



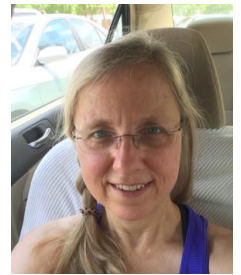
Announcements

- Twitter **#SPNHC2015 #specimens**
 - @denasmithnufio @vblago @idbdeb
- Remote access
 - <http://idigbio.adobeconnect.com/spnhc2015sfc>
- iDigBio Wiki: <http://tinyurl.com/spnhc2015sfc>
- Recordings
- Discussion and Questions

Specimens Full Circle: [Collection](#) to [Digitization](#) to [Data Use](#)

Specimens Full Circle: Collection to Digitization to Data Use and Re-use

Dena M. Smith, CU Museum of Natural History
Deborah Paul, Florida State University, iDigBio
Vladimir Blagoderov, Natural History Museum (NHM)
@SPNHC2015 Gainesville, Florida. May 2015



Specimens Full Circle

- Current trends and issues
 - Collecting
 - Digitization including Imaging
 - Managing Digitization Projects and Data
 - Using the Data in Research
- We need clones at SPNHC 2015 (a good thing)!
- Welcome students

iD: _____

Field Number: US15-_____

Country: UNITED STATES **State:** FL

Elev.: _____ m **GPS Error:** +/- _____

Specific Locality: Gainesville, University of Florida

General Site Description/Overview: _____

Collection sub-code A: Collectors: _____

Host Plant: _____

Taxa Collected/Notes: _____



Occurrence Data **Determination History**

Collector Info

Catalog Number? Other Numbers? Collector

Associated Collectors

J.E. Cantlon, A.L. Rebuck

Latest Identification

Scientific Name:
Abietinella abietina

ID Qualifier: ?

Identified By:

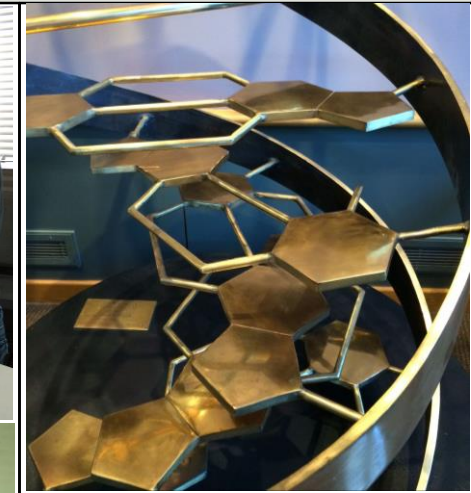
Locality

Country State/Province

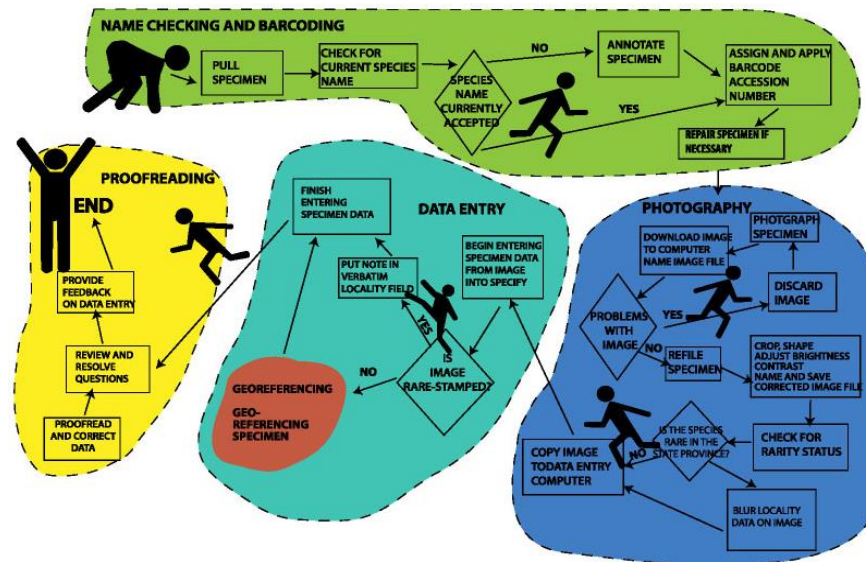
Locality:

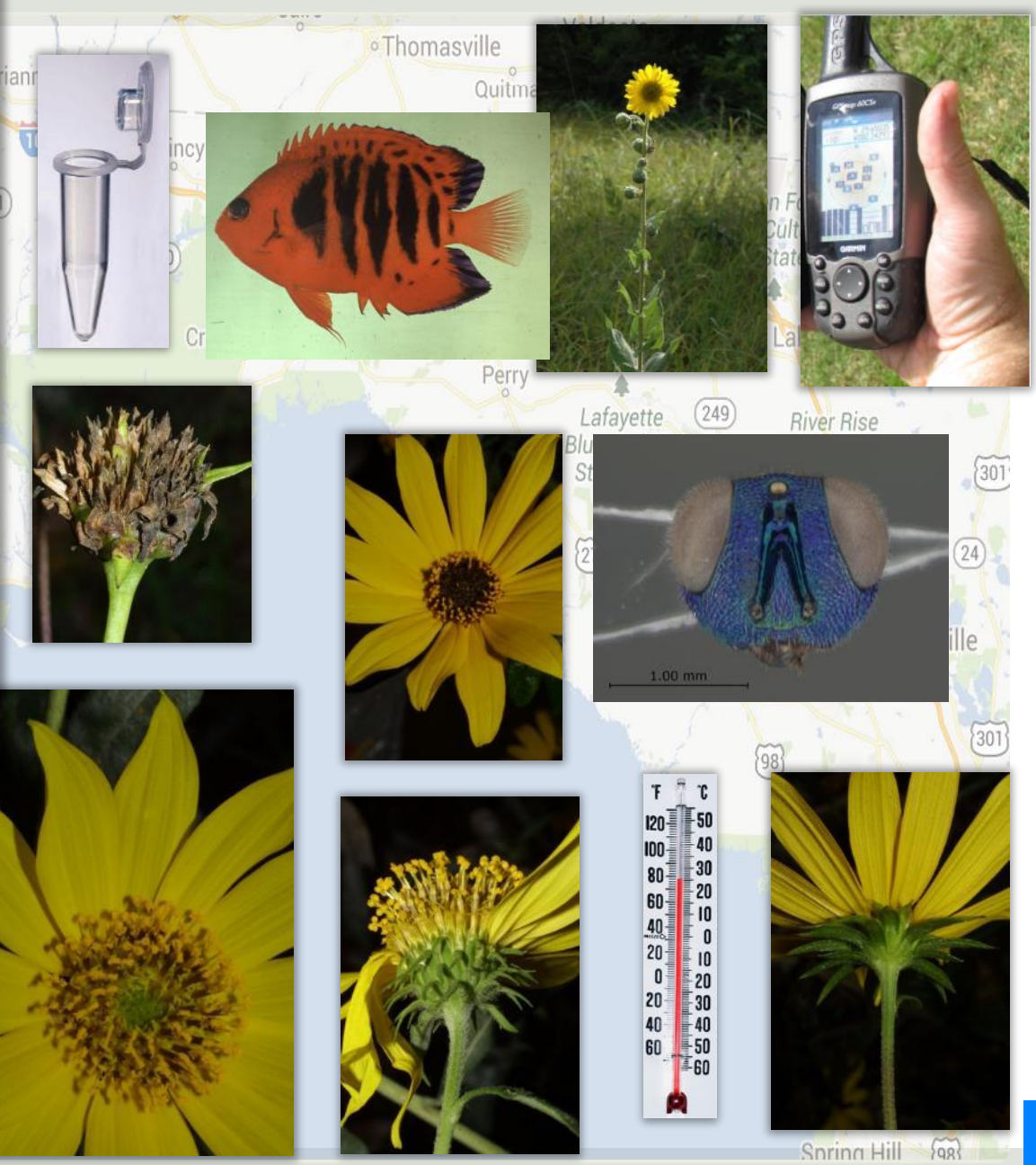
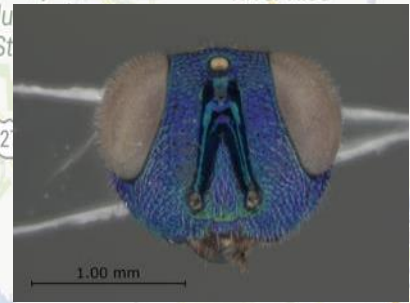
Locality Security

Latitude Longitude Uncertainty (meters)



