

hi! I'm cassi saari (@bouteloua)

- Ecological restoration practitioner - design and monitor habitat restoration projects in Chicagoland region
- Volunteer curator on iNaturalist, president of NE Chapter Illinois Native Plant Society
- Plant-obsessed! Love to hike and botanize







Patrick McCrea (@mccrea)



Wildlife Ecologist for DeKalb County Forest Preserve District

Restores and creates wildlife habitat



Monitors wildlife species within the preserves and throughout the county



iNaturalist

Started in 2008 (master's project)



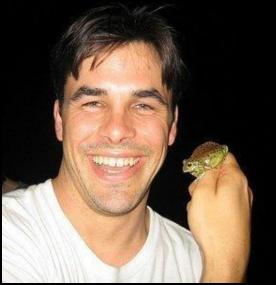


iNat is completely free and open source:

- github.com/inaturalist
- api.inaturalist.org



Ken-ichi Ueda @kueda



Scott Loarie
@loarie





iNaturalist is an online social network of people sharing biodiversity information to help each other learn about nature

iNaturalist is a crowdsourced species identification system and an organism occurrence recording tool





iNaturalist is an app and website for nature nerds



Why do I use iNaturalist?

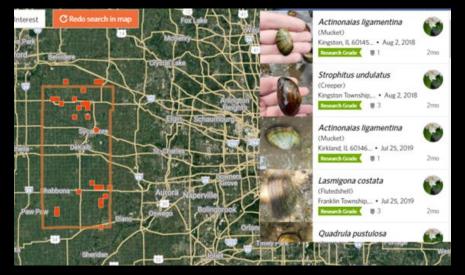
- Get help with identification
- Nature journal
- Learn more about species
- Help others identify
- Volunteer
- Awesome while traveling
- Look for fun places to explore
- Use data for my work
- Contribute to global database / community science





Why does DeKalb County use iNaturalist?

- General species inventory
- Locating rare species
- Locating remnant species
- Collecting seed
- Species distribution
- Areas of interest (nesting sites, ephemeral pools)
- Tracking invasive species
- Get people involved and identifying species
- Connect with nature and build a community that cares

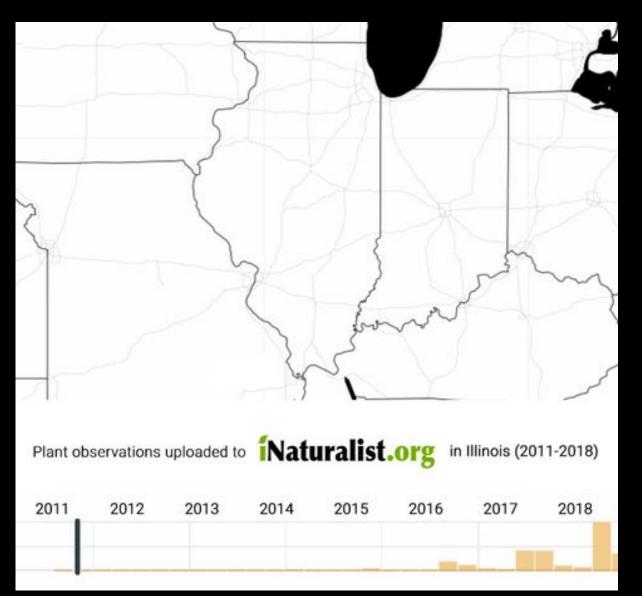


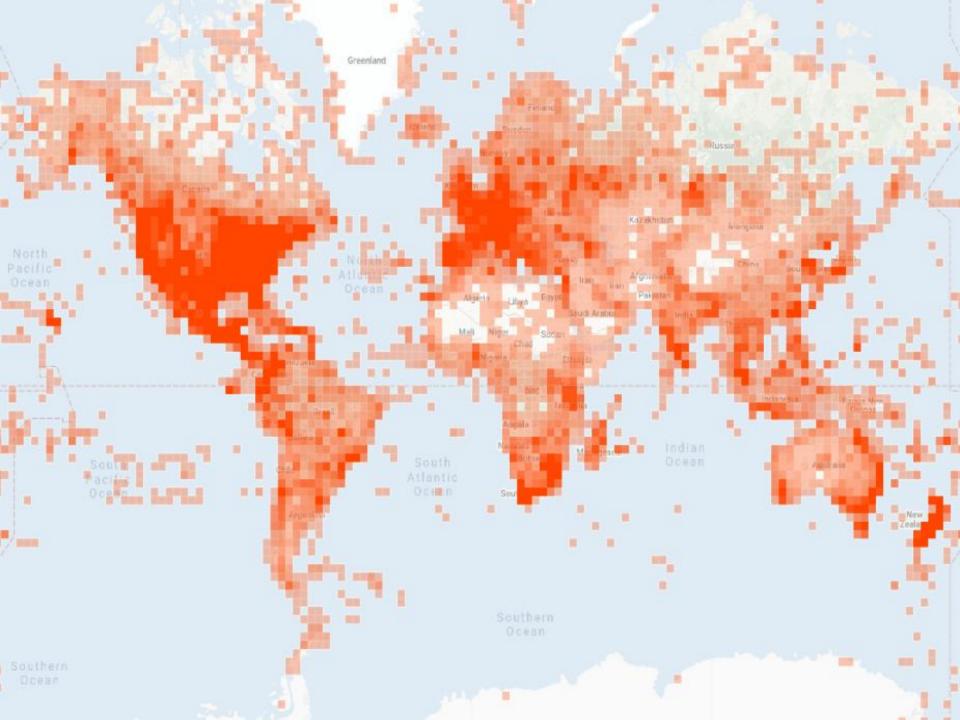


Do you or your organization use iNaturalist?



iNat is growing fast



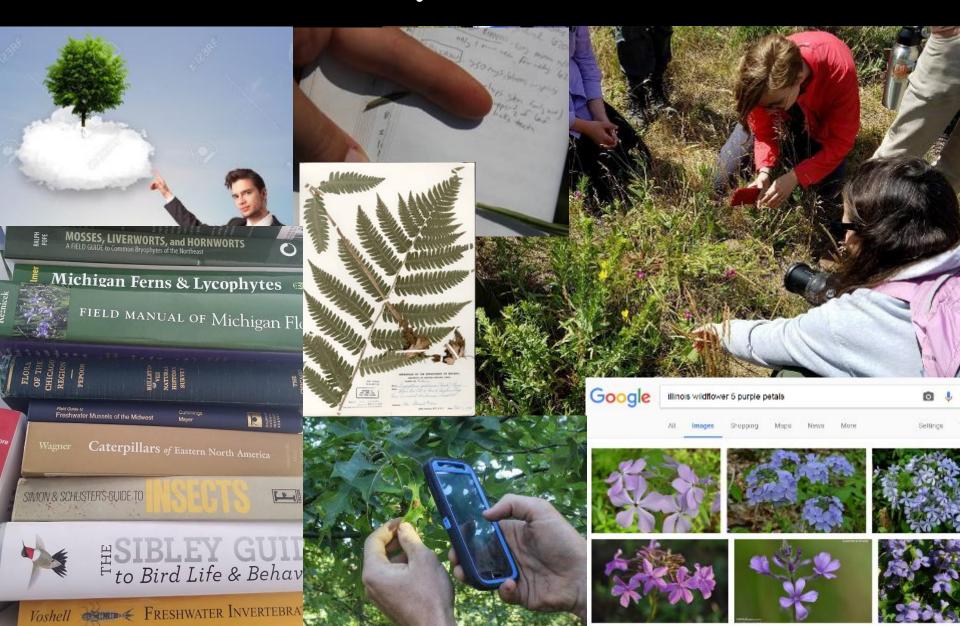


Plant Literacy





Ways to Learn



Learning on iNaturalist

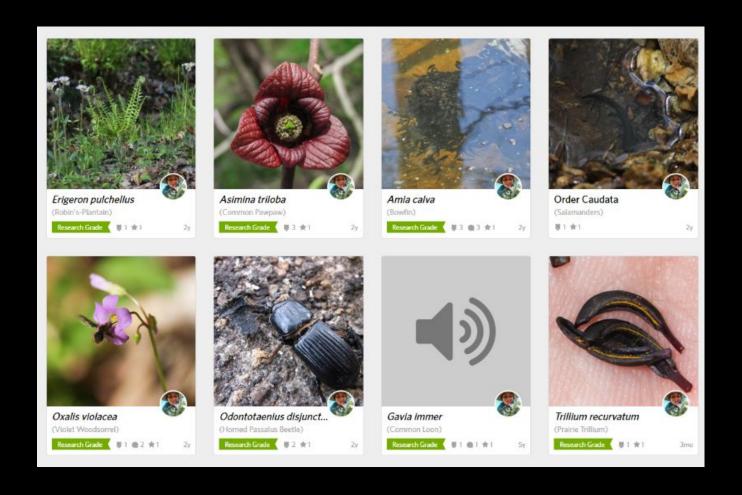
- Community of expert amateurs and professionals
- Automated species identification / "computer vision"
- Record your notes on ID
- Nature journal time/place/with who/associate species
- Database of "verified" images to compare
- At different stages of life not just "picturebook ready"





Blake Bringhurst

An **observation** records an encounter with an **individual organism** at a particular **time** and **location**.

