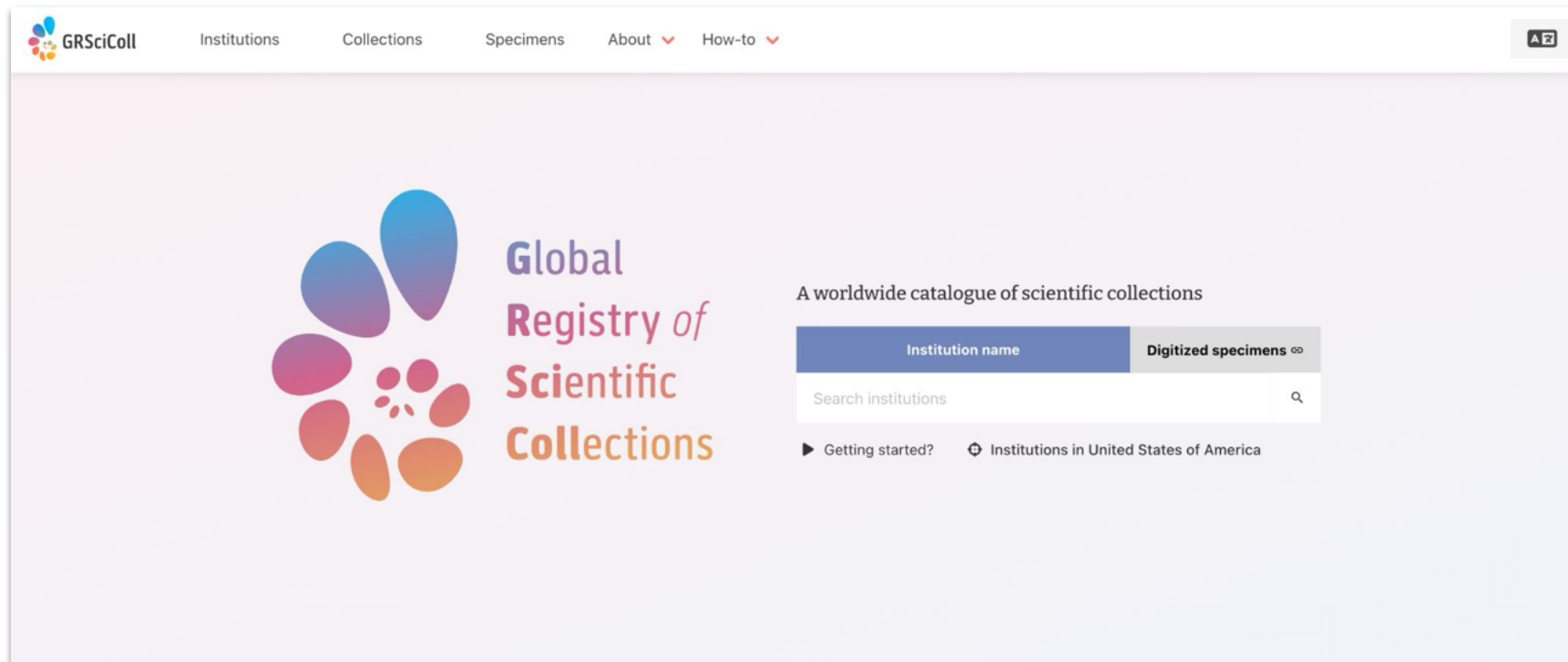
Total: 283,567

# Agenda: Publishing to GBIF & iDigBio

- What is GBIF?
- Why publish to GBIF?
  - Bionomia
- How to publish to GBIF?
- What about iDigBio?
- **GRSciColl & Index Herbariorum**
- Discussion time

# What is GRSciColl?

**GRSciColl** = **G**lobal **R**egistry of **S**cientific **C**ollections: [scientific-collections.gbif.org](https://scientific-collections.gbif.org)



The screenshot shows the GRSciColl website homepage. At the top left is the GRSciColl logo, followed by navigation links for "Institutions", "Collections", "Specimens", "About", and "How-to". A search icon is in the top right. The main content area features a large graphic of colorful, overlapping shapes on the left, with the text "Global Registry of Scientific Collections" to its right. Below this is the tagline "A worldwide catalogue of scientific collections". A search bar is present with the placeholder text "Search institutions" and a magnifying glass icon. Below the search bar are two links: "▶ Getting started?" and "⊕ Institutions in United States of America".

