



Invasives Strike Force Survey Training Part 2: Survey Procedures and Data Collection

May 29, 2024

Presented by

Dr. Brent Boscarino

Director of Land Stewardship

New York - New Jersey Trail Conference
Coordinator, Lower Hudson Partnership for
Regional Invasive Species Management



**INVASIVE SPECIES
MANAGEMENT**
LOWER HUDSON

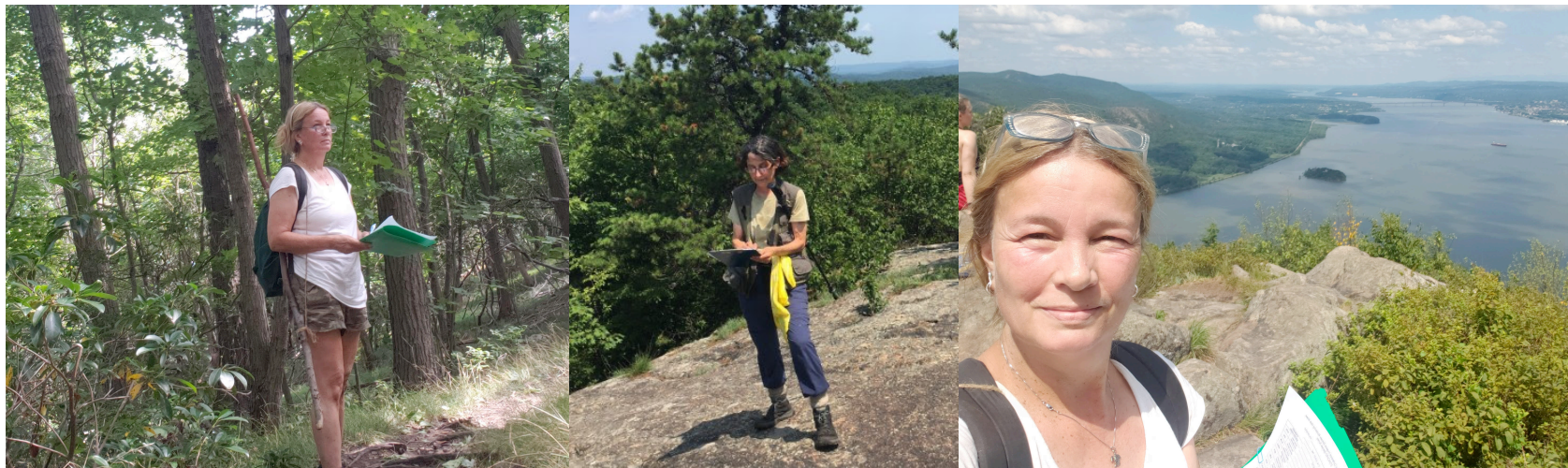


NEW YORK STATE
**INVASIVE SPECIES
MANAGEMENT**



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You've completed Part 1, now what?



- Learn the data collection process – tonight!
- You will then be assigned a 1-2 mile section of trail to search for these 6 invasive species
- You have full field season (through September) to complete your section and return data to us
- Have fun exploring!!!

Step 1: Requesting/Receiving a Survey Assignment

- Fill out the surveyor questionnaire which will prompt you to choose a trail section, favorite park and/or something convenient to your house (I will send google questionnaire at end of webinar)
- You will receive an email from us with the following:
 - Directions to your trailhead and trail section/trail map
 - QuickID guide of the species to print to take with you
 - Datasheet for recording invasive species in field
 - Links to training workshops for review





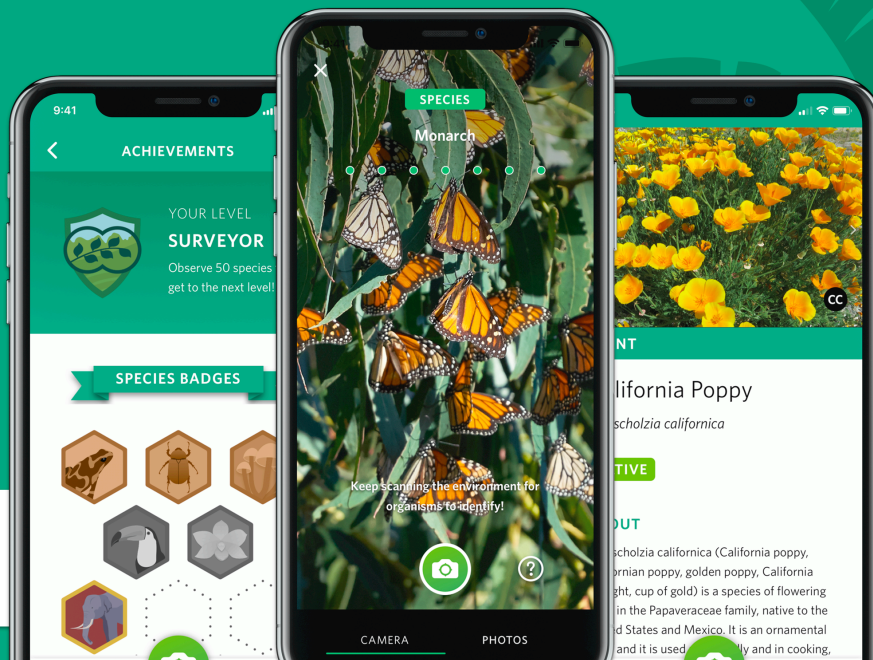
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Step 2: Download Seek

Get outside, explore, and learn about the nature all around you!

seek 
by iNaturalist

iNaturalist is a joint initiative of the California Academy of Sciences and the National Geographic Society



- Seek was created by iNaturalist, a large online photodatabase and community
- Uses live image recognition- it scans the vast iNaturalist photo database for image matches of what you have your phone pointed at
- Like a live barcode scanner that IDs species in real time!

What is Seek?



Photo credit: dezeen.com



Step 3a: Sign up for iMapInvasives Account

Log in to iMapInvasives

brent.boscarino@gmail.com

.....

