Bee Library
Portal Advancement Campaign

Office Hours - August 31, 2023

Introductions

Welcome, bee research community!

- Participants overview
  - 45 registrants!
  - US-based institutions, Belgium, and Brazil
  - Use the form to introduce yourself and your bee data
  - So far participants have reported...
    - Specimen data, observational data, phenological data
    - Data in spreadsheets, TaxonWorks, TEAMS, Ecdysis

- Add your information to the form: **bit.ly/bee-library-intros**

Agenda

1. Background
   a. Symbiota
   b. iDigBio & the Symbiota Support Hub
   c. Bee Library
2. Portal Advancement Campaign: goals and schedule
3. Why mobilize your data?
4. Bee Data Mobilization 101
5. Resources and services available

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

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What is Symbiota?

Open source software for creating **themed data portals** that help people **share** and **actively manage** biodiversity data.

What is a Symbiota portal?

Biodiversity data aggregator + **Collections Management System**

Open Source Software
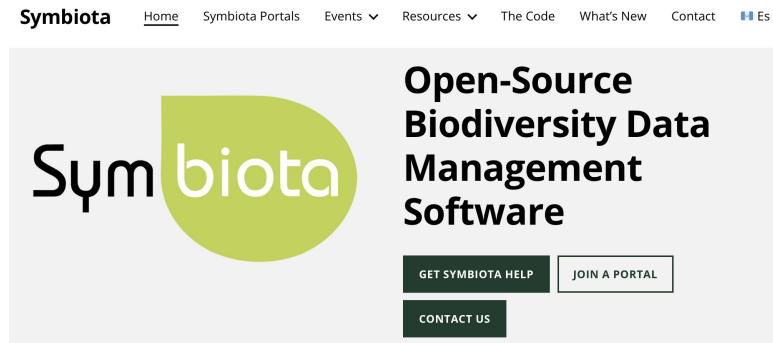
github.com/BioKIC/Symbiota

Symbiota Portal Landscape

66 portal communities served

- 54 hosted on ASU infrastructure, 53 updated to latest code base (Symbiota v3.0.10)

90.9 million records shared in SSH-hosted portals from >1,800 collections

- **1,040 live-managed collections** use Symbiota as their primary collections management system to curate 25.1 million specimen records
- **21 million edits** made by 1000+ users in the last year

Symbiota   Home   Symbiota Portals   Events ⌄   Resources ⌄   The Code   What's New   Contact   🇪🇸 Es

Sym biota

Open-Source Biodiversity Data Management Software

GET SYMBIOTA HELP   JOIN A PORTAL

CONTACT US

symbiota.org

Symbiota Portal Landscape

Themed portals with **communities** and **common goals** (digitization/data mobilization)

- Taxonomic
- Geographic
- Institutional
- Project-based

Portal Directory:

symbiota.org/symbiota-portals

Portal Advancement Campaigns

Macroalgae.org
Global Algal Collections

949k occurrences

61 collections

The Macroalgae Portal aggregates global algal collections. In 2022, this portal was migrated to ASU's servers, enabling full support for this portal by the Symbiota Support Hub.
Contact: Chris Neefus, chris.neefus@unh.edu
Google Group: groups.google.com/g/algae-collections-consortium

MidAtlanticHerbaria.org
Mid-Atlantic U.S. Herbaria (NY, NJ, PA, DE, MD, DC)

20 collections

2.6M+ occurrences

The MAHC portal was created for the Mid-Atlantic Megalopolis TCN to collaboratively digitize and aggregate occurrences of vascular plants collected in the urban corridor from New York City to Washington, DC.
Contact: Cindy Skema, midatlanticherbaria@gmail.com

Symbiota Support Hub

More campaigns coming next year!

ASU Biodiversity Knowledge Integration Center — Arizona State University

iDigBio — Integrated Digitized Biocollections

UF UNIVERSITY of FLORIDA

CAL POLY — San Luis Obispo

SoRoHerbaria.org
Southern Rocky Mountain Herbaria

5.5M+ occurrences

33 collections

The Consortium of Southern Rocky Mountain Herbaria primarily aggregates herbarium records Colorado, Wyoming, Montana, and Idaho. **Contact:** Ryan Allen, james.r.allen@colorado.edu

MyCoPortal.org
Global Fungal Collections

MYCOLOGY COLLECTIONS PORTAL

MyCoPortal is a large Symbiota portal community that aggregates fungal collections and observations contributed from the global mycological community. **Contact:** help@mycoportal.org
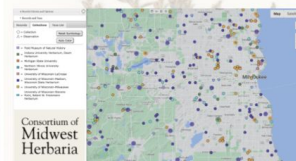
9.7M+ occurrences

153 collections

MidwestHerbaria.org
Midwestern U.S. (IL, IN, MI, MN, OH, WI)

3.2M+ occurrences

51 collections

Consortium of Midwest Herbaria

The Consortium of Midwest Herbaria collaboratively digitizes and aggregates occurrences of vascular plants housed in collections from states that border the western Great Lakes.
Google Group: groups.google.com/g/midwest-herbaria

SERNECportal.org
Southeastern U.S. Herbaria

The Southeast Regional Network of Expertise and Collections invites participation from herbaria located in the southeastern United States.

123 collections

5.5M+ occurrences

Contacts:
Herrick Brown, herrick.brown@gmail.com (SERNEC mailing list) and Michael Denslow, notesfrom nature.pm@gmail.com (Notes from Nature)

SERNEC
Southeast Regional Network of Expertise and Collections

TORCHherbaria.org
Texas & Oklahoma Herbaria

The TORCH Data Portal aggregates data from herbaria located in Texas and Oklahoma. Digitization activity is currently supported by the "American Crossroads" TCN (NSF 1902078 and others) led by the Botanical Research Institute of Texas.
Contact: Diego Barroso, dbarroso@brit.org

TORCH
Texas Oklahoma Regional Consortium of Herbaria

28 collections

2.4M+ occurrences

Pteridoportal.org
**Modern & Fossil Pteridophytes**

PTERIDOPHYTE

2.1M+ occurrences

50 collections

The Pteridoportal is the first Symbiota portal to commingle extant and fossil occurrence records. As the portal's taxonomic thesaurus was recently updated to include extinct and extant taxa, portal leadership is seeking taxonomic expertise to help curate this resource. **Contacts:** Carl Rothfels, carl.rothfels@usu.edu and Cindy Looy, looy@berkeley.edu

Symbiota Support Hub Team
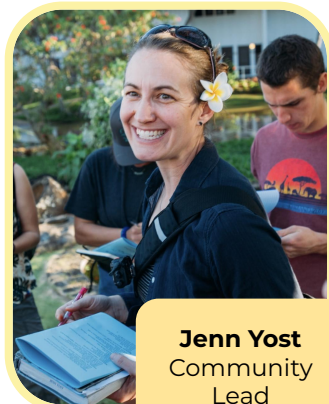
Jenn Yost
Community Lead