GRSciColl Institutions Collections Specimens About How-to

Global Registry of Scientific Collections

A worldwide catalogue of scientific collections

Institution name Digitized specimens

Search institutions

▶ Getting started? ⊕ Institutions in United States of America

# Botany

From Yale Peabody Museum

[peabody.yale.edu](http://peabody.yale.edu)

United States of America &gt; New Haven

↑ 360,000 specimens

Edit

[About](#) [Dashboard](#) [Specimens](#)

## Description

Global Marchantiophyta & Bryophyta; North American Monilophyta; North American Spermatophyta, but particularly strong in northeastern North America and western United States

**Taxonomic description** Global Marchantiophyta & Bryophyta; North American Monilophyta; North American Spermatophyta, but particularly strong in northeastern North America and western United States

**Geographic description** Global

**Temporal description** *No information*

**Code** YU

**Number of specimens in collection** 360,000

**Online Catalog/Database** <http://peabody.yale.edu/collections/search-collections?bot>

**Home page** <http://peabody.yale.edu/collections/botany>



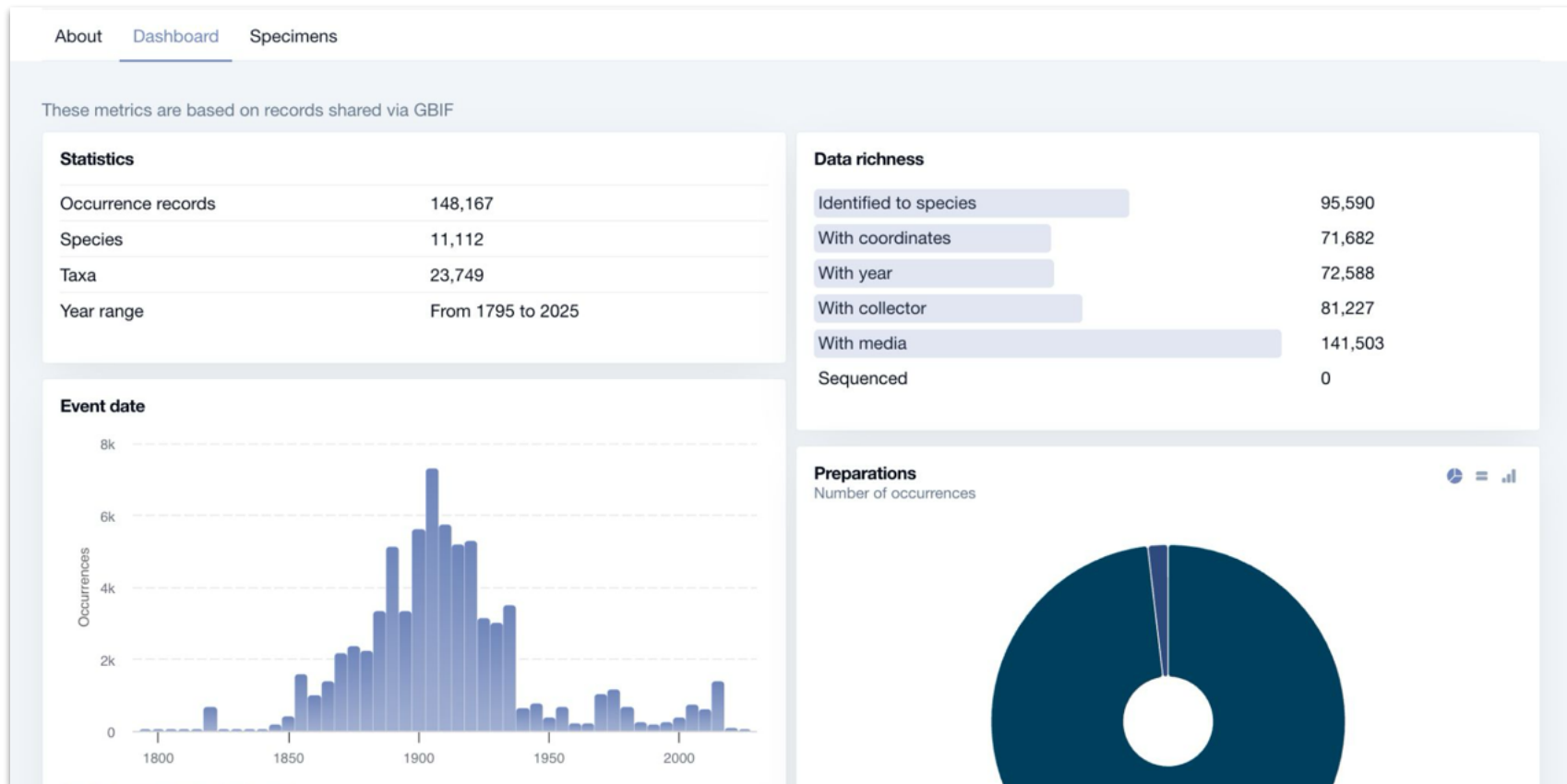
## Statistics

Occurrence records	148,167
Species	11,112
Taxa	23,749
Year range	From 1795 to 2025

## Data richness

Identified to species	95,590
With coordinates	71,682

# Custom, shareable dashboards!



# What is GRSciColl? (& Index Herbariorum)

**GRSciColl** = Global **R**egistry of **S**cientific **C**ollections: [scientific-collections.gbif.org](https://scientific-collections.gbif.org)

**Herbaria** should register with **Index Herbariorum**:

[sweetgum.nybg.org/https://sweetgum.nybg.org/science/ih/science/ih](https://sweetgum.nybg.org/https://sweetgum.nybg.org/science/ih/science/ih)

- Maintained by NYBG
- Use to officially register your herbarium code
- Your Index Herbariorum record will be used to update the corresponding GRSciColl record for your herbarium

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## Correspondents

Elizabeth Makings, Collections Manager of Vascular Plants, [elizabeth.makings@asu.edu](mailto:elizabeth.makings@asu.edu)

