Using HerpMapper

Mike Pingleton

We'll Cover….

- Overview of how HerpMapper works
- Setting up an account, downloading the app
- Using the mobile app
- Using the browser interface

HerpMapper

HerpMapper Mission:

Assist in the conservation and understanding of the world's herpetofauna by collecting and sharing data

How Does It Work?

- Observational data is collected in the field, using mobile device app, browser

- Records are created from the data and are stored in the HerpMapper database

- Research and conservation organizations access the records in the database

What Does It Cost?

- No costs to contributors or data partners

- Volunteer-driven by committed IT developers, admins, curators, advisors, and others

- Operating costs covered by grants and donations

- HerpMapper in the process of becoming a 501(c)(3) nonprofit organization

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Structure and Workflow:
The Front End

- Data collection by the general public, field herpers, students, data partners

- One record per herp

- Citizen Science – Users agree up front to release all collected data

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Structure and Workflow:
The Back End

- Data Partners
- Accredited organizations doing research, education, conservation, etc.
- State herp atlases
- Partners can access data within the scope of their project
- 41 partners to date

Structure and Workflow:
The Middle

- Secure database and servers

- Middleware – account creation, user profiles, tools for data collection, curation, partner export

- Documentation – FAQs and how-tos

- People – developers, curators, advisors, media relations

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Data Collection

- Records can be added:
  - Via the mobile app for Android, IOS and Windows devices
  - Via browser at www.herpmapper.org
- Records require:
  - The common or scientific name of the herp (if known)
  - Geographic coordinates
  - One or more voucher photos (and/or audio file)
- HerpMapper automagically extracts some data:
  - Date, time & GPS from embedded EXIF data in digital photos
  - Using the pinpointed locality, HM determines country /state / region / municipality

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Security

- HM users can only see details of the records they enter
- General public only sees basic information and photos – all specific locality data is blocked from view
- Images viewed by general public have EXIF data stripped
- Every database has administrators – HM admins have super user privileges, but not for the purpose of viewing records
- Data partners only have access to the subset of records defined by the scope of their project
- Partners can ask to have certain types of records completely hidden from view
- No partners have access to all records

HerpMapper

Getting Started

1. Create an account at www.herpmapper.org

2. Get the mobile app (iOS, Android, Windows): See www.herpmapper.org/mobile/mapper for instructions

Get the mobile app

HerpMapper

Using The Mobile App

- Shoot first! Take a picture of the herp before opening HerpMapper

- Select the image from your camera roll when creating the record

- Your phone's GPS is working even in airplane mode, or when you don't have cellular service

- Upload (sync) to the HM database when convenient (and connected)

