## Lake Okeechobee Ecology: Looking Back and Looking Ahead, from LORS08 to LOSOM

Moderator – Jennifer Chastant<sup>1</sup>

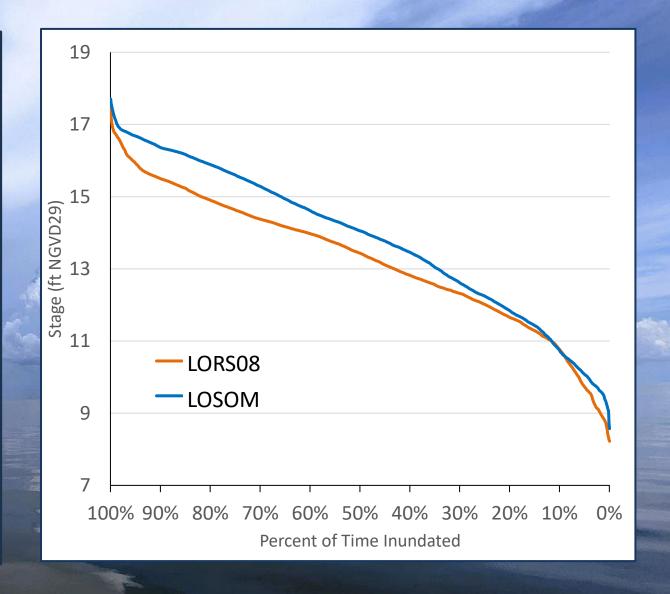
Zach Welch<sup>1</sup>
Paul Jones<sup>1</sup>
Matthew Stevens<sup>2</sup>
Michael Baranski<sup>1</sup>
Alyssa Jordan<sup>2</sup>



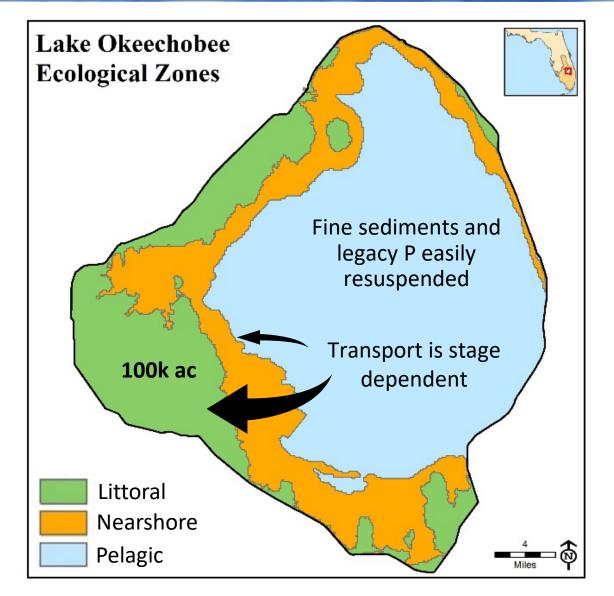


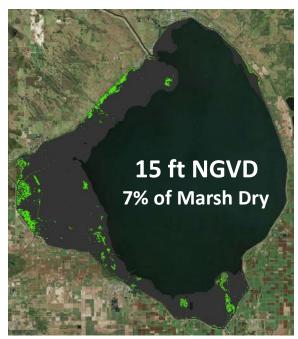
## Why the angst?

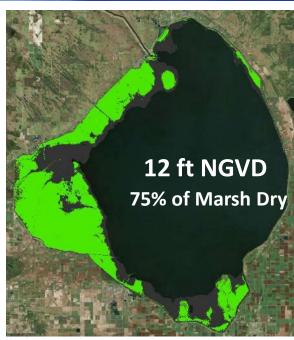
- LOSOM –higher modeled lake stages than LORS08
- Already have high-water related impacts on the lake
  - SAV, littoral extent and composition, fishery, wading birds
  - Lingering WQ issues and HABs