Frank Bungartz, Collections Manager of Lichens and Digital Data -- loan requests for non-vascular plants and plant-like organisms, [frank.bungartz@asu.edu](mailto:frank.bungartz@asu.edu)

# What is GRSciColl? (& Index Herbariorum)

**GRSciColl** = Global **R**egistry of **S**cientific **C**ollections: [scientific-collections.gbif.org](https://scientific-collections.gbif.org)

**Herbaria** should register with **Index Herbariorum**:

[sweetgum.nybg.org/https://sweetgum.nybg.org/science/ih/science/ih](https://sweetgum.nybg.org/https://sweetgum.nybg.org/science/ih/science/ih)

- Suggest edits or create a new record
- Add a link to your collection profile
- Updates will be periodically pushed to GRSciColl

Questions?

# Reminders

- **Next week:** No meeting!
- **Thursday, April 9:** Wrap-up and next steps
  - Campaign wrap-up
  - Community discussion & sustainability planning

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  - Campaign wrap-up
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## Campaign adjacent event:

- **Monday, April 6:** Symbiota Support Group new tool demo
  - Coordinate validator tool
  - Duplicate georeference harvester
  - Register: [symbiota.org/symbiota-support-group](https://symbiota.org/symbiota-support-group)

# Consortium of Northeastern Herbaria (CNH) Portal Advancement Campaign

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Office Hours - April 9, 2026



**iDigBio**  
Integrated Digitized Biocollections



# Agenda

- Campaign Highlights
- Standing Opportunities
- Discussion Time

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- **Campaign Highlights**
- Standing Opportunities
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The background of the slide is a light gray, semi-transparent pattern of fireworks exploding against a white background. The fireworks are scattered across the frame, with some appearing larger and more detailed than others. The overall effect is a celebratory and dynamic visual.


# 11

unique campaign participants during Office Hours  
(not counting today)

The background of the slide features a pattern of faint, light-colored fireworks exploding against a white background. The fireworks are scattered across the frame, with some appearing larger and more detailed than others. The overall aesthetic is clean and celebratory.

