iMapInvasives Training for Lake Associations

NYSFOLA Annual Conference– May 2nd, 2023

nyimapinvasives.org
Click **Login** to create an account.
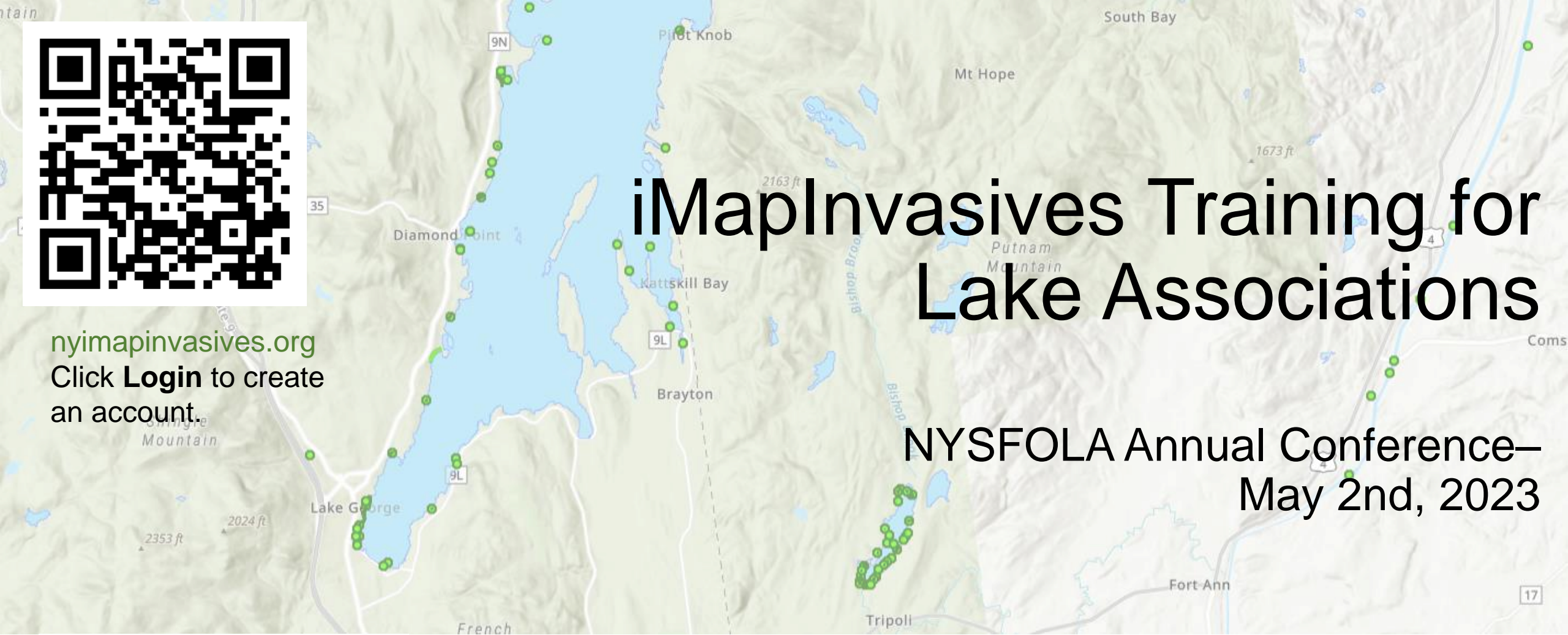
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iMapInvasives
Sharing information for strategic management
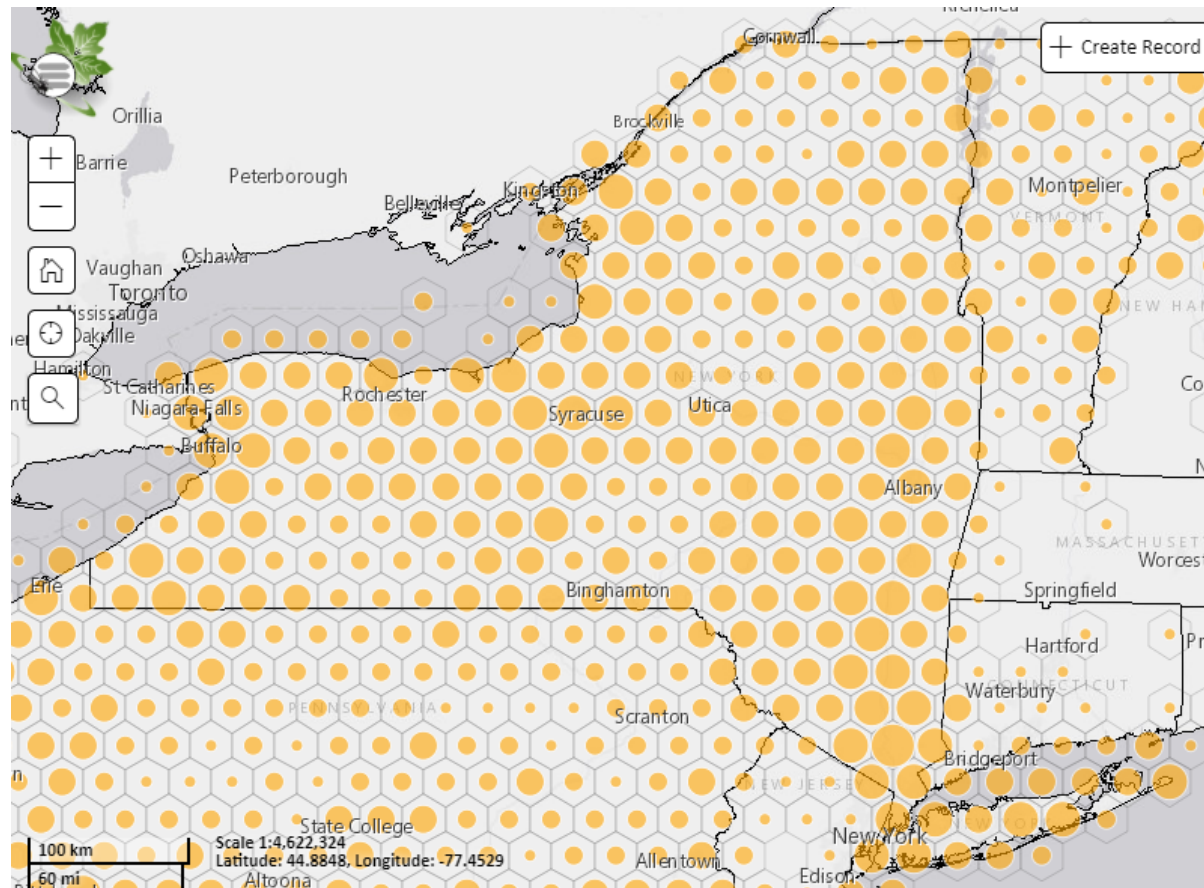
New York
Natural Heritage
Program

