iDigBio
Integrated Digitized Biocollections

Day 1

iDigBio Orientation

Break-out Session

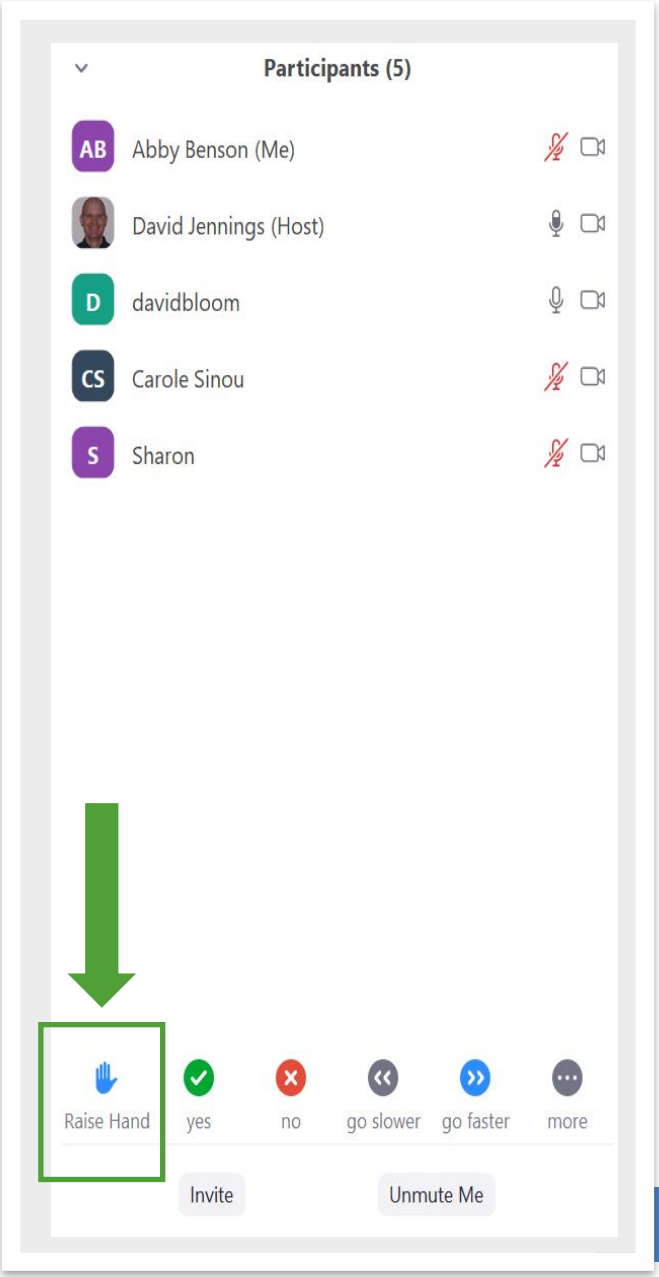
Break-out Follow-up Discussion

Meet and Greet for New TCNs and PENs

iDigBio is funded by grants from the National Science Foundation's Advancing Digitization of Biodiversity Collections Program [DBI-1115210 (2011-2018) and DBI-1547229 (2016-2021)]. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

Protocols and Norms

- Session is being recorded
- Please keep yourself muted when not speaking
- Use Chat for questions
  - or raise your hand via the Participants tab



Welcome to ADBC!

The iDigBio Team
ADBC Summit 2020

iDigBio is funded by grants from the National Science Foundation's Advancing Digitization of Biodiversity Collections Program [DBI-1115210 (2011-2018) and DBI-1547229 (2016-2021)].

Agenda

- **Introduction** – Gil
- **Acronyms** – Erica
- **Resources** – Jill/Molly
- **Get Involved** – Alnycea
- **TCN Responsibilities** – David
- **Getting Data to iDigBio** – Cat

iDigBio, Coordinating Center for NSF's Program to Improve Accessibility to Specimen-based Data in U.S. Biodiversity Collections

22 September 2020

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Florida Museum of Natural History
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iDigBio: 10th Year

Began summer 2011

Renewal fall 2016

Principal Investigators:

Gil Nelson, Director (FLMNH)

David Blackburn, EODI Collaborations (FLMNH)

José Fortes, Cyberinfrastructure (UF/ACIS)

Austin Mast, Digitization, Training, & Citizen Science (FSU)

Pam Soltis, Research Collaborations (FLMNH)

Context: Biodiversity Collections

Institutional collections in U.S. date back to 1812, with some specimens collected 250 years ago

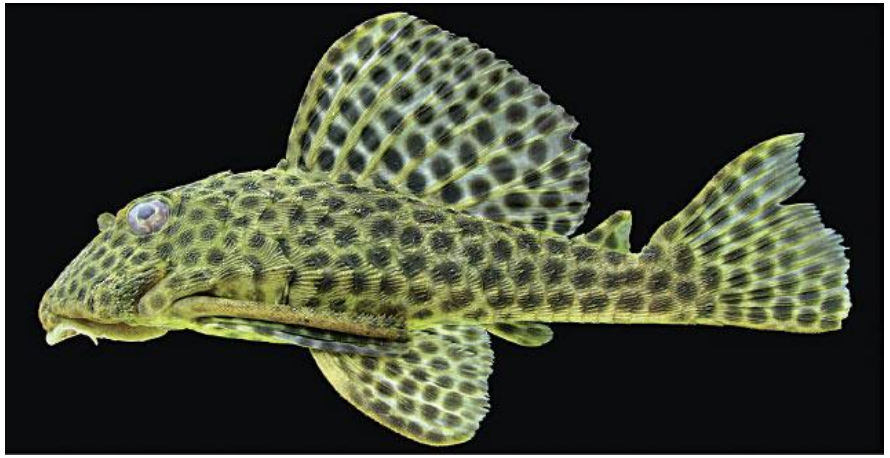
~1,591 collections in USA

~1 billion specimens in USA

~3 billion specimens globally

Context: Biodiversity Collections

The largest source of information on biological diversity (outside nature)

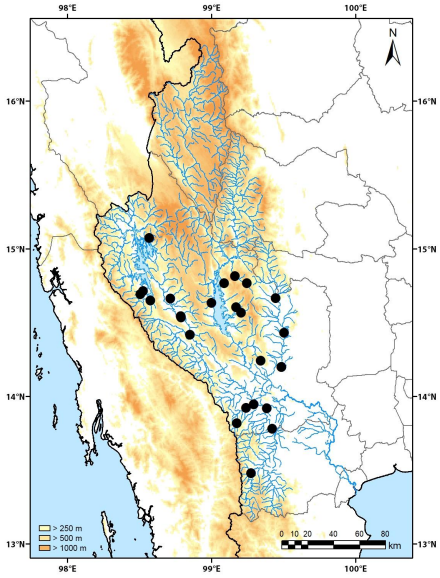


Context: Biodiversity Collections

<u>Until now</u>: Data in collections have been inaccessible to most potential users

Cerceris compacta

Natural History Collections are fundamental to understanding biodiversity and to address "Big Science" questions:

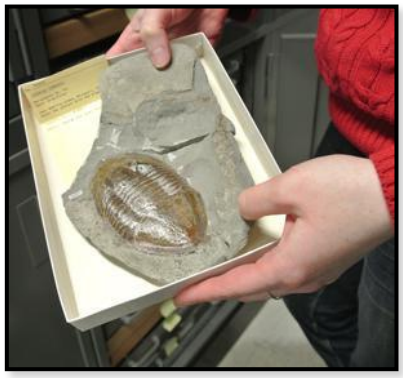


- **How many species are there?**
- **How are species distributed on the planet, and why?**
- **How do species vary, and what factors are responsible?**
- **Etc.**

Specimens of extinct species

– only source of information on those species

– paleoenvironments



NSF's Advancing Digitization of Biodiversity Collections Program, based on the national digitization effort as outlined in NIBA Strategic Plan, was launched in 2010 with the goal:

To digitize and make available online data associated with all specimens in all non-federal natural history collections in the U.S.

Funding:

1. Thematic Collections Networks (TCNs)
2. Partners to Existing Networks (PENs)
3. Central coordinating unit (iDigBio)

1. Thematic Collections Networks

- **Two-to-four year awards to collaborating institutions to digitize existing specimens based on a research theme**

- **Institutions digitize and mobilize the specimen-based data (but not necessarily pursue the research)**

- **Major emphasis has been on databasing, georeferencing, and imaging**

2. Partners to Existing Networks

- **Awards that fund additional collections critical to answering TCN questions.**

29 Thematic Collections Networks (TCNs)
48 Partners to Existing Networks (PENs)

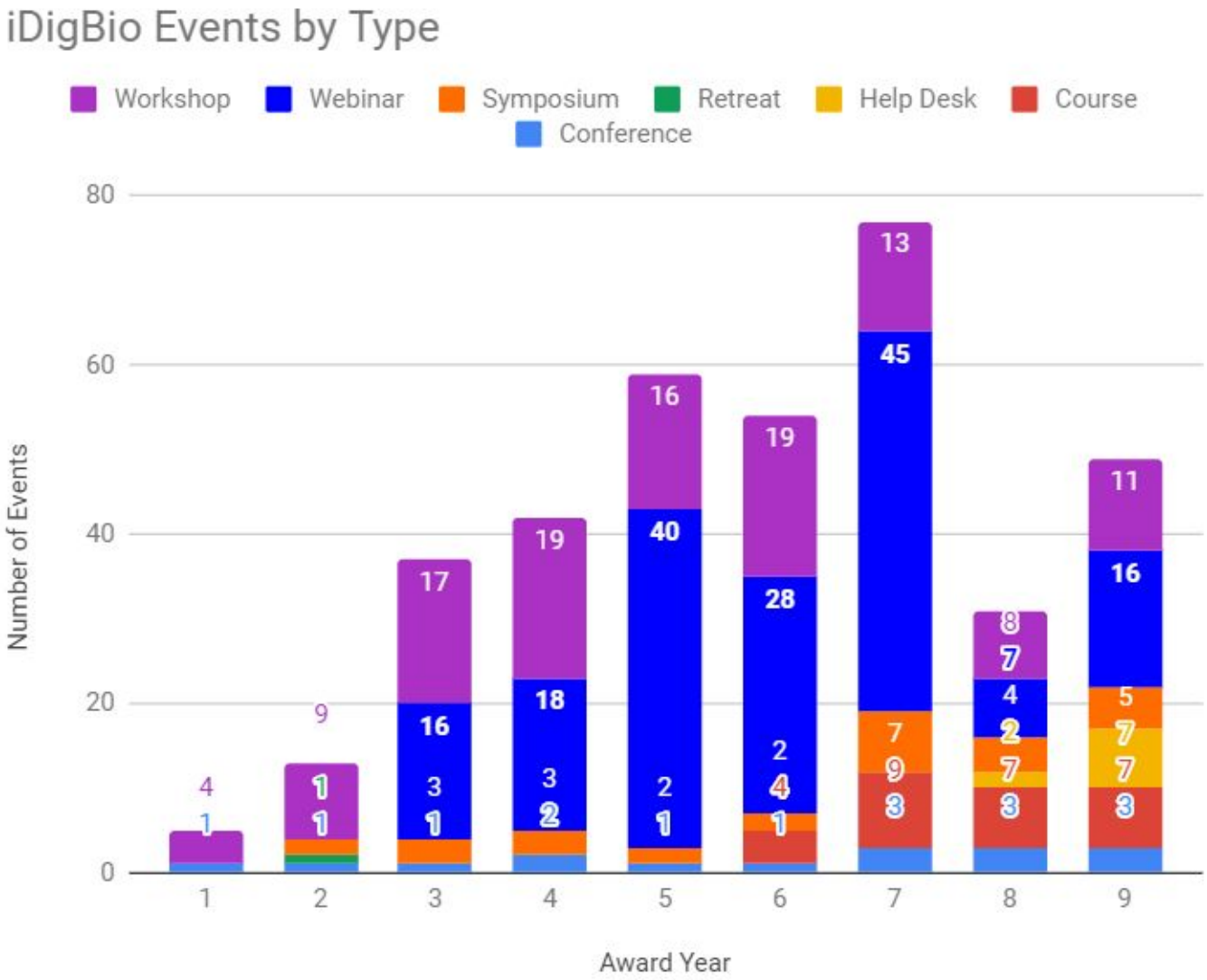
- **InvertNet**: An Integrative Platform for Research on Environmental Change, Species Discovery and Identification (*Illinois Natural History Survey, University of Illinois*)
- **Plants, Herbivores, and Parasitoids**: A Model System for the Study of Tri-Trophic Associations (*American Museum of Natural History*)
- **North American Lichens and Bryophytes**: Sensitive Indicators of Environmental Quality and Change (*University of Wisconsin Madison*)
- **Digitizing Fossils** to Enable New Syntheses in Biogeography-Creating a PALEONICHES-TCN (*University of Kansas*)
- **The Macrofungi Collection Consortium**: Unlocking a Biodiversity Resource for Understanding Biotic Interactions, Nutrient Cycling and Human Affairs (*New York Botanical Garden*)
- **Mobilizing New England Vascular Plant Specimen Data** to Track Environmental Change (*Yale University*)
- **Southwest Collections of Arthropods Network** (SCAN): A Model for Collections Digitization to Promote Taxonomic and Ecological Research (*Northern Arizona University*)
- **The Macroalgal Herbarium Consortium**: Accessing 150 Years of Specimen Data to Understand Changes in the Marine/Aquatic Environment *(University of New Hampshire*)
- Developing a Centralized Digital Archive of **Vouchered Animal Communication Signals** (*Cornell University*)
- **Fossil Insect Collaborative**: A Deep-Time Approach to Studying Diversification and Response to Environmental Change (*University of Colorado at Boulder*)
- **Great Lakes Invasives**: Documenting the Occurrence through Space and Time of Aquatic Non-indigenous Fish, Mollusks, Algae, and Plants Threatening North America's Great Lakes (*University of Wisconsin Madison*)
- **InvertEBase**: Reaching Back to See the Future: Species-rich Invertebrate Faunas Document Causes and Consequences of Biodiversity Shifts (*Field Museum of Natural History*)
- **The Key to the Cabinets**: Building and Sustaining a Research Database for a Global Biodiversity Hotspot (*Appalachian State University*)
- **The Microfungi Collections Consortium**: A Networked Approach to Digitizing Small Fungi with Large Impacts on the Function and Health of Ecosystems (*INHS, University of Illinois*)
- **Documenting Fossil Marine Invertebrate Communities of the Eastern Pacific:** Faunal Responses to Environmental Change over the last 66 million years (University of California-Berkeley)
- **Cretaceous World**: The Cretaceous World: Digitizing Fossils to Reconstruct Evolving Ecosystems in the Western Interior Seaway (*University of Kansas*)
- **LepNet**: Lepidoptera of North America Network: Documenting Diversity in the Largest Clade of Herbivores (*Northern Arizona University*)
- **MAM**: The Mid-Atlantic Megalopolis: Achieving a greater scientific understanding of our urban world (*University of Pennsylvania*)
- **SoRo**: Using Herbarium Data to Document Plant Niches in the High Peaks and High Plains of the Southern Rockies (*University of Colorado*)
- **oVert**: Open Exploration of Vertebrate Diversity in 3D (*University of Florida*)
- **Capturing California's Flowers**: Using Digital Images to Investigate Phenological Change in a Biodiversity Hotspot (*California Polytechnic State University San Luis Obispo*)
- **The Pteridological Collections Consortium**: An Integrative Approach to Pteridophyte Diversity Over the Last 420 Million Years (*University of California – Berkeley*)
- **Digitizing "Endless Forms"**: Facilitating Research on Imperlied Plants with Extreme Morphologies (*New York Botanical Garden*)
- Digitizing Collections to **Trace Parasite-Host Associations** and Predict the Spread of Vector-Borne Disease (*Purdue University*)
- American Crossroads: **Digitizing the Vascular Flora of the South-Central United States** (*Botanical Research Institute of Texas*)
- **Enhancing Access to Taxonomic and Biogeographical Data** to Stem the Tide of Extinction of the Highly Imperiled Pacific Island Land Snails (*Bernice P. Bishop Museum*)
- Building a **global consortium of bryophytes and lichens**: keystones of cryptobiotic communities (*University of Tennessee Knoxville*)
- Mobilizing Millions of **Marine Mollusks of the Eastern Seaboard** (*Field Museum of Natural History*)
- Documenting Marine Biodiversity through **Digitization of Invertebrate Collections**: DigIn (*Los Angeles County Museum of Natural History Foundation*)

3. National Coordinating Center (DigBio)

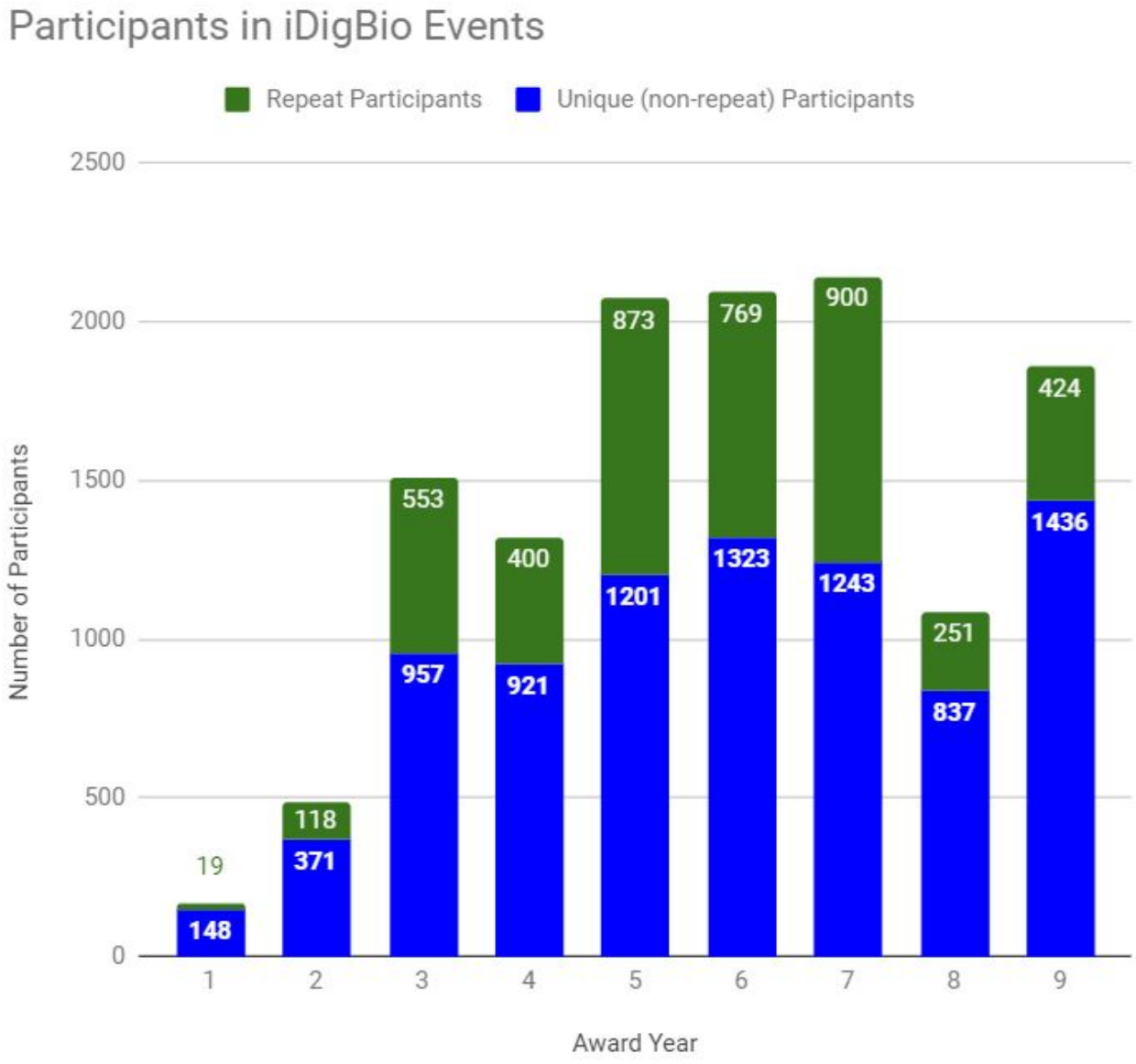
- **Engage the collections community** – find the specimens
- **Enable digitization of biodiversity collections data**
  - Develop efficient & effective standards & workflows
  - Workforce education & training via workshops/webinars

