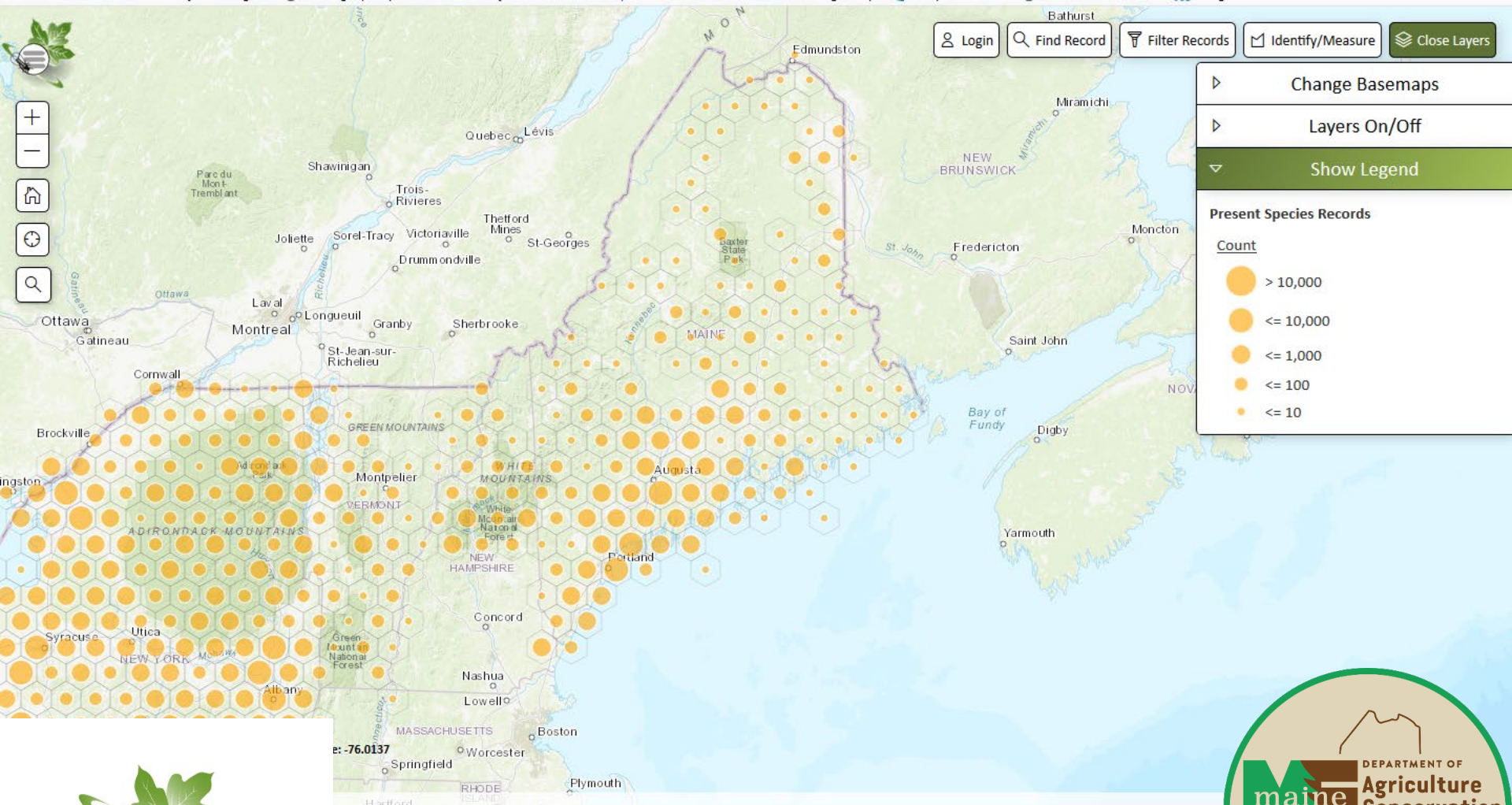# iMapInvasives Overview & Training

7/12/2024

Chad Hammer, Invasive Plant Biologist
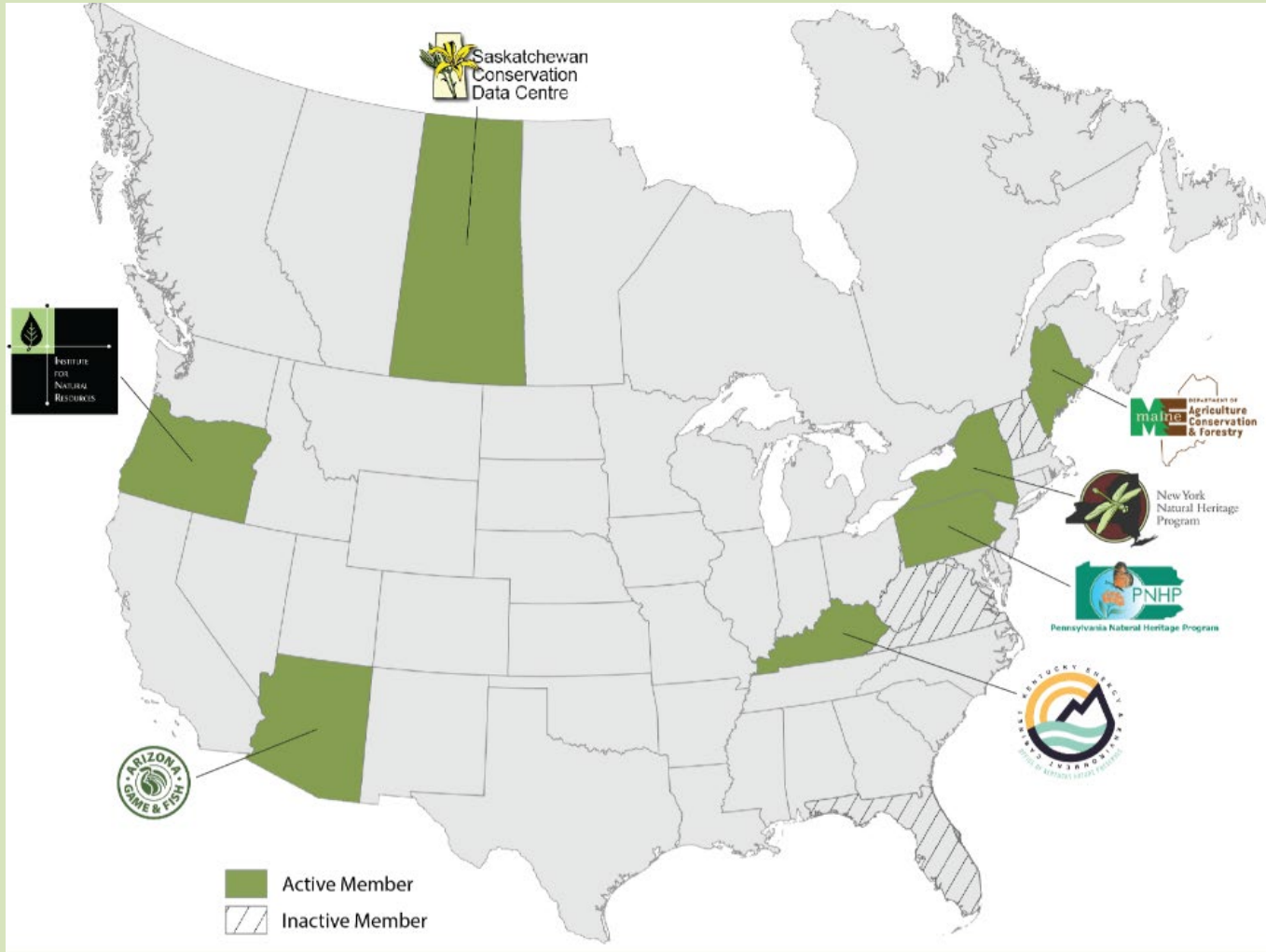**DACF, Maine Natural Areas Program**

iMapInvasives – what is it?

- Central repository for invasive species data
  - Data aggregator
- Online, all-taxa mapping tool
