

SOUTH CAROLINA DEPARTMENT OF NATURAL RESOURCES

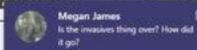
Reporting Exotic/Invasive Species in South Carolina

Combining Esri Technology with EDDMapS to Create a Collaborative Tracking Solution

Joe Lemeris, GIS/Data Manager Heritage Trust Program



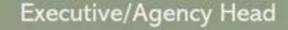
Live Life Outdoors





SCDNR Organizational Structure (Simplified):

Background



Office of Environmental Programs

Wildlife & Freshwater Fisheries

- · Management of WMAs, Heritage Preserves
- Statewide Program Biologists (Game, Nongame)
- Freshwater Fisheries Management
- DNR Forestry Program

- Land, Water, & Conservation
- Botany Program
- Aquatic Nuisance Species Program
- Conservation Districts

- Marine Resources
- Coastal Reserves & Outreach
- Marine Resources Research Institute
- Marine Fisheries Management

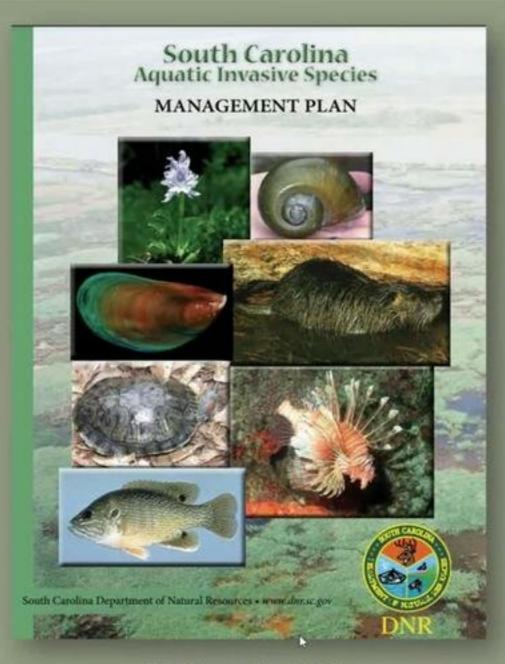
- Law Enforcement
 - Boating/Hunting Education & Programs
 - Conservation Officers

- Admin
- Office of Media & Outreach
- Information Technology/GIS

All listed programs have some involvement with non-native species management or education

...and more!!





Non-native species work in SC













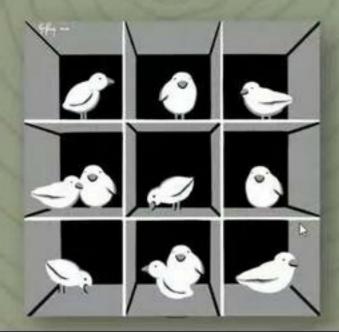
...and more...