DATA PEOPLE IN THE LOOP and SPECIMENS

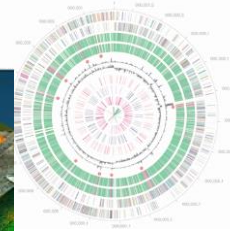
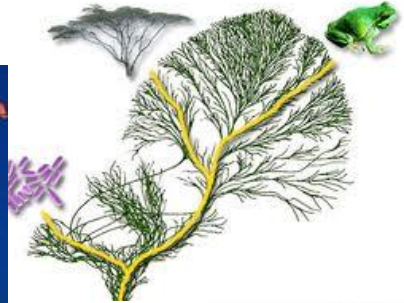
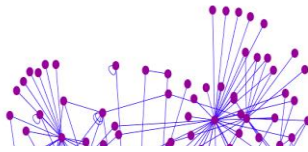
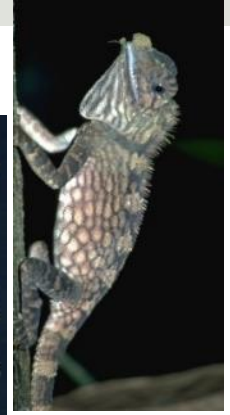
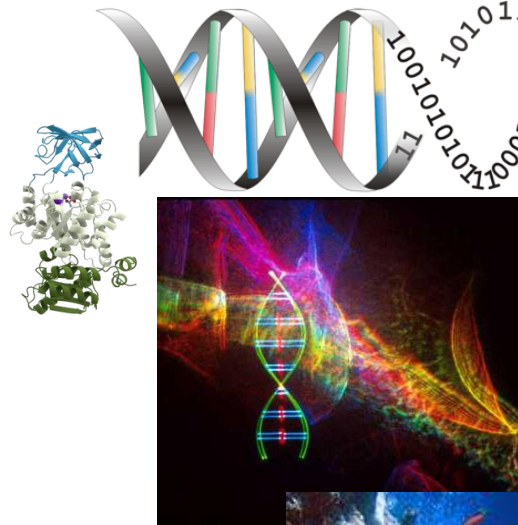




It's about the science questions

Facilitate use of biodiversity data to address environmental and economic challenges

- Researchers
- Educators
- General public, citizen scientists
- Policy-makers

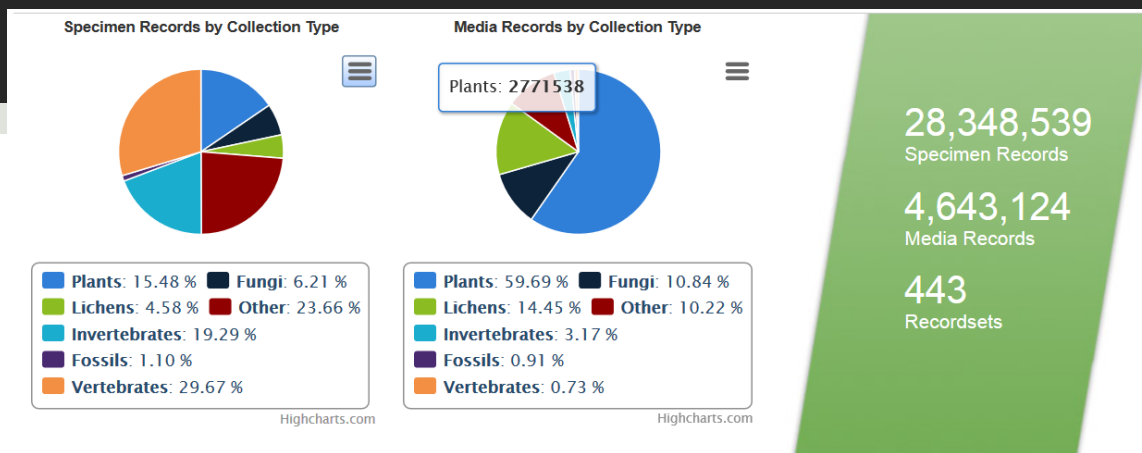


Climate Change
Invasive Species
Human health
Food Security



build an accessible
aggregated,
integrated,

scalable, **specimen database** (US collections focus)




