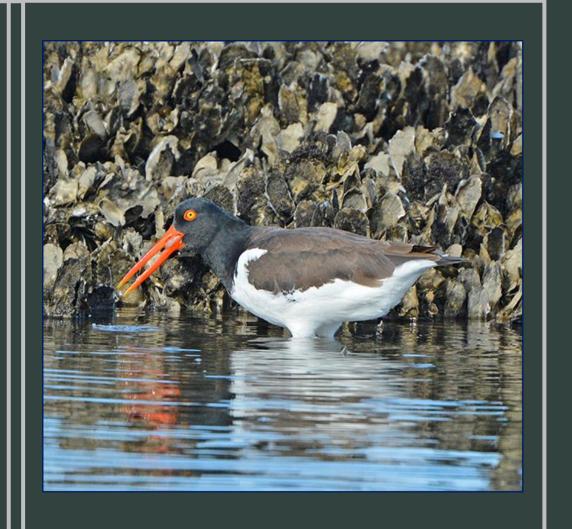




- Solitary nesting shorebird
- State listed as threatened
- Strong nesting site fidelity
- Territorial
- Semi-precocial chicks
- Commonly found nesting on shell rakes and small islands
- Every nest site is important



- Dependent on coastal areas that support intertidal shellfish beds
 - Oysters
 - Mussels
 - Crabs
- High-tide roost and nesting locations adjacent to foraging habitat