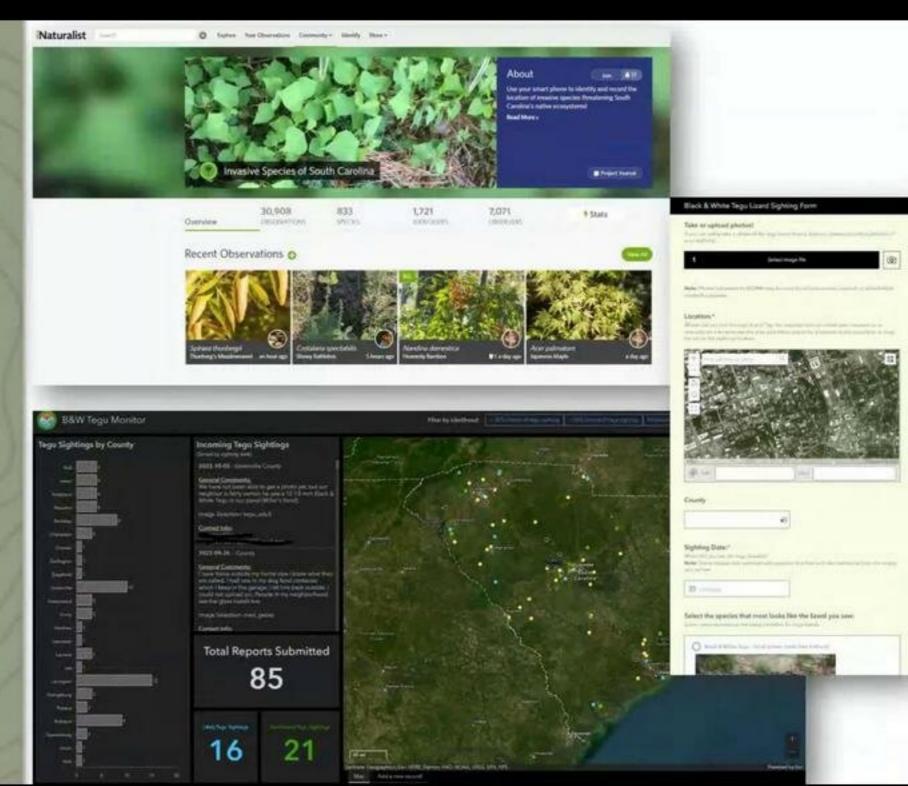


Published in 2008

Tracking of non-native species data to date

- Each agency has collected data through it's own program
 - Survey123 (organizational datasets using GIS)
 - iNaturalist
- Some data shared with national datasets, like USGS NAS

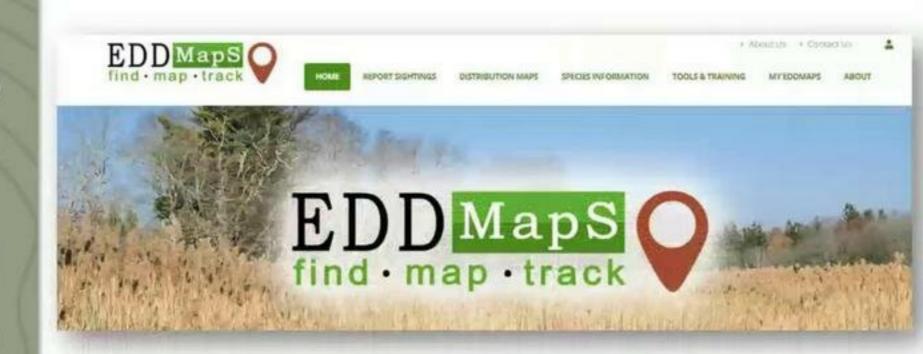




Enter: SCDNR Injurious/Invasive Wildlife Working Group

- First meeting in 2020
- Brought together staff from all divisions within SCDNR (other agencies i.e. USGS)
- Focused on a solution to develop an overarching non-native reporting database across taxa
- Great News: It already exists!
 - EDDMapS staff regularly attended meetings to answer questions about functionality.





EDDMapS—Early Detection and Distribution Mapping System

Invasive Species Mapping Made Easy!

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



Criteria for SCDNR:



	Must be connected/branded	as
	an SCDNR-oriented product	



EDDMapS interface is continent-wide, but embedded features available for specific states

Must allow for any non-native species to be reported



EDDMapS maintains a list of all regulated and emerging non-native plants, insects, fungi/diseases and wildlife.

Must be able to support submissions by the public



EDDMapS interface requires a login; embedded feature contains a workaround for public use

Must allow for data verification



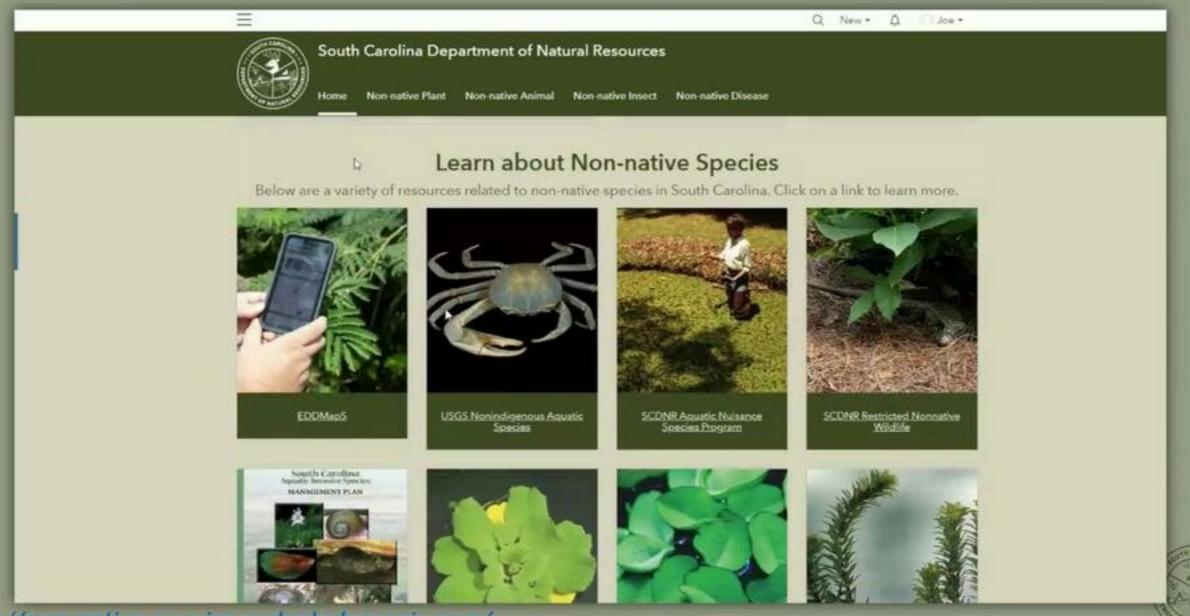
Users from state agencies can be assigned as verifiers to confirm/follow up with questionable records

Ability to pull from external records preferred.