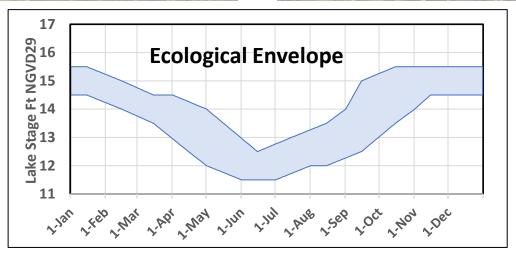


## How Lake Stages Affect Littoral Health





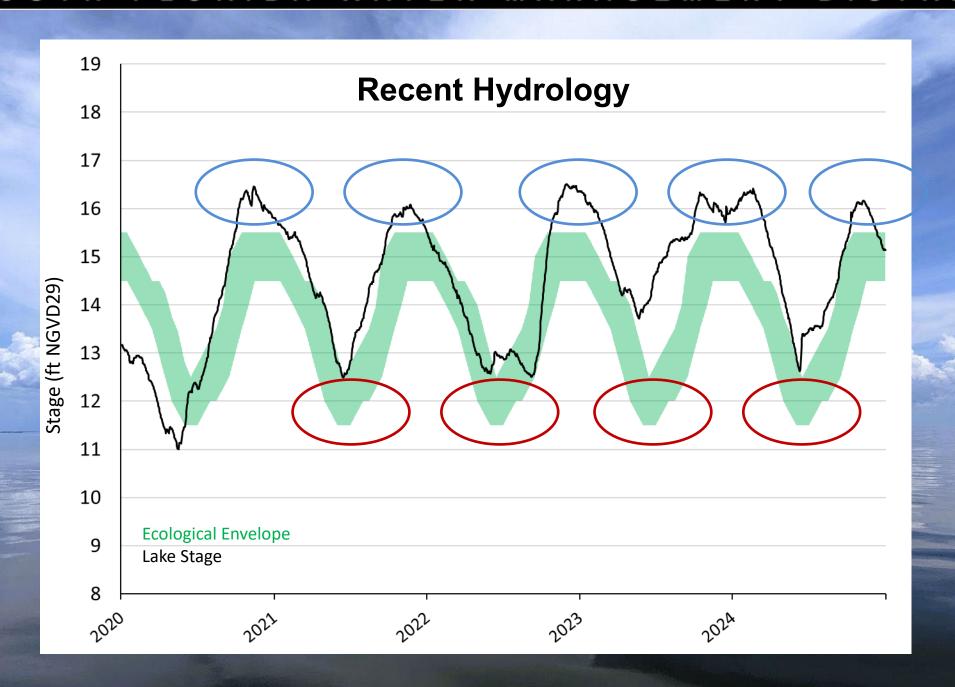


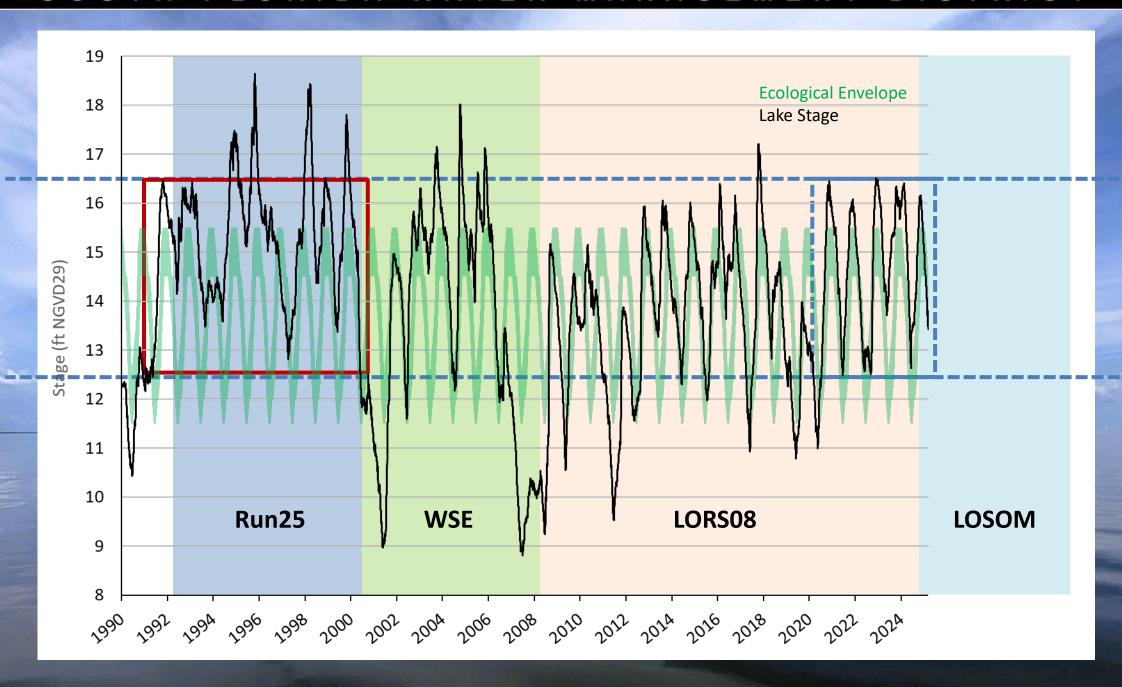


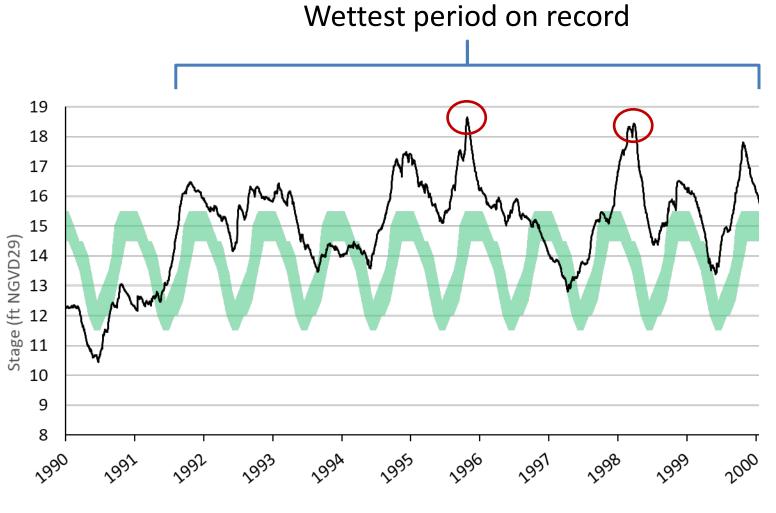
# On the cusp of LOSOM – Considering environmental events and ecological changes under LORS08

