

IveGot1 and EDDMapS Update

IveGot1 and EDDMapS Update

Chuck Bargeron

The University of Georgia



EVERGLADES CISMA

Overview

- **Website Update**
- **EDDMapS Florida Update**
- **IveGot1 Smartphone Apps**
- **IPCConnect**



Everglades Cooperative Invasive Species Management Area

- About Us
- Meetings
- Distribution Maps
- Report Sightings
- Species Information
- Educational Resources
- News
- Partners



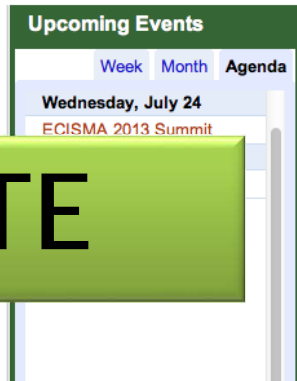
A Cooperative Invasive Species Management Area is a formal partnership of federal, state, and local government agencies, tribes, individuals and various interested groups that manage invasive species and is defined by a geographic boundary. Florida has a long history of invasive species organization cooperation such as the Florida Exotic Pest Plant Council, Noxious Exotic Weed Task Team, Florida Invasive Animal Task Team and Invasive Species Working Group. Everglades restoration poses new challenges for invasive species management and has created a need for a more defined commitment to cooperation among agencies and organizations at higher levels of policy and management.

What's New

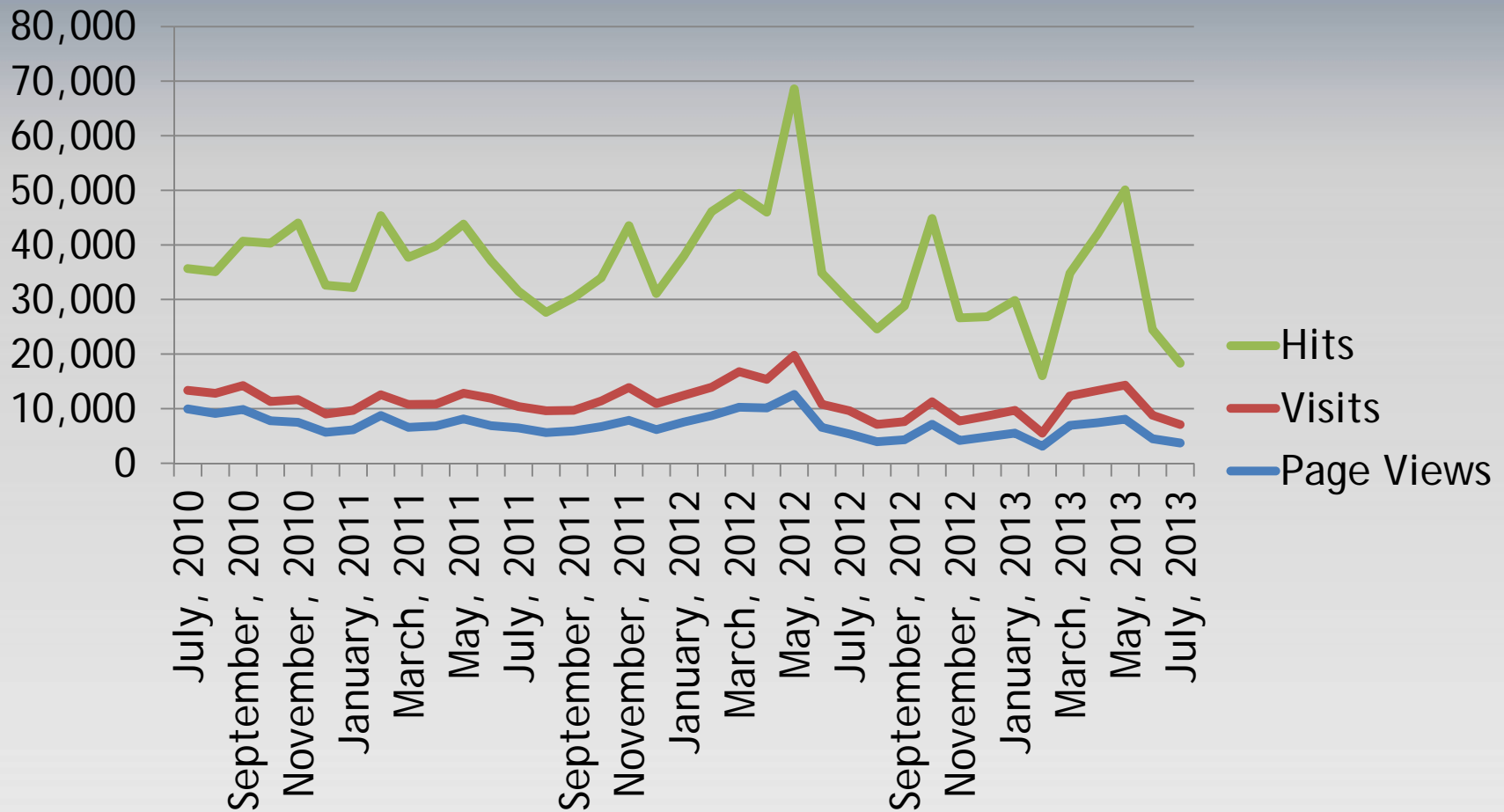
- 2013 Everglades Invasive Species Summit Registration and Agenda
- 2013 Everglades CISMA non-native Fish roundup Photos
- 2013 Everglades CISMA non-native Fish roundup Results
- 2013 Everglades CISMA Newsletter
- 2013 Everglades CISMA non-native Fish roundup
- Exotic plant workday to raise awareness of invasive species
- Pest Alert - *Chrysopogon aciculatus*
- Eyes & Ears Presentation, Speaker Notes and Handouts
- Ecological correlates of invasion impact for Burmese pythons in Florida
- Tegus in Florida brochure 2012

WEBSITE UPDATE

- Nonnative Lizards in Nurseries and Groves -- (English) (Spanish) (Creole)
- ECISMA March 2012 Newsletter
- South Florida Environmental Report - Chapter 7: Status of Nonindigenous Species



ECISMA - Web Traffic



Overall Traffic

468,565 Page Views

249,564 Visitors

2,296,733 Hits

Popular Pages

- Species Info page – 131,788 (all species)
- Home Page – 67,575
- About ECISMA – 7,614
- Fish Roundup – 6,445
- Educational Resources – 4,111
- Dontletitloose – 3,670
- African Python Pest Alert – 1,790
- Reptile Card Deck – 1,225
- 2012 ECISMA Newsletter - 876

Referring Sites

- Google – 34,696
- Bing – 9,238
- Dontletitloose.org – 3,272
- National Wildlife Federation – 616
- Everglades.org – 379
- Florida Invasives – 332

Social Media

facebook

150 Fans



265 Followers

368 Tweets

EVERGLADES CISMA

Distribution Maps

Report Sightings

Species Information

Tools & Training

My EDDMapS

About

Invasive Species Mapping Made Easy!



EDDMapS, started in 2005 with Southeastern U.S. focus, is now providing a picture of the distribution of invasive species across the U.S.

- ✓ Fast and easy to use - no knowledge of GIS required
- ✓ Web-based mapping of invasive species distribution to help fill gaps and identify "leading edge" ranges
- ✓ Facilitates Early Detection and Rapid Response implementation with online data entry forms, e-mail alerts and network of expert verifiers
- ✓ One Database for both local and national data
- ✓ Data can be searched, queried and downloaded in a variety of formats
- ✓ Cooperates with and aggregates data from other invasive species mapping projects
- ✓ Custom/hosted applications can be quickly and inexpensively developed

Statistics

270,733 Reports
1,146 Species

Resources

- ✓ EDDMapS Training Video
- ✓ REDDY: Reptile Early Detection and Documentation Observer Training Course
- ✓ Step-By Step Instructions for Reporting an Invasive Animal Sighting in EDDMapS

Recent Reports

- ✓ Orinoco sailfin catfish by Christopher Hartmann in Gilchrist County, Florida
- ✓ unlisted animal by Daniel Wilson in Indian River County, Florida
- ✓ Bay Biscayne creeping-oxeye by Adam Beauregard in Brevard County, Florida
- ✓ largeleaf lantana by Adam Beauregard in Brevard County, Florida
- ✓ largeleaf lantana by Adam Beauregard in Brevard County, Florida
- ✓ largeleaf lantana by Adam Beauregard in Brevard County, Florida
- ✓ unknown plant by Adam Beauregard in Brevard County, Florida

Data Sharing Partners



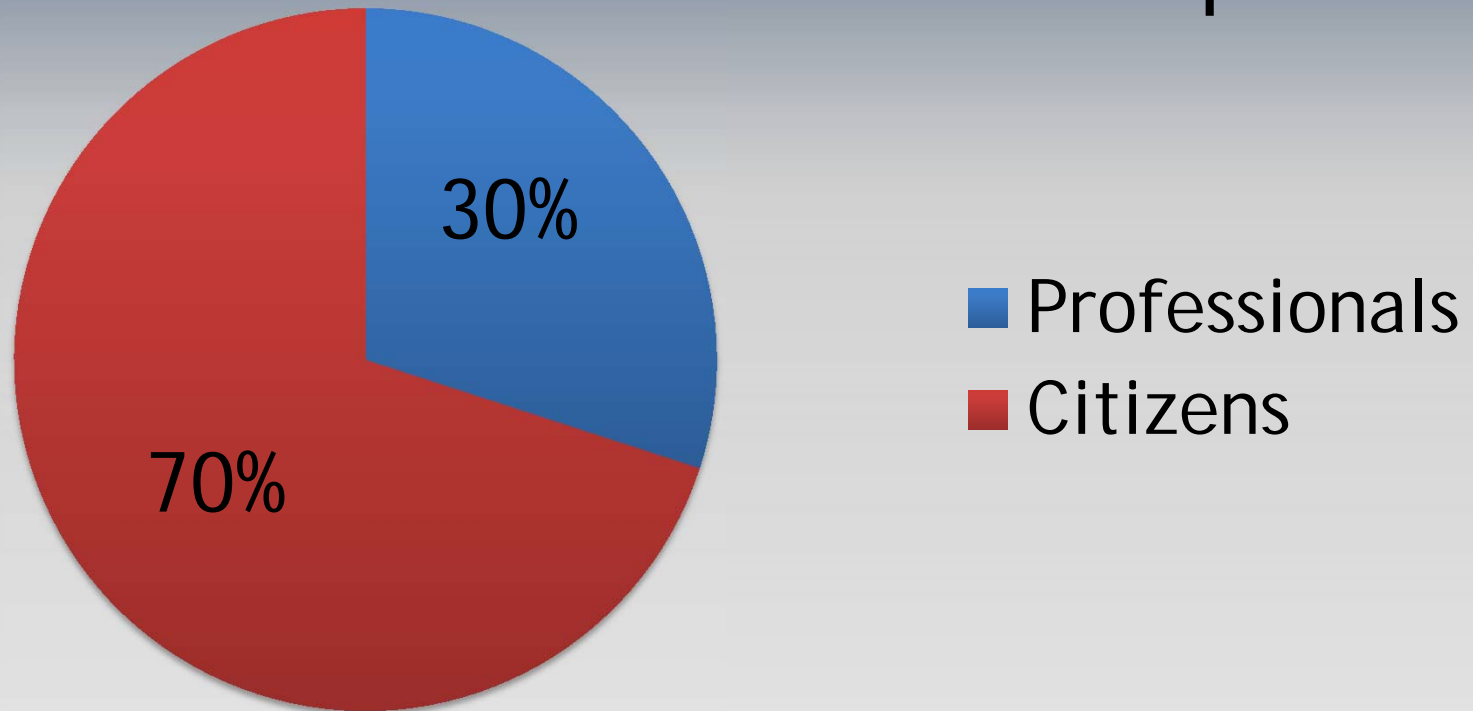
EDDMAPS FLORIDA UPDATE

EDDMapS Florida Statistics

- **Of the 624 reports from smartphones in Florida, there were 145 unique reporters.**
- **71 of these reporters only submitted one record.**
- **25 of these reporters only submitted 2 records**
- **The most records reported by a single reporter were 99 and second most was 47 both from professionals.**

EDDMapS Florida Statistics

Who were the reporters?

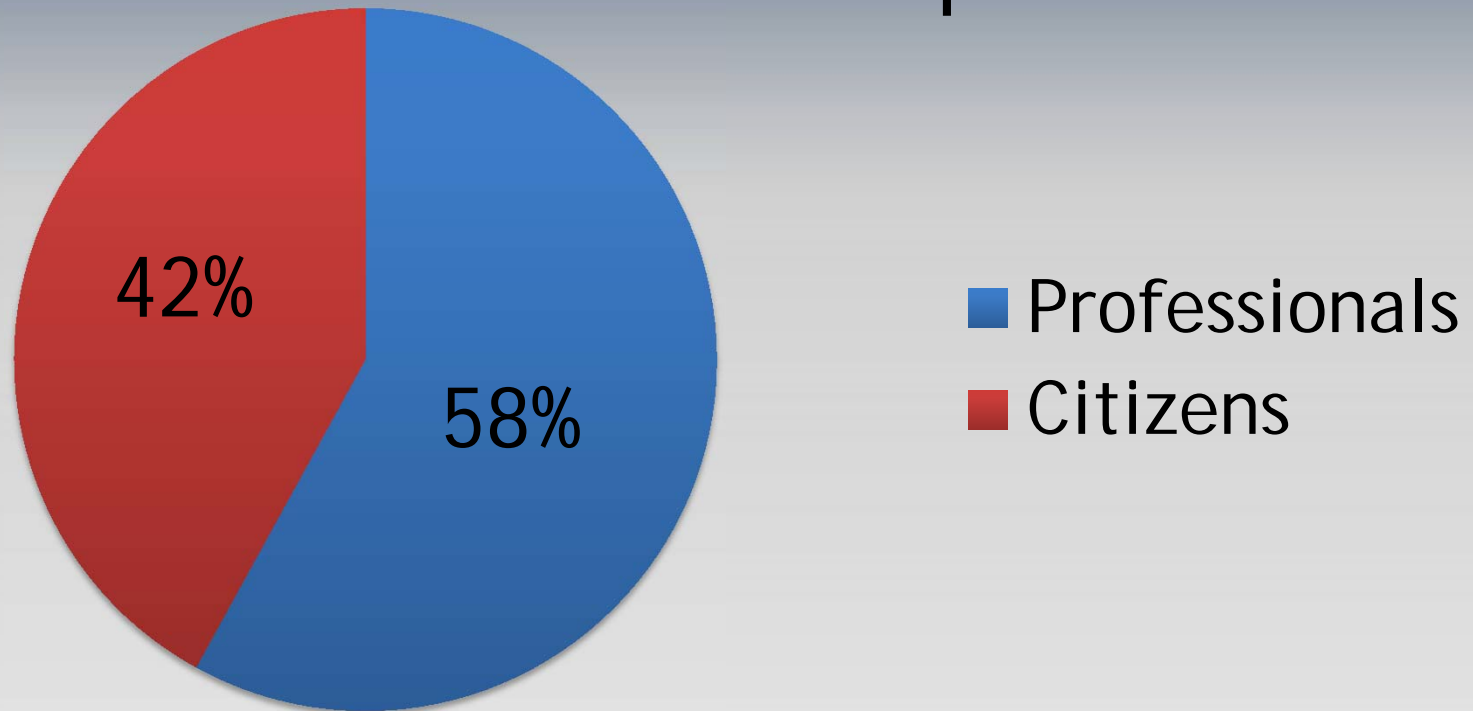


Professionals (state, federal, university, county or industry)

Citizens (citizens, k-12 teachers or students)

EDDMapS Florida Statistics

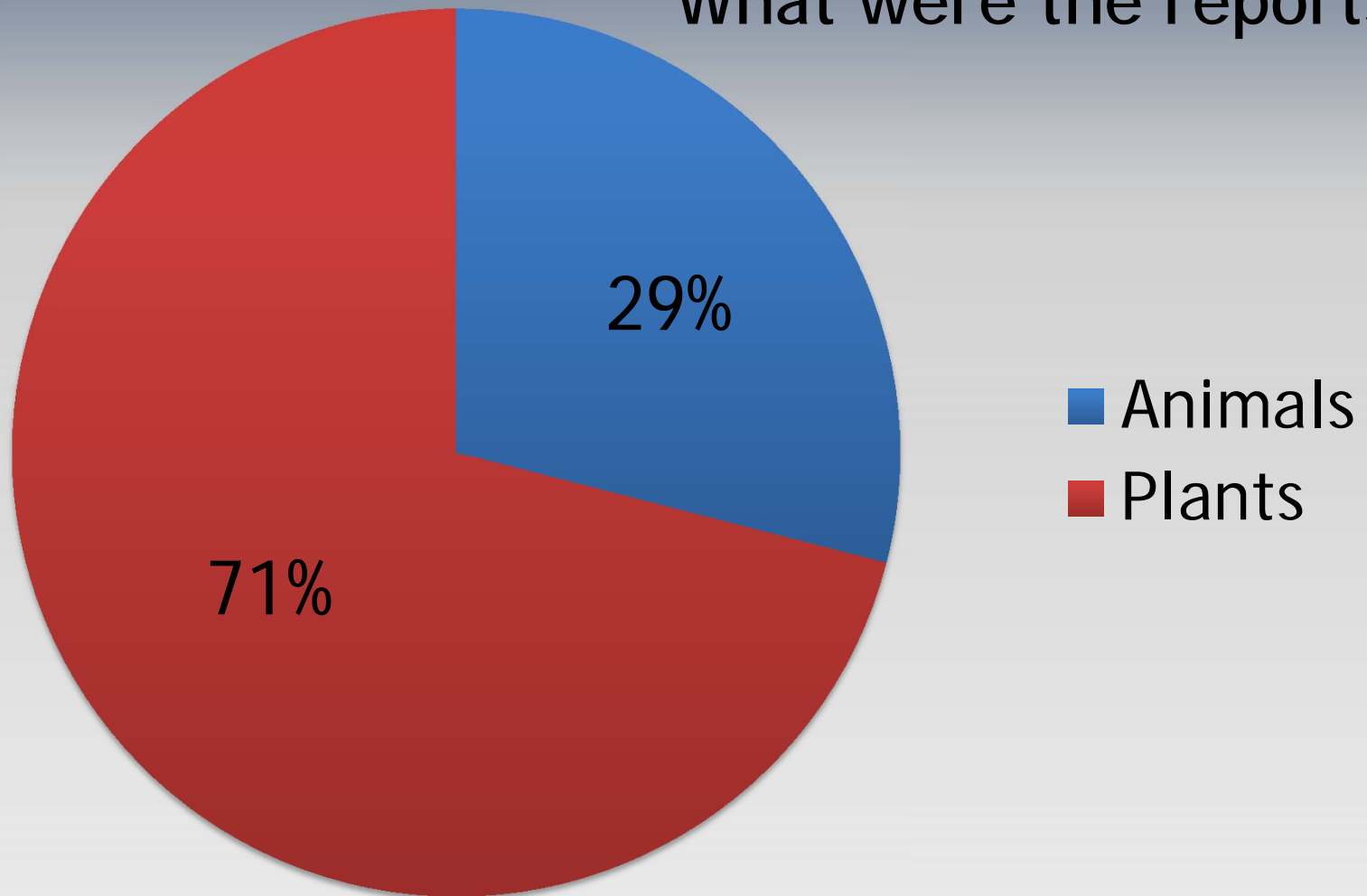
Where reports came from?