Katie Pearson
Project & Data Manager

Greg Post
IT & System Administrator

Samanta Orellana
Community Coordinator for Latin America

Lindsay Walker
Community Manager

Nico Franz
Management @ ASU

Logan Wilt
Developer

Ed Gilbert
IT Management Lead

Mark Fisher
Developer

Bee Library

- Bee Library started with support from the NSF for 13 US collections.
- Extending Anthophila research through image and trait digitization (Big-Bee) is a NSF 3-year grant, but aims to extend beyond grant.
- **Scope:** Global bee specimens and collections; research collections; observations (i.e., iNaturalist) and monitoring datasets
- **Time to expand participation!** All collections with bees and researchers with datasets are welcome to participate.
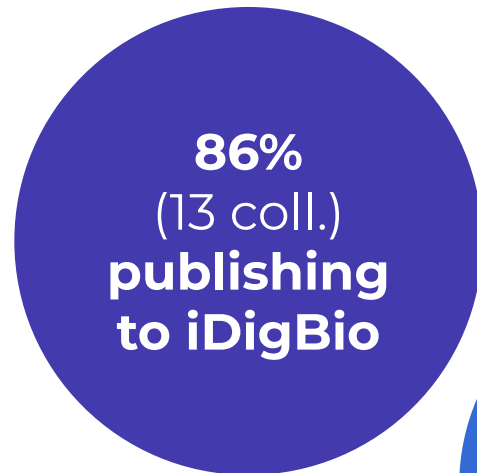

https://big-bee.net

Bee Library

An online resource connecting images, specimen records, and natural history information about bees.

Create checklists and research datasets

Image focused

Map search
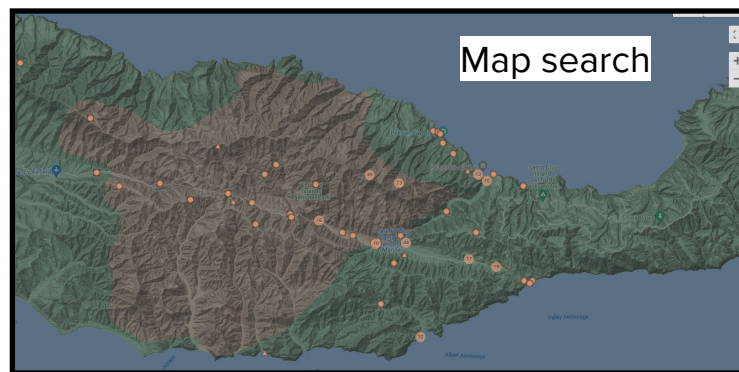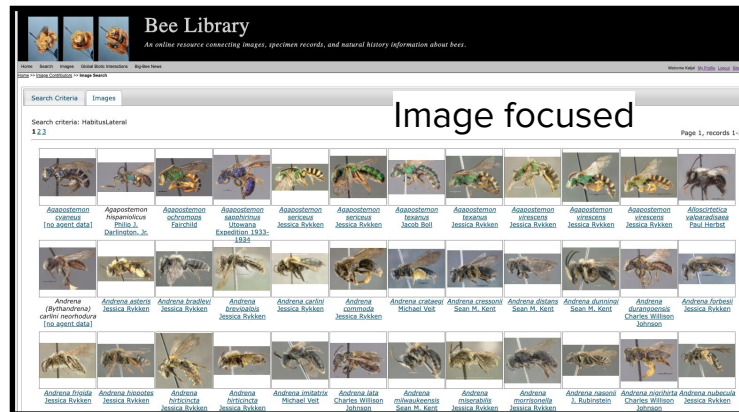
- Species pages that include trait data
- Discover Life based taxonomy (with synonyms)

Portal Stats

- 22 collections
  - 2 live-managed
  - 18 snapshots
- 1,697,151 occurrences
  - 428,284 (25%) total images
 - 1,398,184 (82%) georeferenced
  - 392,175 type specimens

(Stats as of August 2023)

86%
(13 coll.)
**publishing
to iDigBio**

89%
(16 coll.)
**publishing
to GBIF**

17

Current Contributors

Big-Bee Partner Collections
- ASU Hasbrouck Insect Collection
- Bee Biology and Systematics Laboratory,
  USDA-ARS Pollinating Insect-Biology, Management, Systematics Research
- California Academy of Sciences
- Essig Museum of Entomology, University of California Berkeley
- Florida State Collection of Arthropods
- Museum of Comparative Zoology, Harvard University
- Natural History Museum of Los Angeles County
- San Diego Natural History Museum Entomology Department
- University of California Santa Barbara Invertebrate Zoology Collection
- University of Colorado Museum of Natural History
- University of Kansas Natural History Museum Entomology Division
- University of Michigan Museum of Zoology Division of Insects
- University of New Hampshire, Donald S. Chandler Entomological Collection
- USGS Native Bee Inventory and Monitoring Lab
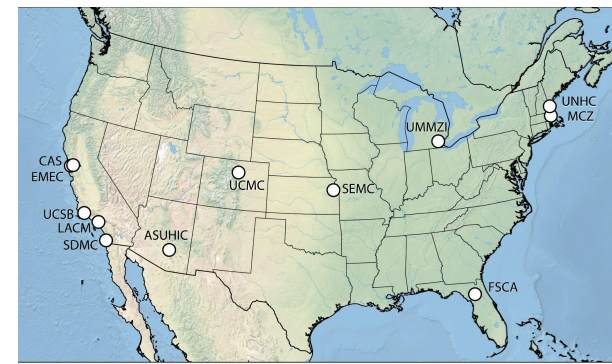
Current Contributors

- **External Bee Data Providers**
  - New Brunswick Museum
  - Smithsonian Institution, National Museum of Natural History, Entomology Collection
  - iNaturalist Research-Grade Observations **<- research grade observations**

- **Project-based and individual research collections**
  - The Bees they are a Changin project **<- postdoc research project**
  - Collaborative databasing of North American bee collections within a global informatics network project **<- dataset from prior bee digitization effort**
  - UCSB material examined **<- research project**

Suggestions welcome:
bit.ly/new-portal-contributors

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Portal Advancement Campaign: Goals

- Build capacity in portal community
  - Training and improved documentation
  - Troubleshooting to overcome current roadblocks
  - **Incorporation of data from collections/datasets not currently in the portal**

Portal Advancement Campaign: Goals

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  - Ensure metadata is up to date
  - Provide data cleaning services
  - Discuss duplicate georeferencing harvesting protocols

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  - Provide data cleaning services
  - Discuss duplicate georeferencing harvesting protocols
- Discuss next steps
  - Identify and incorporate portal improvements or desired modules
  - Identify current needs and potential avenues for future support from iDigBio and/or SSH

What we need from you:

- Bring out your data!
- Provide feedback
- Ask questions
- Let us know how we can help

Portal Advancement Campaign: Schedule

- **Aug. 31:** Campaign Orientation
  - Intro to the campaign & Bee Library
  - Collections vs. Observational data
    - Management types in Symbiota
- **Sept. 7:** Bee Data Mobilization Part I
  - *Bring your data and questions!*
- **Sept. 16:** Bee Data Mobilization Part II
  - *Bring your data and questions!*
  - Datasets & Checklists

**Thursdays
at 1:00 PM**
Pacific/AZ

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Bee Library &
The Data Publishing Ecosystem

Observations + Preserved Specimens

gbif.org

Why mobilize (share) your data?

