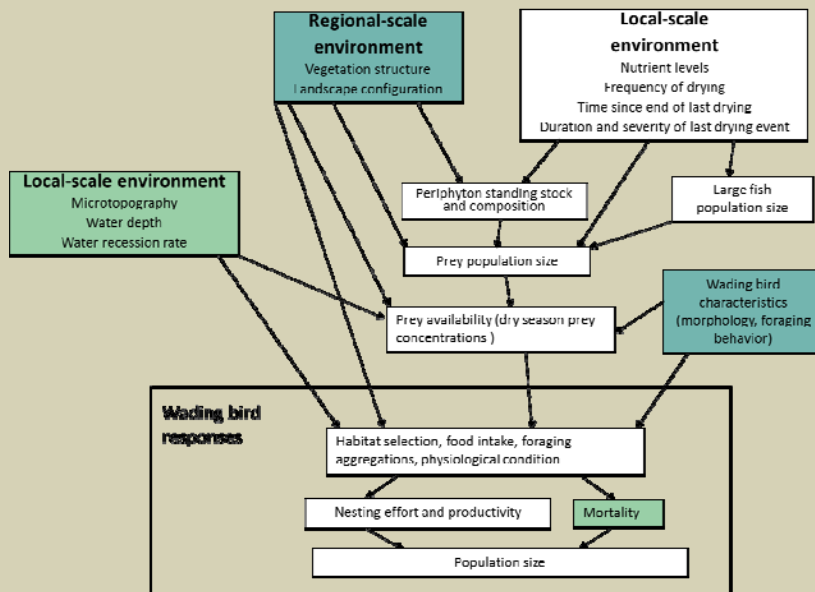


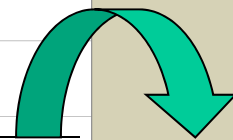
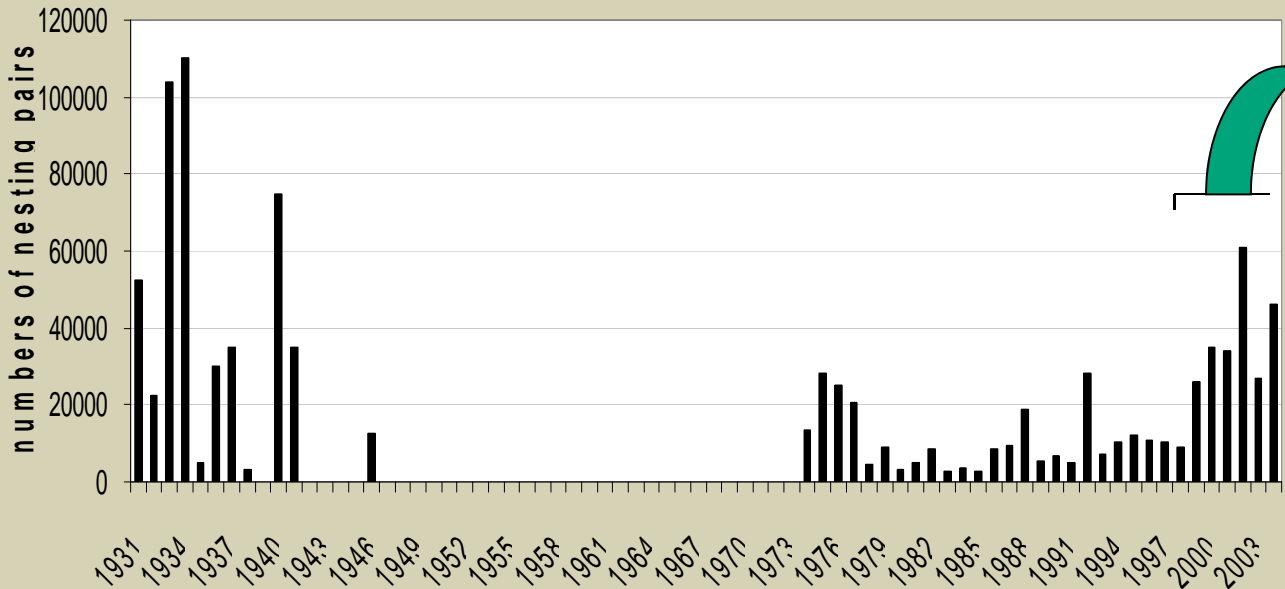
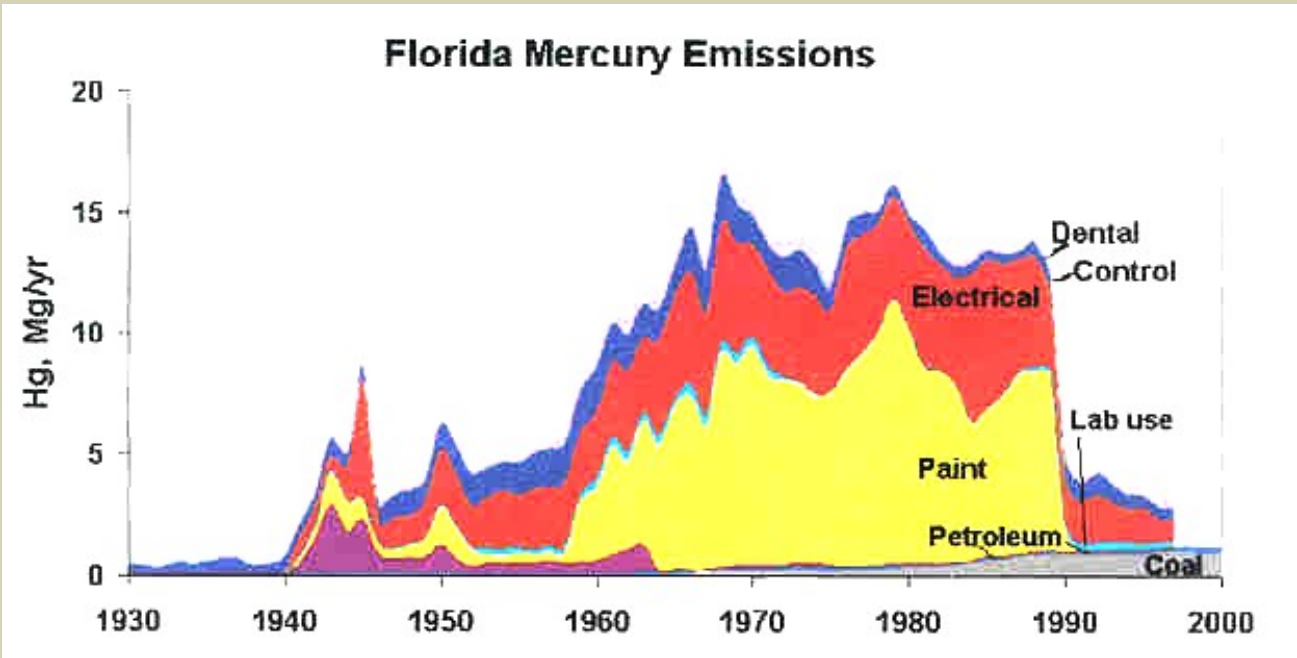
Uncertainties in predictions of trophic hypothesis under future restoration