54% of citizens reported only 1 record versus 36% of professionals with 1 record

EDDMapS Florida Statistics

What were the reports?



EDDMapS Florida Statistics

During the same time period (since the IveGot1 was released in November 2011), we had 295 reporters report 1088 records via the website in Florida.

EDDMapS Florida Statistics

Another 16,986 records added for Florida as part of batch uploads from agencies and organizations during the same time period.

EDDMapS Coming Soon

- Updated Review/Verification Interface
- EDDMapS Spatial Queries
 - CISMAs
 - Counties
 - Land Ownership
- U.S. Army Corps of Engineers Project
- NPS National Smartphone App replacing What's Invasive for NPS Units



SMARTPHONE APPS UPDATE

EVERGLADES CISMA

Statistics

iOS

11,283 downloads

7510 upgrades

Android

1,165 installs – 516 current



We'll be back soon.

Last Thursday, an intruder attempted to secure personal information of our registered developers from our developer website. Sensitive personal information was encrypted and cannot be accessed, however, we have not been able to rule out the possibility that some developers' names, mailing addresses, and/or email addresses may have been accessed. In the spirit of transparency, we want to inform you of the issue. We took the site down immediately on Thursday and have been working around the clock since then.

In order to prevent a security threat like this from happening again, we're completely overhauling our developer systems, updating our server software, and rebuilding our entire database. We apologize for the significant inconvenience that our downtime has caused you and we expect to have the developer website up again soon.

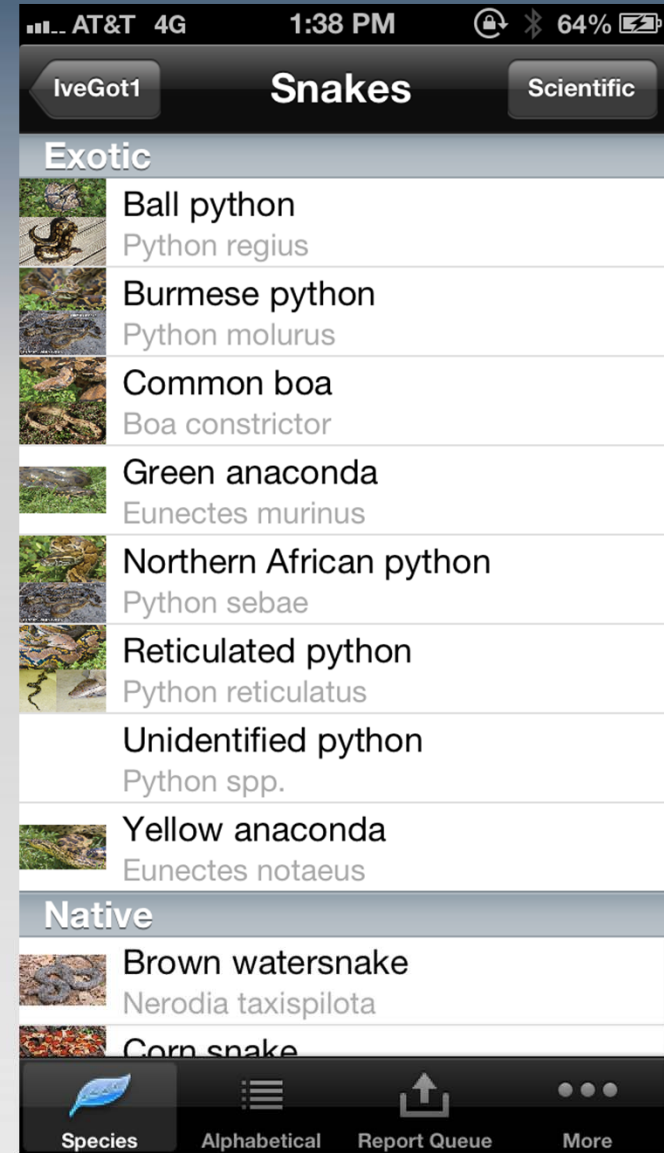
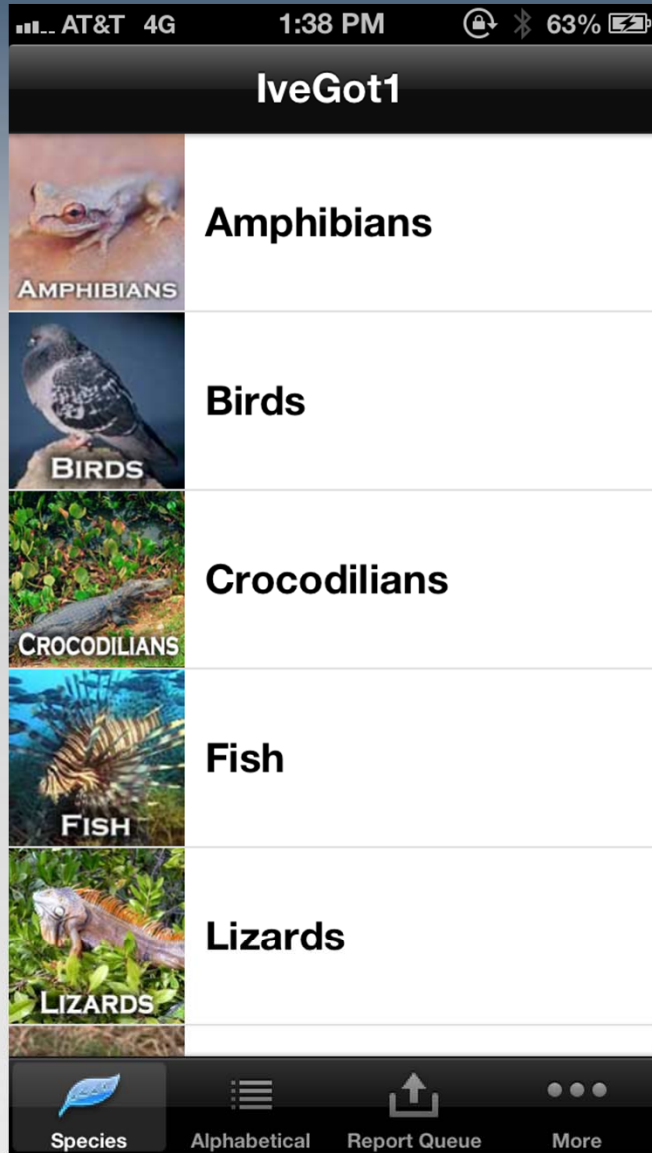
If your program membership was set to expire during this period, it has been extended and your app will remain on the App Store. If you have any other concerns about your account, please [contact us](#).

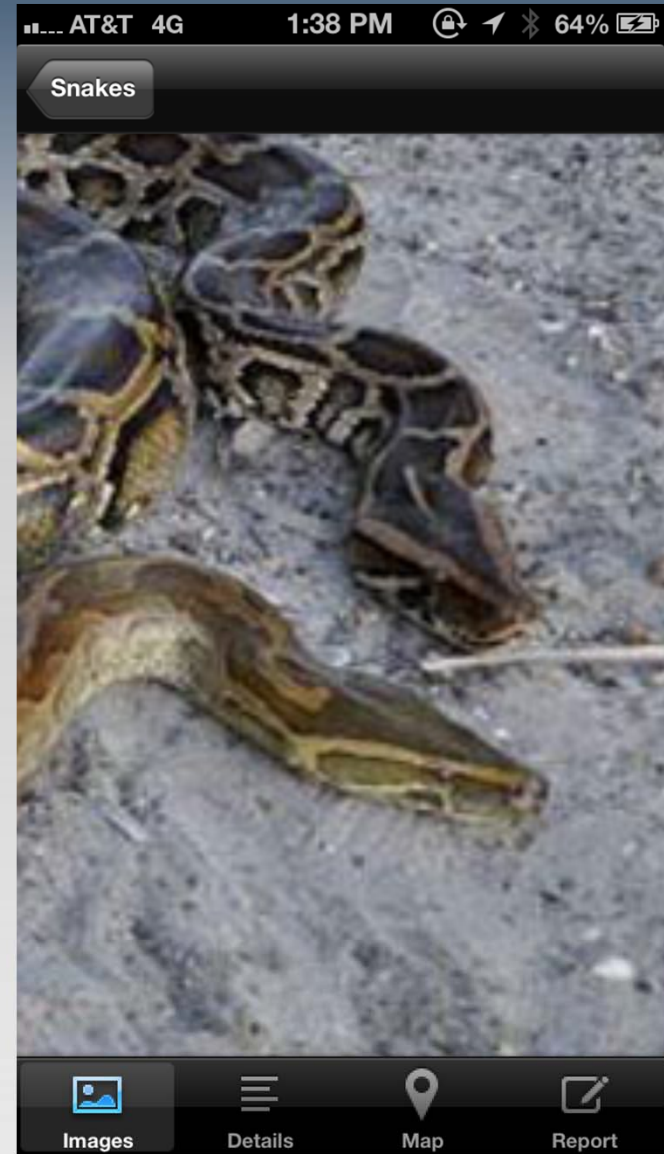
Thank you for your patience.



IPHONE

EVERGLADES CISMA





EVERGLADES CISMA

AT&T 4G 1:38 PM 64%

Snakes



Python sebae

Common Names

Northern African python

Details

Status: Nonnative, Invasive

Length: Maximum length 25 feet

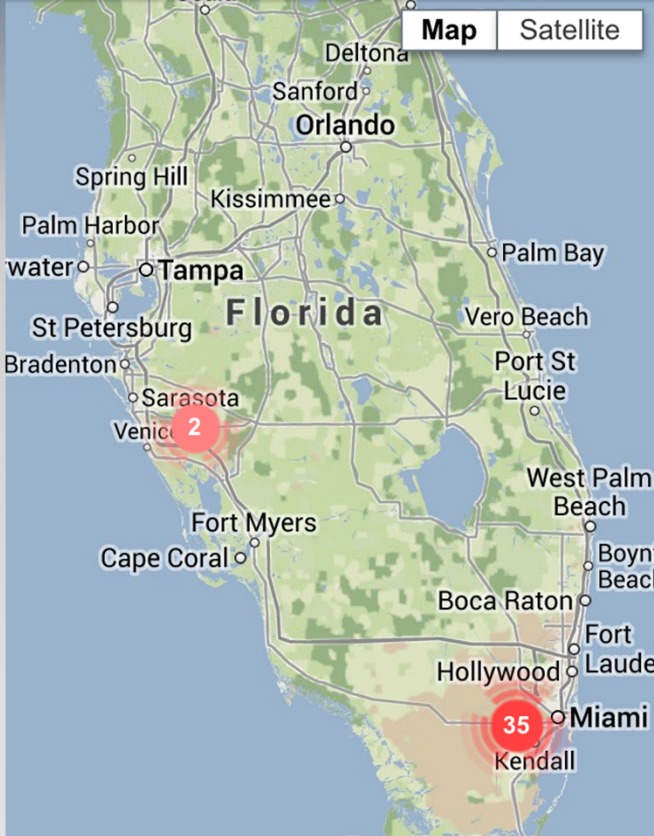
Body: Longer and heavier than most python species

Images Details Map Report

AT&T 4G 1:39 PM 64%

Snakes

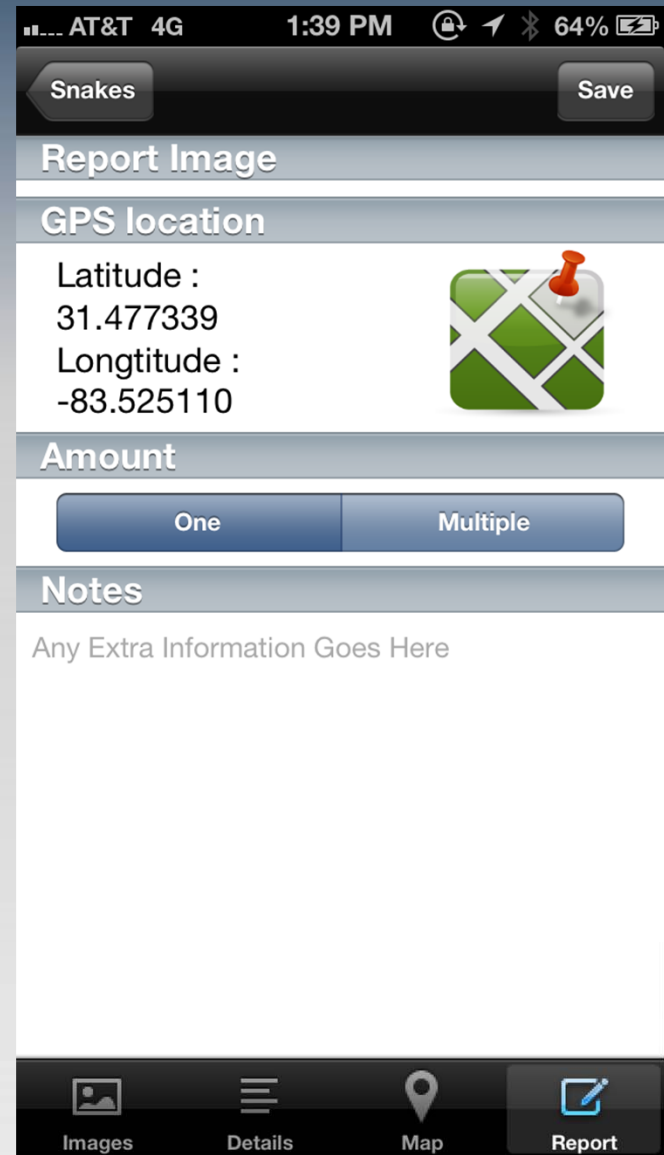
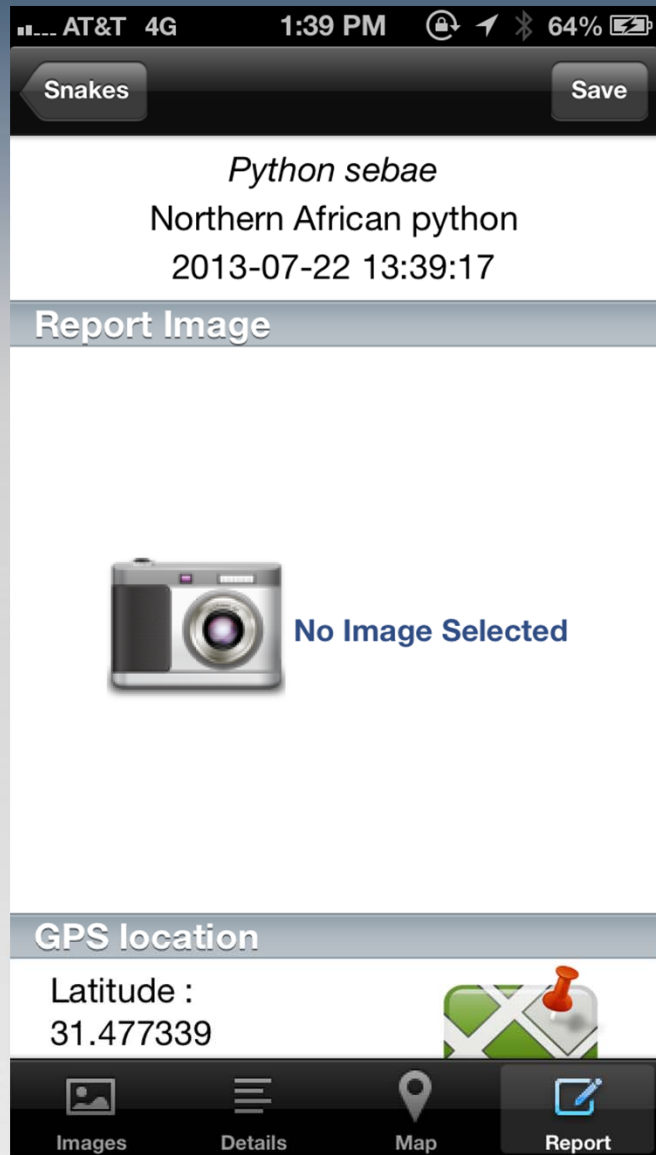
Map Satellite

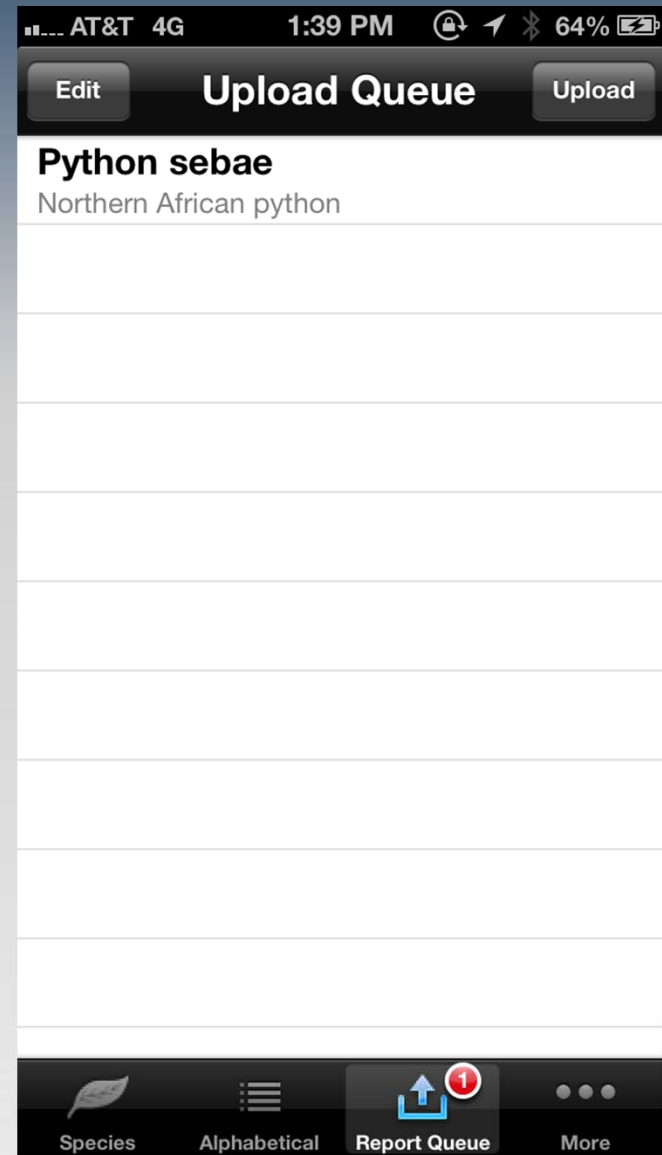
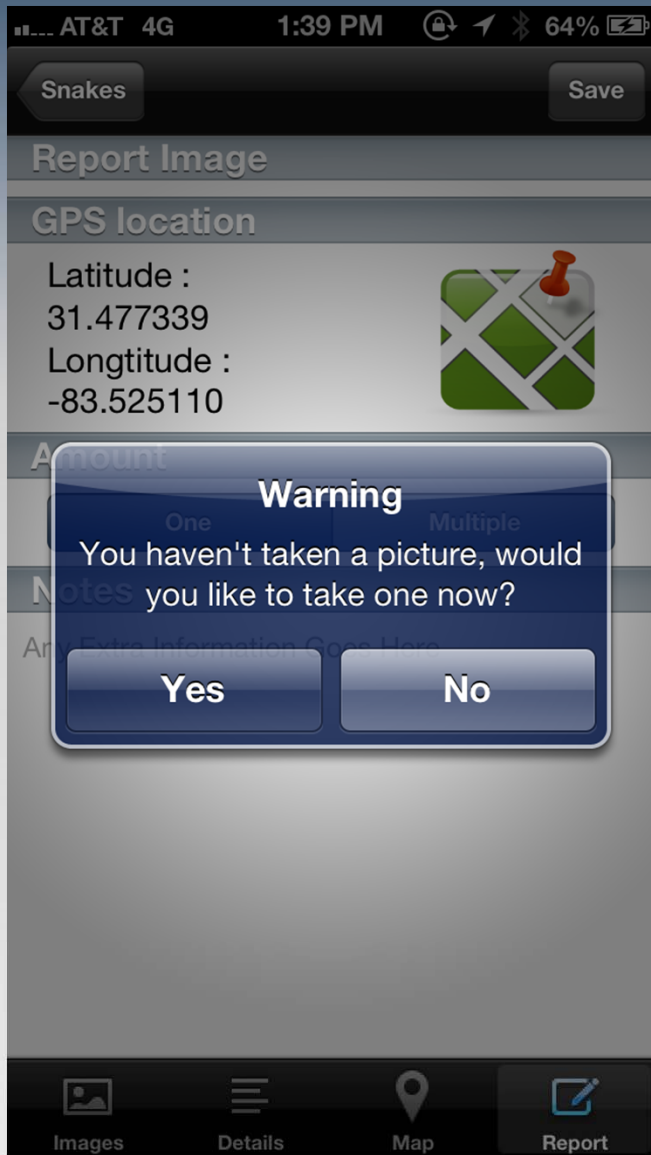


