



# *iMap Invasives* : An online invasive species mapping tool for land managers and citizen scientists

This guide has been developed as a visual step-by-step aid for new users of *iMap Invasives*. For additional guidance, please visit the **Resources** tab on the home page or contact database administrator at .

## What is *iMap Invasives*?

- An online, interactive invasive species mapping tool for Saskatchewan
- Stores occurrence, treatment, and survey records for non-native animal and plant species
- Facilitates Early Detection/Rapid Response through email alerts
- Data can be submitted through bulk uploads or quality-controlled online submissions

*iMapInvasives* provides six types of data:

- 
1. **Observation** – *who, what, when, where*
  2. **Assessment** – *detailed information about an observation*
  3. **Survey** – *planned search of an area to determine presence or absence of specific invasive species*
  4. **Treatment** – *information about treatment*
  5. **Infestation** – *information about a population*
  6. **Project** – *a way to group data*
- 
- 
- 
- 

## Who is *iMap Invasives* for?

- Land Managers (provincial, local, & community agencies, NGOs): explore existing data & manage your data
- Researchers: access current and historic non-native species occurrence, treatment, and survey records
- Citizen Scientists: become a registered user and enter your invasive species sightings
- Educators: engage students in science lessons while increasing the coverage of the database

## How will *iMap Invasives* support my work?

- Free access to a province-wide database where you can store and manage your data
- Stay connected! Keep up-to-date on other invasive species initiatives in the province
- Perform GIS spatial analyses and query data by species, location, organization, *etc.*
- Set up email alerts for your area and/or species of interest
- Produce customizable maps and reports

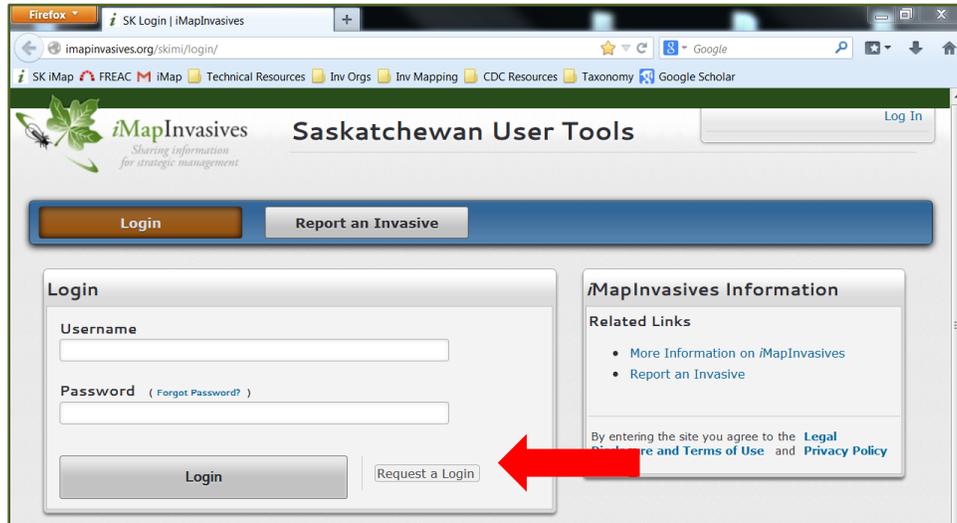


## Step 1: Request an account

To request an iMap Invasives user account please visit:

[http://login.imapinvasives.org/skimi/request\\_login\\_account/](http://login.imapinvasives.org/skimi/request_login_account/) and click on the **Request a Login** link.

This will redirect you to our **Request a Login** form.



Firefox SK Login | iMapInvasives  
imapinvasives.org/skimi/login/

SK iMap FREAC iMap Technical Resources Inv Orgs Inv Mapping CDC Resources Taxonomy Google Scholar

iMapInvasives Sharing information for strategic management

Saskatchewan User Tools Log In

Login Report an Invasive

Login

Username  
Password (Forgot Password?)