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

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- You can **cite your dataset** as a product that you (and your collaborators) created and should **get credit for**

Evan Waite Invertebrate Collection (EWIC-EWIC)

🐦 39 citations | 🍃 collectors & determiners 11

🍃 collectors & determiners 11

DOI 10.5281/zenodo.6774592

The personal research collection of Evan S. Waite focuses primarily on ground beetles (Coleoptera: Carbaidae Latreille, 1802) of North America though specimens from other families an geographic locations are present as well. Currently housed at the Arizona State University Biocollections, this collection is part of my ongoing dissertation work. A special thank you to Courtney Curtis of CotinisCreative for designing and creating the EWIC logo.

Contacts: Evan Waite, waitesevan@gmail.com

Collection Type: Preserved Specimens

Management: Live Data managed directly within data portal

Global Unique Identifier: ff59ebc1-27ef-4137-adec-ca4b673496c7

DwC-Archive Access Point: https://ecdysis.org/content/dwca/EWIC-EWIC_DwC-A.zip

Live Data Download: DwC-Archive File

Digital Metadata: EML File

Usage Rights: CC0 1.0 (Public-domain)

GBIF Dataset page: http://www.gbif.org/dataset/8b0665a6-e35f-4d57-a493-481111d15f14

Cite this collection:

Evan Waite Invertebrate Collection. Occurrence dataset (ID: ff59ebc1-27ef-4137-adec-ca4b673496c7) https://ecdysis.org/content/dwca/EWIC-EWIC_DwC-A.zip accessed via the Ecdysis Portal, ecdysis.org, 2023-08-16).

Collection Statistics

Can link to publications and create new versions

Why mobilize (share) your data?

- Greater access to your data → greater visibility for your project
- Allows other researchers to compile combined datasets and do science
- You can cite your dataset as a product that you (and your collaborators) created and should get credit for
- If you subsequently share to GBIF from a portal, you can take advantage of their **citation tracking** tools and **data quality flags**

OCCURRENCE DATASET | REGISTERED APRIL 12, 2017

Arizona State University Charles W. O'Brien Collection

Published by Arizona State University Biocollections

DATASET   METRICS   ACTIVITY   ⬇ DOWNLOAD

49,835 OCCURRENCES   112 CITATIONS

The Charles W. O'Brien Collection (legacy coden: CWOB) is now (August, 2018) relocated to Tempe, Arizona, and contains approximately one million weevil specimens (Coleoptera: Curculionoidea sensu Bouchard et al. 2011), with a global range and emphasis on New World (and Neotropical) regions. Lois B. O'Brien - a planthopper specialist - has made invaluable contributions to this collection. In 2017, Arizona State University entered an agreement with the O'Briens to gradually transfer and permanentl...   More

Publication date: July 31, 2023
Metadata last modified: July 31, 2023
Hosted by: Symbiota Support Hub
Licence: CC0 1.0
99 How to cite   DOI 10.15468/eeqtx0

49,835 Occurrences

99.7% With taxon match

99.6% With coordinates

99.7% With year

49,649 GEOREFERENCED RECORDS

+
-

DATASET   METRICS   ACTIVITY   ⬇ DOWNLOAD

173,869 OCCURRENCES   73 CITATIONS

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
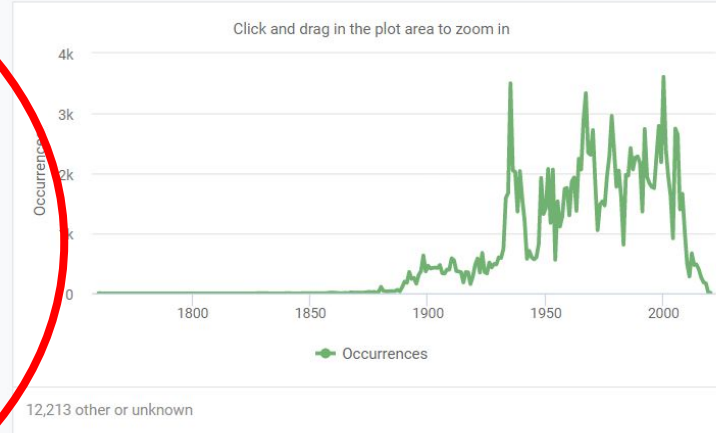
Click and drag in the plot area to zoom in

4k
3k
2k

0
1800   1850   1900   1950   2000

Occurrences

12,213 other or unknown

36

Why mobilize (share) your data?

- Greater access to your data → greater visibility for your project
- Allows other researchers to compile combined datasets and do science
- You can cite your dataset as a product that you (and your collaborators) created and should get credit for
- If you subsequently share to GBIF from a portal, you can take advantage of their citation tracking tools and data quality flags
- **Other reasons? Put yours in the chat!**
  - *Question from introductions form:* Does sharing data to the Bee Library supersede opportunities to share in other places? → Nope!

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Bee Data Mobilization 101

2 ways to manage data in a Symbiota portal (like the Bee Library)

Bee Data Mobilization 101

2 ways to manage data in a Symbiota portal (like the Bee Library)

1. **Live manage**
2. **Snapshot upload**

Bee Data Mobilization 101

2 ways to manage data in a Symbiota portal (like the Bee Library)

1. **Live manage:** the portal is your database
2. Snapshot upload

Bee Data Mobilization 101

2 ways to manage data in a Symbiota portal (like the Bee Library)

1. **Live manage:** the portal is your database
2. **Snapshot upload:** a copy of your data is displayed in the portal

Live manage: data entry, editing, and cleaning

California Channel Islands Beetles (CCIB:CCIB)

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

Collector Info

<<

Catalog Number ?
UAIC1062306

Tag Name (optional) ?

Additional Identifier Value

Collector / Observer ?   Number ?   Date ?   [Duplicates]
                                                              ☐ Auto search

Associated Collectors ?   Verbatim Date ?

Latest Identification

Scientific Name ?   Author ?
Blapstinus coronadensis   Blaisdell

Identification Qualifier ?   Family ? Tenebrionidae

Identified By ?   Date Identified ?

Locality

Country ?   State/Province ?   County ?   Municipality ?   Location ID ?
United States   California   San Diego

Locality ?
North Island

Security: [Security not applied ▾] ?   ☐ Deactivate Locality Lookup

Latitude   Longitude   Uncertainty ?   Datum ?   Verbatim Coordinates ?
32.697274   -117.199201   5421   [C] [F] WGS84   <<

Elevation in Meters ?   Verbatim Elevation ?   Depth in Meters ?   Verbatim Depth ?
        -        <<   -

Label Processing

Zoom?   ✛ ≡   Rotate: L <> R   ● Med Res.   ○ High Res.

SanDiegoCo.
Calif. X-5-30
North Is.

Ian Moore
Collector

Blapstinus
coronadensis
12224 Blais.