Log In

[Forgot Password?](#)

Or if you don't have an account, sign up with the form below:

Sign Up

Help us track Invasives - it's free.

(Users must be at least 13 years old)

First Name:

Last Name:

Email:

Retype Email:

Password:

(Must be at least 8 characters long, with a number and an uppercase letter)

Retype Password:

Jurisdiction:

**Write down
and
remember
your user
name and
password!!!**

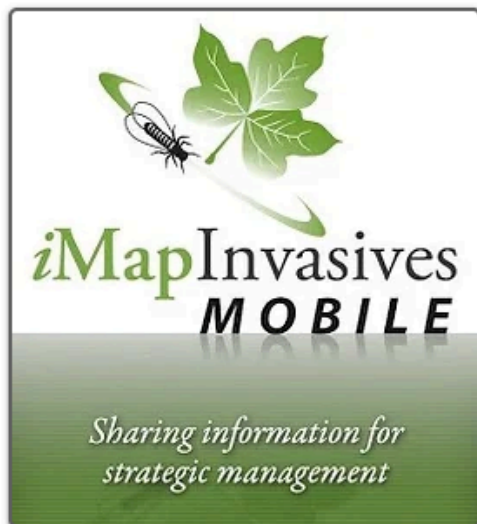


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Step 3b: Download iMapInvasives mobile

Mobile Tools

Report your sightings of invasive species with your smartphone, tablet, or other mobile device by choosing from the four different methods listed below.



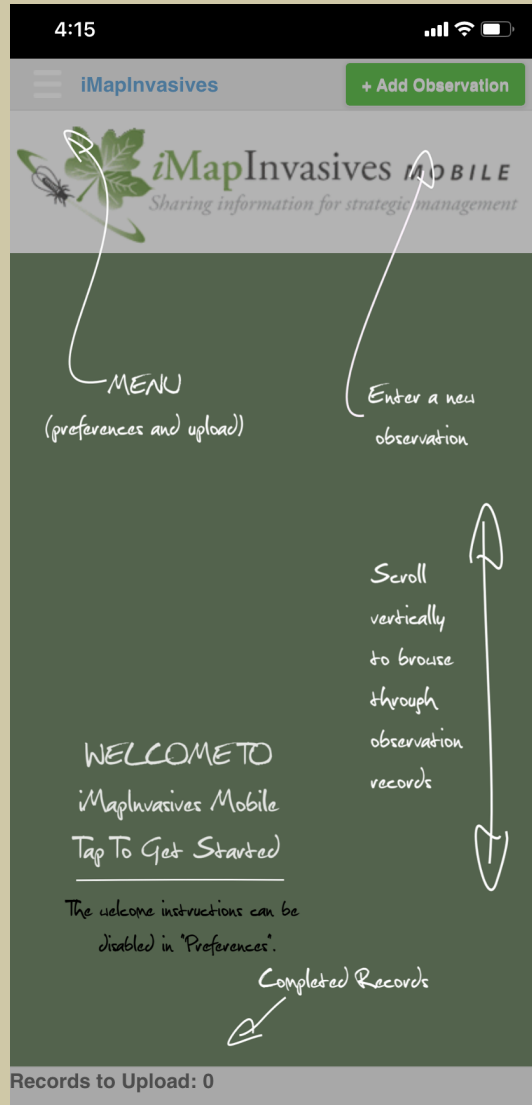
iMap Mobile App (Android & iPhone)



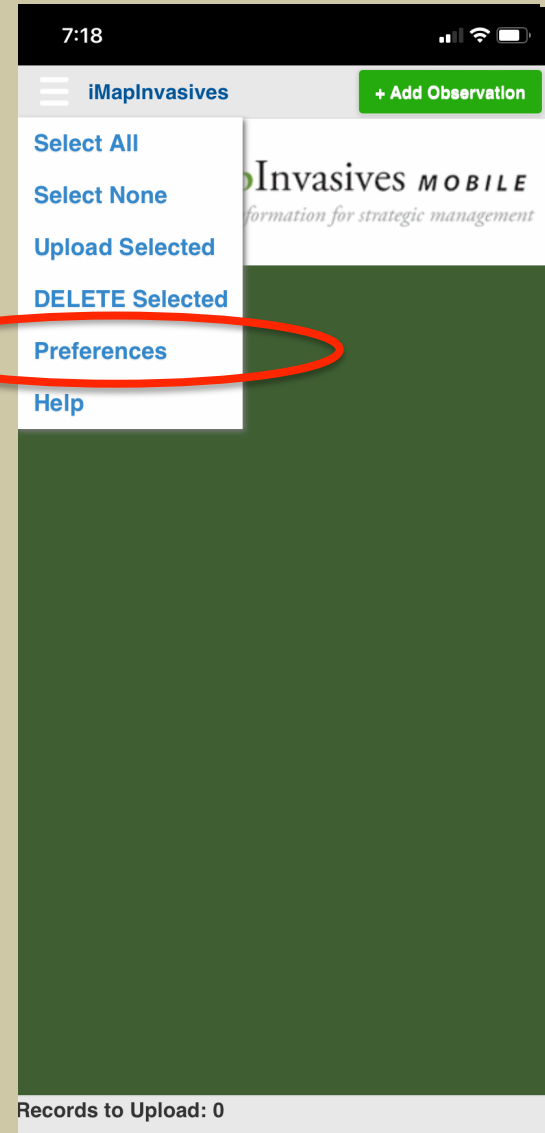
The iMapMobile app allows for quick and easy invasive species reporting for citizen scientists and natural resource professionals. With iMapMobile, you can report invasive species locations to your online iMapInvasives account by using your mobile device's camera and GPS, even when you're out of connectivity range. You need to have an active iMapInvasives account in a participating state or province for your iMapMobile observations to sync. ([Sign up for a free iMapInvasives account here.](#)) After submitting a batch of records, be sure to log into iMapInvasives when you're back at your computer to add additional photos and comments to each observation record.