- GIS database
- Network of partners

- Owned, developed, and maintained by NatureServe
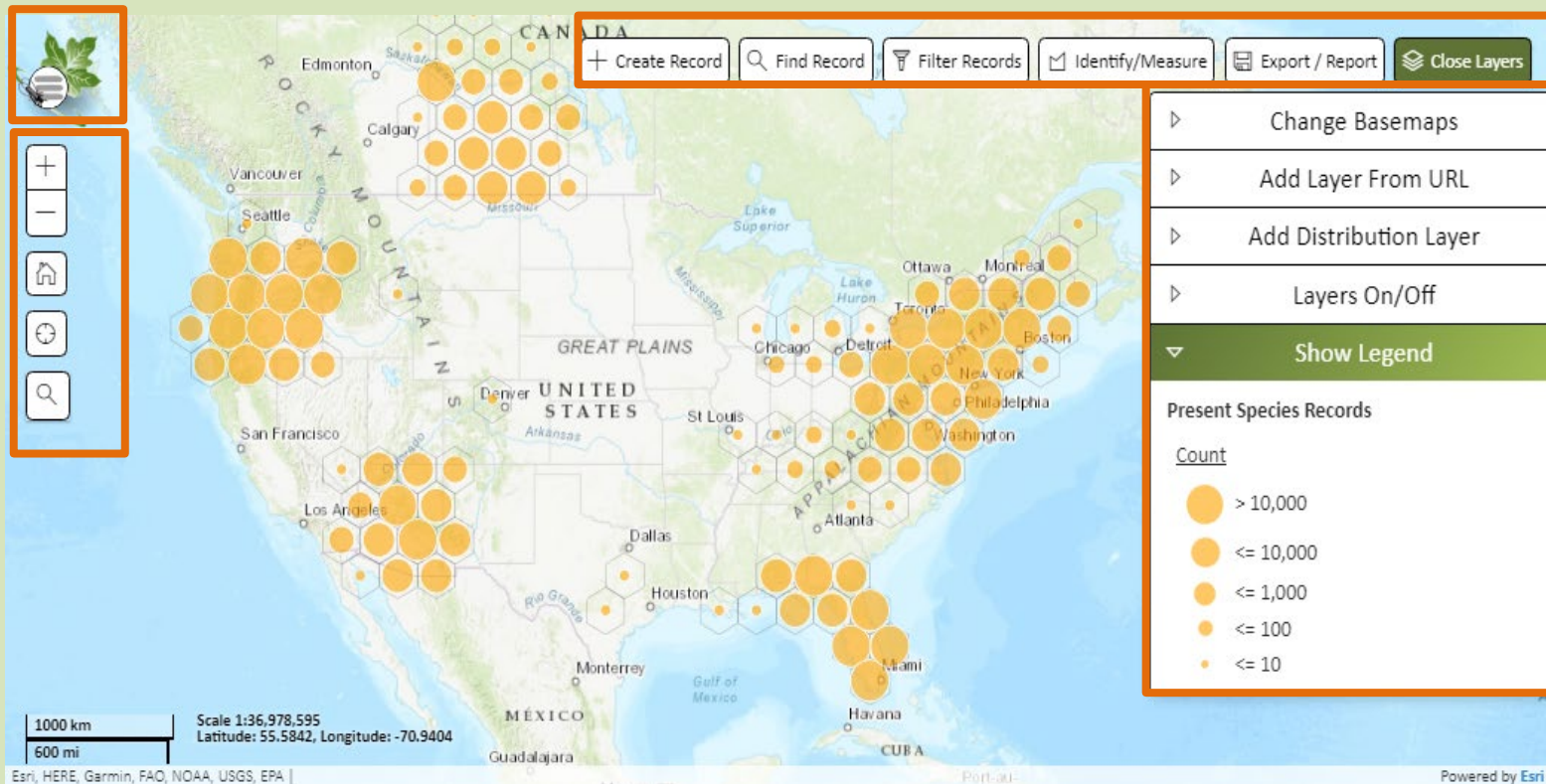
iMap Jurisdictions

iMap Desktop Map

Main Menu

Action Tools

Navigation

Geographic Layers

| Create Record | Find Record | Filter Records | Identify/Measure | Export / Report | Close Layers |