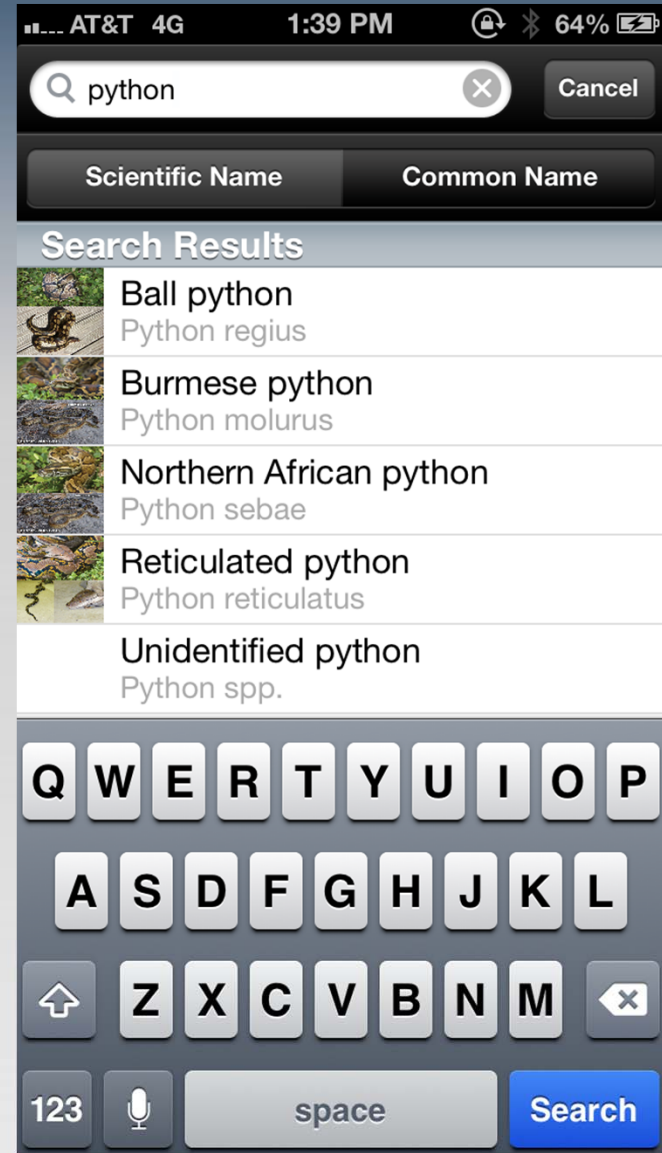
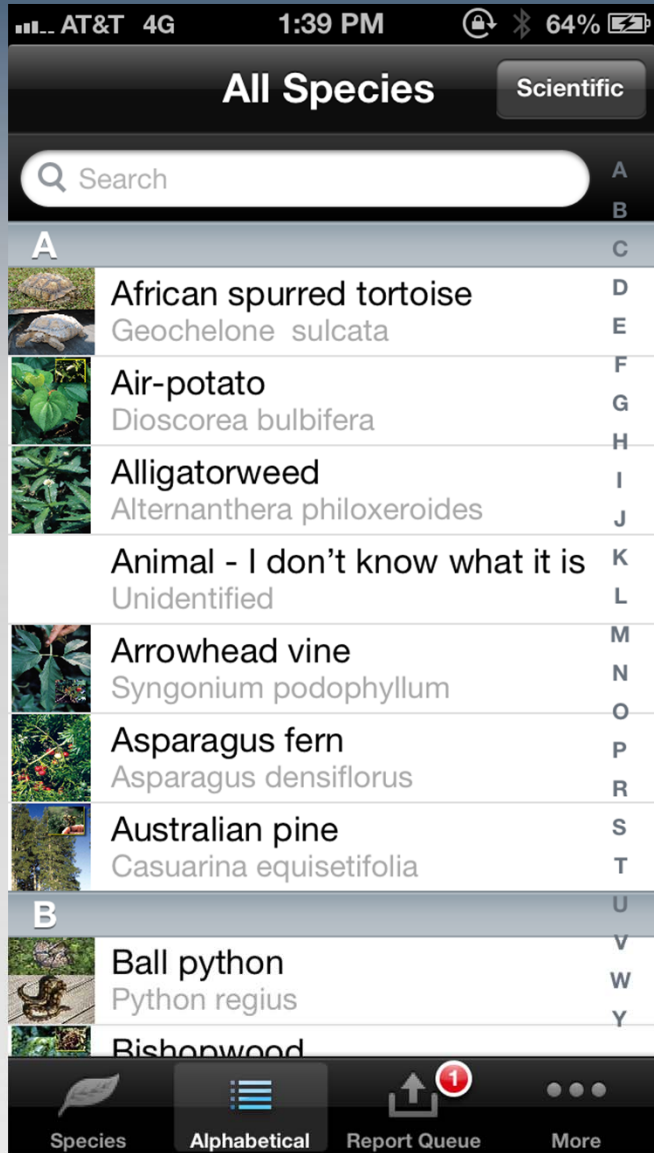
Ernest Coe Visitor Center, Everglades

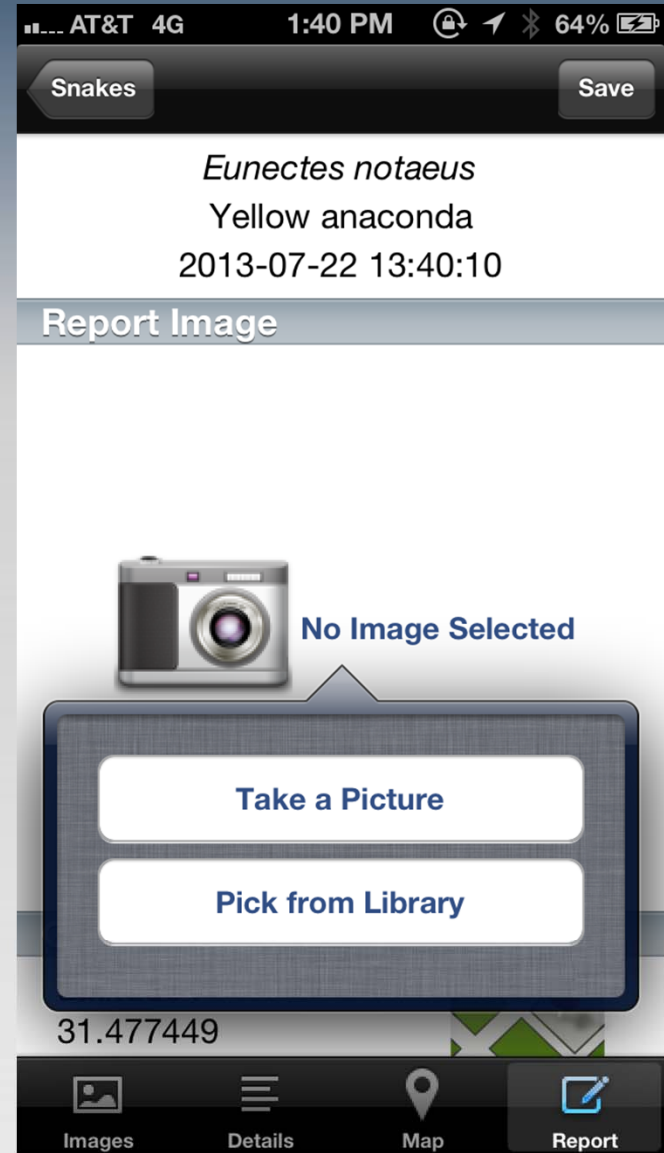
Map data ©2013 Google, INEGI - Terms of Use

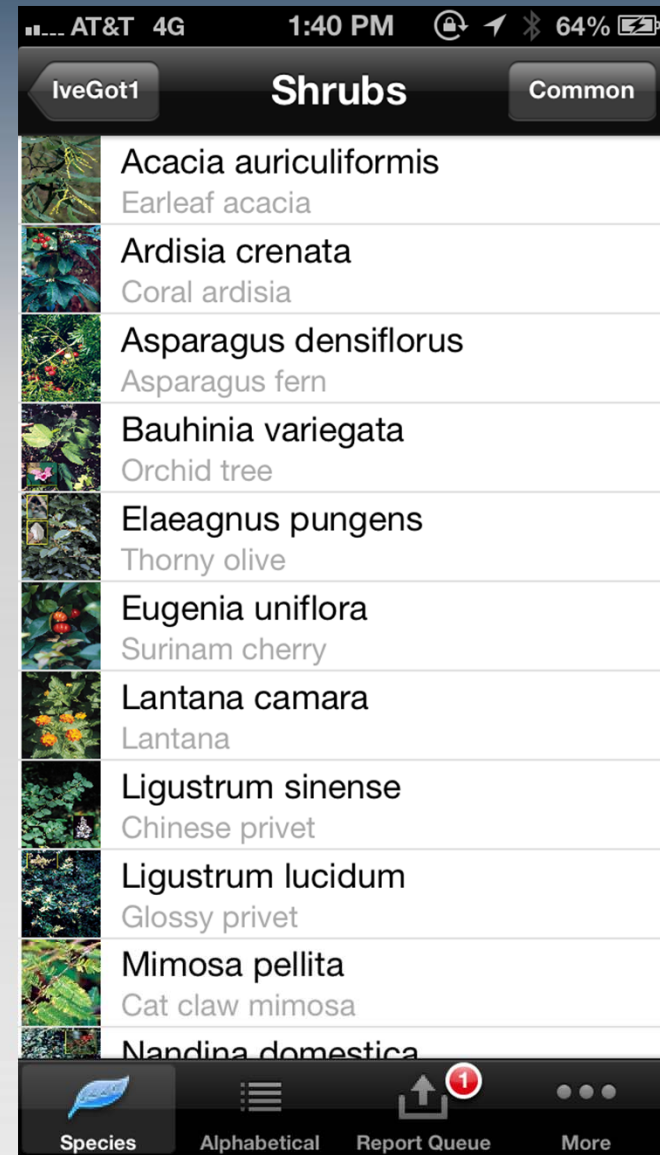
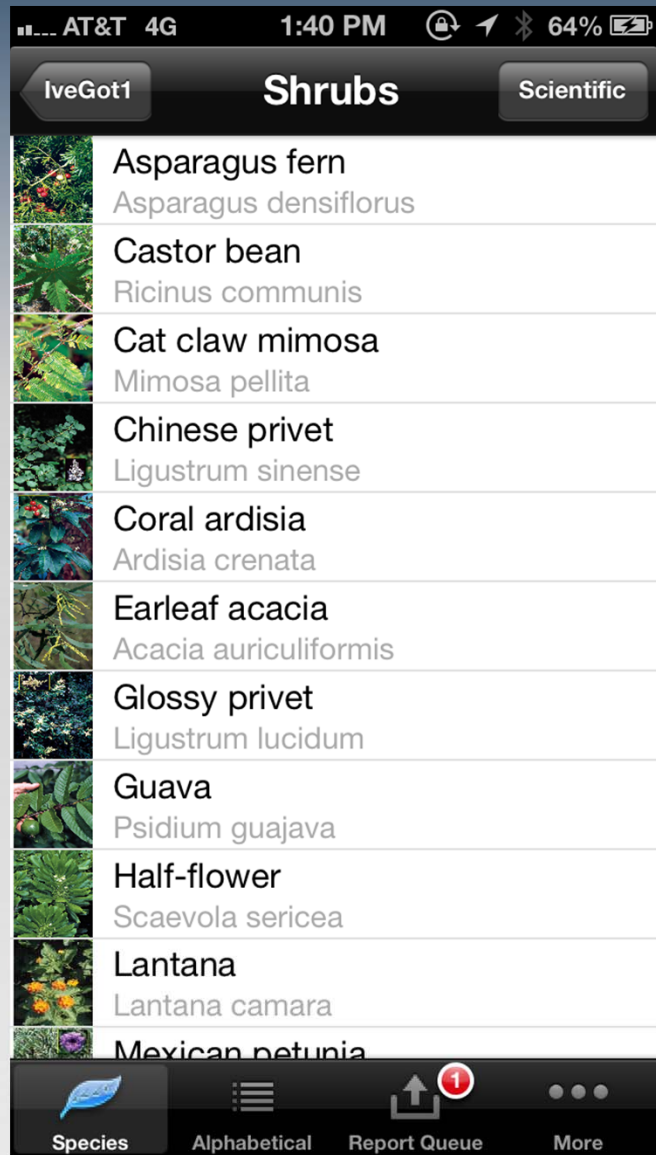
Images Details Map Report