Mobile App Setup Guide

Step 4: iMapInvasives Mobile SetUp



Click the 3-line menu bar



Preferences

Jurisdiction Species List:

(Select the jurisdiction in which you will collect data)

New York

iMapInvasives Username (Your Email Address):

(Enter the email address associated with your iMapInvasives account)

brent.boscarino@gmail.com

iMapInvasives Password:

(Must match your iMapInvasives password)

.....

[Create Account or Reset Password](#)

Retrieve iMap Lists

Species Name Display:

Scientific

Common

Customize Species List

Picture quality:

25%

50%

100%

Save Photos Taken In iMapInvasives App To

Device Photo Library

(If Permitted By Device)

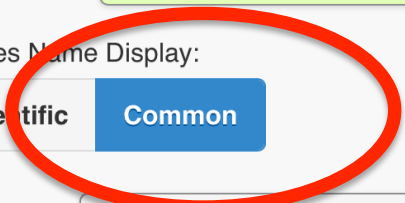
Set to New York or New Jersey

Enter in iMap Username and Password (need to have already signed up online)

****Click Retrieve iMap Lists to upload your project info./data to sync****

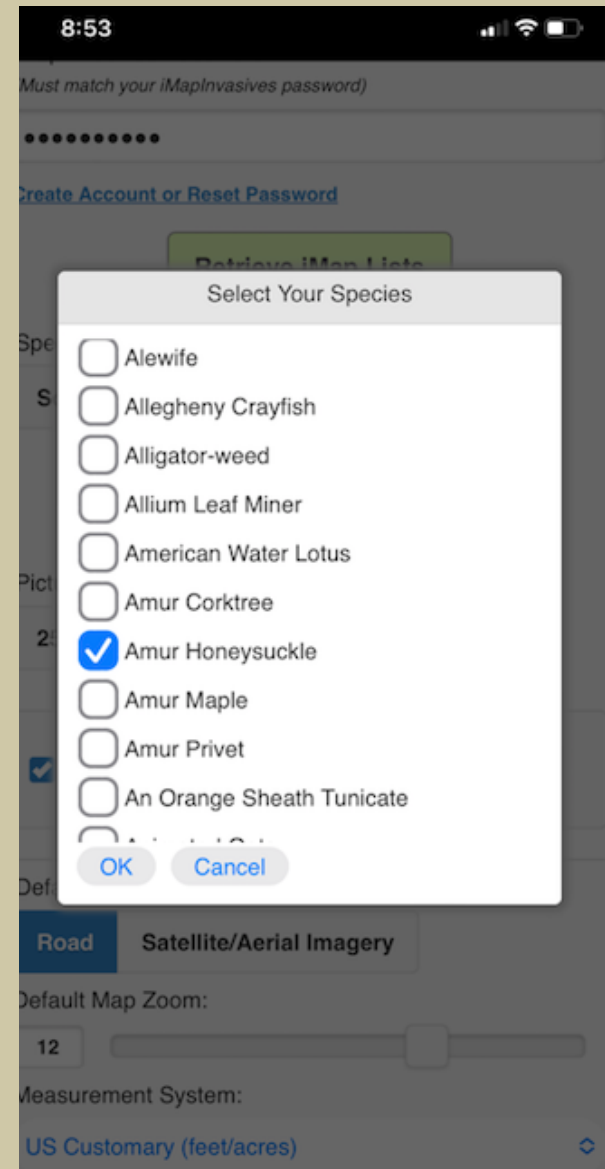
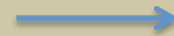
Lastly, click this

Save photos to phone



When in customize list section...

- Add “a fake species for testing”
 - Add “amur honeysuckle”
 - Add “beech leaf disease nematode”
 - Add “honeysuckle (species unknown)”
 - Add “Japanese Spiraea, Japanese Meadowsweet”
 - Add “Linden Arrow-wood”
 - Add Siebold’s Viburnum”
-
- Once you’ve selected all seven, hit ok- that will take you back to the main preferences page



4:57



(If Permitted By Device)

Default Basemap Type:

Road

Satellite

Default Map Zoom:

12

Measurement System:

US Customary (feet/acres)

Default Project:

iMap 3 Projects associated with your account appear in this list (after being retrieved). Select a Project here to automatically associate each new record with it (optional).

Lower Hudson PRISM - General

Default Organization:

iMap 3 Organizations associated with your account in this list (after being retrieved). Select an Organization here to automatically associate each new record with it (optional).

Lower Hudson (LH) PRISM

Show Welcome Instructions

Save

Cancel

Last iMap Lists Refresh: Feb 8, 2021

I will add you to the Lower Hudson PRISM-General (**right now, leave it blank**)

Leave this blank

Hit Save!!!



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Step 5: Get ready to go!

- Review and grab your Quick ID guide (will receive soon)
- Review the Part 1 webinar before leaving the house
- Make sure you've got a fully charged phone
- Grab a trail map or use Avenza!
- Take multiple copies of field data sheets with you- at least 5!
- Review directions to parking lot/ trailhead you've been assigned and head out with directions in hand/ plugged into your car's GPS!

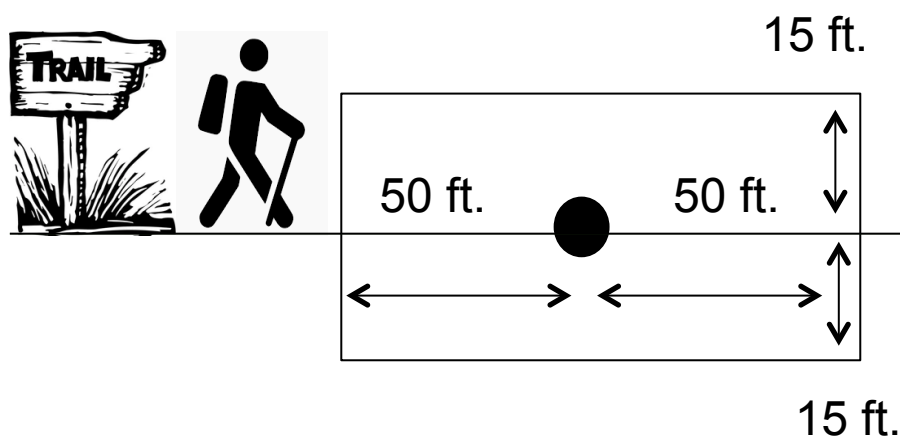




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The Big Picture.....

