iDigBio Georeferencing Working Group (GWG)

Overview

The iDigBio GWG currently consists of 16 members from across the natural history and biodiversity spectrum. We work to provide a variety of georeferencing resources for iDigBio TCNs and PENs as well as the broader community. Many of our resources are available online and trained georeferencing trainers are available at institutions across the USA. We welcome any and all questions, suggestions, and requests.

GWG Train-the-Trainers 3

Plans for a third Train-the-Trainers workshop are underway! Keep your eyes on the iDigBio website for summer/fall 2016. If you have a georeferencing course content request, we'd love to hear about it.

SERNEC
Southeast Regional Network of Expertise and Collections

TtT3?

Invert · E · Base

Worldwide Community

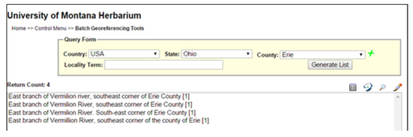
MiCC
Microfungi Collections Consortium

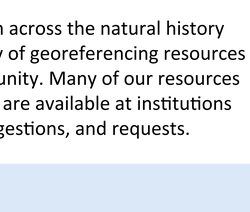
GREAT LAKES INVASIVES NETWORK

Got Georeferencing Workflows?

Georeferencing protocols and workflows have been updated on our wiki page. Come and check them out, or let us know if you have one of your own that you'd be willing to share!

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

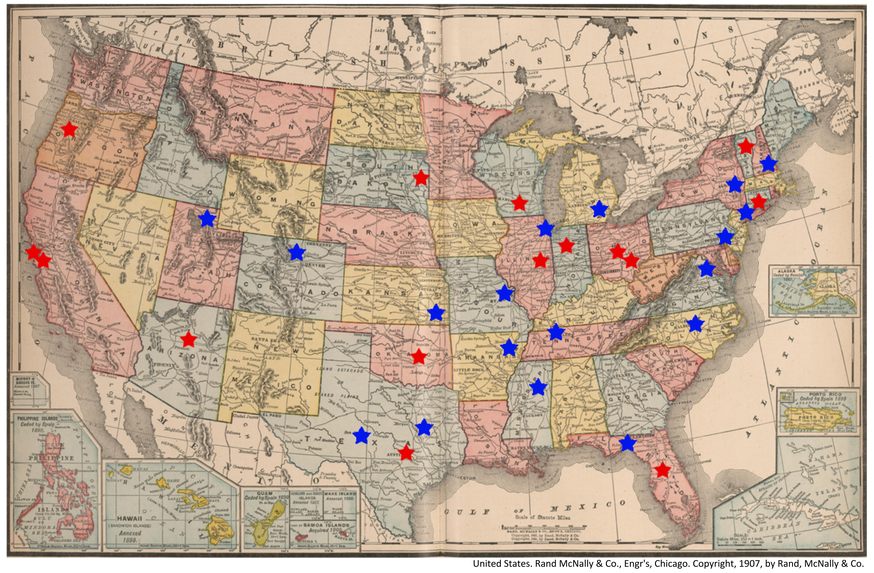




Good and Bad Localities Document Update

Have you been struggling with how to write a good locality description? Have your students and collectors been ignoring all of your helpful tips? We've updated the tips, tricks, and cheatsheet for how to write a good locality description. We've updated the document to include all of the suggested fields and their Darwin Core equivalents.

Share it with your collectors today!



United States. Rand McNally & Co., Engr's, Chicago. Copyright, 1907, by Rand, McNally & Co.

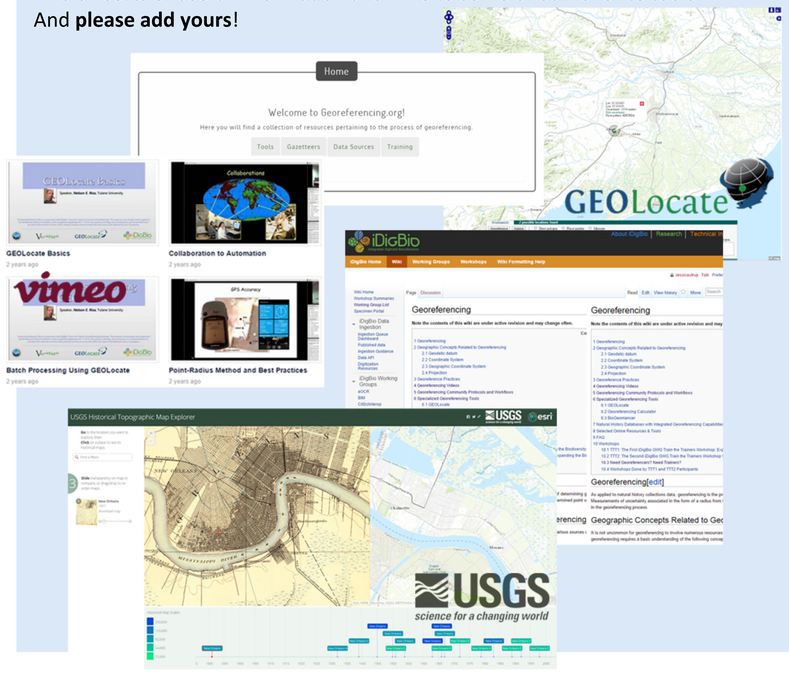
★ Train-the-Trainers 1 (2012)

We're everywhere. Come find us, and we'll help you!

