



Introduction to iDigBio

Integrated Digitized Biocollections



24 May 2014

TORCH VIII + iDigBio Digitization Workshop

Deborah Paul, on Twitter @idbdeb

Sul Ross State University, Alpine, Texas



This material is based upon work supported by the National Science Foundation under Cooperative Agreement EF-1115210. 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.



Logistics

- Adobe Connect <http://idigbio.adobeconnect.com/torch>
 - Being broadcast and recorded
 - Use microphones for comments
 - Chat with remote participants if you log in
 - See the details up close
- The Best Turtle Ever or The Power of the Collective
 - <http://tinyurl.com/torchnotes>
- Students, where are you?
- Workshop Wiki: <http://preview.tinyurl.com/idigtorchwiki>
- Twitter: @iDigBio #idigtorch @jason_brit @idbdeb
 - Your twitter handle?
- Participant List on the wiki
- Let's get started...

Overview

- NIBA > NSF > to the ADBC
 - iDigBio, TCNs and RDCNs
- iDigBio Roles and Responsibilities
- Recent Bits
 - Broadening Participation
 - Emerging Professionals
 - SCNet and the ECN model

Advancing Digitization of Biological Collections

- NIBA - Network Integrated Biocollections Alliance
 - NSF > ADBC > iDigBio
 - Integrated Digitized Biocollections - Hub
 - Thematic Collection Networks (TCNs)
 - Goals
 - enhance/expand the national resource of digital data documenting existing **vouchered** biological and paleontological **collections**
 - advance scientific knowledge by improving **access** to digitized information (including images)
 - a billion biological and paleontological records over the 10-year life of the project.
 - 10 TCNs funded so far (more soon)



→ Search Records

Full Text Search

Alpine Texas

Search

only records with images

Show Advanced Search

Current Results

Query: Contains text 'Alpine Tex' ▾

Records: 143

Approx. Download Time: 0hrs 0mins 15secs

Email: Enter Email to Download

Download



Alpine, TX

Table view

Label view

Acacia angustissima Kuntze var. *hirta* (Nutt.) Robinson, Fabaceae, Fabales, USA, Texas, Alpine, Theodore L. Steiger, 1932-5-, UConn, CONN

thumbnail not available

Agave havardiana Trel., Agavaceae, USA, Texas, Cultivated at Desert Garden, Huntington Botanical Garden, California, accession number 19648. Originally obtained from the Southwest Cactus and Novelty Shop, Alpine, Texas, Aug. 1968, as two plants.



Agave havardiana Trel., Agavaceae, USA, Texas, Cultivated at Desert Garden, Huntington Botanical Garden, California, accession number 19648. Originally obtained from the Southwest Cactus and Novelty Shop, Alpine, Texas, Aug. 1968, as two plants.



Aphaenogaster cockerelli E. Andr., Formicidae, USA, Texas, 4 W miles, TTU, TTU-Z



Aphaenogaster cockerelli E. Andr., Formicidae, USA, Texas, 26 S miles, 1978-07-28, TTU, TTU-Z



Aphaenogaster cockerelli E. Andr., Formicidae, USA, Texas, 4 W miles, TTU, TTU-Z



Argemone platyceras var. *hispida* (A. Gray) Prain, Papaveraceae, USA, Texas, 6.5 miles South of Alpine., E. R. Blakley; W.T.Marshall, 1952-06-18, DES



Arnica latifolia Bong., Asteraceae, Canada, British Columbia, Chickamin Glacier, Texas Creek Summit., T.T. McCabe, 1941-07-16, UTC



Bahia bigelovii A. Gray, Asteraceae, USA, Texas, near Alpine, 1935-09-22, KHD



Baileya pleniradiata Harvey & A. Gray ex A. Gray, Asteraceae, USA, Texas, Persimmon Gap, About 45 miles south of Alpine., Omar E. Sperry, 1935-10-07, KHD