Future contamination

Distant magnets

Novel predators





90% reduction in tissue mercury

Increase in nests by 3X

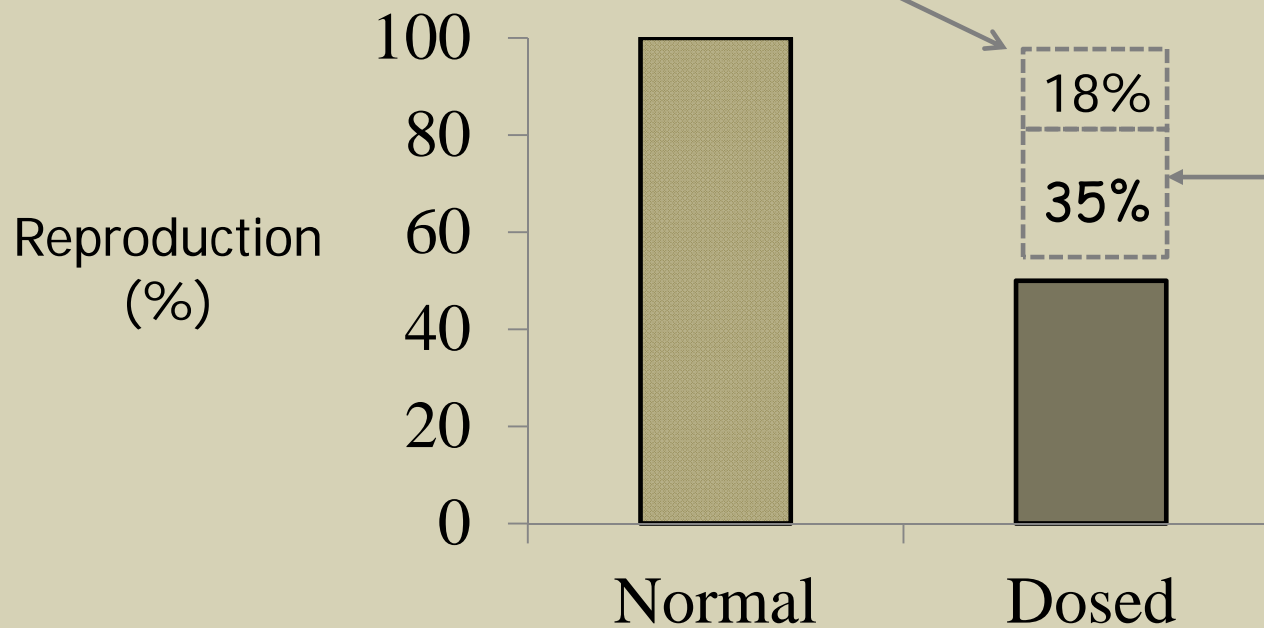
Effects of methylmercury at Everglades exposure levels