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Mobile App Record Creation
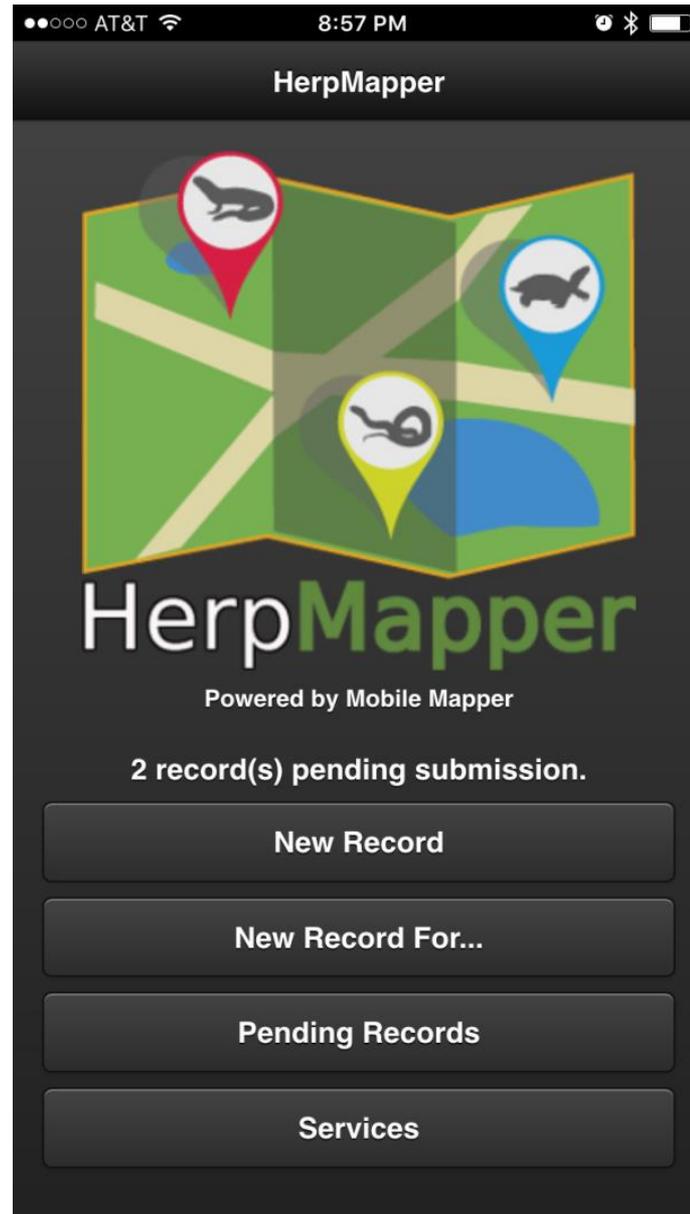
Set Location
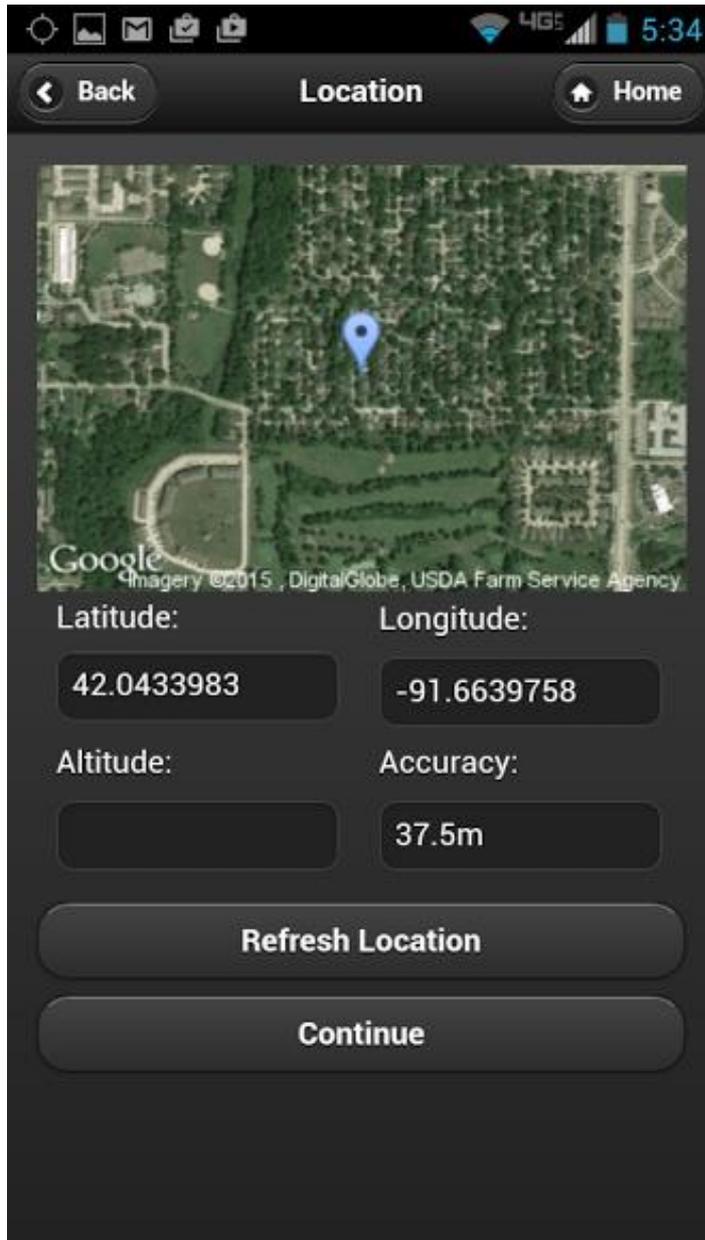
- Map will not appear when data service is not available

