

The Florida Shorebird Alliance: Partnering to monitor shorebirds

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Florida Shorebird Alliance

Florida Fish & Wildlife Conservation Commission (FWC)



Today's outline

- Florida Shorebird Alliance
- Monitoring protocols & database
- AMOY update from Florida 2013





Today's outline

• Florida Shorebird Alliance





20 shorebird & seabird species nest in Florida

Snowy Plover



Maxis Gomez/GVISIONS.ORG

American Oystercatcher



Photo by Jack Rogers

Killdeer



Photo by Jack Rogers

Willet



Photo by Jack Rogers

Wilson's Plover



Photo by Mia McPherson

Black-necked Stilt



Photo by Jack Rogers

Seabirds nesting in Florida





More seabirds (Dry Tortugas only)

Brown Noddy Anous stolidus



Photo: Judd Patterson

Masked Booby Sula dactylatra



Photo: Chris Burney

Magnificent Frigatebird Fregata magnificens



Photo: Judd Patterson

Sooty Tern
Onychoprion fuscatus



Photo: Chris Burney



They nest on ground and rooftops!







Threats

On beaches

- Predators native & nonnative (pets)
- Human disturbance
- Beach raking & engineering
- Habitat loss



On rooftops

- Avian predators
- Human disturbance (e.g., AC repairs)
- Chick mortality (chicks fall off roofs)



Photo: Dave Kandz



Numerous conservation needs...

- Many protected species
- Over 1200 miles of coastline
- Many threats...





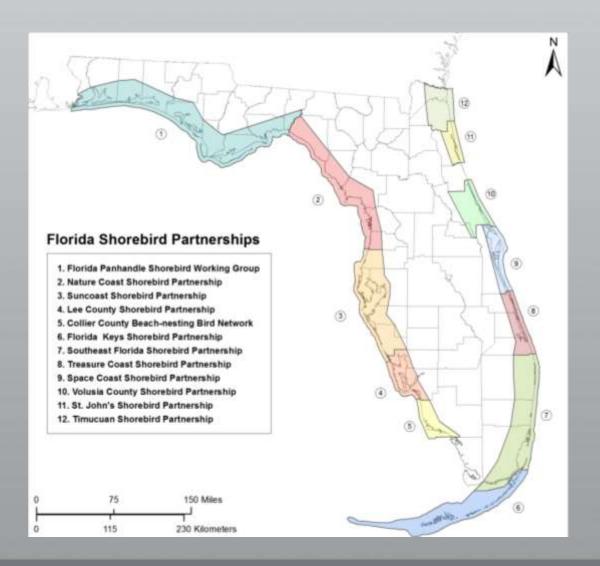
Photo: John Herrick

Protecting shorebirds requires teamwork!





FSA local partnerships







FSA monitoring program

- How does it work?
 - Develop protocols & data repository
 - Recruit partners
 - Train monitoring volunteers
 - Local partnerships provide in-field training & mentoring
 - Annual webinars on protocol & data entry
 - Provide support (helpdesk)
 - Data Quality Control



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Florida's Breeding Bird Protocol

Breeding Bird Protocol for Florida's Seabirds and Shorebirds

For use with the Florida Sharehird Database (FSD)



Created By: Florida Fish and Wildlife Conservation Commission Questions? Please contact FLShorebirdDatabase@MyFWC.com

- Provides for consistent data collection and reporting
- Explains terms and methods
- Provides biological background
- Contains all data sheets
- Available online at: <u>www.FLShorebirdDatabase.org</u>

Florida Shorebird Database (FSD)

- Based on protocol
 - Online forms match paper forms
- Online, real-time
- Google map interface
- Route-based system



www.flshorebirddatabase.org



Training tools





What are we monitoring?

- Nesting activity of focal species
 - Pre-nesting birds
 - Nest locations & outcomes (plus optional details)
 - Chick sightings (by age class)

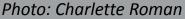




When are we monitoring?

- Monthly count windows:
 - March 18-24
 - April 15-21
 - May 13-19
 - June 10-16
 - July 8-14
 - August 5-11
- More frequent (~weekly)
 checks on active sites







Where are we monitoring?

- Coastal areas:
 - Beaches
 - Barrier islands
 - Spoil islands
 - Oyster bars
- Open areas with sand or gravel
 - Gravel rooftops
 - Other artificial habitat(e.g., landfills)



How are we monitoring? Step 1: Conduct surveys

Rooftops: Check historic sites

for birds...

