

Task Cluster – Georeferencing and Enrichment Degel own of Victory, Victory State Forest,

Presenter: Deborah Paul Florida State University Integrated Digitized Biocollections (iDigBio)

Brazilian Biodiversity Information System (SiBBr) Launching Event 25 November 2014 Brasilia, DF, Brazil











GEOREFERENCING AND ENRICHMENT **Image Capture Image Processing** Predigitization **Curation or** Staging Data Image / Data Capture Storage **Georeferencing** and Enrichment



What is an ideal georeference?

A numerical description of a place
that can be mapped
and that describes the spatial extent
of a locality
and its associated uncertainties
as well as possible.







anna







Spring Hill Tos



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Notebooks Card Files Journals Videos, ...



National Herbarium of Canada

FLORA OF CONTHEEST TERRITORIES

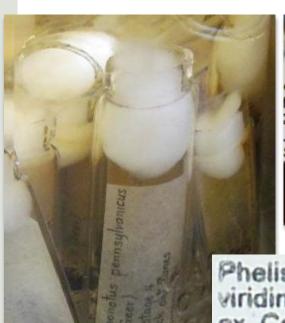
Papaves mudicaule L

Hab. and Loc., Arctic Coast west of Mackenzie River delta: Between King Pt. and Kay Pt., 69° 12' N., and 138° to 138° 30' W.

Derni - barren ridges

Collector, A. E. Porsild

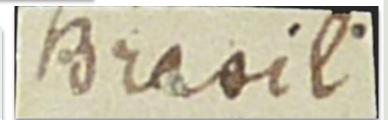
July 23-25, 1934



SWEDEN, Vr. Munktors konailway
Ransäter, Rudstorp, Sandy failway
embarikment through pasture land.
N66°36,454′ E13°69.030′ (= Trap ID 1378)
R31.vii - 12.viii.2005 (= coll.event ID 1378)
R92. Swedish Malaise Trap Project
R92. Swedish Museum of Natural History
Swedish Museum of Natural History
NHRS-HY ME
000005146



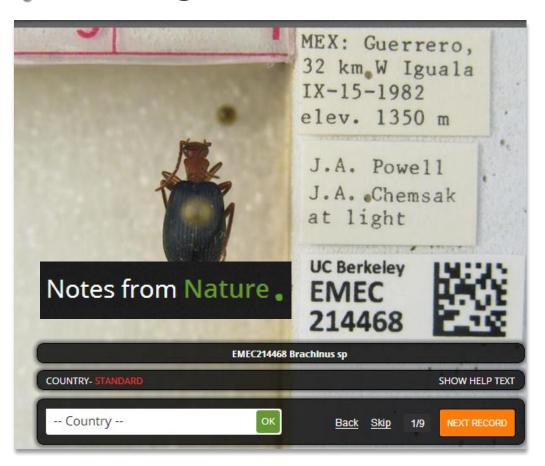
Phelister viridimicans Schmidt, 1893 ex. Coll. Schmidt-Bickhardt