Homosexual pairing
No Eggs

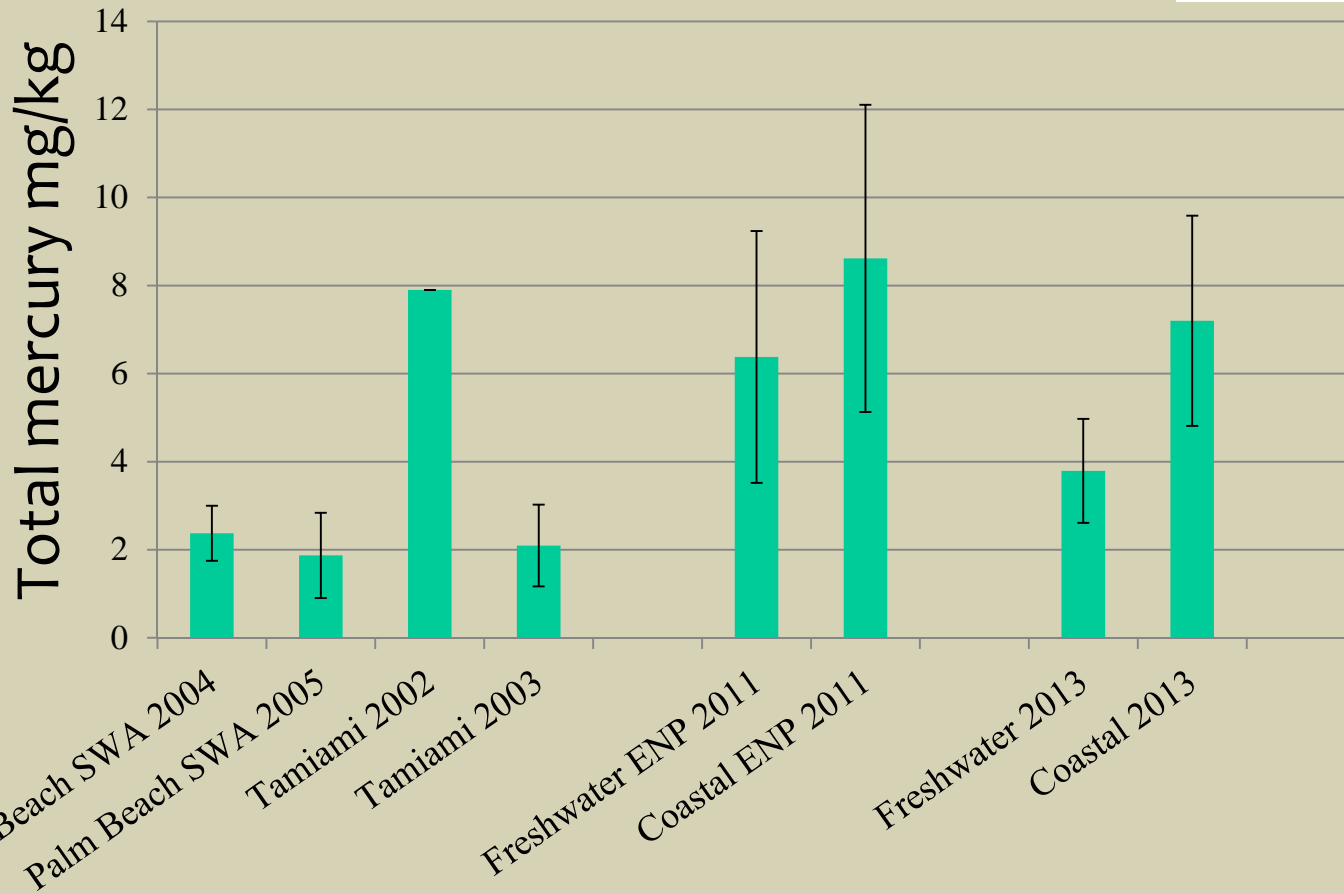
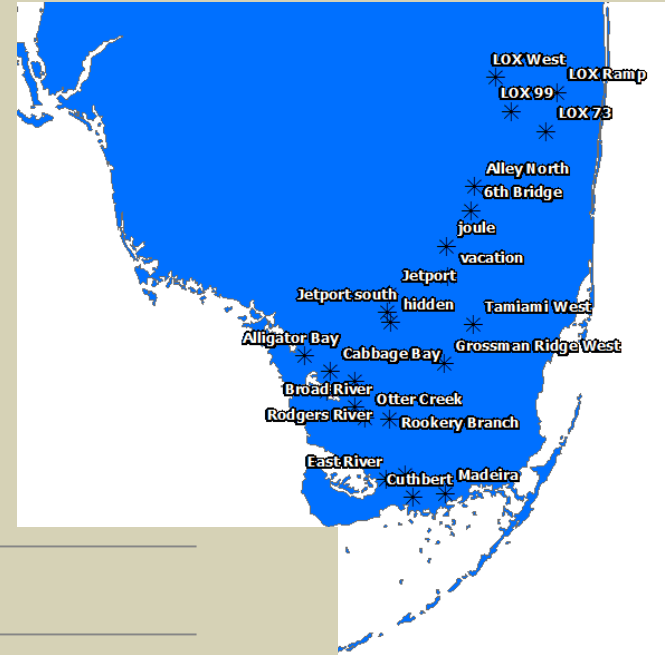