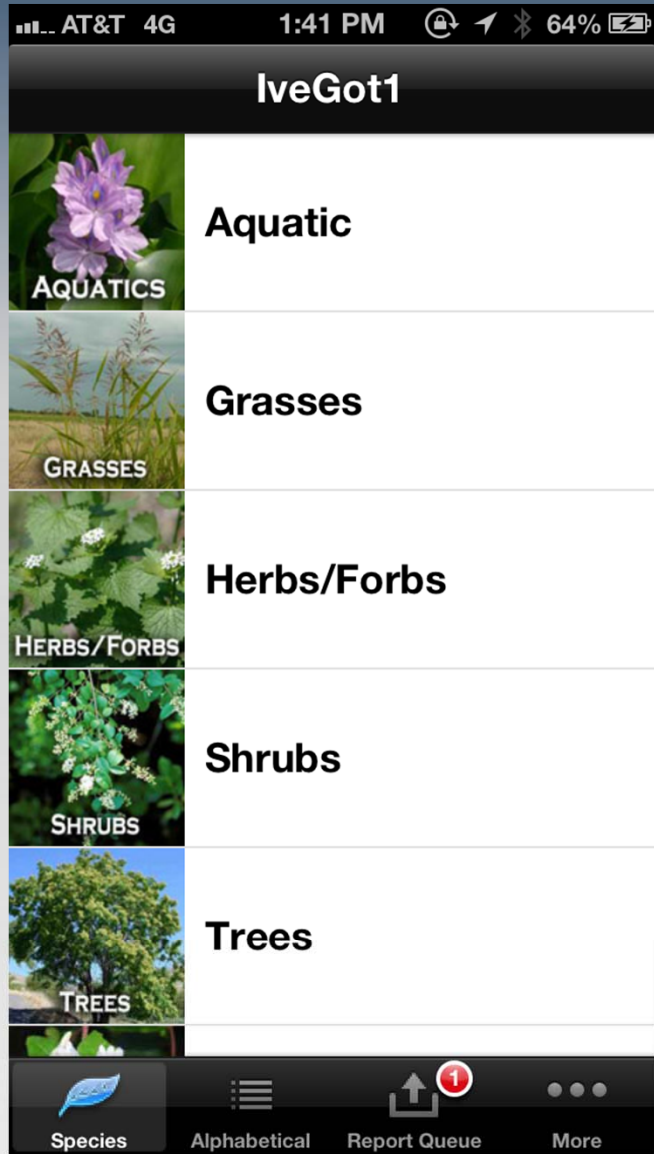




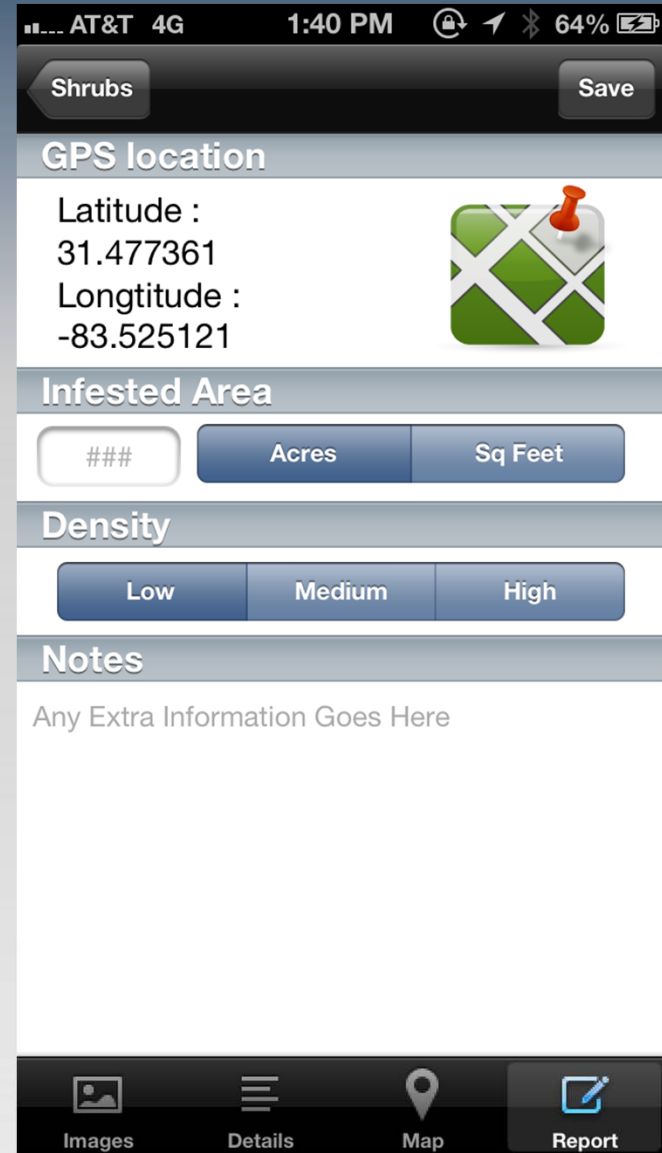


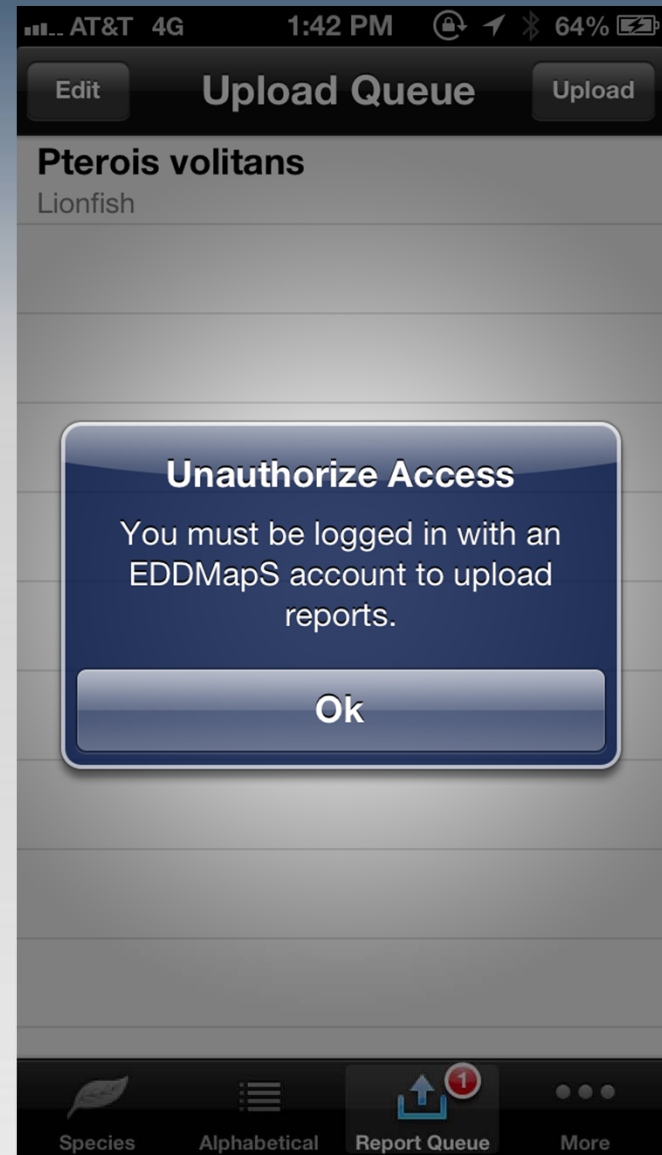
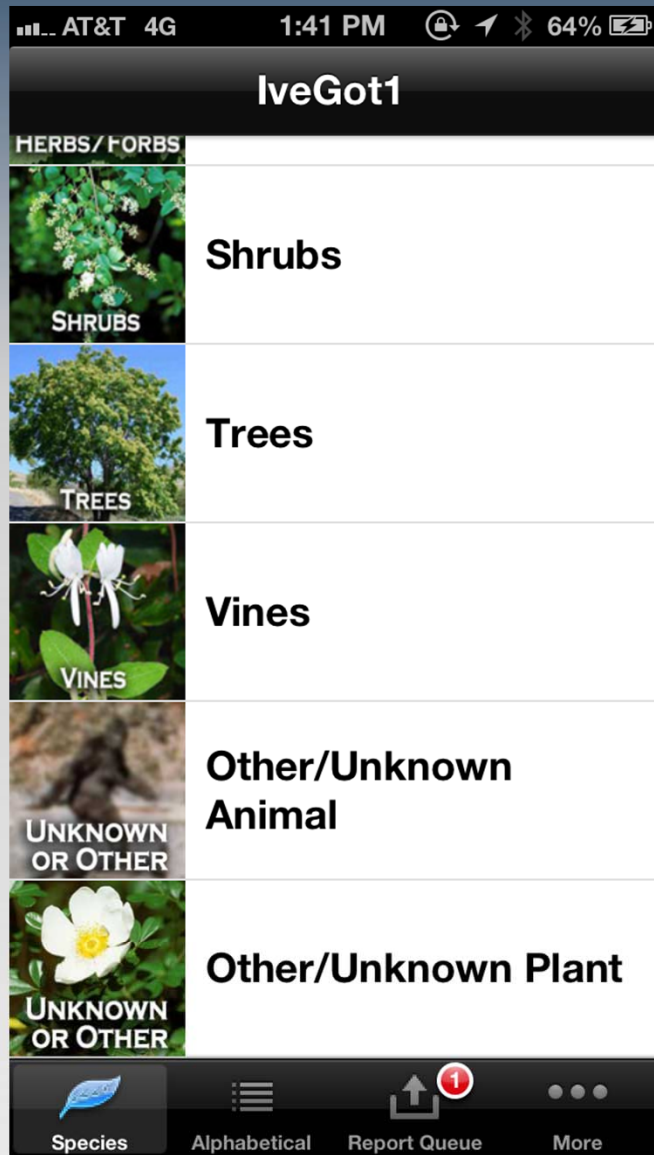


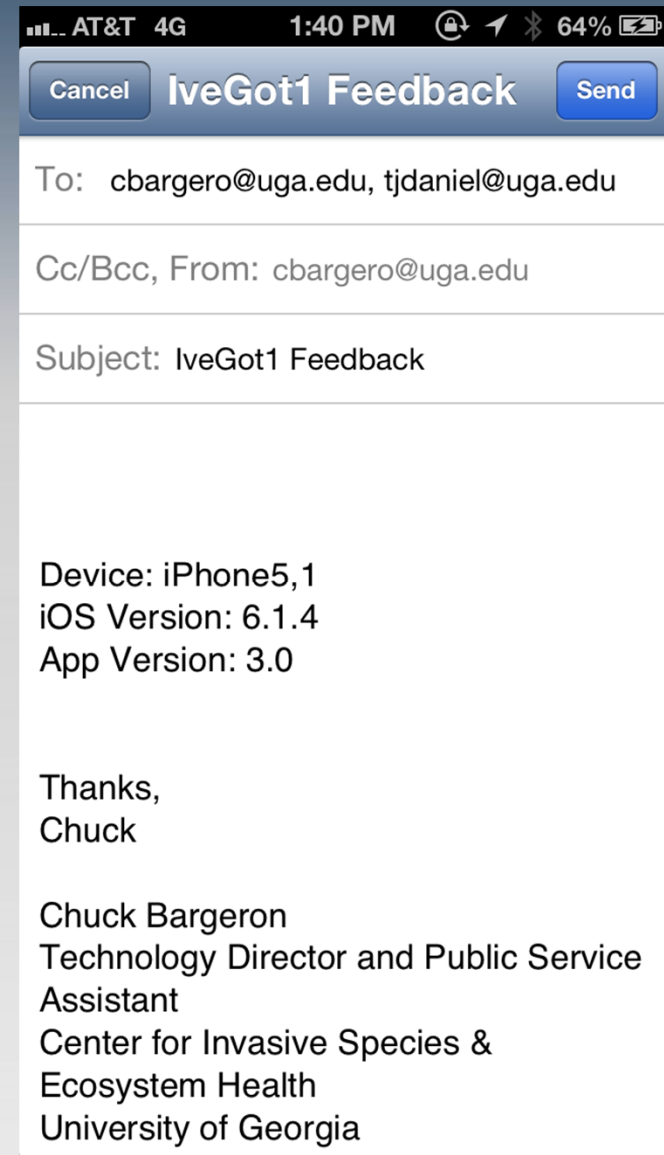
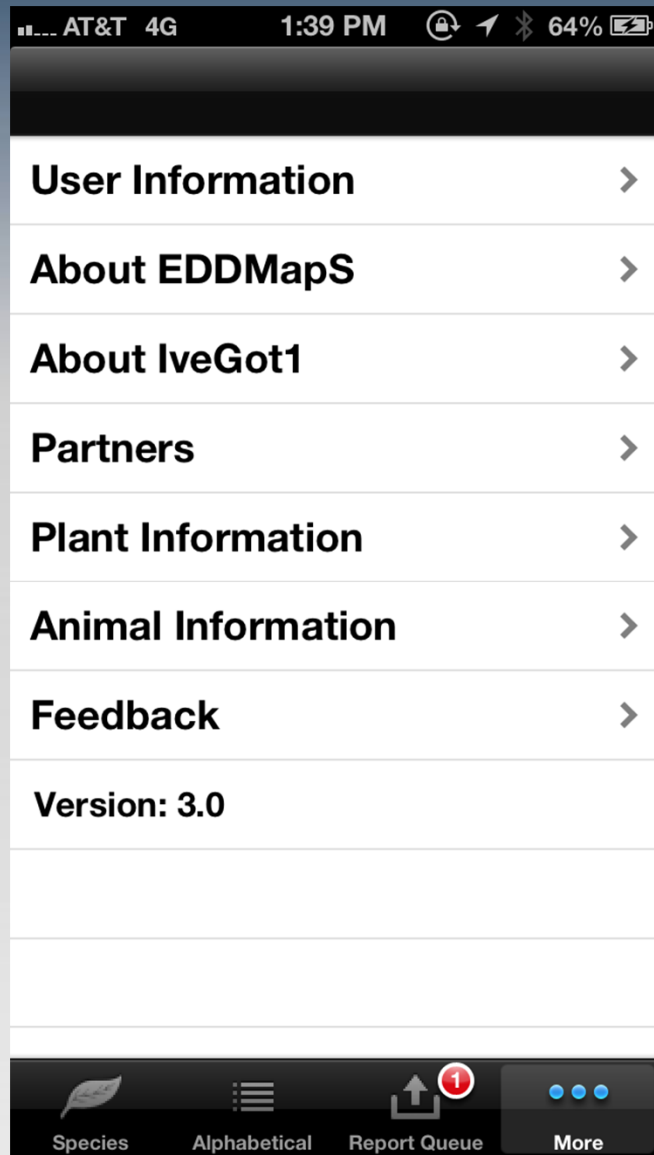




EVERGLADES CISMA









IPAD

EVERGLADES CISMA

EDD **MapS**

Early Detection & Distribution Mapping System

iPad 9:08 AM 15%

IveGot1

-  **Amphibians**
-  **Birds**
-  **Crocodilians**
-  **Fish**
-  **Lizards**
-  **Mammals**
-  **Mollusks**

Species | Alphabetical | Report Queue | More



IveGot1
Identify and Report
Invasive Animals and Plants
in Florida

 THE UNIVERSITY OF GEORGIA
**CENTER FOR INVASIVE SPECIES
ECOSYSTEM HEALTH**


UF UNIVERSITY OF FLORIDA
 IFAS Extension
 Center for Aquatic
 and Invasive Plants

EDDMapS
Early Detection & Distribution Mapping System

EVERGLADES CISMA


iPad 9:08 AM 15%

IveGot1 Snakes Scientific

Exotic

-  Ball python
Python regius
-  Burmese python
Python molurus
-  Common boa
Boa constrictor
-  Green anaconda
Eunectes murinus
-  Northern African python
Python sebae
-  Reticulated python
Python reticulatus
- Unidentified python
Python spp.
-  Yellow anaconda
Eunectes notaeus

Native

-  Brown watersnake
Nerodia taxispilota
-  Corn snake
Elaphe guttata
-  Cottonmouth
Agkistrodon piscivorus
-  Eastern diamondback
Crotalus adamanteus
-  Eastern indigo snake
Drymarchon couperi

Species Alphabetical Report Queue More



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THE UNIVERSITY OF GEORGIA
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



UF UNIVERSITY OF FLORIDA
IFAS Extension
Center for Aquatic
and Invasive Plants






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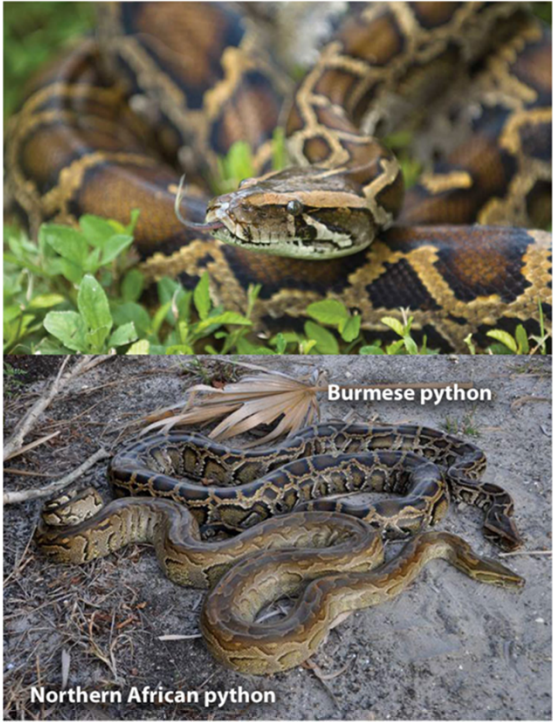
IveGot1 **Snakes** Scientific Back

Exotic

-  **Ball python**
Python regius
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Boa constrictor
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Python spp.
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Native

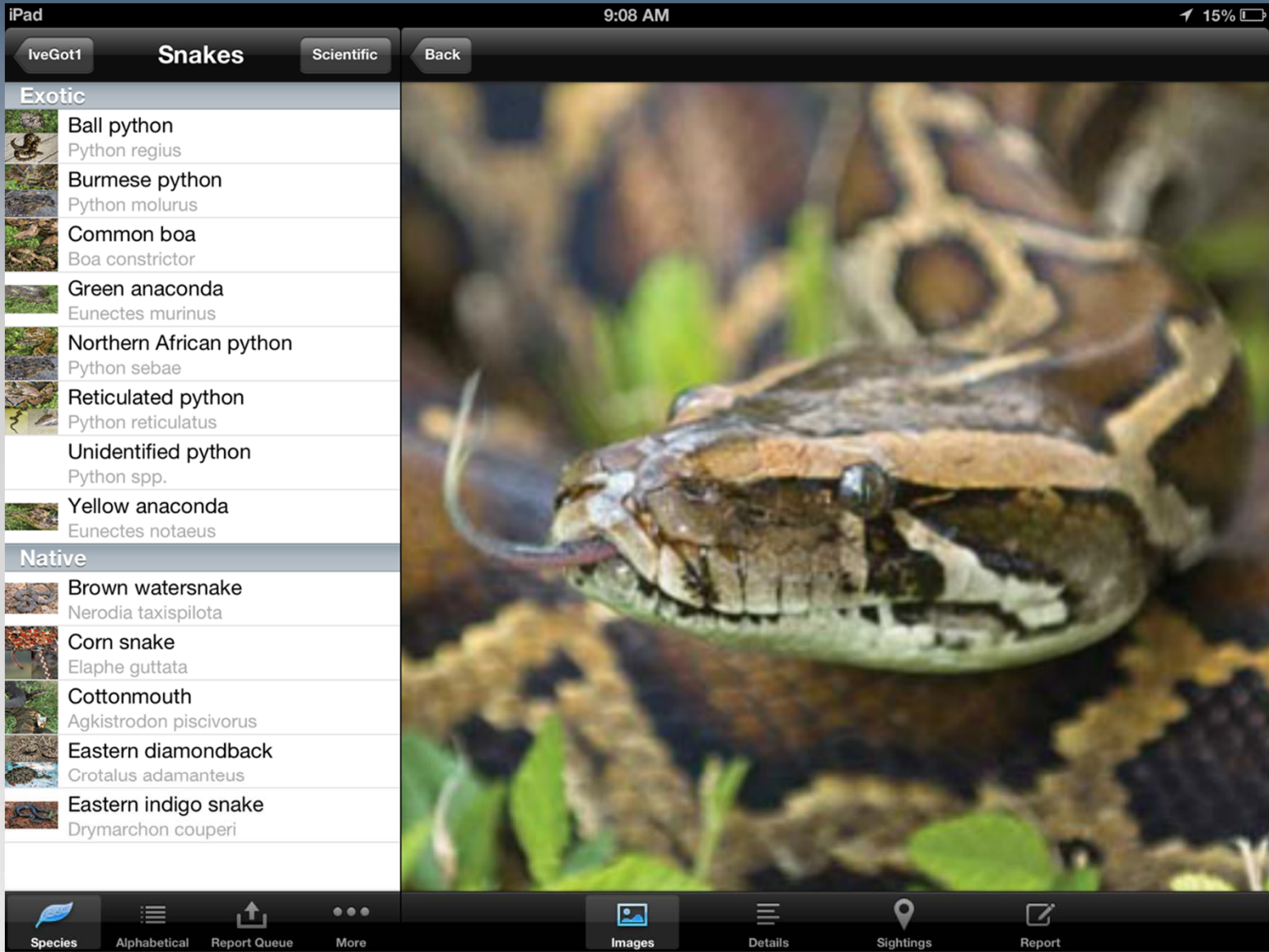
-  **Brown watersnake**
Nerodia taxispilota
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Elaphe guttata
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Agkistrodon piscivorus
-  **Eastern diamondback**
Crotalus adamanteus
-  **Eastern indigo snake**
Drymarchon couperi



Burmese python

Northern African python

Species | Alphabetical | Report Queue | More | **Images** | Details | Sightings | Report



EVERGLADES CISMA

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IveGot1 Snakes Scientific Back

Exotic

- Ball python
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- Eastern indigo snake
Drymarchon couperi



Python molurus
Burmese python

Details

Status: Nonnative, Invasive

Length: Maximum length 25 feet

Body: Not as stout as other python species

Pattern: Network of dark blotches along back and sides (like the pattern of a giraffe); blotches are irregular, not net-like, diamond-shaped, or round

Head: Dark arrowhead on top of the head; light-colored, longitudinal line; dark wedges almost always present behind and below each eye

Notes: A large wild population is well established in Everglades National Park and surrounding areas.