Georeferencing Issue

Legacy data to georeference





Georeferencing Trend

- Born digital
- Current practices

Ambassadors for best practices

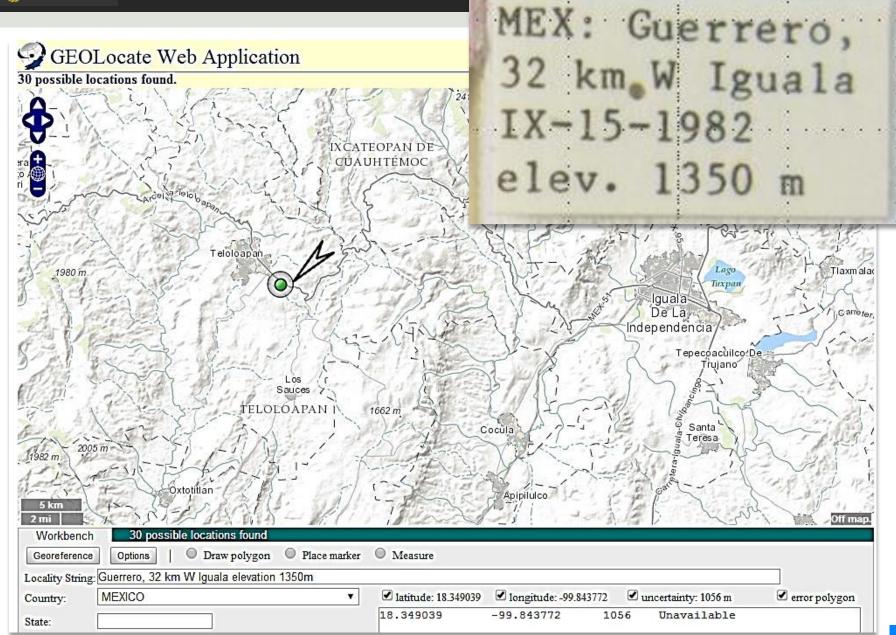
Check / Share best practices



MVZ Guide for Recording Localities in Field Notes

Complete locality data, including the information outlined below, should accompany all collected material and observations.









iDigBio GWG Train the Trainers I and II

- 5 Day Training
- Pay-it-forward
- Community Resource

10:00	Workshop Overview, Introduction to Georeferencing, and Thinking like a Trainer	David Bloom
10:20	Selected Survey Results, Train-the-Trainers Second Georeferencing Pre-workshop Survey Report and Update from TTT1 Participants Pay-It-Forward Efforts	Shari Ellis
10:35	Break	
11:00	Georeferencing Introduction: Collaboration to Automation	Dave Bloom
11:30	Geographical Concepts	Nelson Rios
11:50	Point-Radius Method and Best Practices	Jessica Utrup
12:10	Darwin Core Standard, Key Terminology iDigBio Recommended fields	Dave Bloom
12:30	Lunch (Provided)	
13:30	Georeferencing Quick Reference Guide, Locality Types, and Georeferencing Template	Una Farrell
14:40	Georeferencing Calculator, Calculator Manual	Dave Bloom
15:30	Break	
16:00	Georeferencing Calculator Example and Exercises, MaNIS/HerpNET /ORNIS Georeferencing Guidelines	Dave Bloom
17:00	Day in Review and Considerations for Trainers-to-be Trivia Question of the Day A.M. Recording: Start-10:30 A.M. Recording: 10:40-12:30	David Bloom Debbie Paul







georeferencing.org

HOME TOOLS GAZETTEERS DATA SOURCES TRAINING

Georeferencing

Mapping Resource Hub

Home

Welcome to Georeferencing.org!

Here you will find a collection of resources pertaining to the process of georeferencing.

Tools

Gazetteers

Data Sources

Training



Georeferencing Issue

biggest challenge?

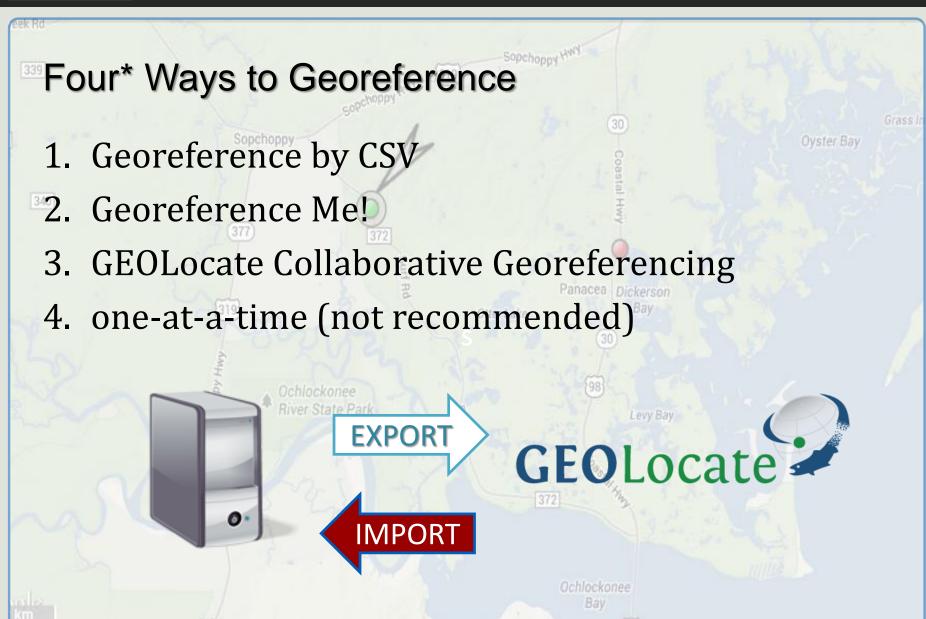


Reintegration

- Biodiversity Informatics Skills
- Database issues









Four* Ways to Georeference

Meaningful datasets make georeferencing: * faster

* less error prone * more fun!