Agenda

1. **Intro, overview, and role of iMapInvasives**

2. iMap Online – creating an account

3. iMap Mobile App

4. Outdoor practice

Download app from Google Play or iOS App Store (search "imapinvasives")

Available on the App Store

Get it on Google play

nyimapinvasives.org Click **Login** to create an account.

Invasive Species

Invasive species are species of plants, animals, insects, and pathogens that are:

1. Non-native

2. Negatively impactful

- Harm to environment, economy, and human health
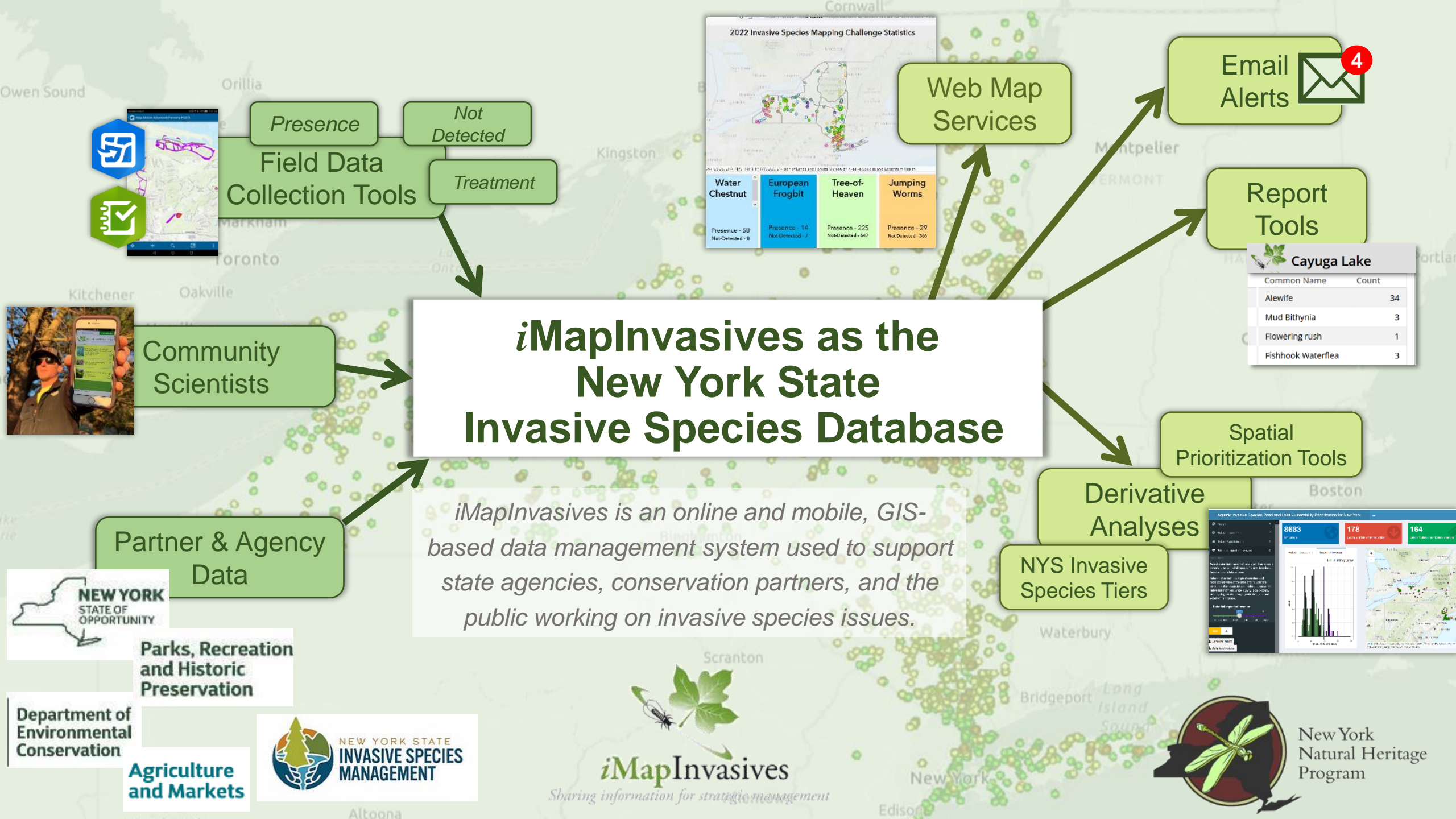

Photo from iMap record 1344606

PRISMs
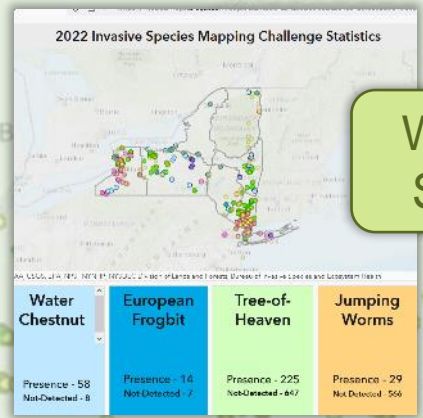
Partnership for Regional Invasive Species Management

- APIPP Adirondack Park Invasive Plant Program
- Capital Region
- CRISP Catskill Regional Invasive Species Partnership
- Finger Lakes
- Lower Hudson
- LIISMA Long Island Invasive Species Management Area
- SLELO Saint Lawrence and Easter Lake Ontario
- Western NY

Learn more: nyis.info/prisms

2022 Invasive Species Mapping Challenge Statistics

Water Chestnut	European Frogbit	Tree-of-Heaven	Jumping Worms
Presence - 58 Not-Detected - 8	Presence - 14 Not-Detected - 7	Presence - 225 Not-Detected - 647	Presence - 29 Not-Detected - 566

Presence

Not Detected

Field Data Collection Tools

Treatment

Web Map Services

Email Alerts

Report Tools

Cayuga Lake

Common Name	Count
Alewife	34
Mud Bithynia	3
Flowering rush	1
Fishhook Waterflea	3

*i*MapInvasives as the New York State Invasive Species Database

Community Scientists

Partner & Agency Data

iMapInvasives is an online and mobile, GIS-based data management system used to support state agencies, conservation partners, and the public working on invasive species issues.