Login Request a Login

iMapInvasives Information

Related Links

- More Information on iMapInvasives
- Report an Invasive

By entering the site you agree to the [Legal Notice](#) and [Terms of Use](#) and [Privacy Policy](#)

### Request a Login

First Name\*:

Last Name\*:

Organization\*:

E-mail Address\*:

Describe your interest in the iMapInvasives Project:

Do you want to receive information on training opportunities? :

What is your general area of interest? :

How did you hear of the iMapInvasives web site? :

Are you over 13 years of age? :

An email will be sent as soon as our staff reviews your request.

**If you are on a Smartphone now**, and wish to report an invasive species, please take a photo and note the location. You will be able to add the report once you receive a data entry account for iMapInvasives.

## Entering Your Observation Record

Once logged into iMapInvasives, <http://login.imapinvasives.org/skimi/>, you will be taken to the home page. Under the **Enter Data** heading, left-click on the link **Observation** and follow the step-by-step data entry process.

The screenshot shows the iMapInvasives Saskatchewan Administrator Tools interface. At the top, it says "Welcome back, Ahdia (ahdhassan)" and "2:01". Below the navigation bar, there are four main sections: "Enter Data", "View the Map", "View Table", and "Query and Reports". A red arrow points to the "Observation" link in the "Enter Data" section. Below these sections is a "My Personal Information" section with "My Profile" and "E-Mail Alerts" options.

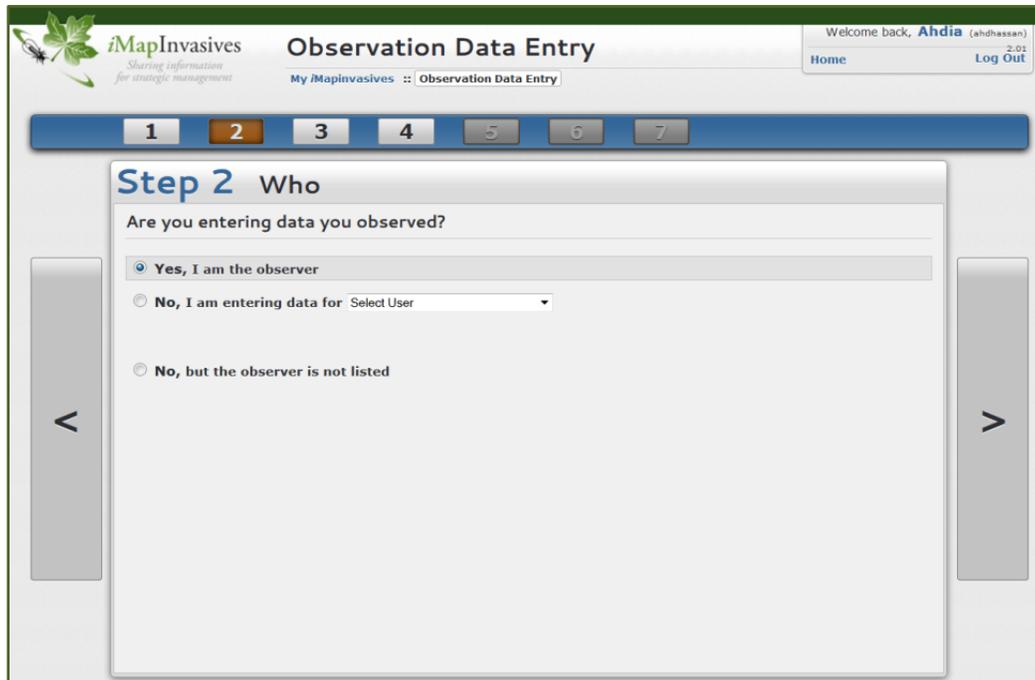
### Step 1: Photo

Drag and drop any photos or sketch maps associated with your observation. You do not have to upload a photo (simply click on the arrow and skip to Step 2: Who)

The screenshot shows the "Observation Data Entry" page, Step 1: Photos. It features a progress bar with steps 1 through 7, where step 1 is highlighted. The main content area is titled "Step 1 Photos (jpg files only. Do not drag from an open document like Word or)". It contains three sections: "Closeup Photo", "Infestation Photo", and "Scale Photo". Each section has a "No image" placeholder, a "Drop New Photo Here" area, and a "Browse..." button. Below each photo section is a "Credits" field.