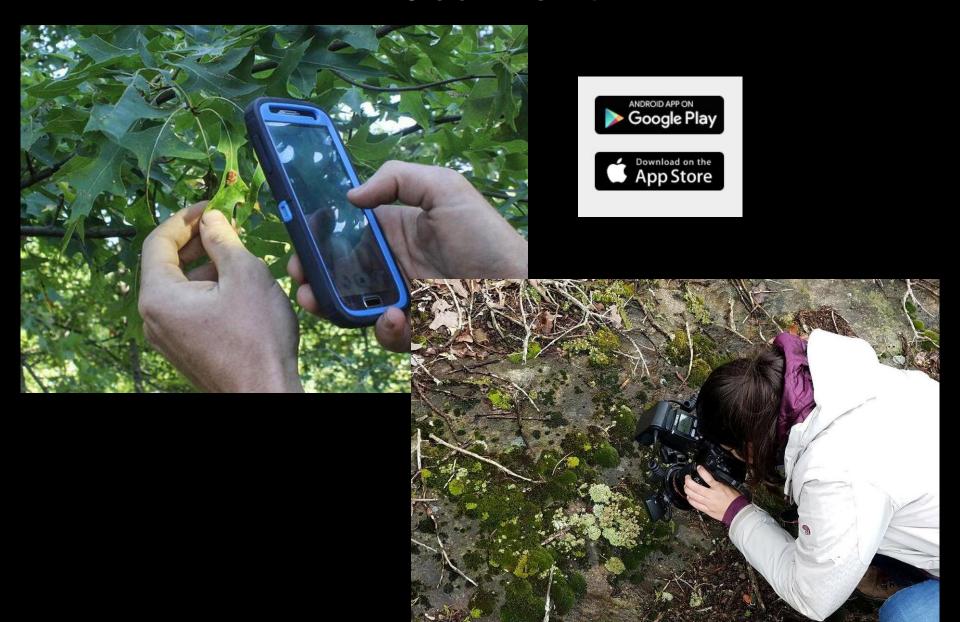




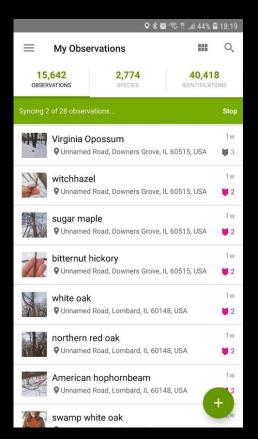
Explore



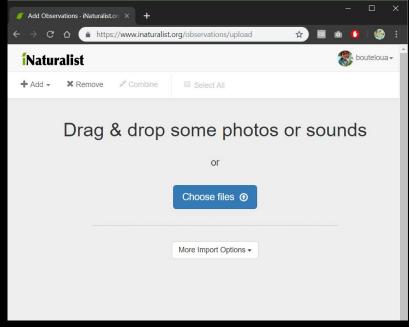
Document



Share



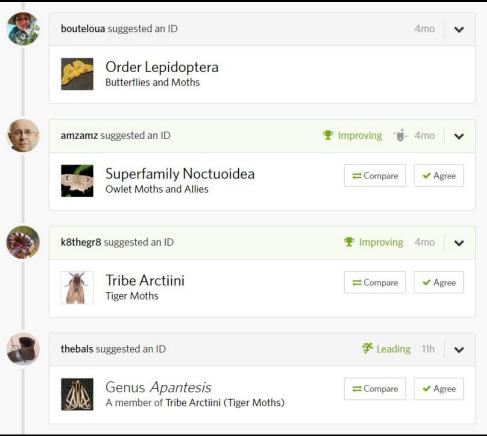




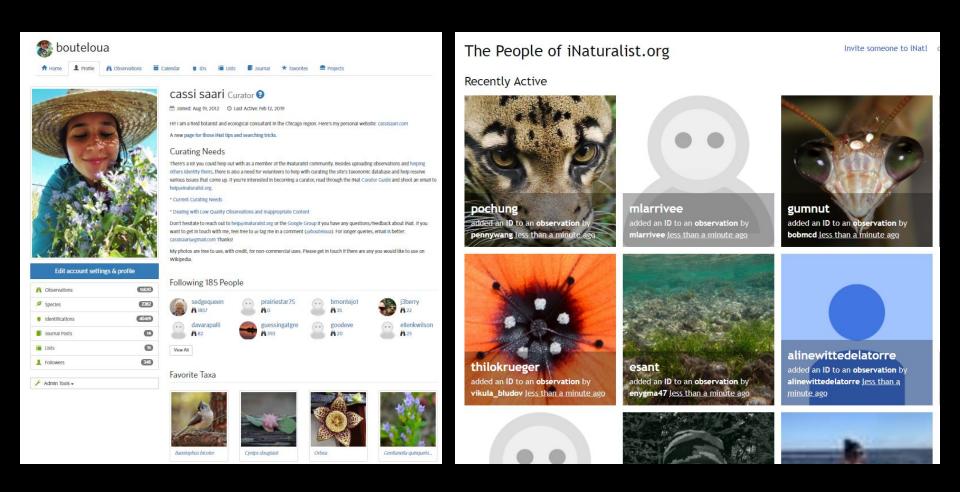
Identify

- Anyone can add an identification to an observation
- Refining process don't have to know which species
- "Community ID" system can opt out if needed
- Casual Grade, Needs ID, Research Grade (community verified)



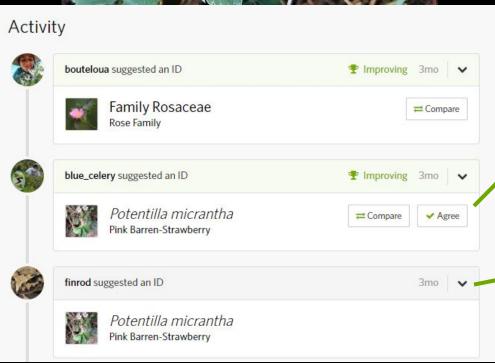


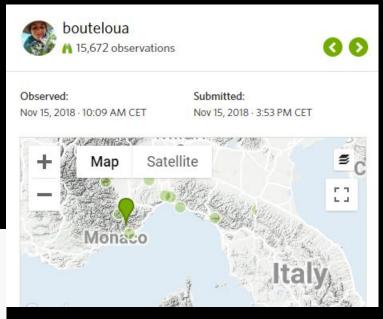
Community



Identify



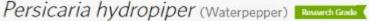




Botanist at the Museum of Natural History of the Mediterranean of Livorno, Italy

Scientist with the Roman Society of Natural Sciences

Discuss











bouteloua suggested an ID





Hi Cassi,

Genus Persicaria

@danielatha do you have tips for non-flowering Persicaria punctata/hydropiper/robustior?



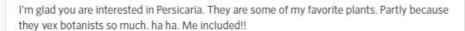
danielatha suggested an ID





Compare





These are three with peppery tasting leaves. Here are some tips for individual species.

Persicaria hydropiper - Annual; stems red, usually un-branched; swollen nodes; ocreae with axillary shoots and often cleistogamous flowers; leaves peppery tasting. This species is said to be non-native in North America, but I believe it is native.

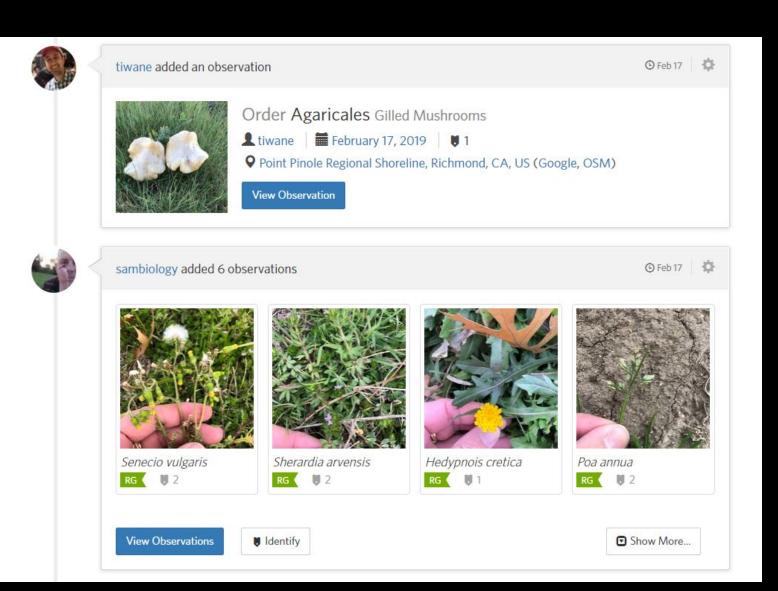
Persicaria punctata - Annual; stems green, usually branched; nodes barely swollen; ocreae with or without axillary shoots, but lower ocreae without cleistogamous flowers; leaves peppery tasting.

Persicaria robustior - Perennial; otherwise like Persicaria punctata, but with long, submerged rhizomes; larger leaves and more crowded inflorescences. Leaves super peppery tasting-- so hot it burns way more than the other two. I have only ever seen it in standing water of

Community

íNatForum			Q.	
Annotations that do not fit General		22	252	1d
Common birds being newly set to "obscured" recently Curators	6 6 8 6	12	234	1d
"Introduced" icon - change the (!) to an (i) Feature Requests 1 vote	▼ ₽ 9 8 0	36	250	16h
Rare, interesting and unusual arthropods in South Australia Nature Talk	0 @ B 6	10	205	4d
Northern Red-tailed Hawk – Comments and Opinions Nature Talk	S & S & S	15	293	5d
Would it be appropriate to post observations of dead "pests" in traps? General	S @ P & *	20	190	11h
Rename Location "Accuracy" circle to "Precision" circle Feature Requests 10 votes	3000	12	192	24
Sharing observations with a link General		9	209	
How to use Dronefly, a Discord chat bot ■ Tutorials	⑤ ⑥ ❖	5	168	latural

Dashboard (News Feed)



My Life List





2,839

1,205
IDENTIFIERS





71 observations CC
White Oak



Common Racc...
(Procyon lotor)



White-tailed ... (Odocoileus virginia...



Small White L...
(Allium tricoccum)



Mayapple (Podophyllum peltat...