12224   D. K. Duncan
            Collection

B. coronadensis, Bl

UAIC
1062306
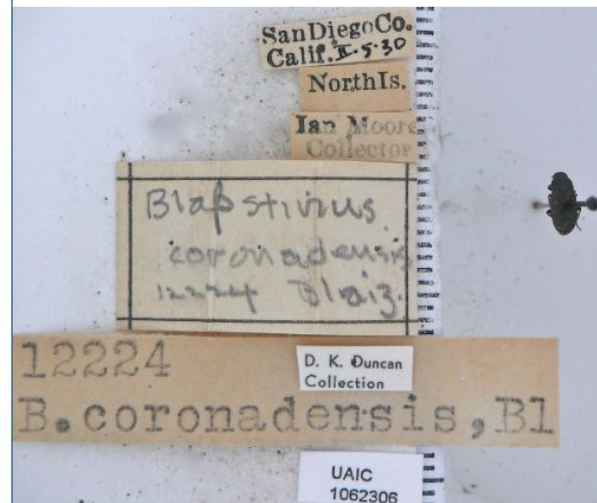
Image 1 of 1

Tesseract OCR

☐ OCR whole image
☐ OCR w/ analysis

[OCR Image]

Live manage: data entry, editing, and cleaning

- Resolving #10: *Dinothenarus luteipes* (Staphylinidae) [22 specimens 🖉]
  - Checking **Catalog of Life**...
    - Taxon not found
  - Checking close matches in thesaurus...
    - *Diaphorus luteipes* => remap to this taxon
    - *Dicranomyia luteipes* => remap to this taxon
    - *Dicranoptycha luteipes* => remap to this taxon
    - Manual search: [   ] **Remap**

- Resolving #11: *Eronyxa angustus* (Trogossitidae) [29 specimens 🖉]
  - Checking **Catalog of Life**...
    - Taxon not found
  - Checking close matches in thesaurus...
    - *Eronyxa angusta* => remap to this taxon
    - *Eremaeus megistos* => remap to this taxon
    - *Erirhinus moestus* => remap to this taxon
    - *Erirhinus mucidus* => remap to this taxon
    - *Eureum cimicoides* => remap to this taxon
    - *Eurynysius meschioides* => remap to this taxon
    - Manual search: [   ] **Remap**

- Resolving #12: *Eronyxa expansus* (Trogossitidae) [2 specimens 🖉]
  - Checking **Catalog of Life**...
    - Taxon not found
  - Checking close matches in thesaurus...
    - *Eronyxa expansa* => remap to this taxon
    - *Erirhinus affinis* => remap to this taxon
    - *Erronus affinis* => remap to this taxon
    - *Eurema javanica* => remap to this taxon
    - *Eurymesosa affinis* => remap to this taxon
    - Manual search: [   ] **Remap**

California Academy of Sciences (CAS-ENT)

This collection is a snapshot of an external collection database where only the Bee (Apoidea:Anthophila) records are included.

Collection Manager: Christopher Grinter, cgrinter@calacademy.org (ORCID #: 0000-0002-3769-1664)

Collection Type: Preserved Specimens

Management: Data snapshot of local collection database

Last Update: 24 July 2023

IPT / DwC-A Source: CAS IPT import with BeeFilter
Import from Monarch-off

Digital Metadata: EML File

Usage Rights: CC0 1.0 (Public-domain)

Collection Statistics

- 884 specimen records
- 300 (34%) georeferenced
- 3 (0.34%) with images (16 total images)
- 843 (95%) identified to species
- 6 families
- 23 genera
- 18 species
- 18 total taxa (including subsp. and var.)

Bee Data Mobilization 101

- The Bee Library mostly follows Darwin Core: https://dwc.tdwg.org/

↻ **Collection Manager Guide**

- Joining an Existing Portal

  - Management Types

  - Managing Multiple Portals

- Collection Statistics

- Comments on Records

- Crowdsourcing

  - Adding Specimens to Crowdsourcing Queue

  - Removing Specimens from Crowdsourcing Queue

  - Reviewing and Approving Crowdsourcing

- Paleo Data

- Data Citations

Data Import Fields

> ⓘ **Note**
>
> This page lists the possible specimen fields that can be imported into a Symbiota data portal. The type of field (text, number, etc.) is listed in the **Type** field. The number of characters allowed in that field is displayed in parentheses.

If the data portal is being used to displaying a "snapshot" of your data stored in your local central database, the upload file MUST have a field that serves as the unique identifier for each incoming specimen record (dbpk). This field serves a link between the source record and the snapshot record within the portal. If import is a CSV file, the first row must contain field names. Note that field names do not have to match the name used below, but there cannot be any characters ($#@&%) in the column names.

For more information about data fields, also see our Symbiota Data Fields page.

Italic = Darwin Core fields
Bold = strongly encouraged fields, though none of the fields are technically required
* = for import only, merged into another field after import

Name	Type	Notes

-docs/

Bee Data Mobilization 101

Your first step:

- Do I want to manage my data in a Symbiota portal, or just upload a copy?

Manage live in Ecdysis → send snapshot to Bee Library

Bee Data Mobilization 101

To import data into Bee Library (or another Symbiota portal), you just need to know:

- **What data do I have?**

Bee Data Mobilization 101

To import data into Bee Library (or another Symbiota portal), you just need to know:

- What data do I have?
- **What data do I want to have displayed in the portal?**

Bee Data Mobilization 101

To import data into Bee Library (or another Symbiota portal), you just need to know:

- What data do I have?
- What data do I want to have displayed in the portal?
- **Are there are localities I would like to redact?**

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- **Are there images I would like to associate with my records?**

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- Are there are localities I would like to redact?
- Are there images I would like to associate with my records?
- **What is the primary unique identifier for my records?**

Bee Data Mobilization 101

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- What data do I have?
- What data do I want to have displayed in the portal?
- Are there are localities I would like to redact?
- Are there images I would like to associate with my records?
- What is the primary unique identifier for my records?

    The **Symbiota Support Hub will then help you** get what you have into the portal.

Bee Data Mobilization 101

If your data are in a single spreadsheet, we can help create:

- Saved mapping profile (which column goes in what field?)
- Associated stored procedure (to convert your data into a different format for import, etc.)

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From then on, as long as you use the **same format** as the initial spreadsheet and uses the **same unique identifiers**, you can update your data whenever you want.

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symbiota.org/docs

YouTube Channel

bit.ly/
symbiota-recordings
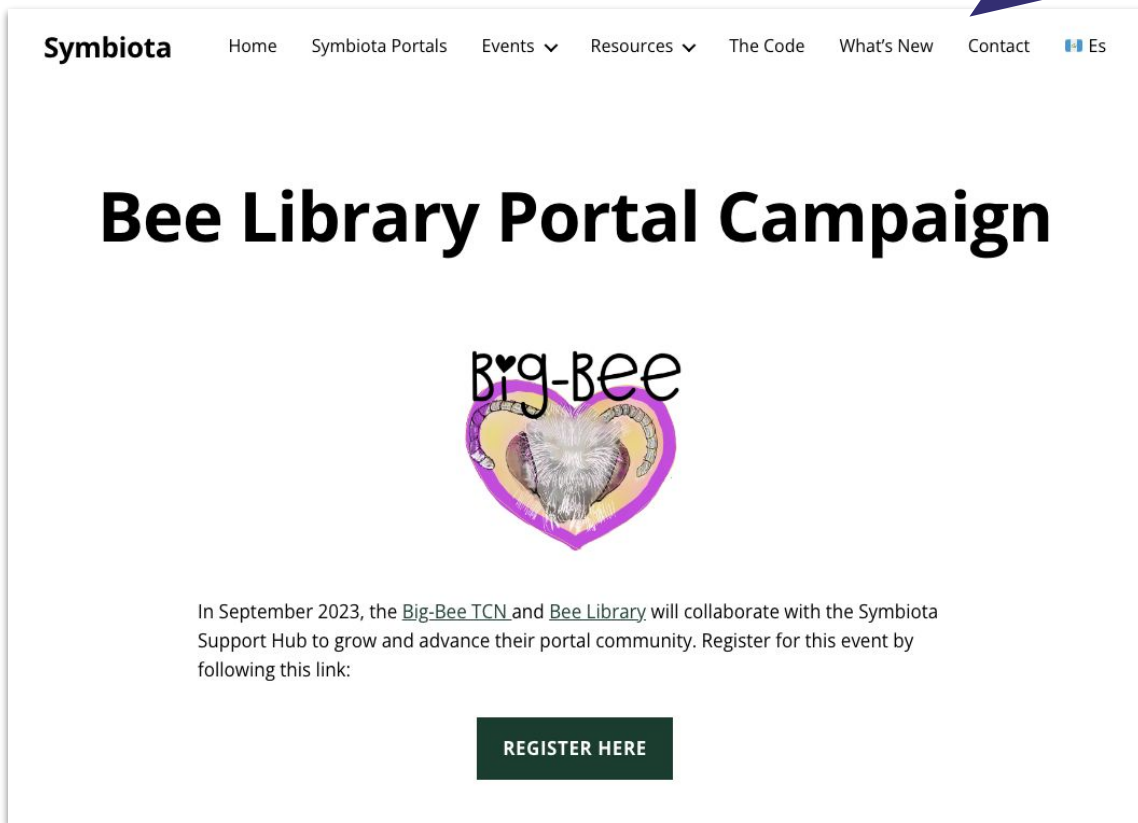
Any materials you'd like to add?