## Step 2: Who?

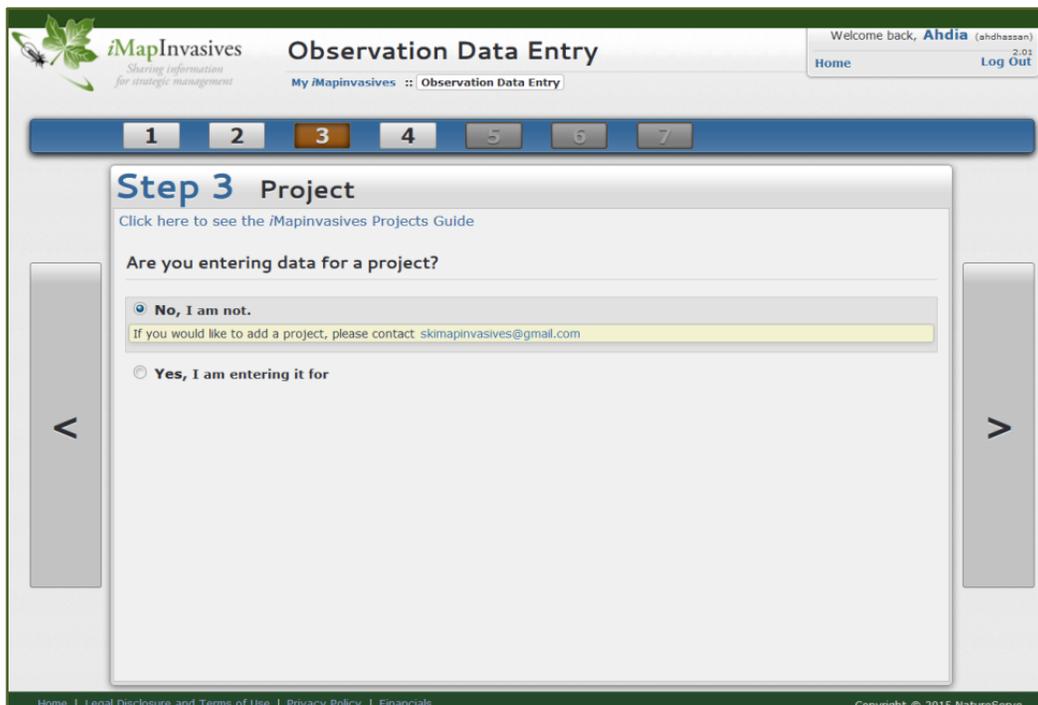
You can find the location where you observed the infestation/occurrence using GPS coordinates, a street address



The screenshot shows the iMapInvasives Observation Data Entry interface. At the top, there is a navigation bar with steps 1 through 7, where step 2 is highlighted. The main content area is titled "Step 2 Who" and contains the question "Are you entering data you observed?". Below this question are three radio button options: "Yes, I am the observer" (which is selected), "No, I am entering data for" followed by a "Select User" dropdown menu, and "No, but the observer is not listed". The interface includes a logo for iMapInvasives, a user greeting "Welcome back, Ahdia (ahdhassan)", and a "Log Out" button.

## Step 3: Project?

Is your data a part of an iMap Project? If so, select the project.



The screenshot shows the iMapInvasives Observation Data Entry interface at Step 3: Project?. The navigation bar now highlights step 3. The main content area is titled "Step 3 Project" and contains a link "Click here to see the iMapInvasives Projects Guide". Below this is the question "Are you entering data for a project?". There are two radio button options: "No, I am not." (which is selected) and "Yes, I am entering it for". A yellow highlighted text box below the "No, I am not." option says "If you would like to add a project, please contact skimapinvasives@gmail.com". The interface includes the same logo, user greeting, and "Log Out" button as in the previous screenshot.