Bommeria hispida (Mett. ex Kuhn) Underwood, Pteridaceae, USA, Texas, 5.5 mi south of Alpine, E. R. Blakley, 1952-06-18, DES



Bouvardia ternifolia (Cav.) Schlecht., Rubiaceae, USA, Texas, 5.5 mi south of Alpine., E. R. Blakley; W. T. Marshall, 1971-05-00, DES



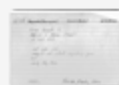
Bryum turbinatum (Hedw.) Turner, Bryaceae, United States, Texas, On soil, banks of Clarity Creek, ca. 20 mi. S of Alpine on SH 118. Grassland., R. E. Magill, 1972-07-02, FLAS



Camponotus festinatus (Buckley), Formicidae, USA, Texas, 4 W miles, TTU, TTU-Z



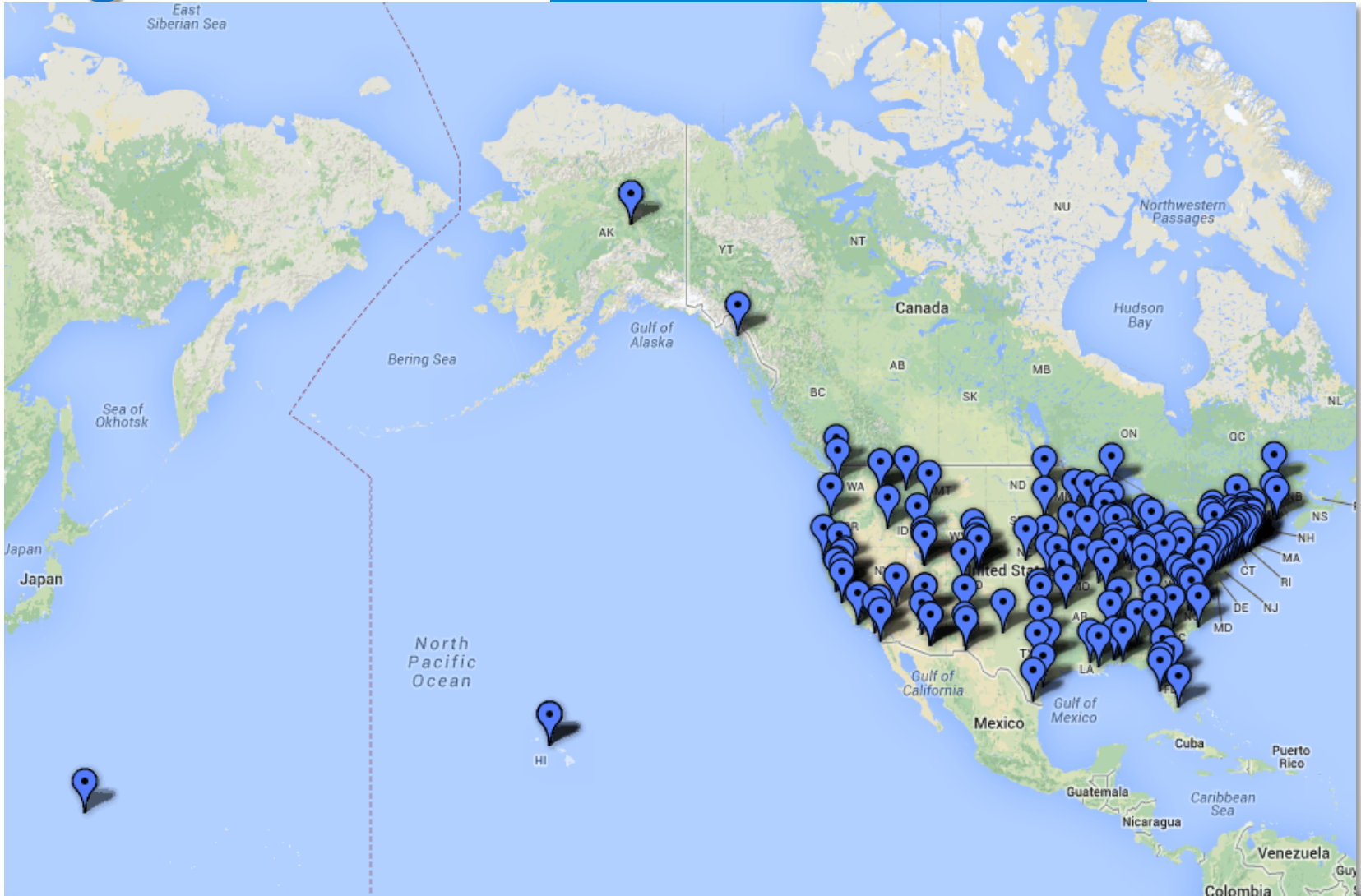
Camponotus festinatus (Buckley), Formicidae, USA, Texas, 26 S miles, 1978-07-28, TTU, TTU-Z