Making data and images of millions of biological specimens available on the web

28,348,539
Specimen Records

4,643,124
Media Records

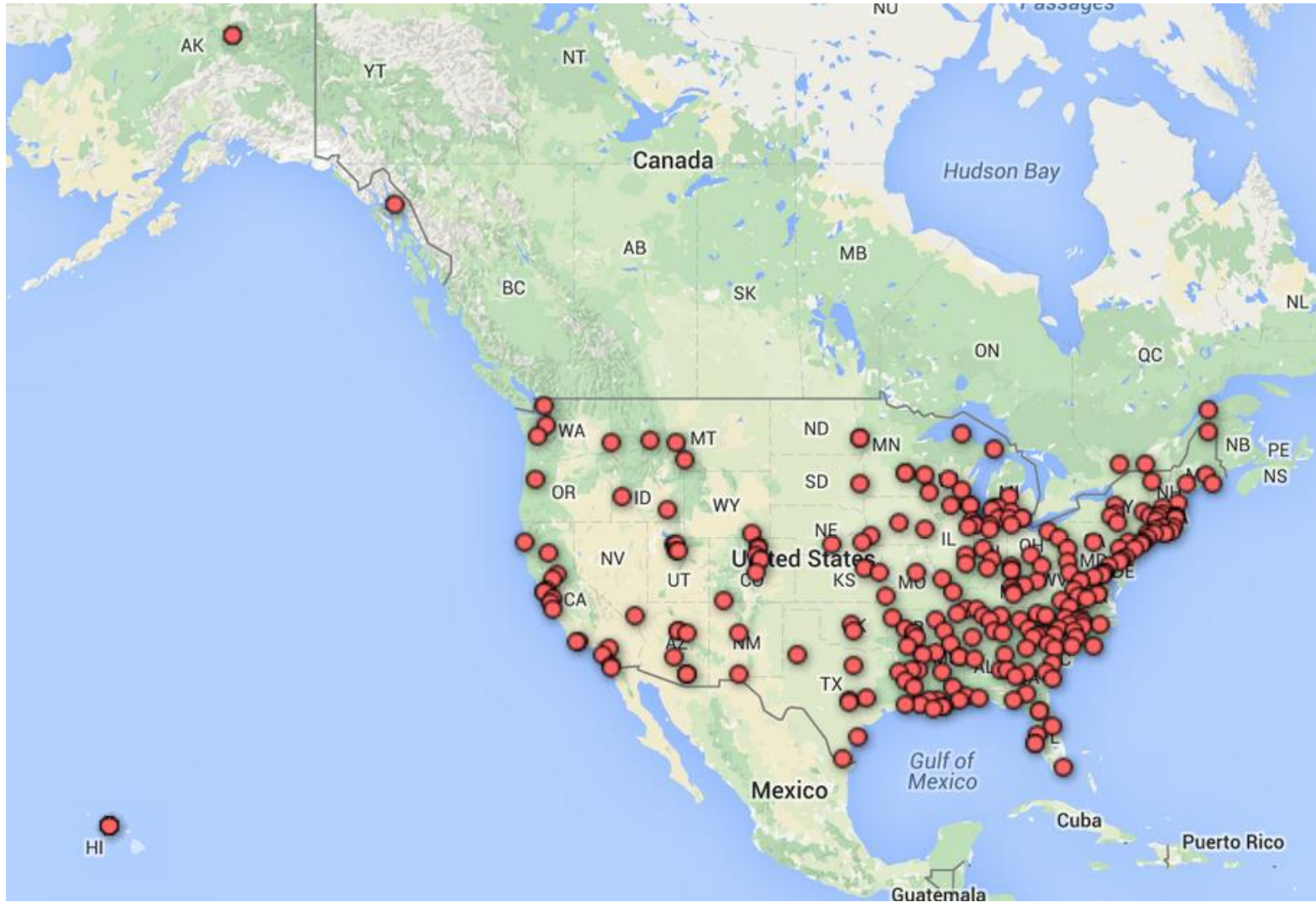
443
Recordsets

[Search the Portal](#)

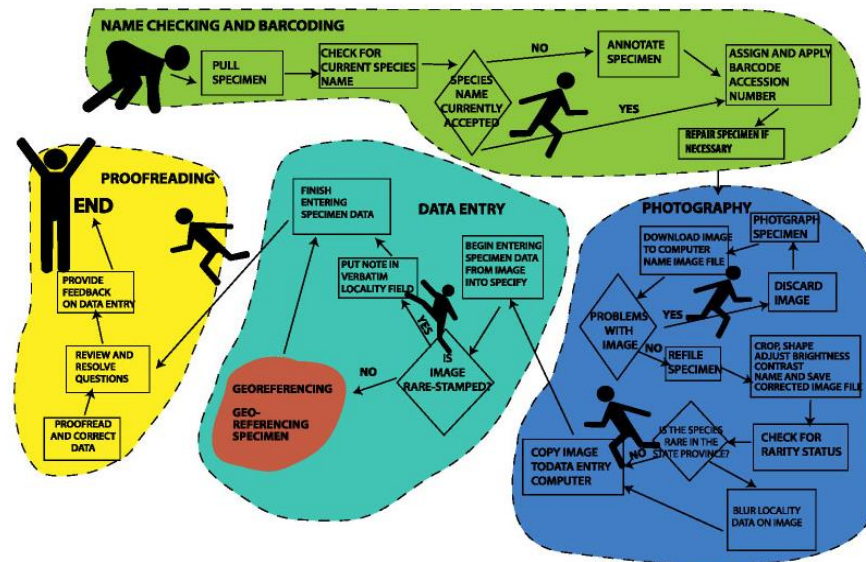
Why digitization matters
More about what we do and why