Northern Red ... (Quercus rubra)



Prairie Trillium (Trillium recurvatum)



Virginia Sprin... (Claytonia virginica)



Eastern Skunk ...
(Symplocarpus foeti...



Wild Geranium (Geranium maculatu...



Bur Oak (Quercus macrocarpa.



Compass Plant (Silphium laciniatum



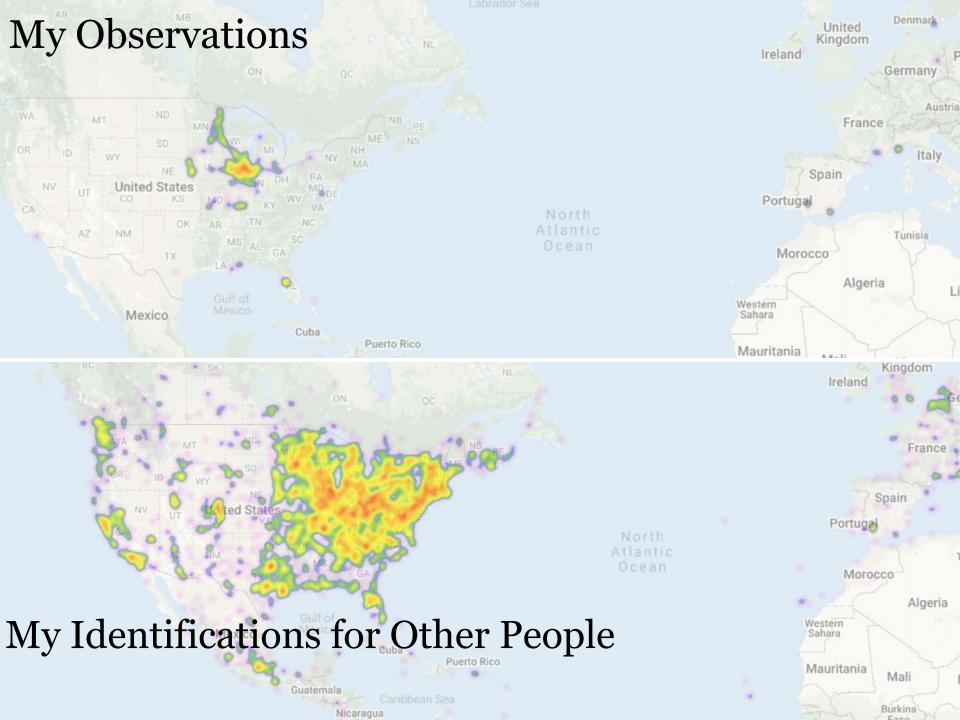
Common Buck...
(Rhamnus cathartica



Big Bluestem (Andropogon gerardii...



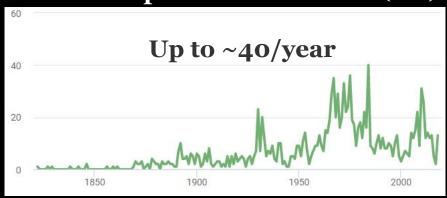
Cut-leaved To...
(Cardamine concate...



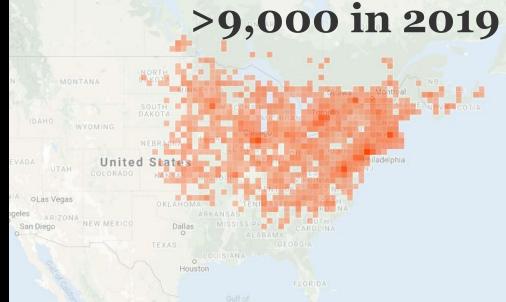
Common milkweed (Asclepias syriaca)



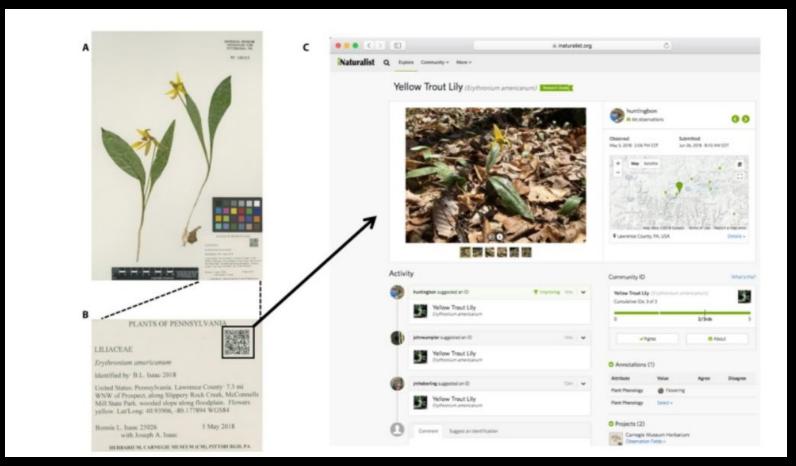
Preserved specimens since 1822 (GBIF):



Observations on iNaturalist:

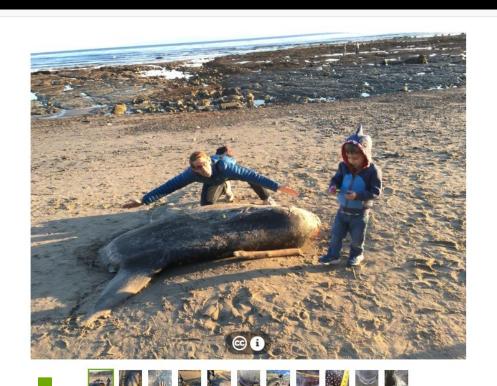


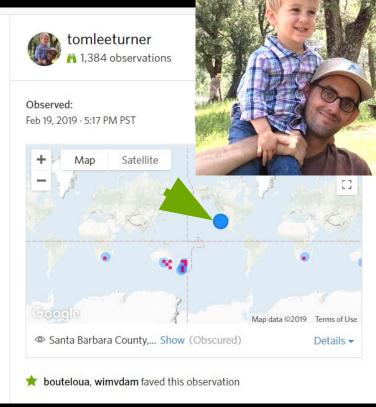
In conjunction with specimens



Heberline & Isaac 2018 "iNaturalist as a tool to expand the research value of museum specimens"

Range expansions





Ralph Foster, Ichthyology Section, South Australian Museum



Mola tecta
Hoodwinker Sunfish

I'm going out on a limb... @mnyegaard your input required here



Range expansions





Marianne Nyegaard, PhD student studying mola in Australia

18h

HOLY MOLA!!!! @tomleturner you are a superstar and @rfoster I am sooo excited to join you out on your brave and well-picked hoodwinker limb!!!! OMG!!!! And ps, for the record, the scales are text-book Mola tecta so pls ignore my previous comments!!

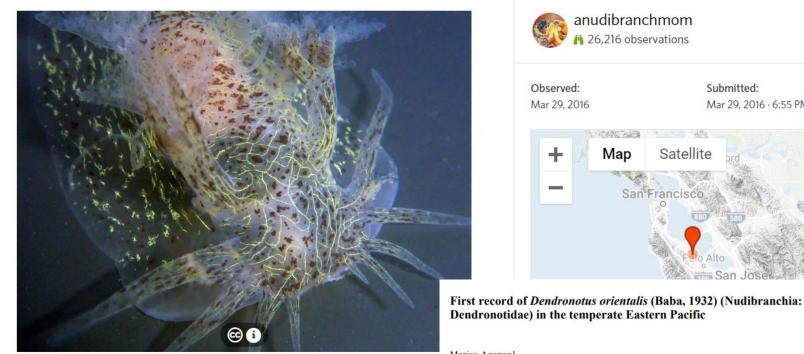
Since this is such an incredible find - Mola tecta well out of its expected range - here are the characteristics that clearly and without any doubt reveal the species identity. The images here are excellent and very clearly show the telltale clavus band back-fold of Mola tecta, as well as the rounded scales (denticles) set further apart than for Mola mola. The body shape is typical for the species with the widest point across the eyes, and without the long, bulging lateral "keels" on the body typical of similar sized Mola alexandrini and Mola mola; instead-the dorso-lateral keel (="eye brow") is very short. In addition Thomas Turner examined the clavus directly and reported 3, maybe 4, ossicles on the dorsal side of the back-fold and 2 on the ventral side, but noted that there was some damage on the ventral side of the clavus margin where the next couple of ossicles would have been expected to be. This low number of ossicles for such a large fish is a key characteristic for this species.

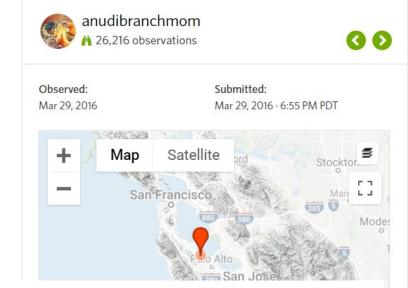
Range expansions











Marisa Agarwal

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E-mail: marisaagarwal@gmail.com

Received: 5 August 2016 / Accepted: 10 January 2017 / Published online: 7 February 2017

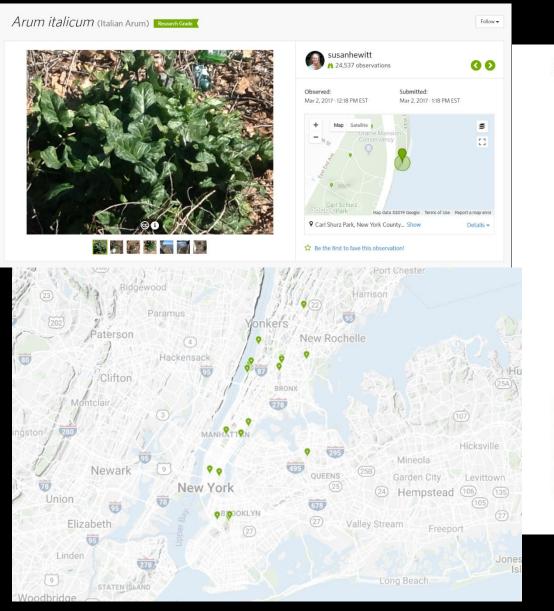
Handling editor: Fabio Crocetta

Abstract

This study reports the first record of the Indo-West Pacific nudibranch Dendronotus orientalis (Baba, 1932) in the Northeastern Pacific Ocean. A reproducing population was discovered in fouling communities on floating docks in South San Francisco Bay, California, in March 2016. Dendronotus orientalis joins a large number of introduced marine invertebrates that have taken up residence in San Francisco Bay.