Camponotus sayi Emery, Formicidae, USA, Texas, 6 E miles, 1978-07-27, TTU, TTU-Z



iDigBio and the TCNs and RDCNs



To date: **10 TCNs**, + **PENs**, **160+** participating institutions, **50 states**

- Facilitate **use of biodiversity data** to address environmental and economic challenges
 - Researchers
 - Educators
 - General public
 - Policy-makers
- **Enable digitization of biodiversity collections data**
 - Develop efficient and effective digitization **standards** and **workflows**
 - **Disseminate digitization strategies**
 - Respond to **cyberinfrastructure** needs
- Provide **portal access** to biodiversity data in a cloud-computing environment
- Plan for long-term **sustainability** of the national digitization effort
 - **Expand participation: partners and data sources**

Mandate and Responsibility

www.idigbio.org
portal.idigbio.org
www.idigbio.org/wiki

- Provide/facilitate **portal access** to collections data
 - Make information available and discoverable
 - Label Data and images
- Enable digitization and research
 - Facilitate **digitization** workflows
 - Oversee implementation of standards
 - and **best practices** for digitization
 - Allow for **data discovery** across organismal groups
- Be a client of digitization projects/networks
 - Actively seek **partners** and **data sources**
 - Respond to **cyberinfrastructure** needs
- **Engage communities**
 - Collections
 - Research
 - Citizen science and education
- Support ADBC goals
 - Access to information
 - **Support** for collections
 - **Sustainability**



Broadening Participation



[About iDigBio](#) | [Portal](#) | [Technical Information](#) | [Education](#)

Google™ Custom Search

Search

[My account](#) [Log out](#)

[About iDigBio](#) | [Collaborators](#) | [Upcoming Events](#) | [News](#) | [Contact](#) | [Site Map](#)

Students Shadow Scientists at the Florida Museum of Natural History

Researchers

[Browse our specimen portal](#)



Collections Staff

[Learn how your collection can benefit from our work](#)



Teachers & Students

[Learning resources & opportunities to engage](#)



Fifteen undergraduate students from seven Florida colleges and universities converged on the Florida Museum of Natural History April 17-19 for an all-expense-paid opportunity to

Funding: It's About Time

by Kari Harris

Maintaining museum collections can be an arduous task, and two of the greatest obstacles in collections work are access to

Modernization and Digitization of the Angelo State Natural History Collections

by Marcia A. Revelez

The Angelo State Natural History Collection at Angelo State University (ASU) in San Angelo, Texas, contains more than 120,000 botanical specimens.

The Small Collections Network: Recruiting, Retaining, and Sustaining Small Collections in Biodiversity Digitization

by Anna Monfils and Gil Nelson

Small natural history collections constitute a major source of information for understanding global biodiversity. Typically



<https://www.facebook.com/groups/spnhc.epg/>

SPNHC

EMERGING PROFESSIONALS GROUP

SPNHC Newsletter

SPNHC Emerging Profe...

Members

Events

Photos

Files

Notifications

+ Create Group



Write Post Add Photo / Video Ask Question Add File

Write something...



