

RECENT HYDROLOGIC CHANGE AT AUDUBON'S CORKSCREW SWAMP SANCTUARY

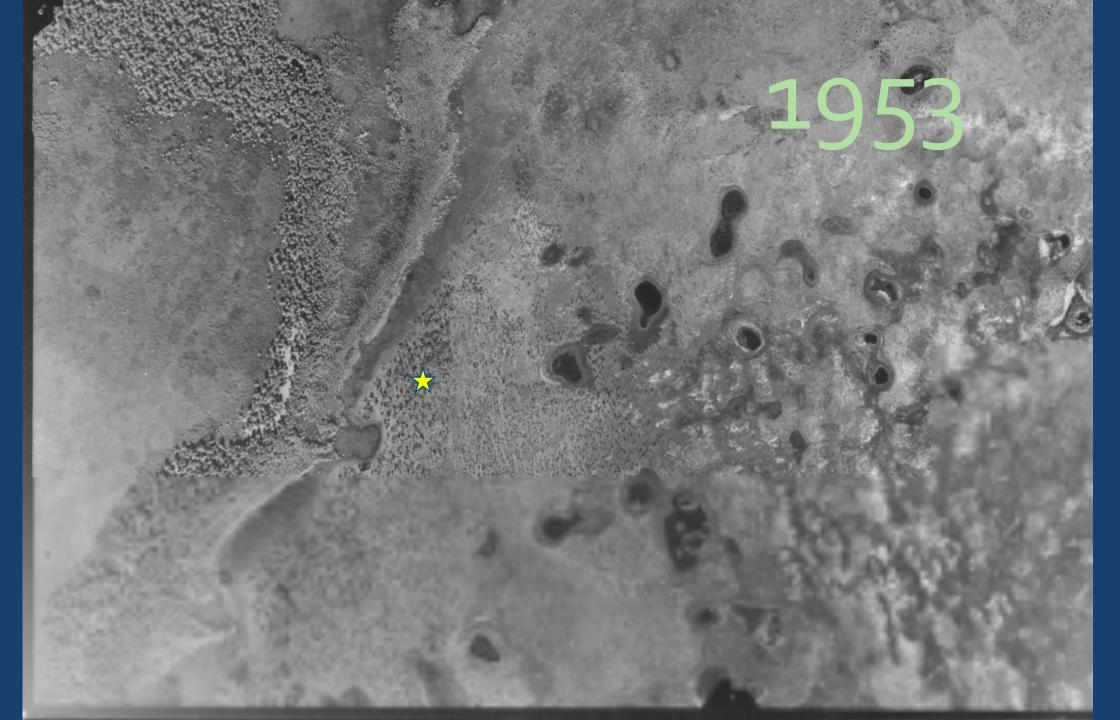


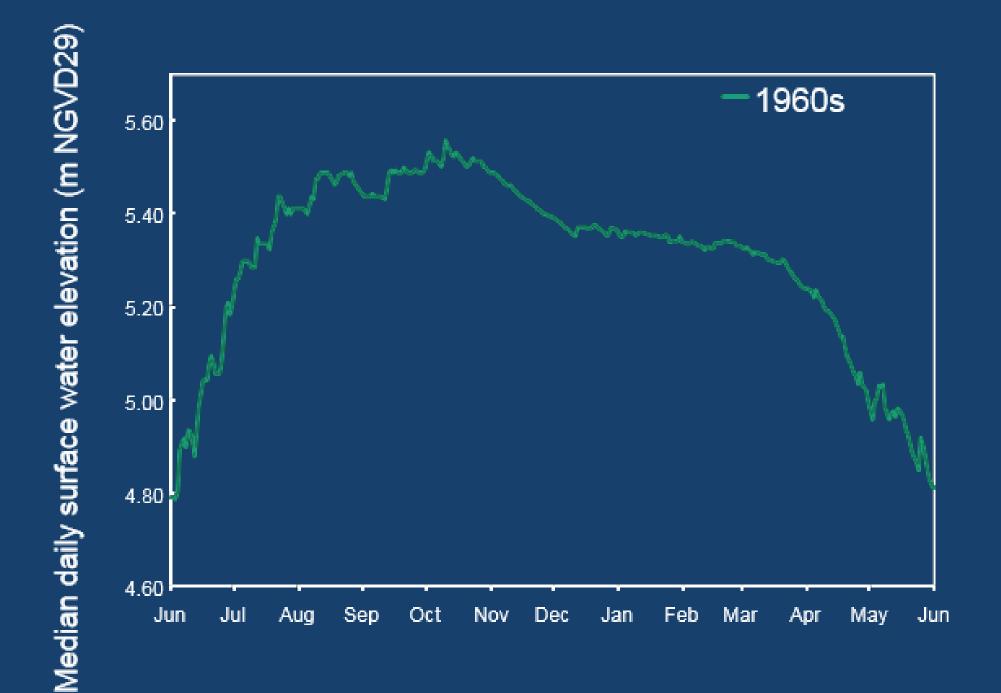
Shawn E. Clem