- facilitate and increase **participation in digitization**
- enable **researchers' access** to and use of the data
- build **partnerships** to expand and enhance

Thematic Collection Networks (TCN)



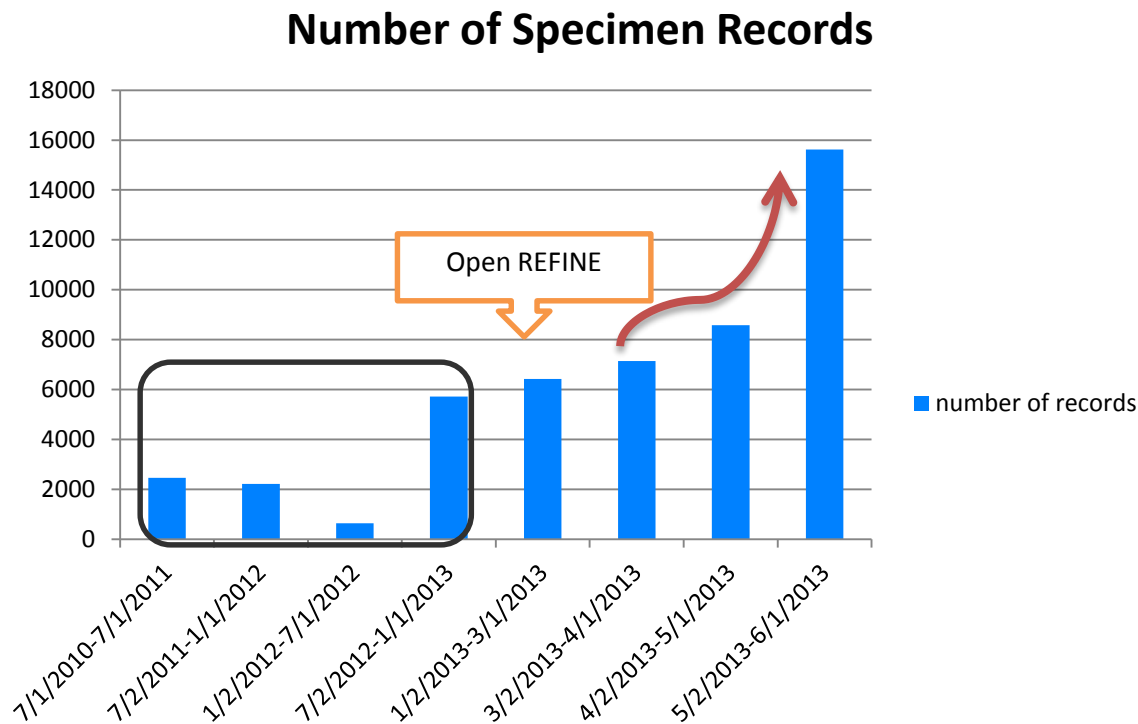
DATA PEOPLE IN THE LOOP and SPECIMENS



What's in a name?

Research Information Manager	Technology Liaison to Science
Biodiversity Informatics Manager	Biodiversity Informatics & GIS Lab Manager
Collections Database Architect	Information Manager
Data Curator	Bioinformatics manager
Manager of Biodiversity Informatics	Research Specialist
Research Project Manager	Biodiversity Informatics Manager
Biodiversity Informatics Manager	Data Manager
Information Manager	Biodiversity Information
Assistant Botanist / Assistant Curator	Head of Nomenclature and Taxonomy (Biodiversity Informatics)
Head, Computer Systems Office	Sr. Database Manager
Collection Manager	Database Admin/Programmer
Assistant Curator and Virtual Herbarium Coordinator	Biological Informatician

Skills and tools resulting in Data migration rate change



- iDigBio ‘Train the trainers’ georeferencing workshop 10/8/2012
- In-house transfer of training knowledge 11/2011
- Current Specify records 50589 [c. 161903 specimens]

Digitisation Maturity?



Figure 4 Digitisation maturity model

(Standard) Data and Metadata.

It's about **discovery** and **data re/use**.

It's about **feedback** and **accountability**.

It's about **credit** and **attribution**.

Make sure your data are not under a rock.



Let's follow the *Specimens and Data Full Circle!*



Find us on Twitter @denasmithnufio @vblago @idbdeb

Special thanks to Reed Beeman, Katja Seltmann, the SPNHC 2015 organizers, Libby Ellwood, and Derek Woller