Species Alphabetical Report Queue More Images Details Sightings Report

iPad 9:08 AM 14%

IveGot1 **Snakes** Scientific Back Save

Exotic

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Crotalus adamanteus
-  Eastern indigo snake
Drymarchon couperi

Python molurus
Burmese python
2013-07-22 09:08:32

Report Image and GPS Location

Latitude :
31.477399

Longitude :
-83.525093

Amount

One Multipule

Notes

Any Extra Information Goes Here

Species Alphabetical Report Queue More Images Details Sightings Report

iPad 9:08 AM 14%

IveGot1 **Snakes** Scientific Back Save

Exotic

-  Ball python
Python regius
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Python molurus
Burmese python
2013-07-22 09:08:32

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Take a Photo

Pick from Library

One Multipule

Notes
Any Extra Information Goes Here

Species Alphabetical Report Queue More Images Details Sightings Report

iPad 9:08 AM 14%

IveGot1 **Snakes** Common Back Save

Exotic

-  **Boa constrictor**
Common boa
-  **Eunectes murinus**
Green anaconda
-  **Eunectes notaeus**
Yellow anaconda
-  **Python regius**
Ball python
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Burmese python
-  **Python sebae**
Northern African python
-  **Python reticulatus**
Reticulated python
- Python spp.**
Unidentified python

Native

-  **Agkistrodon piscivorus**
Cottonmouth
-  **Crotalus adamanteus**
Eastern diamondback
-  **Drymarchon couperi**
Eastern indigo snake
-  **Elaphe guttata**
Corn snake
-  **Nerodia taxispilota**
Brown watersnake

Python molurus
Burmese python
2013-07-22 09:08:32

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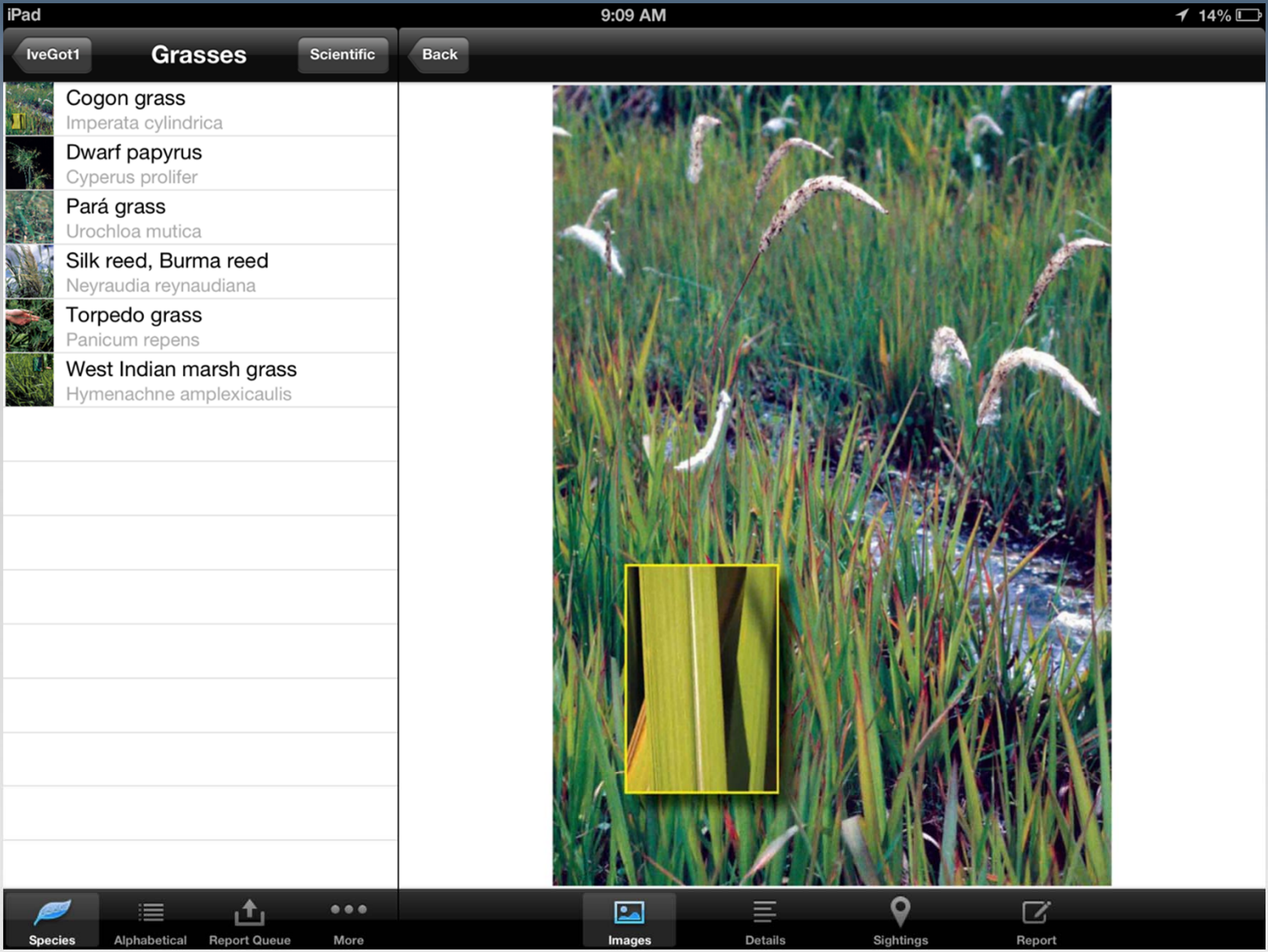
Amount

One Multipule

Notes

Any Extra Information Goes Here

Species Alphabetical Report Queue More Images Details Sightings Report



iPad 9:09 AM 14%

IveGot1 **Grasses** Scientific Back

-  **Cogon grass**
Imperata cylindrica
-  **Dwarf papyrus**
Cyperus prolifer
-  **Pará grass**
Urochloa mutica
-  **Silk reed, Burma reed**
Neyraudia reynaudiana
-  **Torpedo grass**
Panicum repens
-  **West Indian marsh grass**
Hymenachne amplexicaulis



Imperata cylindrica
Cogon grass

Details

Appearance: Perennial grass growing in loose or compact tufts; grows from stout, extensively creeping, scaly rhizomes with sharp-pointed tips.

Leaves: Sheaths relatively short, glabrous or pubescent; ligule a membrane, 0.5-1 mm (0.2-0.4 in) long. Blades erect, narrow and pubescent at base; flat and glabrous above, to 1.2 m (4 ft) tall and to 2 cm (< 1 in) wide, with whitish midvein noticeably off-center; blade margins scabrous, blade tips sharp pointed.

Flowers: In a plume-like, silky panicle, to 21 cm (8 in) long and 3.5 cm (1.4 in) wide; several per branch, base circled by long hairs.

Fruit: 3.5-4.3 mm (0.14-0.17 in)

Ecological threat: Considered one of the top ten worst weeds in the world. Has invaded dry to moist natural areas, including habitats of federally listed endangered and threatened native plant species. FLEPPC Category I

Species Alphabetical Report Queue More Images **Details** Sightings Report

iPad 9:09 AM 14%

IveGot1 **Grasses** Scientific Back Save

 Cogon grass <i>Imperata cylindrica</i>	<p><i>Imperata cylindrica</i> Cogon grass 2013-07-22 09:09:09</p> <p>Report Image and GPS Location</p> <p>Latitude : 31.477399 Longitude : -83.525093</p> <p> </p> <p>Infested Area</p> <p><input type="text" value="###"/> Acres Sq Feet</p> <p>Density</p> <p>Low Medium High</p> <p>Notes</p> <p>Any Extra Information Goes Here</p>
 Dwarf papyrus <i>Cyperus prolifer</i>	
 Pará grass <i>Urochloa mutica</i>	
 Silk reed, Burma reed <i>Neyraudia reynaudiana</i>	
 Torpedo grass <i>Panicum repens</i>	
 West Indian marsh grass <i>Hymenachne amplexicaulis</i>	

Species Alphabetical Report Queue More Images Details Sightings Report

iPad 9:09 AM 14%

All Species Scientific Back Save

Search

A

- African spurred tortoise
Geochelone sulcata
- Air-potato
Dioscorea bulbifera
- Alligatorweed
Alternanthera philoxeroides
- Animal - I don't know what it is
Unidentified
- Arrowhead vine
Syngonium podophyllum
- Asparagus fern
Asparagus densiflorus
- Australian pine
Casuarina equisetifolia

B

- Ball python
Python regius
- Bishopwood
Bischofia javanica
- Black and white tegu
Tupinambis merianae
- Black spiny-tailed iguana
Ctenosaura similis
- Bowfin
Amia calva
- Bowstring hemp
Sansevieria hyacinthoides

Imperata cylindrica
Cogon grass
2013-07-22 09:09:09

Report Image and GPS Location

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Infested Area

Acres Sq Feet

Density

Low Medium High

Notes

Any Extra Information Goes Here

Species Alphabetical Report Queue More Images Details Sightings Report

iPad 9:09 AM 14%

All Species Common Back Save

Search

A

-  **Abrus precatorius** C
Rosary pea
-  **Acacia auriculiformis** D
Earleaf acacia
-  **Achatina fulica** E
Giant African land snail
-  **Agama agama** F
Red-headed Rock Agama
-  **Agkistrodon piscivorus** G
Cottonmouth
-  **Albizia julibrissin** H
Mimosa
-  **Albizia lebeck** I
Woman's tongue
-  **Aleurites fordii** J
Tung oil tree
-  **Alopochen aegyptiacus** K
Egyptian geese
-  **Alternanthera philoxeroides** L
Alligatorweed
-  **Ameiva ameiva** M
South American ground lizard
-  **Amia calva** N
Bowfin
-  **Anolis equestris** O
Knight anole
-  **Ardisia crenata** P

Imperata cylindrica
Cogon grass
2013-07-22 09:09:09

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Infested Area

Acres Sq Feet

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Species Alphabetical Report Queue More Images Details Sightings Report

iPad 9:09 AM 14%

Upload Queue [Edit] [Upload] [Back] [Save]

Imperata cylindrica
Cogon grass
2013-07-22 09:09:09

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Warning
You haven't taken a picture, would you like to take one now?

[Yes] [No]



Infested Area

Acres Sq Feet

Density

Low Medium High

Notes

Any Extra Information Goes Here

Species Alphabetical Report Queue More Images Details Sightings Report

iPad

9:09 AM

14%

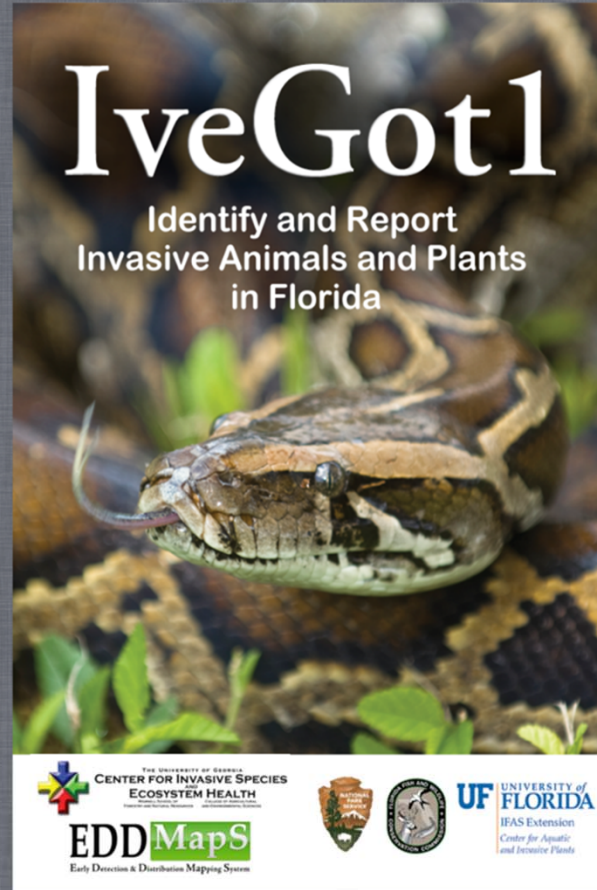
Edit

Upload Queue

Upload

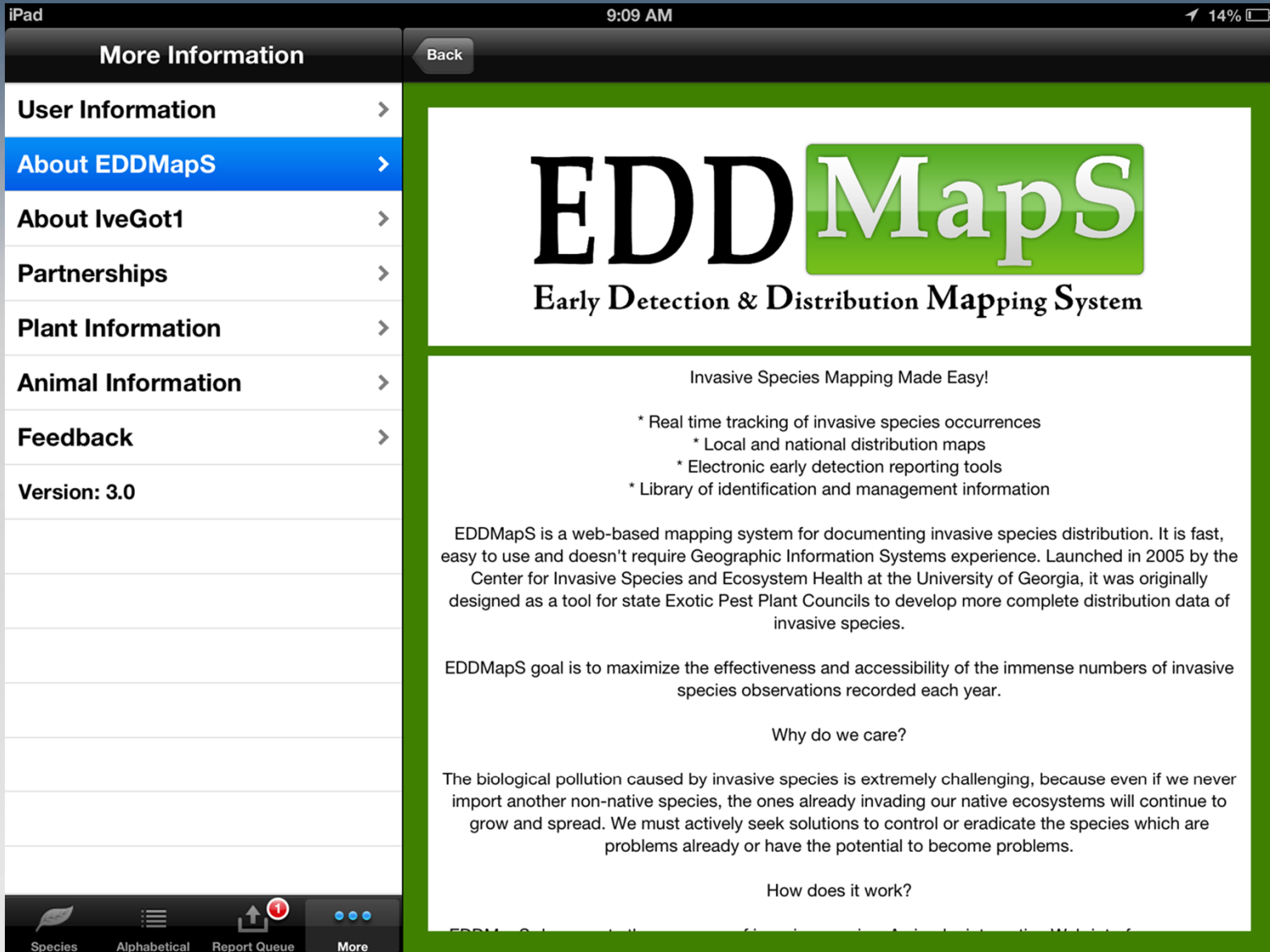
Imperata cylindrica

Cogon grass



Species Alphabetical Report Queue More

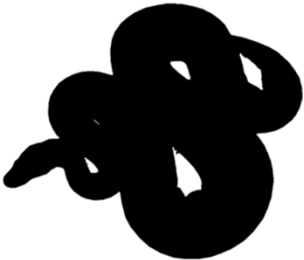
EVERGLADES CISMA



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IveGot1

Identify and Report Invasive
Animals and Plants in Florida

<http://www.ivegot1.org/>

IveGot1 brings the power of EDDMapS to your iPhone. Now you can submit invasive species observations directly with your iPhone from the field. These reports are uploaded to EDDMapS and e-mailed directly to local and state verifiers for review. IveGot1 was developed by the University of Georgia Center for Invasive Species and Ecosystem Health through a cooperative agreement with the National Park Service, in cooperation with the Florida Fish and Wildlife Conservation Commission and the University of Florida Center for Aquatic and Invasive Plants. IveGot1 is more than just an iPhone app, it is an integrated invasive species reporting and outreach campaign for Florida that includes the app, a website with direct access to invasive species reporting and a hotline 1-888-IVEGOT1 for instant reports of live animals.

Every year more than 85 million people visit Florida. However, people are not Florida's only visitors; Florida is also an inviting destination for invasive species that threaten to undermine the health of our environment. More than an inconvenience, invasive plants and animals can greatly alter our native landscape, adversely impact native wildlife, destroy agricultural crops and threaten our health. Invasions of exotic species cost Floridians over \$500 million each year. The economic costs are small compared to the ecological ones. Florida has millions of acres of public lands; these lands furnish us the water we drink, the air we breathe and countless recreational opportunities. These public lands are highly vulnerable to invasion by exotic plant and animal species; it is estimated that more than 1.7 million acres of Florida's natural areas have been infested by invasive species.

By reporting sightings of invasive animals and plants, we can better assess the extent of the infestations and hopefully eradicate new infestations before they become huge problems such as melaleuca or Burmese pythons. The goal of IveGot1 is to make identification and reporting


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IveGot1 was developed by:





THE UNIVERSITY OF GEORGIA
**CENTER FOR INVASIVE SPECIES
 AND
 ECOSYSTEM HEALTH**
WARREN SCHOOL OF FORESTRY AND NATURAL RESOURCES COLLEGE OF AGRICULTURAL AND ENVIRONMENTAL SCIENCES

As part of a Cooperative Agreement with :



NATIONAL
 PARK
 SERVICE

In Cooperation with :


UF UNIVERSITY of FLORIDA
 IFAS Extension
 Center for Aquatic
 and Invasive Plants

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UF UNIVERSITY of FLORIDA

IFAS Extension
*Center for Aquatic
and Invasive Plants*

Glossary

Plant Diagrams

Florida Regions Distribution Map

Plant photos and text are excerpts from INVASIVE AND NON-NATIVE PLANTS YOU SHOULD KNOW – RECOGNITION CARDS, available from the UF/IFAS Extension Bookstore (ifasbooks.com) Publication Number SP 431.

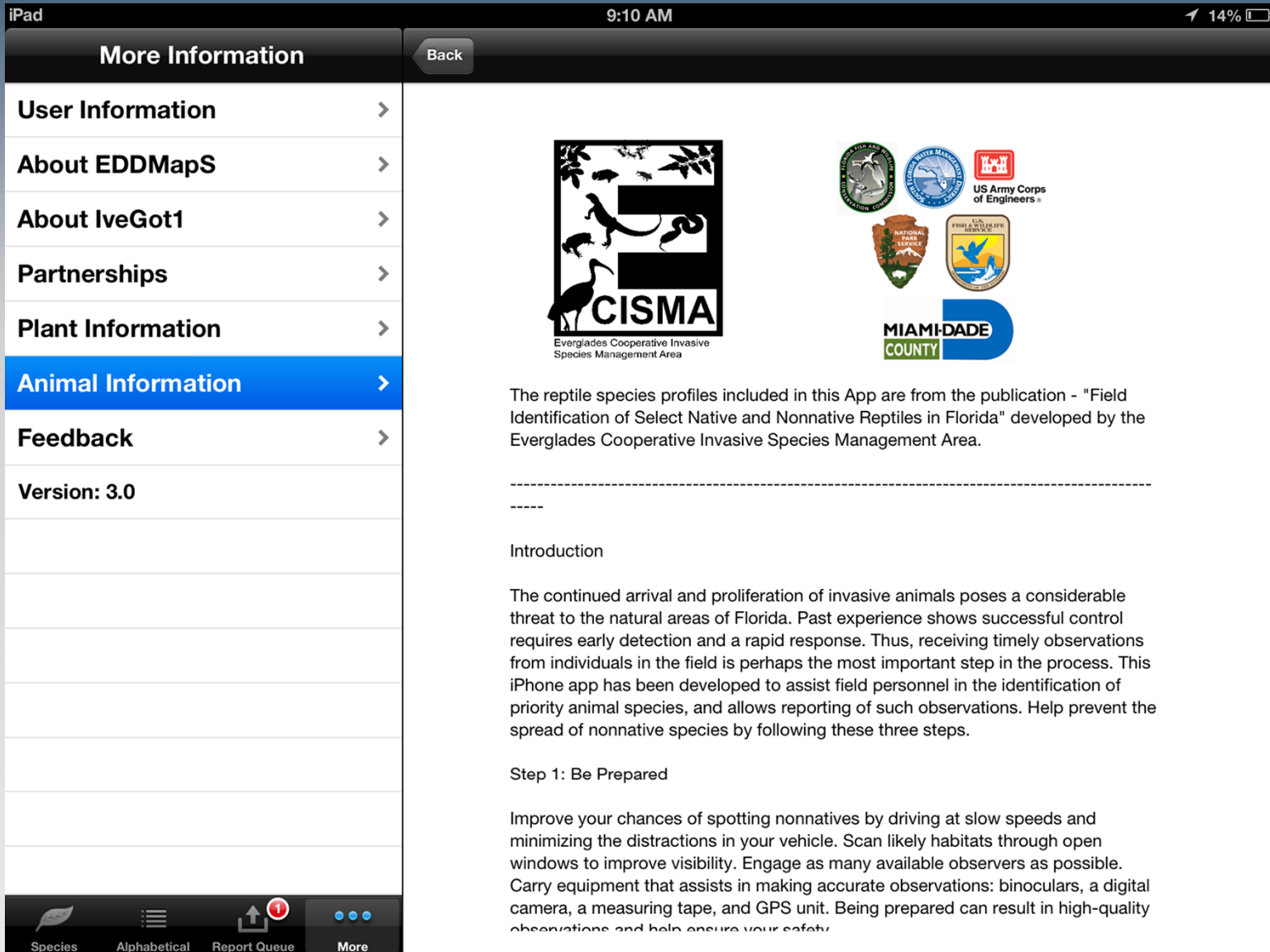
By using this application, you are about to become familiar with a number of non-native plant species currently targeted for control in public waters and conservation lands by the Florida Fish and Wildlife Conservation Commission (FWC), Invasive Plant Management Section.