Let us know!

Campaign Docs

Symbiota Discussions

BioKIC / **symbiota-docs** Public

Unwatch ▾ 6 | ☆ Star 0 | ⅄ Fork 0

<> Code | ⊙ Issues 12 | ⅃⅃ Pull requests | 💬 Discussions | ▷ Actions | ▦ Projects 2 | ▯ Wiki | ⊘ Security | ⟋ Insights | ⚙ Settings

General
Welcome to symbiota-docs Discussions!
👤 arbolitoloco

Announcements
We are the Symbiota Support Hub
👤 themerekat

🔍 Search all discussions | New | Top: All ▾ | Answered | Unanswered | Label ▾ | **New discussion**

Categories ✎

∞ **View all**

📣 Announcements

🏅 Funding

💬 General

🙏 Q&A

↑ 0 | 💡 **Add catalog number to label printing tools**
themerekat started 5 days ago in Wish List | 💬 0
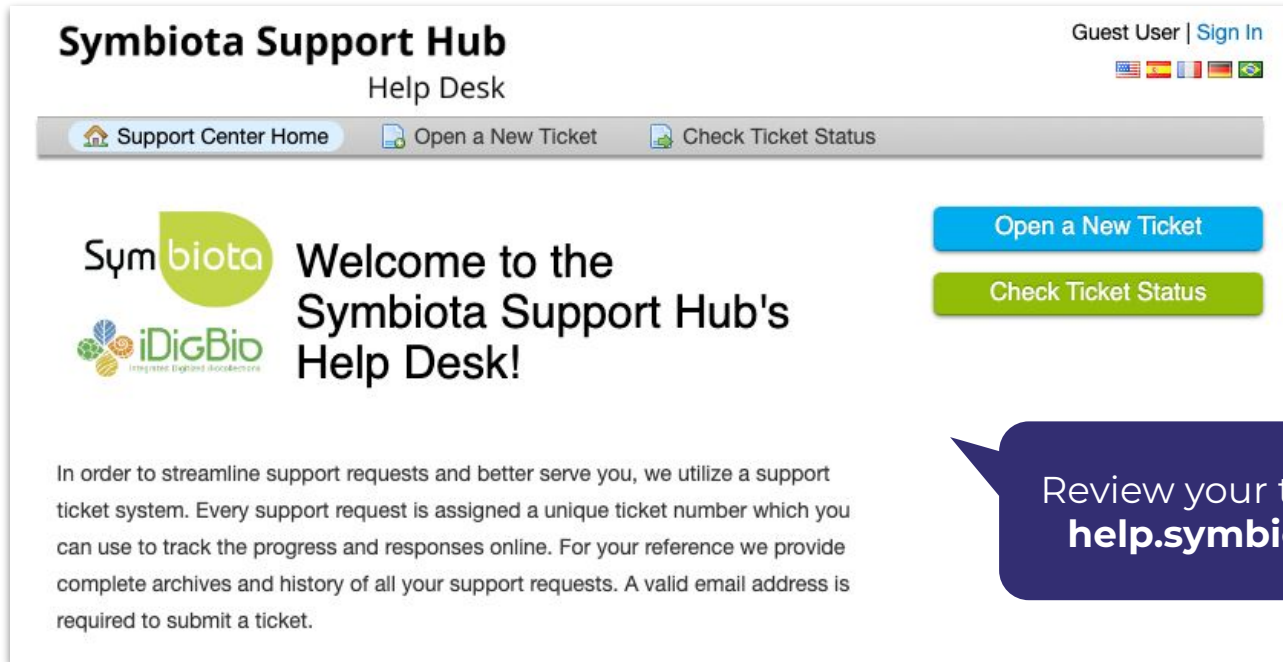
↑ 1 | 📣 **We are the Symbiota Support Hub**
themerekat announced 5 days ago in Announcements

↑ 1 | 💬 **Welcome to symbiota-docs Discussions!**
arbolitoloco started on Mar 15 in General

Discussions tutorial:
symbiota.org/symbiota-discussions

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Help Desk Support

- Contact the Symbiota Support Hub at **help@symbiota.org**

Review your tickets at **help.symbiota.org**

Help Desk Support

- Contact the Symbiota Support Hub at **help@symbiota.org**
- The Symbiota Support Hub can help with backend tasks.
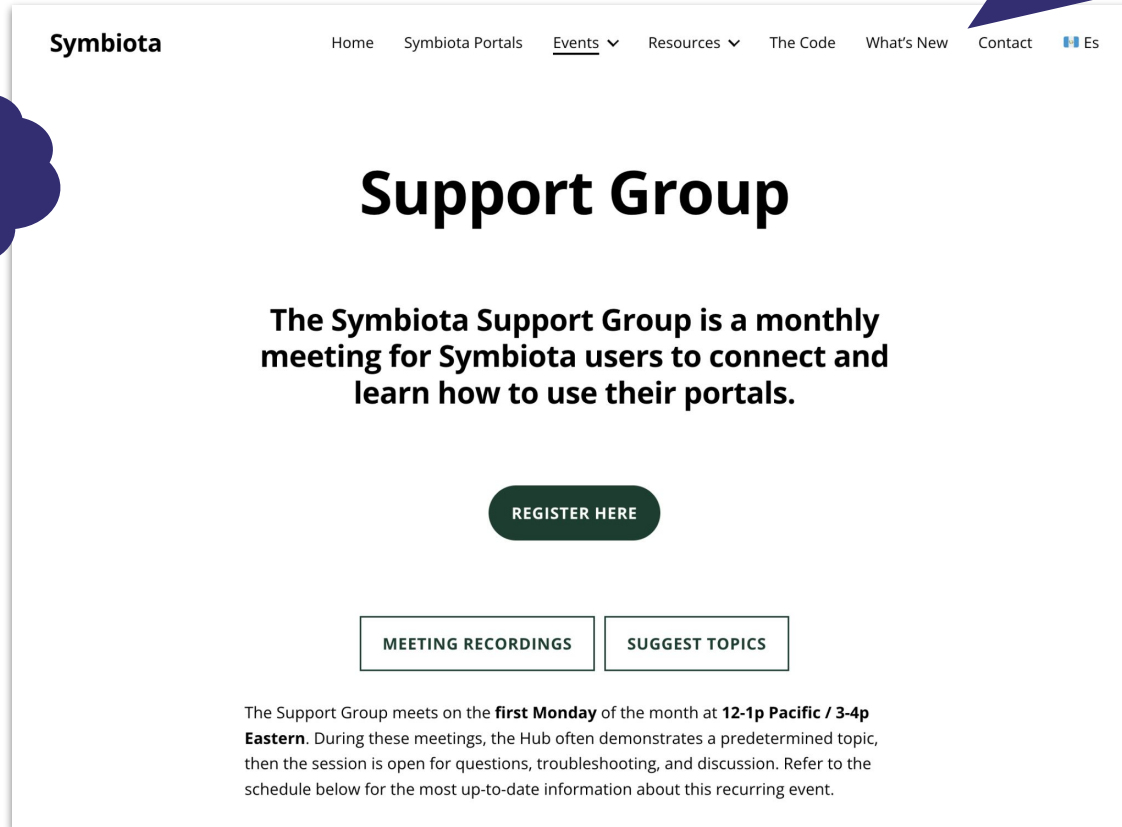
Quick links to all resources are on our website: **symbiota.org/help-resources**

