Wildlife Tree Stewardship Atlas (WiTS), Downloading the ArcGIS Survey123 App (S123) and Set-up Instructions

Open your mobile device's web browser and go to
http://arcg.is/jCey8 or use the
QR code to the right. You will
get screen **1**. For an iOS device.
Screen **2** shows the Apple App Store link.
Screen **3** shows where to tap to begin the download.
Screen **4** shows a link to open S123.
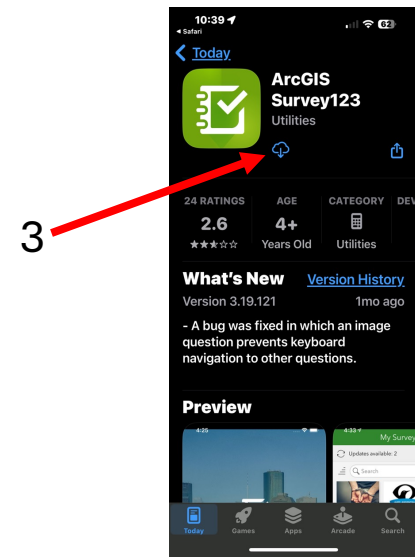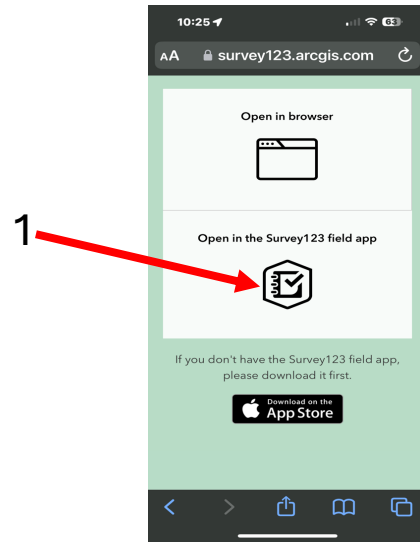Screen **5** shows the link to start S123.
BUT If you tap the link in screen **6** after A123 starts,
you will see screen **7** which requires a user login,
this is a dead end.
You still need the WiTS S123 survey form.
To get the WiTS S123 survey form, shut down
the S123 completely. When closed you should see the something
Similar to screen **8** on the next page.

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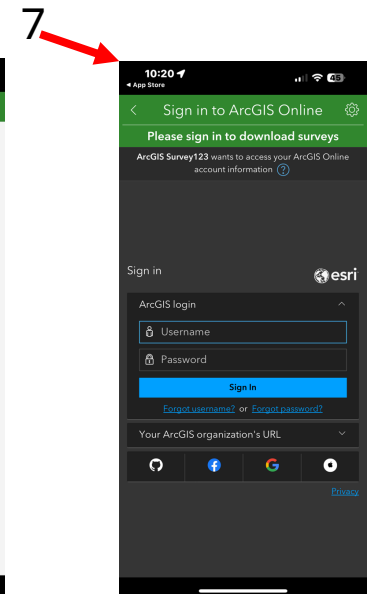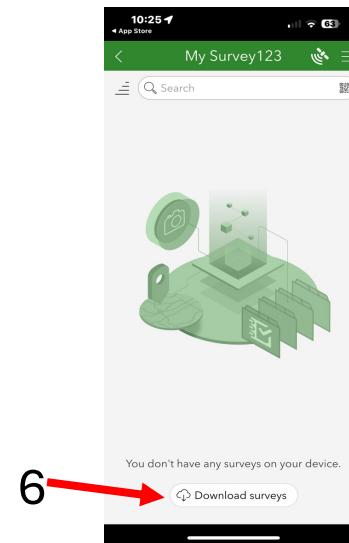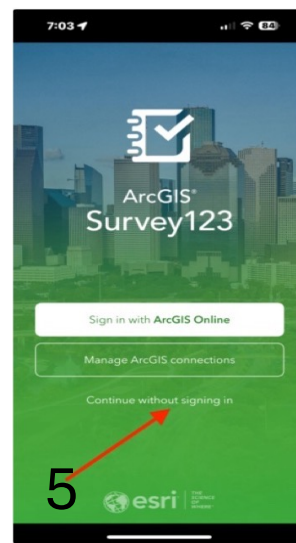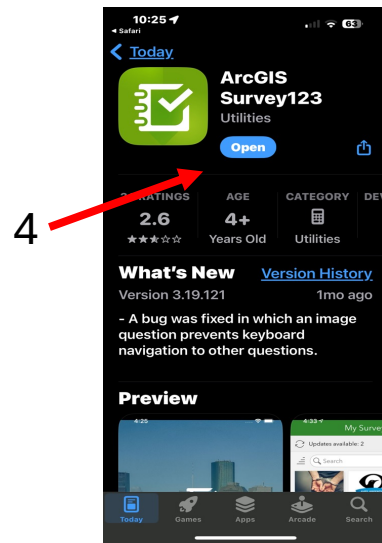
Next open your web browser (green arrow, Screen **8**) which will have the same URL used to download S123. You should see screen **9** asking to open S123 (green arrow, screen **9**). This will open screen **10,** but this time when you tap the link "without signing in" (5-red arrow in screen 10)you will see the WiTS survey form, screen **11**.