US Atlantic and Gulf Coasts

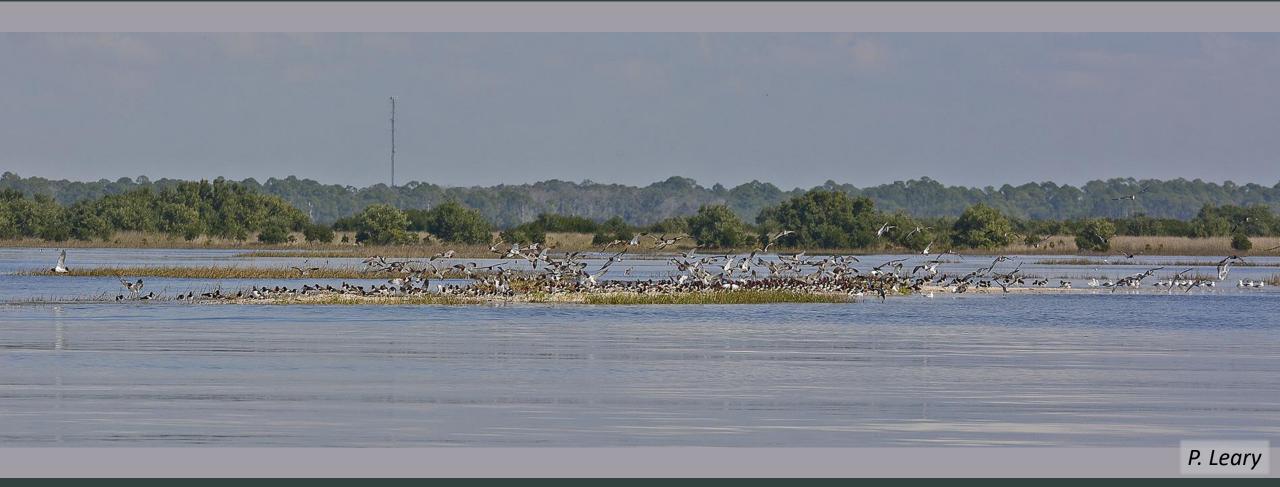
Florida

Nature Coast



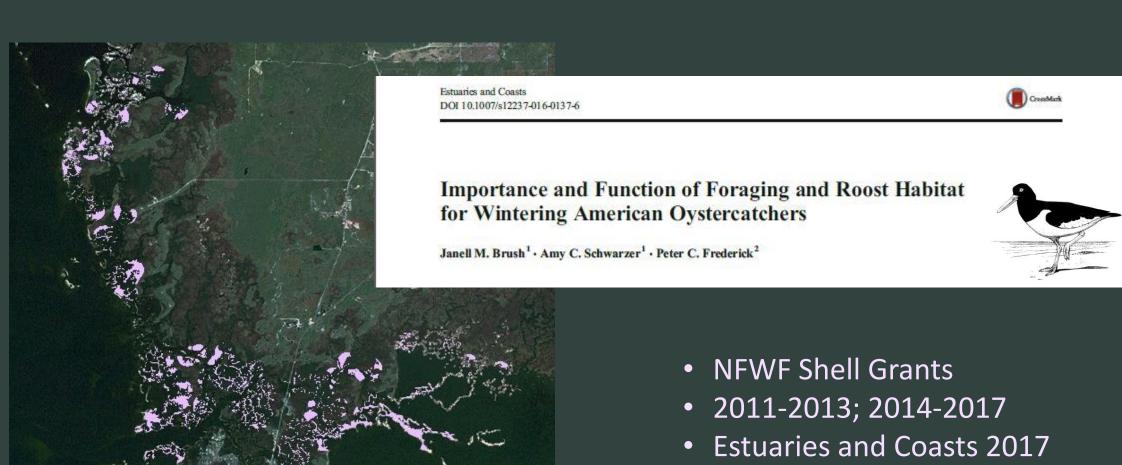


Wintering American Oystercatchers





Wintering American Oystercatchers



Cedar Key



Wintering American Oystercatchers

- Prey availability
 - 95% of prey items were oysters
 - 37 minutes* of foraging per day to satisfy daily energy needs

*biased high



Not currently limited by prey availability



Limiting Factor: High Tide Roosts

- Offshore reefs
 - Documented declines
 - Eroding at accelerated rates
 - Small number of available roosts
- Optimal view of approaching predators
- Overlap with areas of recreational use
- Costs associated with suboptimal roost locations



Roost Enhancement: Cedar Key







Measuring Success

- Project sustainability
 - Increased reef area, elevation, oyster resettlement
 - Withstood storms and Hurricane Hermine
- Economic impacts
 - Stimulate local economy and develop project support
- Wintering oystercatcher survival and site fidelity
 - Manuscript in prep