These non-native, invasive plants are being controlled or managed because:

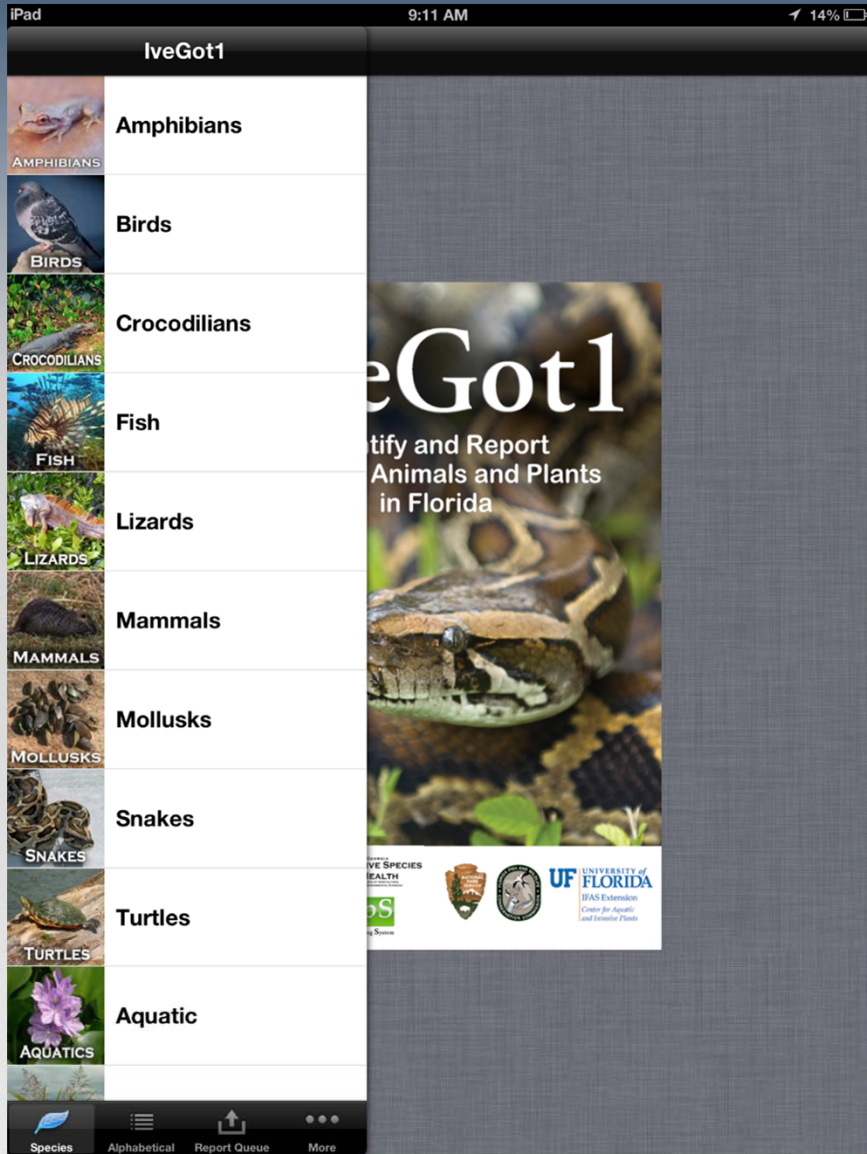
They have already altered native plant communities by displacing native species (demonstrating ecological and/or economic harm)
– OR –
They are increasing in abundance and frequency in natural areas throughout the state.

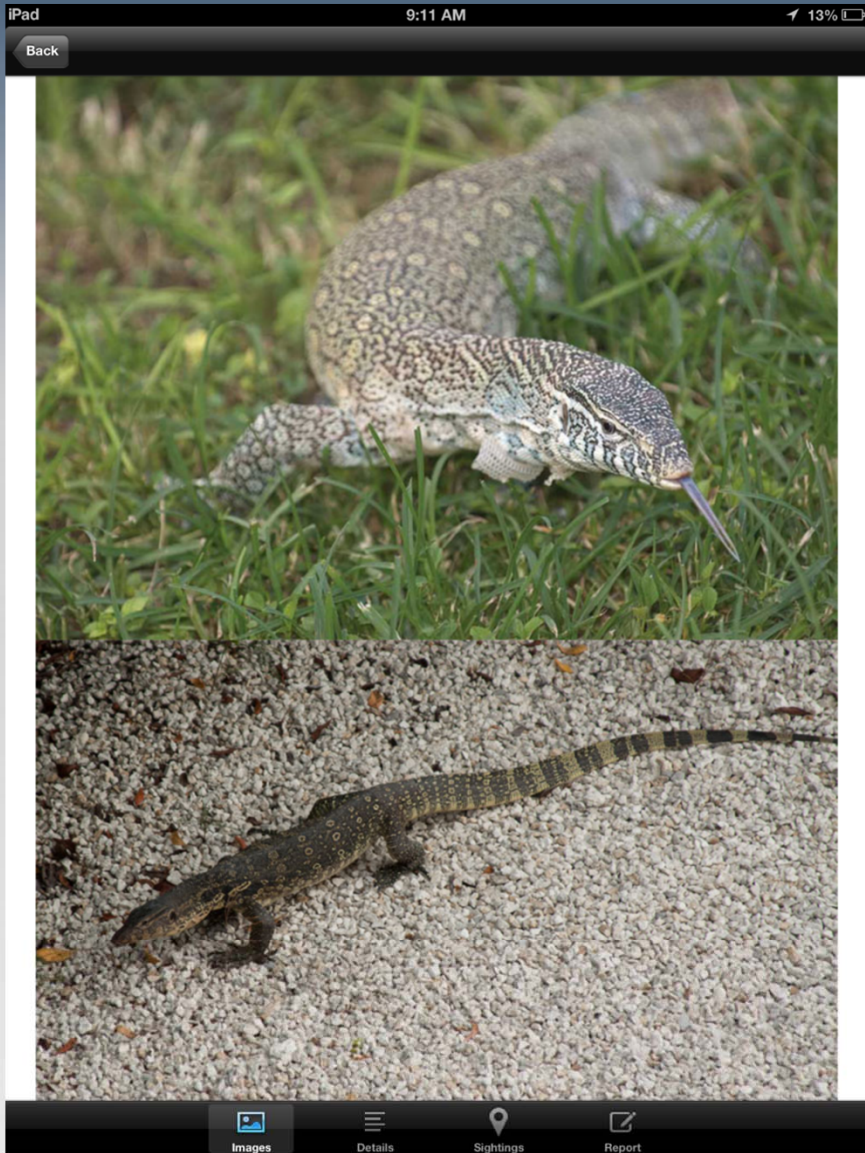
UF/IFAS is evaluating these and other plants for their potential invasiveness in various regions of the state. For the latest evaluations, see the UF/IFAS Assessment of the Status of Non-Native Plants in Florida's Natural Areas: <http://plants.ifas.ufl.edu/assessment>

Species Alphabetical Report Queue (1) More










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Varanus niloticus
Nile monitor

Details

Status: Nonnative, Invasive

Length: Maximum length 6½ feet

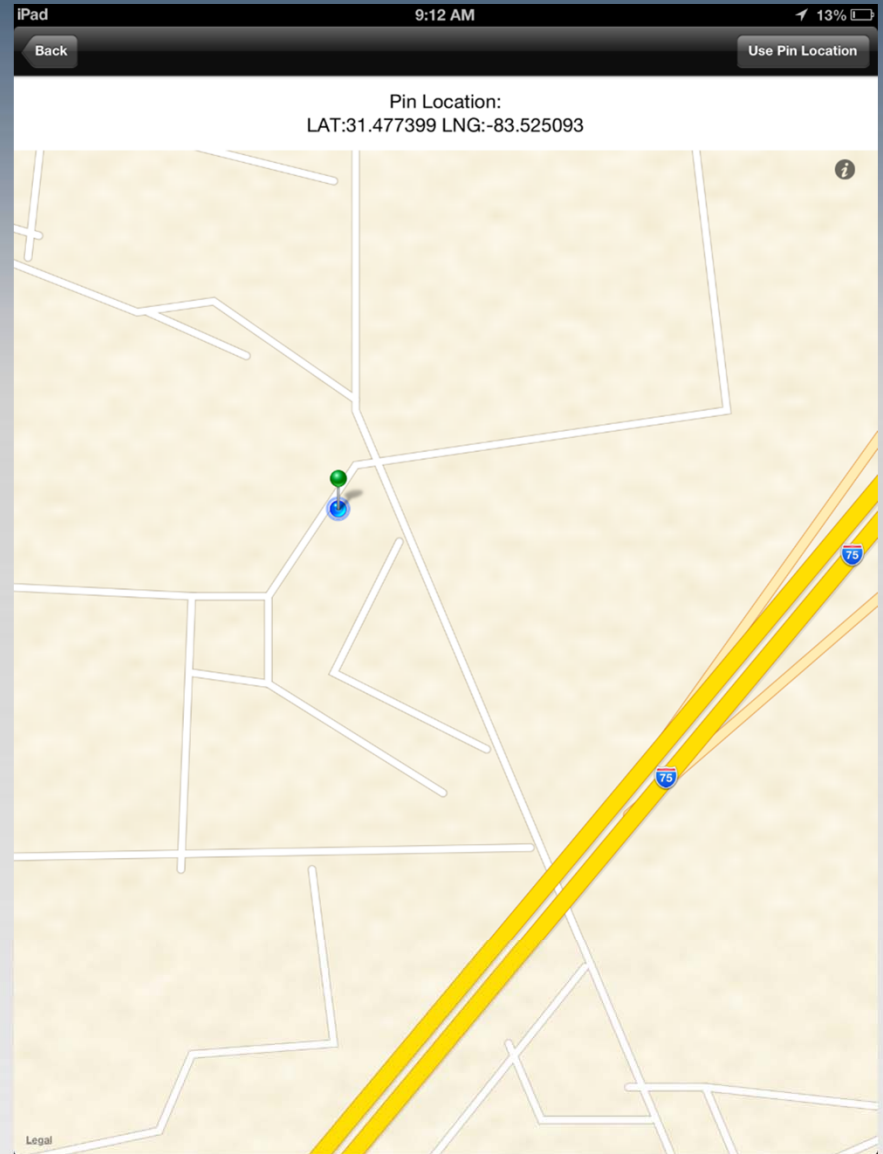
Body: Powerful limbs; thick tail

Pattern: Dark background body coloration, with 5 to 10 light crossbands composed of distinct circles; banding continues through end of tail

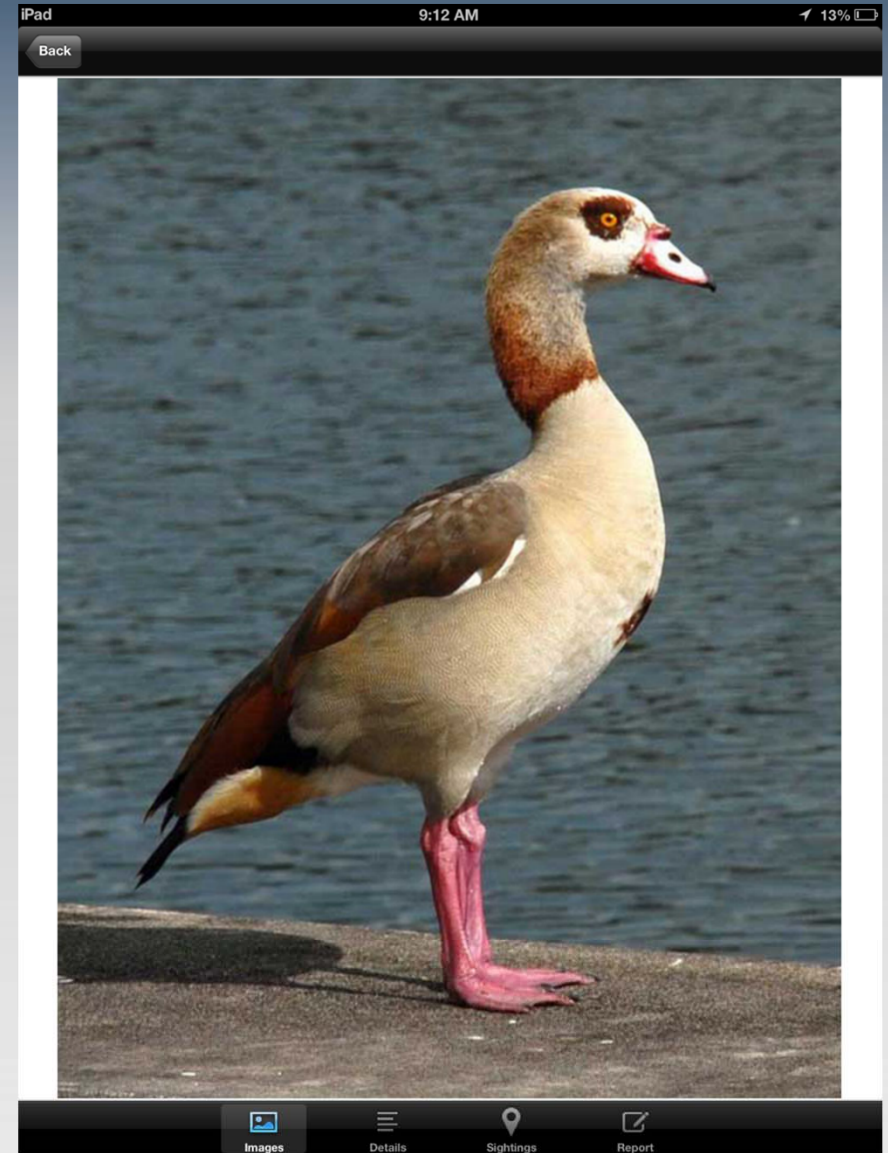
Head: Stripe present behind each eye; 3-5 triangular facial markings along face; dark blue-purple tongue

Notes: A large, well-established population is present in the area of Cape Coral, and sightings are becoming more frequent in Miami-Dade County.

Images Details Sightings Report



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EDDMapS

Early Detection & Distribution Mapping System

Invasive Species Mapping Made Easy!

- * Real time tracking of invasive species occurrences
- * Local and national distribution maps
- * Electronic early detection reporting tools
- * Library of identification and management information

EDDMapS is a web-based mapping system for documenting invasive species distribution. It is fast, easy to use and doesn't require Geographic Information Systems experience. Launched in 2005 by the Center for Invasive Species and Ecosystem Health at the University of Georgia, it was originally designed as a tool for state Exotic Pest Plant Councils to develop more complete distribution data of invasive species.

EDDMapS goal is to maximize the effectiveness and accessibility of the immense numbers of invasive species observations recorded each year.

Why do we care?

The biological pollution caused by invasive species is extremely challenging, because even if we never import another non-native species, the ones already invading our native ecosystems will continue to grow and spread. We must actively seek solutions to control or eradicate the species which are problems already or have the potential to become problems.

How does it work?

EDDMapS documents the presence of invasive species. A simple, interactive Web interface engages participants to submit their observations or view results through interactive queries into the EDDMapS database. EDDMapS encourages users to participate by providing Internet tools that maintain their personal records and enable them to visualize data with interactive maps.