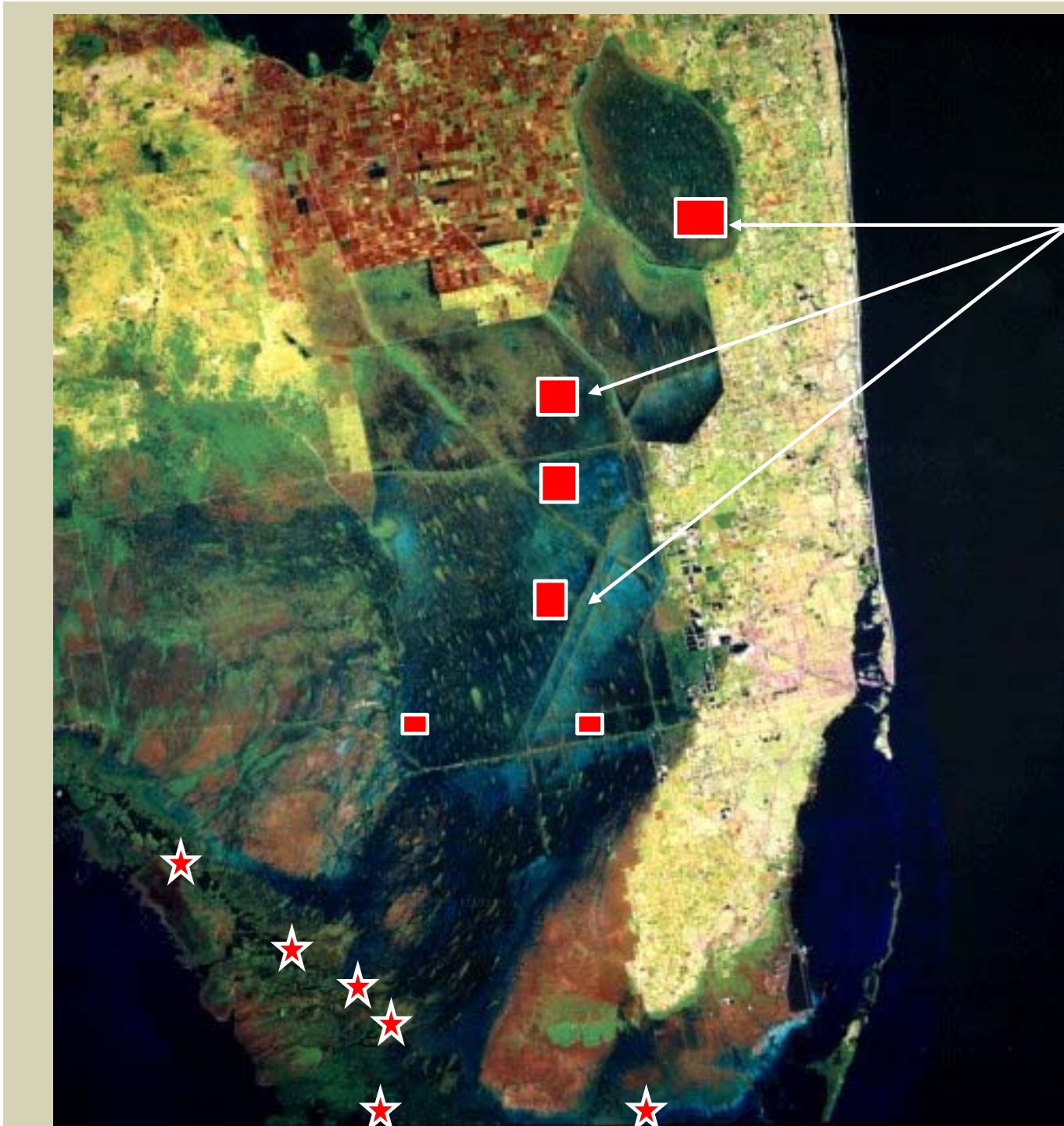
Heterosexual pairing
Poor parenting





Wood Stork nestling