Key words: introduced, nudibranch, San Francisco Bay, citizen science

New invasive species



Atha, D., B. Boom, A. Thombrough, J. Kurtz, L. McIntyre, M. Hagen, J.A. Schuler, L. Rohleder, S.J. Hewitt, and J. Kelly. 2017. Arum stalksum (Araceae) is invasive in New York. Phytoneuron 2017-31: 1–18. Published 28 April 2017. ISSN 2153-733X.

ARUM ITALICUM (ARACEAE) IS INVASIVE IN NEW YORK

DANIEL ATHA, BRIAN BOOM

Center for Conservation Strategy New York Botanical Garden 2900 Southern Blvd. Bronx, New York 10458 datha@nybg.org

ADAM THORNBROUGH, JOSEPH KURTZ, LESLIE MCINTYRE

Forestry, Horticulture, & Natural Resources New York City Department of Parks and Recreation Baby Queensbridge Park 10th Street & Queens Plaza South Long Island City, New York 11101

MICHAEL HAGEN, JESSICA A. SCHULER

Horticulture New York Botanical Garden 2900 Southern Blvd. Bronx, New York 10458

LINDA ROHLEDER

Lower Hudson Partnership for Regional Invasive Species Management New York New Jersey Trail Conference 600 Ramapo Valley Road Mahwah, New Jersey 07430

SUSAN J. HEWITT

Citizen Scientist, malacologist and iNaturalist observer 435 East 77th Street, Apt 3G New York, New York 10075

JOHN KELLY

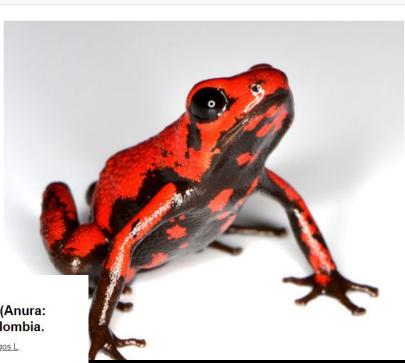
Landscape Coordinator
Northern Manhattan Parks
New York City Department of Parks and Recreation

ABSTRAC

Spontaneous populations of Arum italicium (Italian Lords and Ladies) are documented from Bronx and New York counties in southeastern New York state. Three populations are documented from New York Co. (Manhattan): Inwood Hill Park with dozens of discrete clusters in an area of 2500 square meters of mostly spontaneous deciduous forest; Fort Tryon Park with dozens of discrete clusters in an area of 20,000 square meters of cultivated garden beds; and the Upper East Side of Manhattan, near Carl Schurz Park and the FDR Drive, with four discrete clusters in an area of about 6 of square meters of open, highly disturbed, currently fallow ground. The Bronx Co. population, in the New York Botanical Garden, consists of two discrete clusters in an area of about 6 square meters of mostly native, deciduous forest. Each cluster consists of a few to dozens of plants. The Inwood, Fort Tryon, and NYBG populations are documented with herbarium specimens and DNA samples and the Carl Schurz population is documented by photographs in iNaturalist. Original observations on invasiveness, toxicity, control, management, and native alternatives are presented. The New York reports are new state records for the species. This report is an example of the developing and highly collaborative process of Early Detection and Rapid Response (EDRR) to invasive species, involving many individuals, both professional and private, contributing key elements in a short period of time.

Totally new species

Andinobates cassidyhornae Research Grade



Zootaxa, 2013;3620;163-78.

A new species of Andean poison frog, Andinobates (Anura: Dendrobatidae), from the northwestern Andes of Colombia.

Amézguita A¹, Márquez R, Medina R, Mejía-Vargas D, Kahn TR, Suárez G, Mazariegos L.

Author information

Abstract

The poison frogs of the Colombian Andes, Pacific lowlands and Panama have been recently recognized as a new, monophyletic and well-supported genus: Andinobates. The species richness and distribution within Andinobates remain poorly understood due to the paucity of geographic, genetic and phenotypic data. Here we use a combination of molecular, bioacoustic and morphometric evidence to describe a new species of Andean poison frog: Andinobates cassidyhornae sp. nov. from the high elevation cloud forests of the Colombian Cordillera Occidental, in the northwestern Andes. The new species is associated to the bombetes group and characterized by a unique combination of ventral and dorsal color patterns. Data on 1119 bp from two mitochondrial markers allowed us to reject the null hypotheses that A. cassidyhornae sp. nov. is part of the phenotypically similar and

New species

Scorpiurus aramoana 💿 Needs ID









Scorpiurus aramoana (Diptera: Dolichopodidae), a new species from New

steve kerr

Observed:

Dec 18, 2015

4,977 observations

Map

Submitted:

Zealand

Satellite

Dec 19, 2015 · 1:03 PM NZDT

gle Terms of Use Details -

DANIEL J. BICKEL, DOUGLAS STEVEN KERR

Abstract

The New Zealand endemic genus Scorpiurus Parent is known from marine littoral habitats. A new species, S. aramoana sp. nov., is described from coastal Otago of the South Island. Males have diagnostic flattened and modified tarsomeres on legs I and II. A key is provided to the New Zealand genera of Hydrophorinae and the three described species of Scorpiurus.

Research projects



- *Physcomitrium* mosses
- Rafael Medina at Augustana College
- Find, report, and send samples
- Studying genome duplication in plant evolution



Research



4% shed June 22, 2017 Clear Creek County, CO



17% shed June 30, 2016 Glacier NP, MO



4% shed July 11, 2013 Clear Creek County, CO



21% shed July 15, 2013 Glacier NP, MO



20% shed July 19, 2014 Columbia-Shuswap, B.C.



81% shed July 30, 2010 Glacier NP, MO



85% shed August 4, 2016 Mt. Timpanogos, UT



21% shed August 5, 2015 Summit County, CO



Mountain goats and climate change

Rarely observed behavior



Alligator lizard breeding



Joshua Flatt

David Marx

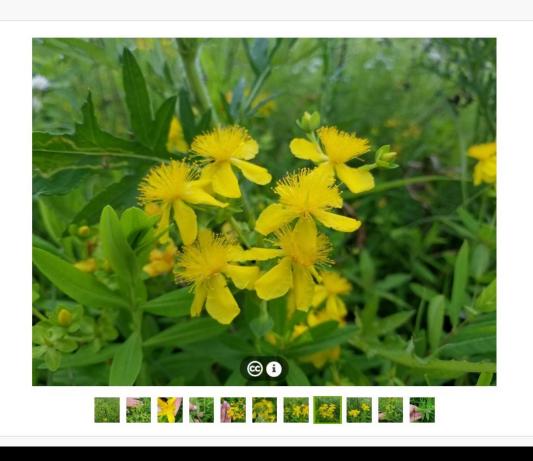
Land management

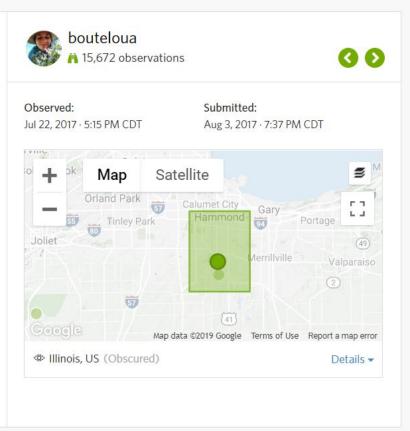


Tracking invasive birdsfoot trefoil at Poplar Creek in Cook County, IL

Monitoring rare populations

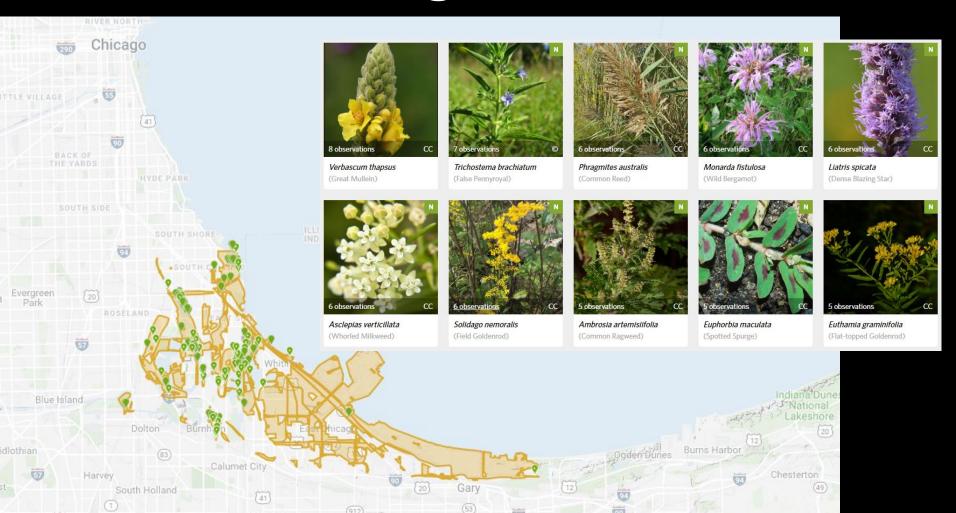
Swink's St. John's Wort (Hypericum swinkianum) NT Research Grade