Spatial Prioritization Tools

Derivative Analyses

NYS Invasive Species Tiers

NEW YORK STATE OF OPPORTUNITY

Parks, Recreation and Historic Preservation

Department of Environmental Conservation

Agriculture and Markets

NEW YORK STATE INVASIVE SPECIES MANAGEMENT

*i*MapInvasives
Sharing information for strategic management

New York Natural Heritage Program

Data sources

Presences by Data Entry Method
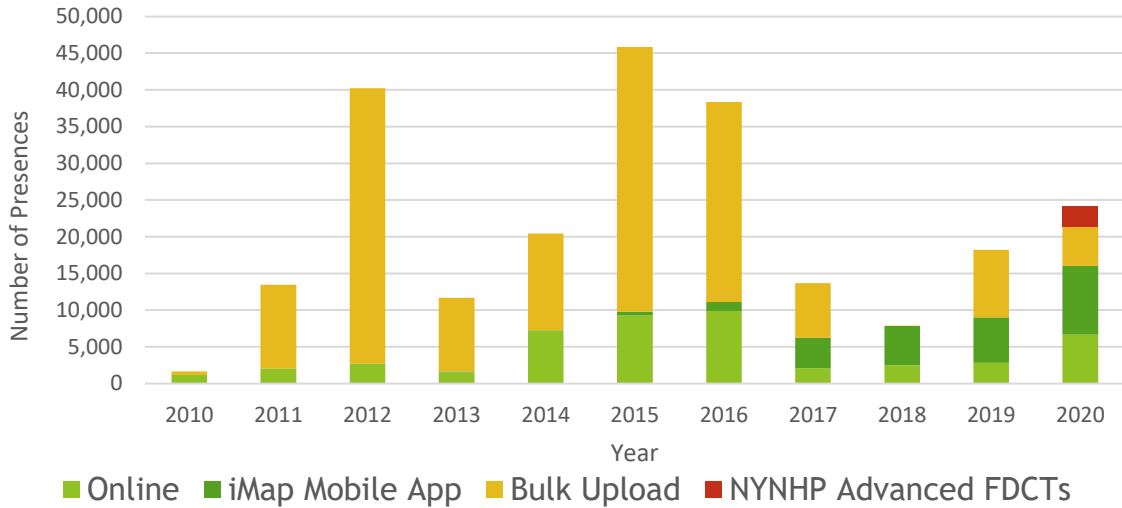
- ❖ **2010-2016**: Uploads of existing data from partner organizations

- ❖ **Now**: Data entered by community scientists & professionals ***in real time***
  - Species ID confirmed by experts

Nyimapinvasives.org

Create Account/Login

imapinvasives.natureserve.org

Login (if you have account)

Create Account

Check email for link ("click here"), click open the User Agreement.

Read User Agreement and accept

Login

iMap Online Interface

Main Menu:
- Set up email alerts

Export/Report Tool
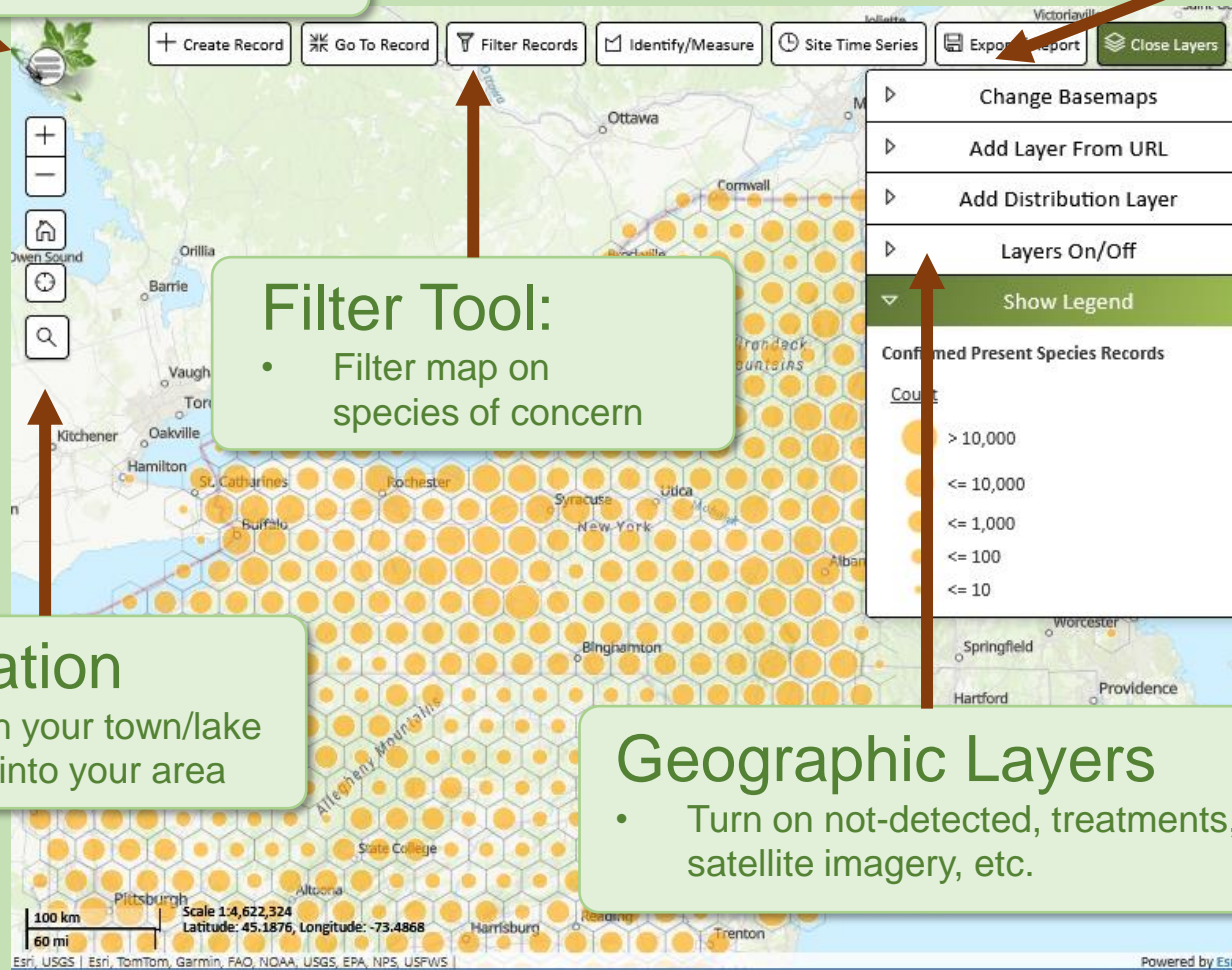- Create species list for your waterbody