Katie McComas

May 10 at 4:49pm

New post up on the blog by Katharine Corriveau, about advocating for collections in museum exhibits. Check it out - it's a great read!



Stealing the Spotlight in NHMs

ABOUT

44 members

Closed Group

Emerging Professionals Group for members of the Society for the Preservation of Natural History ... See More

44 members (4 new) · Message · Invite by Email

+ Add People to Group

SUGGESTED GROUPS

See All



Natural History Collections

Andy Bentley and 5 other friends joined

+ Join



Emerging Museum Professionals

Julia Skinner joined

+ Join



Vertebrate Paleontology Preparatio...

Tim White and Chris Norris joined

+ Join



ARC

1,775 members

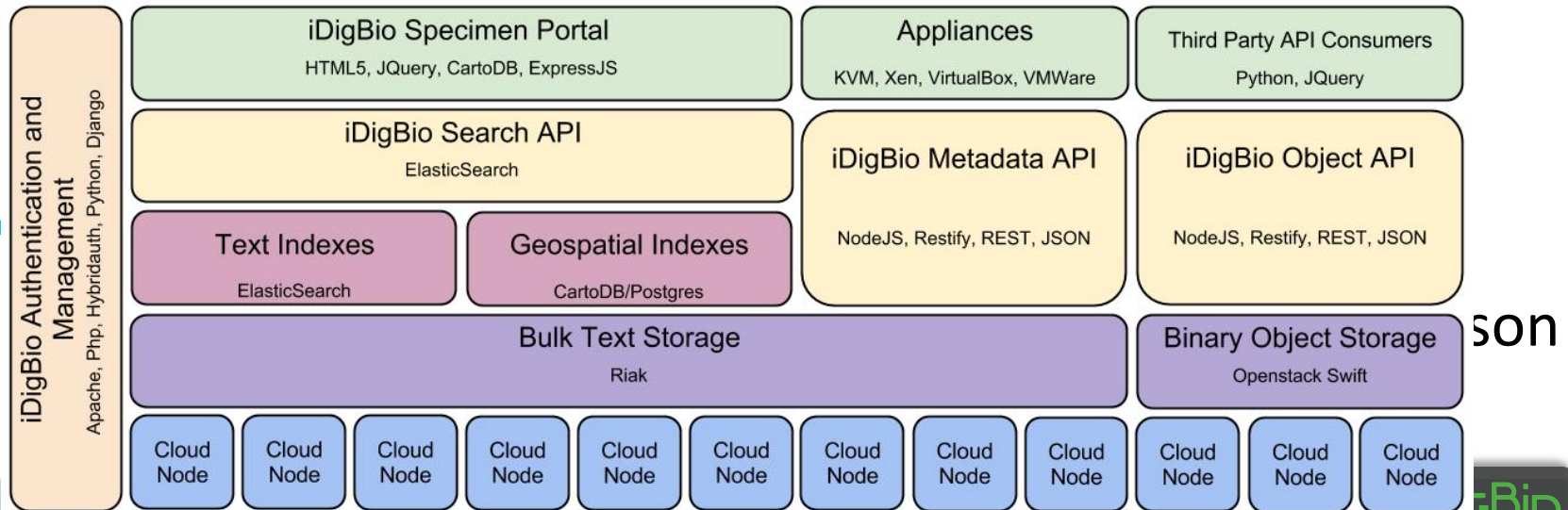
KEY Features of iDigBio

Integrated Digitized Biocollections

- Ingest **specimen data** with emphasis on use of **identifiers**
 - **any data elements**
 - plus associated still images, video, audio, and other **media**
- Maintain persistent **datasets** and **versioning**,
 - new and edited records to be uploaded as needed
- Ingest **linked documents** and associated literature
 - field notes, ledgers, monographs, related specimen collections, etc.
- Provide **virtual annotation** capabilities
 - track annotations back to the originating collection (collaborating with **FilteredPush**)
- Facilitate sharing, **integration** and **enhancement** of data relevant to biodiversity research
- Provide **computational services** for **biodiversity research**