Change Basemaps

Add Layer From URL

Add Distribution Layer

Layers On/Off

Show Legend

Present Species Records

Count

- > 10,000
- <= 10,000
- <= 1,000
- <= 100
- <= 10

1000 km
600 mi
Scale 1:36,978,595
Latitude: 55.5842, Longitude: -70.9404

Esri, HERE, Garmin, FAO, NOAA, USGS, EPA |

Powered by Esri

iMap Desktop Map

iMap Desktop Map

iMap Desktop Map

iMap Desktop Map

iMap Desktop Map

Whatever filter criteria is set for is what data will export!

iMap Desktop Map

iNaturalist Data for species indicated in filter – but for the whole United States

iMap Desktop Map

Confirmed vs. Unconfirmed & Data Confirmation (QAQC)

Importance of photos for species ID
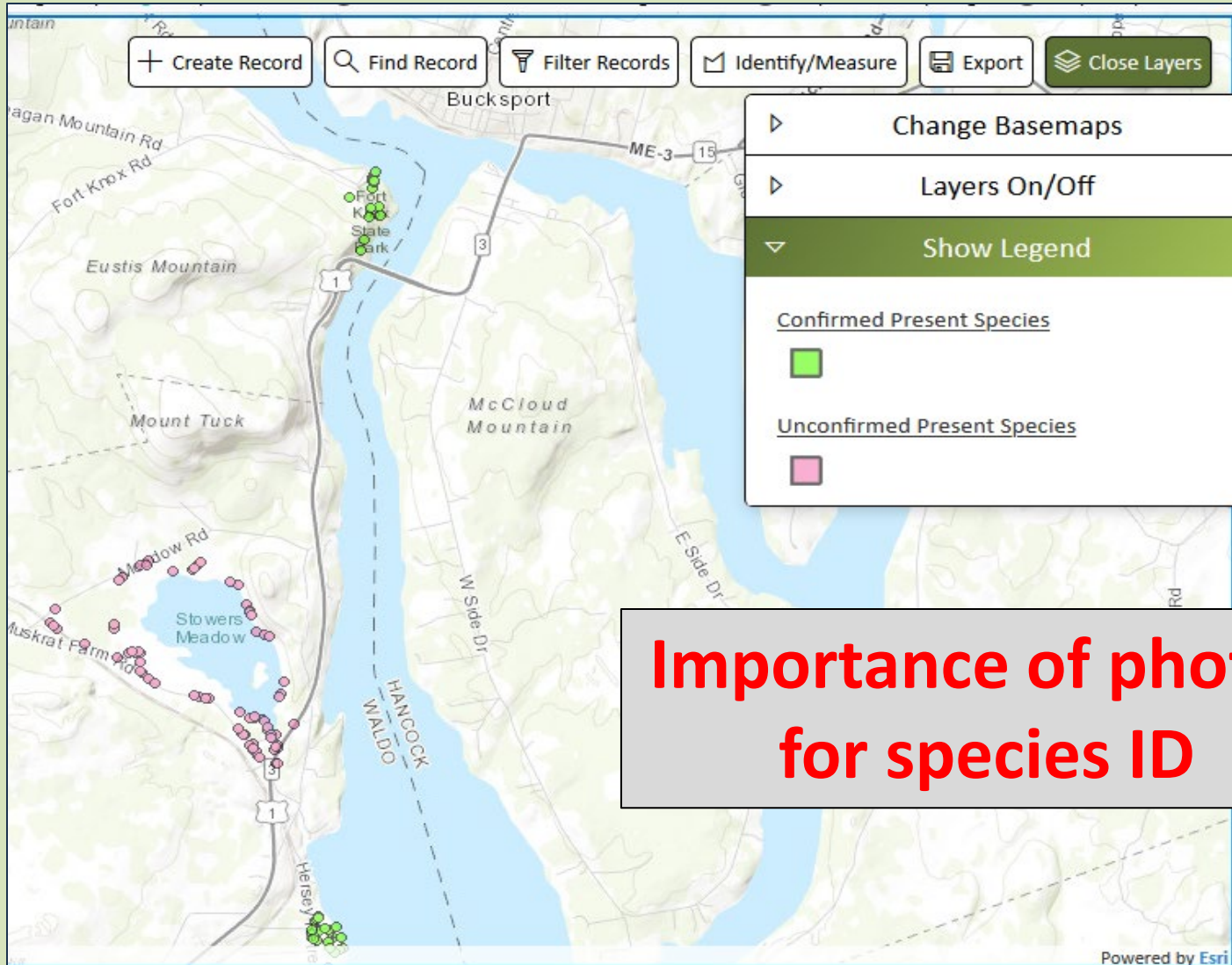
Good Photos are Essential (to get confirmed)!

- Need to be in focus and close-up

- Hand or sheet of paper behind plant provides scale and helps with focus

*But, Can Include Both!