Filter Tool:
- Filter map on species of concern

Navigation
- Search your town/lake
- Zoom into your area

Geographic Layers
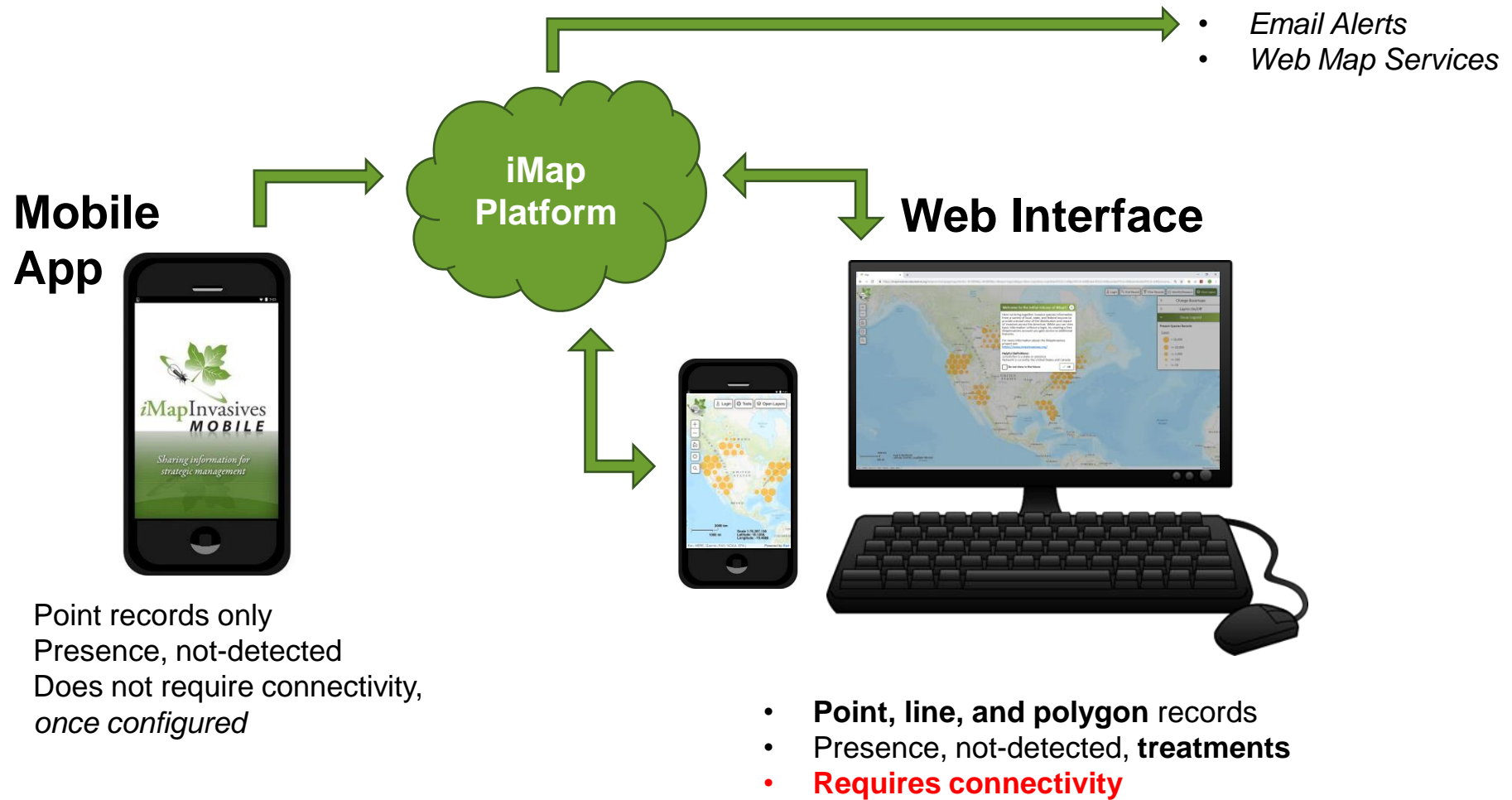- Turn on not-detected, treatments, satellite imagery, etc.