Building the iDigBio Cloud

- Cloud-based strategy
 - Providing useful services/APIs (programmatic and web-based Application Programming Interface)
 - Federated scalable object storage and information processing
 - Digitization-oriented virtual appliances



son

Mandate and Responsibility

www.idigbio.org
portal.idigbio.org
www.idigbio.org/wiki

Grand Challenge

Develop a cloud computing infrastructure that links biological data from collections across the U.S. through one or more unified web interfaces to overcome the limitations of “data silos.”



More recently, we have been encouraged by NSF to establish **international collaboration and sharing.**



You have a part in reaching this goal!



Upcoming iDigBio Workshops, Symposiums, Webinars, ...

Opportunities

TORCH - iDigBio Digitization Workshop	Sul Ross State University (Alpine, Texas)	06-24-2014
WEBINAR: Large Collections Supporting Small Collections	https://idigbio.adobeconnect.com/scnet	06-02-2014
Georeferencing Natural History Specimen Data Workshop	Renaissance Oklahoma City Convention Center Hotel and Cox Convention Center (Oklahoma City, Oklahoma)	06-06-2014 to 06-10-2014
WEBINAR: AIM-UP!: Advancing Integration of Museums into Undergraduate Programs	https://idigbio.adobeconnect.com/scnet	06-09-2014
iDigBio Steering Committee & Executive Committee Meeting	UF Building 105, Room 310 (Gainesville, Florida)	06-12-2014
SPNHC 2014, Cardiff, Wales	Cardiff Millennium Centre (Cardiff, Wales, UK)	06-22-2014 to 06-27-2014
Recruiting, Retaining, and Supporting Small Collections in Biodiversity Digitization Initiatives	Cardiff Millennium Centre (Cardiff, Wales, UK)	06-25-2014
Managing Archives, Special Collections and Original Source Documentation in Natural History Collections: Challenges and Opportunities.	Cardiff Millennium Centre (Cardiff, Wales, UK)	06-25-2014
Update on Initiatives and Progress in Digitization of Natural History Collections	Cardiff Millennium Centre (Cardiff, Wales, UK)	06-25-2014
SPNHC 2014 DemoCamp	Cardiff Millennium Centre (Cardiff, Wales, UK)	06-26-2014
SPNHC 2014 Special Interest Group Session: Collections Digitization and Opportunities for International Collaboration	Amgueddfa Cymru – National Museum Wales (Cardiff, Wales, UK)	06-27-2014
iDigBio Retreat II	Learning Center at the Austin Cary Forest (10625 NE Waldo Rd, Gainesville, FL 32609) (Gainesville, Florida)	06-30-2014
iDigBio End-of-the-Fiscal-Year Party	Tall Paul's (10 SE 2nd Ave) (Gainesville, Florida)	06-30-2014
iDigBio Steering Committee & Executive Committee Meeting	UF Building 105, Room 310 (Gainesville, Florida)	07-10-2014
Botany 2014 - New Frontiers in Botany	Boise Centre (Boise, Idaho)	07-26-2014 to 07-30-2014
Georeferencing Natural History Collections: A Crash Course in Translating Locality Data into Geographic Coordinates	Boise Centre (Boise, Idaho)	07-27-2014
Digitized natural history collections records in traditional research, collaborative research, and big data research	Boise Centre (Boise, Idaho)	07-29-2014
Botanical DNA Banking and the Systematics Community: Working Together to Meet Future Research Challenges	Boise Center (Boise, Idaho)	07-29-2014

<https://www.idigbio.org/outreach-events-sidebar>



Ask us about...

- Fossils in the Cloud
- Research using Museum Specimen Data
- Biodiversity Informatics
 - Data and Computational Literacy
- Crowd-sourcing data transcription
- Georeferencing resources

got ?