# 24

collections contacted with data cleaning information

A solid green horizontal bar is located at the bottom of the slide, spanning the entire width of the page.

# 29

collections contacted with data publishing information

The background is a stylized, light gray map with various navigation icons such as a compass, a location pin with a tree, and a location pin with an arrow. The map lines are thick and white, creating a network of paths.

# 3,801

country values standardized

The background of the slide is a light gray map with white lines representing roads and paths. Several navigation icons are overlaid on the map, including a compass, a location pin, and a tree icon. The overall aesthetic is clean and modern.

# 12,562

taxonomic names linked to the taxonomic thesaurus

The background of the slide is a light gray map with white lines representing roads and paths. Several navigation icons are overlaid on the map, including a magnifying glass, a location pin, a compass, and a tree icon. The number '74,472' is prominently displayed in the center of the map.

# 74,472

specimen records linked to the taxonomic thesaurus



# 12,386

endings of species-level scientific names  
standardized to "subsp." (from "ssp.")

# GBIF Data Publishing

**2.6k**  
records

- ★ New publisher:
  - State University of New York, Oneonta (SUCO) Herbarium (Jewell and Arline Moss Settle Herbarium)

## Other Success Stories

- ★ Cleaned up **1,119** records transferred to another portal
- ★ Working toward addition of **HAM cultivar names**
- ★ Snapshot from **ACAD** refreshed (first since 2013!)

# Agenda

- Campaign Highlights
- **Standing Opportunities**
- Discussion Time

# Maintaining Momentum: Digitization Funding

- See: [sympbiota.org/funding-ideas](https://sympbiota.org/funding-ideas)
  - NSF grants
  - IMLS grants
- Institutional grants

## Infrastructure Capacity for Biology (Capacity)



- **Synopsis:**

Support the implementation of, scaling of, or major improvements to research tools, products, and services that advance contemporary biological research.

- **Programmatic Areas:**

- Capacity: Cyberinfrastructure
- Capacity: Biological Collections
- Capacity: Field Stations & Marine Labs (FSML)

- Proposals accepted anytime

- NSF 21-501

<https://www.nsf.gov/pubs/2021/nsf21501/nsf21501.htm>



# Portal Enhancements

The Symbiota Support Hub was funded to support existing digitization and mobilization activities, not to develop new tools...

# Portal Enhancements → Funding Needed

The Symbiota Support Hub was funded to support existing digitization and mobilization activities, not to develop new tools...

...however, new tool development can be initiated with outside support.

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The Symbiota Support Hub was funded to support existing digitization and mobilization activities, not to develop new tools...

...however, new tool development can be initiated with outside support.

**So, if you want a specific tool, include funds for its development in your next digitization grant!**

# Including Symbiota development into your grant

1. Determine **need(s)/want(s)** for your portal
  - a. And appropriate funding sources: [symbiota.org/funding-ideas](https://symbiota.org/funding-ideas)
2. **Meet with Symbiota Support Hub** team to discuss possibilities and necessary funding.
3. With SSH help, **include portal development in budget**

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2. Meet with Symbiota Support Hub team to discuss possibilities and necessary funding.
3. **With SSH help, include portal development in budget**
  - a. **Three options:**
    - Collaborating institution
    - Subaward
    - Contracting

# No grant?

- Contracting available! → [help@symbiota.org](mailto:help@symbiota.org)



[biodiversity.ku.edu/products-services](http://biodiversity.ku.edu/products-services)

More about Symbiota sustainability planning: [symbiota.org/sustaining-symbiota-services](http://symbiota.org/sustaining-symbiota-services)

# Document “Wishlist” Items

Discussions tutorial:  
[symbiota.org/symbiota-discussions](https://symbiota.org/symbiota-discussions)

[github.com/Symbiota/  
community-board/discussions](https://github.com/Symbiota/community-board/discussions)

**Categories**

- View all discussions
- Announcements
- Funding
- General
- Polls
- Problems/Bugs
- Q&A
- Show and tell
- Wish List**

**Wish List**  
Share ideas for new features and tools

**Allow wildcard searching on catalog numbers on public search form**  
 1 **needs funding** **data discoverability**  
*ljwalker* started last week in [Wish List](#) 1