iMap Data Inputs and Outputs

Email Alerts
Web Map Services

iMap Platform

Mobile App

Web Interface

- Point records only
- Presence, not-detected
- Does not require connectivity, *once configured*

- **Point, line, and polygon** records
- Presence, not-detected, **treatments**
- **Requires connectivity**

Mobile App

Download app from Google Play or iOS App Store (search for "imapinvasives")

Please follow along

Questions? Chatbox

Good Photos are Essential!

- Need to focused and close-up enough

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

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

Mobile App Setup

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

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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

Preferences - optional

View lists as scientific or common names

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

Defaults are typically fine

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

***Note: 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

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

iMap 3 Project: (Optional)

My Default Project ▾

iMap 3 Organization: (Optional)

My Default Organization ▾

Time Searched (in minutes):

Observation Comments:

Save   Cancel

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!

Take Photo Using Camera

Select Photo From Library

Species: ☑ Custom List

None Selected ▾

○ Species Detected

○ Species Not Detected

Date:

04/09/2019

☑ GPS: Uncheck to manually move location

Road ▾

Viewing the map requires an internet connection. If you do not see the map check your connection and restart iMapInvasives Mobile. GPS will work without the map.   GPS Accuracy: 7461 m

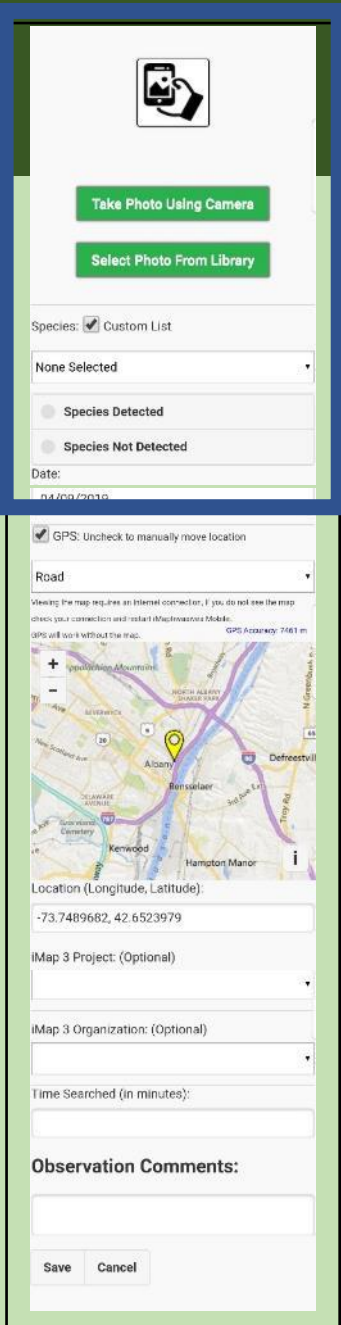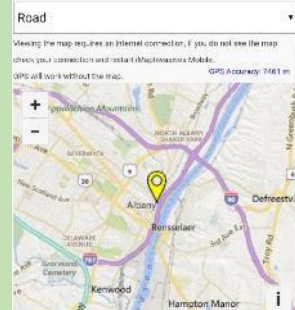Location (Longitude, Latitude):

iMap 3 Project: (Optional)

▾

iMap 3 Organization: (Optional)

▾

Time Searched (in minutes):

Observation Comments:

Save   Cancel

Mobile App

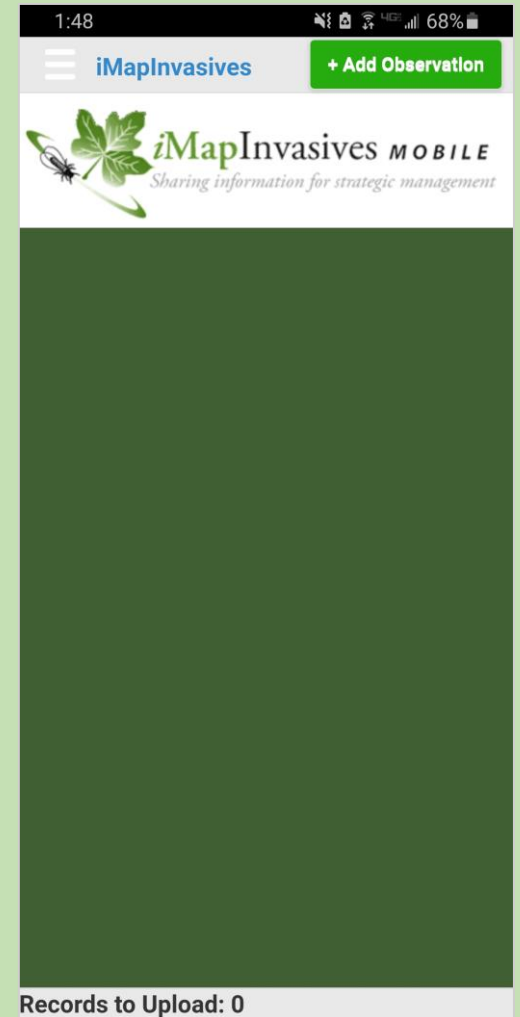1. Setup Account and App   *Connectivity required* ✓