Corkscrew Swamp Sanctuary

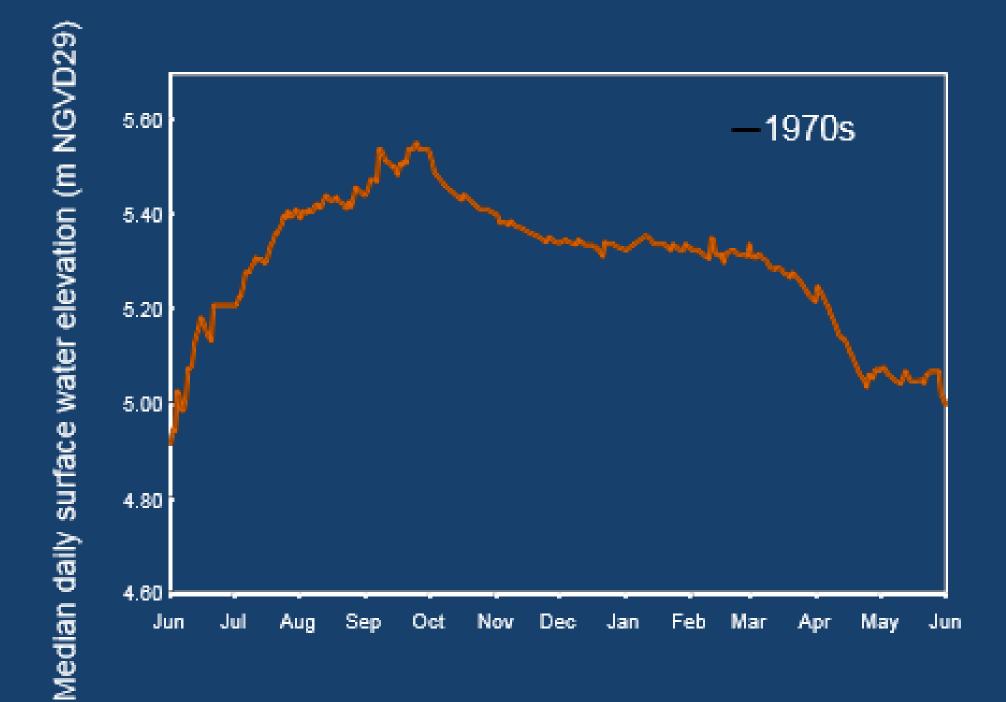
Michael Duever Natural Ecosystems



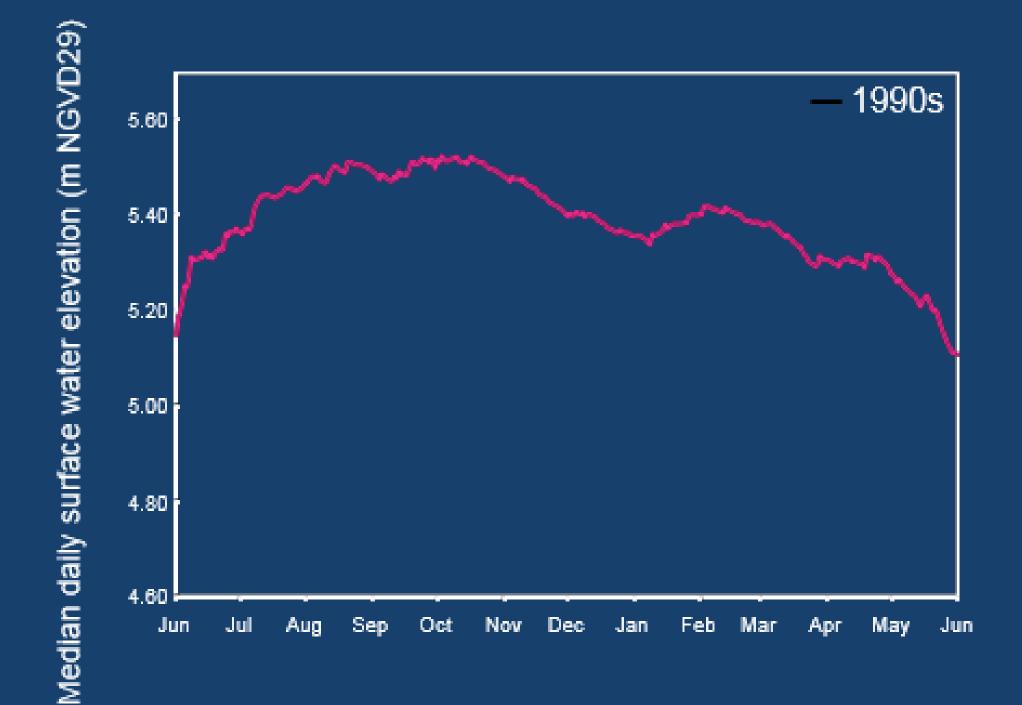
Daily water level data beginning in 1957