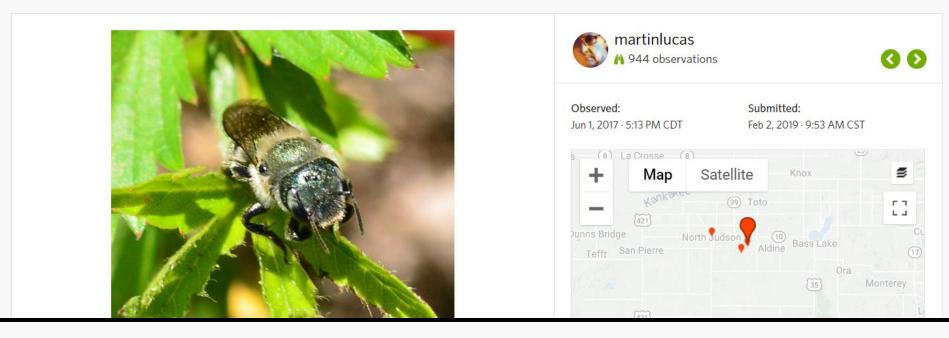
Upload your own place boundaries

Flora of the Cal Slag



Tool for other data collection

Genus Osmia (Mason Bees)



Observation Fields:

Animal behavior: collecting nest material

Name of Associated Plant: Potentilla simplex (Common Cinquefoil)

Download data

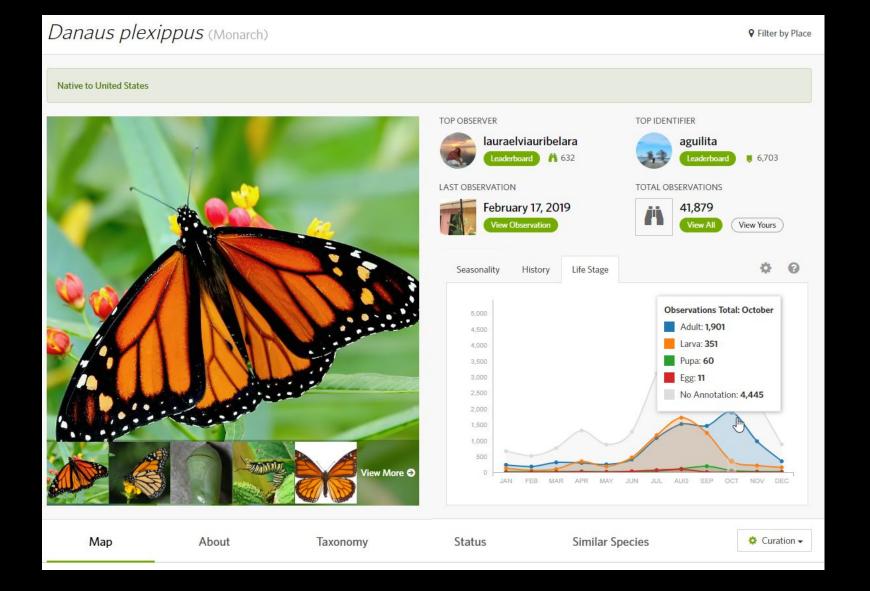
Export Observations

1 Create a Query

Create an observation query just like you would elsewhere on the site. You can also cut and paste an observations URL from another part of the site. You must specify a **taxon**, **place**, **user**, **project**, or **search query**.

Choose query parameters below or paste in an observations URL search all fields * Search @ ■ w/ photos ■ w/ sounds ■ Out of range Quality grade ● Any ● Research ● Needs ID Reviewed ● Any ● Yes ● No Filter Identifications ● any ○ most agree ○ some agree ○ most disagree Captive / Cultivated ● Any ○ Yes ○ No □ 😤 □ 🗱 □ 🐺 □ 💥 □ 🚜 □ 🎉 □ 👸 Select All, None Show only Place Start typing place name... Observed on Day ▼ Month ▼ Year ▼ Taxon Start typing taxon name... Exact Rank Highest Rank Any Lowest Rank Any • User clear Username or User ID Project Project ID or URL slug, e.g. 333 or my-project Taxon IDs Multiple taxon IDs separated by commas, e.g. 123,654 Date Range Max and min dates observed in YYYY-MM-DD format, e.g. 2015-01-17 Created on

Taxon page





Range Maps

Danaus plexippus (monarch)





Taxonomy & Names

Danaus plexippus (monarch)

Taxonomy

- L Kingdom Animalia (Animals)
 - L Phylum Arthropoda (Arthropods)
 - L Subphylum Hexapoda (Hexapods)
 - L Class Insecta (Insects)
 - L Subclass Pterygota (Winged and Once-winged Insects)
 - L, Order Lepidoptera (Butterflies and Moths)
 - L Superfamily Papilionoidea (Butterflies)
 - L. Family Nymphalidae (Brush-footed Butterflies)
 - L Subfamily Danainae (Milkweed Butterflies)
 - L Tribe Danaini
 - L Subtribe Danaina
 - L, Genus Danaus (Tiger Milkweed Butterflies)
 - L, Danaus plexippus (Monarch)
 - L. Danaus plexippus ssp. plexippus
 - L. Danaus plexippus ssp. portoricensis

Names

| Language / Type | Name |
|-----------------------|-------------------|
| Chinese (traditional) | 帝王斑蝶 |
| Danish | Monark |
| Dutch | Monarchvlinder |
| English | Monarch |
| English | Monarch Butterfly |
| English | Wanderer |
| French | Monarque |
| German | Monarchfalter |
| Italiano | Monarca |
| Japanese | オオカバマダラ |
| Portuguese | Borboleta-monarca |



Similar species

Danaus plexippus (monarch)

Other species commonly misidentified as this species



Limenitis archippus Viceroy



Danaus gilippus Queen



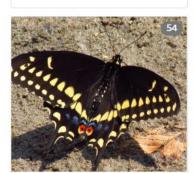
Agraulis vanillae
Gulf Fritillary



Danaus erippus
Southern Monarch



Vanessa cardui Painted Lady



Papilio polyxenes
Black Swallowtail



Vanessa virginiensis American Lady



Papilio glaucus
Eastern Tiger Swa...



Vanessa atalanta Red Admiral

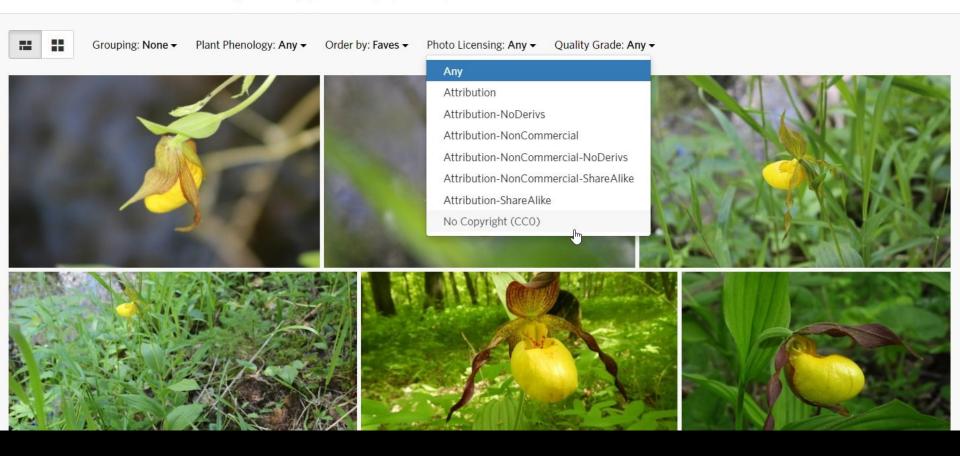


Danaus eresimus Soldier

Photo source (check copyright)

Photos of Yellow Lady's Slipper (Cypripedium parviflorum)