- Invasive species data is recorded in an imaginary 30 x 100 ft. “survey rectangle”
- To get to the center of your first rectangle, you’ll walk 50 ft. into the trail (represented by dot below)
- The goal is to look for and record the six invasive species you see (or don’t see!) within that rectangle plus some key native species
- Record presence/absence on both field data sheet and iMap app



For FIRST survey rectangle, walk 20 paces ~ 50 feet

Rectangle also includes 15 ft. on either side of trail



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STEP 6: Collect invasive species data!

Overview of items you'll be collecting/recording:

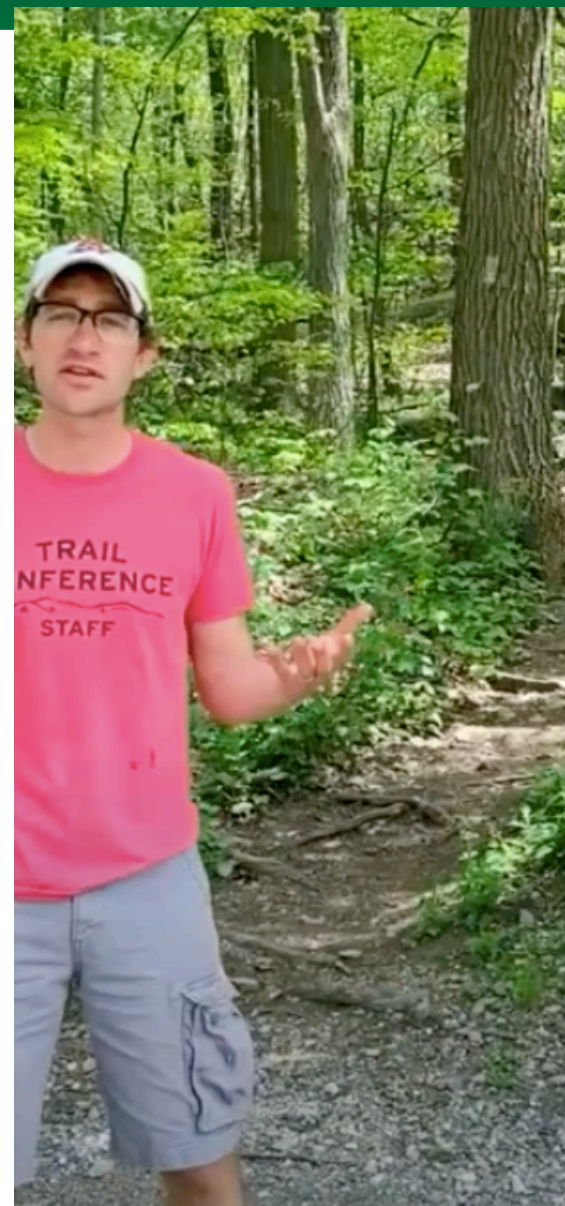
- # of beech trees in survey rectangle
- Extent of BLD discovered
- Any healthy beech?
- Linden and Siebold's viburnum abundance
- Native viburnums?
- Amur and "other" invasive honeysuckle presence/absence
- Invasive honeysuckle abundance
- Japanese spiraea abundance
- iMap Record for each invasive species
- Any observational notes?





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Now, let's pretend you
are out there in the field
with me!
Let's do the first survey
rectangle together

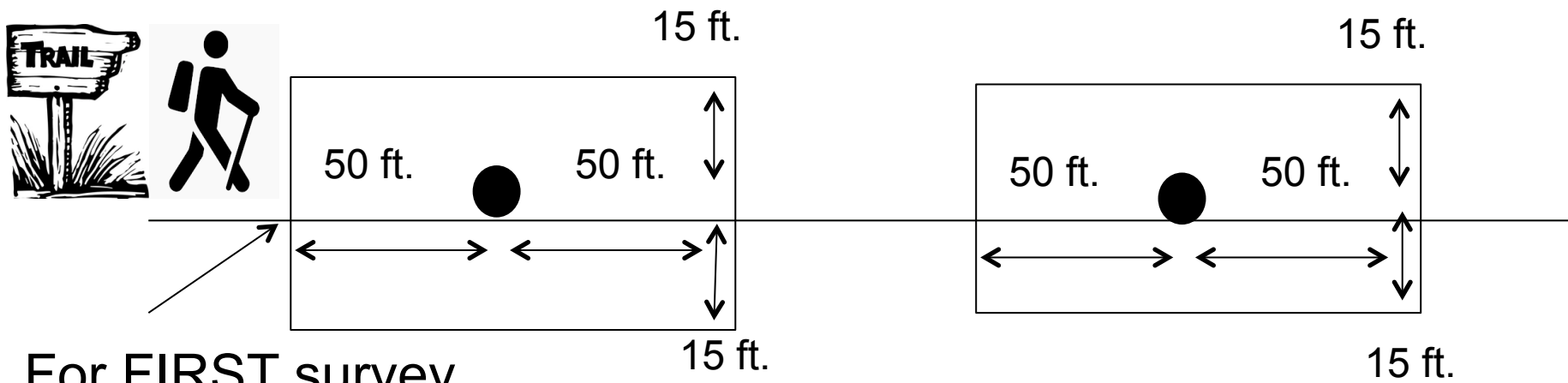
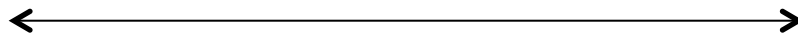




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Step 6: Once data is recorded for all 6 species in one rectangle, move to next!