Who is iMap for?
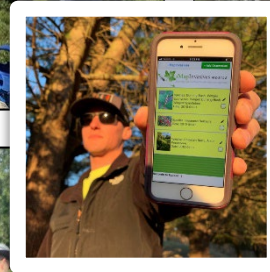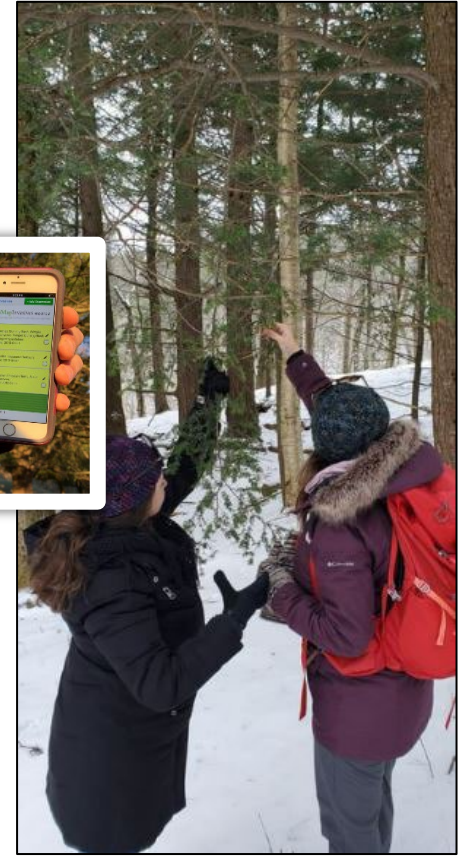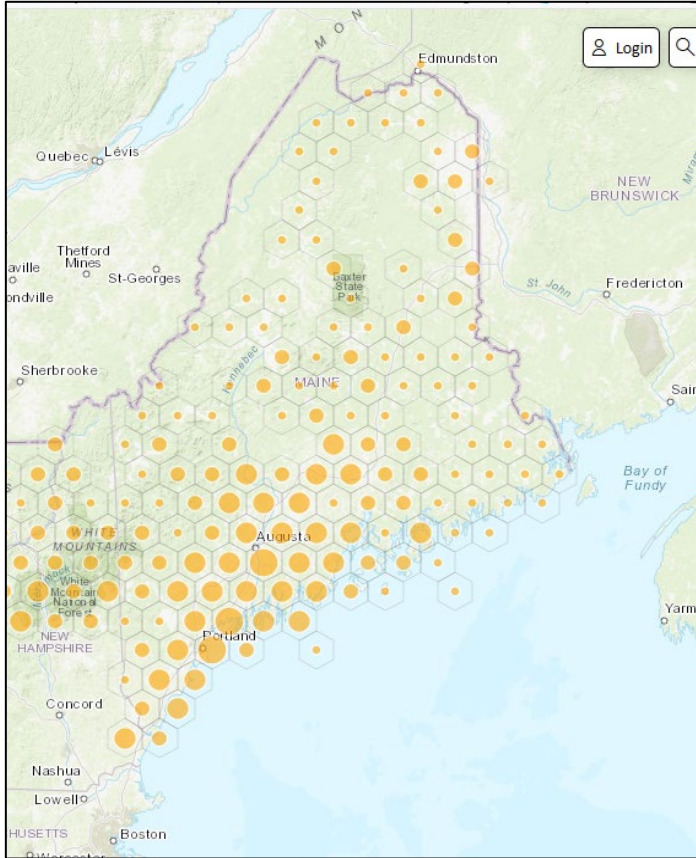
Organizations & Projects

Organizations and Projects are options for grouping your data in iMapInvasives. It is not required to join a group or project – if you are a volunteer and you have not been asked to join a project, then you do not need to join an organization or project.

Organizations

- Useful for grouping data submitted by people affiliated with an organization (e.g. staff)

- Primarily used by people working with invasive species as a part of their job

- Optional: *most iMap users do not need to join an organization, especially volunteers.*

Projects

- Great for volunteer groups and efforts

- Useful for categorizing data within organizations (e.g. for different grants or projects)

- Useful to group data from multiple organizations (e.g. a project with submissions from multiple organizations)

Joining an Organization or Project

Logged in as:
mwoneill7@gmail.com

Jurisdiction Species List

Network Species List

Projects **1***

Organizations

Persons

Your Account

Your Email Alerts

Help

Log Out

Projects

Create New Project +

Select Jurisdiction: New York

629 Projects in New York:

All Projects / Your Projects: ○ Showing All Projects

Active / Inactive: ⬤ Showing Active Projects

2 → 🔍 apipp volunteer f ✕   Sort By: Select... ▼

(1 - 1 of 1)

3 APIPP Volunteer Forest Pest Monitoring   9/1/2020

Org

Your project name

APIPP Volunteer Forest Pest Monitoring

‹ All Projects   **4** Request to join Project

Name: APIPP Volunteer Forest Pest Monitoring   Active

Description:
This project is for citizen scientists participating in APIPP's volunteer forest pest survey program. Observations (detected or not-detected) are accepted for all forest pest species.

Jurisdiction: New York

Organization: Adirondack Park Invasive Plant Program (APIPP)

Start Date: 9/1/2020

Project Cost: $0

Comments:

Not Listed

View on Map

33 Members

iMapInvasives Online Mapping Tool:
Key Functions

- Free User accounts; most features only available to registered Users

- Mobile Apps (Presence, Not Detected, Treatment)