- **Provide portal access to biodiversity data**
  - Enable data access & discoverability
  - Respond to cyberinfrastructure needs
- **Promote use of data to address environmental and economic challenges**
  - Researchers, educators, general public, policy-makers, etc.
- **Assist in planning long-term sustainability of national digitization effort**

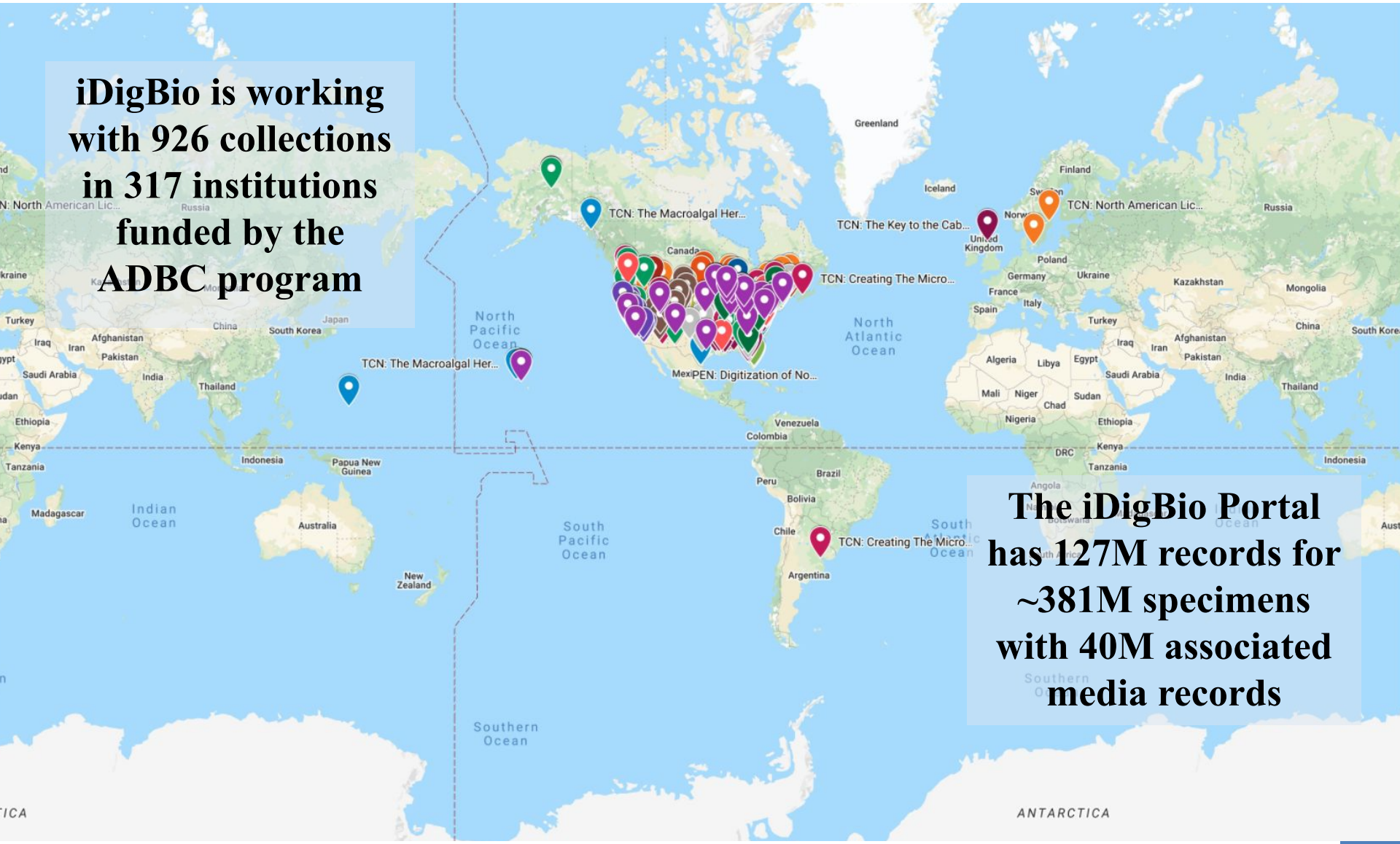
All of this has required iDigBio to engage the collections community through workshops, webinars, and other events to develop workflows, train IT and collections staff, mobilize data, etc.



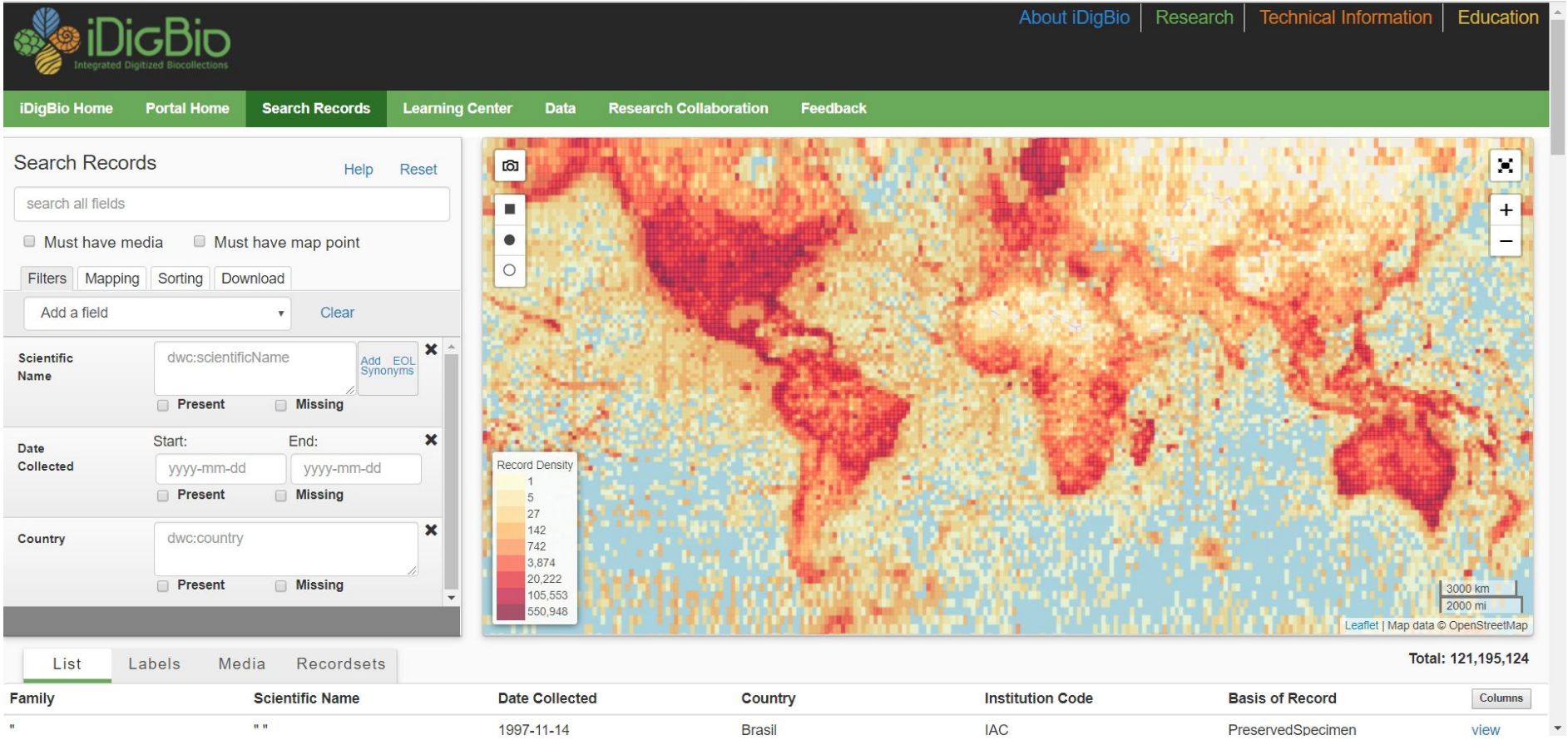
367 Total Events



12,744 Total Participants


iDigBio is working with 926 collections in 317 institutions funded by the ADBC program
The iDigBio Portal has 127M records for ~381M specimens with 40M associated media records
TCN: The Macroalgal Her...
TCN: The Macroalgal Her...
TCN: Creating The Micro...
MexPEN: Digitization of No...
TCN: The Key to the Cab...
TCN: North American Lic...
TCN: Creating The Micro...
Greenland
Canada
Russia
China
Japan
South Korea
India
Thailand
Indonesia
Papua New Guinea
Australia
New Zealand
Madagascar
Indian Ocean
North Pacific Ocean
South Pacific Ocean
Southern Ocean
North Atlantic Ocean
Iceland
Finland
Poland
Germany
France
Spain
Italy
Ukraine
Kazakhstan
Mongolia
Turkey
Iraq
Iran
Afghanistan
Pakistan
Saudi Arabia
Algeria
Libya
Egypt
Mali
Niger
Chad
Sudan
Nigeria
Ethiopia
Kenya
Tanzania
DRC
Angola
Venezuela
Colombia
Peru
Brazil
Bolivia
Chile
Argentina
ANTARCTICA

Flexible search across all data, indexed fields, media, geolocation, map boundary, auto-completion, synonyms, and a robust API



https://www.idigbio.org/portal

View search results as list, labels, or media

List | Labels | Media | Recordsets

Total: 188,896

Family	Scientific Name	Date Collected	Country	Institution Code	Collected By	Locality	Occurrence ID	Catalog Number	Columns
Suberitidae	Tuberella aaptos	1899-10-19	Puerto Rico	USNM	United States Fish Commis...	Mayaguez Harbor	http://n2t.net/ark:/65665/33f...	7662	view
Pieridae	Abaeis nicippe	1981-10	Puerto Rico	UPRM	Emmer, J. C.	Guayanilla	23df77d9-ccb0-11e4-8f8b-0...	4626	view
Pieridae	Abaeis nicippe	11/15/81	Puerto Rico	UPRM	De Jesèªs, L.	Ponce	23df7219-ccb0-11e4-8f8b-0...	4624	view
Pieridae	Abaeis nicippe	11/15/87	Puerto Rico	UPRM	De Jesèªs, L.	Ponce	23df79b7-ccb0-11e4-8f8b-0...	4627	view
Pieridae	Abaeis nicippe	9/4/89	Puerto Rico	UPRM	Blanco, J.	Aguadilla	23aa6184-ccb0-11e4-8f8b-...	820	view
Pieridae	Abaeis nicippe	11/14/48	Puerto Rico	UPRM	Torres, C.	Mayaguez	23df75f4-ccb0-11e4-8f8b-0...	4625	view
Caligidae	Abasia sp.	1977-10-07	Puerto Rico	USNM	S. Altchuler	La Parguera	http://n2t.net/ark:/65665/3e...	266843	view
Delphacidae	Abbrosoga errata	1914-07-27	PUERTO RICO	AMNH	Unknown	Maricao	urn:uuid:886a07f8-d8e1-11...	UDCC_TCN 00016869	view
Delphacidae	Abbrosoga errata	1947-11-14	Puerto Rico	USNM	*no data*	Toro Negro Mt.; P.R.	http://n2t.net/ark:/65665/3e...	*no data*	view
Delphacidae	Abbrosoga errata	1962-07-01	PUERTO RICO	USNM	J. Maldonado Capriles	Puntita	urn:uuid:28ab0c86-ca62-11...	UDCC_TCN 00042679	view
Delphacidae	Abbrosoga errata	1999-08-08	PUERTO RICO	LBOB	C. W. O'Brien & P. Kovarik	Hwy 120, km 14, Miricao St	urn:uuid:93afd71e-ca62-11...	UDCC_TCN 00042678	view

List | Labels | Media | Recordsets

Abbrosoga errata Caldwell & Martorell,1951 — *Delphacidae*

PUERTO RICO, Maricao, none, Maricao
Lat: 18°10' 58" **Lon:** -66°58' 49"
AMNH, UDCC_TCN 00016869, Unknown

Animalia, Arthropoda, Insecta, Hemiptera 1914-07-27

Abelmoschus moschatus medik. Medik. — *Malvaceae*

Puerto Rico, Mayagüez (MITA).
Lat: 18°12' 15" **Lon:** -67°6' 1"
NY, 01007392, A. H. Liogier

Plantae, Tracheophyta, Magnoliopsida, Malvales 1981-03-

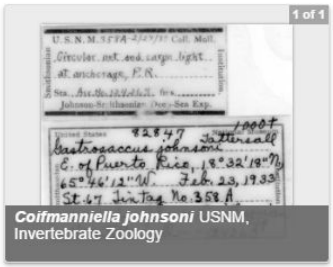
Pecten mayaguezensis Dall & Simpson — *Pectiniidae*

Puerto Rico, Mayaguez Harbor
Lat: 18°25' 30" **Lon:** -67°9' 11"
USNM, Invertebrate Zoology, 160062, United States Fish Commission

Animalia, Cnidaria, Anthozoa, Scleractinia

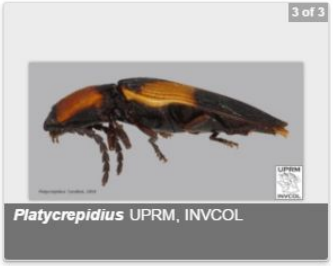
List | Labels | Media | Recordsets

Anolis cristatellus wileyae MCZ, Herp



Coifmanniella johnsoni USNM, Invertebrate Zoology

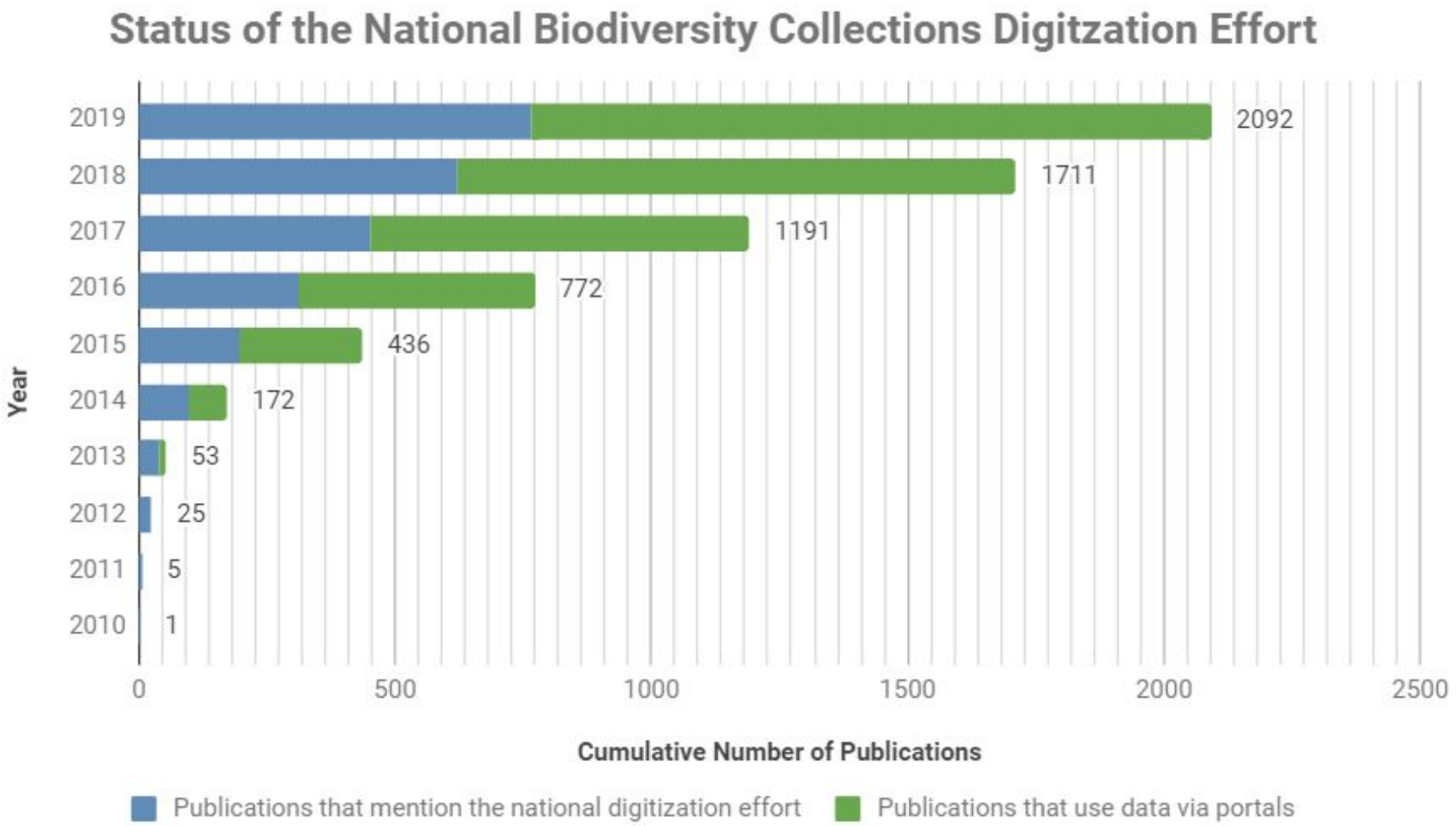
Adiantum obliquum US, Botany



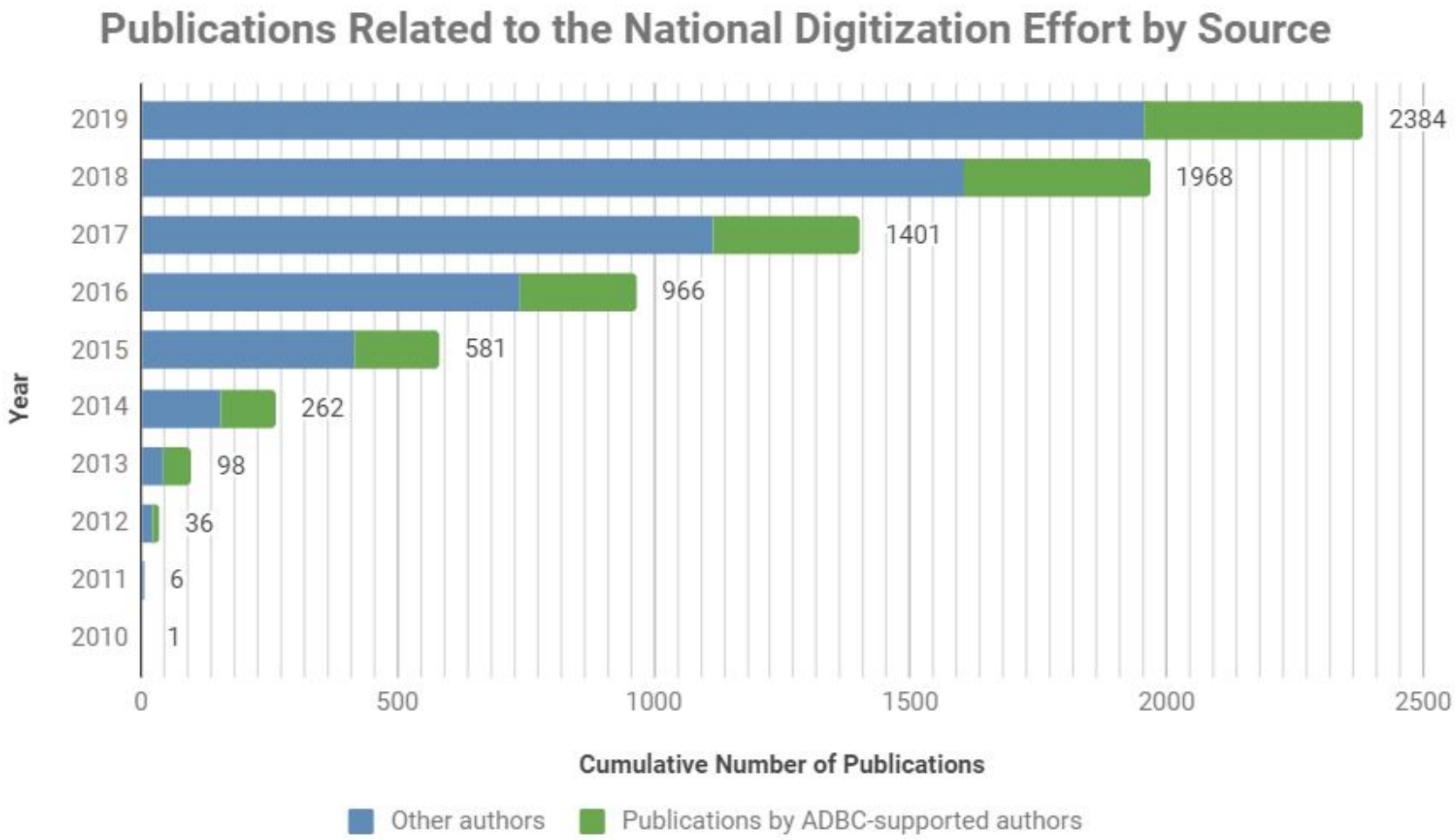
Platycrepidius UPRM, INVCOL

Coereba flaveola TTRS, Ornithology

Publications Citing Portal Data Use



Publications by ADBC Authors



Collections Data in Action: Beyond acronyms

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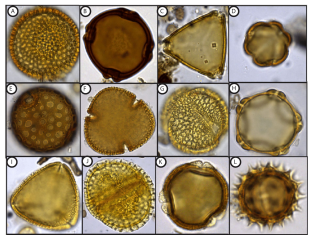
ekrimmel@fsu.edu