♦ Filter by Place



Photos

Black Swallowtail (Papilio polyxenes) Research Grade





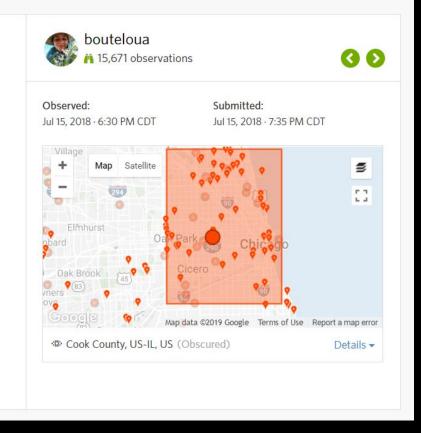




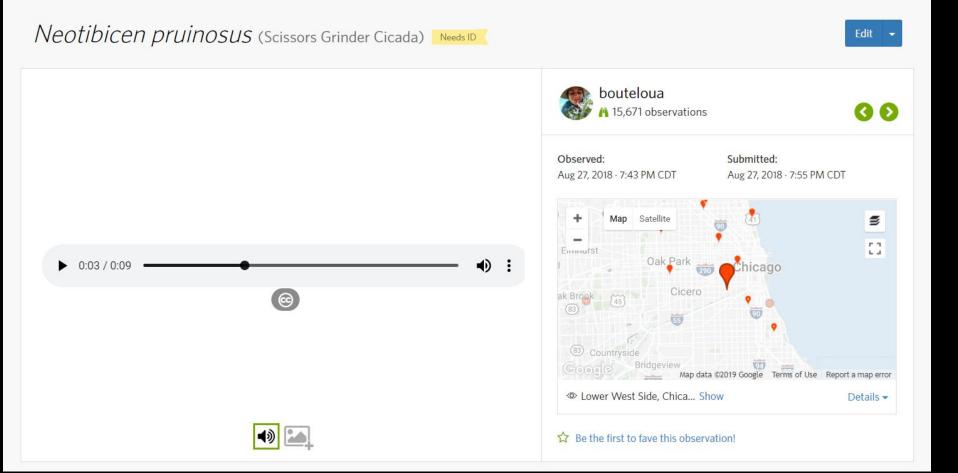








Sounds





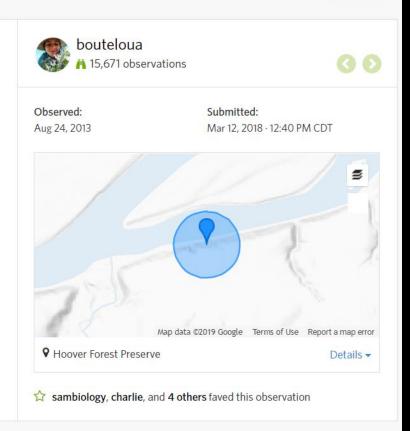
GIFs

Tamias striatus (Eastern Chipmunk) Research Grade









No media at all

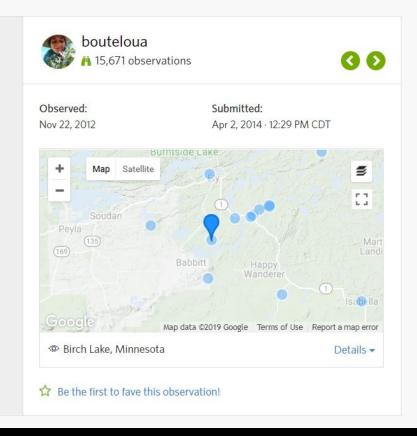
Perisoreus canadensis (Canada Jay) Casual



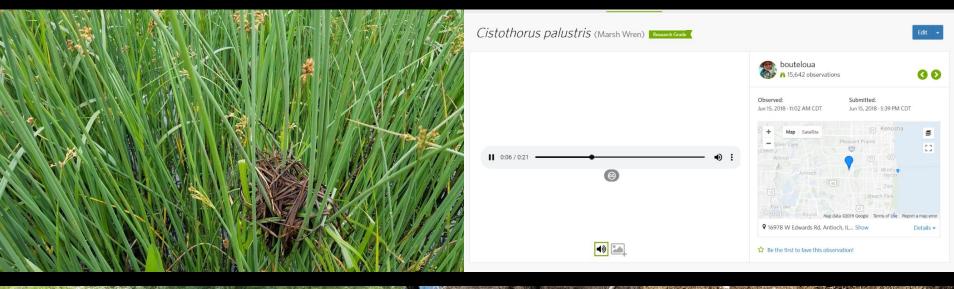






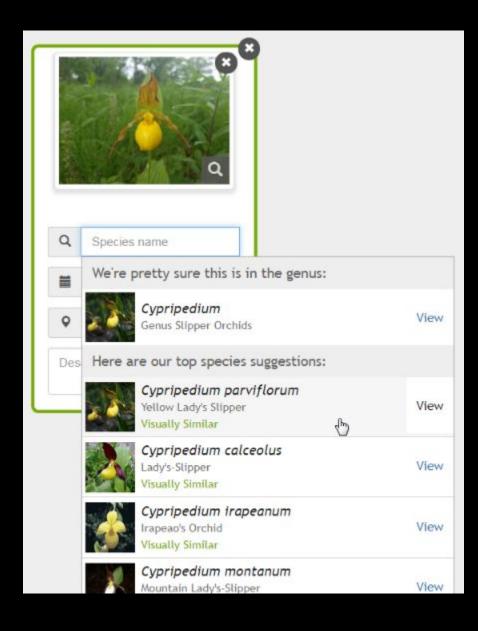


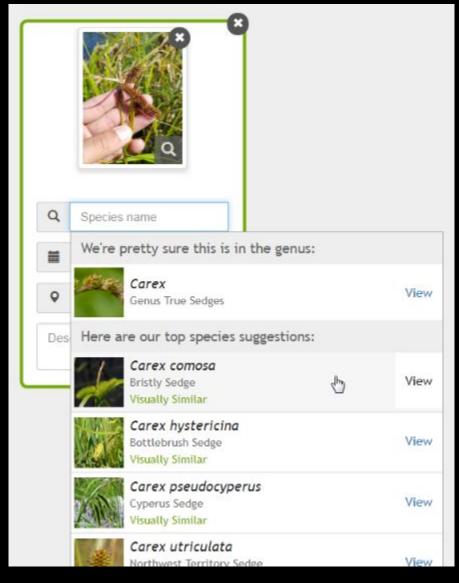
Evidence of organisms





Automated species identification





Taking identifiable photos

- → Use your hands
- → Try different angles/features
- → Scale figure



Identifying Sedges



Habit & Habitat
Clumping or creeping?
Wet or dry?

Reproductive Parts

Plants that are still in flower are often not identifiable to species.





Are the male and female parts on separate spikes or together?



Photograph the individual fruits (perigynia), preferably with something for scale



Carex sartwellii has a blackened stem base



Vegetative Parts

Are any parts of it hairy?
How broad are the leaves?
What color is the base of the stem?
What does the sheath (where the leaf meets the stem) look like?

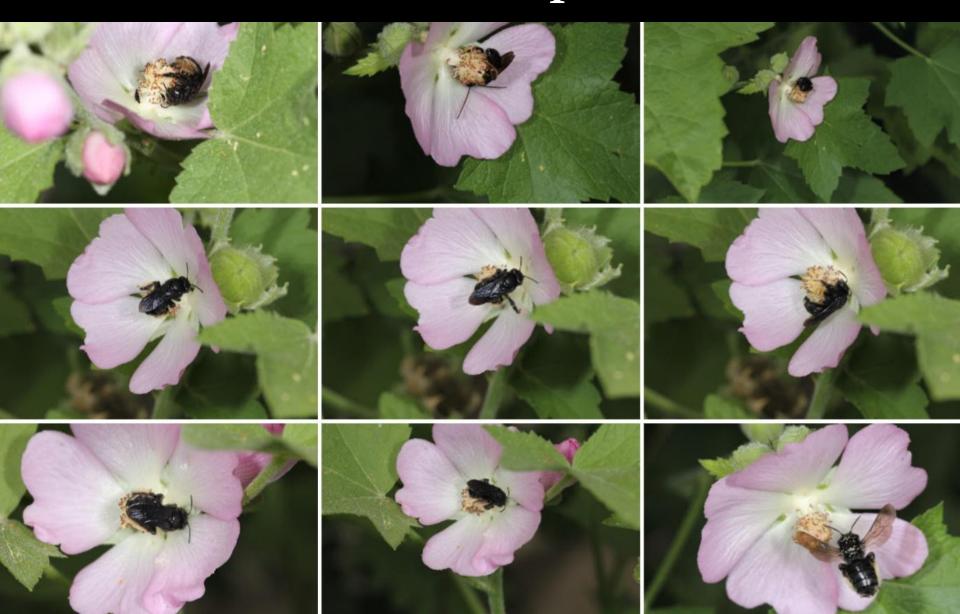




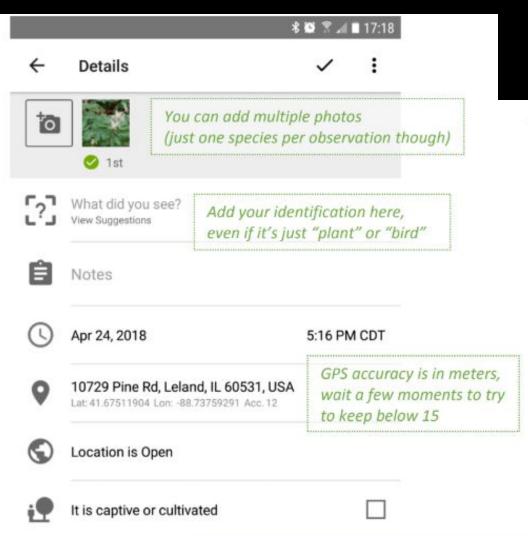


Carex woodii has dark red stems

Take a lot of photos



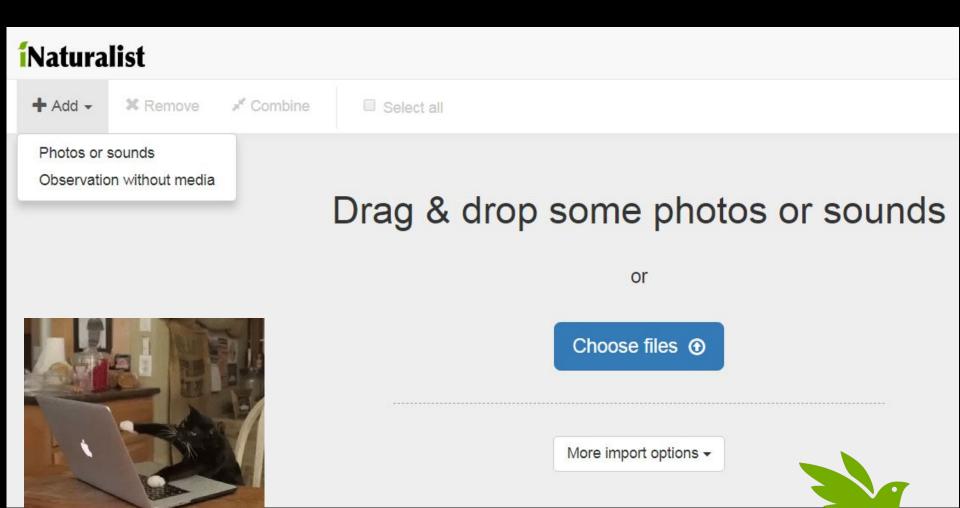
Create an Observation from App



Add an Observation:

- Click (+) on Android or camera icon on iPhone
- 2. Add one or more photos as evidence
- 3. When you saw it is added automatically
- 4. Where you saw it is added automatically
- Enter <u>what</u> you saw, choose a Computer Vision suggestion, or leave it blank
- 6. Save: ✓ on Android, "save" on iPhone
- Upload (now or later)
- Check <u>iNaturalist.org</u> later for activity on your observations

Create an Observation from Computer



Naturalist

O Hodgkins, IL, USA



Latitude

41.7717357

Longitude

-87.8655427

Accuracy (meters)

46.3883079

Locality notes

Hodgkins, IL, USA



App vs. Website

I use the app to...

