

2024 Lower St. Johns River Basin Management Action Plan (BMAP) Update

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St. Johns River
Water Management District

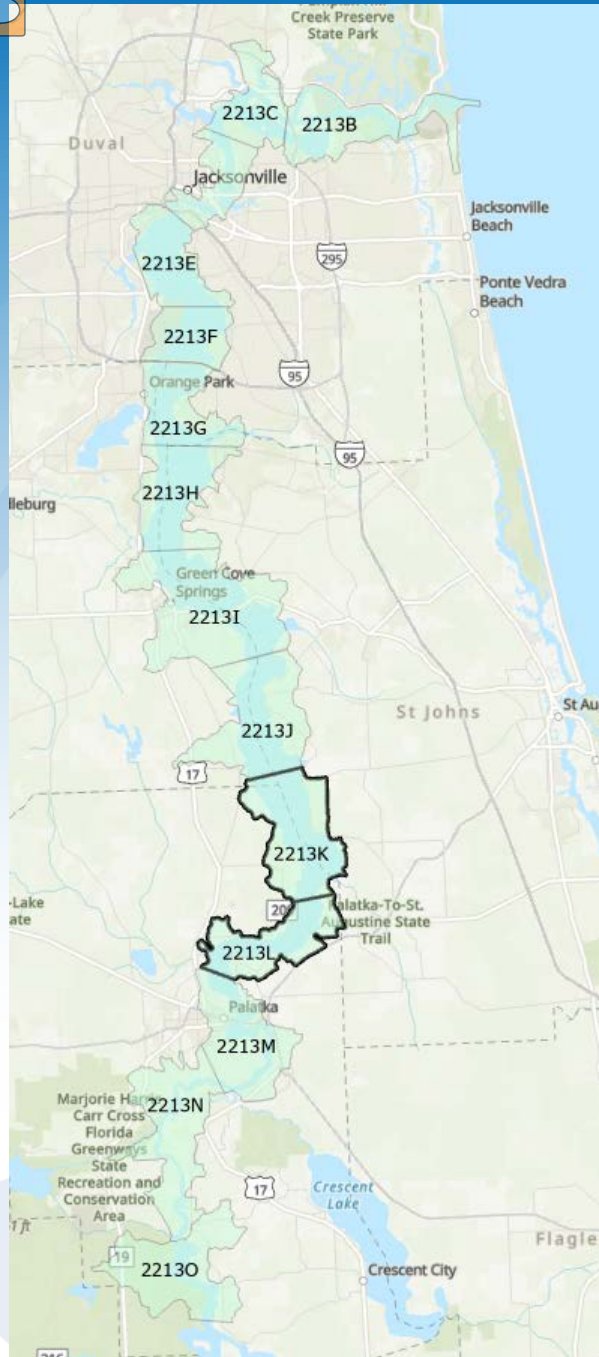


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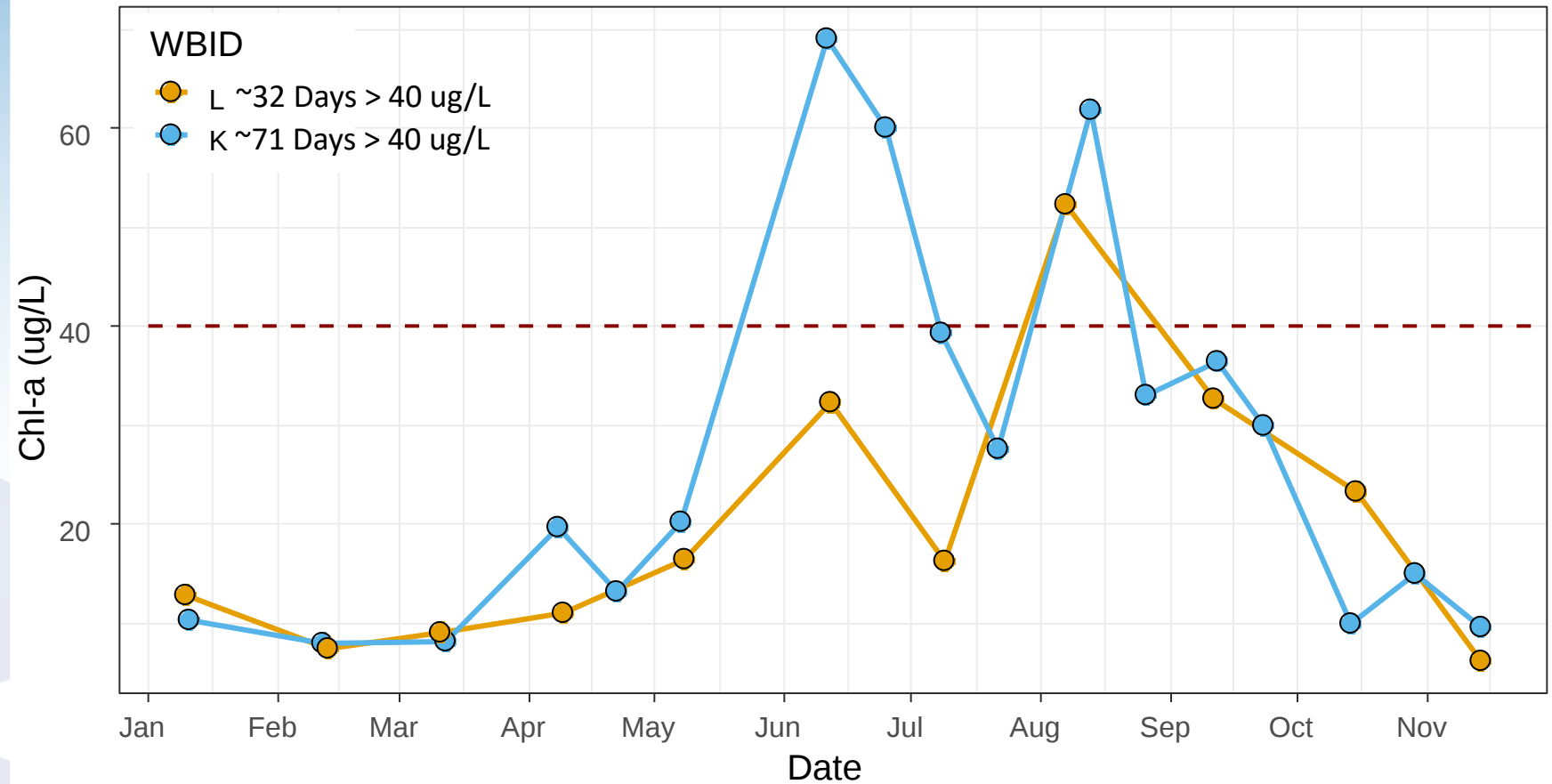
Lower St. Johns River Freshwater Reach Target