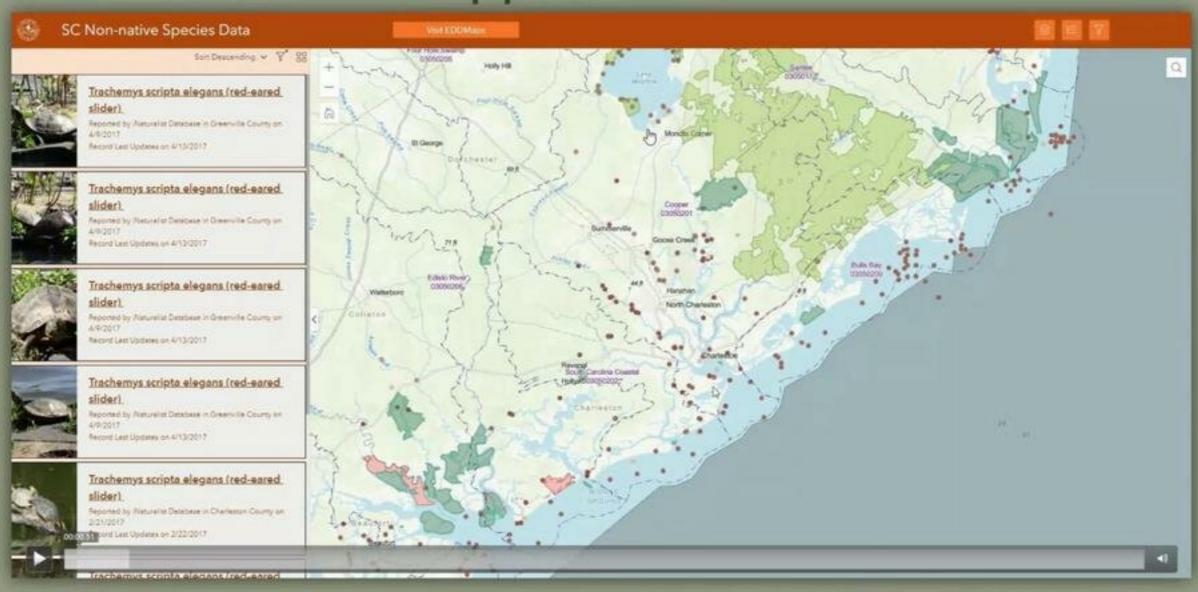
Regular updates from iNaturalist database, with more APIs anticipated in the future

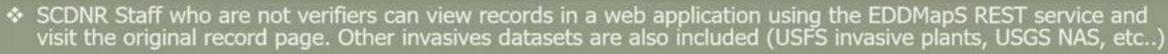
Integration with ArcGIS Hub for rapid deployment



https://non-native-species-scdnr.hub.arcgis.com/

SCDNR Reviewer application







What's Next:

- SCDNR featuring new site on landing page (dnr.sc.gov) as of this morning!
- Multiple unique social media posts will feature the site over the course of several months
- SCDNR verifiers have already begun working through existing records for release
- Tool should allow for better communication and rapid response to invasive threats across divisions as new observations are submitted





rain and extremely dry conditions.



D

Learn About + Report **Non-Native Species**

Non-Native Species

SCDNR has partnered with EDDMapS for the public to be able to report their sightings of potentially invasive species in the state to protect South Carolina's natural resources.



More about non-native spe

Information

About DNR

Boat Ramps

Calendar

Climate

Conservation

Contact Us

Divisions

EmploymentOpportunities

Licensing

Harine

Public Lands

Online Data

Recreation

Support DNR

Welcome to the South Carolina Department of Natural Resources

Whether you need to purchase a hunting or fishing license, want to get a refresher on the rules and regulations, or simply want to know where you should go, our agency provides resources to help anyone prepare for their next outdoor adventure.



Buy a license

Purchase your licenses, tags and permits through Go Outdoors SC. South Carolina's online licensing and boat titling system.



Rules & Regulations

Learn what's new in the 2022-23 rules and regulations.



Office & Property Locations

Find SCDNR's office locations around the state as well as holidays and property closures.













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