During this step you may see screens **12** & **13**, requesting access to your location and camera.

These are essential to complete the WiTS survey form.

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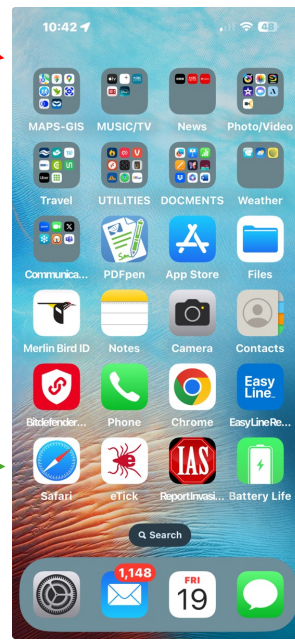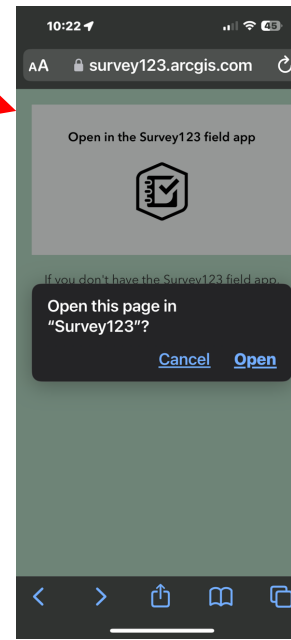
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Using the WiTS Survey in the field

When S123 opens, be sure that you to get the latest version of the WiTS form. If there is an update it will show above the search field (screen 16).