For every other point afterwards:
Walk 100 paces ~250 ft.



For FIRST survey rectangle, walk 20 paces ~ 50 feet



A quick note on survey points

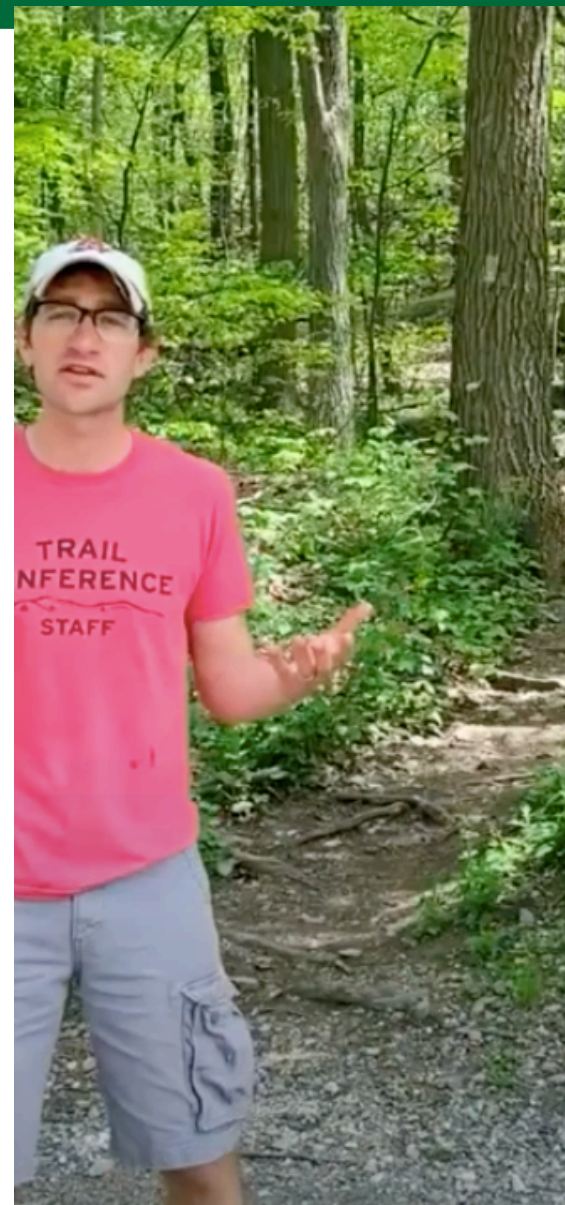
- These 50 ft and 250 ft distances are *estimates*. **They don't have to be exact!**
- **You only need to make ONE iMap record per species per rectangle.** You can count number in your written data sheet or in notes section
- You can always take MORE data points (e.g., you pass some honeysuckles that don't fall within the survey rectangle, it's ok to report to iMap)





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Now, let's pretend you
are out there in the field
with me!
Let's do the second
survey rectangle
together





Step 7: Ending survey for day

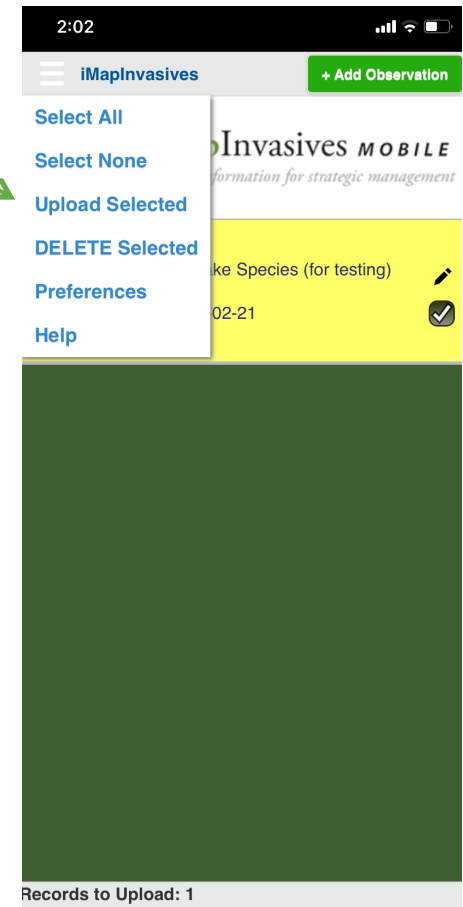
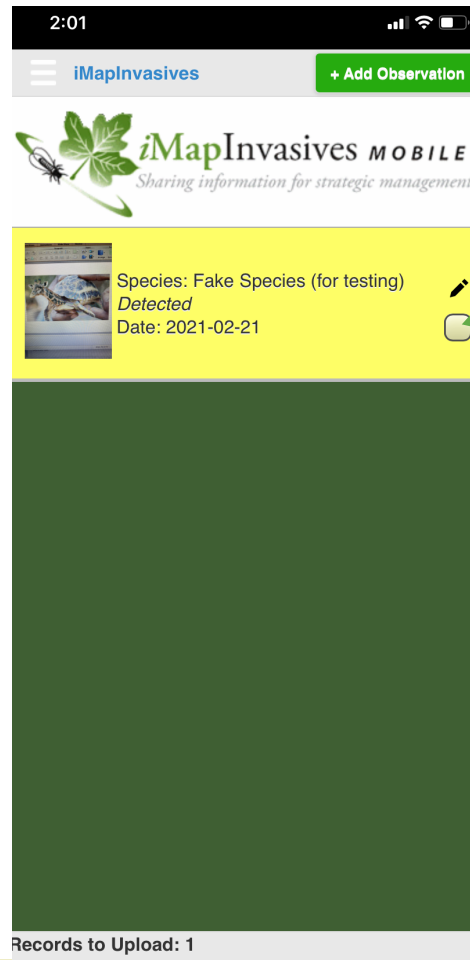
- When you stop recording data (either you have finished your trail or ended for the day),
- Note the time, end location and record your hours

2019 NY-NJ Trail Conference Invasive Species Monitoring Data Sheet
STANDARD Species Survey

DATE: 7/7 TRAIL SEGMENT NAME: Pyramid 4 VOLUNTEERS: JOE P.
START TIME: 10:00 END TIME: 12:00 TOTAL SURVEY TIME: 2

Step 8: Officially upload data when back to wifi

- The “yellow boxes” on the iMap app only save the data on your phone
- You will need to upload the records to iMap
- Its an easy two-step process





Some final notes...