US Atlantic and Gulf Coasts

12,453 Birds

0.47 chicks/pair

Florida

470 Breeding Birds

0.38 chicks/pair

2,800 Wintering Birds

Nature Coast

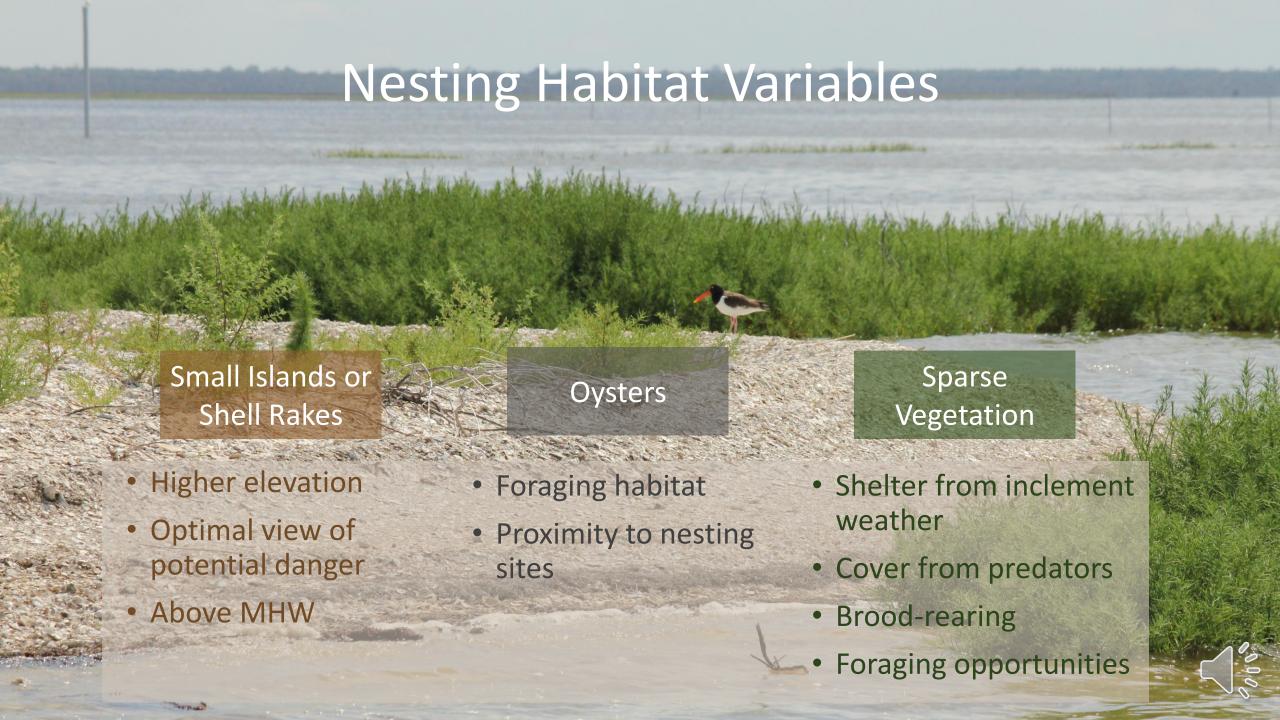
124 Breeding Birds

0.21 chicks/pair

1,900 Wintering Birds





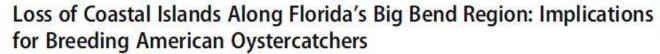






Breeding American Oystercatchers

Estuaries and Coasts https://doi.org/10.1007/s12237-020-00811-3





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Habitat Changes



ECOSPHERE

Decadal changes in oyster reefs in the Big Bend of Florida's Gulf Coast

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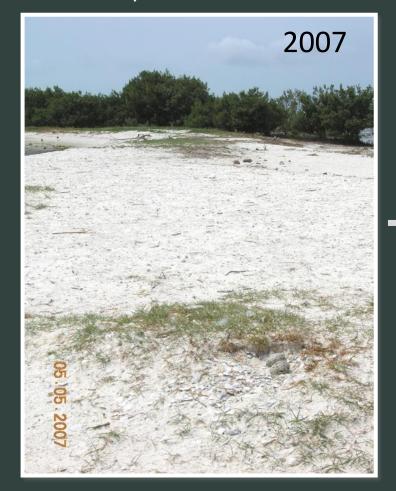




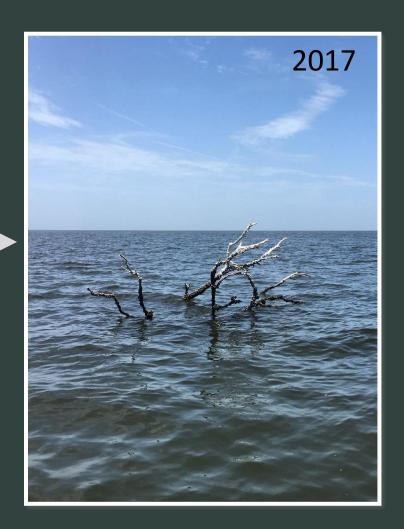


Disappearing Islands

Derrick Key

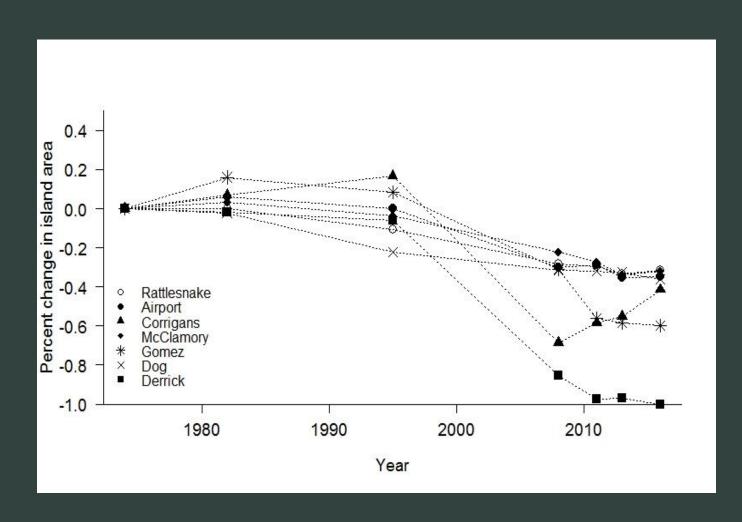


10 Years





Disappearing Islands



- Total area of nesting islands around Cedar Key decreased by 39% between 1974 and 2016
- 85% of this decrease was after 1995
- Reduction in extent of oyster reefs in the area



Gomez Key Habitat Enhancement

Goal: Restore and conserve bird nesting and foraging habitat