- Browser-based (desktop) data entry for more complicated records

- Keep track of Searched Areas, Treatments, Treatment efficacy

- Email alerts
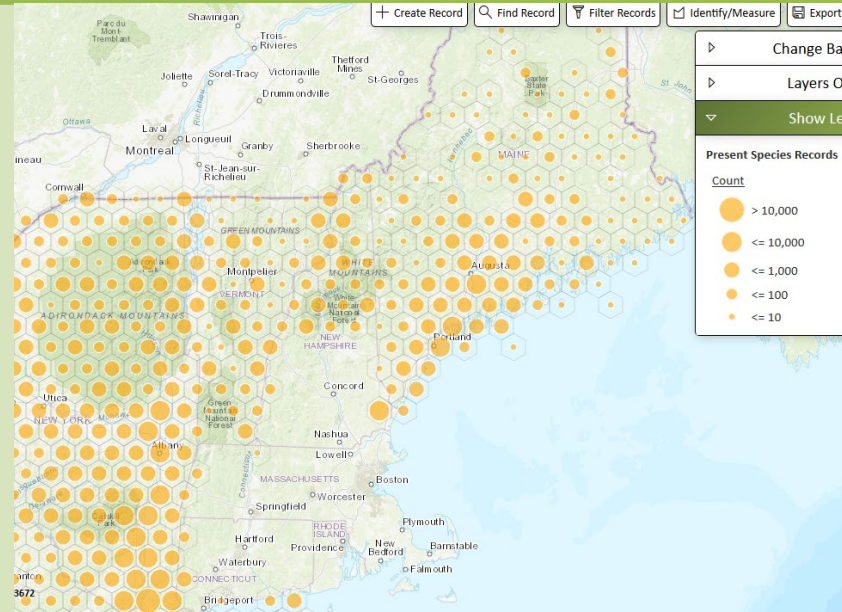
Review: mobile App vs browser interface

Mobile app: collect data
Download to your mobile phone or tablet, *no connectivity needed to collect data;* upload later on wireless (or through data plan)

Browser interface: see map, enter all record types, manage your account

Browser-based interface for your desktop, tablet, or mobile phone, *with connectivity*

Several ways for Users to gather & enter data

1. Smartphone app on phone or tablet – upload when connected

2. Collect on datasheet or notebook, enter data later

Several ways for Users to gather & enter data

3. From smartphone or tablet *browser*

- **Only if you have connectivity**

- **Can see where you are (Find me button)**

- **Create data by *drawing on screen***

iMap Invasives Mobile App Functions

	iMap Mobile App	iMap Online	iMap Survey123	iMMA
Managed By	NYNHP	NatureServe	NatureServe	NYNHP
Platform	Mobile App	Web App	Esri Survey123	Esri Collector
Presence & not-detected records	✔	✔	✔	✔
Treatment		✔	✔	✔
Lines/Polygons		✔	✔	✔
Functional without connectivity	✔		✔	✔
Useable without ArcGIS online account	✔	✔	✔	
Data upload process into iMap	Immediate	Immediate	Hourly Crosswalk	Crosswalk
Confirmation Process	iMap Online	iMap Online	iMap Online	ArcGIS Online

iMap Invasives Mobile App Training
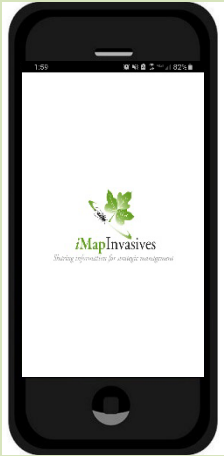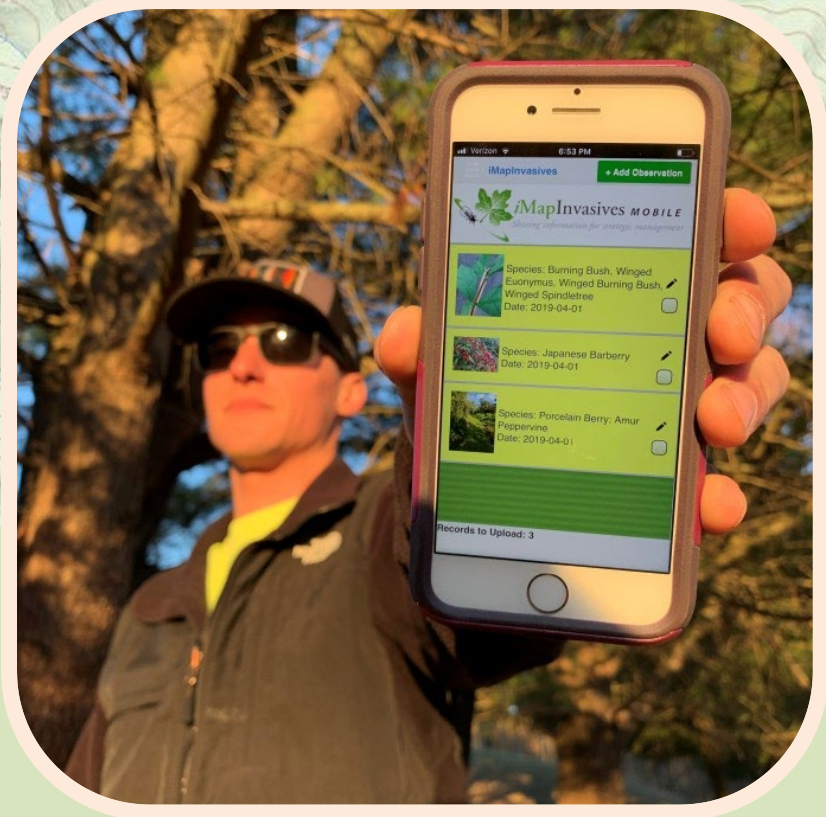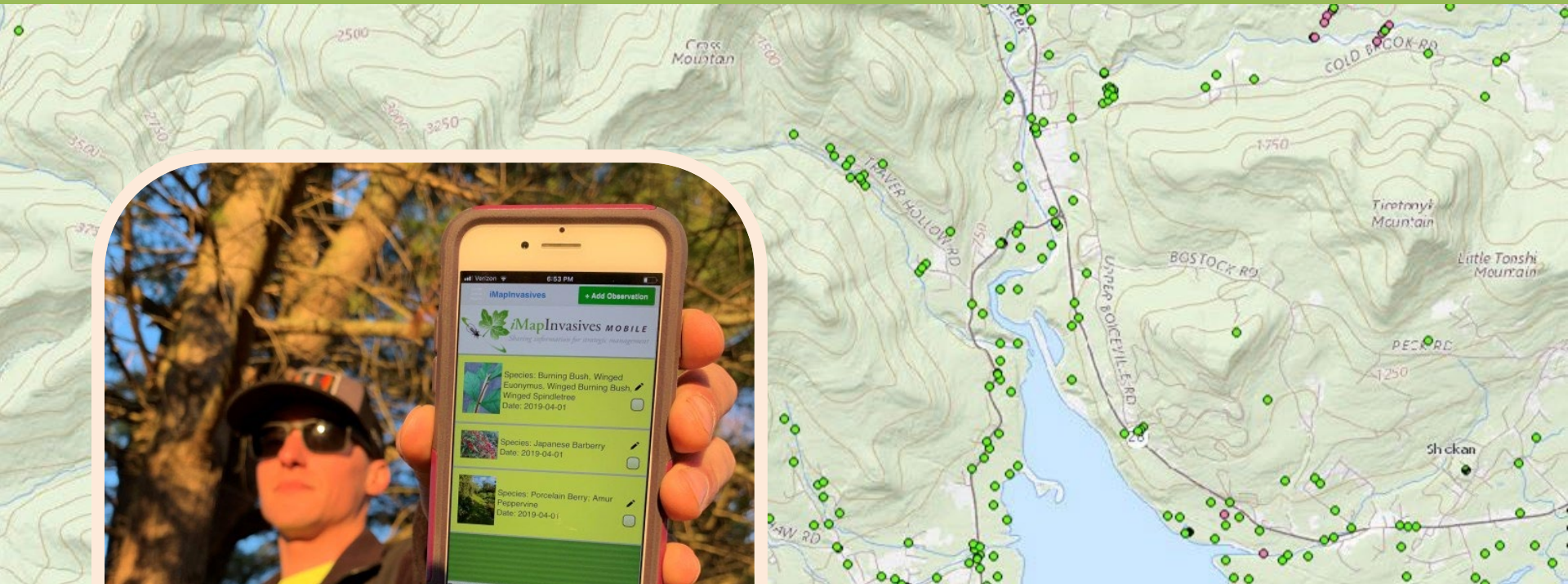
Mobile App