A2iA
ABBYY
Adobe Acrobat
Amazon
ACIS
ALA
AmphibiaWeb
APC
API
APNI
ArcGIS
ARK
AudioNet
AudubonCore
Axiell
bccvl
BCoN
BoL
BerkeleyMapper
BHL
BHL - China
BHL - Europe
Bio2RDF
BioCASe
biocode
BioGeoMancer
BioGUID
BioNames
BioOffice
BioSharing
BIOTA
BioVeL
BiSciCol
BISON
BITC
BOLDSystems
BONAP
BSA
BugGuide
CABIN
CF21
COOL
CETAF
CNABH
Collections Education
CollectionsWeb
ColorPicker
CONABIO
COS
CIPA
CRIA
CrossRef
CSIRO
DAMS
DataCarpentry
DataCite
DataONE
DataTurbine
DBTNT
DiGIR
Digital Florida
Digitarium
DINA
Discover Life
DIVA-GIS
djatoka
DOI
DroidDB
Drupal
Dryad
DSLR
DwC
DwC Terms
EarthCube
eBiodiversity
eBird
EcoInforma
ECOS
Effechecka
EMu
KE EMu
EnviroAtlas
EOL
Hadoop
Exploring Genomics
Data
Fauna Europaea
FIC
FishBase
FishNet2
FLOW
FOSSIL
From the Page
Fuzzy Gazetteer
GBIF
GCI
Grey Card Index
GeoCAT
GenBank
geneious
Gene Ontology
Geopaparazzi
Geotag Photos Pro
Thesaurus of
Geographic Names
GitHub
GIMP
GLANSIS
GloBI
GLOBIS
GNIS
GEOLocate
Georeferencing
Georeferencing
Calculator
GEOS
Geotools
GLI
GigaPan
CaptureStudio
Global Plants
GLoBIS
GLOBIS-B
GNA
Google Analytics
Google Earth
Google Maps
herbaria@home
HERBIS
Hymenoptera Online
ICBN
ICR
ICZN
IdentificationKey web
service
iDigBio
IDQ
ISBER
IGSN
IH
IK
ILDIS
iNaturalist
INBio
Index Fungorum
InverteBase
InvertNet
iPlant
IPNI
IPT
IPT 2
IrfanView
iSamples
ITIS
IUCN
Red List
IWGSC
JAI
Jetstream
JPEG 2000
JSON
JSTOR
JSTOR Plant Science
JTS
KML
Kurator
LBCC
LepNet
LibXML
Libraries of Life
LifeDesks
Magnolia grandiFLORA
MaM
MaNIS
MANTIS
MapWindow GIS
MapReduce
MapsData
MBB
Mendeley
MIBBI
MiCC
MOBOT
ModestR
MOL
Morphbank
Morphobank
MorphoSource
Morphster
MHC
mx
MySQL
NameBank
ClassificationBank
National Biodiversity
Data Center
NatureServe
NCSA
NEOMAP
NEON
NeotomaDB
NESCent
NEVP
NIBA
NIMBUS
NLP
Notes from Nature
NSCA
NSF
NSII
OBIS
OBO Foundry
OCR
OCRopus
ODBC
OA
Open Annotation
Open Atrium
Atrium
openModeller
ORCID
ORNIS
OWL
PaleoCore
PaleoDb
PaleoNICHES
PaleoPortal
PEN
Pensoft
PeriodO
PhenoBlast
Phenoscape
Photoshop
Photosimile
Phylocode
Phylojive
Phylolink
Picturae
Planting Science
PLANTS Database
Plazi
PlutoF
PNW Herbaria
PostGIS
PostgreSQL
prefixcommons
pro-iBiosphere
PROJ.4
Psyl'list
Python
QGIS
R
Raintree
RDA
RDF
Recorder 6
Re:discovery
Redmine
ReFindit
REST
ridigbio
RMCA
ROpenSci
RStudio
speciesLink
Tesseract
The Field Book Project
TNRS
TOLKIN
TORCH
tranScriptorium
Transkribus
TreeBASE
Trifacta
TROPICOS
TRY
TTD
Tri-Trophic TCN
TurboScan
uBio
UFBI
UNITE
Universal Chalcidoidea
Database
USVH
VACS
VASCAN
Vernon Systems
VertNet
ViBRANT
VIVO
VMWare
WCSP
Windows Azure

Got More? http://bit.ly/adbcterms



Digitization

Collection Management Software

- Arctos
- Symbiota
- Specify
- Axiell EMu
- CollectionSpace

Community Building

- SPNHC
- GRBio to GBIF
- Darwin Core Hour
- Small Collections Network
- Entomological Collections Network
- Working Groups:
  - DROID, GWG, SWG, PaleoDigi, EODI, …

Data Mobilization

- Biodiversity Information Standards
- DwC - Darwin Core
- GBIF INTEGRATED PUBLISHING TOOLKIT (IPT)
- IPT - Integrated Publishing Toolkit
- OpenRefine
- GEOLocate
- DAMS – Digital Asset Management
- ABBYY, Tesseract
- *Global unique identifiers*
  - GUID, UUID, ARK, IGSN

an alliance for biodiversity knowledge

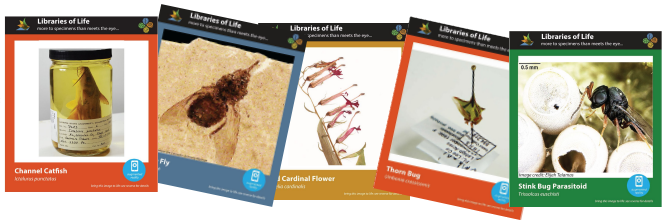
Data Aggregation

Facilitating Research Access and Use

- EOL - Encyclopedia of Life
- BHL – Biodiversity Heritage Library
- NEON – National Ecological Observatory Network
- CYVERSE - facilitating scientific research in the cloud

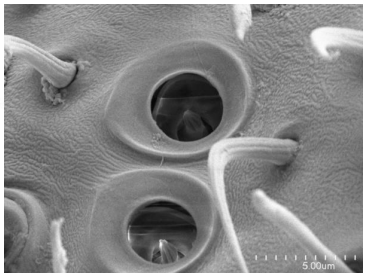
Aggregating Specimen Data

- GBIF – Global Biodiversity Information Facility
- ALA, DigiVol – Atlas of Living Australia
- iDigBio
- DiSSCo - Distributed System of Scientific Collections
- BISON – Biodiversity Serving our Nation
  - United States GBIF Node
- Canadensys
- CONABIO (Mexico)
- CRIA (Brazil) and SpeciesLink
- USVH – United States Virtual Herbarium
- SiBBr – Brazilian Biodiversity Information System
- VertNet



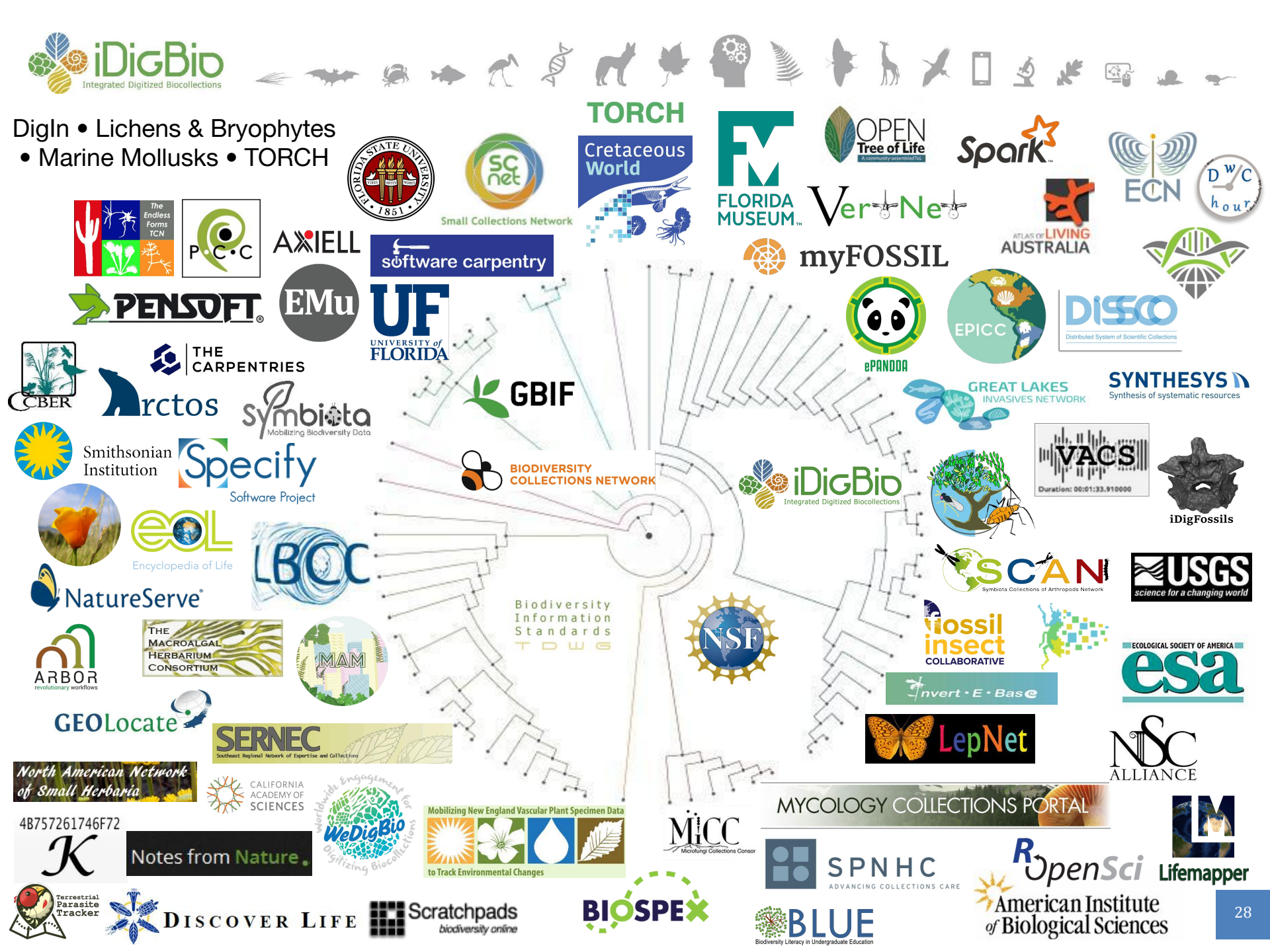
Education, Outreach, Inreach

- AIM-UP!
  - Advancing Integration of Museums into Undergraduate Programs; using collections data in undergraduate education
- BLUE
  - Biodiversity Literacy in Undergraduate Education
- Notes from Nature
  - Crowdsourcing collections transcription, creating communities
- iNaturalist
  - observation app, connecting scientists and the general public
- ePandda
  - Enhancing Paleontological and Neontological Data Discovery API, connecting scientific literature with specimens
- The Carpentries - Data Carpentry & Software Carpentry, Reproducible Science Curriculum,…
  - **Biodiversity informatics skills** for those in the biodiversity community. Focus on tidy data, fit for reproducible research.
- QUBES
  - Quantitative Undergraduate Biology Education & Synthesis. QUBESHub (website) hosts OERs (Open Educational Resources) from our community.



Publishing

- Pensoft
  - ARPHA Writing Tool (AWT), BISS
- DataCite, DOI (Digital Object Identifier)
  - Find, share and reuse, cite data, connect and get credit
- Mendeley
  - Free reference manager; organize papers, read & annotate your PDFs
- ORCiD
  - Open Researcher and Contributor ID
- DataONE
  - Data Observation Network for Earth (DataONE) – data repository and data management best practices
- Data Dryad
  - Curated resource making the data underlying scientific publications discoverable, freely reusable, and citable general-purpose home for a wide diversity of data types
- Figshare
  - online repository where researchers can preserve and share their research outputs, including figures, datasets, images, and videos. #openData


iDigBio
Integrated Digitized Biocollections
DigIn • Lichens & Bryophytes
• Marine Mollusks • TORCH
TORCH
Cretaceous World
Small Collections Network
FLORIDA MUSEUM
OPEN Tree of Life
Spark
ECN
DWC hour
VerNet
ATLAS OF LIVING AUSTRALIA
myFOSSIL
The Endless Forms TCN
P·C·C
AXIELL
software carpentry
PENSOFT
EMu
UF UNIVERSITY of FLORIDA
ePANDDA
EPICC
DISSCO
Distributed System of Scientific Collections
CBER
THE CARPENTRIES
Arctos
Symbiota
Mobilizing Biodiversity Data
GBIF
GREAT LAKES INVASIVES NETWORK
SYNTHESYS
Synthesis of systematic resources
Smithsonian Institution
Specify
Software Project
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Duration: 00:01:33.910000
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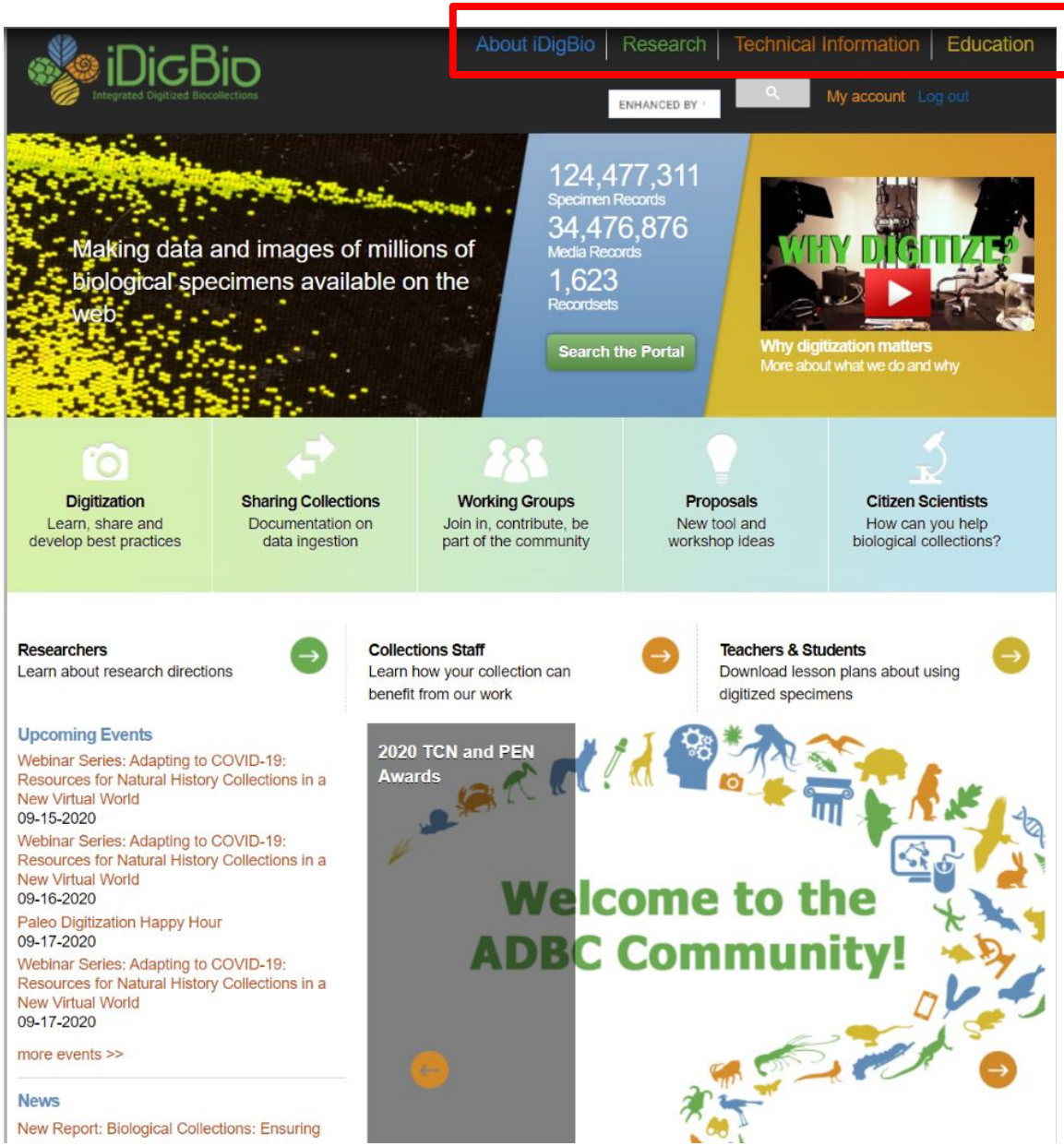
eol
Encyclopedia of Life
LBCC
NatureServe
SCAN
Symbiota Collections of Arthropods Network
USGS
science for a changing world
Biodiversity Information Standards
TDWG
NSF
fossil insect COLLABORATIVE
ARBOR
revolutionary workflows
THE MACROALGAL HERBARIUM CONSORTIUM
MAM
ECOLOGICAL SOCIETY OF AMERICA
esa
GEOLocate
invert·E·Base
LepNet
SERNEC
Southeast Regional Network of Expertise and Collections
NSC ALLIANCE
North American Network of Small Herbaria
CALIFORNIA ACADEMY OF SCIENCES
Worldwide Engagement for Digitizing Biocollections
WeDigBio
Mobilizing New England Vascular Plant Specimen Data to Track Environmental Changes
MYCOLOGY COLLECTIONS PORTAL
MiCC
Microfungi Collections Consor
4B757261746F72
K
Notes from Nature
SPNHC
ADVANCING COLLECTIONS CARE
ROpenSci
Lifemapper
Terrestrial Parasite Tracker
DISCOVER LIFE
Scratchpads
biodiversity online
BIOSPEX
BLUE
Biodiversity Literacy in Undergraduate Education
American Institute of Biological Sciences

iDigBio Resources

Jillian Goodwin
Conference Manager
jgoodwin@floridamuseum.ufl.edu

Molly Phillips
Education, Outreach, Diversity, & Inclusion Coordinator
mphillips@flmnh.ufl.edu

https://www.idigbio.org



https://www.idigbio.org/about-idigbio

General

- iDigBio and TCN info
- Code of Conduct
- Virtual meeting resources
- TCN Resources page
- Collaborators map
- ADBC proposal tips
- Staff Directory
- Calendar of upcoming events (workshops, webinars…)
- Diversity & Inclusion info
- News
- Event recaps
- Press releases
- Community announcements

https://www.idigbio.org/content/thematic-collections-networks

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Thematic Collections Networks