Monthly Support Meetings

symbiota.org/
symbiota-support-group

1st
Mondays

Symbiota   Home   Symbiota Portals   Events ⌄   Resources ⌄   The Code   What's New   Contact   🇬🇹 Es

Support Group

The Symbiota Support Group is a monthly meeting for Symbiota users to connect and learn how to use their portals.

REGISTER HERE

MEETING RECORDINGS   SUGGEST TOPICS

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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Upcoming

Add hub@symbiota.org to your contacts

Dear Bee Library Portal Campaign registrants,

Thank you for registering for the Bee Library Portal Campaign. The Symbiota Support Hub (SSH) and leadership of the Bee Library, a Symbiota data portal, look forward to working with you in the coming weeks. During this event, we'll introduce you to the Symbiota software project, related SSH services, your data mobilization and publication options using Symbiota, and the greater data ecosystem to which the Bee Library belongs.

For planning purposes, we would like to gather some information about your bee data in advance of this event. **Please fill out some introductory details about yourself, your bee collections, and your associated data using our** Participant Introductions form:

Participant Introductions Form

If you're ready to **share a dataset or example of your data**, please do so here (*messy*

Next meeting: Thurs, Sept. 7 @ 1:00 PM Pacific/AZ

Homework:

- **Assess whether your data are appropriate for the Bee Library** (not sure? Email help@symbiota.org & seltmann@ucsb.edu)
  - ✓ Physical specimen collections with identifiers
  - ✓ Observational data
- **Upload your dataset** to Google Drive, or email us:
  - **bit.ly/bee-library-datasets**
  - Add an introduction (and file name) to the participants form to accompany your data: bit.ly/bee-library-intros

Bee Library
Portal Advancement Campaign

Office Hours - September 14, 2023

Agenda

1. New data contributors
2. Data publishing
3. Creating Datasets (lists of *occurrences*)
4. Creating Checklists (lists of *taxa*)

Agenda

1. **New data contributors**
2. Data publishing
3. Creating Datasets (lists of *occurrences*)
4. Creating Checklists (lists of *taxa*)

New Collections

- Connecticut Agricultural Experiment Station
- Hannah Kernen Collection
- Maine State Museum
  - Brianne Du Clos Collection
- Natural History Museum of Utah
- New Zealand Arthropod Collection
- Rutgers University
- UC Sagehen Creek Field Station
- Southeast Missouri State
- Texas Tech University
- University of Arizona
  - UA Insect Collection
  - RL Minckley Insect Collection
- Virginia Tech
- William Murphy Collection
+ *others in progress*

110,211 new records!
(more coming soon)

Southeast Missouri State University

VT VIRGINIA TECH.

A

MAINE STATE MUSEUM
Meet Maine here.

NATURAL HISTORY MUSEUM OF UTAH
Rio Tinto Center | University of Utah

T

External, Project-Based, and Individual Research Collections: AFTER

Agenda

1. New data contributors
2. **Data publishing**
3. Creating Datasets (lists of *occurrences*)
4. Creating Checklists (lists of *taxa*)

Bee Library &
The Data Publishing Ecosystem

Observations + Preserved Specimens

gbif.org

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."

How do I publish to GBIF?

GBIF Structure

GBIF Structure
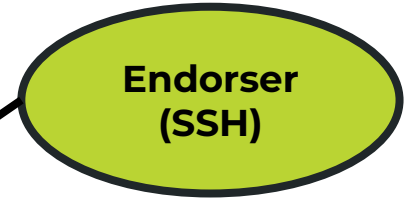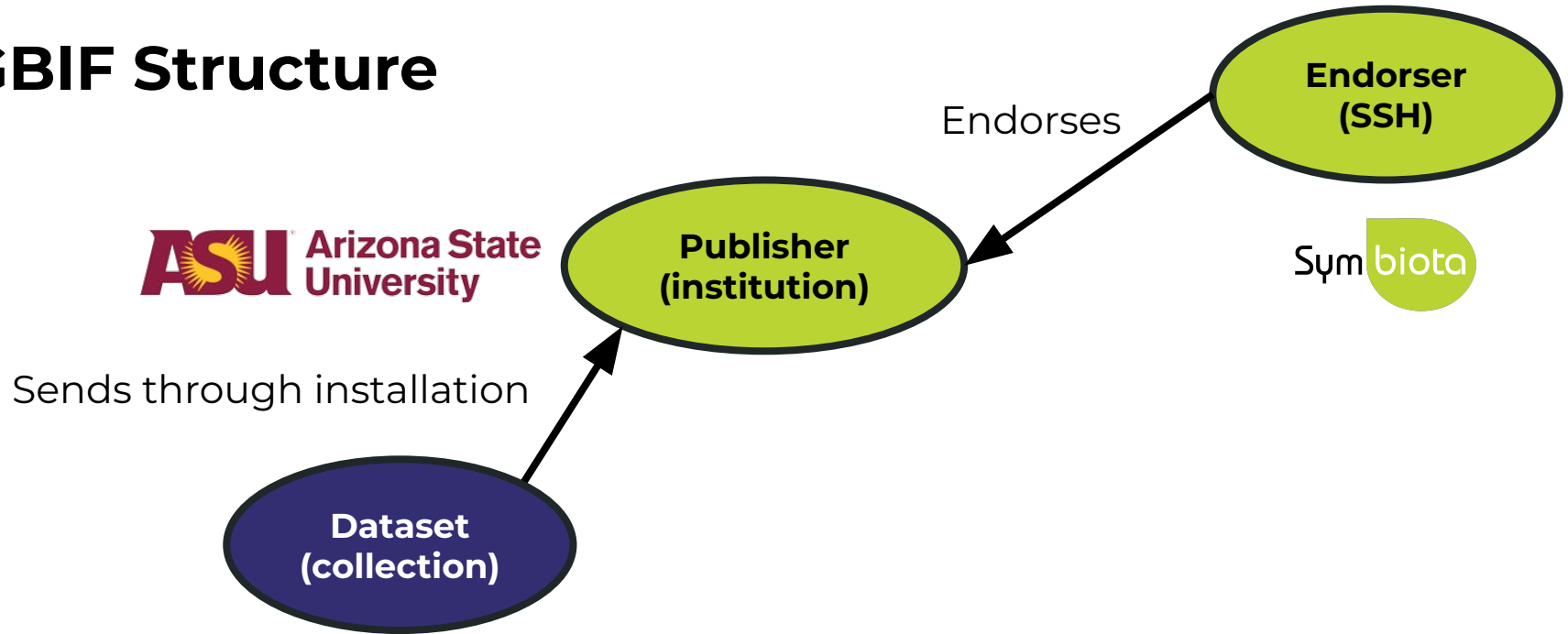
Publisher (institution)