Worst case WBIDS - K and L

Goal = 40 $\mu\text{g/L}$ for 40 days



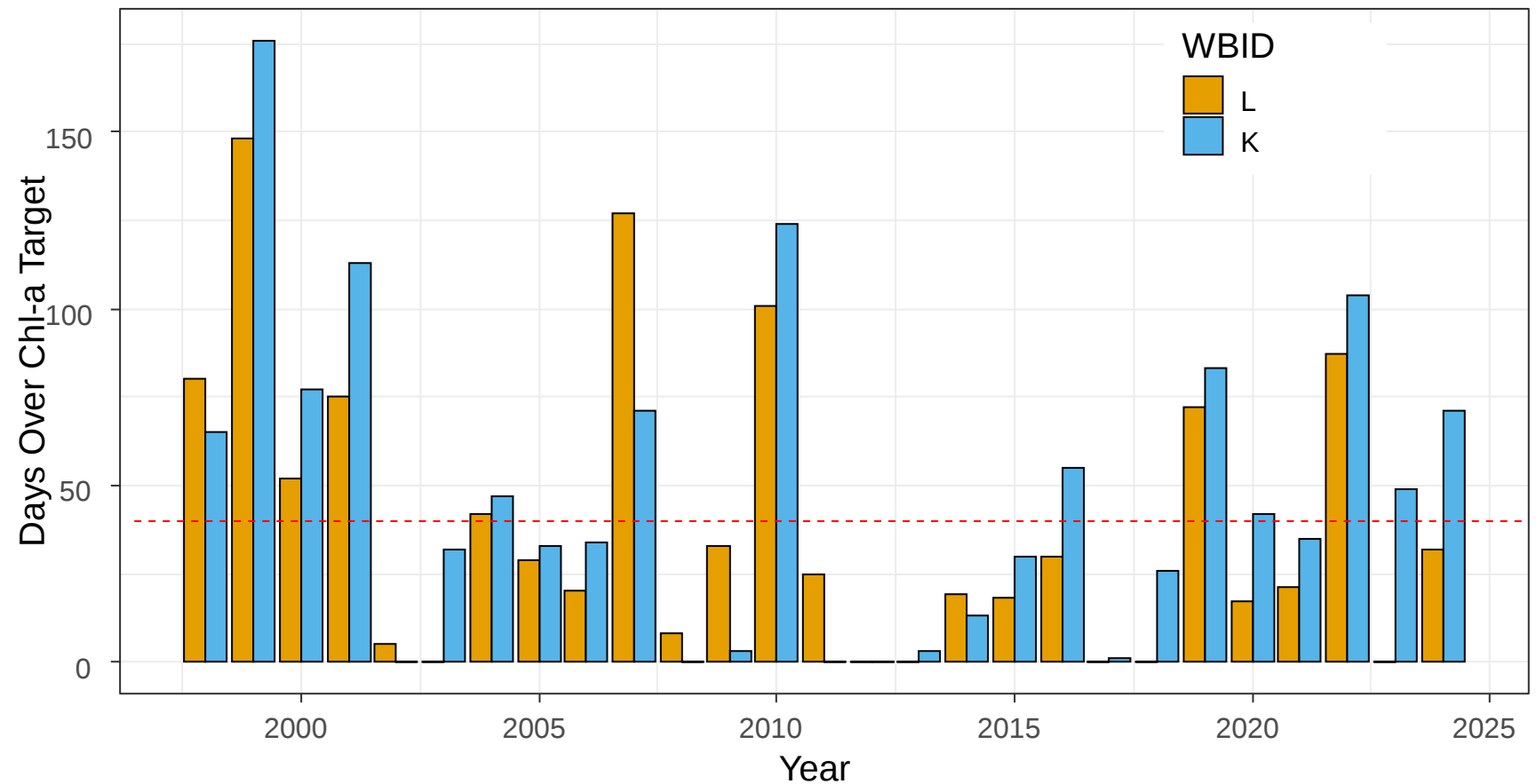
2024 Chlorophyll Concentrations at K and L WBIDS



Lower St. Johns River Freshwater Reach Target

- Long-term decline in estimated bloom duration.
- 2024 Bloom duration longer than 2023 in both WBIDS
- Likely exceeded TMDL target