1. Setup Account and App — *Connectivity required*

2. Record invasive species — *Connectivity **NOT** required*

3. Upload records to iMap — *Connectivity required*

Mobile App Setup

Open app: should see this:
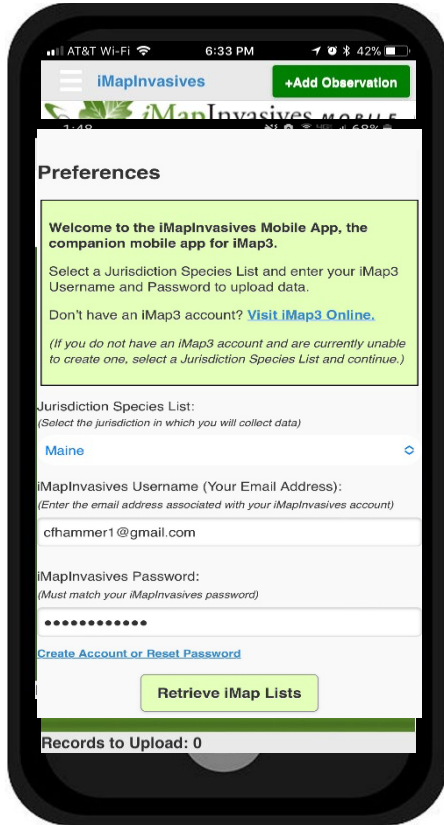
If not, then do this:
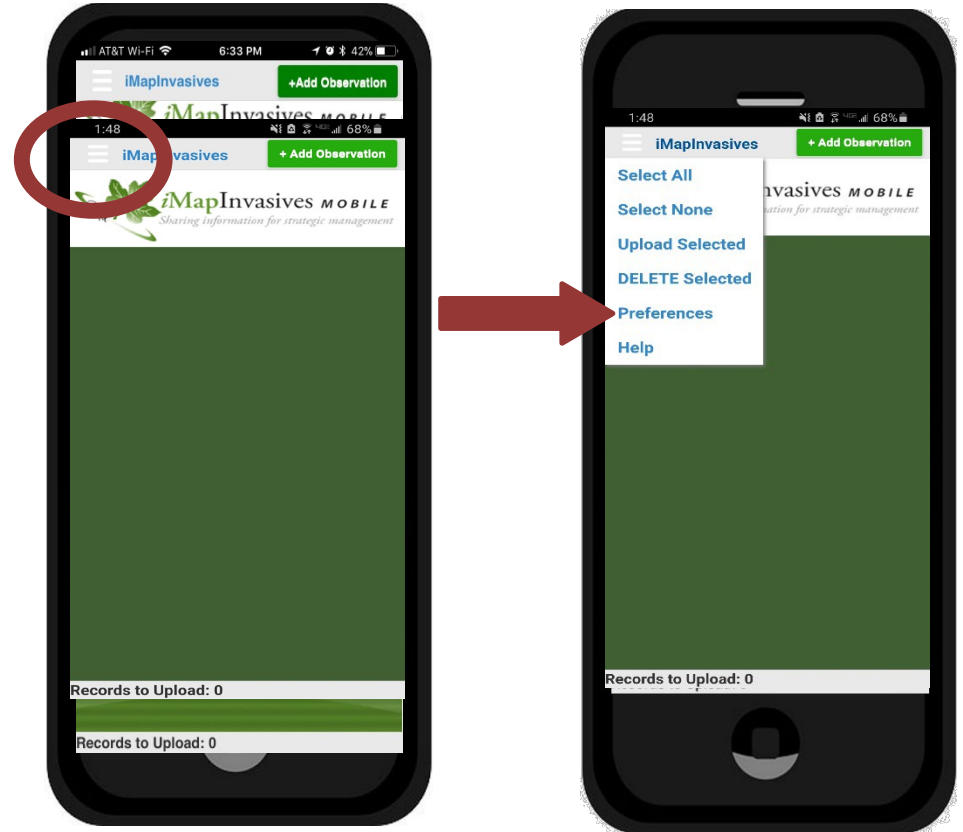
Mobile App Setup