feather Hg



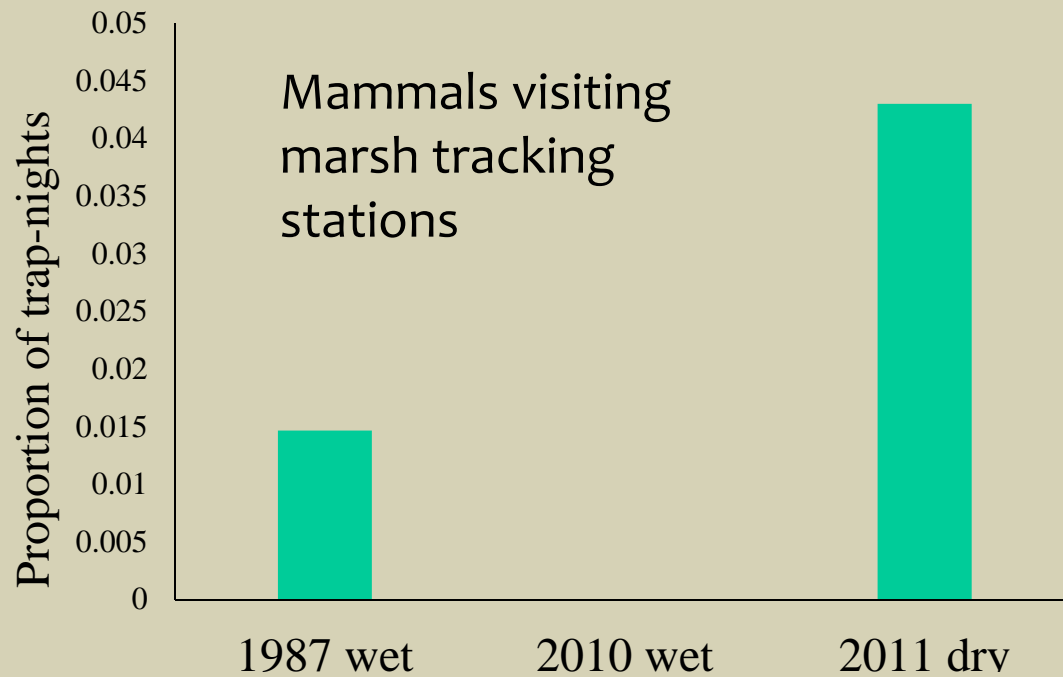
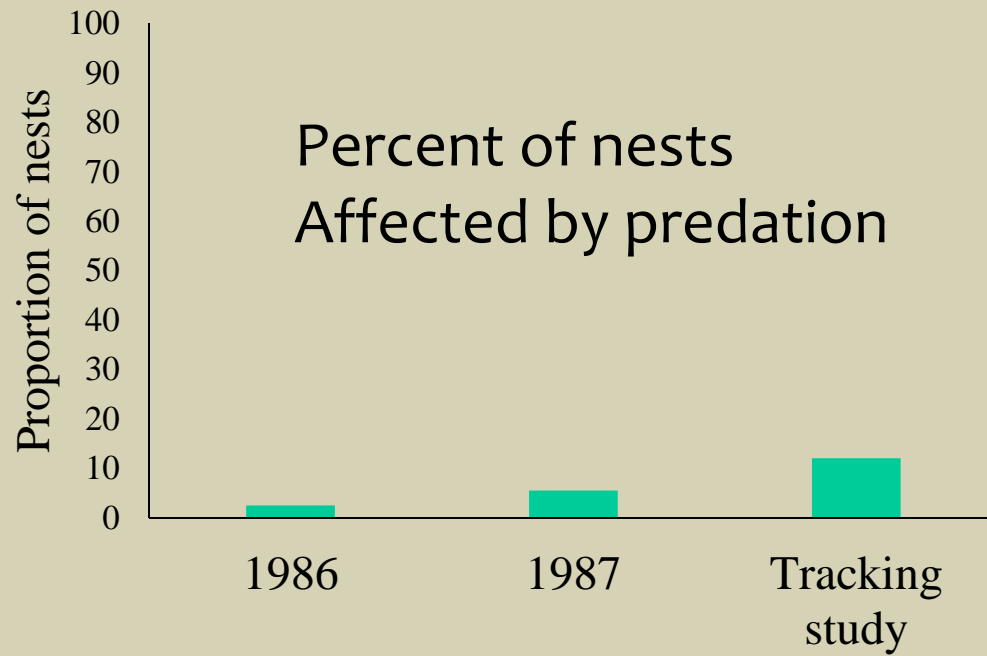