- Still displays lat, long, and accuracy fields

Taxon Selection
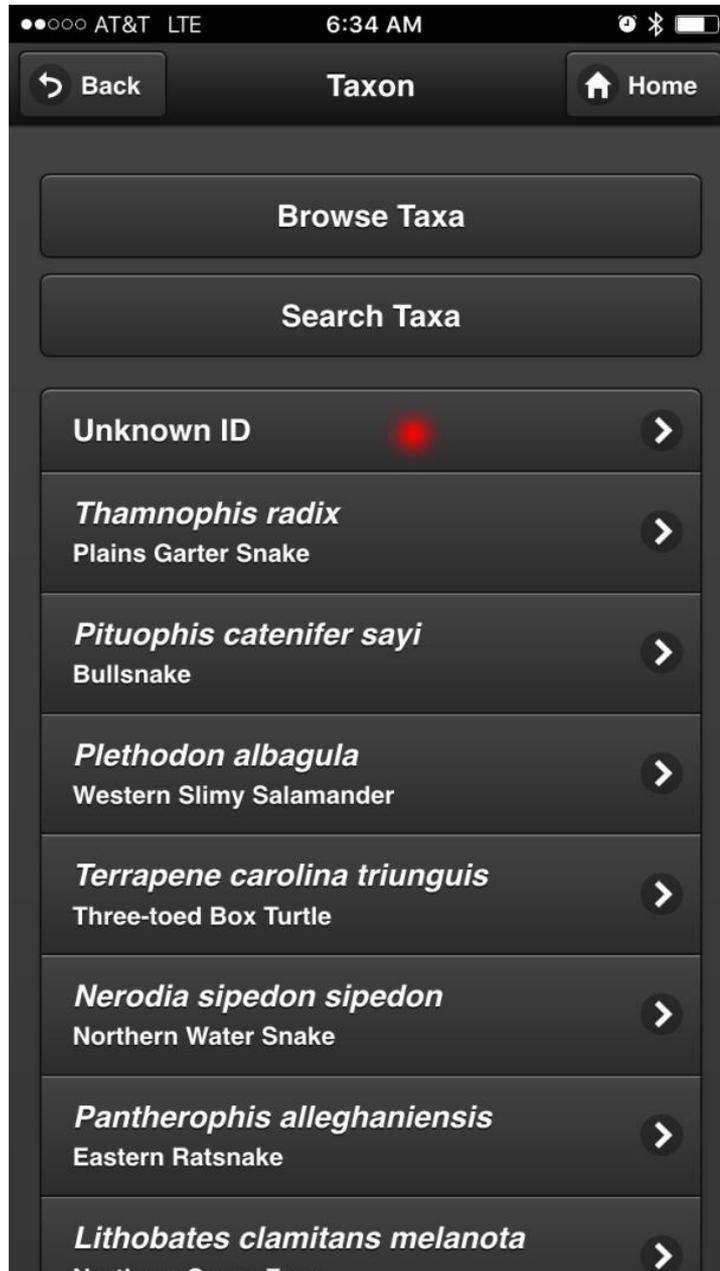
Taxa Search