**Enhance existing functionality to bulk ingest genetic resource data**  
 1 **needs funding** **Extended Specimen**  
*ljwalker* started 2 days ago in [Wish List](#) 0

**Add dwc:georeferencedDate to user interface**  
 1 **data standards** **georeferencing**  
*ljwalker* started 4 days ago in [Wish List](#) 0

**Implement KML Upload options for polygon searching**  
 1 **maps** **data discoverability**  
*ljwalker* started 2 weeks ago in [Wish List](#) 1

**Enable sorting on Alternative Identifiers (otherCatalogNumbers)**

**Most helpful** Last 30 days

*ljwalker* 1

[Community guidelines](#)

# Contribute Data to Other Portals

- Add/transfer **algae**, **bryophyte**, **lichen**, and **fungi** data to their respective portals



The screenshot shows the Mycology Collections Portal (MyCoPortal) website. The header features the title "MYCOLOGY COLLECTIONS PORTAL" and a navigation menu with links for Home, Explore, Crowdsourcing, Checklist Projects, Other Resources, and Acknowledgements. The main content area includes a welcome message, a paragraph describing the portal as a suite of user-friendly tools for taxonomists and field biologists, and a featured image of a mushroom. A "News and Events" sidebar lists recent updates, including the release of a simplified names database and the NSF awarding a grant to enhance America's biodiversity collections. The footer contains contact information and a link to the Data Usage and Citation page.

MYCOLOGY COLLECTIONS PORTAL

Welcome to the Mycology Collections data Portal

The Mycology Collections data Portal (MyCoPortal) is more than just a web site - it is a suite of user-friendly, web-based data access technologies to aid taxonomists, field biologists, ecologists, educators, and citizen scientists in the study of fungal diversity. The data are derived from a network of universities, botanical gardens, museums, and agencies that provide taxonomic, environmental, and specimen-based information. Using the Symbiota (<http://symbiota.org>) system of virtual online floras, these data are directly accessible to dynamically generate geo-referenced species checklists, distribution maps, and interactive identification keys, all linked with a rich collection of digital imagery documenting fungal diversity of North America.

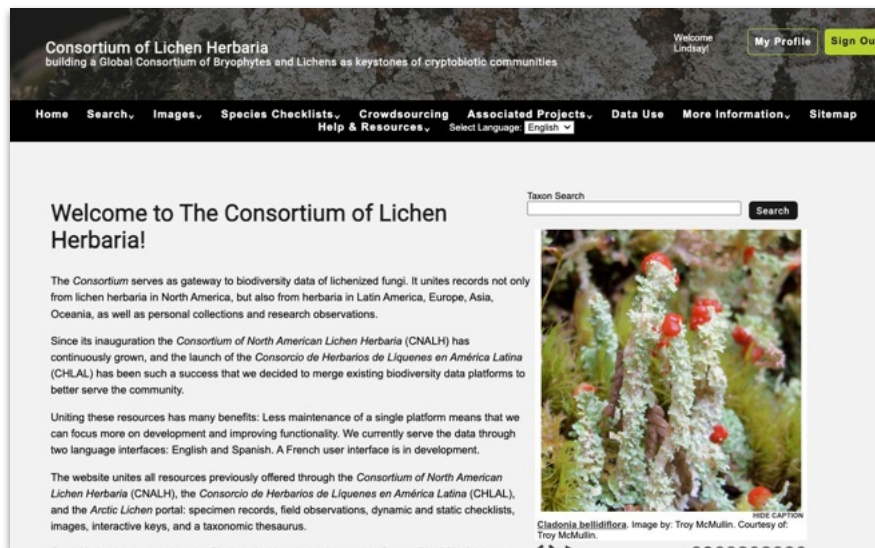
*Bolbitis hobbsii*. Image by: Charles Horton Peck. HIDE CAPTION

**News and Events**

- **Mycological Collections Consortium (MCC)** website now live
- **MCC**, a simplified names database, primarily for projecting taxonomic hierarchy for fungal taxa.
- **NSF Press Release (9/15/09)** - NSF awards fifth round of grants to enhance America's biodiversity collections.
- **NSF Press Release (9/12/09)** - US National Science Foundation awards support for The Macrofungi Collection Consortium, a collaboration of 35 institutions in 24 states for the purpose of databasing some 1.4 million dried scientific specimens of macrofungi. **NSF-0905012 (2/26/12)**.
- **December 2010** - 1,546,358 occurrence records supplied by 31 different data providers have been integrated into MyCoPortal.
- **NEBI** - MCC records are now part of the ZooMorse project. Notes from Nature. Please help us by transcribing specimen labels (0/0)
- Image provided by New York Botanical Garden.