Zach Welch
Section Administrator
Lake & River Ecosystems

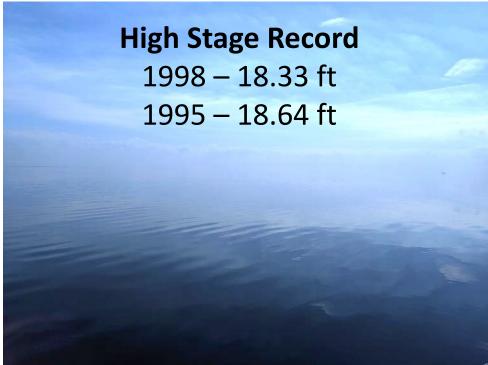


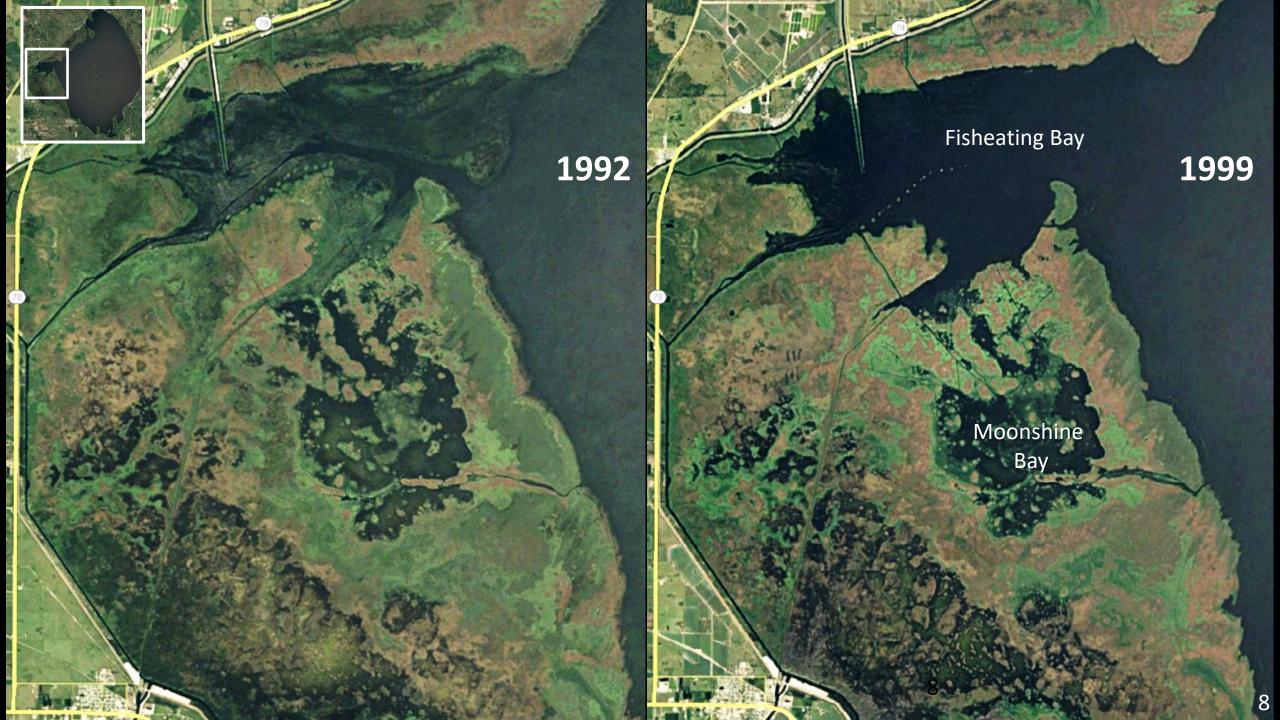




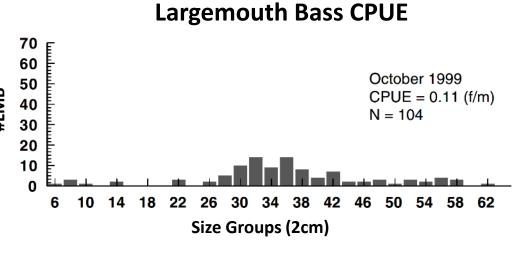


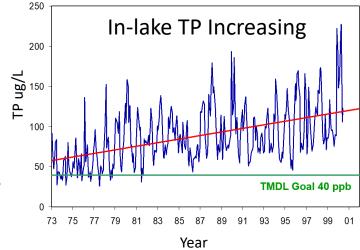