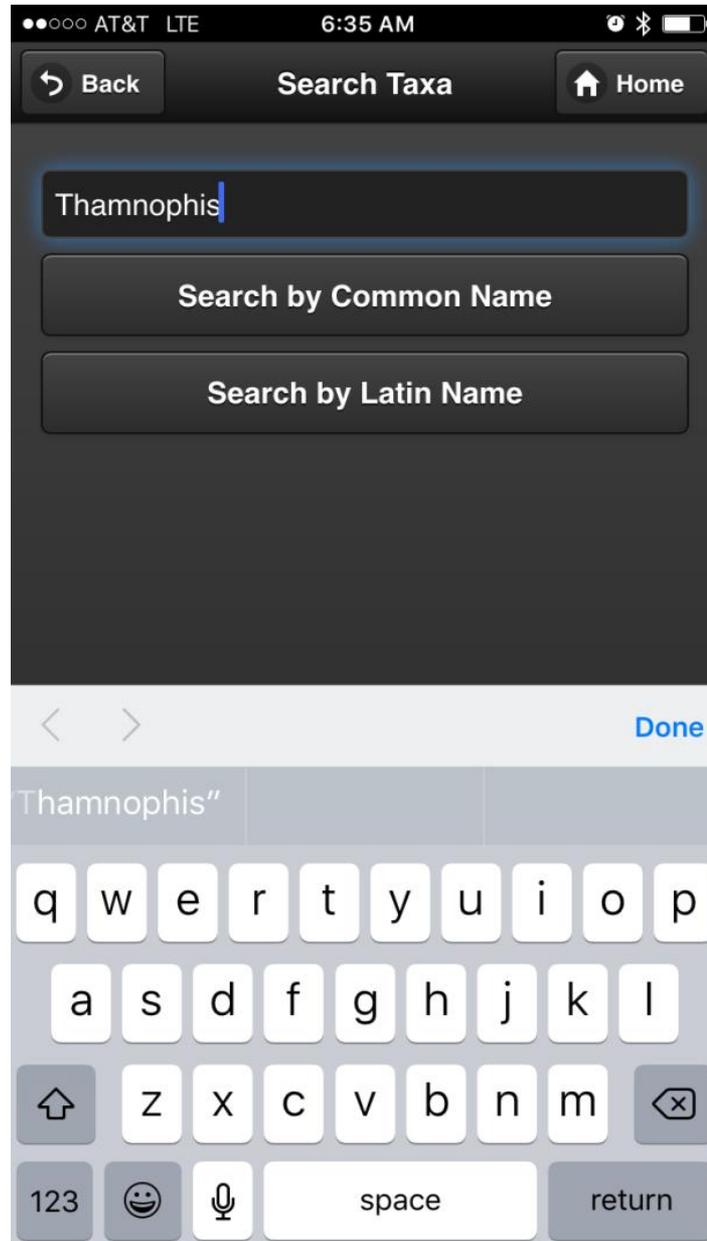
Taxa Search Results
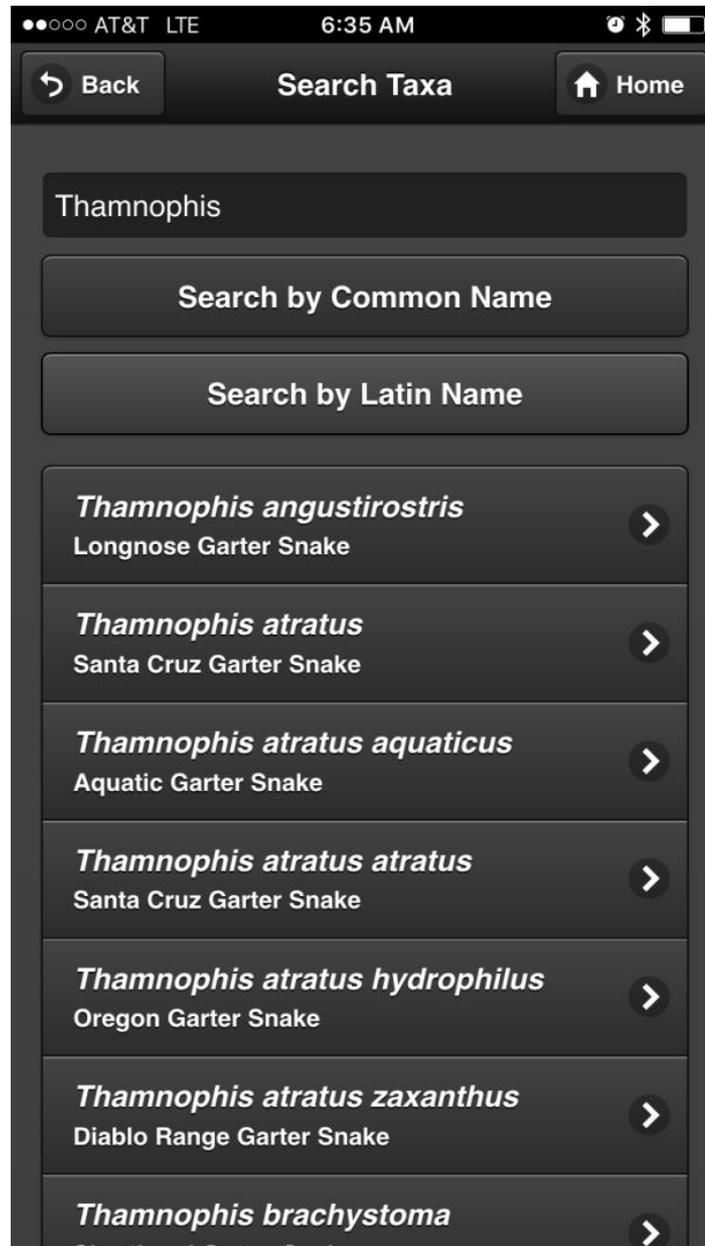
Select or Take Picture