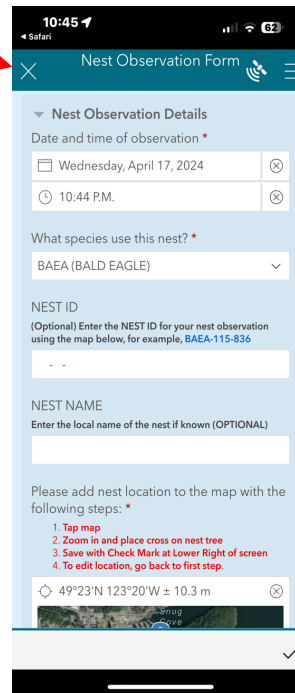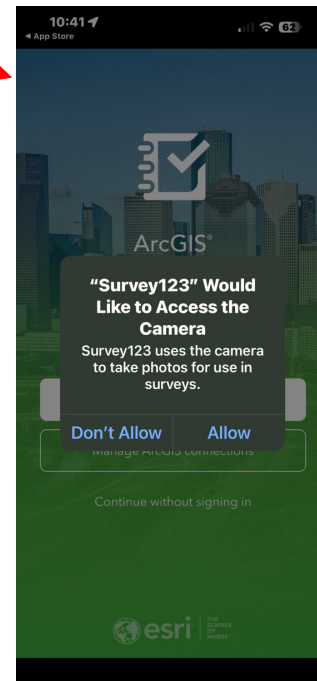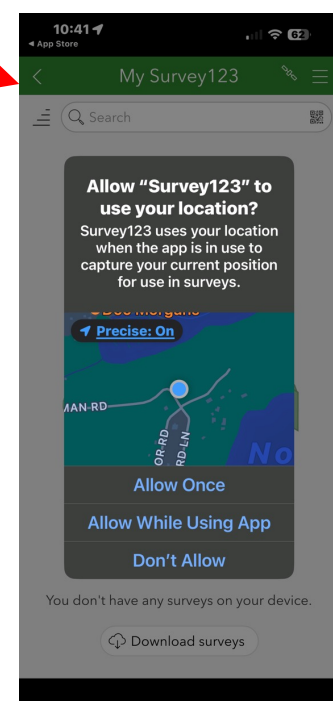If this is the first time using the WiTS survey app a 'Nest Observation Form' is open on your device (screen 11) and the next time you start S123, Screens 14 & 15 will appear. To open a new WiTS form, tap "Collect" (lower red arrow in screen 15). Screen 18 shows a "Draft" record was saved for future editing. If you close a survey before completing you will see options as in screen 17.
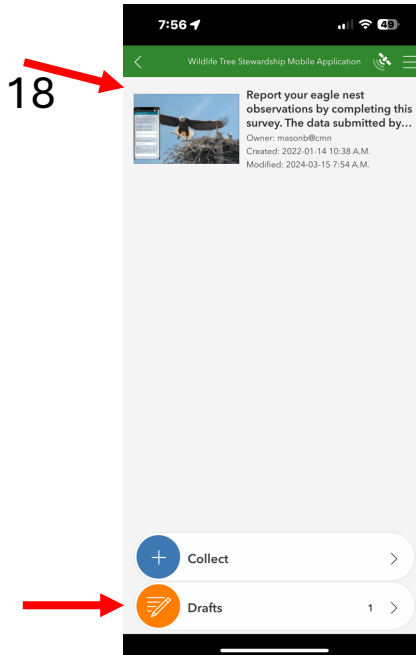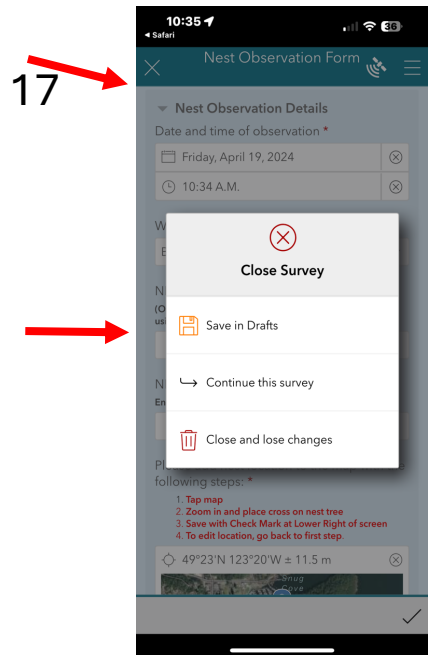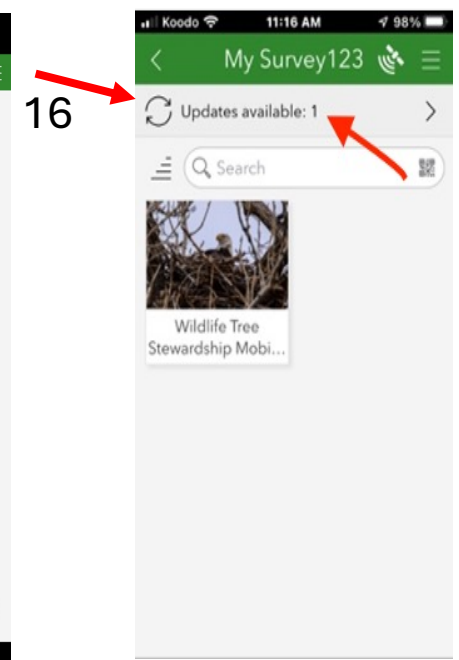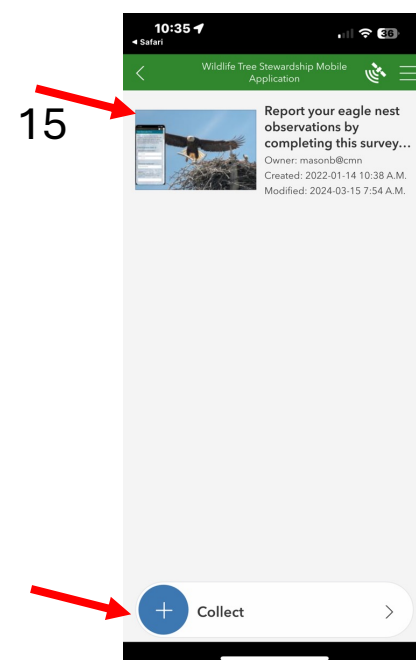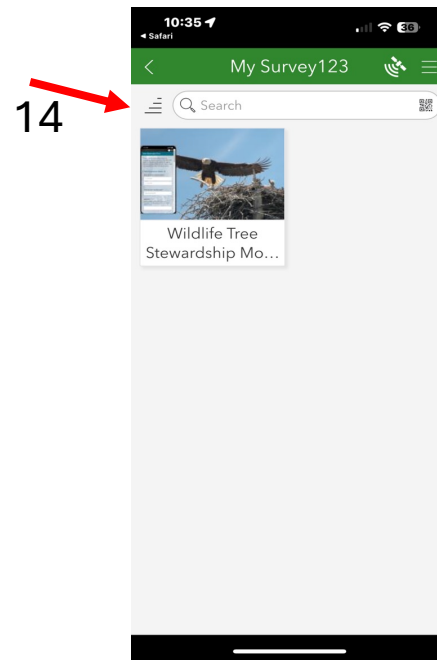
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The survey form asks for a variety of data to be collected from the nest site:

Date and Time: Date and time of observation will be automatically filled by the mobile device.

Species: From the dropdown choose which species the nest belongs to: *Bald Eagle, Osprey* or *Great Blue Heron*. If you are not sure about the species that uses the nest, choose *Unknown.*

Nest ID: To check if the nest you are observing already has an ID, tap the map in the app and zoom to your location to find its given ID. If the nest point doesn't appear on the map, it is a new nest! *You can leave 'Nest ID' blank and continue* to the next step. A member of the WiTS team will give the nest an ID when they receive the Observation Form.

Nest Name: If you know a local name of the nest, different from the Nest ID, you can enter it here. *This field is optional*.

Nest Location:

Method 1, cellular data plan: Click the Map to place a point where the exact nest location is. The map appears small on the Form, but after tapping the Map it will expand to fill the screen of the device. The blue pointer automatically places the point where you are standing, so unless you are standing at the base of the Nest Tree, you will have to move the pointer over to the Nest Tree location. Do your best to drag the point as close to the Nest Tree as possible. Zoom in as far as possible to improve accuracy of mapping.

Method 2, no cellular data plan: As in Method 1 above, the blue pointer automatically places the point where you are standing, so unless you are standing at the base of the Nest Tree the location coordinates saved will be different than nest location. No base map will be displayed so it is not practical to move the blue pointer to the best location. Please make a comment about this location difference as described in the "Nest Tree Location Comment" section.

To save the nest location on the map:
- **tap Check Mark at Lower Right of screen (red arrow)**
- **To correct the location, go back to the methods above.**

Is The Nest On Public or Private Land? Choose the type of property that the nest is located on.

Private Property viewed from public road: If you are on a public road viewing private property,

Private Property not viewed from public road: If you have access to the nest on private property from the property owners. You may need to contact property owners beforehand to gain permission.