#### Step 4: What?

Enter Select the species that you observed and click next.

**iMapInvasives** Sharing information for strategic management  
**Observation Data Entry**  
Welcome back, **Ahdia** (ahdhassan) 2.01  
Home Log Out

My iMapInvasives :: Observation Data Entry

1 2 3 4 5 6 7

**S**  
Birdsfoot trefoil  
Black Henbane  
Black Medic  
Black Swallow-wort  
Bladder Campion, Maiden's-tears  
Blue Lettuce  
Bluebur  
Brazilian Elodea, Waterweed  
Bull Thistle  
**Canada Thistle**  
Caragana, Siberian Peashrub  
Chickpea, Milkvetch, Cicer Milkvetch  
Cleavers, Catchweed Bedstraw  
Common Barberry  
Common burdock  
Common Crupina  
Common Dandelion  
Common Frogbit  
Common Hound's-tongue  
Common Mullein  
Canada Thistle

What (Species)

By Scientific Name  
Cirsium arvense

Image Credit  
Leslie J. Mehrhoff, University of Connecticut, Bugwood.org

Further Species Information

Show Full Image

Home | Legal Disclosure and Terms of Use | Privacy Policy | Financials  
Copyright © 2015 NatureServe.

#### Step 5: When?

Scroll through the Calendar using the arrow (on the top left corner) and select the date you observed the infestation.

**iMapInvasives** Sharing information for strategic management  
**Observation Data Entry**  
Welcome back, **Ahdia** (ahdhassan) 2.01  
Home Log Out

My iMapInvasives :: Observation Data Entry

1 2 3 4 5 6 7

**Step 5** When

When was the species observed?

Select a date  
2015-01-09

January 2015

Mo	Tu	We	Th	Fr	Sa	Su
30	31	1	2	3	4	
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1
2	3	4	5	6	7	8

Home | Legal Disclosure and Terms of Use | Privacy Policy | Financials  
Copyright © 2015 NatureServe.

## Step 6: Where?

You can find the location where you observed the infestation/occurrence using GPS coordinates, a street address, or the lake name by typing them into the appropriate search bars. You can also use the **zoom icon** on the top left corner of the map

*\*Note: Both maps are showing the same area, but at different spatial scales.*

The screenshot shows the 'Step 6 Where' section of the iMapInvasives Observation Data Entry form. At the top, there are navigation tabs numbered 1 through 7, with tab 6 highlighted. Below the tabs, the 'Search by Coordinate' section includes a dropdown menu set to 'Lat / Lon Decimal' and an 'Enter Coordinate' section with input fields for 'Longitude' (-106.38889) and 'Latitude' (53.92569), and an 'Update Map' button. A search bar contains the text 'prince albert national park' and a 'Go' button. Below the search bar, a message reads 'Drag Map to Update Location. (Coordinates are updated after each map movement.)'. Two maps are shown side-by-side: a satellite map on the left and a standard map on the right, both showing the location of Prince Albert National Park. Navigation arrows are visible on the left and right sides of the map area.

## Step 7: Submit Observation

You're done entering your observation record! If you would like to submit an Assessment (which contains a more detailed description of the observation) select on that link now.

The screenshot shows the 'Step 7 Submit Observation' section of the iMapInvasives Observation Data Entry form. At the top, there are navigation tabs numbered 1 through 7, with tab 7 highlighted. Below the tabs, the 'Observation Information' section includes a message: 'Click on the ID to view the record and to access additional fields; Also, you may edit the record until it is confirmed.' Below this message, the ID 'SK-3968U' is displayed in a yellow highlighted box. Three buttons are visible: 'Submit Assessment\*' (with a red arrow pointing to it), 'View Observation on Map', and 'Submit Another Observation'. At the bottom, a reminder message reads: '\*Reminder: This is the ONLY opportunity to submit an Assessment Record. It is recommended that you add an Assessment Record now to edit at any time in the future (desktop computer interface recommended for editing).'.

## Setting Up Email Alerts

Email alerts allow users to be notified of new, confirmed species occurrences. Email alerts are a great way to stay informed and Users can set up multiple emails alerts.