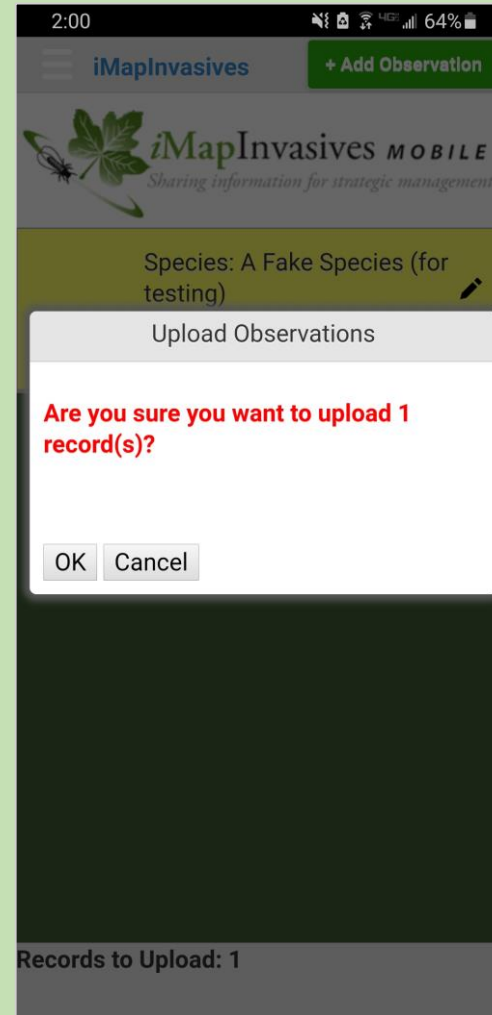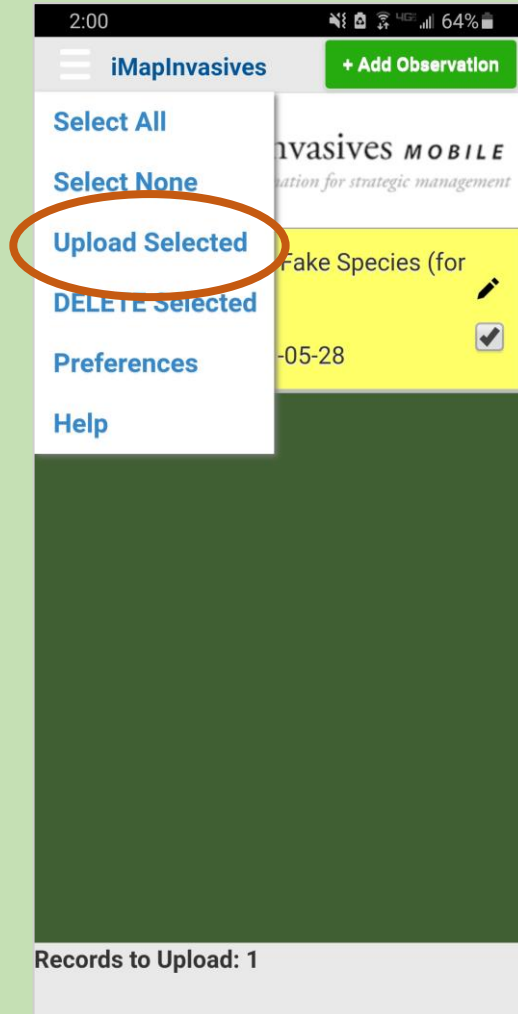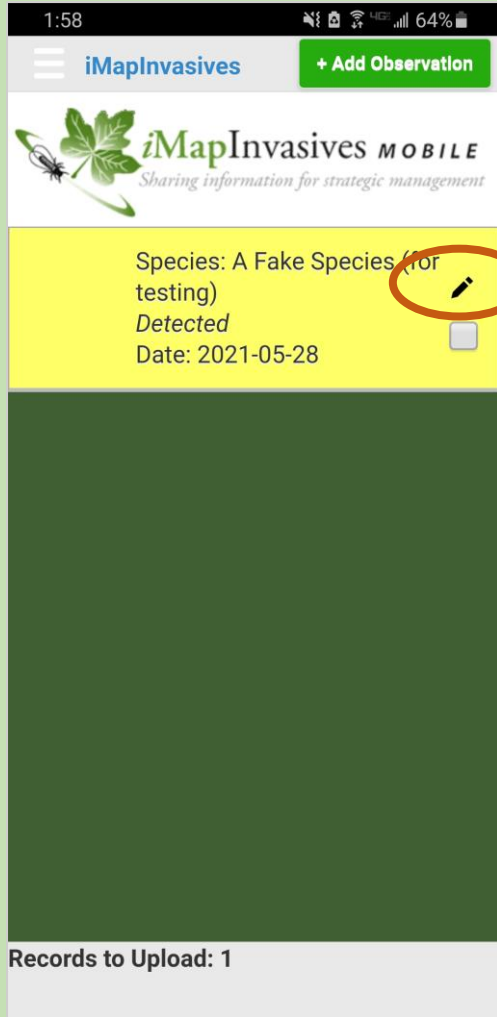2. Record invasive species   *Connectivity* **NOT** *required* ✓
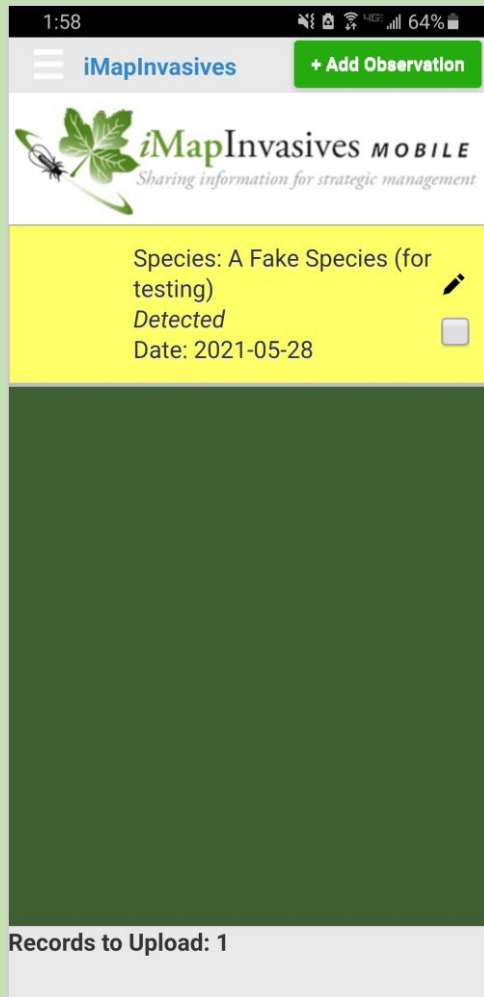
3. Upload records to iMap   *Connectivity required*

Uploading Records

Uploading records

Record is on your device,
NOT in the online database

Record has left phone,
Is in online database

Additional Functionality

1. Setting up Email Alerts for species/areas of interest

2. Viewing distribution data in the online interface

3. Advanced data collection (polygons, treatments, etc.)

4. Species List by Waterbody reports, Approaching Region Species list

Learn more: **NY**imapinvasives.org/training

- Monthly iMapInvasives Webinar (last Wed. of month, 1pm)

- Other iMap trainings occurring across the state

- Self guided training (tutorial videos, etc.)

Any questions?

Join us outside!

Self-guided training materials, and upcoming webinars and events:
nyimapinvasives.org/training

New York Natural Heritage Program

iMapInvasives

Sharing information for strategic management

 @nyimapinvasives

Email: imapinvasives@dec.ny.gov
Website: nyimapinvasives.org