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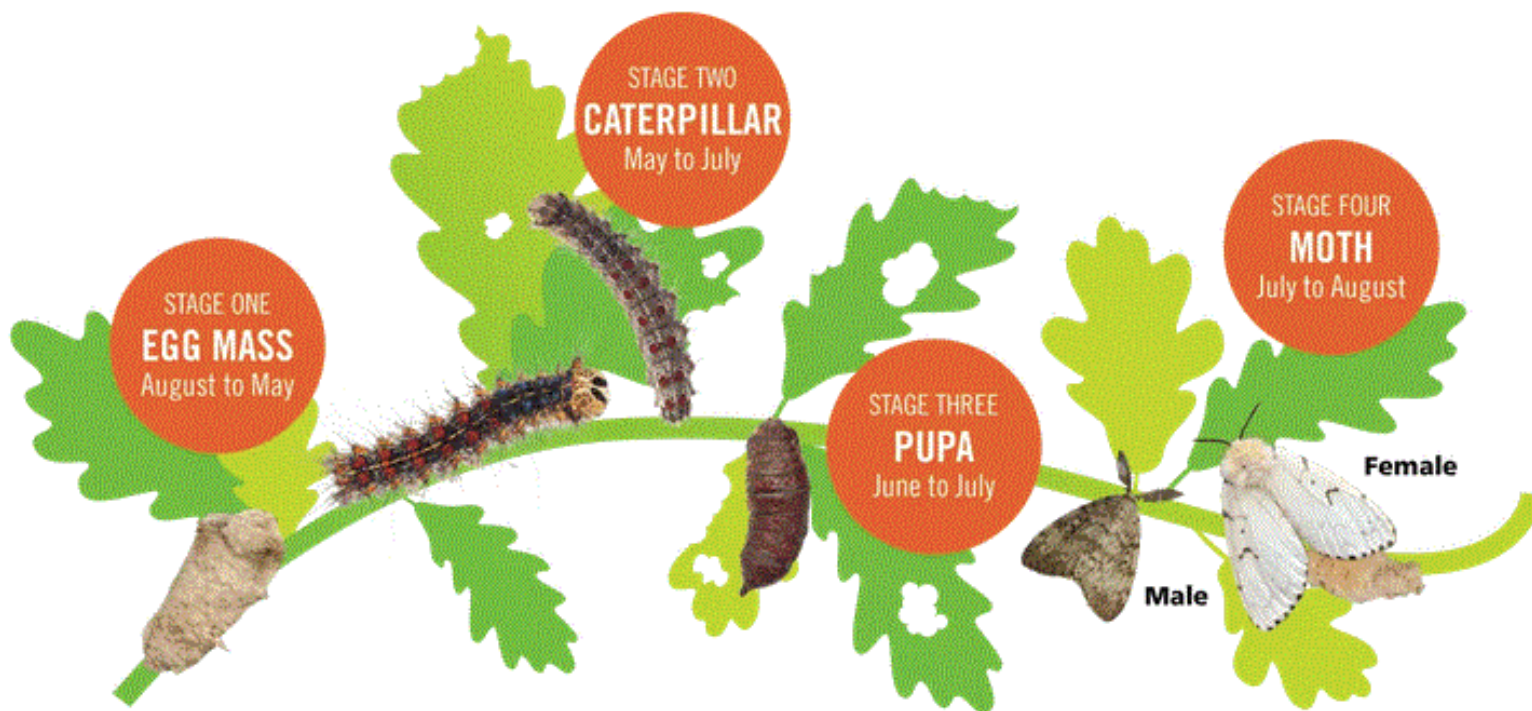
- Beware ticks; wear long pants and long sleeves and do a tick check
- Beware of moving vehicles in parking lots
- Watch your footing on steep or rocky terrain
- Be aware of private property
- Keep away from poison ivy!



Brett Marshall, Sault College, Bugwood.org



What's with all the caterpillars?



The spongy moth lifecycle has four stages. Timing of each stage may vary due to climate and location.

What's with all the caterpillars?

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Figure 3. (Left) The larval stage of spongy moth. Notice the pairs of blue and red spots running down the body length. (Right) The larval stage of the eastern tent caterpillar. Notice the median white stripe on the back with yellow stripes on the sides; the rest of the body is mottled blue, yellow, and black. Photos: Tom Butzler, Penn State



Packing Right

- Ensure you have everything you need to take
 - Multiple copies of Data sheets
 - Clipboard
 - Pencils
 - GPS unit with extra batteries, or fully charged phone
 - Trail map
 - Camera, binoculars (& maybe knife or clippers)
 - Plant ID guides, and Data Collection protocols
 - Plus your usual hiking gear such as water, snack, sunscreen / bug repellent.



Returning Your Data

- Once you have fully completed your trail section, please send us an email to let us know
- **We will then send you instructions on how to return your data sheets**
- I don't want to overwhelm you with too much information on returning data just yet!



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For now.....

- Fill out a survey questionnaire to request a trail assignment of your choosing!- I will put the link in the chat and also send in a follow-up email
- I will send you a follow-up email with the following:
 - Confirming or relaying your assignment
 - A volunteer service agreement form to fill out **BEFORE** you start surveying





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An Optional Suggestion

Invasive Species Plant ID | Guided Walk

as a part of New York Invasive Species Awareness Week (NYISAW)

Wednesday, June 5, 2024 - 05:30-7:30 pm

Castle Rock Unique Area - Sugarloaf Hill Trail

29 Wing and Wing

Garrison, NY 10524





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Another Optional Suggestion

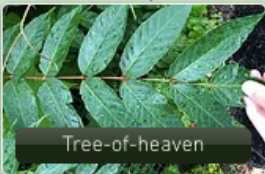
- Feel free to stay on webinar to practice posting points to iMapInvasives!