## 1990s



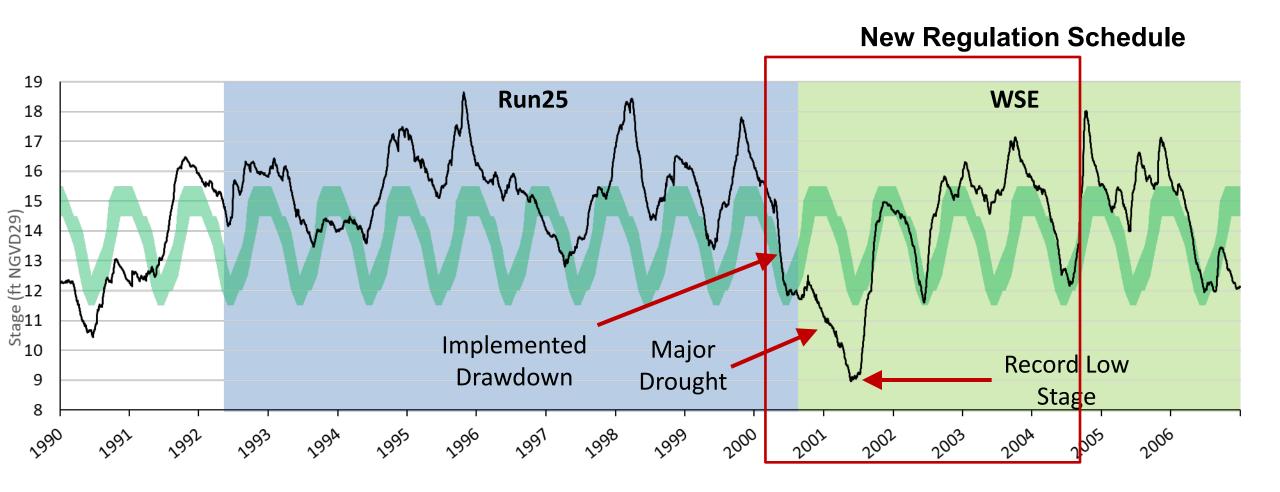












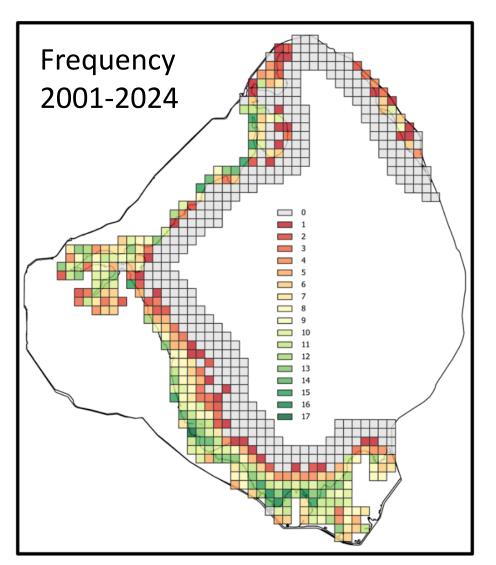




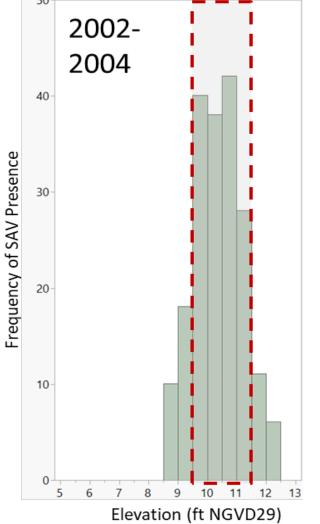




## Long-term SAV Monitoring

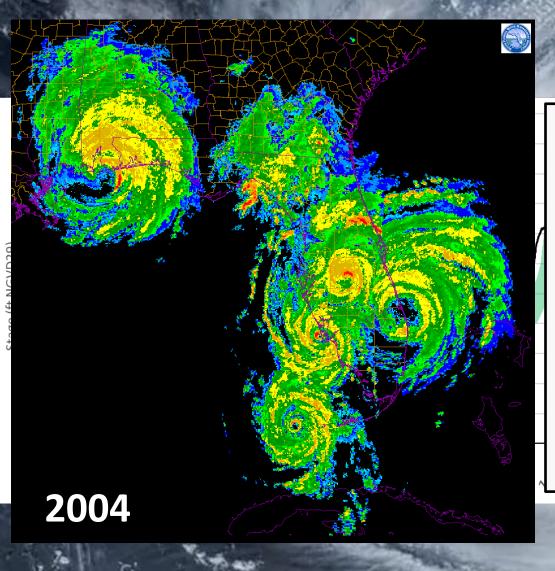