***Never enter private property without gaining permission beforehand*!**

Public Land: If the Nest Tree is in a park, along a public roadway, in a conservation area, etc. *Choose this option only if the base of the tree is on public land*, if not, one of the previous options may be more appropriate.

Unknown: If it is unclear to you whether the Nest Tree is on public or private property, choose 'Unknown'.

Address of Nest Site: If the Nest Tree can be found by providing an address of the property it is on or directly adjacent to, please provide an address. This can be helpful for future observers to easily find the Nest Tree property and identify the tree the nest is in. For example, if a tree is technically within a park but is directly behind a house, please provide the address of the house and *add comments on how to navigate to the tree in the Nest Location Comment*.

Nest Location Comment: Please provide a detailed description of how to help future observers and monitors navigate to the site and find the Nest Tree. Include compass directions, distance in metres or km to the Nest Tree from where you are standing, any easily identifiable permanent landmarks, etc.
- *for example: "Park at the parking lot, access the (Trail Name) and walk North for 200m. Nest will be in the stand of Doug firs looking East."*

Nest Activity: From the dropdown menu choose:
Nest Occupied: Eagles are perched on or are sitting within the nest. This includes both adults and chicks.

Nest Not Seen: During your visit, you were unable to find the nest using the given "Nest Location Comment", even though you can't say with 100% certainty that the nest has fallen or no longer exists. This includes being unable to find historic nests, or there is no clear sign if the Nest Tree has been cut.

Nest Down: The Nest Tree is still present, though there are clear signs that the nest is no longer in the tree.

No Activity Observed on the Nest: The Nest has been located and there are signs of Eagles in the area (soaring above, calling, etc), though no activity observed on the nest itself (no perching, nest building, eating, etc). Please include a description of what activity was observed in the "**Comment**" section, between "**Photo2 Caption & Contact Info**" sections.

No Eagles Observed in Nest Area: The Nest has been located, though there are no signs of Eagles in the area during your observation.

Eagles Perched Within 200m of Nest: Eagle activity within 200m or less, near the nest. This could be soaring, perching on nearby trees, calling, etc. Please describe in detail what kind of activity was observed in the "**Comment**" section between "**Photo2 Caption & Contact Info**" sections.

Number of Chicks Observed: State how many chicks were seen in the nest during observation and describe their behaviour in the "**Comment**" section.
If none were seen, please write 0.

Photos: Please take photos of the nest to help future observers.

Photo 1: Take a close-up photo of the nest. Digiscope photos are best for close-up photos so future observers can easily see nest state and structure. To Digiscope, look at the nest through a pair of binoculars or a scope, then bring your device's camera up to the lens to view the nest though it. It may be helpful to have something to rest the binoculars on to help get a steady shot.

Caption 1: give a short description of the nest, including what direction the camera is pointing.

Photo 2: Take a regular photo to show the Nest Tree and surrounding area. Try to keep an obvious landmark in the photo to help future observers navigate and find the Nest Tree. Using the Photo Edit feature on your phone, mark in red ink where the nest is located on the tree and include the Nest ID with an arrow pointing towards the nest.

Caption 2: give a short description of the surrounding area and include what direction the camera is facing.

Do not take photos if you were unable to locate the nest.

Comments: In this section, include a description of nesting activity, eagles observed in the area, distinguishing landscapes, or any important information regarding Eagle behaviour that was observed.

Contact Info: Please include your first and last name, your organization type, and your email address. Under the dropdown **"Organization"** menu, choose which type best describes your situation. Phone number is optional. By providing your contact info the WiTS team can contact you if they need clarification on your observation.

Save your Observation:

Some fields are mandatory. You will be prompted to complete them after tapping the tick mark, bottom right in the WiTS form. If you are connected via cellular data, the observation will be sent right away. If you are off-line the observation will be saved in an "Outbox". In that case your observations can be submitted when you start the app with a wifi connection.

**The Survey123 App will continue to run in the background on your phone. When you are ready to end your field session, remember to exit the app.

Examples of Photo 1 & Photo 2