Mercury Contamination

Inland colonies now Relatively clean

Coastal colonies remain at risk of HG contamination

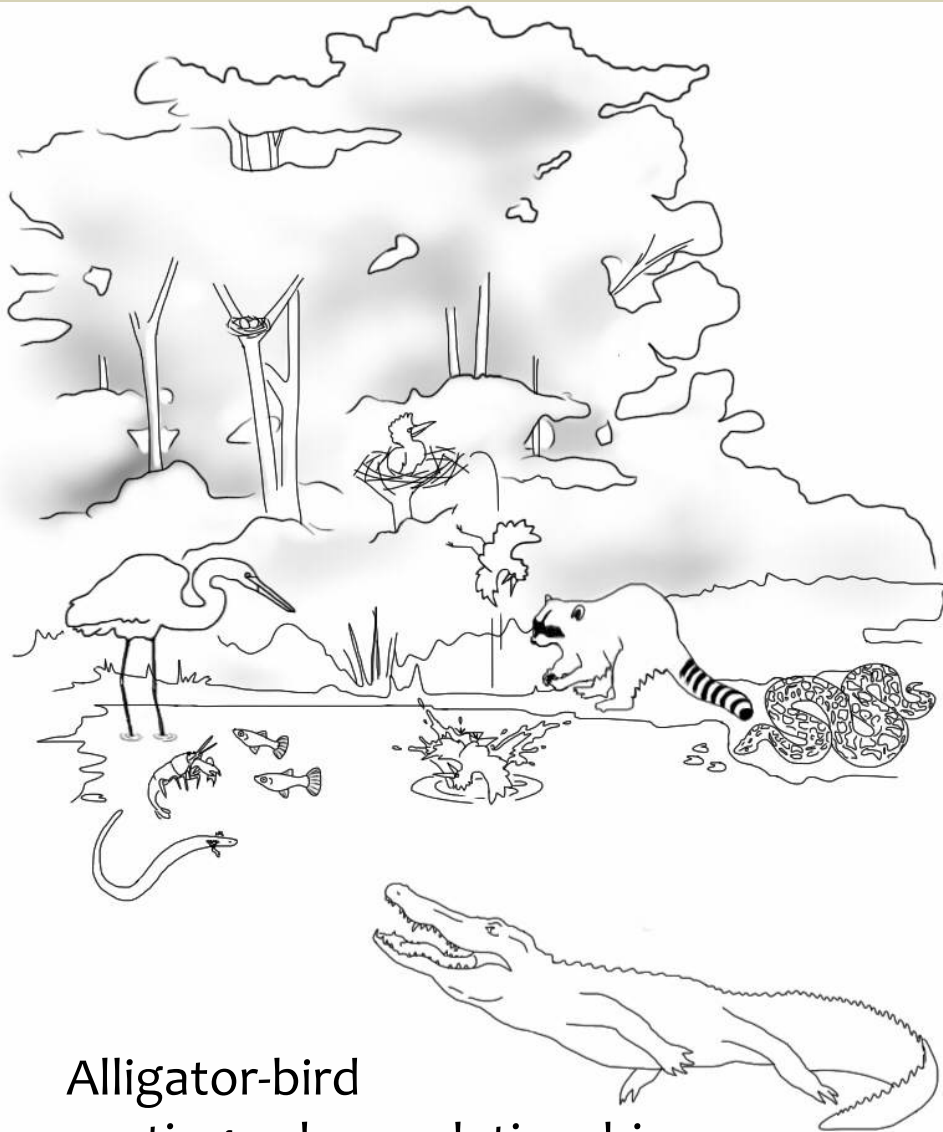
H1. Hydrological restoration will move birds back to coastal regions



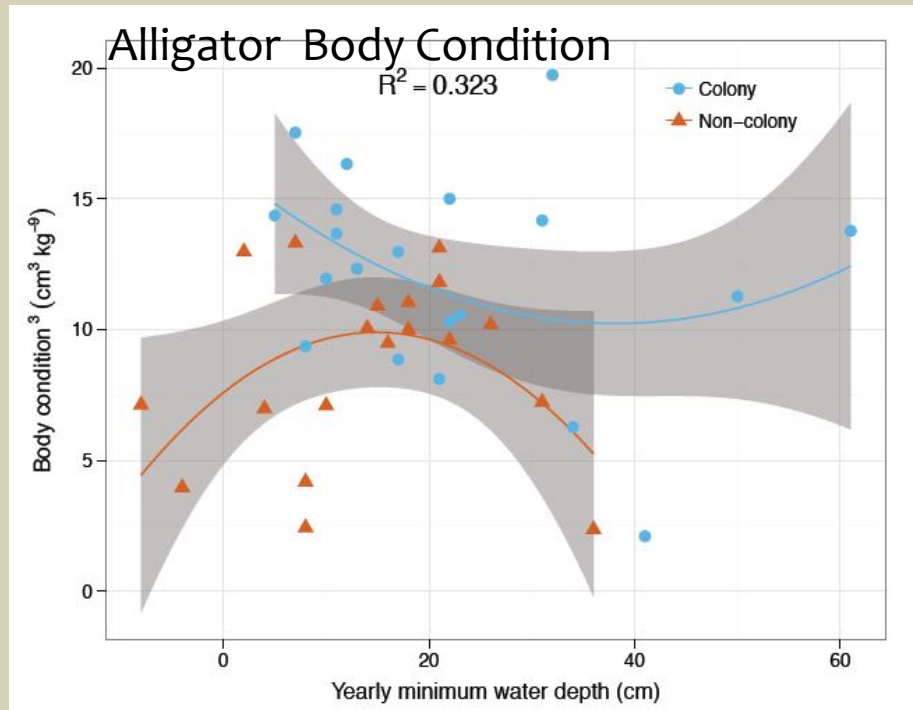
Bird feathers in raccoon scat







Alligator-bird
nesting colony relationships



Alligators “protect” nesting birds

Food from bird nests expands alligator
Hydrological niche space.

Nell, L. 2014. *Exploring benefits to American Alligators associating with long-legged wading bird nesting colonies in the Everglades.* MS. Thesis University of Florida.

Novel Predators

Burmese Pythons

Aquatic, omnivorous

99% reduction in raccoons?

Aquatic bird predator

Gator killer or gator food?

Nest predator?