Welcome to

NY iMapInvasives

NY iMapInvasives is an online, collaborative, GIS-based database and mapping tool that serves as the official invasive species database for New York State. [Learn more about iMap.](#)

Featured species:



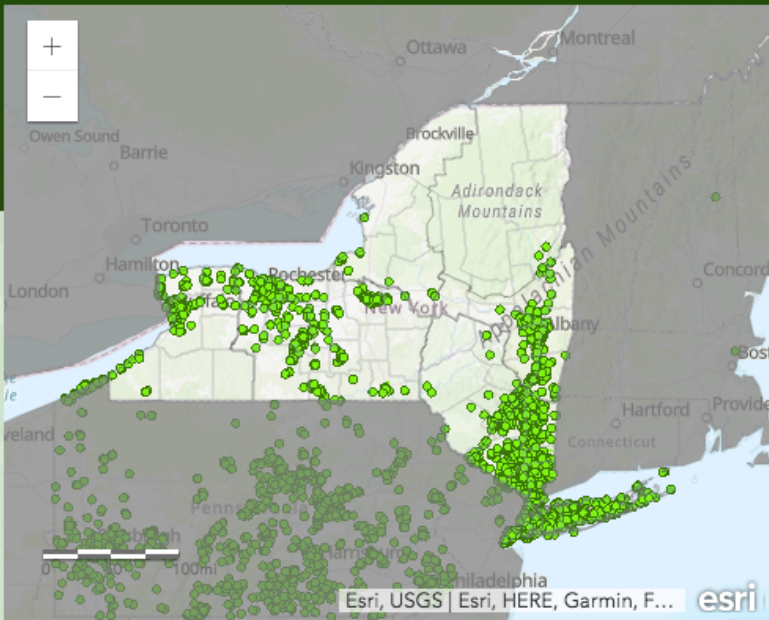
Tree-of-heaven

[Report an invasive](#)

[Create account](#)

[View public map](#)

Confirmed Reports of Tree-of-heaven in iMapInvasives



The map displays the state of New York with numerous green circular markers indicating confirmed reports of Tree-of-heaven. The markers are densely clustered in the eastern and central parts of the state, particularly in the Adirondack and Appalachian Mountain regions. Major cities like Toronto, Rochester, Albany, and New York are labeled. The map includes a scale bar (0 to 100 miles) and the Esri logo.



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Good luck with your detective work!





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Questions....email us!—invasives@nynjtc.org

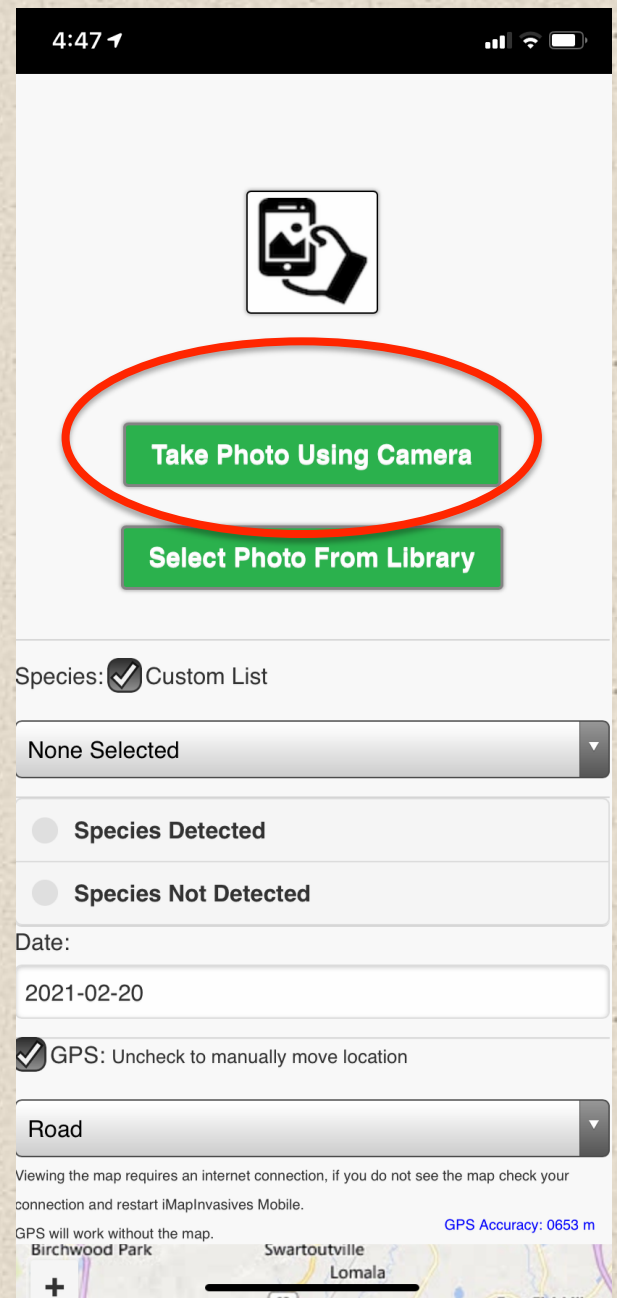


THANK YOU VOLUNTEERS!!!!