- Make observations
- View observations near me while traveling

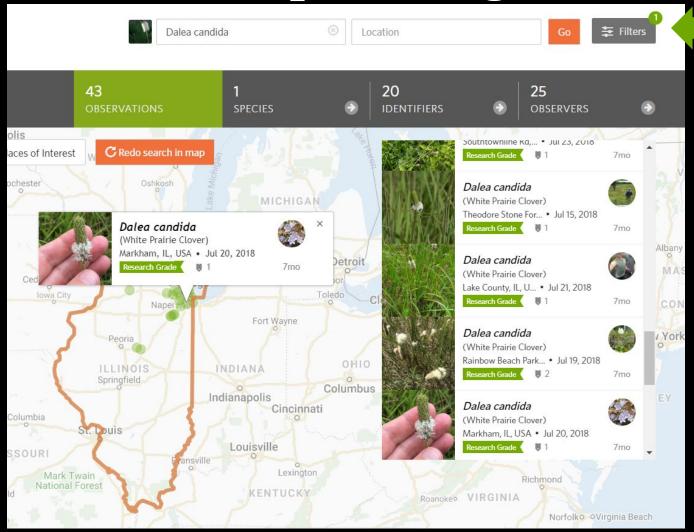
I use the website to...

do everything else

- Upload observations from camera
- Add/refine identifications
- Add IDs, comment, fave other users' observations
- Create and manage projects
- Write journal and project posts
- View taxon pages
- View stats
- Find local or taxonomic experts
- Export data



Explore Page Filters



https://www.inaturalist.org/observations?place_id=35&taxon_id=81598&year=2018

Help identify

Identify





Sanguinaria canadensi Bloodroot ✓ Agree



Sanguinaria canadensi Bloodroot ✓ Agree



Bloodroot ✓ Agree



Sanguinaria canadensi Bloodroot

✓ Agree



Sanguinaria canadensi Bloodroot







Sanguinaria canadensi Bloodroot

✓ Agree



Sanguinaria canadensi Bloodroot ✓ Agree



Sanguinaria canadensi Bloodroot ✓ Agree



Sanguinaria canadensi Bloodroot

✓ Agree



Sanguinaria canadensi Bloodroot

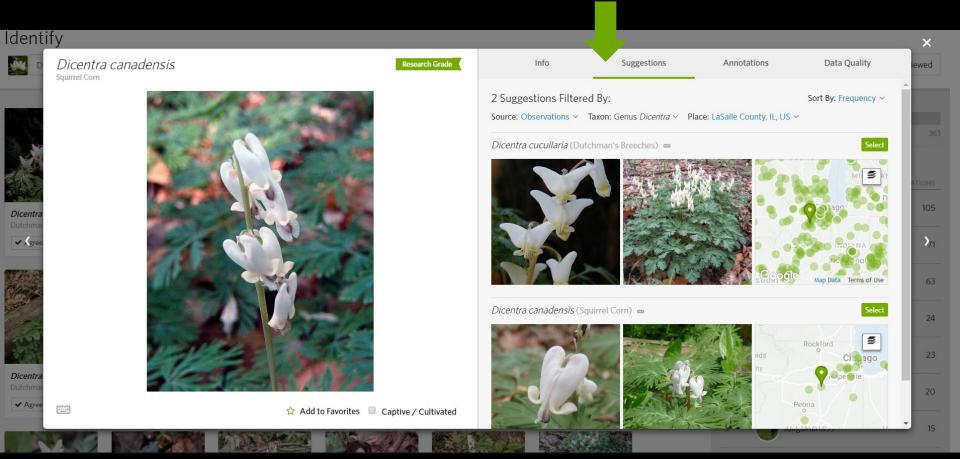
✓ Agree

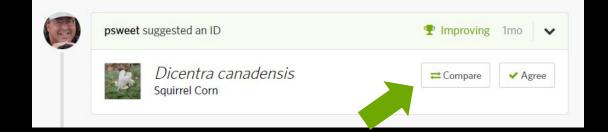


Sanguinaria canadensi

Bloodroot ✓ Agree

Suggestions / Compare tool

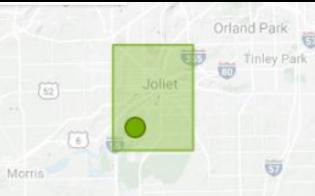


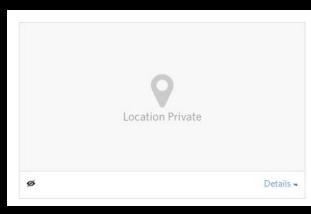


Geoprivacy

- Location privacy
- Manual option personal geoprivacy
- Automatic taxon/species geoprivacy: "taxa that may be threatened by collection/harvesting or otherwise disturbed due to the public's knowledge of its location"







Open

Obscured

Private

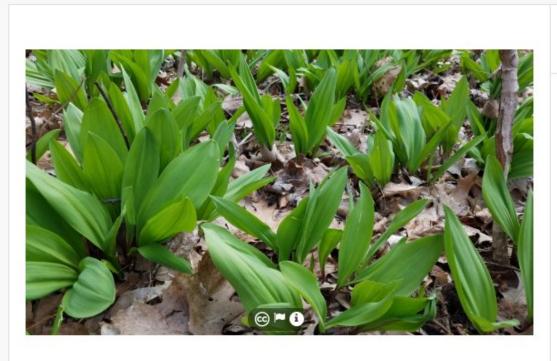
Random point within a

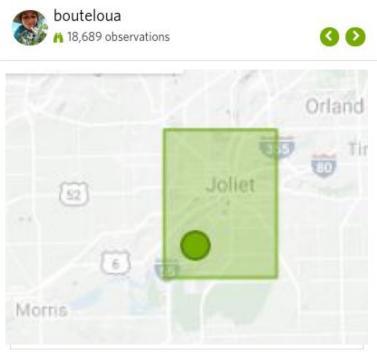
0.2 x 0.2 degree rectangle
(~150 square miles)

Species Geoprivacy

"taxa that may be threatened by collection or harvesting or otherwise disturbed due to the public's knowledge of its location"

Allium tricoccum var. tricoccum (Wide Leek) VIII Research Grade





Species Geoprivacy

such as...

many orchids and other rare, showy plants many species of reptiles and amphibians wild leeks in the Chicago area



Ornate box turtle by Bryan Box

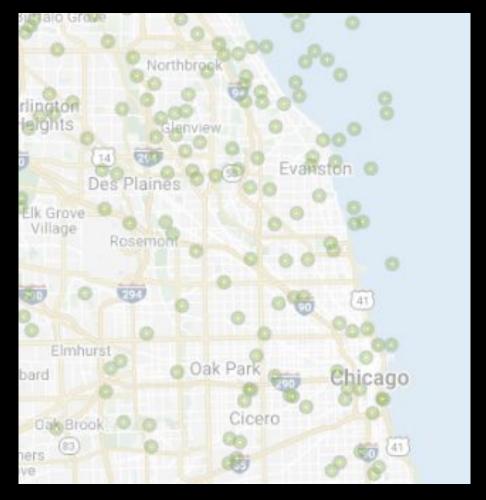
Showy lady slippers by Bill Spiers

Species Geoprivacytrade-offs

Thimbleweed (Anemone virginiana)
open taxon geoprivacy

Highland Park Northbrook eights Glenview Evanston es Plaines Rosemont Elmhurst Oak Park Chicago Cicero

Wild leeks (*Allium tricoccum*) **obscured** taxon geoprivacy



Accessing Hidden Coordinates

1. User-to-user trust system

- "Your Relationships" page: <u>inaturalist.org/relationships</u>
- User selects "trust with hidden coordinates"

2. Traditional Project

- To set up, requires account to have 50 observations
- Requires manually adding observations to project
- Users must grant access to coordinates for the project

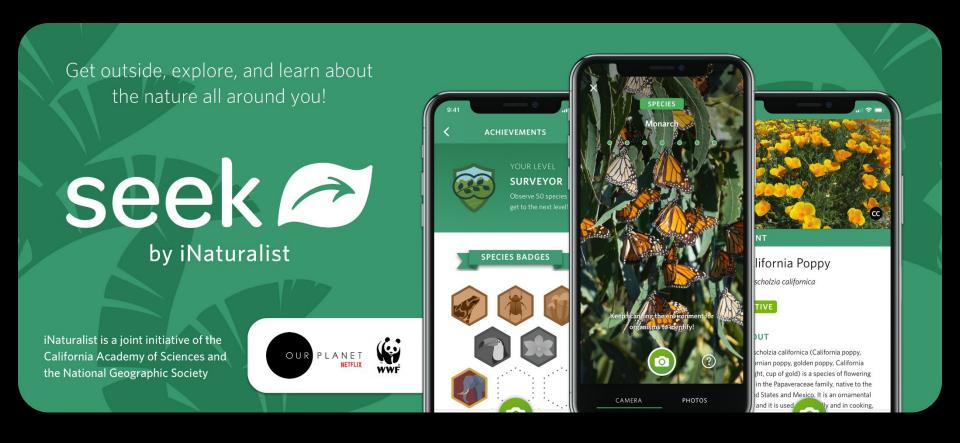
Download any important data regularly

Geoprivacy Caution & Tips

- Easy to interpolate true coordinates based on your other nearby observations that day
 - Obscure entire day
 - Upload observations out of order
- Not everything is set to auto-obscure that should be
 - Please flag the species for curation
- Be careful who/which projects you trust with accessing coordinates
- Consider whether you should post it online at all
- Staff are exploring improvements to geoprivacy