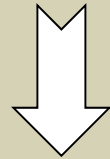
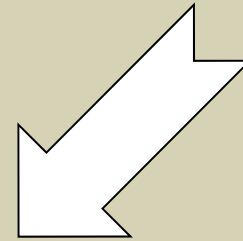
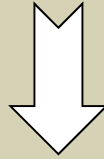
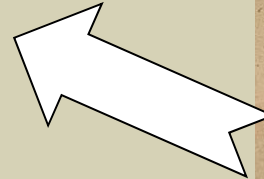


Python effects
on nest predation?



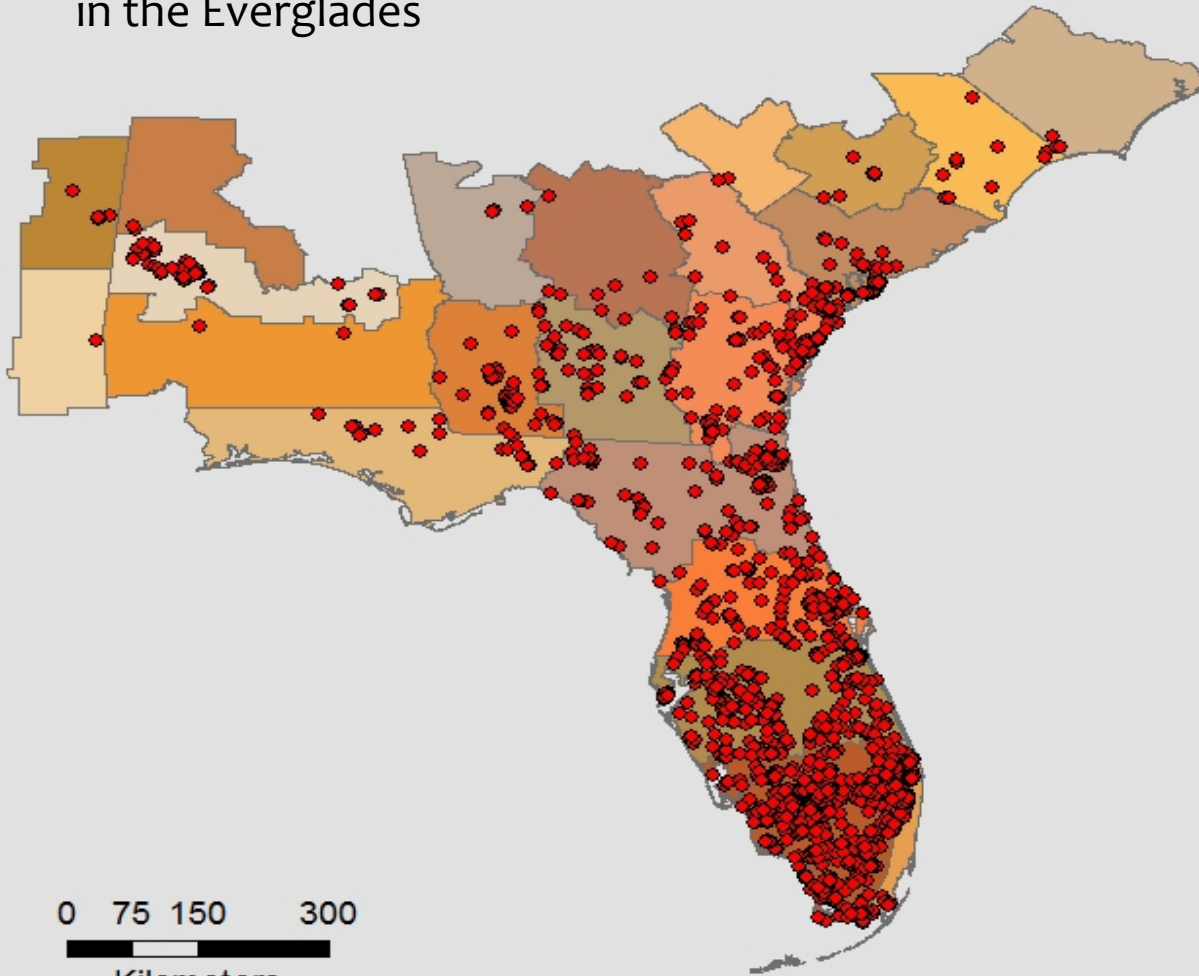
Water
Depth

+

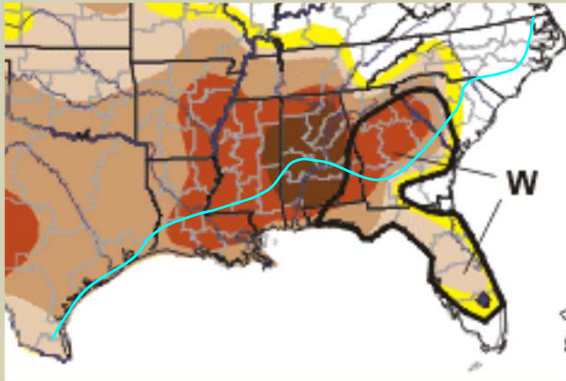




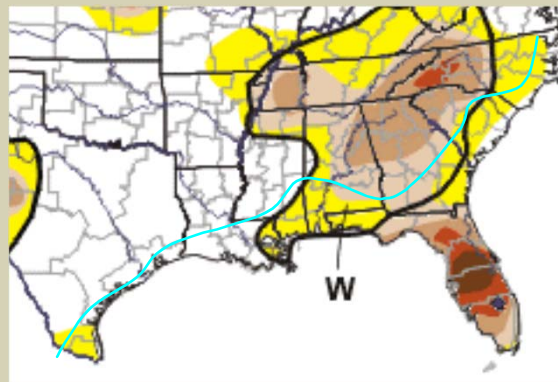
Locations of 1 adult stork tagged
in the Everglades



Asynchronous climate systems? South Florida vs. temperate Southeast US.