Estimated Algal Bloom Duration in K and L WBIDS

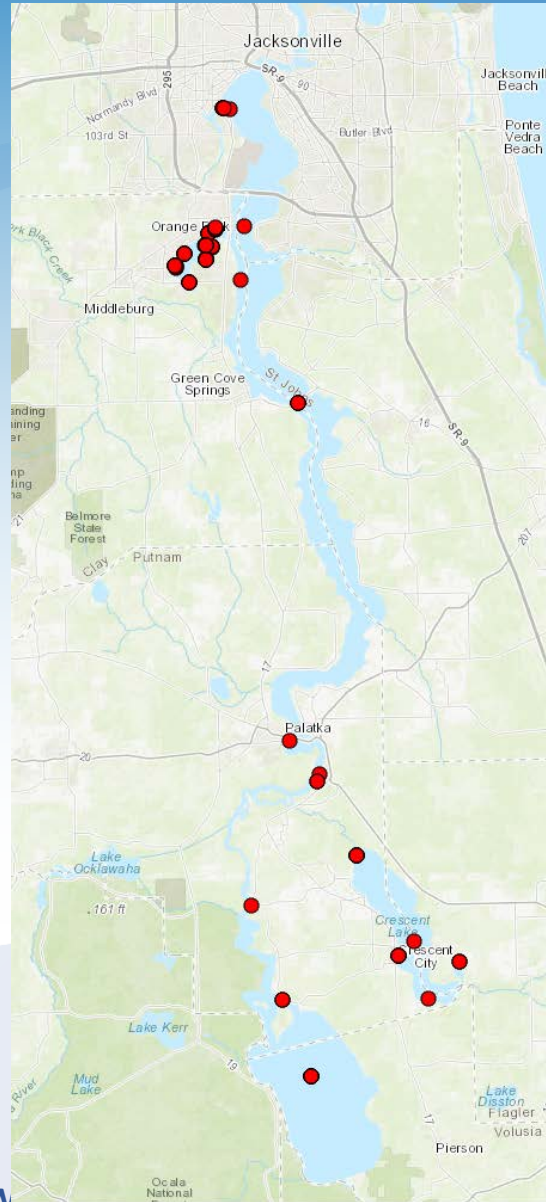


Harmful Algal Bloom Monitoring: Routine Sites

- More cyanobacteria dominant in 2024 than 2023
- More producing toxins in 2024 than 2023