Click on the link **Manage My Alerts** link found on the Home Page.

The screenshot shows the iMapInvasives Saskatchewan Administrator Tools interface. The user is logged in as Ahdia (ahdhasan). The main navigation bar includes 'My iMapInvasives', 'Resources', 'Data Management', and 'System Management'. The content area is divided into four columns: 'Enter Data' (with sub-links for Observation, Survey, Treatment, and Infestation Management), 'View the Map' (with sub-links for 'View the Map' and 'Not using a high-speed internet connection?'), 'View Table' (with sub-links for All Observations, Surveys, Treatments, Infestation Management, Assessments (Animals, Insects, Plants), and IPMDAT Shared Results), and 'Query and Reports' (with sub-links for Custom Observation Query, View Report for All Data, View Admin Summary Report, View Infested Lake Report, and View Infested Lake Report with Observations). The 'My Personal Information' section at the bottom includes 'My Profile' (Edit My Profile, Change my Password) and 'E-Mail Alerts' (Manage my Alerts), with a red arrow pointing to the 'Manage my Alerts' link.

Click on the link to **Add New Alert**

The screenshot shows the Alerts Table page. The header includes 'Alerts Table' and an 'Add New Alert' button, with a red arrow pointing to it. Below the header is a note: 'Note: Alerts are only checked against confirmed observations. Alerts are automatically run and sent nightly.' There is a 'Create a New Alert' button and a search bar. The table has columns: ID, Alert Type, Geography, Species, Alerts Sent, Username, Additional Email, Created, and Active. The table currently shows 'No records returned'. At the bottom, there is a 'Download Table as CSV' button and a pagination control showing '0 - 0 of 0 results'.

Select options from the dropdown menus to customize your email alerts based on your species of interest and area of interest. Once completed, click **Create Alert**.

## Alert Information New Record

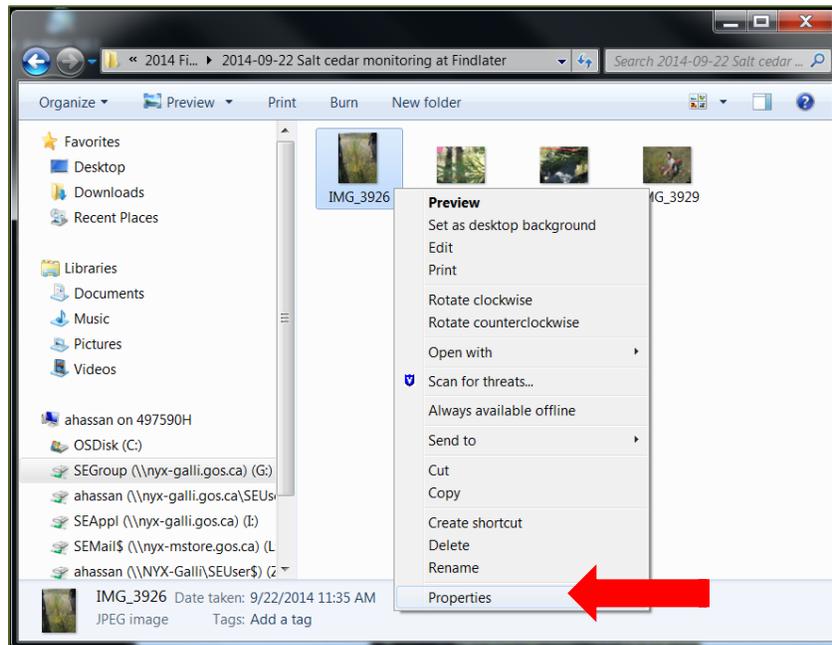
Note: Once an alert is created, it cannot be edited (but it can be deactivated)