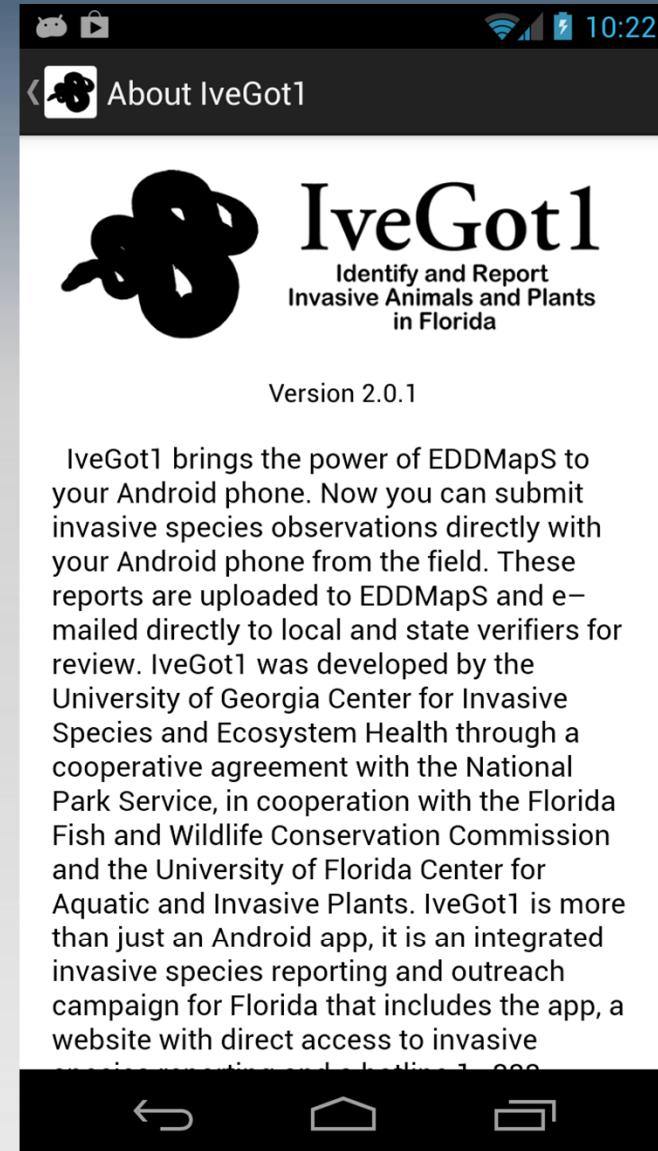
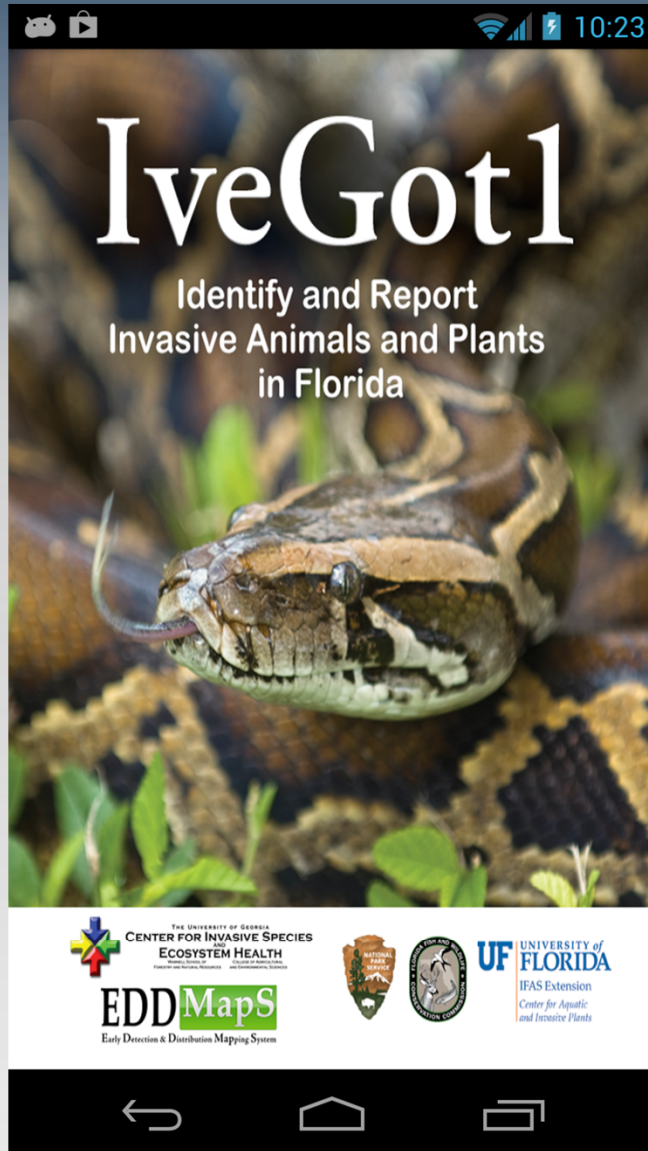
Users simply enter information from their observations into the standardized on-line data form, which allows specific information about the infestation and images to be added. Data entered is immediately loaded to the Website, allowing real time tracking of species. Being able to see the current data of a species as it moves into a new area helps to facilitate Early Detection and Rapid Response programs (EDRR). EDRR programs help stop or control an invasive species before it becomes an unmanageable problem.

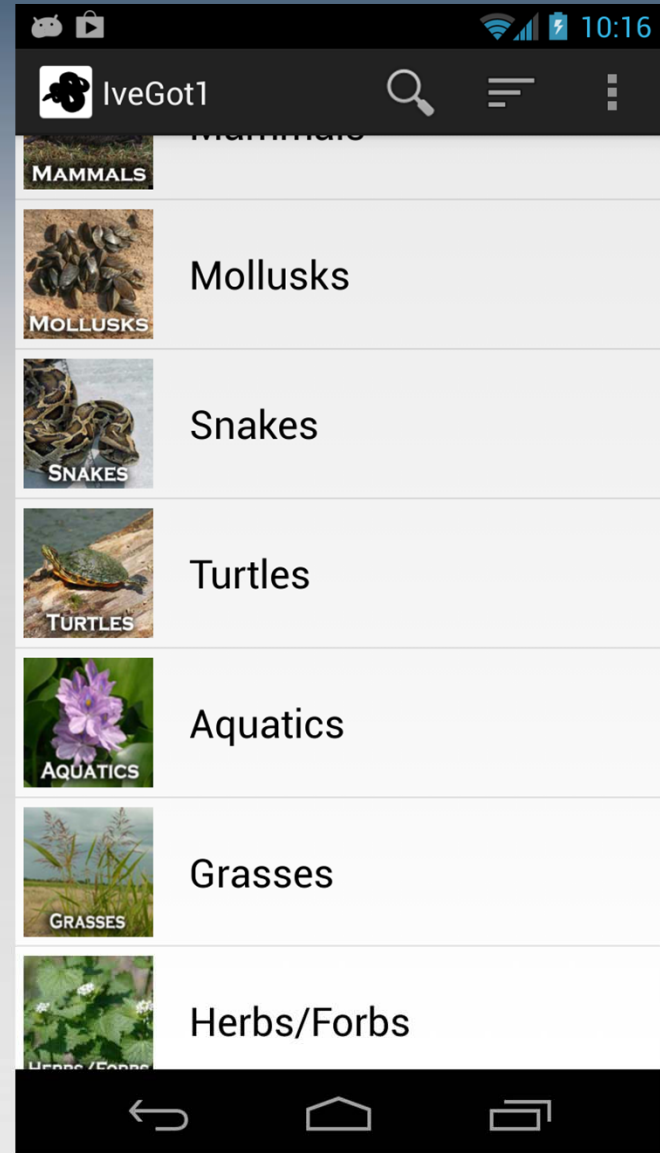
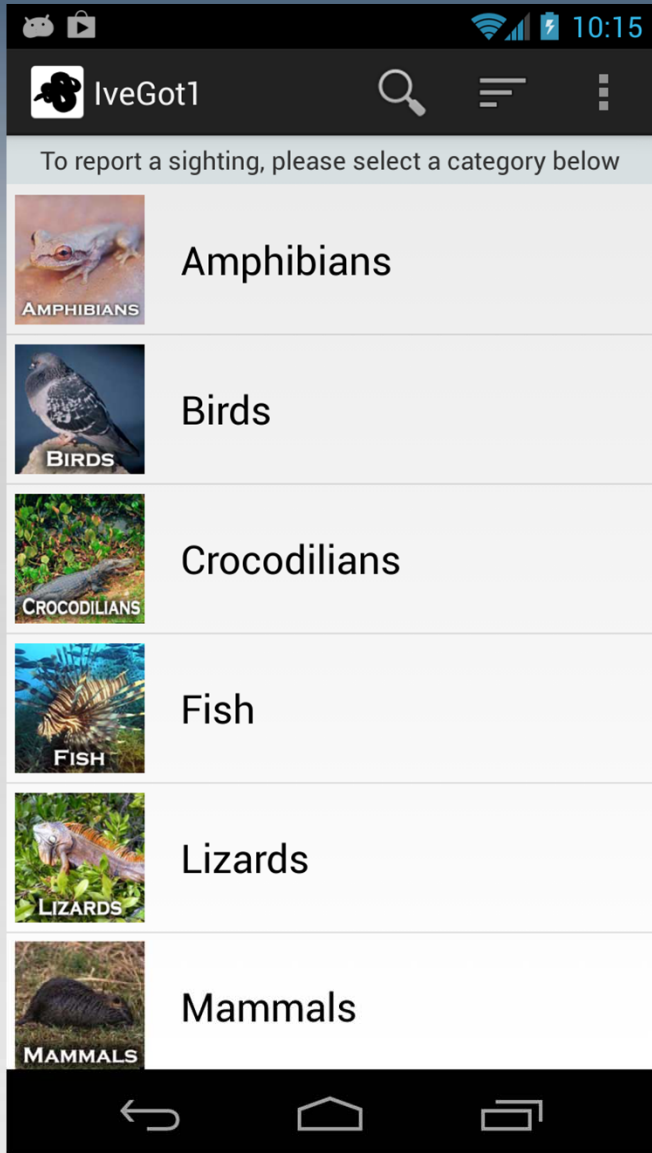
All data is reviewed by state verifiers to ensure all data is accurate. The data is made freely available to scientists, researchers, land managers, land owners, educators, conservationists, ecologists, farmers, foresters, state and national parks.

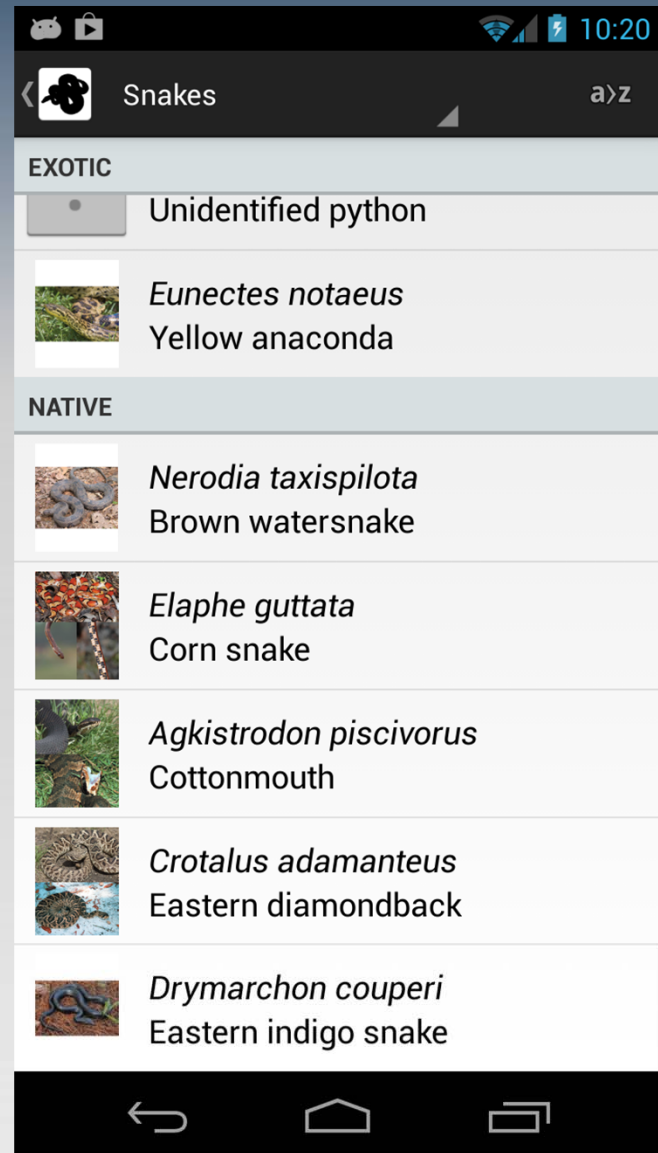
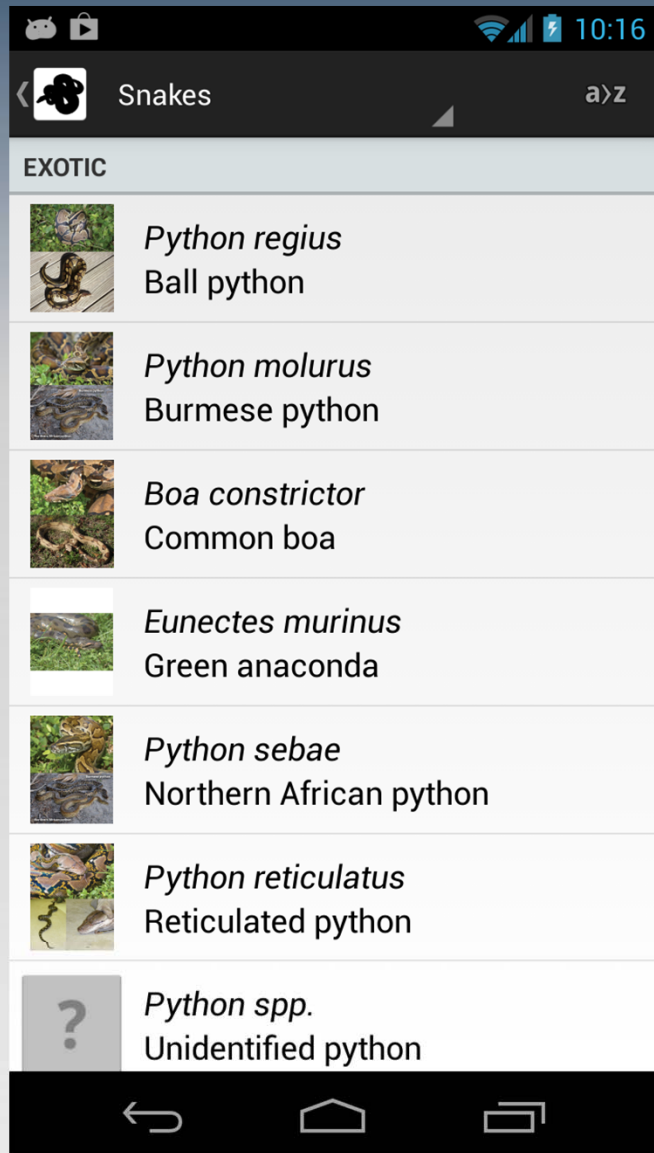


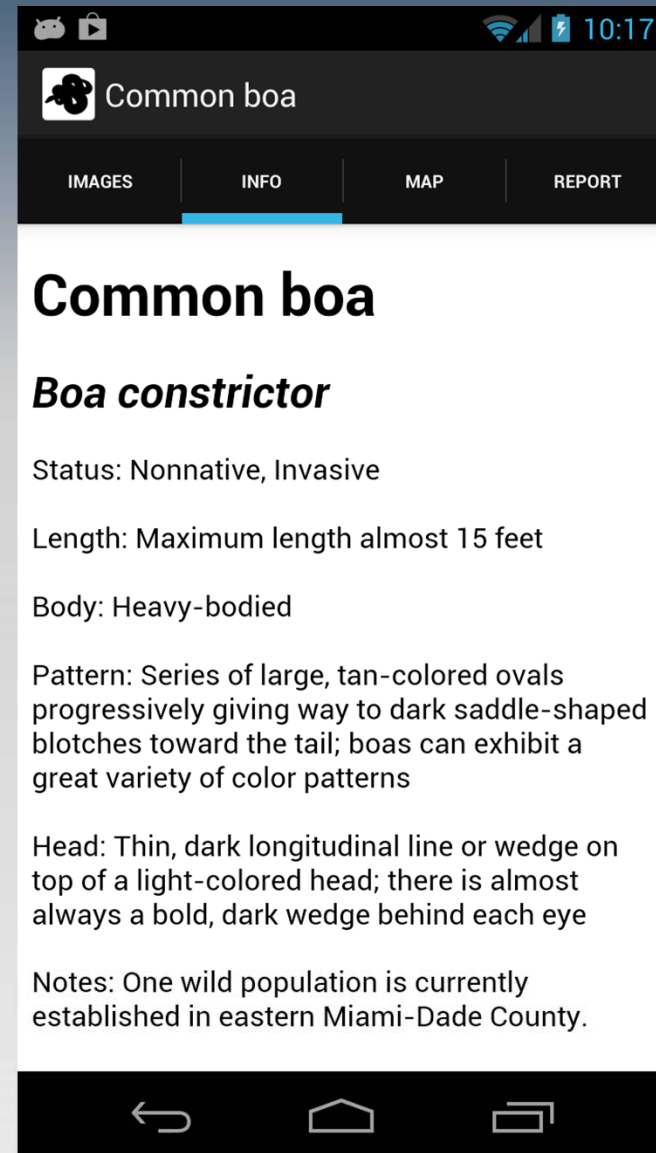
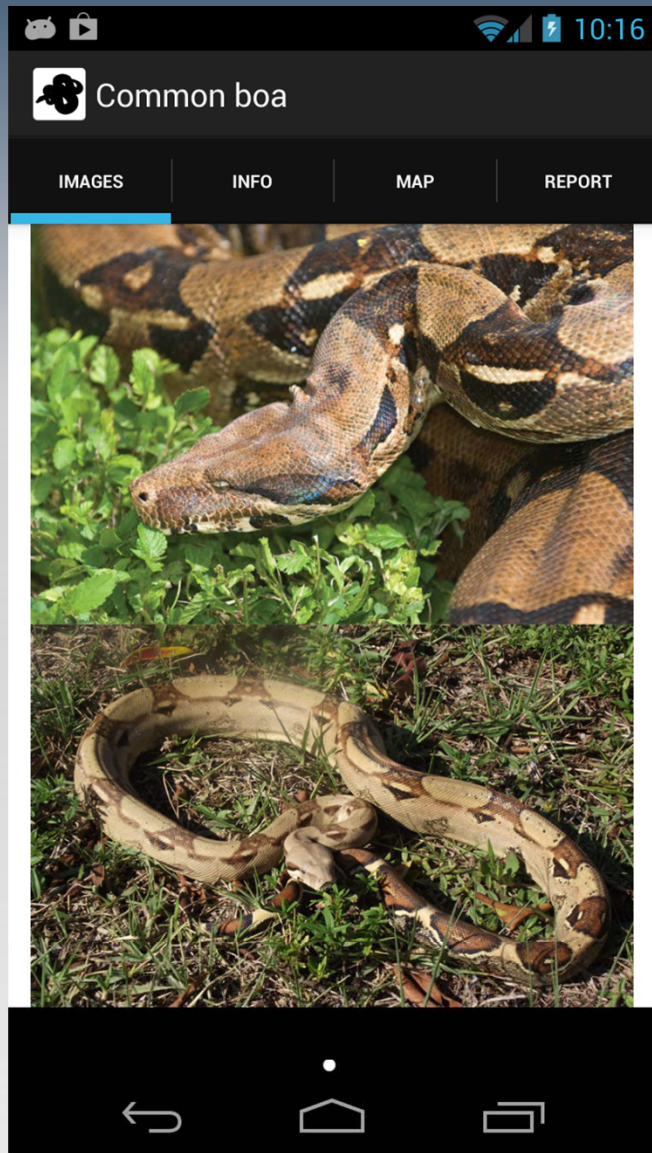
ANDROID