Kids and iNaturalist: Best Practices

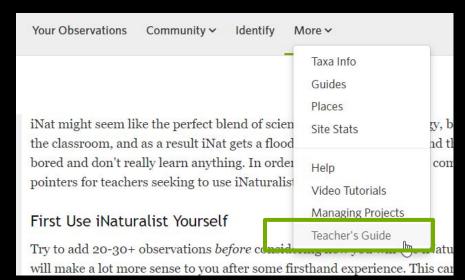
• Younger children: consider using the "Seek" app instead



Kids and iNaturalist: Best Practices

- Younger children: consider using the Seek app instead
- Use iNaturalist yourself first
- Focus on wild organisms
- Teachers:
 - Don't set large observation/ID requirements or require "research grade"
 - Watch out for copyrighted images/gaming the system
 - Curate their observations yourself

iNaturalist Teacher's Guide

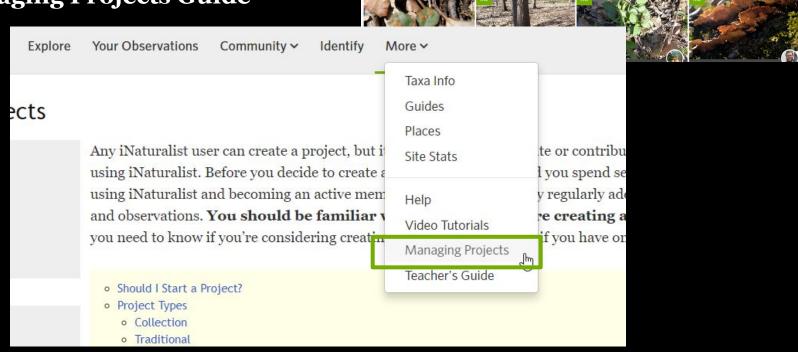


Should I create a project?

Probably not, unless:

- Bioblitz/event
- Create a sub-community
- Need access to private coordinates
- Require certain observation fields

Managing Projects Guide



Bioblitz Harms Woods (April 29th, 2018)

183

SPECIES

534

Recent Observations (

OBSERVATIONS

Overview

Join the Harms Woods mini bioblitz on Sunday,

April 29th at 9AM. We'll document plants, animals, fungi, and other creatures that live at Harms as part of the City Nature Challenge 2018. Harms Woods is a diverse oak woodland situated along the North Branch of the Chicago River in

Glenview, IL. One of the best spots for spring

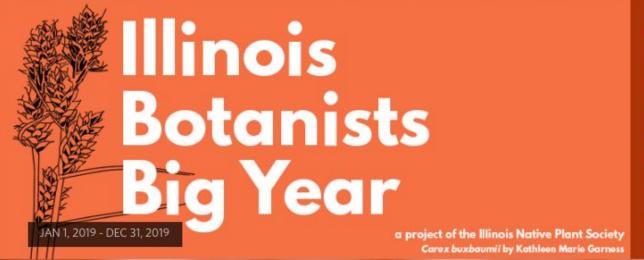
5 Stats

Edit Project

12

OBSERVERS

IDENTIFIERS



About

Members 8 68

Find the most plant species in Illinois in 2019 and rejoice in your victory!

- 1. Must be a plant,
- 2. Observed in Illinois,
- 3. Observed in 2019, and
- 4. Research grade

⇒HELP IDENTIFY

Read More >

CEdit Project



Overview

58,033 OBSERVATIONS 1,934

SPECIES

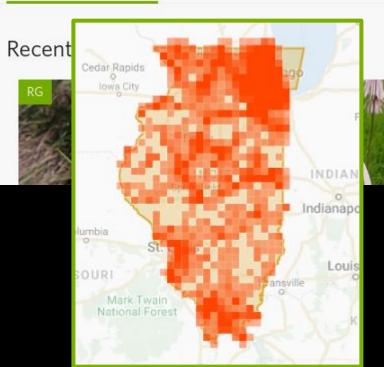
1,470

IDENTIFIERS

4,045

OBSERVERS

Stats







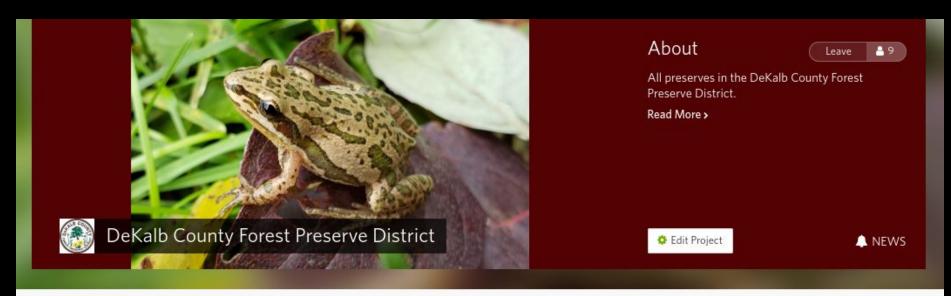


Adding Place Boundaries

- All states and county boundaries already in database
- Search existing places before adding new ones
- To add a new place to iNat, your account needs a minimum of 50 observations
- Places aren't currently "transferable" make the place from an organizational account, not a personal one

DeKalb County Forest Preserve District

inaturalist.org/projects/dekalb-county-forest-preserve-district



Overview

930 **OBSERVATIONS** 470

SPECIES

271

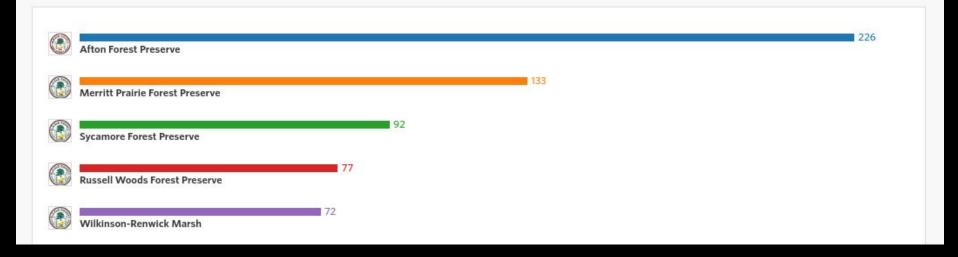
IDENTIFIERS

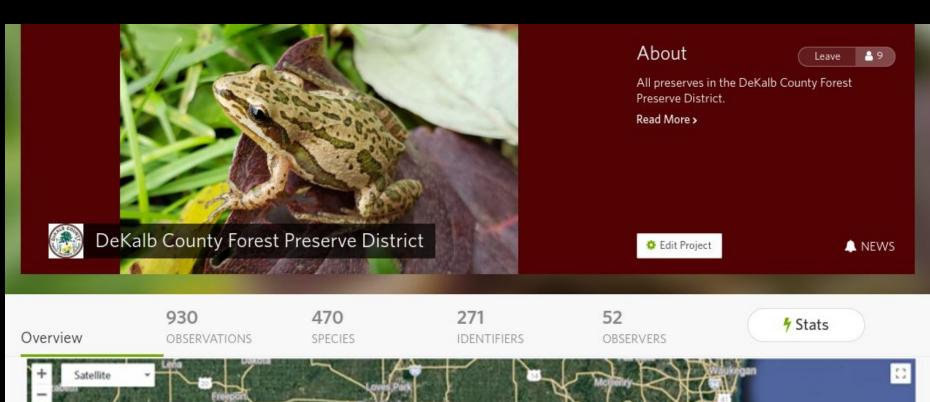
52

OBSERVERS

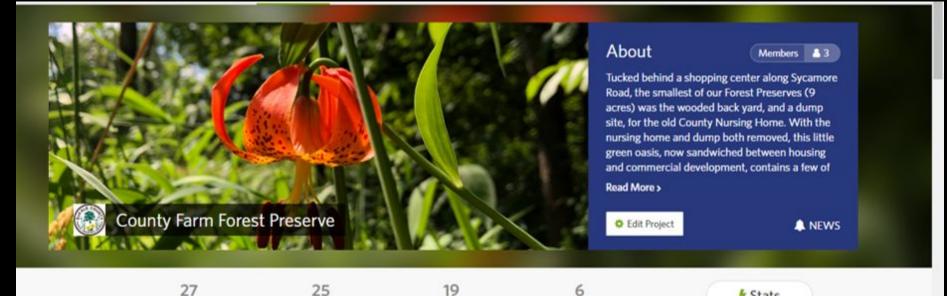


Leaderboard Sort By: Observations | Species | Observers









IDENTIFIERS

OBSERVERS

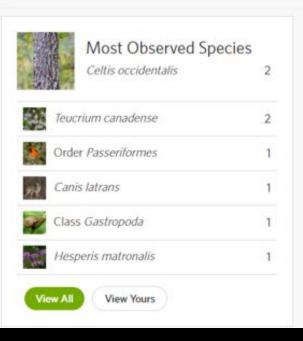
Most Observations damo87 11 mccrea 7 dekalbcountyfpd 6 cardiac 1 christinelag wild_ecology View Yours

OBSERVATIONS

SPECIES

Overview





4 Stats

Getting more help

- FAQ page: <u>inaturalist.org/pages/help</u>
- Ask on the forum: <u>forum.inaturalist.org</u>
- General support email is help@inaturalist.org
- @bouteloua is happy to help!

Bugs!

File a bug report on the forum





Main iNat Tips

- Don't just use the app more features on the website
- Take multiple, identifiable photos
- Don't be afraid to ask for help
 ...or to make mistakes







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