Tue, 2011-10-04 14:31 -- acisadmin

Each Thematic Collections Network (TCN) is a network of institutions with a strategy for digitizing information that addresses a particular research theme, such as impacts of climate change or biota of a region. Once digitized, data are easily accessed and available for other research and educational use. Other institutions and collections may join an existing TCN as a Partner to Existing Network (PEN). The following are the TCNs, and any associated PENs, currently funded by the Advancing Digitization of Biodiversity Collections (ADBC) program:

Award Year 2020

- (TCN) Building a global consortium of bryophytes and lichens: keystones of cryptobiotic communities
- (TCN) Mobilizing Millions of Marine Mollusks of the Eastern Seaboard (ESB)
- (TCN) Documenting Marine Biodiversity through Digitization of Invertebrate Collections (DigIn)

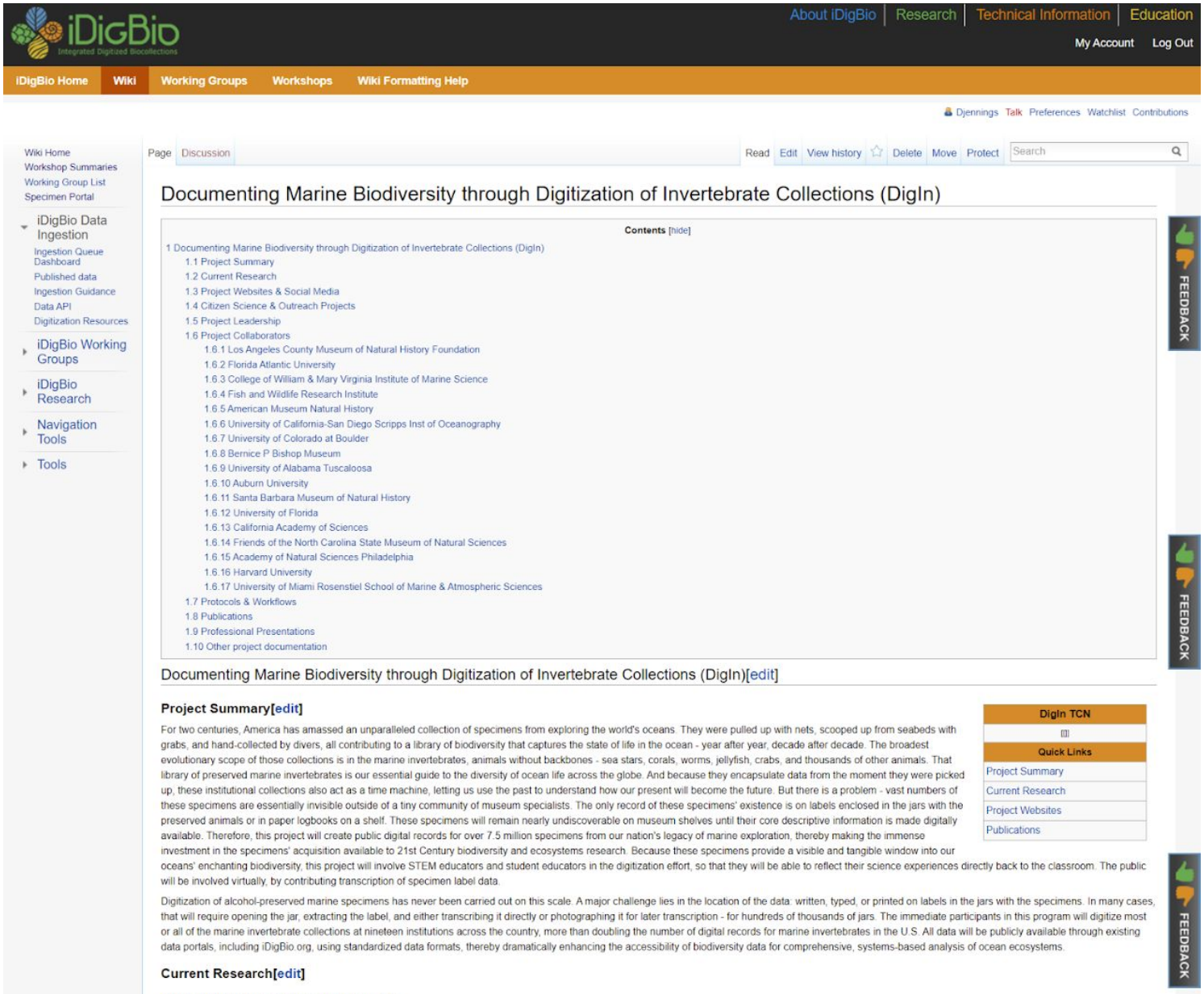
Award Year 2019

- (TCN) Digitizing collections to trace parasite-host associations and predict the spread of vector-borne disease (TPT)
    - (PEN) 2020 Addition of the Yale Peabody Museum to the Terrestrial Parasite Tracker (TPT) Network

Researchers
Browse our specimen portal

Collections Staff
Learn how your collection can benefit from our work

Teachers & Students
Learning resources & opportunities to engage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1.6.2 Florida Atlantic University
1.6.3 College of William & Mary Virginia Institute of Marine Science
1.6.4 Fish and Wildlife Research Institute
1.6.5 American Museum Natural History
1.6.6 University of California-San Diego Scripps Inst of Oceanography
1.6.7 University of Colorado at Boulder
1.6.8 Bernice P Bishop Museum
1.6.9 University of Alabama Tuscaloosa
1.6.10 Auburn University
1.6.11 Santa Barbara Museum of Natural History
1.6.12 University of Florida
1.6.13 California Academy of Sciences
1.6.14 Friends of the North Carolina State Museum of Natural Sciences
1.6.15 Academy of Natural Sciences Philadelphia
1.6.16 Harvard University
1.6.17 University of Miami Rosenstiel School of Marine & Atmospheric Sciences
1.7 Protocols & Workflows
1.8 Publications
1.9 Professional Presentations
1.10 Other project documentation
Documenting Marine Biodiversity through Digitization of Invertebrate Collections (DigIn)[edit]
Project Summary[edit]
DigIn TCN
Quick Links
Project Summary
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Publications
For two centuries, America has amassed an unparalleled collection of specimens from exploring the world's oceans. They were pulled up with nets, scooped up from seabeds with grabs, and hand-collected by divers, all contributing to a library of biodiversity that captures the state of life in the ocean - year after year, decade after decade. The broadest evolutionary scope of those collections is in the marine invertebrates, animals without backbones - sea stars, corals, worms, jellyfish, crabs, and thousands of other animals. That library of preserved marine invertebrates is our essential guide to the diversity of ocean life across the globe. And because they encapsulate data from the moment they were picked up, these institutional collections also act as a time machine, letting us use the past to understand how our present will become the future. But there is a problem - vast numbers of these specimens are essentially invisible outside of a tiny community of museum specialists. The only record of these specimens' existence is on labels enclosed in the jars with the preserved animals or in paper logbooks on a shelf. These specimens will remain nearly undiscoverable on museum shelves until their core descriptive information is made digitally available. Therefore, this project will create public digital records for over 7.5 million specimens from our nation's legacy of marine exploration, thereby making the immense investment in the specimens' acquisition available to 21st Century biodiversity and ecosystems research. Because these specimens provide a visible and tangible window into our oceans' enchanting biodiversity, this project will involve STEM educators and student educators in the digitization effort, so that they will be able to reflect their science experiences directly back to the classroom. The public will be involved virtually, by contributing transcription of specimen label data.
Digitization of alcohol-preserved marine specimens has never been carried out on this scale. A major challenge lies in the location of the data: written, typed, or printed on labels in the jars with the specimens. In many cases, that will require opening the jar, extracting the label, and either transcribing it directly or photographing it for later transcription - for hundreds of thousands of jars. The immediate participants in this program will digitize most or all of the marine invertebrate collections at nineteen institutions across the country, more than doubling the number of digital records for marine invertebrates in the U.S. All data will be publicly available through existing data portals, including iDigBio.org, using standardized data formats, thereby dramatically enhancing the accessibility of biodiversity data for comprehensive, systems-based analysis of ocean ecosystems.
Current Research[edit]
FEEDBACK
FEEDBACK
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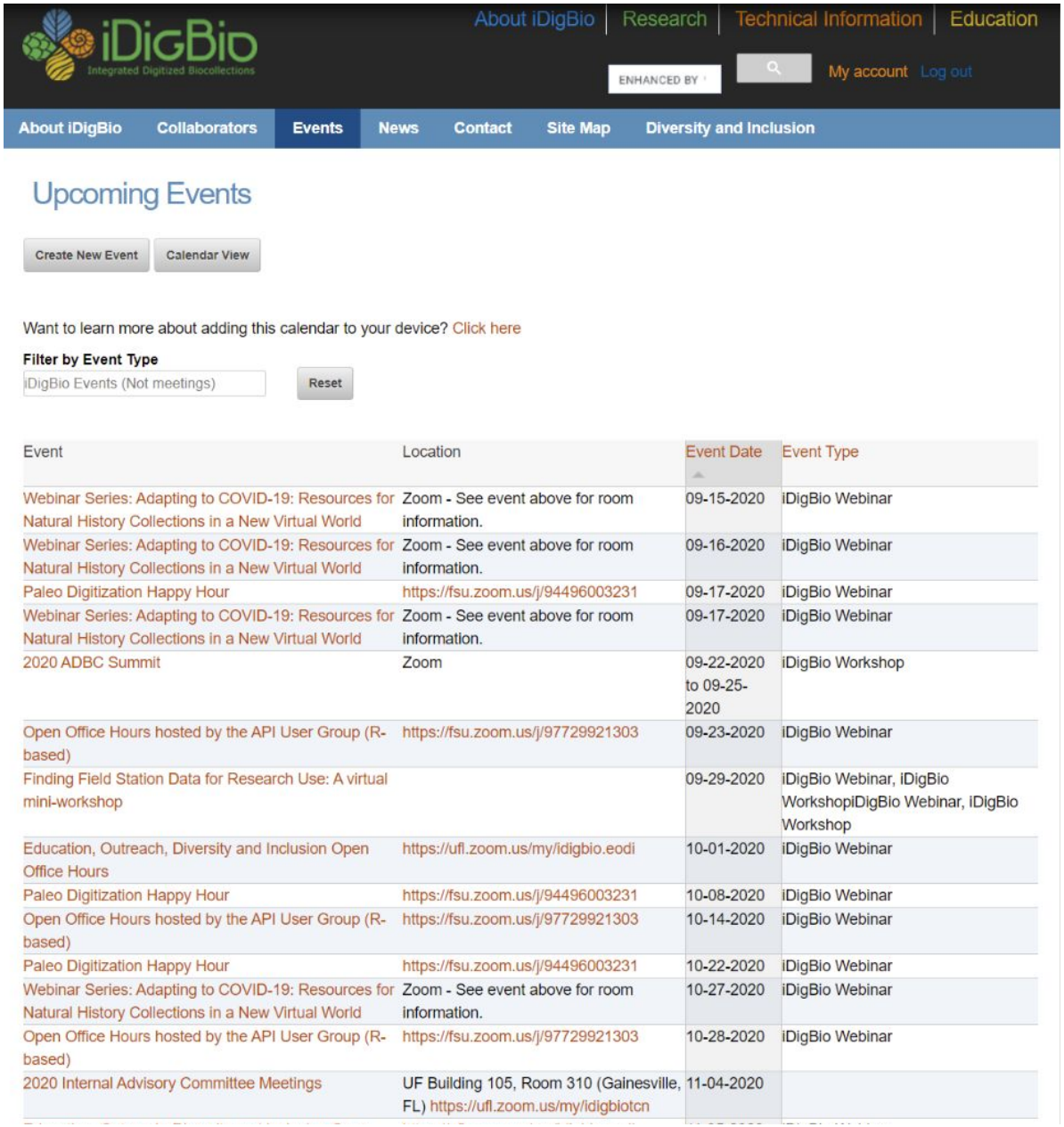
https://www.idigbio.org/outreach-events-sidebar



Event	Location	Event Date	Event Type
Webinar Series: Adapting to COVID-19: Resources for Natural History Collections in a New Virtual World	Zoom - See event above for room information.	09-15-2020	iDigBio Webinar
Webinar Series: Adapting to COVID-19: Resources for Natural History Collections in a New Virtual World	Zoom - See event above for room information.	09-16-2020	iDigBio Webinar
Paleo Digitization Happy Hour	https://fsu.zoom.us/j/94496003231	09-17-2020	iDigBio Webinar
Webinar Series: Adapting to COVID-19: Resources for Natural History Collections in a New Virtual World	Zoom - See event above for room information.	09-17-2020	iDigBio Webinar
2020 ADBC Summit	Zoom	09-22-2020 to 09-25-2020	iDigBio Workshop
Open Office Hours hosted by the API User Group (R-based)	https://fsu.zoom.us/j/97729921303	09-23-2020	iDigBio Webinar
Finding Field Station Data for Research Use: A virtual mini-workshop		09-29-2020	iDigBio Webinar, iDigBio WorkshopiDigBio Webinar, iDigBio Workshop
Education, Outreach, Diversity and Inclusion Open Office Hours	https://ufl.zoom.us/my/idigbio.eodi	10-01-2020	iDigBio Webinar
Paleo Digitization Happy Hour	https://fsu.zoom.us/j/94496003231	10-08-2020	iDigBio Webinar
Open Office Hours hosted by the API User Group (R-based)	https://fsu.zoom.us/j/97729921303	10-14-2020	iDigBio Webinar
Paleo Digitization Happy Hour	https://fsu.zoom.us/j/94496003231	10-22-2020	iDigBio Webinar
Webinar Series: Adapting to COVID-19: Resources for Natural History Collections in a New Virtual World	Zoom - See event above for room information.	10-27-2020	iDigBio Webinar
Open Office Hours hosted by the API User Group (R-based)	https://fsu.zoom.us/j/97729921303	10-28-2020	iDigBio Webinar
2020 Internal Advisory Committee Meetings	UF Building 105, Room 310 (Gainesville, FL) https://ufl.zoom.us/my/idigbiotcn	11-04-2020	

https://www.idigbio.org/content/webinar-series-adapting-covid-resources-natural-history-collections-new-virtual-world

Webinar Series: Adapting to COVID-19: Resources for Natural History Collections in a New Virtual World

July 28: Planning for Virtual Events: Lessons learned from Digital Data & SPNHC Conference Planners

August 25: Executing Virtual Events: Lessons learned from Digital Data & SPNHC Conference Planners

September 15-17: Taking the Pulse of Natural History Collections During COVID-19 Series: Where are we now?

October 27: Virtual Project Management, Tips and Tools
Speakers: Diego Barroso; Project Manager TORCH TCN, BRIT, Jen Zaspel; Terrestrial Parasite Tracker Lead PI & David Jennings, Project Manager, iDigBio

November 18: Engaging Public Participation in Collections Digitization
Speakers: Austin Mast; iDigBio, Florida State University & Katie Pearson, Project Manager California Phenology TCN

https://www.idigbio.org/content/broadening-participation-biology

Broadening Representation in Biology

Tue, 2018-02-20 10:14 -- maphillips

Just like in all other STEM disciplines, the biodiversity sciences has a human diversity, inclusion, equity, and access problem. iDigBio feels strongly that diversity is a strength and that we all have work to do to make the biodiversity community a welcoming, inclusive, and safe environment for all. iDigBio is committed to doing our part to directly support marganilized people in biology, specifically BLAANA (Black/African-American, Latinx, Asian, Arab, and Native American) as well as other under-represented people in STEM while also working with our community to create change. We are working to do so through multiple initiatives:

iDigTRIO Biological Sciences Career Conference and Fair

iDigBio and the Office of Academic Support (OAS) and Student Support Services (SSS)/TRIO Program at University of Florida (UF) have co-organized a free Biology Career Conference and Fair since 2019. The goal of this event is to give students the chance to

https://www.idigbio.org/content/idigbio-code-conduct

iDigBio Code of Conduct

Tue, 2019-09-17 11:33 -- javarkas

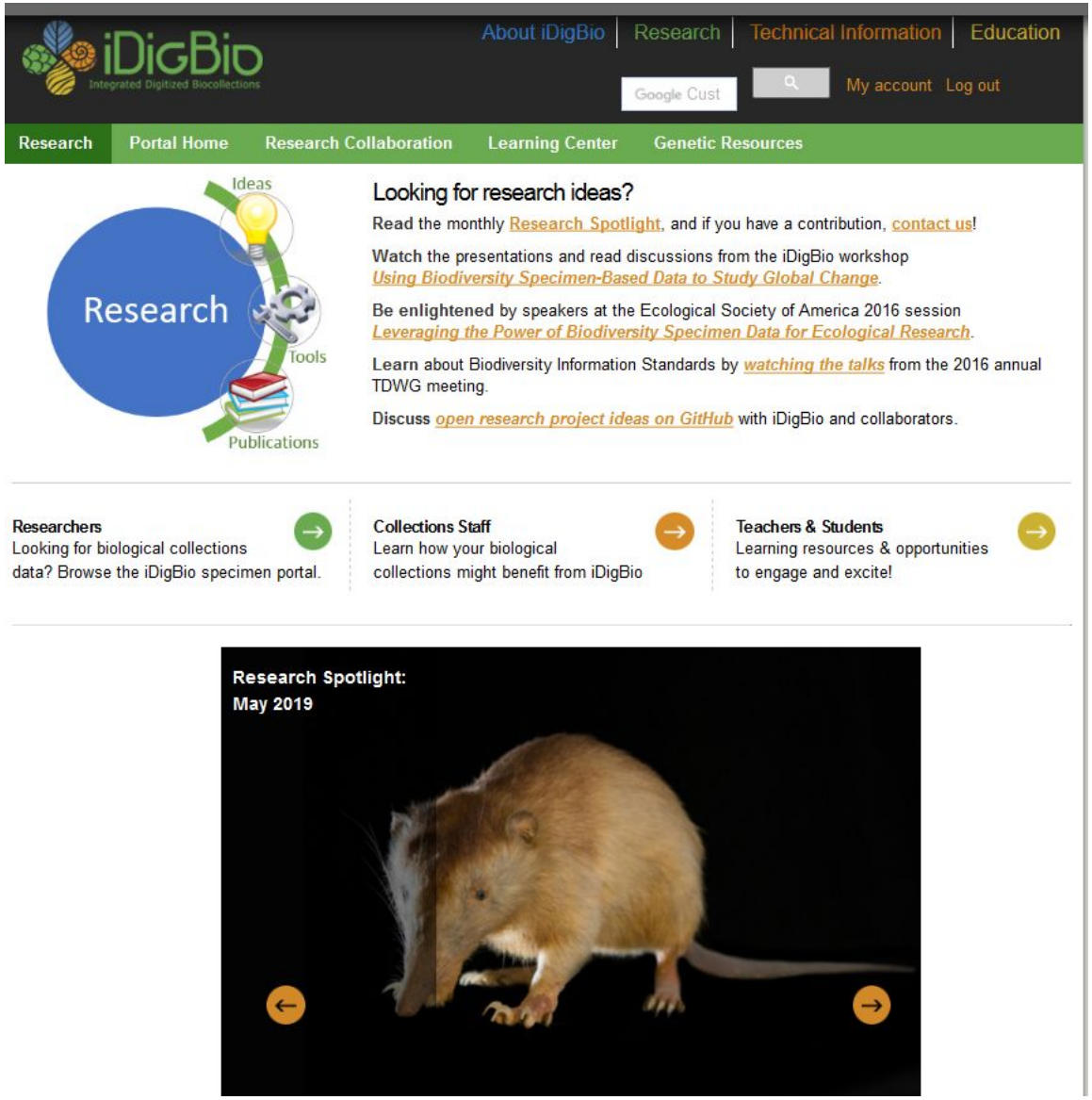
This Code of Conduct is a living document. We value your insights, feedback and comments. Please send comments and suggested edits to Molly Phillips mphillips@flmnh.ufl.edu

iDigBio has been providing professional development, resources, and community for biodiversity digitization since 2011. Each year, iDigBio hosts the ADBC Summit and organizes dozens of in-person and virtual events. The iDigBio website hosts a variety of community and internally generated content such as workflows, reports, and blog posts. iDigBio also facilitates several active email listservs and social media accounts.