Endorses

Endorser (SSH)

GBIF Structure

Endorser (SSH)

Endorses

Publisher (institution)

Sends through installation

Dataset (collection)

Arizona State University Mammalogy Collection

Consortium of
Small
Vertebrate
Collections

GBIF Structure
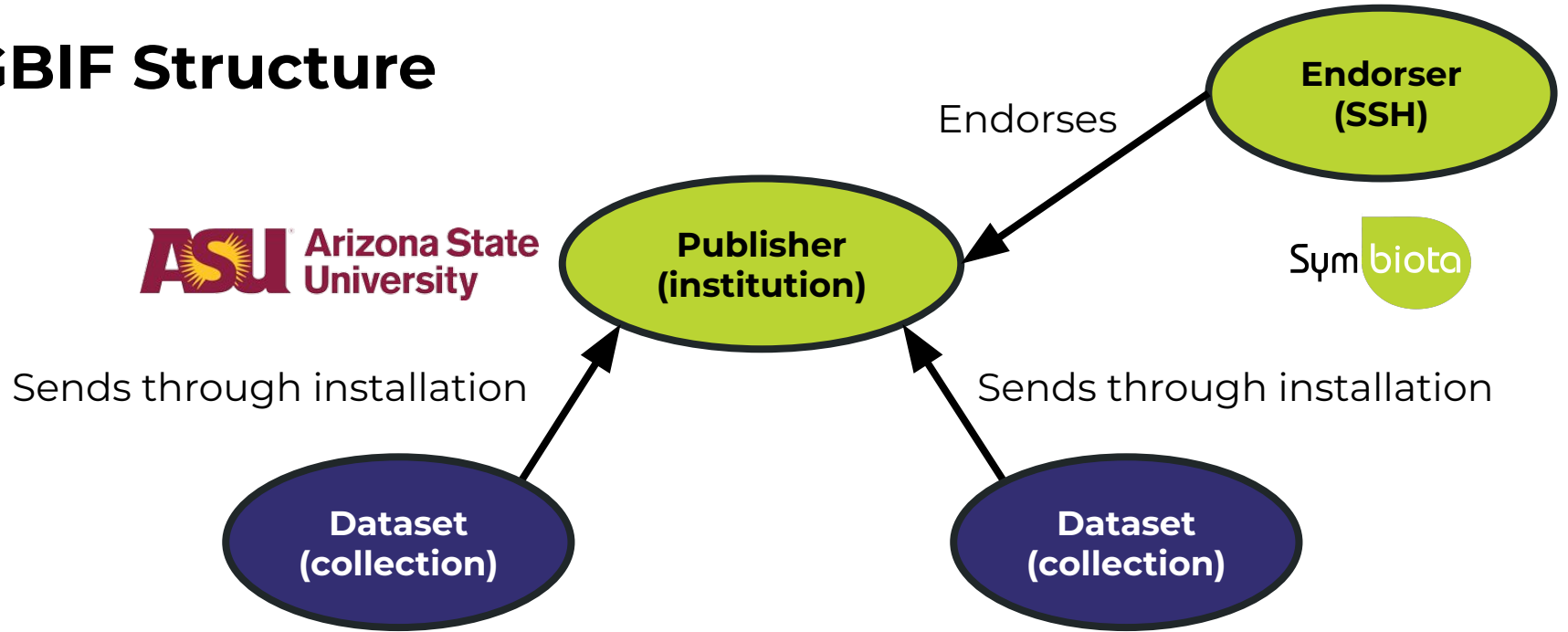
Endorser (SSH) — Endorses → Publisher (institution)

Sends through installation — Dataset (collection) → Publisher (institution)

Sends through installation — Dataset (collection) → Publisher (institution)

Arizona State University Mammalogy Collection

Arizona State University Vascular Plant Herbarium

Consortium of
Small
Vertebrate
Collections

SEINet Arizona - New Mexico Chapter

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

© OpenStreetMap contributors

CONTACTS

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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
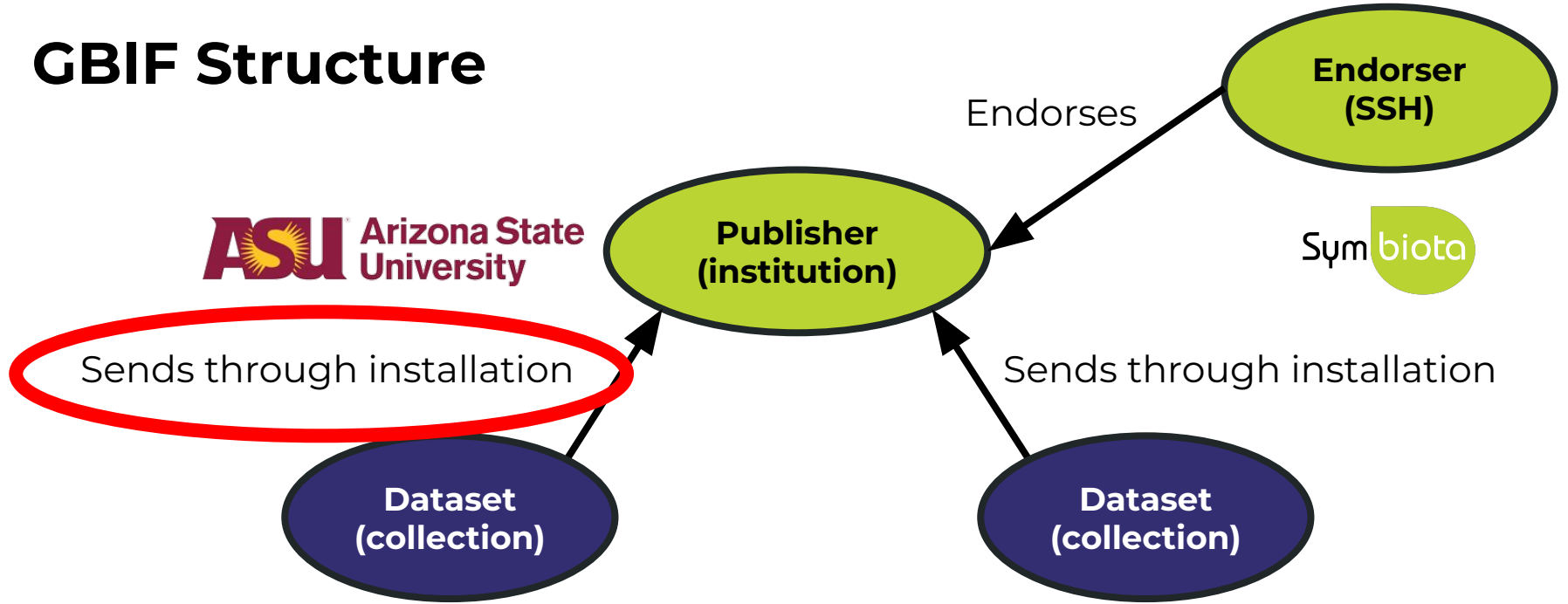
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GBIF Structure