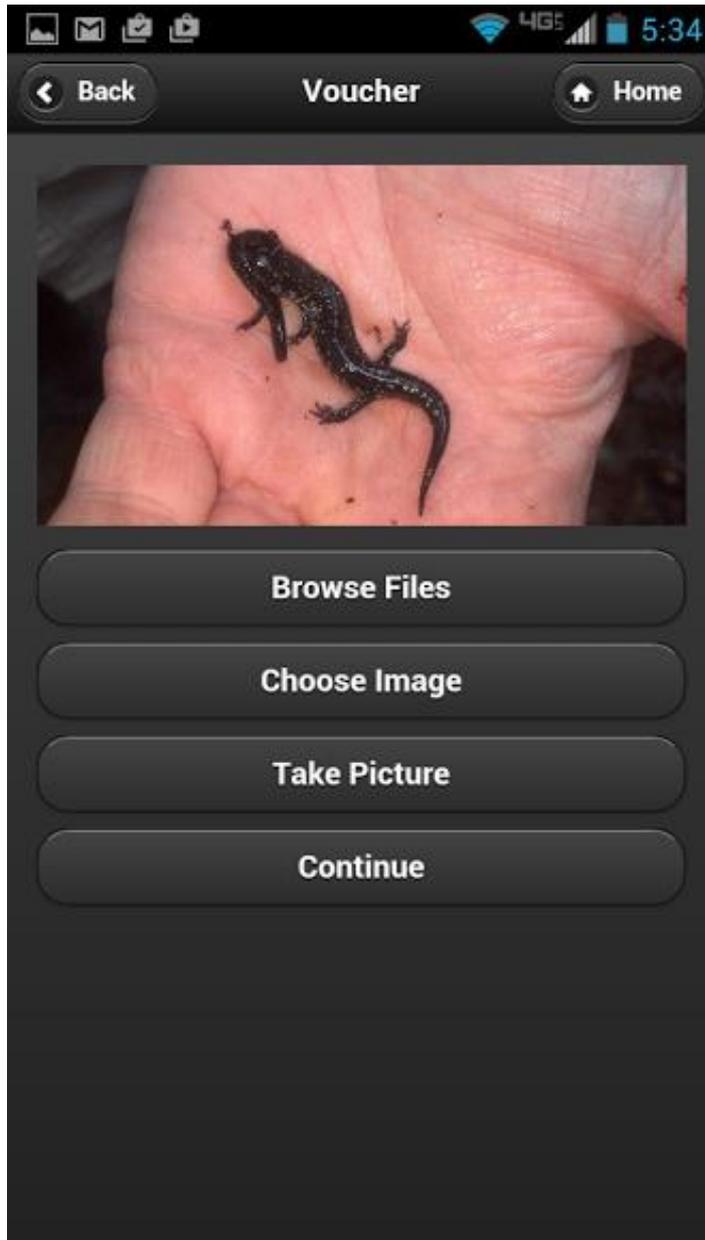
- Audio files can be selected from 'Browse files'
- Audio currently not available with iOS