iDigBio values the diversity of views, expertise, opinions, backgrounds, and experiences reflected among our ADBC partners and the broader biodiversity sciences community and is committed to providing a safe, productive, and welcoming environment for all participants of iDigBio-facilitated meetings, events, and virtual spaces. iDigBio-facilitated meetings and events can serve as an effective forum to consider and debate science-relevant viewpoints in an orderly, respectful, and fair manner. This Code of Conduct is important for promoting

Researchers
Browse our specimen portal
Collections Staff
Learn how your collection can benefit from our work
Teachers & Students
Learning resources & opportunities to engage

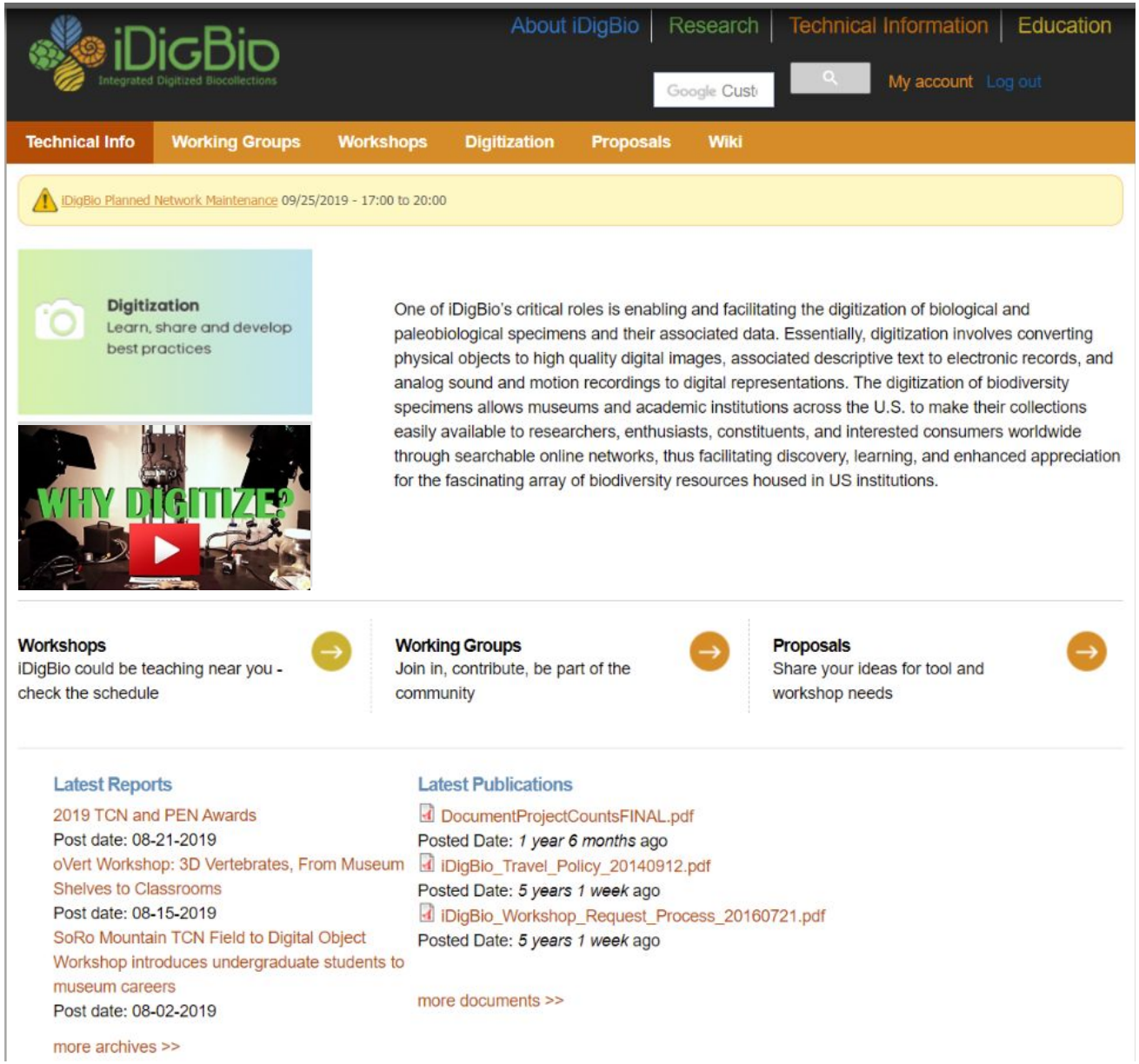
https://www.idigbio.org/research



Research

- Monthly Research Spotlights
- List of genetic repositories
- Links to ADBC research
- Tutorials
- API information
- iDigBio R package
- Research tools
- Collaborators
- Links to GitHub

https://www.idigbio.org/technical-info



Technical Information

- Working group information
- Digitization workflows
- Equipment recommendations
- Workshop summaries
- Workshop and webinar recordings
- Data ingestion guidance

https://www.idigbio.org/wiki/index.php/Main_Page

iDigBio Integrated Digitized Biocollections

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Digitization Resources

This page provides resources and information for the series of digitization training workshops being conducted by iDigBio as well as a plethora of digitization information and resources. Included is a growing list of links to documents, websites, videos, presentations, and other important information related to biological collection digitization.

Contents [hide]

Digitizing the Past and Present for the Future

iDigBio Integrated Digitized Biocollections

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How to digitize? (Five clusters)	Workshops and Symposia
Digitization Videos	Biblio entries
Connect with iDigBio	
Specimen Portal	Upcoming Events
iDigBio on facebook	Follow iDigBio on twitter

iDigBio Introduction[edit]

"Introduction to iDigBio" 02:04

More than 1,600 natural history collections across the United States house over 1 billion biological specimens ranging from fungi to fish to fossils. This video describes the iDigBio project. It explains why digitized information and ready access to it are important, provides an overview of the digitization process and highlights some of the challenges faced when working with different types of natural history collections.

Recommendations for the Acquisition, Processing, and Archiving of Digital Media[edit]

iDigBio has created recommendations for capturing, processing, and storing digital media.

Recommendations for the Acquisition, Processing, and Archiving of Digital Media

Interest/Working Groups[edit]

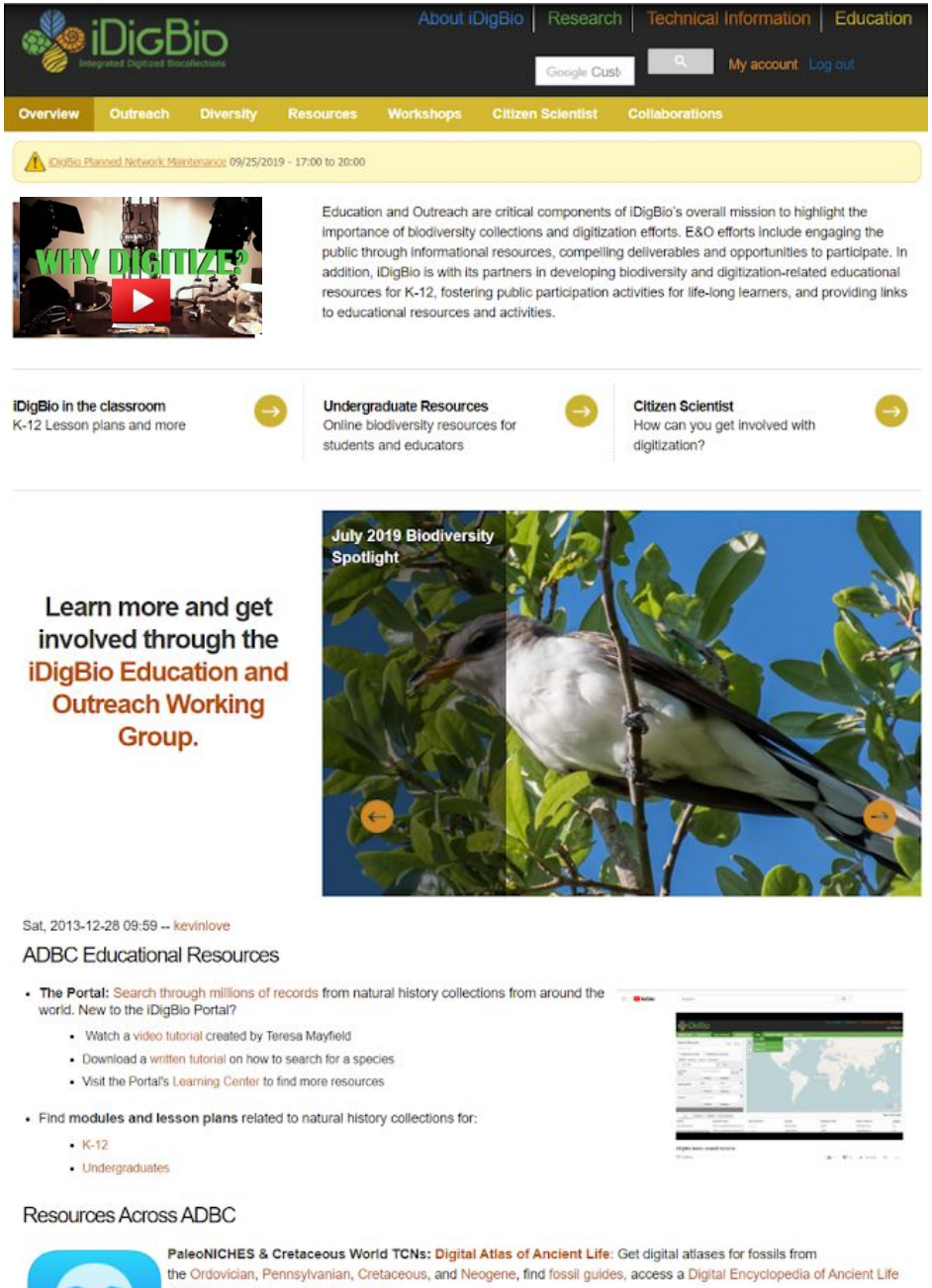
The following links take you to Interest/Working Groups focused on Digitization. For other working groups please use the following link iDigBio Working Groups

- International Whole-Drawer Digitization Interest Group
- NANSH Working Group (North American Network of Small Herbaria)
- Fluid-preserved Arthropod and Microscopic Slide Imaging Interest Group
- Paleontology Digitization Working Group
- Small Collections Network Working Group
- Vertebrate Digitization Intererst Group
- Field Station Interest Group

FEEDBACK

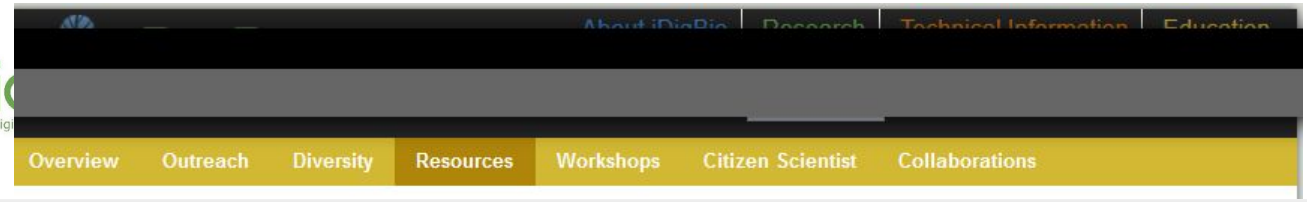
FEEDBACK

https://www.idigbio.org/education



Education

- Links to ADBC educational products
- Link to Collections Educational Materials Portal
- Diversity and Inclusion
- Monthly Biodiversity Spotlights
- Portal Curiosities
- Coding Corner
- K-12 lesson plans
- Undergraduate modules
- Information about Citizen Science
- Educational collaborators



t Structure Configuration Help Hello maphillips L

Find content

Wed, 2015-10-21 11:42 -- maphillips

Researchers
Browse our specimen portal

Collections Staff
Learn how your collection can benefit from our work

Teachers & Students
Learning resources & opportunities to engage

Collections-Based Online Resources for Undergraduate Students and Educators

Natural History Collections Portal

This portal is supported by QUBES and aggregates educational resources from BLUE, iDigBio, and others, and is owned by SPNHC. Want to publish a resource? Reach out to us here.

WeDigFLPlants	SC.912.CS-PC3.4 SC.912.N.1.4	citizen science, biodiversity, museum, herbarium, plants	Help behind-the-scenes at a museum as a citizen scientist

https://www.idigbio.org/education/citizen-scientist

Citizen Scientist

Researchers
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Collections Staff
Learn how your collection can benefit from our work

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Fri, 2013-12-27 14:11 -- kevinlove

Public engagement in scientific research (sometimes referred to as citizen science) is not new, but new web resources (e.g., from the Zooniverse, Cornell Lab of Ornithology, and USA National Phenology Network suites of projects) provide scientists with opportunities to engage the public in ways and at scales not previously possible. At the same time, the public is increasingly provided with opportunities to learn how to do science and, in some cases, co-design and implement the experiments with scientist partners (e.g., with functionality at CitSci.org). This is leading to a democratization of science, in which the public has a more direct role in doing research meaningful to them (e.g., determining floristic changes in a local natural area).

Many of the current ecological/environmental citizen science projects focus on generating present-day occurrence data on populations, species, and communities. Biodiversity research collections (biocollections) represent an opportunity to produce complementary historical baseline data on distributions using the roughly 1 billion specimens in U.S. institutions collected over the past 250 years. However, information about a majority of those specimens has yet to be digitized and made available to the world online. iDigBio is working to enable the creation of this digital historical baseline in many ways, including ways that engage the public in the digitization of specimens that are most relevant to the contributor's interests. Engaging the public in digitization intersects in powerful ways with iDigBio's Education and Outreach goals, as well its Digitization, Cyberinfrastructure, and Research goals.

This year, iDigBio is excited to partner with other projects to produce the inaugural Worldwide Engagement for Digitizing Biocollections (WeDigBio) Event—a potentially huge boost for engaging the public in digitization and increasing science literacy in this domain. The event's core leadership team includes researchers from Florida State University, Smithsonian Institution, University of Florida's Florida Museum of Natural History, Australian Museum, and the major online transcription platforms, including the U.S.-based Smithsonian Transcription Center, Zooniverse Notes from Nature, and Symbiota, the Australia-based DigiVol, the UK-based Herbaria@Home, and the France-based

https://www.idigbio.org/content/outreach

benefit from our work

Teachers & Students
Learning resources & opportunities to engage

Outreach Materials created through ADBC

Are you looking for outreach materials to help engage with people about biodiversity, digitization, or iDigBio?

Libraries of Life Collection Cards were created by the iDigBio Augmented Reality Public Education/Outreach Working Group. The fifteen cards each feature a different project funded by NSF's Advancing Digitization of Biodiversity Collections program, and each card launches a 3D model in the mobile device's viewer that brings specimens to life for the public. **The cards are available to download and print through the app**, and further resources are available at www.libraries-of-life.org, including educational materials.

The MicroFungi Portal also has an outreach page that has educational videos and articles about early mycologists.

Citizen/Community Science

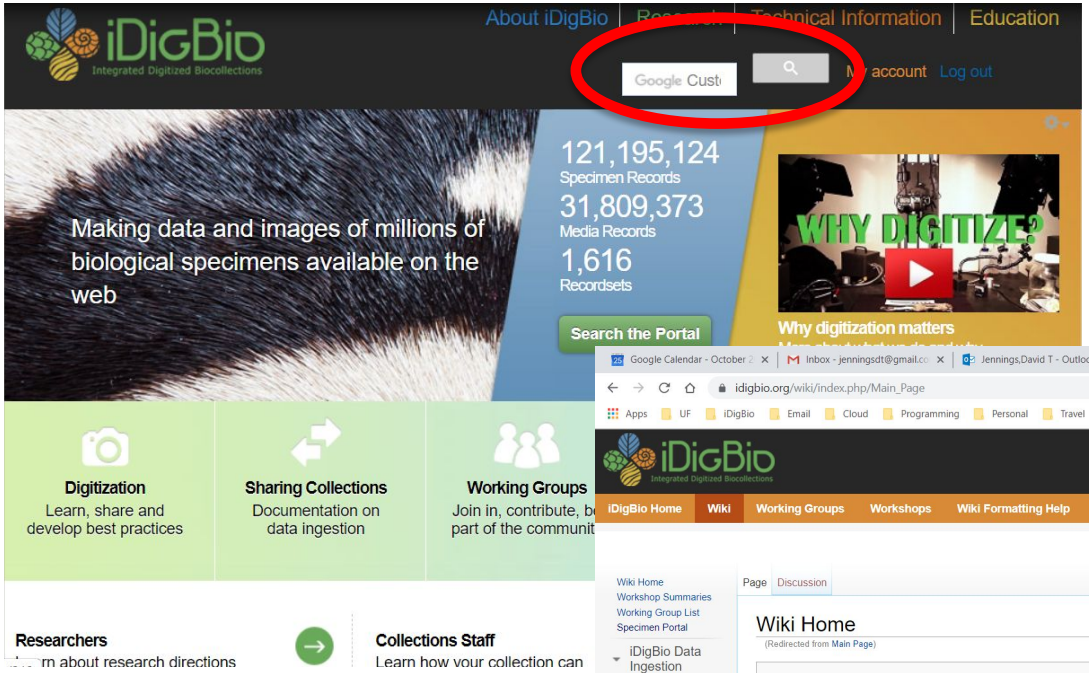
The SoRo TCN has created an iNaturalist project for citizen scientists to help document the biodiversity at the Rocky Mountain Biological Laboratory.

Notes from Nature Outreach Activity: Notes from Nature is an excellent outreach tool because people can directly participate in the digitization of museum collections. The website hosts multiple collections at all times and is fun and easy to use. iDigBio has created an activity intended for a tabling event --- for a general, or younger audience. We used this activity with Girl Scouts, but it could be easily adapted for other groups. Visit the K-12 page to find Notes from Nature activities meant for formal education.