★ Train-the-Trainers 2 (2013)

Don't Forget our Other Resources!

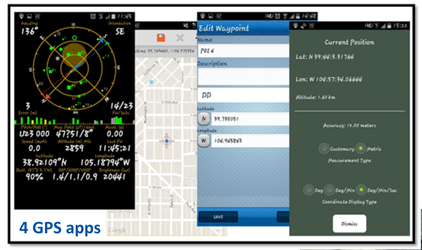
The **Georeferencing Wiki:** http://www.idigbio.org/wiki/index.php/Georeferencing
Find all sorts of useful information and links to some of our favorite tools!
And **please add yours**!



GPS? Of course *there's an app for that*, but how good are they?

The GWG decided this year to compare the accuracy and precision of multiple GPS phone apps to standard, standalone GPS units. Four free GPS applications available for both Android and Apple platforms were tested by GWG members around the country.

1) **GPS Status** (available at http://eclipsim.com/gpsstatus/)
2) **Trimble Outdoor Navigator** (available at http://www.trimbleoutdoors.com/)
3) **Wolf-GIS** (available at http://wolfgis.com/)
4) **Free GPS** (available at http://www.codeburners.com/codeburners/freepgs/index.html)



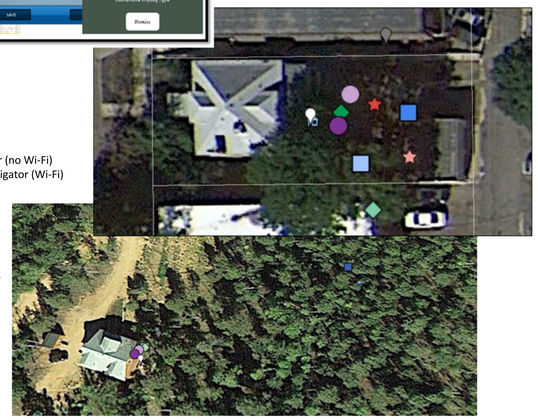
Mike Yost (of the Denver Botanic Gardens) has written an excellent blog post about this question.

Excerpts from his post here.

Legend for satellite images (right):

Gray Waypoint = Hand-held GPS Unit
White Waypoint = Physical Location
Purple Circle = GPS Status (no Wi-Fi)
Light Purple Circle = GPS Status (Wi-Fi)
Blue Square = Trimble Outdoor Navigator (no Wi-Fi)
Light Blue Square = Trimble Outdoor Navigator (Wi-Fi)
Red Star = Wolf GIS (no Wi-Fi)
Light Red Star = Wolf GIS (Wi-Fi)
Green Diamond = Free GPS (no Wi-Fi)
Light Green Diamond = Free GPS (Wi-Fi)

1st sat image is a house in Denver, CO.
2nd sat image is a house near Divide, CO.



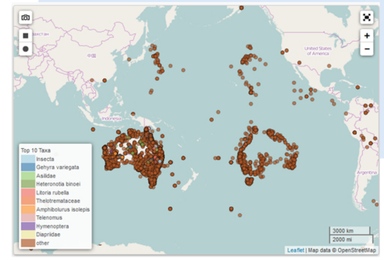
GPS Status was the most accurate and easiest to use of the 4 apps. *It even performed better than the 2002 Magellan GPS unit that Mike used for comparison*. GPS Status was the most accurate in four of the five locations he sampled. Free GPS was the least accurate at four of the five locations. Downsides? Mike notes that GPS Status lacks a map and you can't save waypoints.

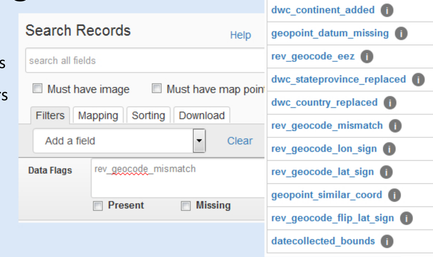
The full post can (and should) be read and enjoyed here:
http://tinyurl.com/GWGmikeyostGPSapps

iDigBio Data Quality (DQ) Flags enhance Georeferencing Workflows!

iDigBio DQ flags making it easier to spot and fix georeferencing issues.
Great for researchers, great for data providers

See https://www.idigbio.org/portal/publishers





A Locality Service?

What is it? It can speed up georeferencing!
Ask us about it. Let's reduce re-georeferencing.

iDigBio is a collaboration between FSU and University of Florida. Larry Page (UF) is lead PI. This material is based upon work supported by the National Science Foundation under Grant No. 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.

Poster compiled by Jessica Utrup, Yale Peabody Museum; edited by Deb Paul, iDigBio. Content by all members of the iDigBio GWG, the ADBC TCNS and the worldwide collections community.