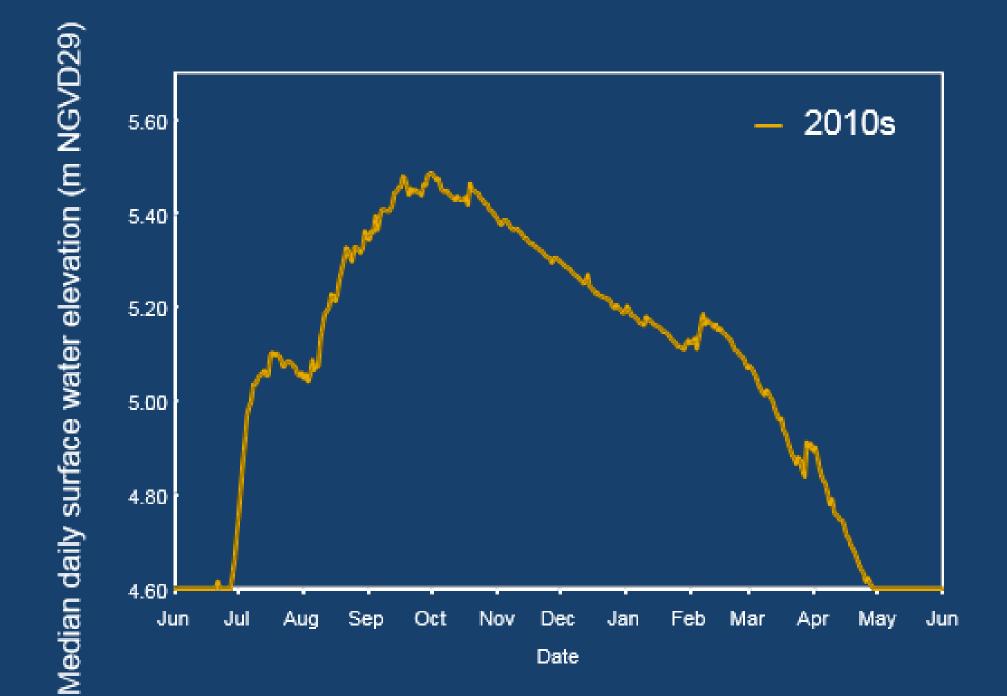








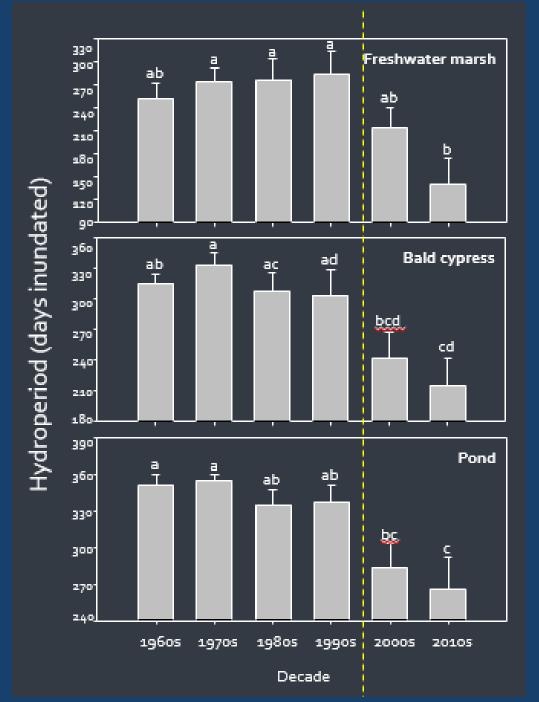