Vascular Distribution

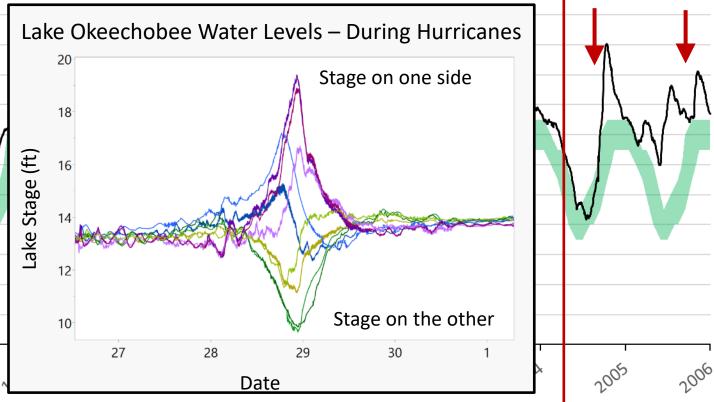








## 2004-2006

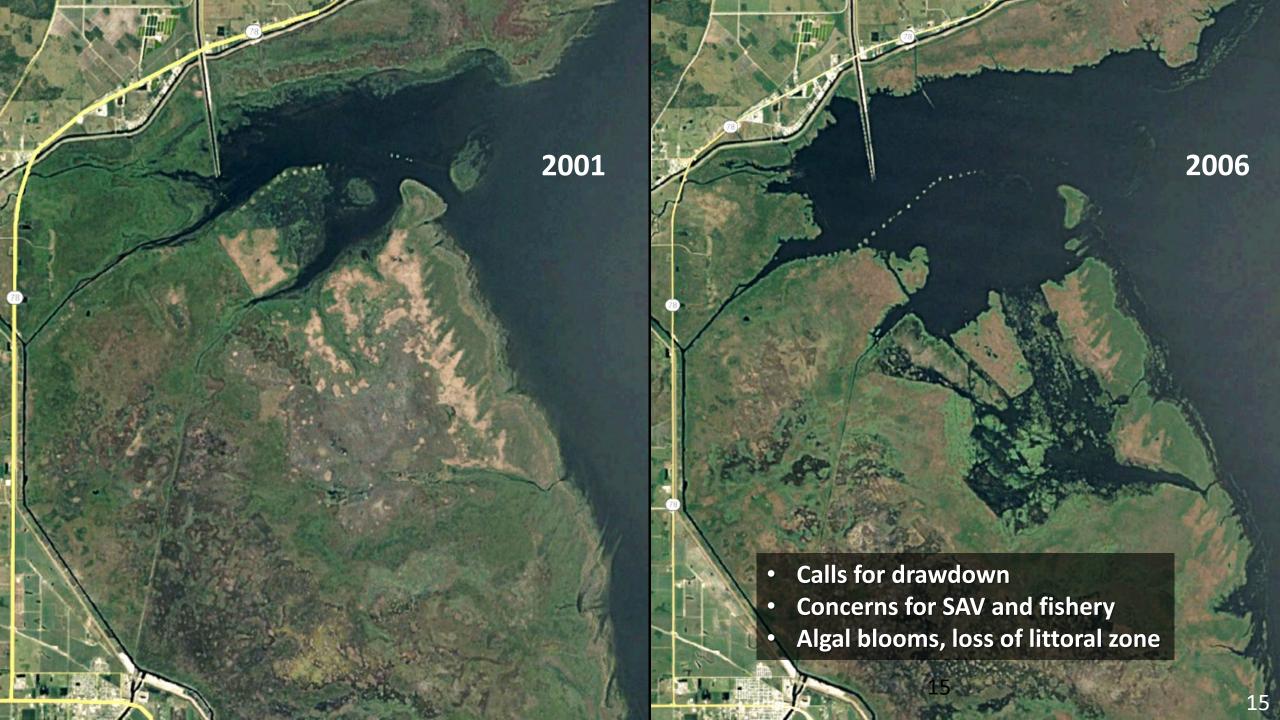


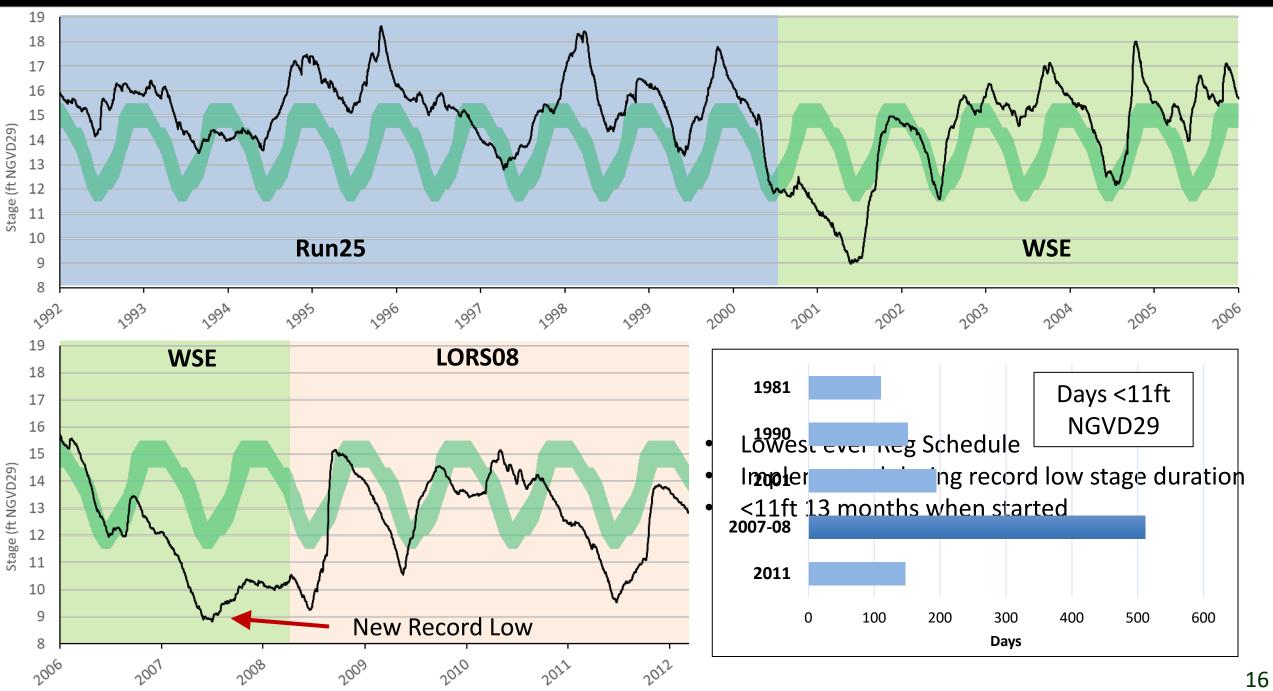












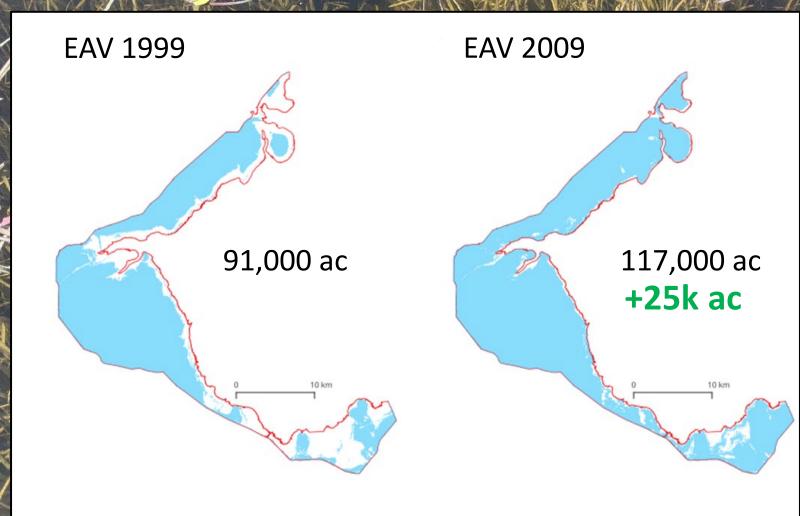