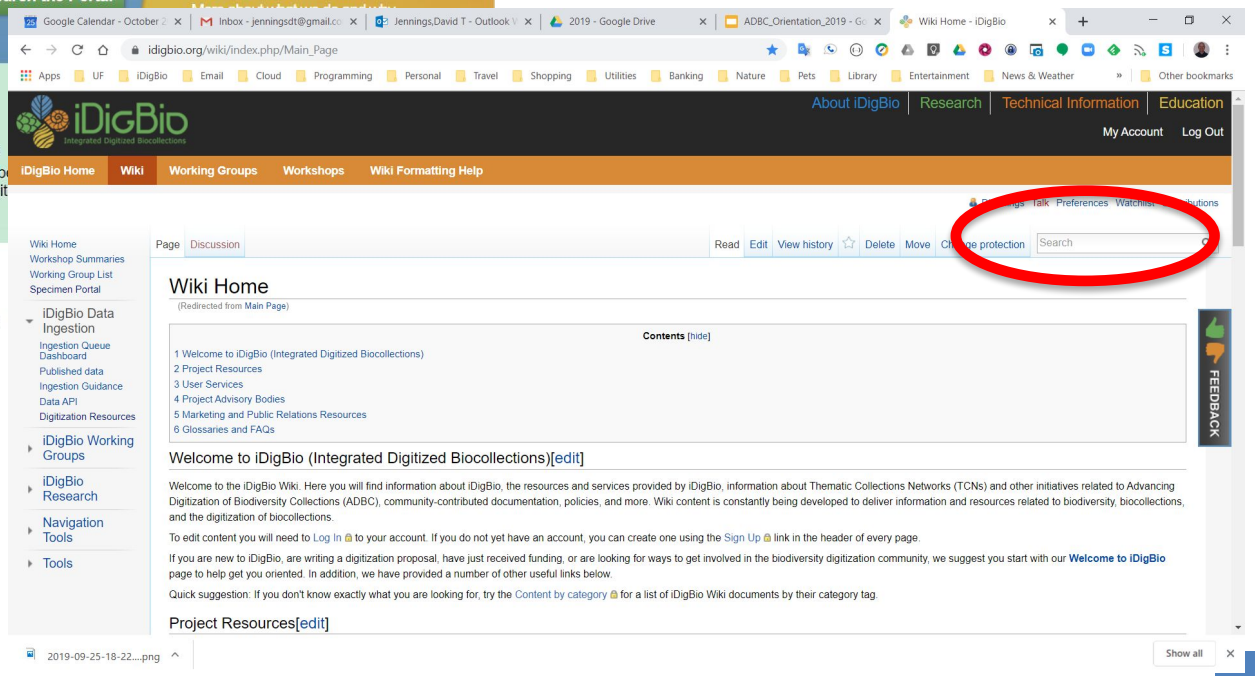
Outreach Videos

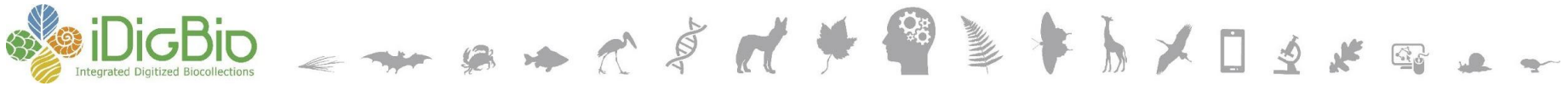
One of the members of the Mid-Atlantic Megalopolis TCN has created a 3-video series on the importance of digitization and collections.

I can't find X, or I want to know about Y



Use the search boxes!





workflows

About 2,110 results (0.27 seconds)

Webinar: Towards user-definable, semi-automated workflows for ...
https://www.idigbio.org/.../webinar-towards-user-definable-semi-automated- **workflows**-curating-biodiversity-data
In the FilteredPush project, we have developed automated **workflows** for quality control of biodiversity data, first as proof-of-concept desktop software in the ...

Digitization Workflows | iDigBio
https://www.idigbio.org/content/digitization-**workflows**
Jun 10, 2012 **...** Efficient and effective **workflows** are at the heart of successful biological and paleontological collections digitization. Much work has been done ...

Workflow Modules and Task Lists | iDigBio
https://www.idigbio.org/content/**workflow**-modules-and-task-lists
Aug 24, 2012 **...** One outgrowth of the DROID (Developing Robust Object-to-Image-to-Data) **workflow** workshop held in May 2012 was the establishment of a ...

Workflow | iDigBio
https://www.idigbio.org/tags/**workflow**
Mass Digitizing a Working Herbarium using a conveyor belt: **Workflows**, Strategies, ... Webinar: Towards user-definable, semi-automated **workflows** for curating ...

Workflows | iDigBio
https://www.idigbio.org/tags/**workflows**
This session at GSA 2016 will focus on paleontology/geo databases, data standards related to paleontology, and mobilization of research-quality paleontology ...

Developing Robust Object to Image to Data Workflows Workshop ...
https://www.idigbio.org/.../developing-robust-object-image-data-**workflows**- workshop
Developing Robust Object to Image to Data (DROID) **Workflows** Workshop. Building 105,

iDigBio Integrated Digitized Biocollections

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workflows Search

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Create the page "Workflows" on this wiki!

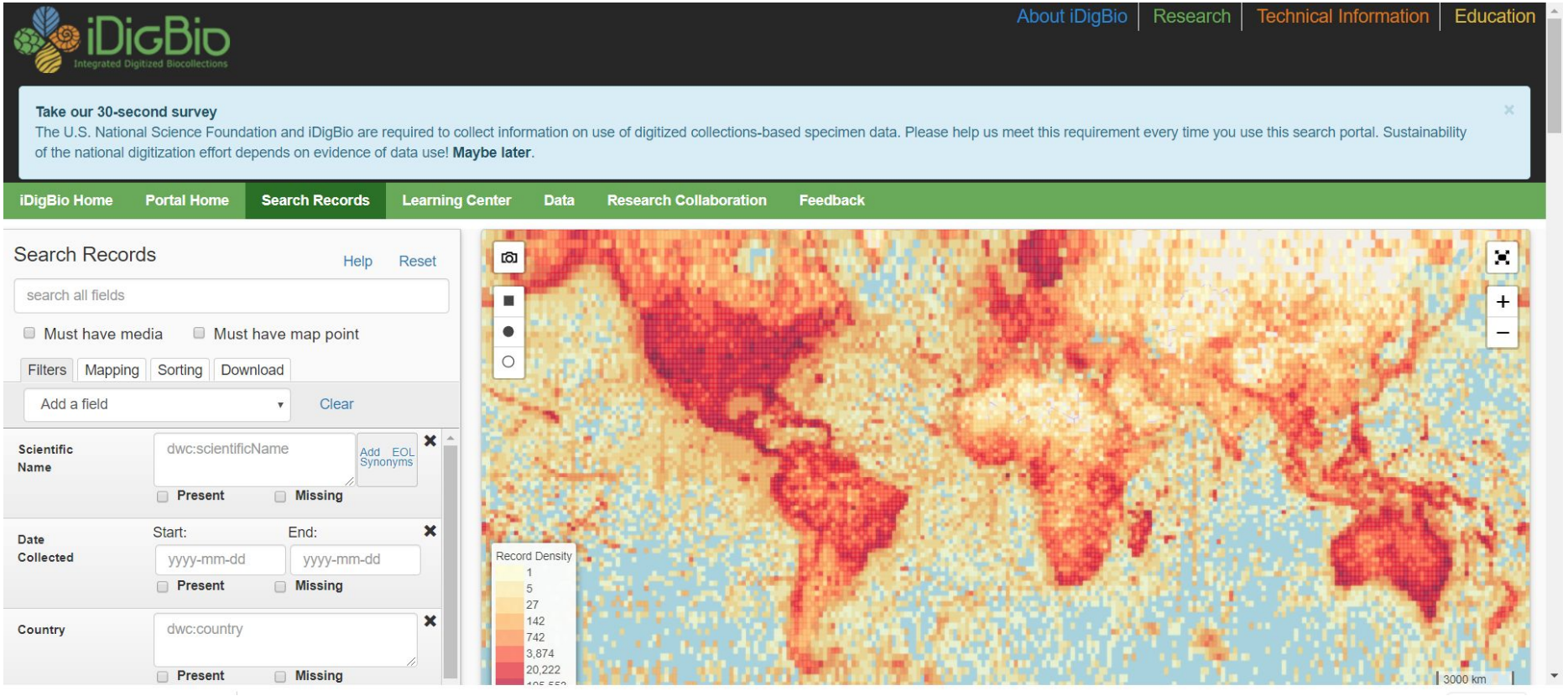
Page title matches

Collections Digitization Workflows
...ributions of existing **workflows** and protocols are encouraged, whether such **workflows** were developed by the contributor or discovered while searching the interne ...s://www.idigbio.org/content/digitization-**workflows** iDigBio's Collaborative **Workflows** Page] ==
3 KB (387 words) - 07:47, 7 May 2015

OCR / NLP Workflows
4 KB (581 words) - 10:15, 25 August 2014

Digitization Workflows and Protocols
...utions we visited. The following links provide information on Digitization **Workflows** and Protocols. * [http://tcn.amnh.org/documents **Workflows**, protocols, etc. from Tri-

Flexible search across all data, indexed fields, media, and geolocations



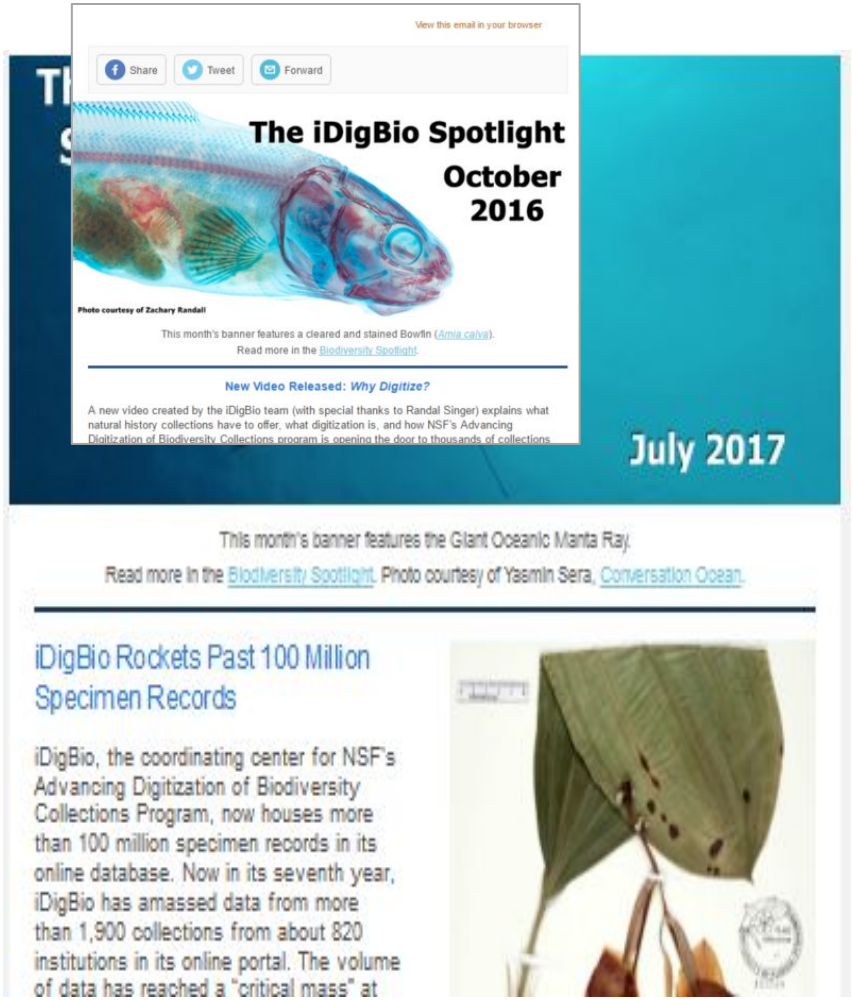
https://www.idigbio.org/portal

Get Involved!

Alnycea Blackwell “Allie”
Project Assistant
ablackwell@floridamuseum.ufl.edu

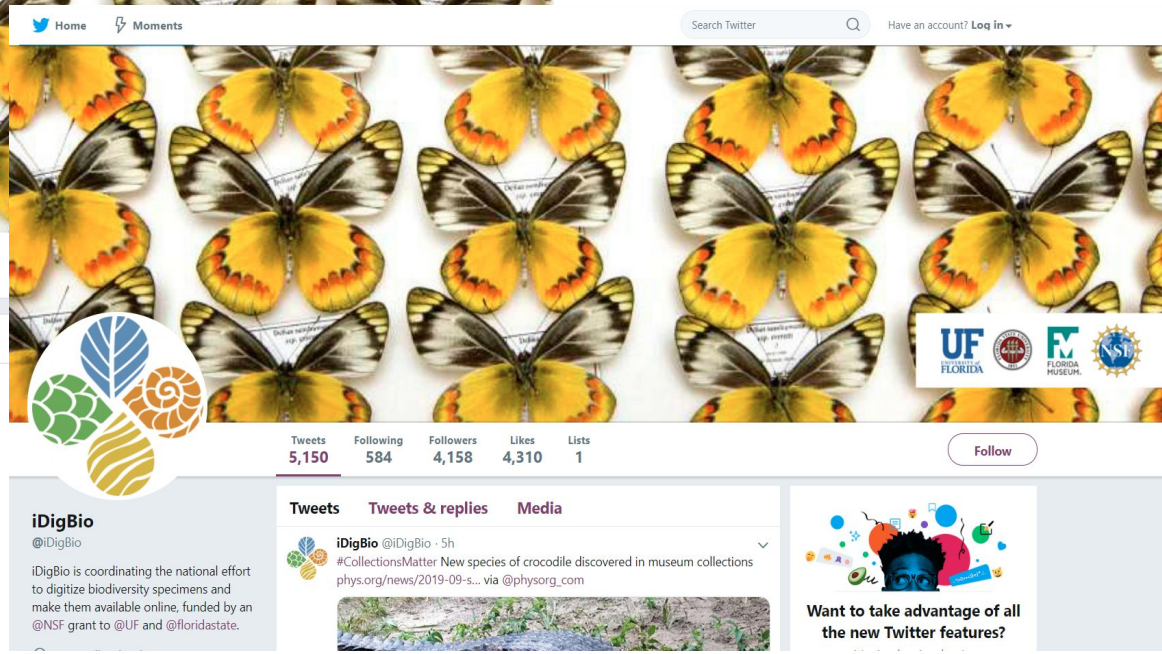
Step 1: Sign up for the iDigBio Newsletter

- TCN and digitization news
- Upcoming workshops and webinars
- Event recaps
- Articles featuring innovative collections-based research Biodiversity Spotlights



https://www.idigbio.org/newsletter-subscribe

Step 2: Social media



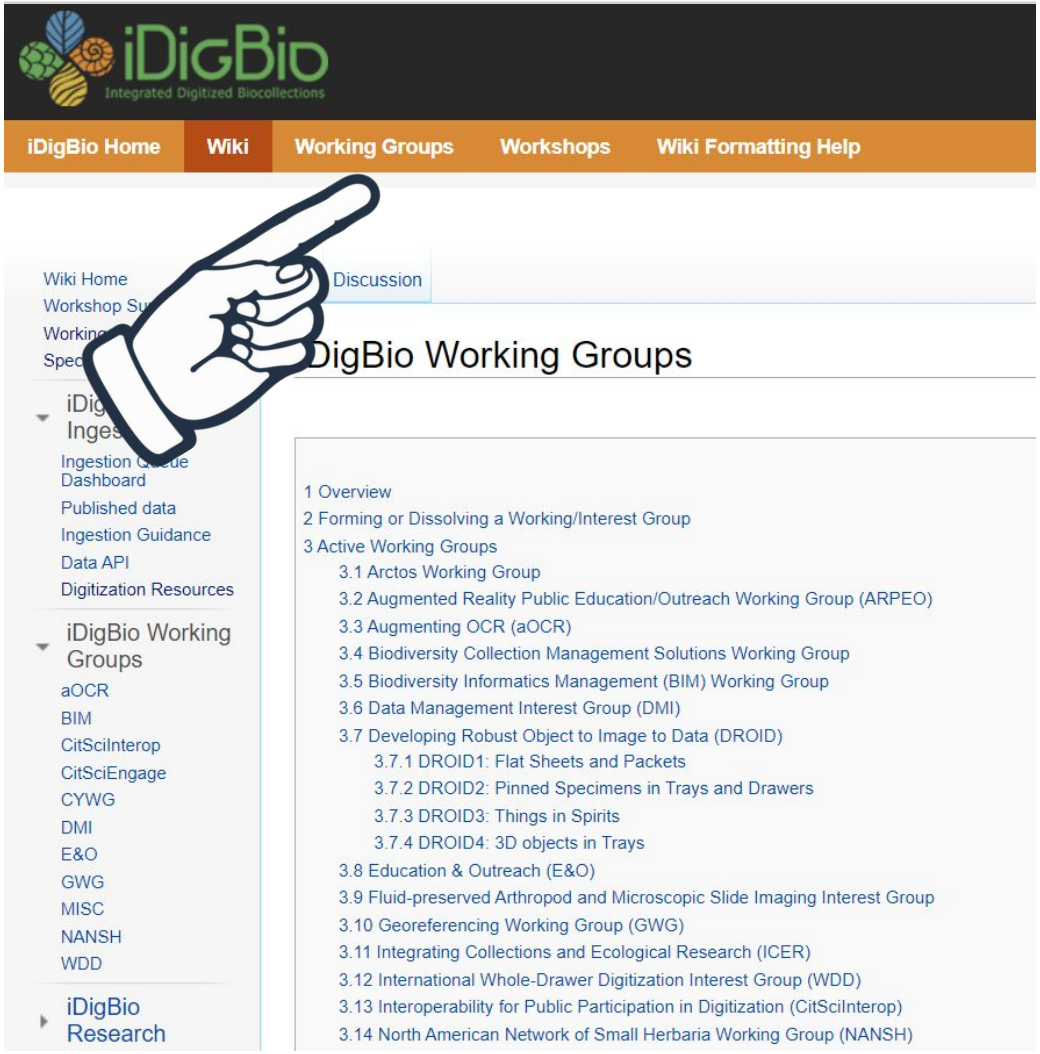
vimeo.com/idigbio

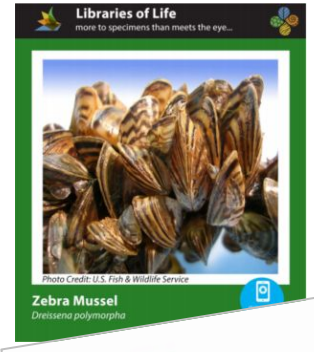
idigbio.org/rss-feed.xml

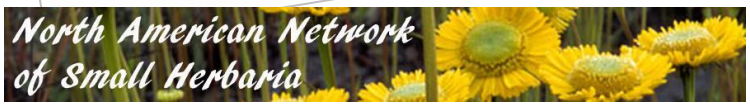
idigbio.org/events-calendar/export.ics

www.idigbio.org/wiki

Step 3: Get involved with a Community Working Group



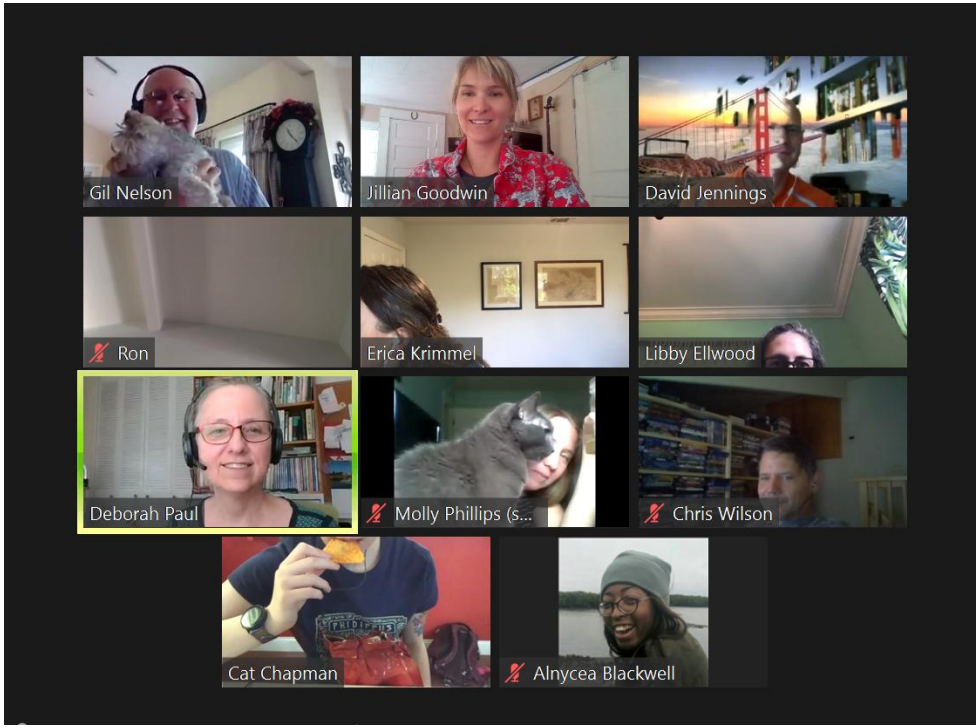




Documentation
API development
Workflows
Standards
Best practices
Hackathons
Workshops, Webinars