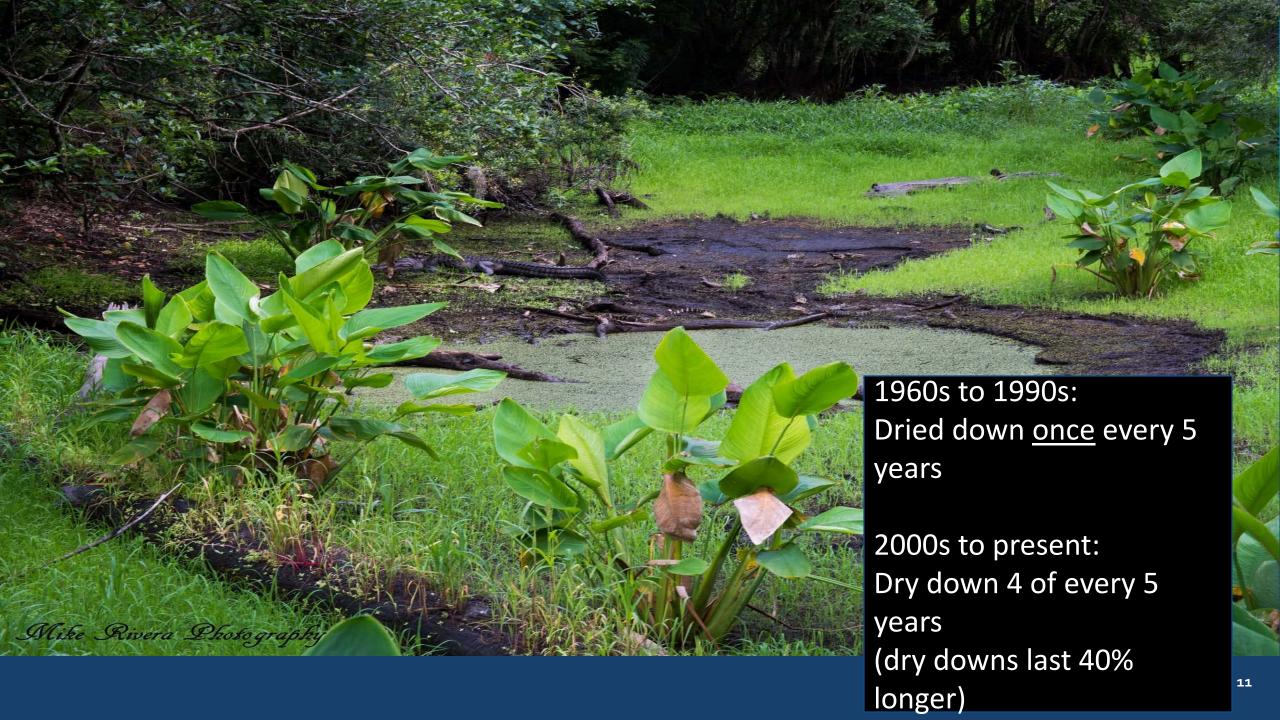


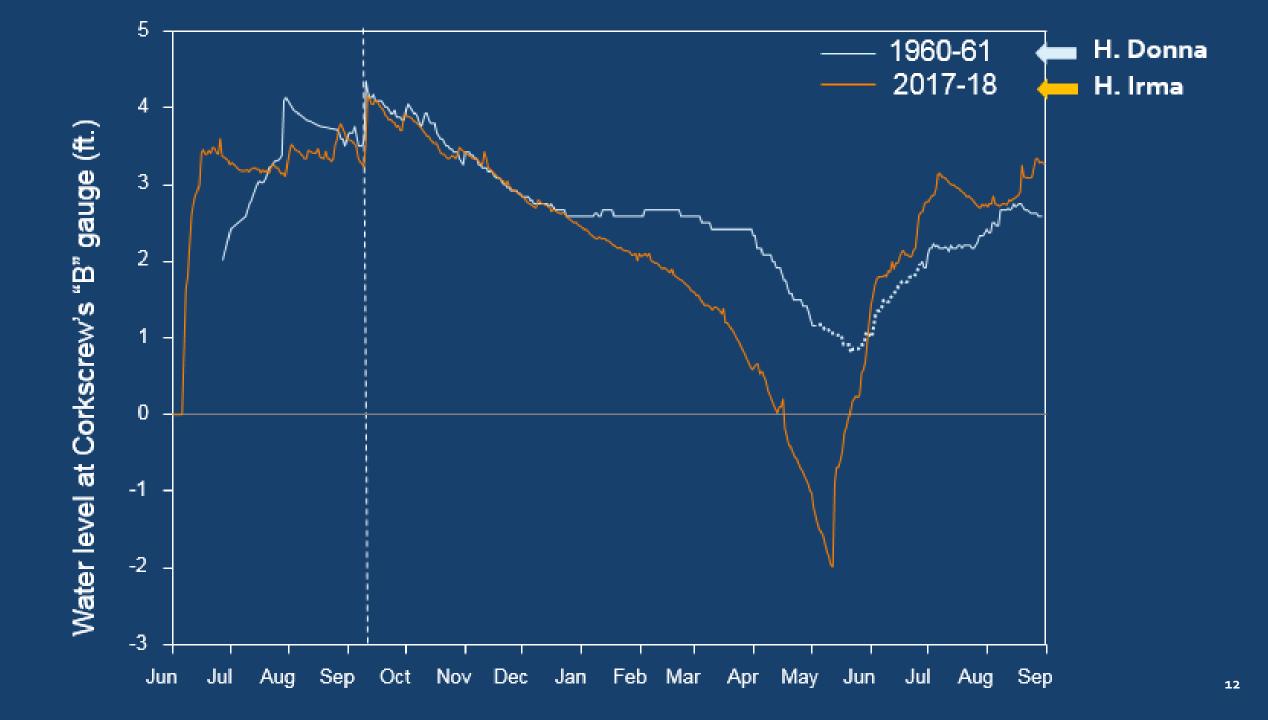
1960s to 2010s:

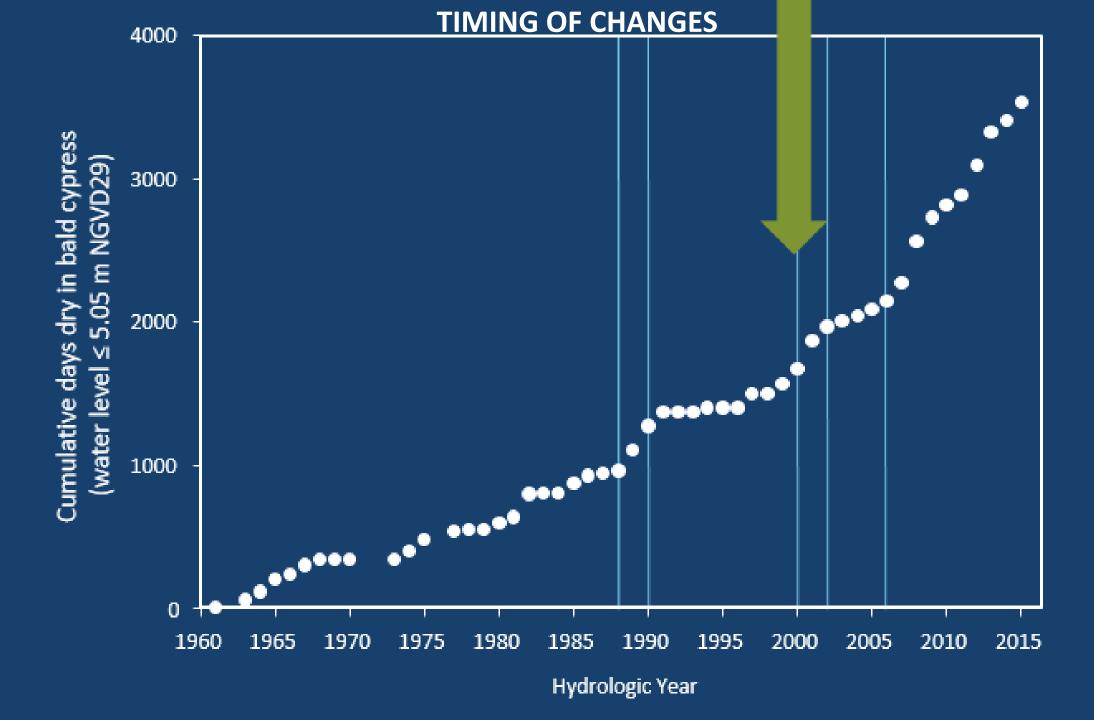






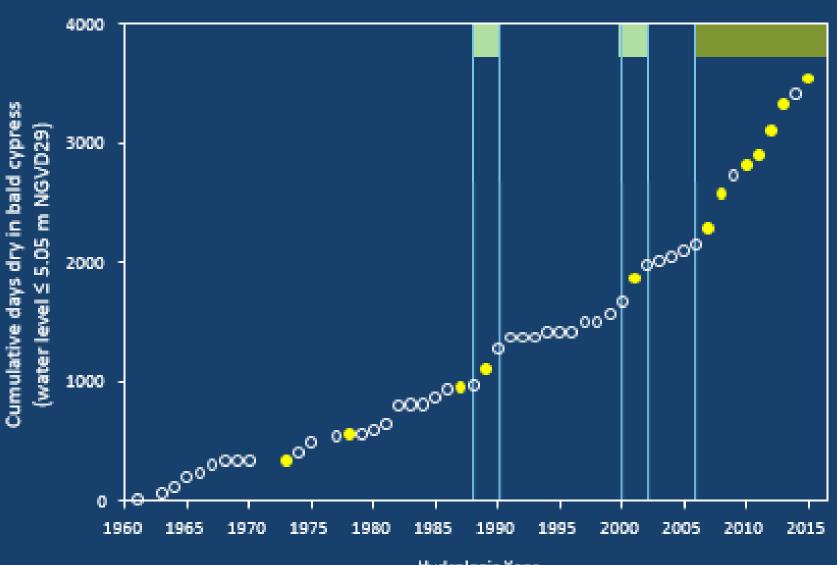






TIMING OF CHANGES







No Wood Stork nesting at Corkscrew

Hydrologic Year

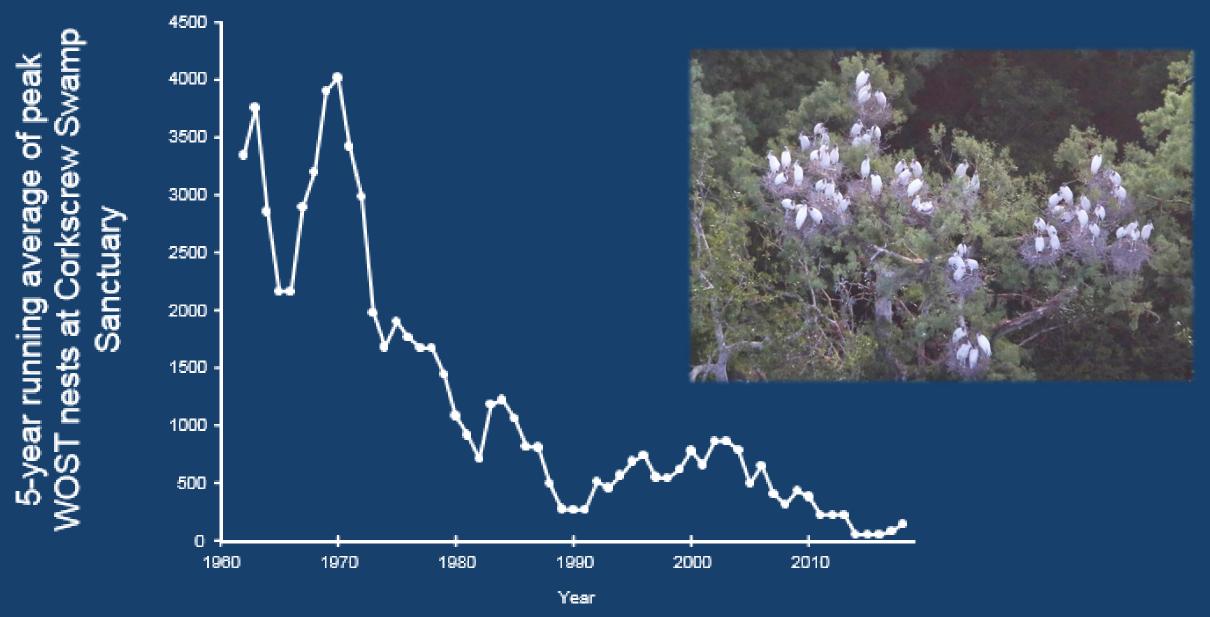


Wading birds are indicators of wetland health

Wading birds are food limited



Water grows fish, fish feed birds



Corkscrew's Wood Stork colony has declined severely—is further stressed by hydrologic changes

Wood Storks are our canary in the coal mine

Hydrologic change also has implications for

- Other aquatic-dependent wildlife
- Plant communities
- Dry season severe fire risk
- Winter temperature buffering & microclimate



Technical report:

http://corkscrew.audubon.org/conservation/corkscrew-water-loss