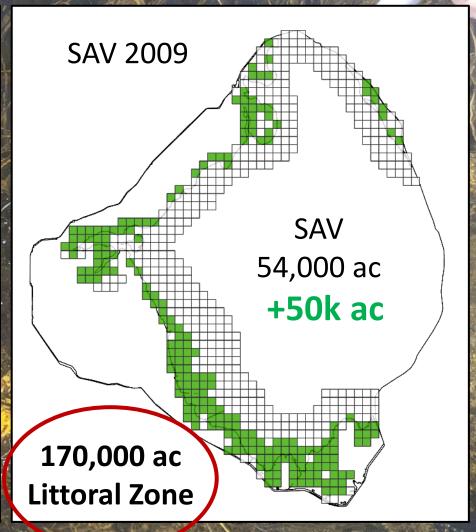


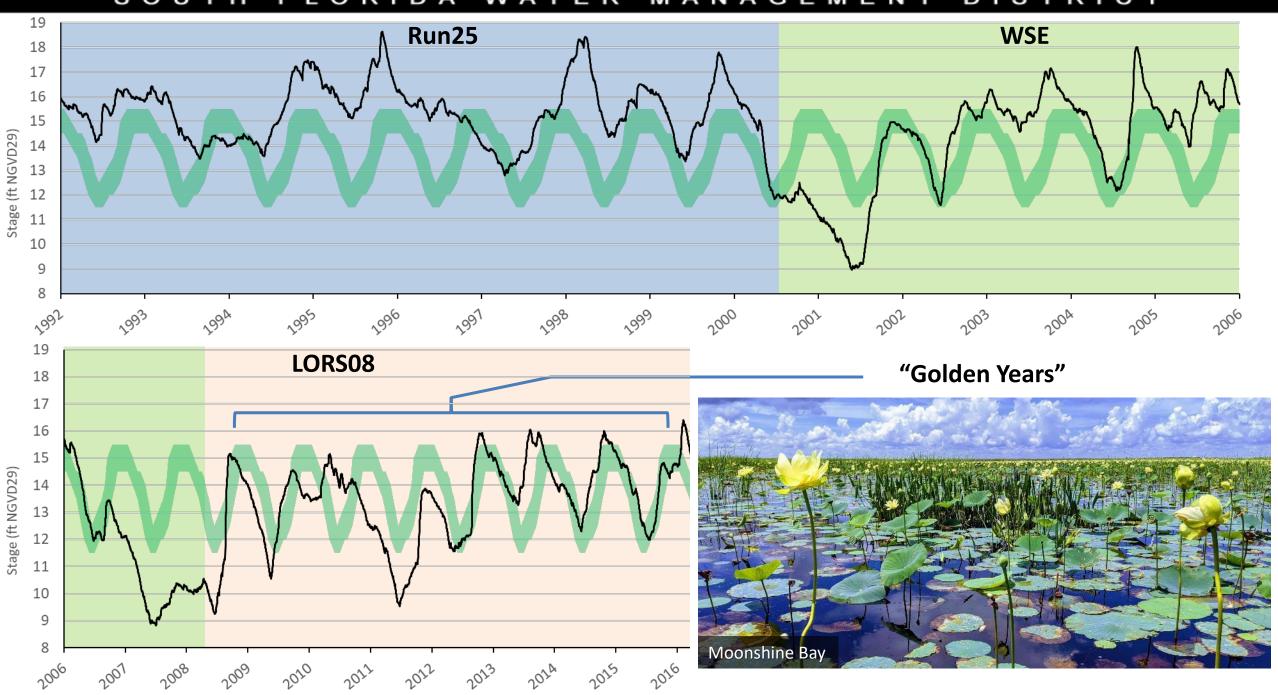




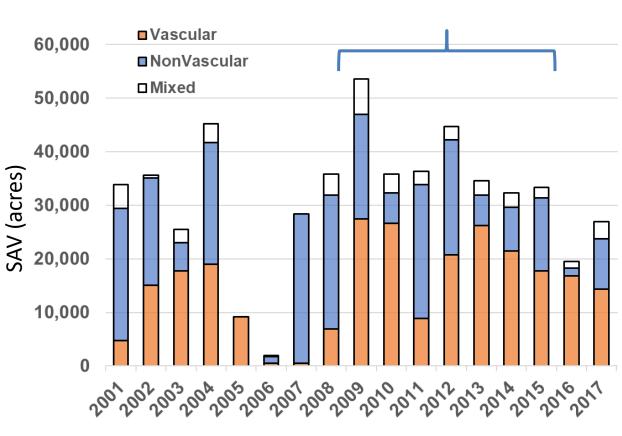
## Marsh and SAV Recovery

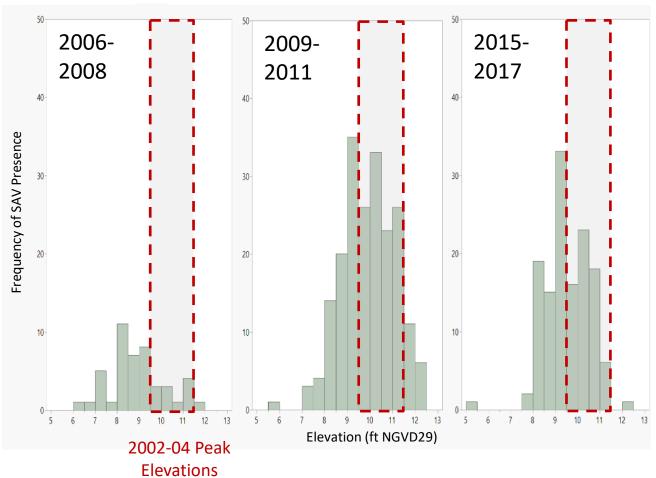


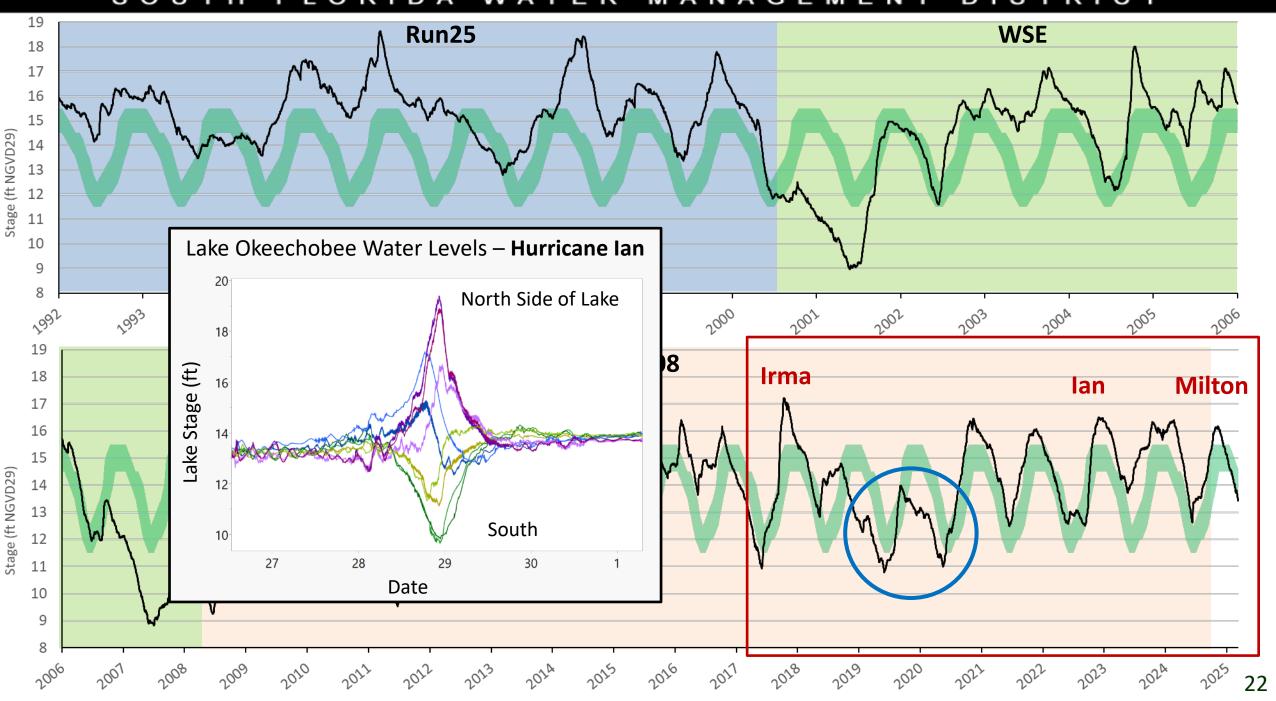