Endorses

Publisher
(institution)

Endorser
(SSH)

Sends through installation

Sends through installation

Dataset
(collection)

Dataset
(collection)

Arizona State University Mammalogy Collection

Arizona State University Vascular Plant Herbarium

Consortium of
Small
Vertebrate
Collections

How to publish to GBIF

- You can send your data to GBIF using a Symbiota portal **OR** an Integrated Publishing Toolkit (IPT)
- You can use someone else's IPT (e.g., VertNet, iDigBio), or install and manage your own IPT

How to publish to GBIF

- Fortunately, **if your data are in a Symbiota portal, you don't need an IPT.**
- Publishing is as easy as clicking a button, once you are registered with GBIF!

Publishing to GBIF from a Symbiota portal

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

Home >> Collection Search Page >> **Collection Profile**

Arizona State University Vascular Plant Herbarium (ASU-Plants)

⚲ 548 citations

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 Cactaceae which include over 1,100 chromosome counts.

An herbarium is a collection of pressed, dried, and archived plants that are systematically arranged - each specimen a physical record of a plant growing at a particular place and at a particular time. Like most herbaria, we seek to document the geographical and ecological distribution of the regional flora, facilitate research, support teaching, and promote conservation. Vouchers from floristic studies have resulted in comprehensive collections of many important geographic regions in Arizona.

ASU Type Specimens: http://swbiodiversity.org/seinet/checklists/checklist.php?cl=2638

Administration Control Panel

- View Posted Comments
- Edit Metadata
- Manage Permissions

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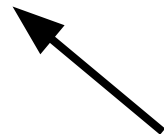
This page allows you to search for your institution to see if it's already registered.

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

SSH can (and wants to) endorse you!
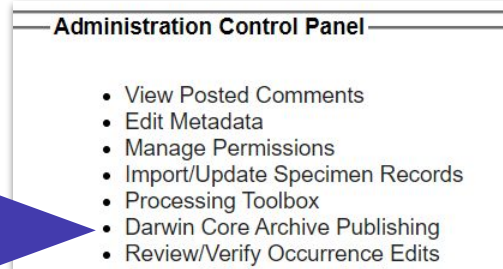
Publishing to GBIF from a Symbiota portal

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) 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**
- Push the button to refresh: "**Create/Refresh Darwin Core Archive**"
  - Portal managers will do this regularly
  - Data that are redacted in your Symbiota portal will also be redacted in GBIF

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

The Hoover Herbarium houses 85,000+ specimens of vascular plants, algae, lichens, and bryophytes. The geographic focus is San Luis Obispo areas of California, other states of the US, particularly Arizona, and some from other regions of the world, especially Mexico. Emphasis areas in collections include Robert F. Hoover (1946–1969), David J. Keil (1966–present), Rhonda Riggins (1970s–2000), Tracy Call (mostly Apiaceae—I extensively in undergraduate teaching and training.

Important Collections: Robert F. Hoover (1946–1969), David J. Keil (1966–present), Rhonda Riggins (1970s–2000), Tracy Call (mostly Apiaceae

Director and Associate Professor: Jenn Yost, jyost@calpoly.edu

Curator: Katie Pearson, kdpearso@calpoly.edu

Homepage: http://bio.calpoly.edu

Collection Type: Preserved Specimens

Management: Live Data managed directly within data portal

Global Unique Identifier: 3818d95b-b6a4-11e8-b408-001a64db2964

DwC-Archive Access Point: https://cch2.org/portal/content/dwca/OBI_DwC-A.zip

Live Data Download: DwC-Archive File

Digital Metadata: EML File

Usage Rights: CC BY-NC (Attribution-Non-Commercial)

GBIF Dataset page: http://www.gbif.org/dataset/f56df26e-73f5-4d37-bfed-3d46c0834e82

Address: Robert F. Hoover Herbarium 🖊
            Biological Sciences Department, California Polytechnic State University
            San Luis Obispo, CA   93407-0401
            USA
            (805) 756-5869

Collection Statistics

- 93,149 specimen records
- 64,830 (70%) georeferenced
- 81,168 (87%) with images (81,417 total images)
- 89,512 (96%) identified to species
- 400 families
- 2,673 genera
- 11,464 species
- 14,186 total taxa (including subsp. and var.)

Important notes

- **Snapshots can be published from the Bee Library**
  - Make sure your institution does not have a preference for using an IPT
  - Do not publish from the Bee Library if you live manage in *Ecdysis*

What about iDigBio?

- Once you've published to GBIF, publishing to iDigBio is **very easy**
- The SSH can facilitate publishing to iDigBio for everyone who publishes to GBIF. **Please let us know if you would like to opt out of publishing to iDigBio.**

Agenda

1. New data contributors
2. Data publishing
3. **Creating Datasets (lists of *occurrences*)**
4. Creating Checklists (lists of *taxa*)

Datasets

- Saved lists of **occurrences**
- Can be created in different ways in the interface, but most importantly: occurrences in search results can be added to Datasets

Datasets

Saved lists of **occurrences** to use for:

- Future reference (private)
- Sharing with colleagues (public)
- Programmatic analyses (private/public)
- Data cleaning (private/public)
- Specimens used in publications (public)
- Featured specimens selected by arbitrary theme (public)

Datasets - Examples

- [NEON Biorepository Public Datasets](#)
- [SEINet Public Datasets](#)

Datasets

More information here:

https://biokic.github.io/symbiota-docs/user/dataset/

Agenda

1. New data contributors
2. Data publishing
3. Creating Datasets (lists of *occurrences*)
4. **Creating Checklists (lists of *taxa*)**

Checklists

Saved lists of **taxa**

May or may not be linked to **occurrences**

Checklists

Saved lists of **taxa** to use for:

- Faunal lists / inventories / surveys
- Preparation for bioblitzes, inventory efforts, or field trips
- Teaching, learning, professional development

All public checklists in the Bee Library:
https://library.big-bee.net/portal/checklists/index.php

Checklist Features

- View a checklist by scientific names, common names, images in the image library, or a combination of these options
- Link voucher specimens from the Symbiota portal
- Manage notes (either public or private) associated with taxa in the checklist
- Use identification and name recognition/spelling games (study aids)
- Use identification keys consisting of only taxa from the checklist

Creating Checklists

- From an existing list
- Dynamically in the portal from occurrence records

Checklists

More information here:

https://biokic.github.io/symbiota-docs/user/checklist/

Last call!

It's not too late!

- Assess whether your data are appropriate for the Bee Library
  - ✓ Physical specimen collections with identifiers
  - ✓ Observational data
- Upload your dataset to Google Drive, or email us:
  - bit.ly/bee-library-datasets

Need help?
Email help@symbiota.org & seltmann@ucsb.edu

Feedback survey

https://bit.ly/post-campaign-survey

Questions?