Add Data

HerpMapper

Ready to Save

HerpMapper

Pending Records

- 'Sync Records' uploads from your phone to the HM database (requires service)
- Pending records can be edited before syncing
- Corrections / additions to records (additional photos, notes, etc.) can also be made via browser

Edit Pending Records

Services

- API key

- Save Settings – uploads latest version, taxonomy updates, etc.

Using The Browser

My Records

My Profile

Mike Pingleton

I use antlers in all of my decorating.

Contributor since 2013

Badges

Learn more about badges

Observation Metrics

Total Observations	5258
Current Year	392

Most Recent Records
Some records may be hidden from the public

Tokay Gecko
Gekko gecko gecko
HM 146591

Boie's Wart Frog
Fejervarya limnocharis
HM 146589

Variable Agama
Calotes versicolor
HM 146588

Long-nosed Tree Snake
Ahaetulla nasuta
HM 146587

Long-nosed Tree Snake
Ahaetulla nasuta
HM 146586

Eastern Garter Snake
Thamnophis sirtalis sirtalis
HM 146578

Eastern American Toad
Anaxyrus americanus americanus
HM 146577

Midland Brown Snake
Storeria dekayi wrightorum
HM 146576

Most Recorded Species
Some records may be hidden from the p

Cottonmouth
Agkistrodon piscivo
224 records

Common Garter S
Thamnophis sirtali
127 records

Spring Peeper
Pseudacris crucife
100 records

Slider
Trachemys scripta
93 records

Ringneck Snake
Diadophis punctatu
90 records

Racer
Coluber constricto
84 records

Southern Leopar
Lithobates spheno
81 records

Gopher Snake
Pituophis catenifer
80 records

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Uploading Files

Creating New Records

Top Portion of a Record

My Account / My Records / HM 145697

Observer:	Country:	Province:	District:
Pingleton, Mike	Thailand	Bangkok Metropolis	Sathorn

Species:
Trachemys scripta elegans

Date: 2016-02-20

Time: 01:17:34

Latitude: 13.728749

Longitude: 100.542913

Altitude: -3492.00

Accuracy: meters

Datum: WGS84

Coord. Source: GPS

Age: Adult

Deceased: no

☐ Hide this record from the public.

You can find the latitude and longitude of a location by clicking on the map below.

Map Satellite

Google   Imagery ©2016, CNES / Astrium, C

HerpMapper
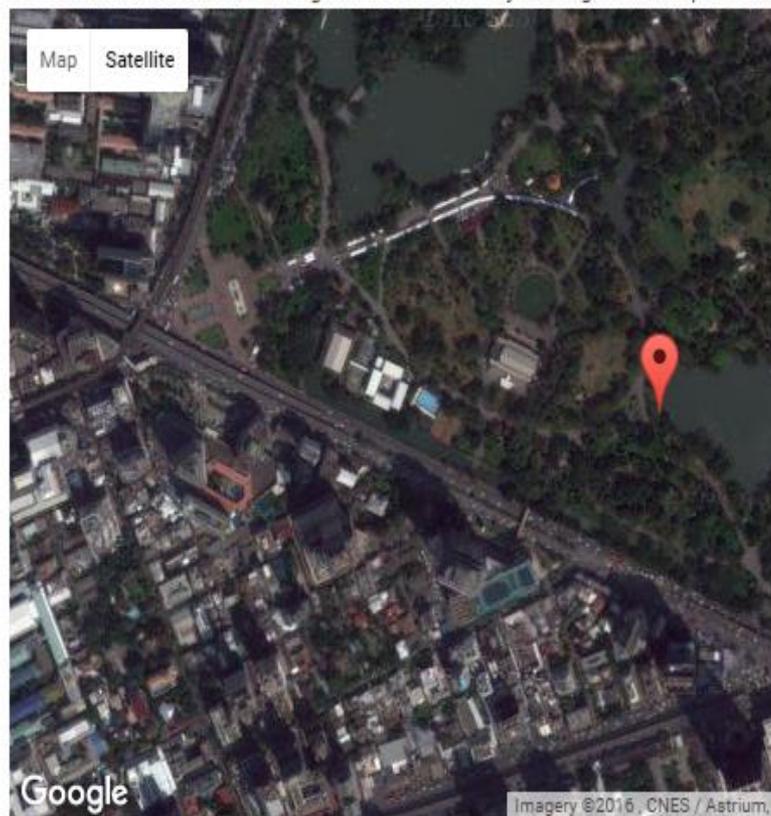
Bottom Portion

Additional Notes

These notes are viewable by the public. Do not put location information in these notes. If you need to describe a location, please put it in the private notes.

> Lumphini Park.

Private Notes

These notes are only viewable to you and HerpMapp
these notes.

Vouchers

*Vouchers should be images or audio files of the actual animal observed (not photos from other observations or Google Images). Quality voucher files are impor
conservation and research organizations that use HerpMapper data.*

| Save Record | Copy Time and Location | ⚑ Flag for Review or Deletion |

HerpMapper Fringe Benefits

- Portal to the world's herpetofauna

- See what others are seeing

Practice Records

- Create test records via phone, browser
- Flag record for deletion when finished
- Admins will delete

HerpMapper

www.herpmapper.org

- Sign up
- Record creation
- FAQs
- Instructions for mobile apps
- Species lists, Partner and project lists
- Record catalog, newest on top
- User profiles
- Social Media:
  - Like us on FaceBook
  - Follow @HerpMapper on Twitter
- Email us – info@herpmapper.org

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