## SAV Distribution









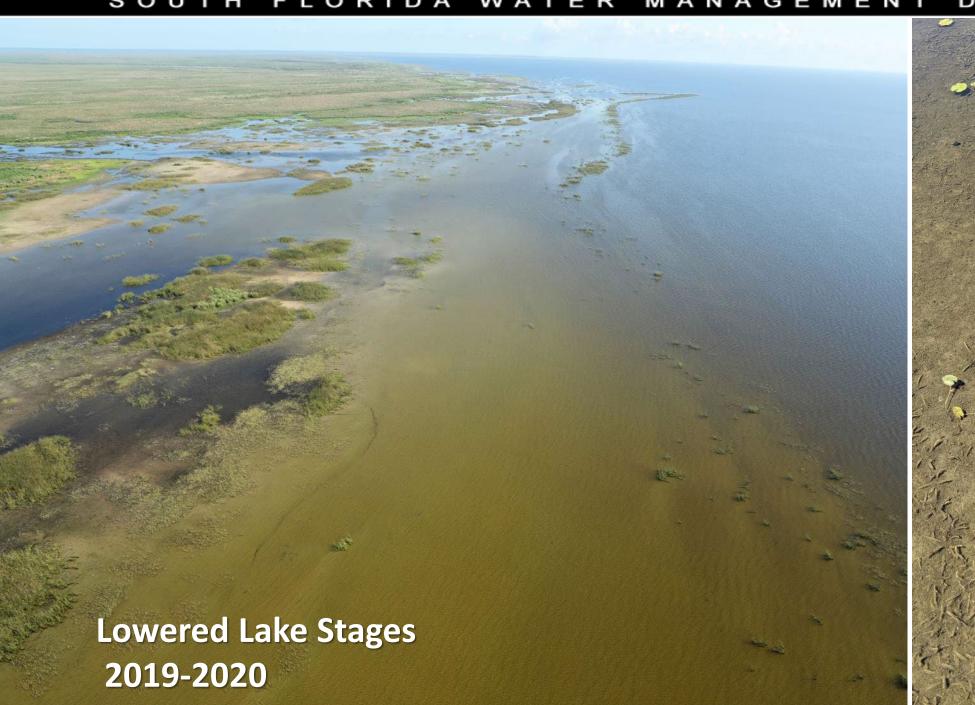




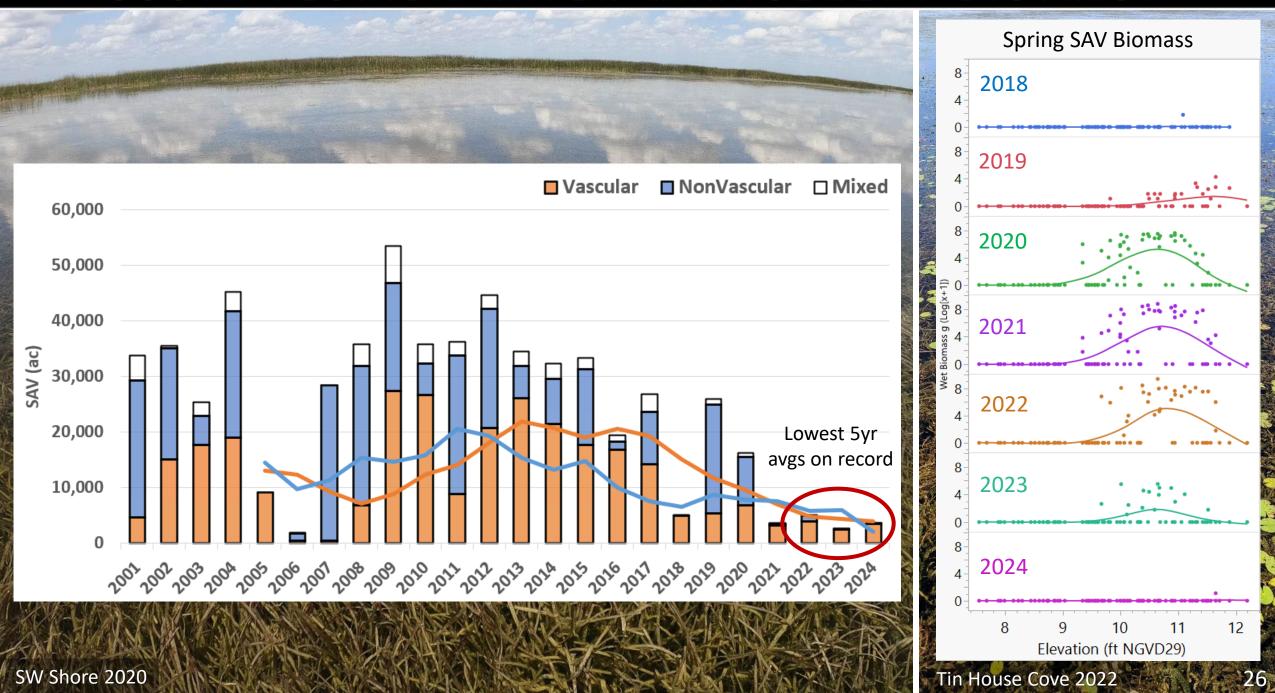


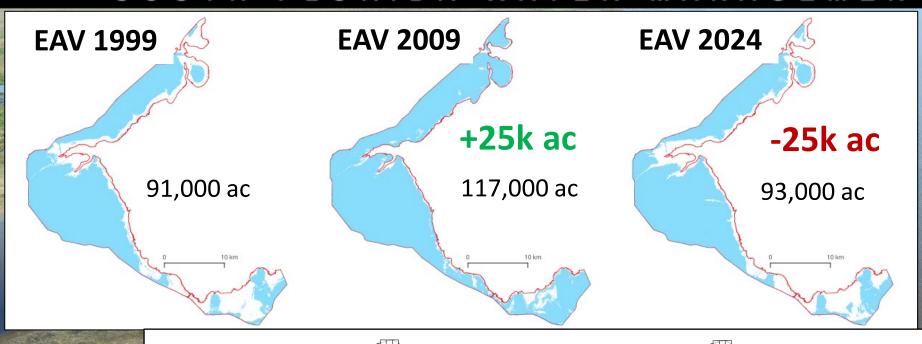




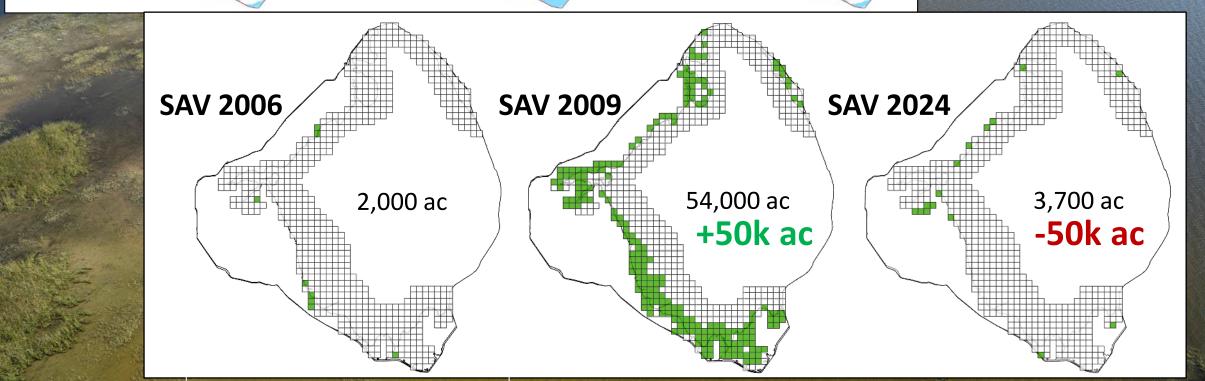