Please join the Mycology Collections Portal as collaborators or regular visitors, and send your feedback to [info@mycoportal.org](mailto:info@mycoportal.org).

Data Usage and Citation



The screenshot shows the Consortium of Lichen Herbaria website. The header includes the title "Consortium of Lichen Herbaria" and a tagline "building a Global Consortium of Bryophytes and Lichens as keystones of cryptobiotic communities". It features a navigation menu with links for Home, Search, Images, Species Checklists, Crowdsourcing, Associated Projects, Data Use, More Information, and Sitemap. The main content area includes a welcome message, a paragraph describing the consortium as a gateway to biodiversity data, and a featured image of a lichen. A "News and Events" sidebar lists recent updates, including the release of a simplified names database and the NSF awarding a grant to enhance America's biodiversity collections. The footer contains contact information and a link to the Data Usage and Citation page.

Consortium of Lichen Herbaria  
building a Global Consortium of Bryophytes and Lichens as keystones of cryptobiotic communities

Welcome Lindsay! [My Profile](#) [Sign Out](#)

Home Search Images Species Checklists Crowdsourcing Associated Projects Data Use More Information Sitemap  
Help & Resources. Select Language: English

Welcome to The Consortium of Lichen Herbaria!

The Consortium serves as gateway to biodiversity data of lichenized fungi. It unites records not only from lichen herbaria in North America, but also from herbaria in Latin America, Europe, Asia, Oceania, as well as personal collections and research observations.

Since its inauguration the *Consortium of North American Lichen Herbaria* (CNALH) has continuously grown, and the launch of the *Consortio de Herbarios de Liqueños en América Latina* (CHLAL) has been such a success that we decided to merge existing biodiversity data platforms to better serve the community.

Uniting these resources has many benefits: Less maintenance of a single platform means that we can focus more on development and improving functionality. We currently serve the data through two language interfaces: English and Spanish. A French user interface is in development.

The website unites all resources previously offered through the *Consortium of North American Lichen Herbaria* (CNALH), the *Consortio de Herbarios de Liqueños en América Latina* (CHLAL), and the *Arctic Lichen* portal: specimen records, field observations, dynamic and static checklists, images, interactive keys, and a taxonomic thesaurus.

Taxon Search

*Cladonia bellidiflora*. Image by: Troy McMullin. Courtesy of Troy McMullin. HIDE CAPTION

Please join the Mycology Collections Portal as collaborators or regular visitors, and send your feedback to [info@mycoportal.org](mailto:info@mycoportal.org).

Data Usage and Citation



# Standing Opportunities

To summarize:

- Contact the Hub if you need help **publishing** your data to **GBIF**
- **Enhance your portal** (and the Symbiota code!) by including the Symbiota Support Hub in a **grant** or **contracting** through KU
- Contribute **algae, lichen, bryophyte, or fungi** data to other portals
- Display or take the **promotional poster** to a conference
- Participate in the monthly **Symbiota Support Group**

**CNH**

**Consortium of Northeastern Herbaria**

**Next week/weekend:**



*A forum for current research  
April 17–19, 2026*

*Doubletree by Hilton Hotel, Burlington, VT*

**Session:**

*The Consortium of Northeastern Herbaria (CNH):  
Advancing Collaboration, Digitization, Biodiversity Research and Conservation for Nearly 20 Years*

# What about the Symbiota Support Hub?

We're still here to help!  
**help@symbiota.org**

# Feedback survey

Please complete our brief post-campaign survey—*it's short!*

- [bit.ly/post-campaign-survey](https://bit.ly/post-campaign-survey)

Questions?