Workflow Overview

- Where is your locality data? Collate it. Export it.
- Into a CSV file
 - file-naming strategy, save files
 - Upload to GEOLocate and Georeference by CSV
 - or from CSV, "Call GEOLocate" using "Georeference Me!"
 - or upload CSV to GEOLocate Collaborative georeferencing
- Use GEOLocate to visualize work before import
- Use CSV-file Georeferences to populate your database
- or copy-and-paste georeferences directly into database
- or GEOLocate is embedded in your software



Project Management & Workflow Hints

Innovating for Cost, Speed, Confidence

- familiarity with the localities is key
- language
- organismal group
- land signatures
- hint: advice / policy on how long to spend on 1 locality
- expert or novice?

- 1 in 10 dups (VertNet experience from ORNIS)
 - could it be higher as we have more locality data?
- Could searching OCR output help? (yes)





Links to Cool Stuff

- iDigBio GWG Listserv https://www.idigbio.org/wiki/index.php/IDigBio_Listservs
- Got GEOreferencing Questions?
 - idigbio.org > register
 - Resources > Forums > Georeferencing Working Group (GWG)
- iDigBio GWG Wiki http://tinyurl.com/idbgeowg
 - ttt1 and ttt2 resource pages
 - power points, videos, handouts, how-to's, trainers
 - sample at http://tinyurl.com/idbttt2
- GEOreferencing Trainers
 - https://www.idigbio.org/wiki/index.php/TTT1TTT2
- web resources https://www.idigbio.org/wiki/index.php/Georeferencing
- GWG help with planning a georeferencing workshop
- videos (vimeo and idigbio)
- Geo-rectify an old (online) map
 - http://www.georeferencer.org/







Enrichment

- Citizen Science
- Tie specimens to observations
- Field notebooks*
- Post public/citizen science processing
 - Volunteers get credit
- Data discovery
 - dupes, grey literature, more complete records, annotations of many kinds, georeferenced records
- Data sharing / publication
 - Reveals data issues that can now be fixed
 - Managing data enrichment
- Data citation
- Data re-use

- Data Quality
- Data Integrity
- Data Enhancement





Search

My account Log out

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

24,705,794 Specimen Records

4,046,837

Media Records

357

Recordsets

Search the Portal



Why digitization matters

More about what we do and why



Digitization

Learn, share and develop best practices



Sharing Collections

Documentation on data ingestion



Working Groups

Join in, contribute, be part of the community



Proposals

New tool and workshop ideas



Citizen Scientists

How can you help biological collections?



Obrigada SiBBr! Find out more at ...

https://www.idigbio.org/content/workflow-modules-and-task-lists https://www.idigbio.org/wiki/index.php/Georeferencing_Working_Group





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idigbio.org/rss-feed.xml



dpaul@fsu.edu @idbdeb



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







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Portal Tutorial





Members Settings Data Sources sort by date Click on an item's header to expand/collapse its content. community-wide date added: Thursday, August 15, 2013 w montana Secondary name: montana Path: drive Type: CSV Owner: nelson Number of records: 250 Status: cached Task: Records statistics: Community specimens VIEW RECORDS processed: 24 DOWNLOAD RECORDS corrected: 22 skipped: 2 total processed: 24 Community Localities processed: 23 corrected: 21 skipped:2

total processed: 23



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Advanced

Advanced GEOLocate Course - Services, Integration, End-to-End

Workflows

On Friday, September 6th, Nelson Rios from Tulane University and the FishNet2 project, presented a lecture covering advanced use of GEOLocate software and services available through the web-based Application Programming Interface (API). Using Adobe Connect meeting software, over 30 people came to find out what they can do with GEOLocate tools and services beyond the online public user-interface. The recorded