Preferences

Jurisdiction Species List:
(Select the jurisdiction in which you will collect data)

Maine ▼

iMapInvasives Username (Your Email Address):
(Enter the email address associated with your iMapInvasives account)

emailaddress@example.com

iMapInvasives Password:
(Must match your iMapInvasives password)

••••••••••

Create Account or Reset Password

Retrieve iMap Lists

---

iMap Data Retrieval Successful

Your iMapInvasives data was retrieved successfully (which includes your Species, Project, and Organization lists).

OK

- **Username and Password Must match iMap account online**

- **Sometimes iPhone's add space after password**

- **Don't forget Jurisdiction!**

Preferences - optional

Species Name:

View lists as scientific or common names

Scientific | **Common**

Customize Species List

Optional – Make a short list of species you know, are interested in, and expect to survey for in your area

Picture quality:

25% | **50%** | 100%

Save Photos Taken In iMapInvasives App To Device Photo Library (If Permitted By Device)

Default Basemap Type:

Road | Satellite

Default Map Zoom:

12

Measurement System:

US Customary (feet/acres)

Defaults are typically fine

Select Your Species

- European Turkey Oak: Quercus cerris
- European Water Fern; European Waterclo
- European Woodwasp; Sirex noctilio
- European trout lily: Erythronium dens-can
- ☑ Fake Species (for testing): Fake Species
- False Spiraea: Sorbaria sorbifolia
- False green kyllinga; Pasture Spike Sedg
- Fanwort; Carolina Fanwort: Cabomba car
- Far-eastern smartweed: Persicaria extrem
- Feral Swine; Wild Boar: Sus scrofa

OK | Cancel

Preferences

Jurisdiction Species List:
(Select the jurisdiction in which you will collect data)

New York

iMapInvasives Username (Your Email Address):
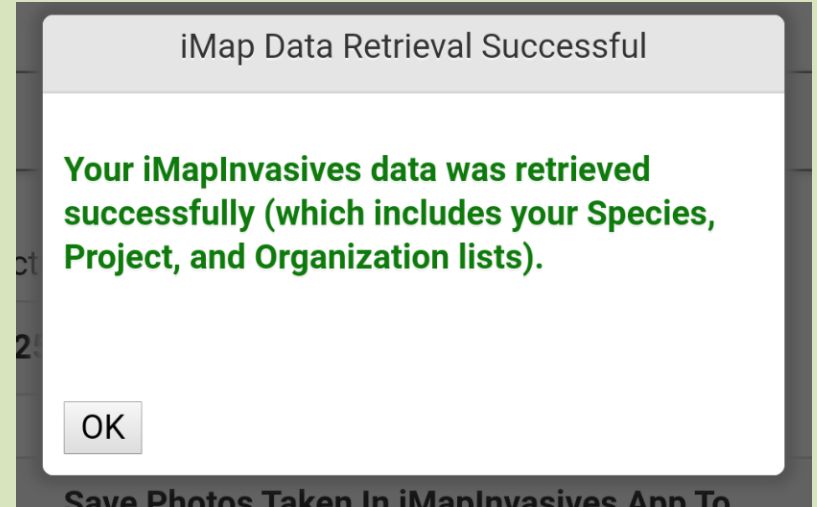*(Enter the email address associated with your iMapInvasives account)*

emailaddress@example.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)

Default Basemap Type:

Road | **Satellite**

Default Map Zoom:

14

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).

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).

☑ Show Welcome Instructions

Save | Cancel

Last iMap Lists Refresh: Jun 12, 2021

Preferences - optional

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)

emailaddress@example.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)

Default Basemap Type:

Road   Satellite

Default Map Zoom:

14

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).

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).

☑ Show Welcome Instructions

Save   Cancel

Last iMap Lists Refresh: Jun 12, 2021

---

*Select your project (optional)
Read fine print –* ==*EACH NEW RECORD*==

If your org/project is not appearing
- Join Organization or Project Online

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).

▼

To set to Default (leave blank or select default)

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).

▼

☑ Show Welcome Instructions

Save   Cancel

Save!

Last iMap Lists Refresh: Apr 9, 2019

Mobile App

1. Setup Account and App   *Connectivity required* ✓

2. Record invasive species   *Connectivity **NOT** required*
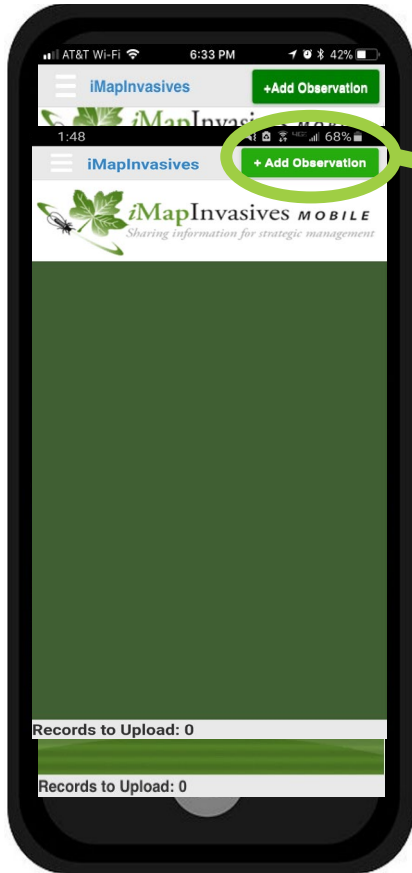
3. Upload records to iMap   *Connectivity required*