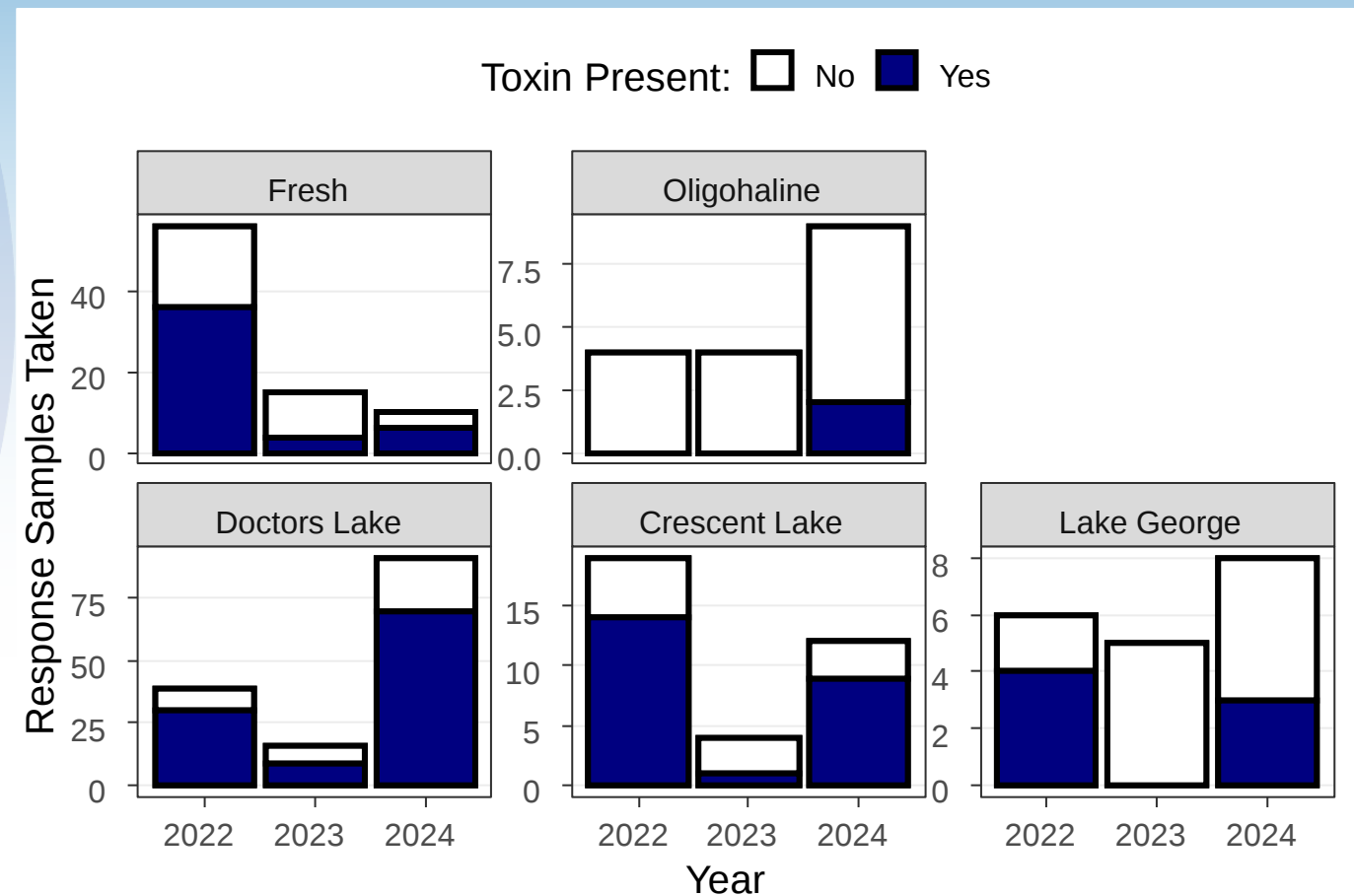


2024 Response Sample Locations



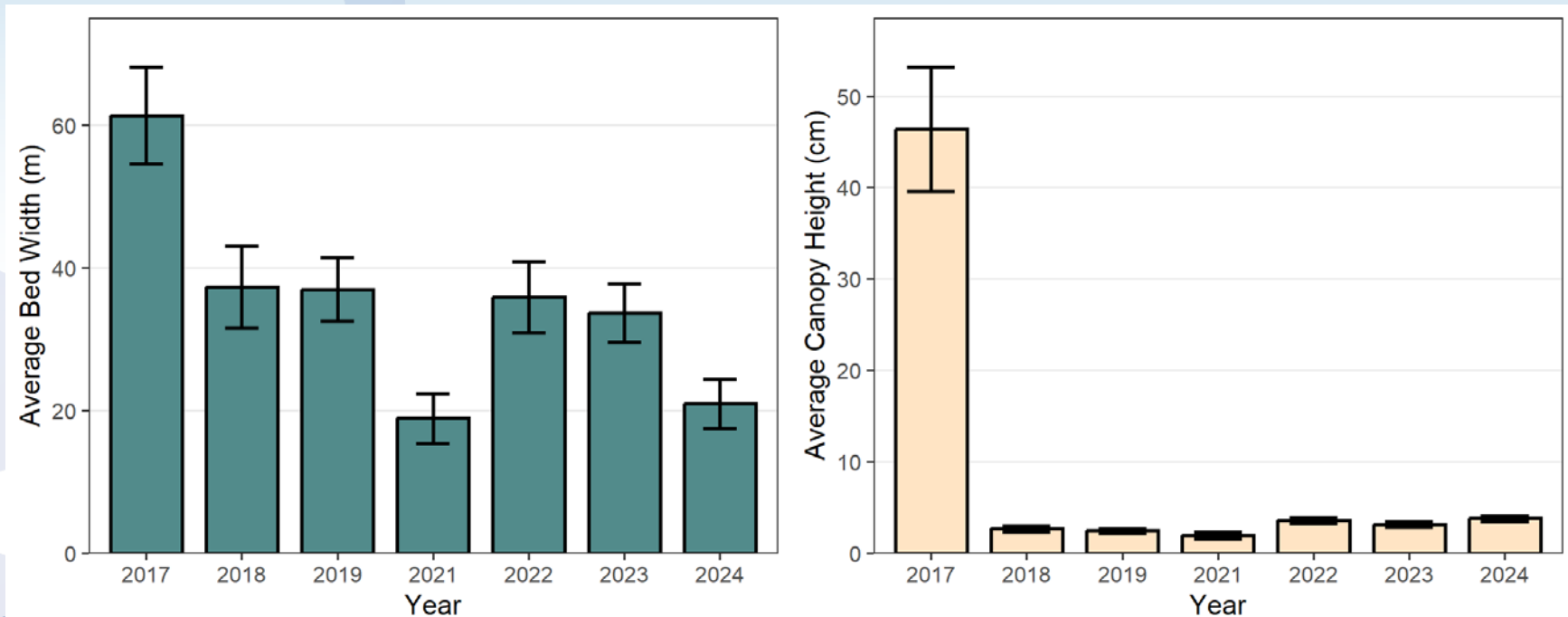
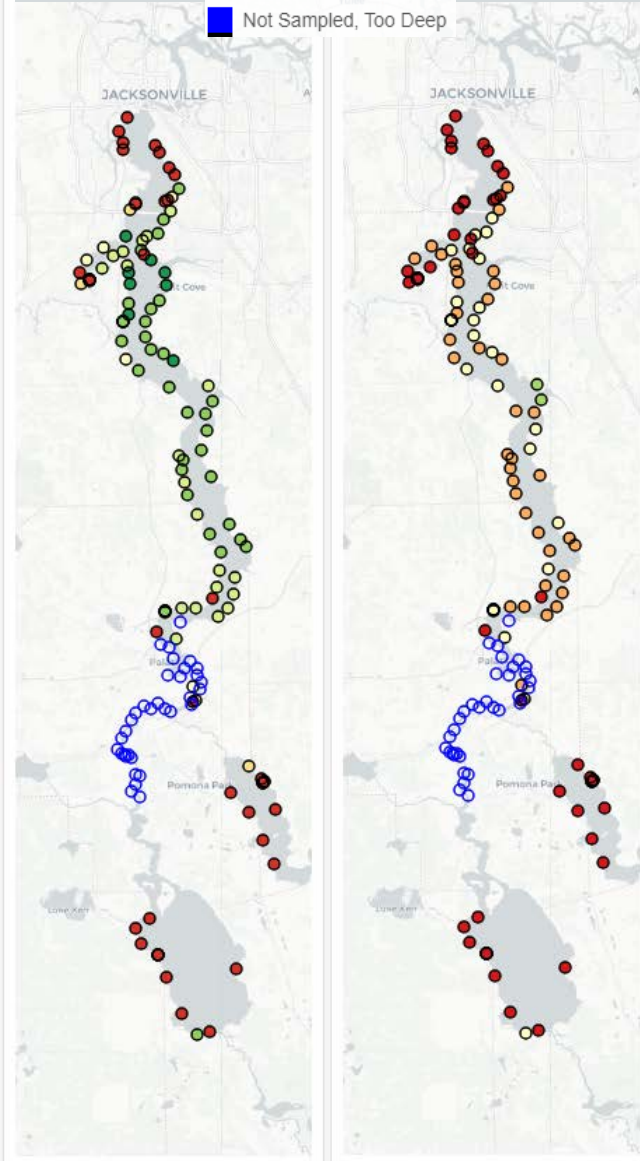
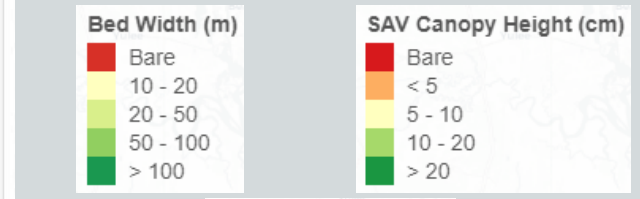
Harmful Algal Bloom Monitoring: Response Sites

- More response samples taken in the oligohaline section and lakes in 2024 than 2023



Submerged Aquatic Vegetation

- Canopy height, percent cover still low after Irma
- Bed width, percent occurrence lower than 2023
- High water levels potentially the cause
- 2024 SAV dashboard online



Summary

- Freshwater chlorophyll-a goal potentially exceeded
- Harmful algal blooms persist
 - Samples indicate more severe bloom season than 2023
- Submerged aquatic vegetation persists
 - Decline in bed width from 2023
 - Canopy heights remain short compared to pre-Irma



Questions?



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