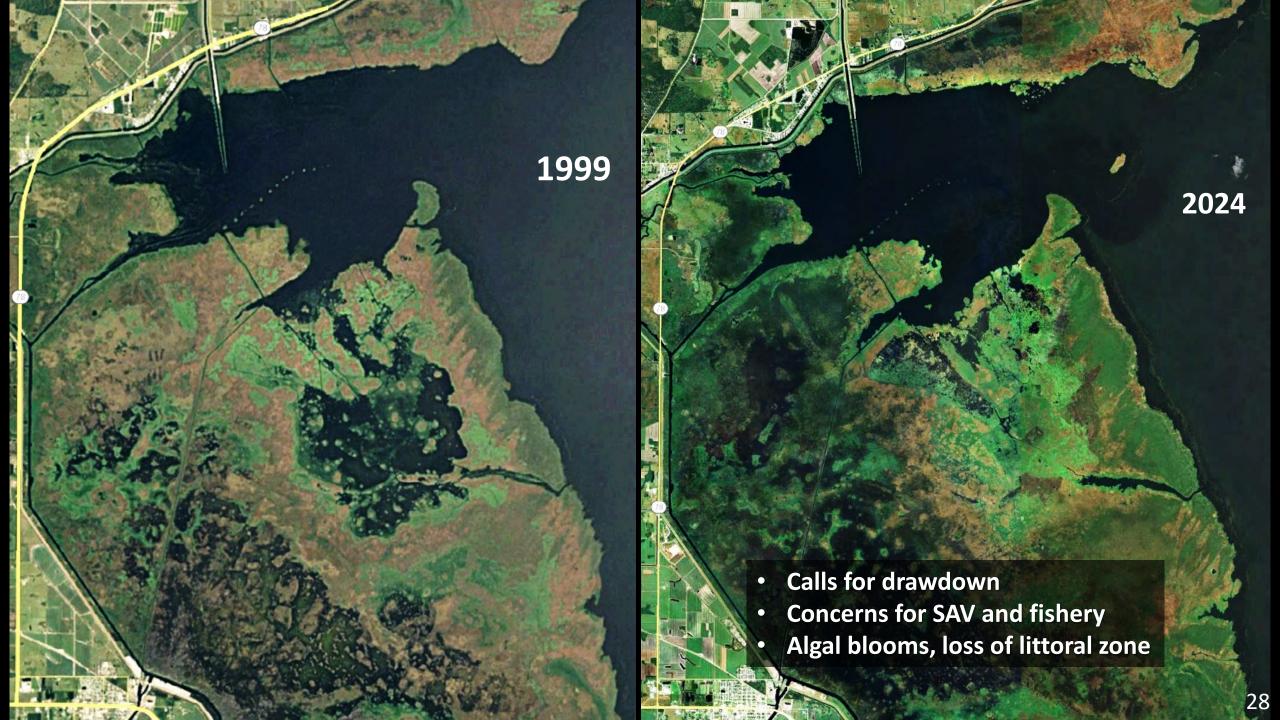






Historical Comparisons





#### **Summary**

- Conditions not good, but not unprecedented
- Considerable storm/high-water impacts
- Prior recoveries associated with extreme droughts