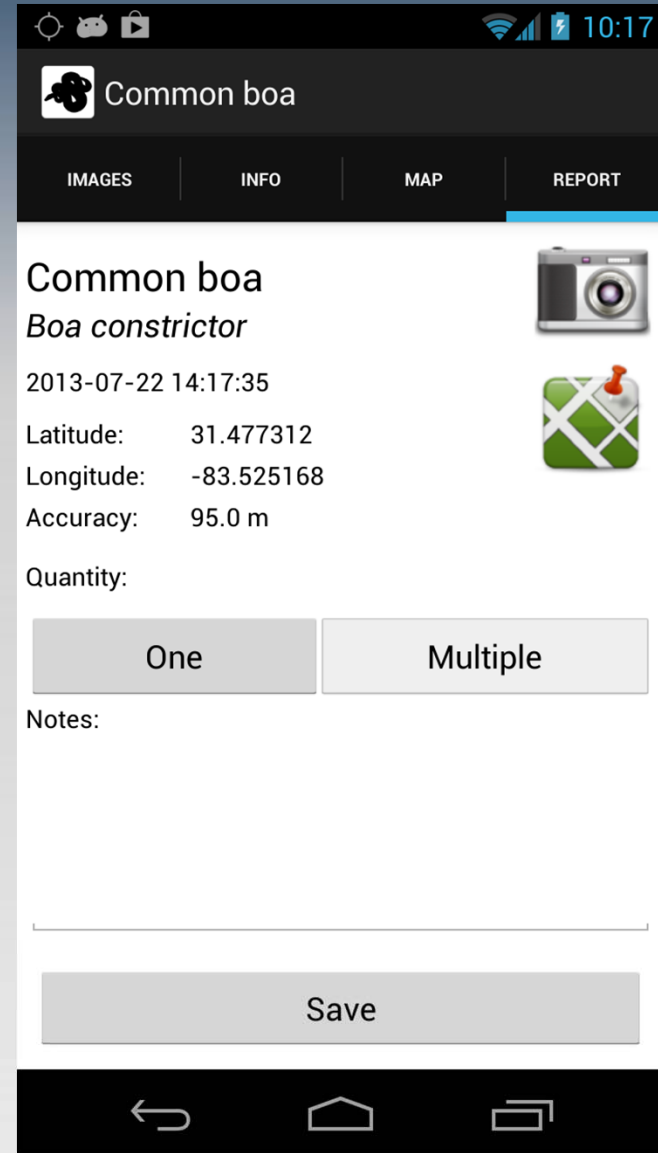
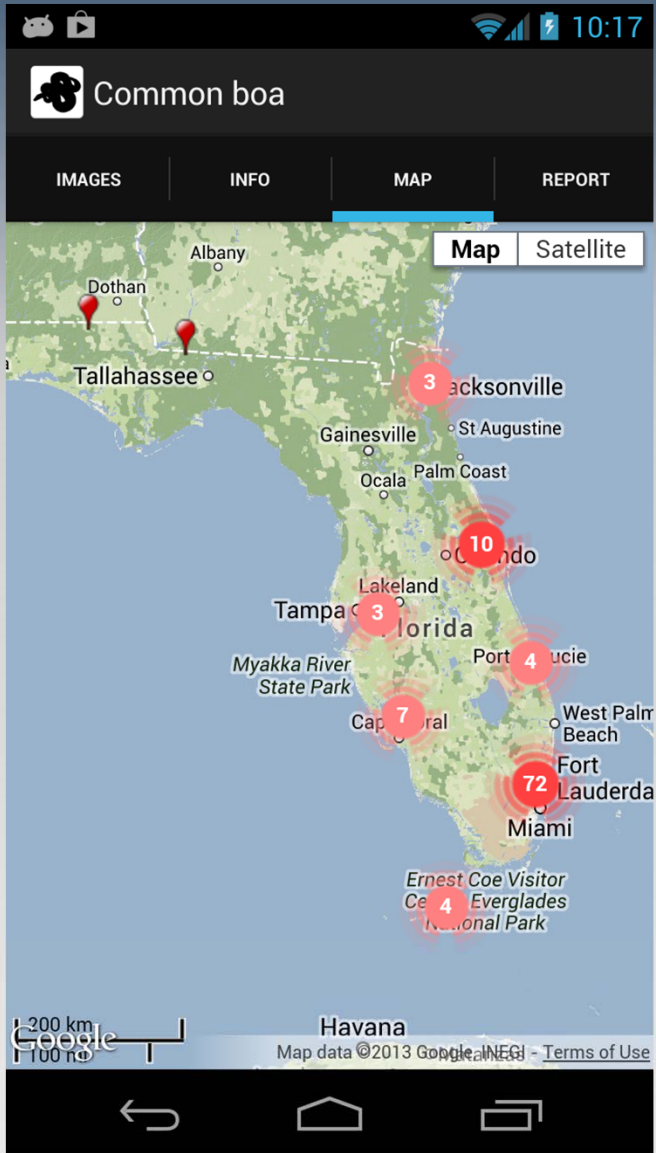
EVERGLADES CISMA

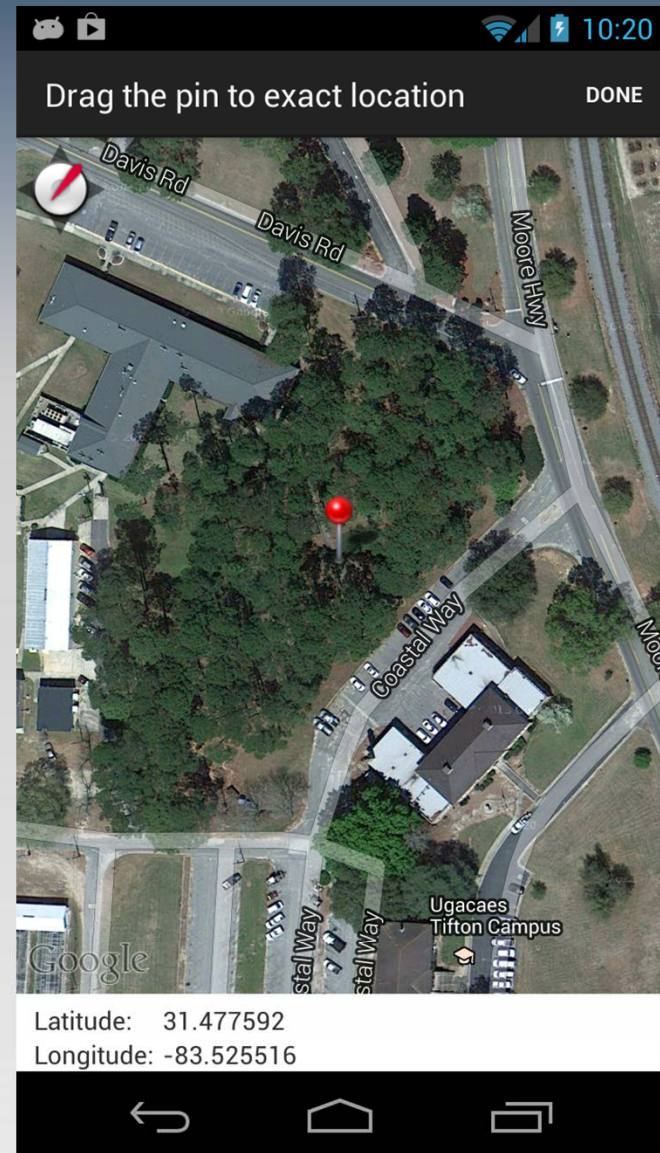
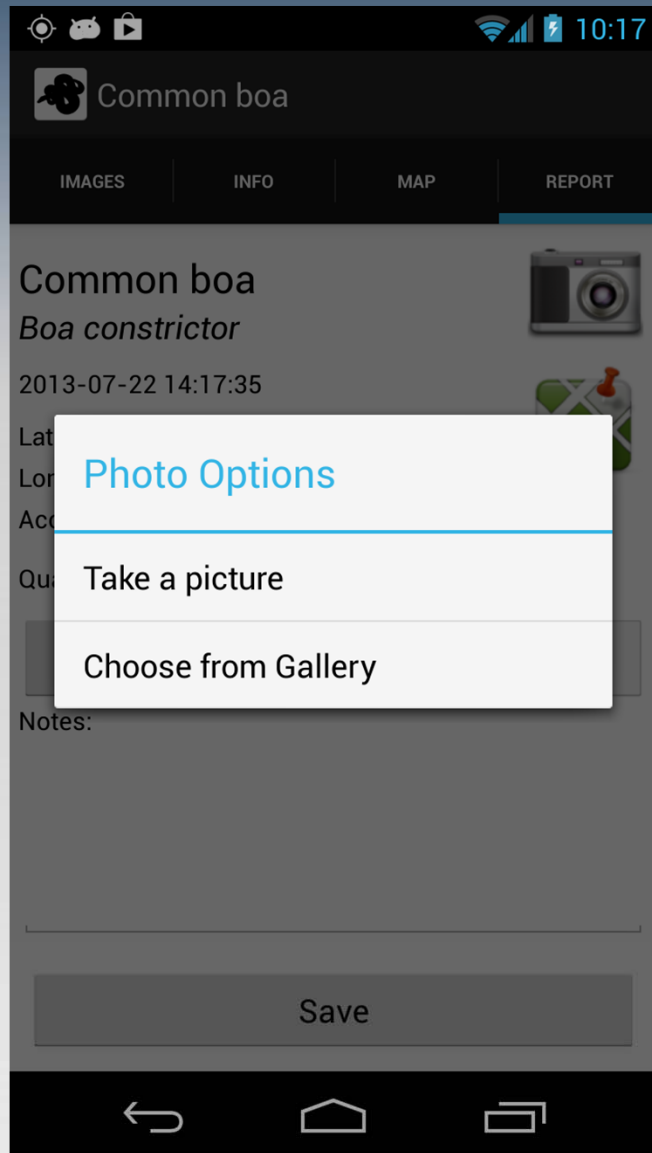


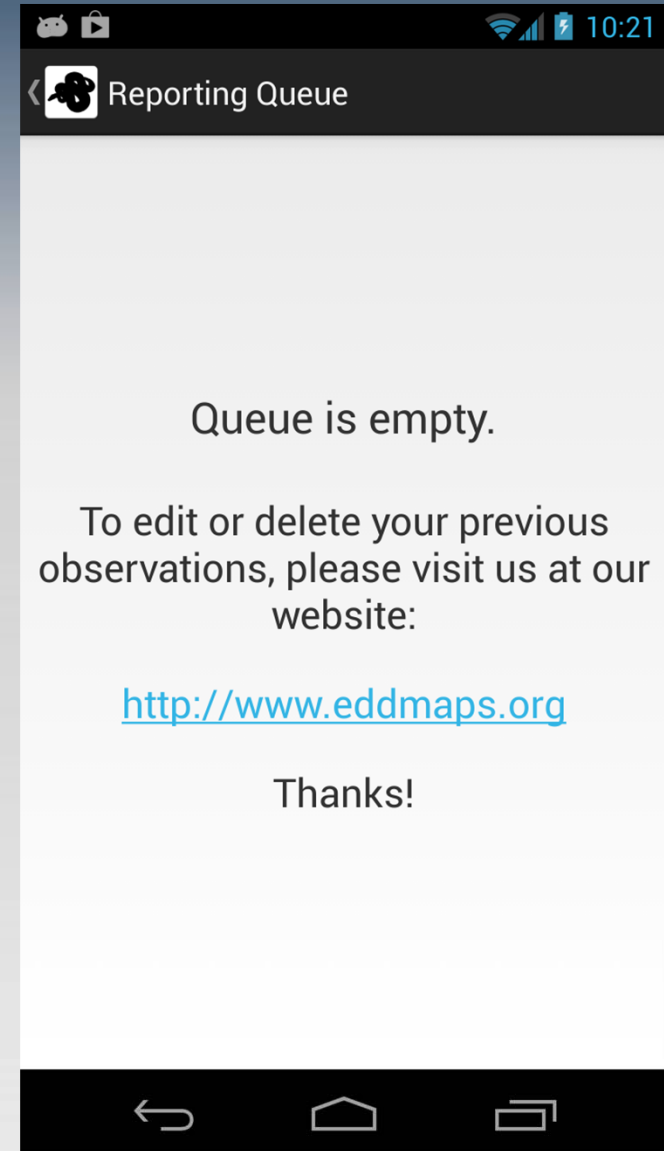
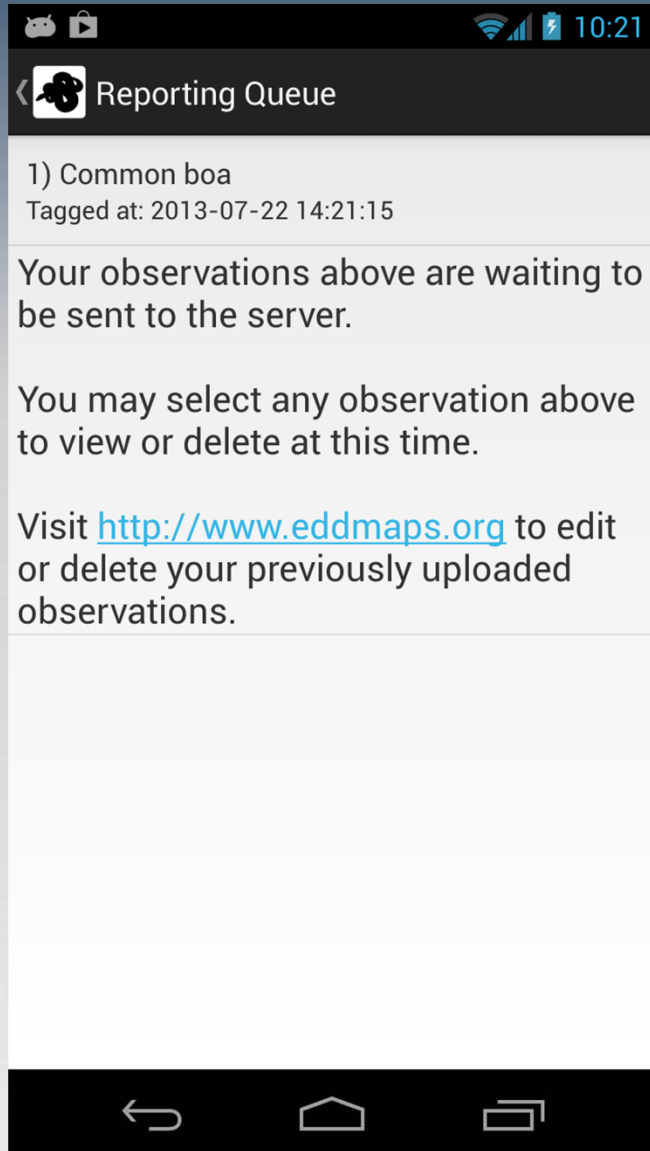


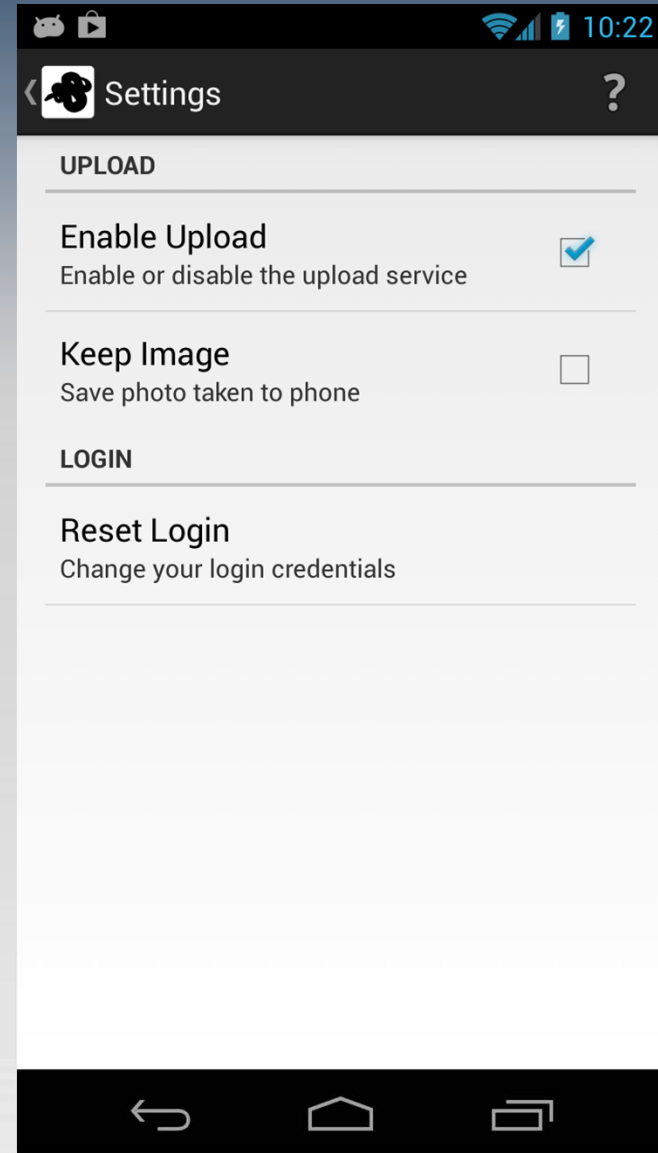
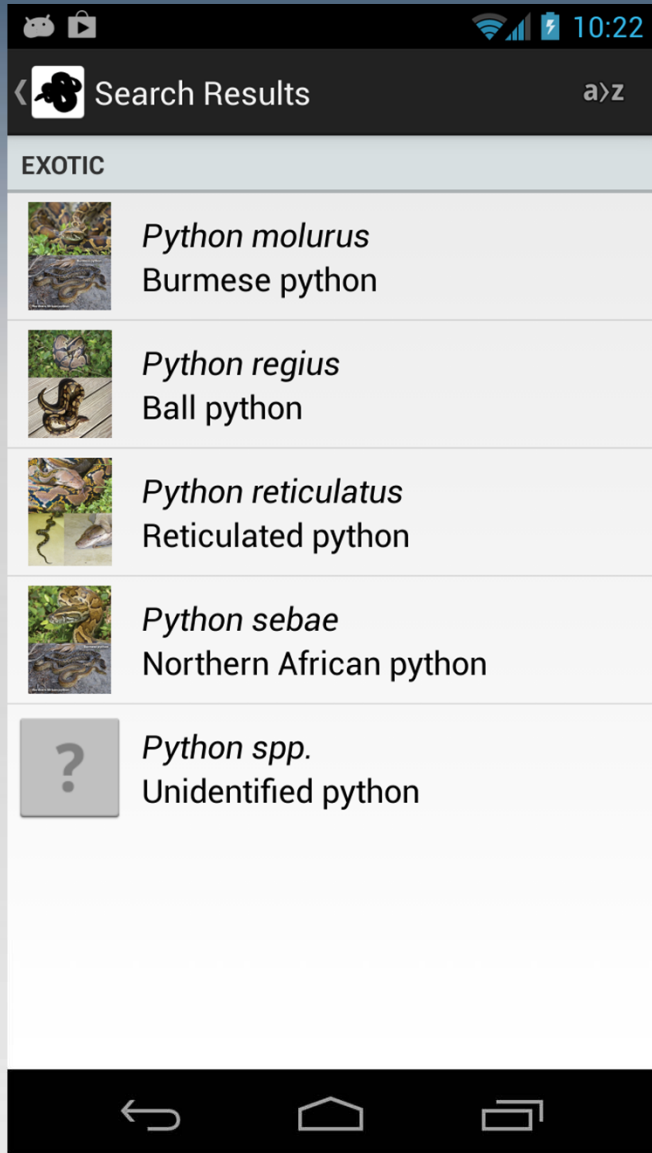














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ipcc web solutions

IPCCCONNECT INTEGRATION

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IPC Inventory is customized to suit the needs of the user

- Species lists
- Time stamps
- Photos
- Maps (.kml that can be imported to .shp)
- Individual species points
- Area polygons
- Species population area or of the entire survey area
- Infestation density

Mobile Management Tools

- Web Based Management Plans
- Online Safety Plans
- Online Handbooks
- Smart Phone and Tablet Apps



ipc web 
solutions

EVERGLADES CISMA



- Tools for IPC Crews and Clients to better document work flow in real time while in the field
- iPhone app – for photos and photo points
- iPad – for documenting daily work
- Web Interface – for supervisors, crews and clients
- Personalized

IPCConnect Overview

- Second season in production for Invasive Plant Control, Inc. crews
- Tracks photo points and polygons
- Tracks chemical use, travel and hours
- Combines power of EDDMapS with treatment knowledge of IPC

THANKS

Try out the new apps,
Send us feedback
cbargero@uga.edu

More info about IPCCconnect:
www.ipcwebsolutions.org
stevemanning@mindspring.com



BARBARA WALTON/EPA/LANDOV

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