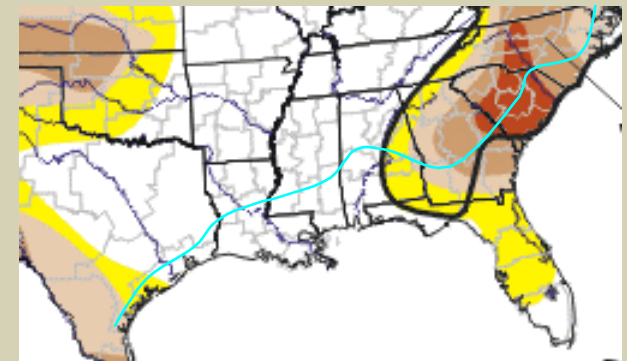
2000



2001

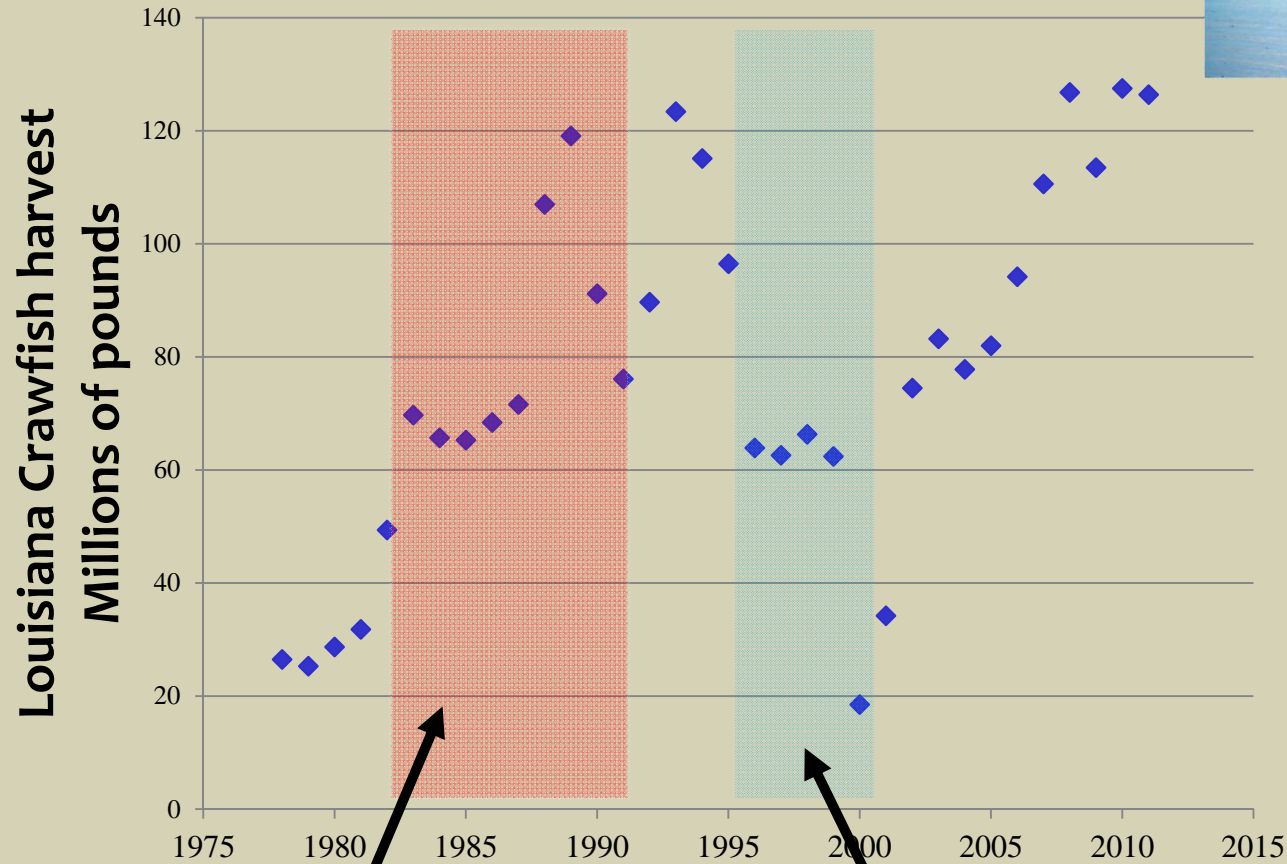


U.S. Drought
Monitor



2002

Corporate Shortstopping?



43% reduction
in Florida ibises

4 - 5X increase in
Everglades nesting