Recording an Observation

+Add Observation

- Please follow along

- Submit a record "A Fake Species"

Add Observation

Take photo with camera

Enable your custom species list

Select Species – **A Fake Species**

Select Detected or Not Detected

***New! If you select photo from library, the iMap app will pull the location and date metadata from the photo (assuming your camera is set to capture metadata, and the appropriate permissions are available

Add Observation

Uncheck to manually place pin or enter coordinates (long/lat) below

Note: Map will be blank when out of connectivity

Your location

Your coordinates: If 0,0 is displaying in the Location box, make sure your GPS is enabled on your device

Add Observation

Enter the approximate time you were searching for invasive species (very helpful)

Add any comments that may enhance the quality of your observation report

Don't forget to save your changes!

Mobile App

1. Setup Account and App   *Connectivity required* ✓

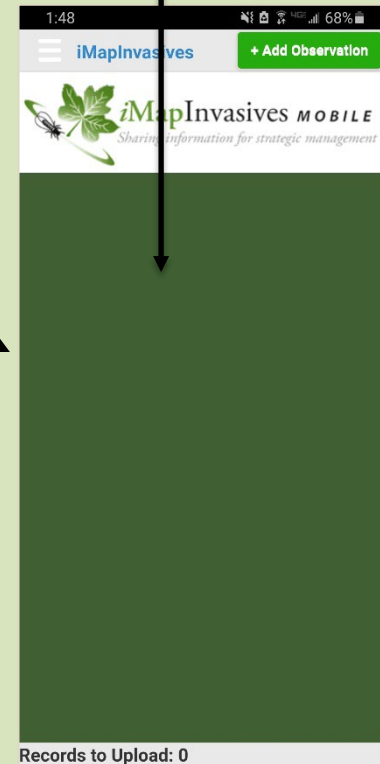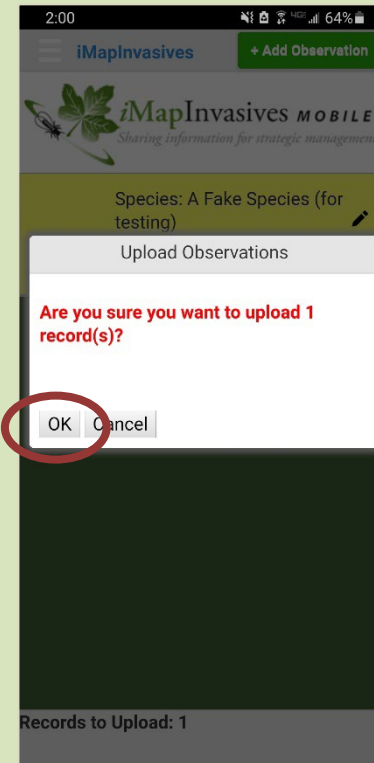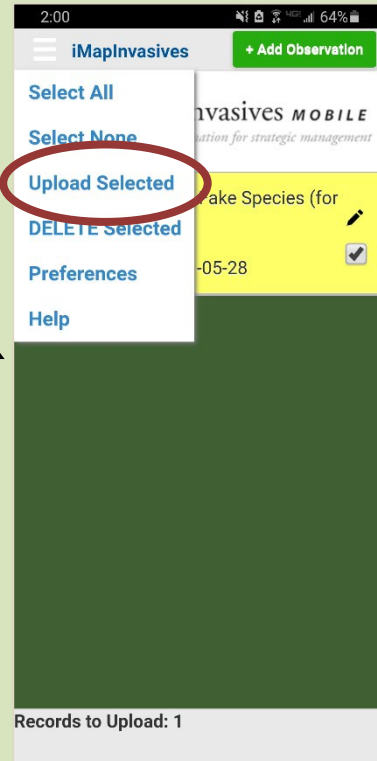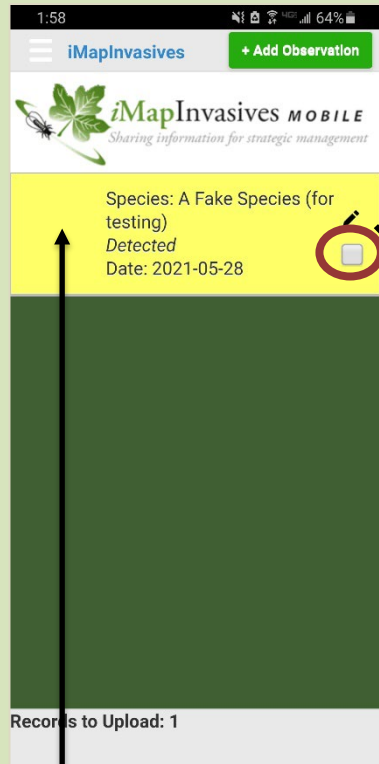2. Record invasive species   *Connectivity **NOT** required* ✓

3. Upload records to iMap   *Connectivity required*

***Last (and most important) step!

Uploading Records to iMap

Record has left phone – it is NOW in online database

Record is on your device, NOT YET in the online database

Help resources available online

iMap Network help documents
www.imapinvasives.org/help

iMap Network User Manual
www.imapinvasives.org/user-manual

New York iMap Resources – recorded webinar trainings
www.nyimapinvasives.org

Youtube: iMapInvasives NY channel

THANK YOU! .... QUESTIONS?
Chad Hammer
chad.hammer@maine.gov
287-8040