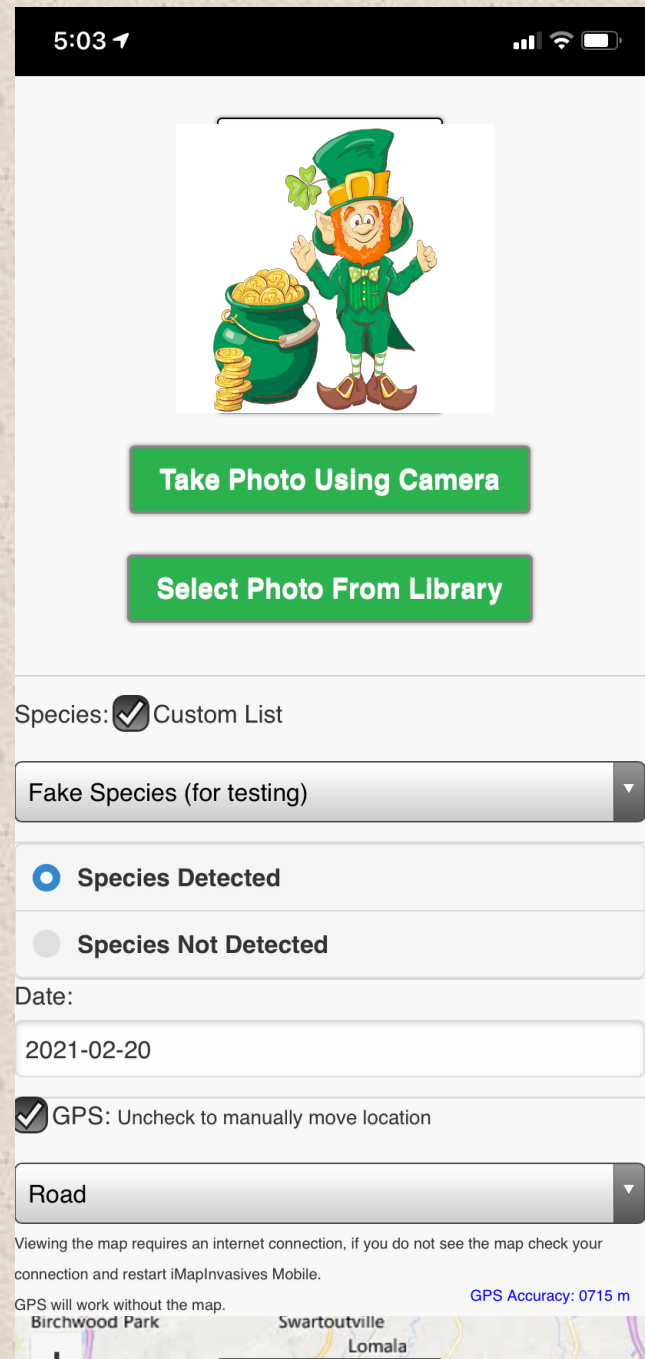
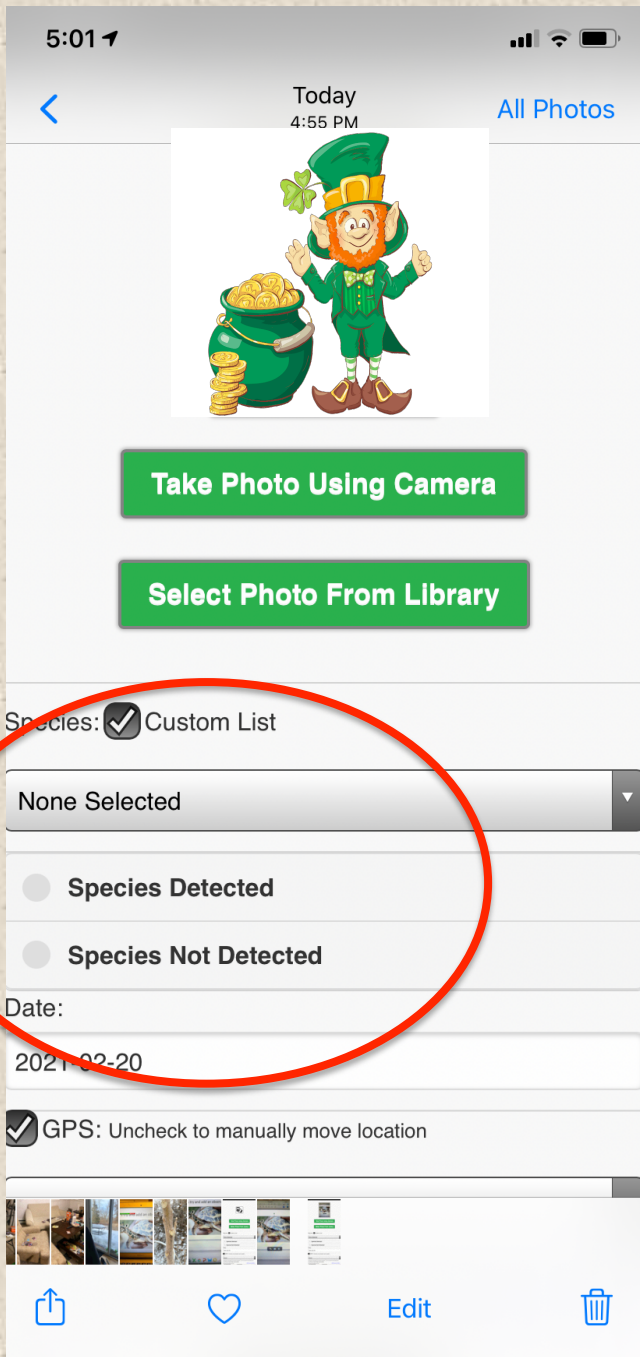


Let's try and add an observation of a
'fake species'









5:05

Brookside
Senior
Citizen

Location (Longitude, Latitude):
-73.8494370, 41.5251536

Map 3 Project: (Optional)
Lower Hudson PRISM - General

Map 3 Organization: (Optional)
New York-New Jersey Trail Conference

Time Searched (in minutes):

Size of area containing invasive:
(or type precise area with units into Comments box)

Distribution of invasive:

Observation Comments:

Save Cancel

Can enter in time searched here, if want- NOT required

If it was a real post and you found an SLF for example, here is where you would enter in notes on location

Hit Save!!!