Step 4: Watch a webinar…or star in one!

https://www.idigbio.org/tags/webinar
https://www.idigbio.org/wiki/index.php/Web_Conferencing

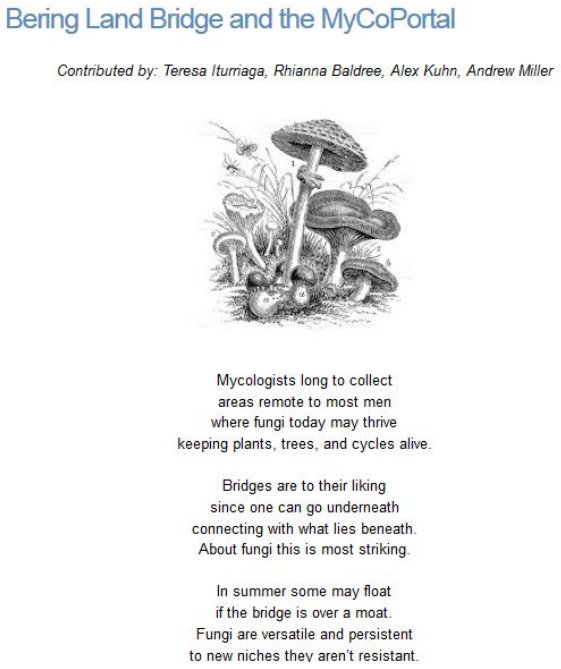


Workshops
Symposia
Webinars

preferably with a microphone!

Step 5: Contribute to the iDigBio website

- Submit an article for the **Research Spotlight**
- Write an article about **your project**
- Contribute your **workflows**
- **Update** your individual TCN wiki pages
- Write about your **iDigBio experience**
- Post an **event**
- Share education/outreach **resources**



Bering Land Bridge and the MyCoPortal

Contributed by: Teresa Iturriaga, Rhianna Baldree, Alex Kuhn, Andrew Miller

Mycologists long to collect
areas remote to most men
where fungi today may thrive
keeping plants, trees, and cycles alive.

Bridges are to their liking
since one can go underneath
connecting with what lies beneath.
About fungi this is most striking.

In summer some may float
if the bridge is over a moat.
Fungi are versatile and persistent
to new niches they aren't resistant.

https://qubeshub.org/community/groups/collections

Digital Atlas of Ancient Life | Exploring the Diversity and History ...

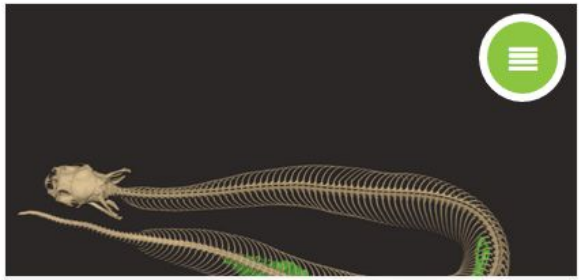
Jonathan Hendricks
Version: 1.0

Evolution, biology, idi... 113 35 0 0 0 06.2020

Origin and Diversity of Armor in Girdled Lizards

Jennifer Broo
Version: 1.0

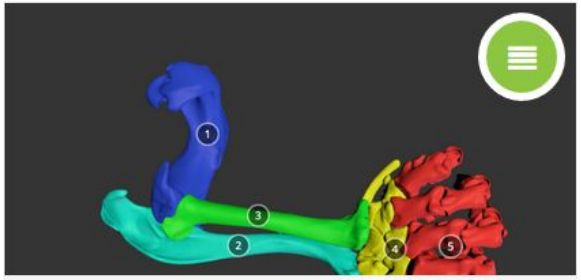
Evolution, phylogenet... 232 75 0 0 0 05.2020



That Vertebrate Ate What Exactly?

Jason Horner
Version: 1.0

Evolution, idigbio, AP ... 212 39 0 0 0 05.2020



Evidence of Evolution Homologous Structures

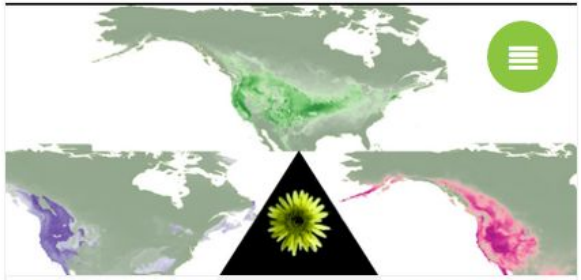
Bridget Armstrong
Version: 1.0

Evolution, idigbio, Zo... 110 47 0 0 0 05.2020

Diving into Deep Sea Data

Adania Flemming, Randy Singer, Molly Phillips
Version: 1.0

Querying databases, ... 214 69 0 0 0 04.2020



Using Digitized Collections-Based Data in Research: A Hands-On Cras...

Blaine Marchant
Version: 1.0

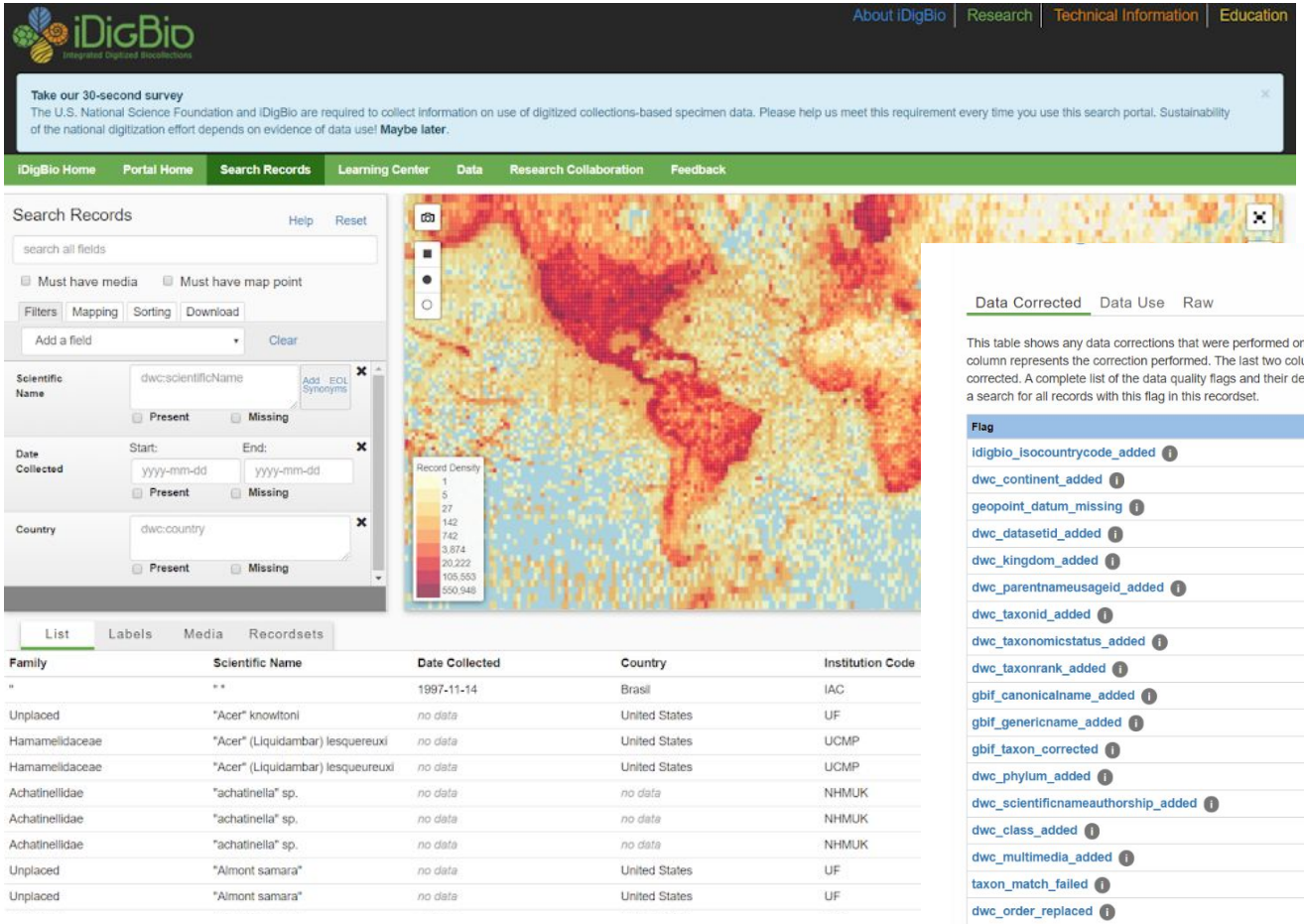
ecology lab, biodivers... 468 38 0 0 0 04.2020

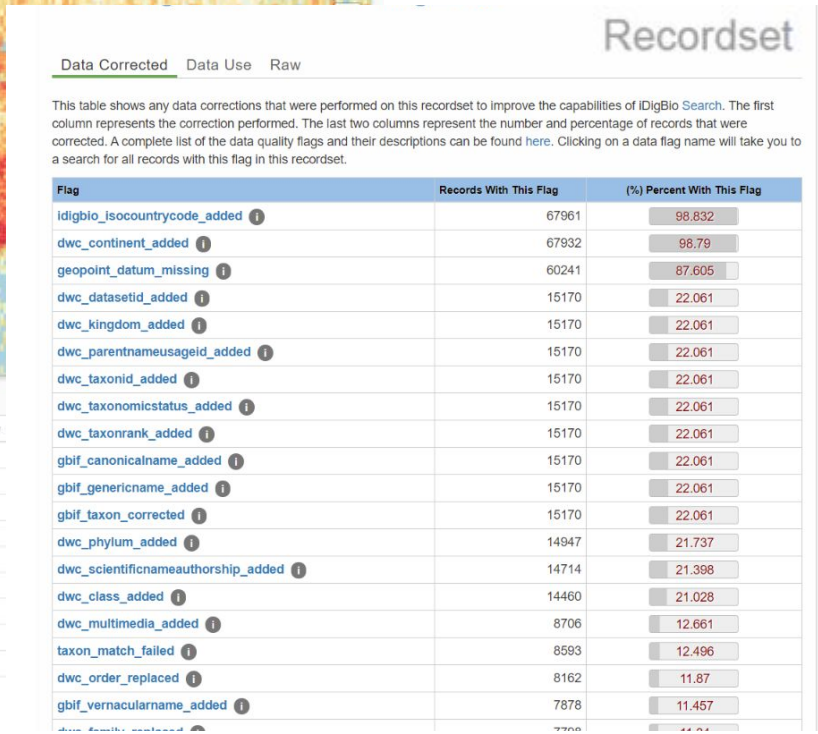
Step 6: Get interviewed for Scientist in the Spotlight

Diego Barroso, project manager of the TORCH TCN. He was featured in the September 2020 issue

- Be featured in the Scientist in the Spotlight segment
- a monthly segment on the newsletter and website
- highlights the scientists working in the ADBC community

Step 7: Use the portal for research and data cleaning – feedback!





data@idigbio.org

Step 8: Collaborate!

TCN Responsibilities

David Jennings
Project Manager
djennings@flmnh.ufl.edu

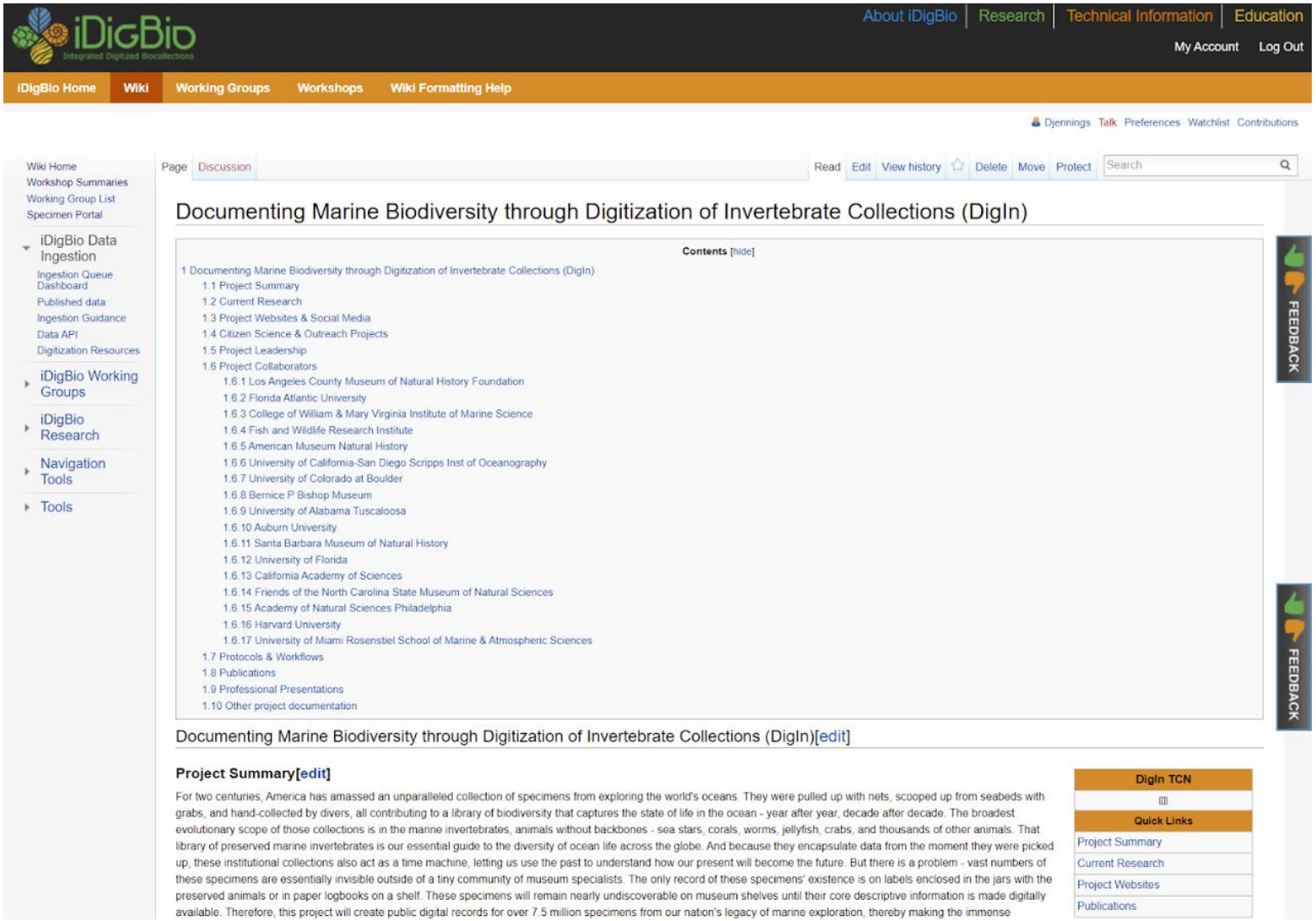
TCN Responsibilities, Part 1

1. **Maintain a TCN wiki page**
   - https://www.idigbio.org/wiki/index.php/TCNs
   - Have your PM email us to get an account
2. Submit requested info for the annual Summits
3. Provide feedback via annual community survey and other solicitations
4. **Prepare annual report for NSF**
   - Are you the lead institution or not? R.T.F.D.
   - https://www.idigbio.org/wiki/images/3/34/ADBC_AnnualReportInfoSheet.pdf

TCN Responsibilities, Part 2

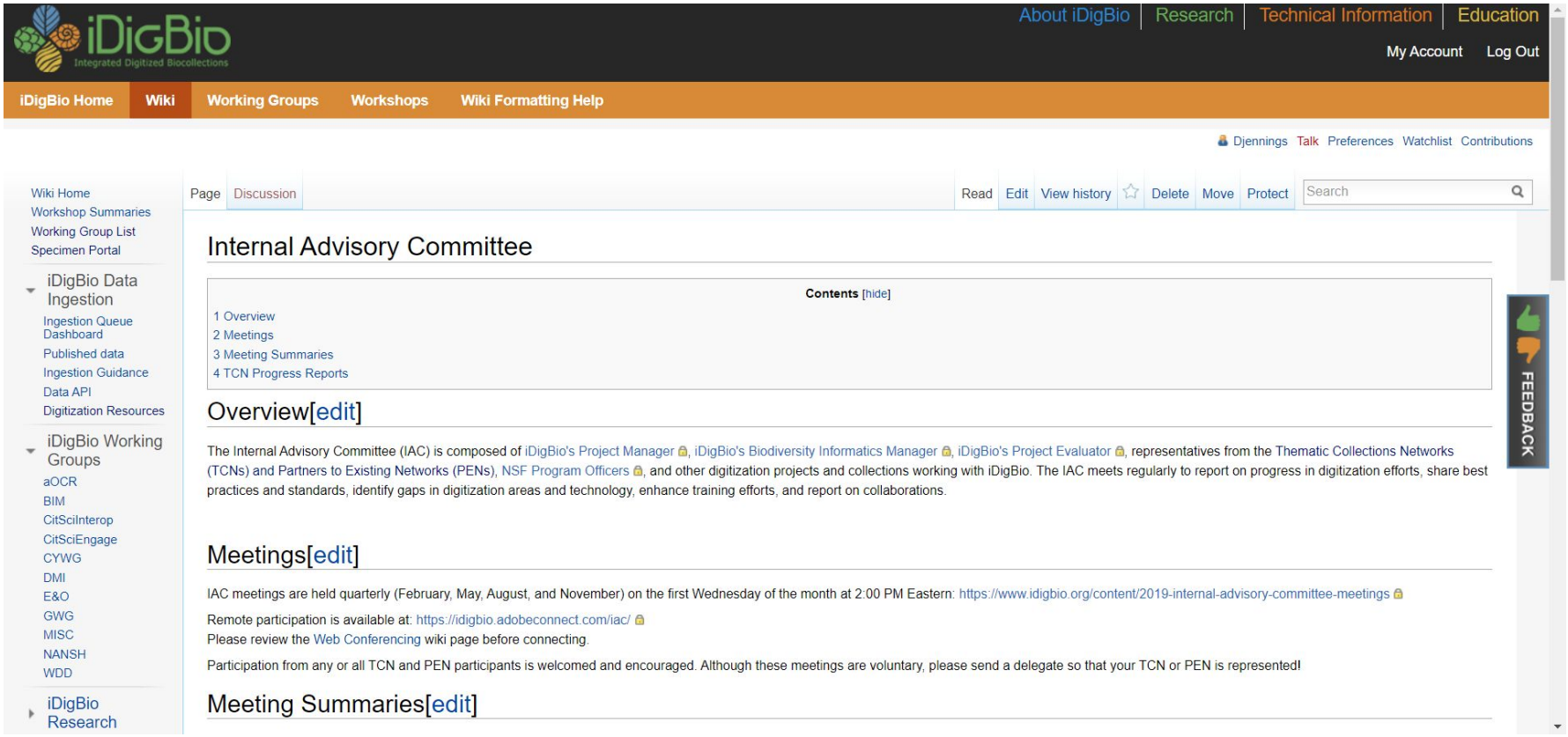
5. **Participate in quarterly TCN meetings**
   - **Feb, May, Aug, and Nov on first Wed @ 2:00 PM Eastern**; minutes published on wiki
   - https://www.idigbio.org/content/2020-internal-advisory-committee-meetings
6. **Submit quarterly reports to iDigBio**
   - **Due by the quarterly meeting**; published on wiki
   - https://www.idigbio.org/content/tcn-quarterly-progress-report-idigbio
   - Have your PM email us to get an account

https://www.idigbio.org/wiki/index.php/Documenting_Marine_Biodiversity_through_Digitization_of_Invertebrate_Collections_(DigIn)