### Basic

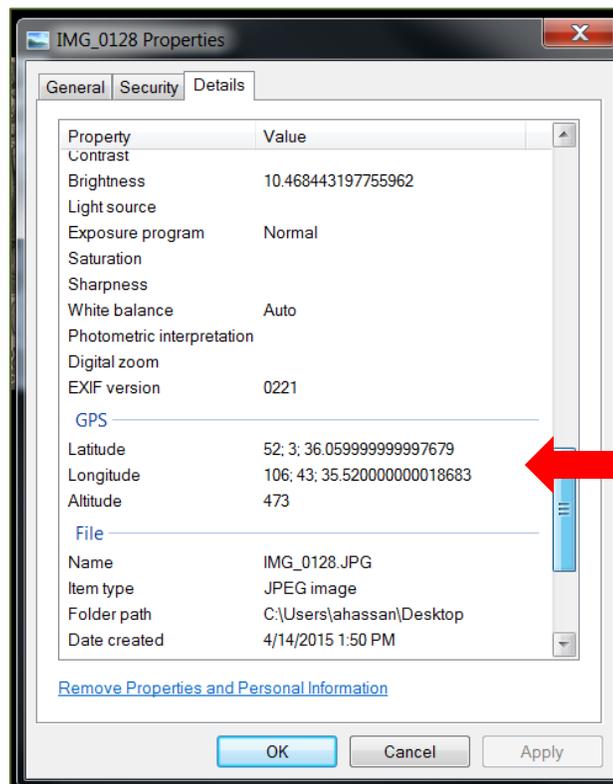
Alert type	Early Detection	?
Geography Type	SWA_Watersheds	?
Geography Name	Eagle Creek	?
Buffer Distance (meters)	<input type="text"/>	?
Species By	Species Name	
Species Name	Dreissena bugensis	
Alerts requested	<input type="text" value="3"/> (Number of observations that will trigger alert. Limit 10)	?
# of Observations	0	
Additional Email Contact	<input type="text" value="additional_email@gmail.com"/>	
Active	True	

## Getting Locational Information from Geo-Referenced Photos

1. Once you have your photo saved onto your computer or smartphone, right click on your photo file and left-click **Properties**.



2. In the **Properties** window, select the **Details** tab, and then scroll down until you find your **GPS** data. Here you will find the latitude and longitude of your photo. Here, the latitude and longitude are displayed as *Degrees, Minutes, Decimal Seconds*.



3. Copy down the latitude and longitude data, or have it on your computer so you can view it while you input your data onto iMap Invasives.
4. Chose the format of your locational data be selecting from the **Search by Coordinate** dropdown menu.
  - It is important that we select the correct format of our locational data from the **Search by Coordinate** dropdown menu.

*Note: latitude and longitudinal data can be shown in a variety of styles. Below are some examples to help familiarize you with the different formats you might encounter:*

<i>Decimal Degrees:</i>	<i>45.3772</i>
<i>Degrees, Decimal Minutes:</i>	<i>45 22.6333</i>
<i>Degrees, Minutes, Decimal Seconds:</i>	<i>45 22 38.1</i>

The screenshot displays the 'Observation Data Entry' interface. At the top, there is a navigation bar with steps 1 through 7, where step 6 is highlighted. The main content area is titled 'Step 6 Where' and features a 'Search by Coordinate' dropdown menu. The dropdown menu is open, showing options: 'Lat/Lon Decimal', 'Lat/Lon Degrees Minutes Seconds', 'Lat/Lon Degrees and Decimal Minutes', 'UTM 12', 'UTM 13', and 'UTM 14'. The 'Lat/Lon Decimal' option is selected. To the right of the dropdown, there are input fields for 'Enter Coordinate', 'Longitude' (with the value -105.92927), and 'Latitude' (with the value 54.47111). There are 'Update Map' and 'Go' buttons. Below the search fields, there is a map area with the instruction 'Drag Map to Update Location. (Coordinates are updated after each map movement.)'. The map shows a satellite view of a region with a blue dot indicating the current location. The map is surrounded by navigation controls (arrows and zoom in/out buttons). The footer contains links for 'Home', 'Legal Disclosure and Terms of Use', 'Privacy Policy', and 'Financials', along with a copyright notice for 2015 NatureServe.