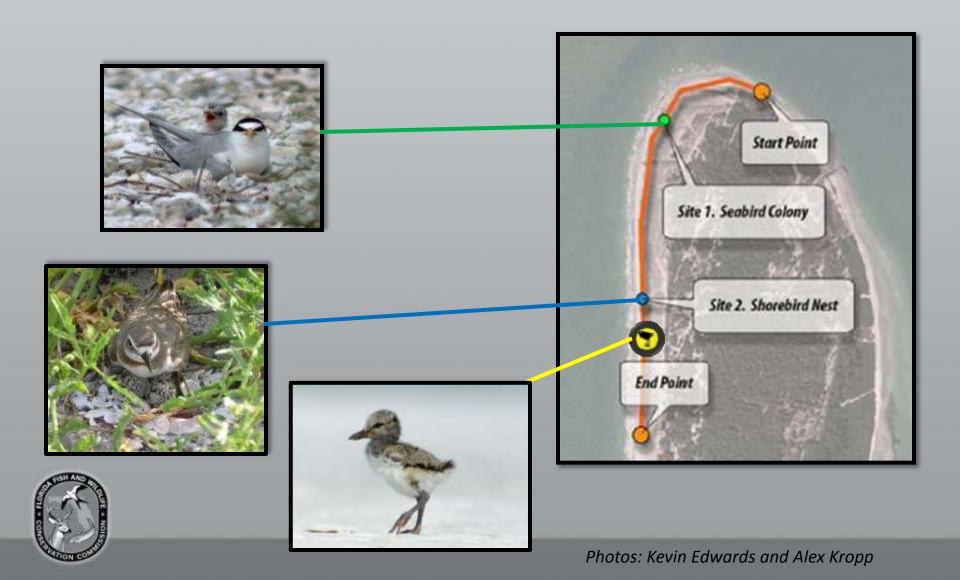


Routes: Survey routes and report all breeding activity





Step 2: Report location of nests, chicks



Step 3: Report site status & details



Pied oystercatcher– broken wing display (Photo: Clare M./ 10000birds.com)

Pre-/potential nesting

Active

- Nest with eggs/nestlings
- Adult incubating, brooding, or "broken wing"

No Longer Active

- What was the outcome?
 - Did at least one chick leave the nest? If not, cause of nest loss?

Optional info

Disturbance, wrack, etc.



Step 4: Report banded birds

- Note color, position, codes of bands/ flags
- Take GPS location & photo if possible
- Report on FSD forms
- Report to researchers see directory on FSA website:



Photo: Pat Leary

www.flshorebirdalliance.org/resources-pages/bands.html



What does partner data tell us?

- Breeding & chick-rearing locations (real-time)
- Disturbances & threats
- Changes in abundance, distribution, productivity, and population trends over time
- Progress towards recovery goals

A Species Action Plan for Four Imperiled Beach-Nesting Birds:

American oystercatcher (Haematopus palliatus) Snowy plover (Charadrius nivosus) Least tern (Sternula antillarum) Black skimmer (Rynchops niger)

March 1, 2013





Florida Fish and Wildlife Conservation Commission 620 South Meridian Street Tallahassee, FL 32399-1600 Visit us at MvFWC com



Non-nesting Protocol coming soon!

- Field-tested over past 5 years
- Now in final review; to be released Jan. 2014
- FSD component to be launched winter 2015
 - Same accounts/routes as breeding surveys





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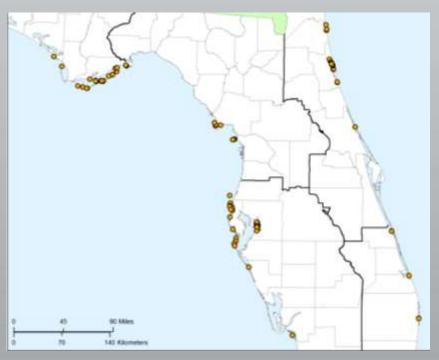




2013 AMOY update -

Partner data

- FSA partners reported 186 AMOY nests statewide
 - 67 nests hatched
 - 23 nests fledged chicks
- 53 pre-/potential nesting sites



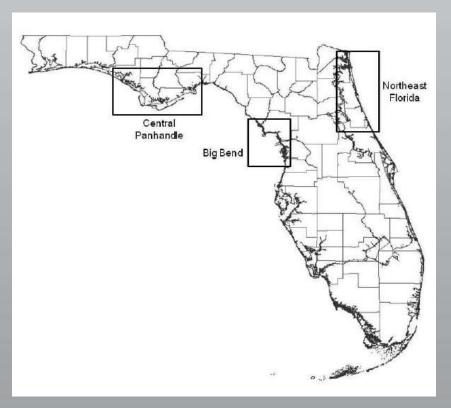
Map: Jeanne Baker

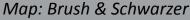


2013 AMOY update -

Brush & Schwarzer breeding report

- Surveyed study areas every 7-14 days
- Banded 7 adults & 10 chicks
- Resighted 38 individuals
 117 times
- Tracked 54-62 breeding pairs and monitored 70 nests







2013 AMOY update –

Brush & Schwarzer breeding report

- Low reproductive success in 2013:
 - 22% of monitored nests hatched
 - Most nests failed due to coyotes (panhandle) and overwash (NEFL & Big Bend)
 - 9 chicks fledged (productivity=0.23 fledged chicks per breeding pair; 0.18 fledged chicks per active nest)





Photo: FWRI

2013 AMOY update -

Cedar Key wintering project (I)



- FWC researchers & Peter Frederick (UF)
- Phase I (10/11 2/12)
 - 6 "blitz" airboat surveys
 - 3 night surveys to find roosts
 - Microhabitat sampling
- Roosting habitat is limiting factor
- Manuscript in progress

2013 AMOY update – Cedar Key wintering project (II)

- Phase II: Restoration
 - NFWF awarded funding!
 - Stabilize 2 existing high-use roosts (support ~90% of the area AMOY) using derelict clam bags.
 - Reduce erosion, increase bar elevation/area, and attract colonization by oysters.
 - Monitor sediment dynamics & AMOY use of roosts following restoration.
- For more info: <u>Janell.Brush@myfwc.com</u>





Contact us at shorebird@myfwc.com or 863-370-6305

www.FLShorebirdDatabase.org