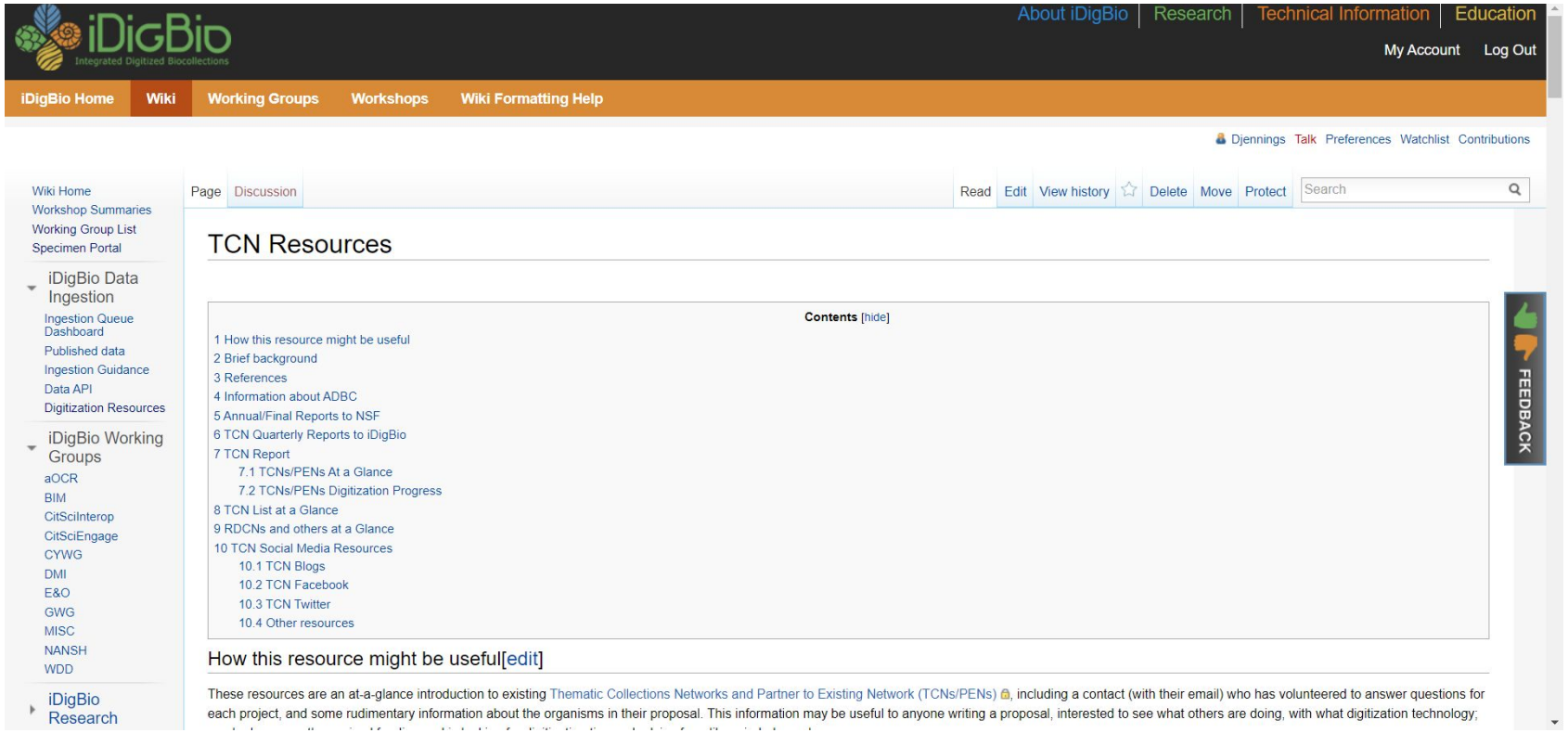
Quarterly Meeting Minutes & Reports

https://www.idigbio.org/wiki/index.php/Internal_Advisory_Committee



TCN Resources

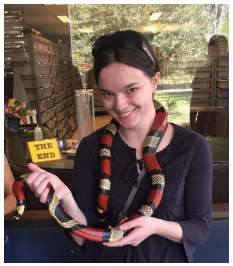
https://www.idigbio.org/wiki/index.php/TCN_Resources



Other Helpful Resources

- Welcome to iDigBio: https://www.idigbio.org/wiki/index.php/Welcome_to_iDigBio
- MediaWiki Reference Card: https://meta.wikimedia.org/wiki/File:MediaWikiRefCard.pdf
- Workshop Planning and Deliverables: https://www.idigbio.org/wiki/index.php/Workshop_Planning_and_Deliverables
- Content Style Guide and Workflow: https://www.idigbio.org/wiki/index.php/Content_Style_Guide_and_Workflow
- Adapting to COVID-19 Webinar Series → **Oct 27** topic is about virtual Project Management (including talks from fellow TCNs): https://www.idigbio.org/wiki/index.php/Webinar_Series:_Adapting_to_COVID-19:_Resources_for_Natural_History_Collections_in_a_New_Virtual_World

How To Get Your Data To iDigBio



Cat Chapman
Biodiversity Informatics Coordinator
cchapman@floridamuseum.ufl.edu

What's In This For You?

Meet the iDigBio Staff

Overview of the ingestion process

Learn how to get your data ***published***

iDigBio Data Mobilization Staff

Caitlin "Cat" Chapman
cchapman@floridamuseum.ufl.edu

Biodiversity Informatics Coordinator

Dan Stoner
dstoner@acis.ufl.edu

Data Integration Expert

data@idigbio.org

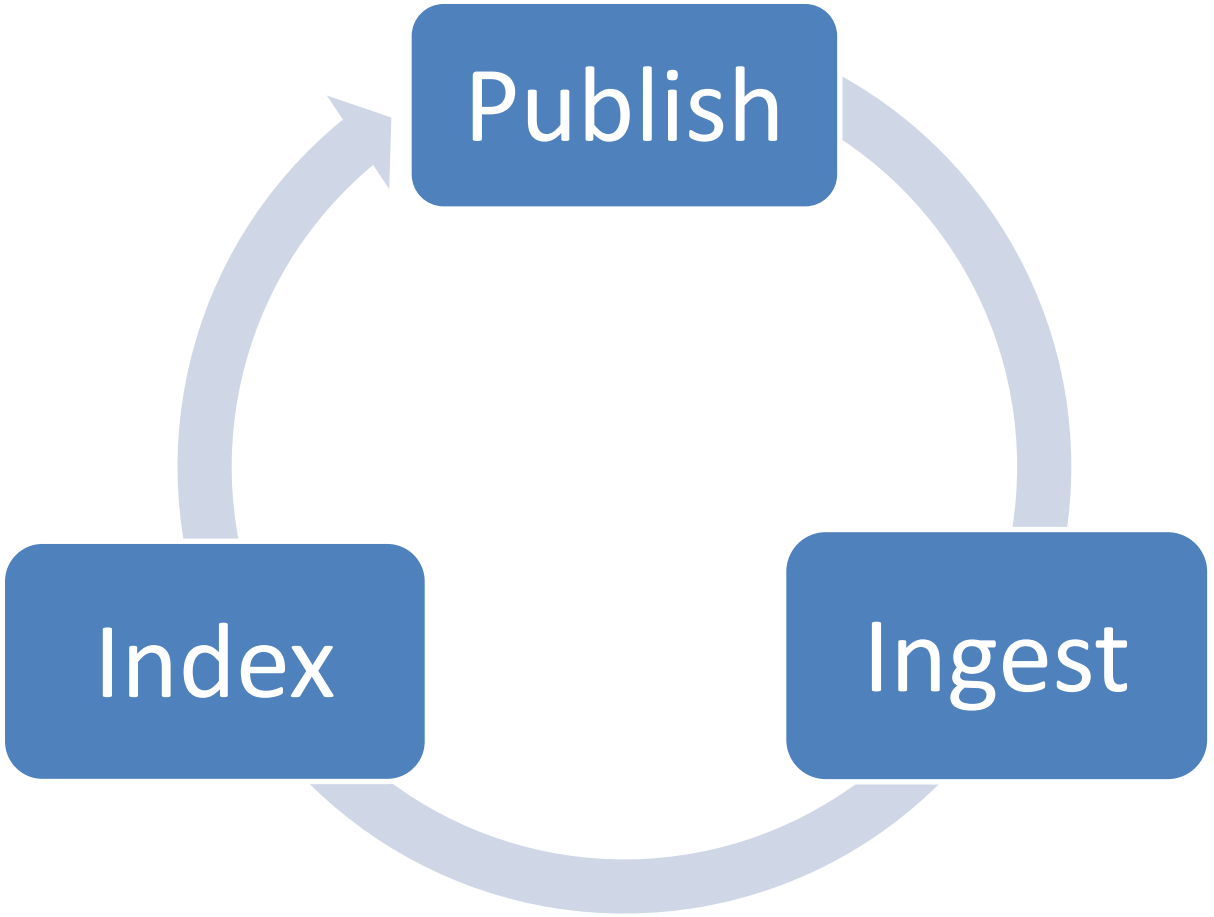
The go-to guide for data ingestion

Everything you wanted to know about preparing data for ingestion:

https://www.idigbio.org/wiki/index.php/Data_Ingestion_Guidance

- Identifiers
- **Darwin Core** – occurrence data (specimen records)
- **Audubon Core** - media

Ingestion Process



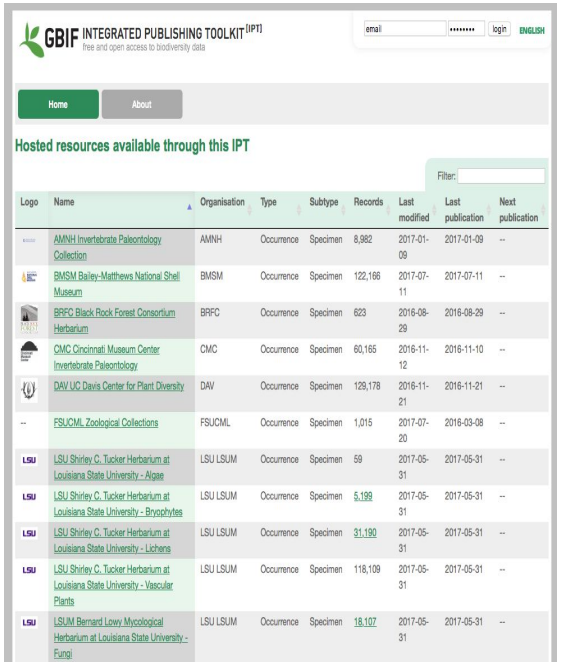
What do we mean by publishing data?

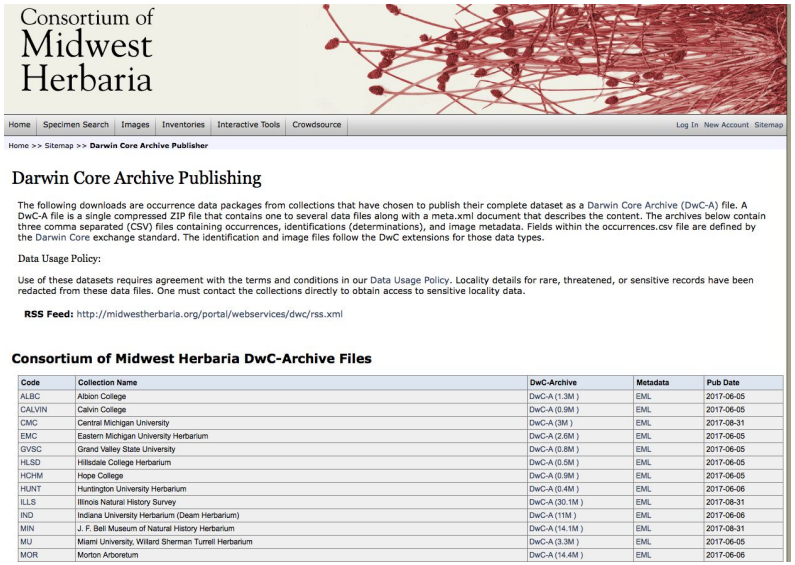
making biodiversity data publicly accessible & discoverable, in a standardized form, via a URL.

** that is reproducible and automated*

Data publishing – where to begin

- Email data@idigbio.org
  "*I'm ready*"
- Review your data and publishing options together



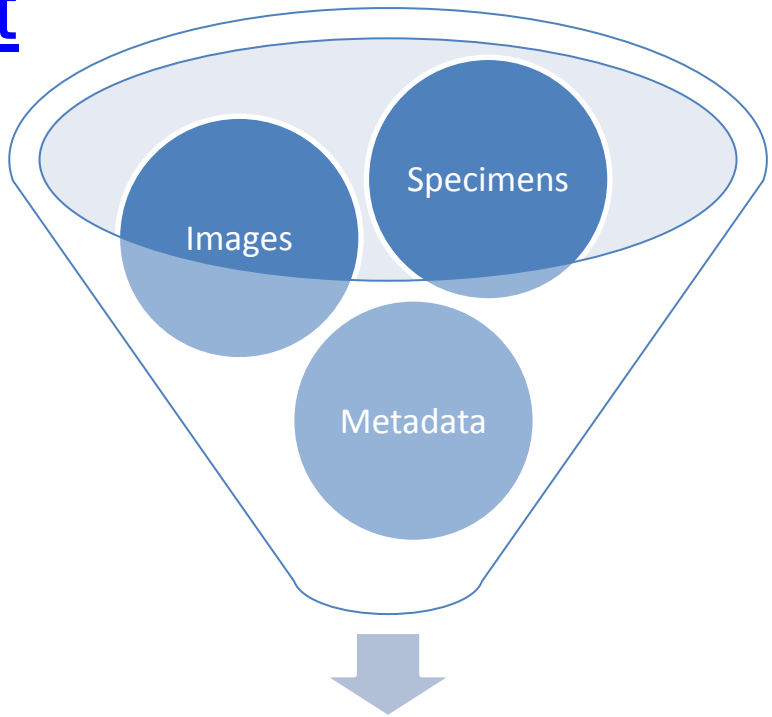


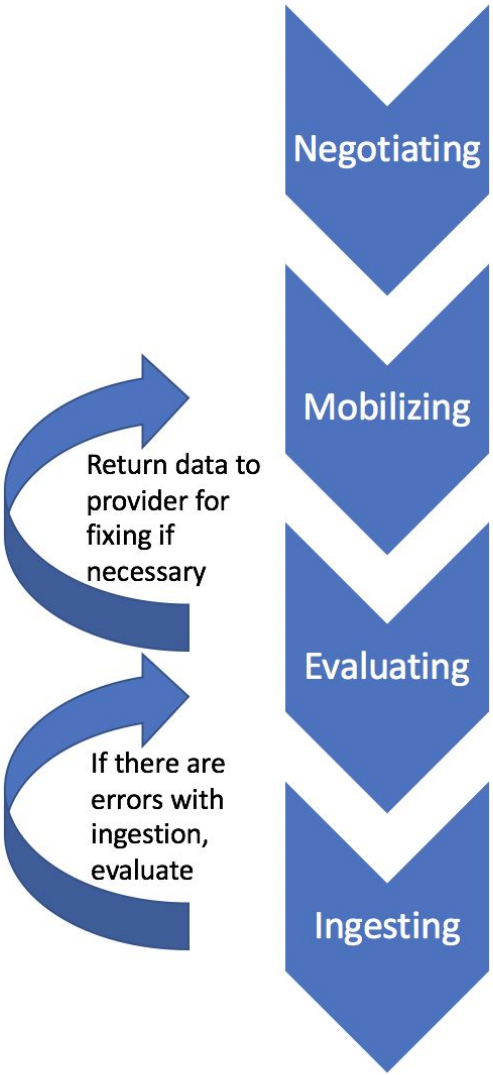
Ingestion Queue

- https://www.idigbio.org/wiki/index.php/Data_Ingestion_Report

Milestones:

- Negotiating
- Mobilizing
- Evaluating
- Ingesting





- Starts with an email, call, conversation
- Ends with submitting data for preparation and/or inspection

- Data made deliverable (e.g. DwC-A)
- Submitted to iDigBio for evaluation

- Data is evaluated to see that it meets Darwin Core standards
- Data is put into the ingestion queue and formally submitted for ingestion

- Data is ingested into the iDigBio Portal
- Ingestions are run periodically so that data is kept up-to-date
- Once data is submitted it cannot be withdrawn

DATASET INFO: info about the provider (metadata)

Document your dataset metadata with your provider information:

- responsible parties (name, address, email, role)
- institution name, institution code, collection code, logo
- URL to the collection at your institution
- descriptive paragraph about the institution, collection, and the dataset

DATASET INFO: rights

- Use Creative Commons standards:
  - CC0 for data (not copyrightable)

  - CC BY for media (at least)

IDENTIFIERS

Every specimen and media record needs an identifier. [Robust and persistent]

We like UUIDs with a prefix:

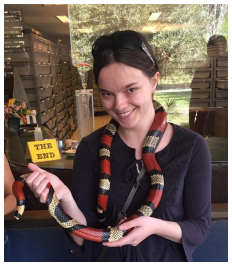
urn:uuid:2d5d3a8f-7a18-4825-a129-4a32b4ae58b8

Remember, when you're ready:

data@idigbio.org

Contact us!

Alnycea Blackwell “Allie”
Project Assistant
ablackwell@floridamuseum.ufl.edu



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Thank you! Questions?

www.idigbio.org

facebook.com/iDigBio

twitter.com/iDigBio

vimeo.com/idigbio

idigbio.org/rss-feed.xml

webcal://www.idigbio.org/events-calendar/export.ics

iDigBio is funded by grants from the National Science Foundation's Advancing Digitization of Biodiversity Collections Program [DBI-1115210 (2011-2018) and DBI-1547229 (2016-2021)]. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

iDigBio
Integrated Digitized Biocollections

VIRTUAL ADBC SUMMIT 2020

Break-out Session 2:10 - 2:55

Break 2:55 - 3:10

Break-out Follow-up Discussion 3:10 - 3:50

Meet and Greet for New TCNs and PENs 3:50 - 4:30

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