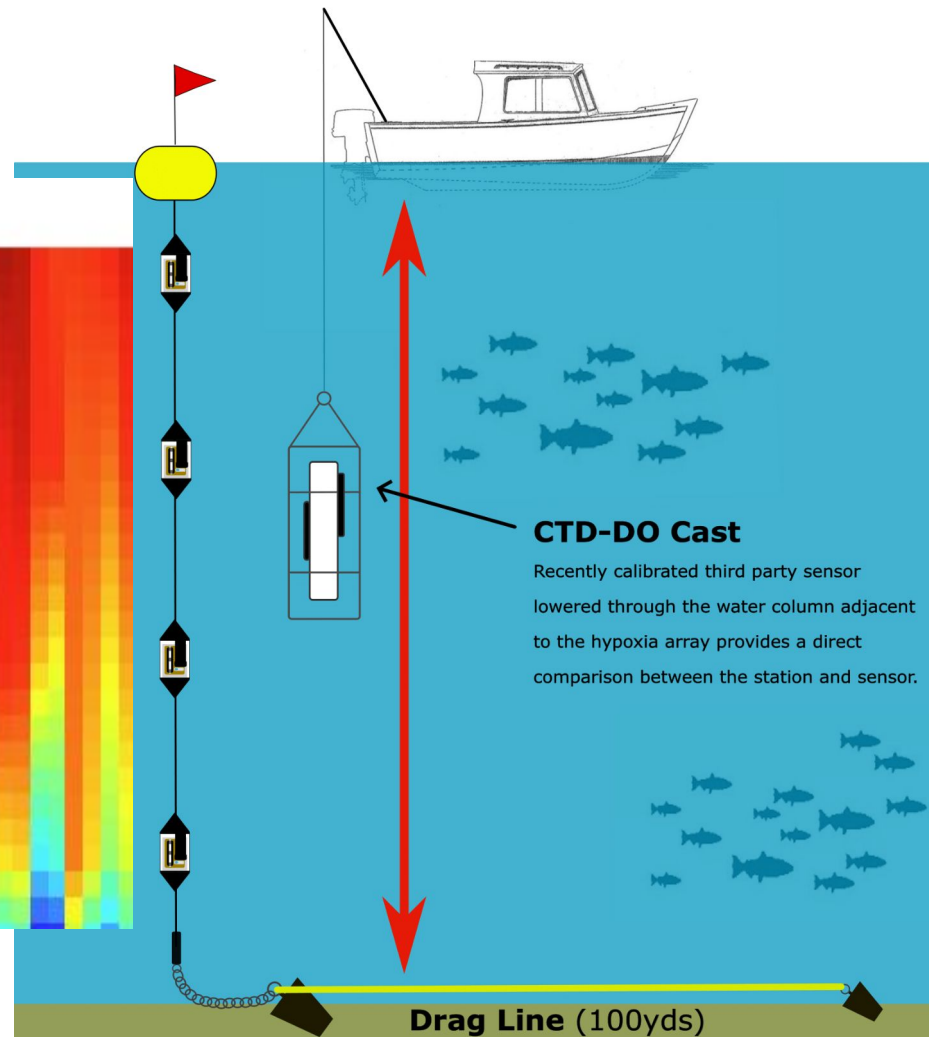
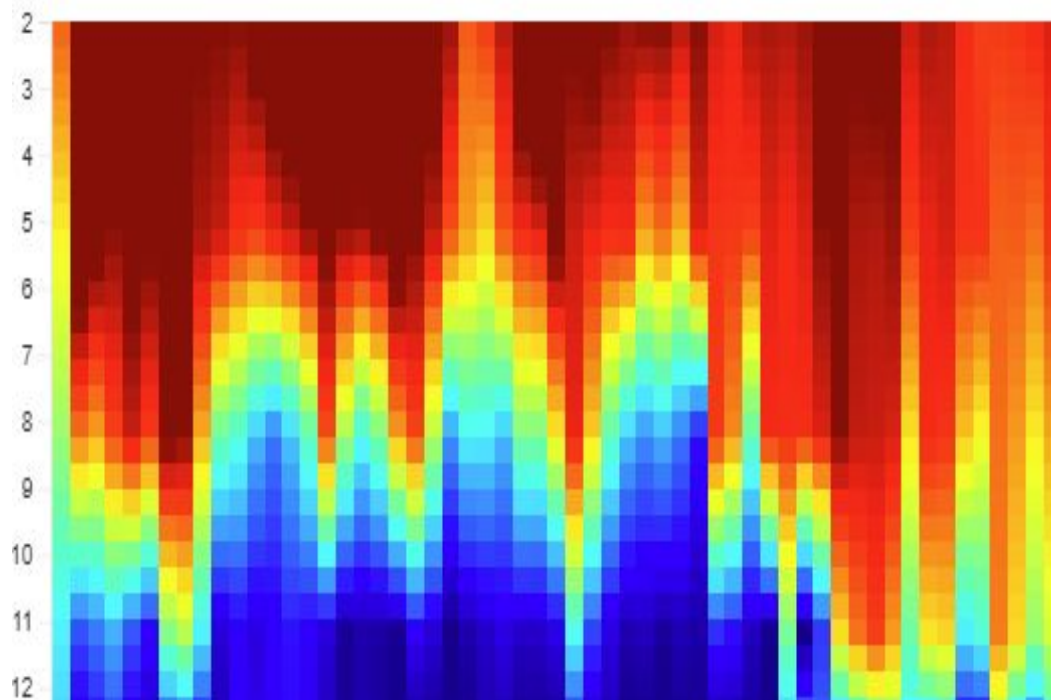




# Examining the Connections between Water Quality and Living Resources in Shallow Waters

CBP  
Hypoxia Collaborative  
Meeting

March 18, 2025

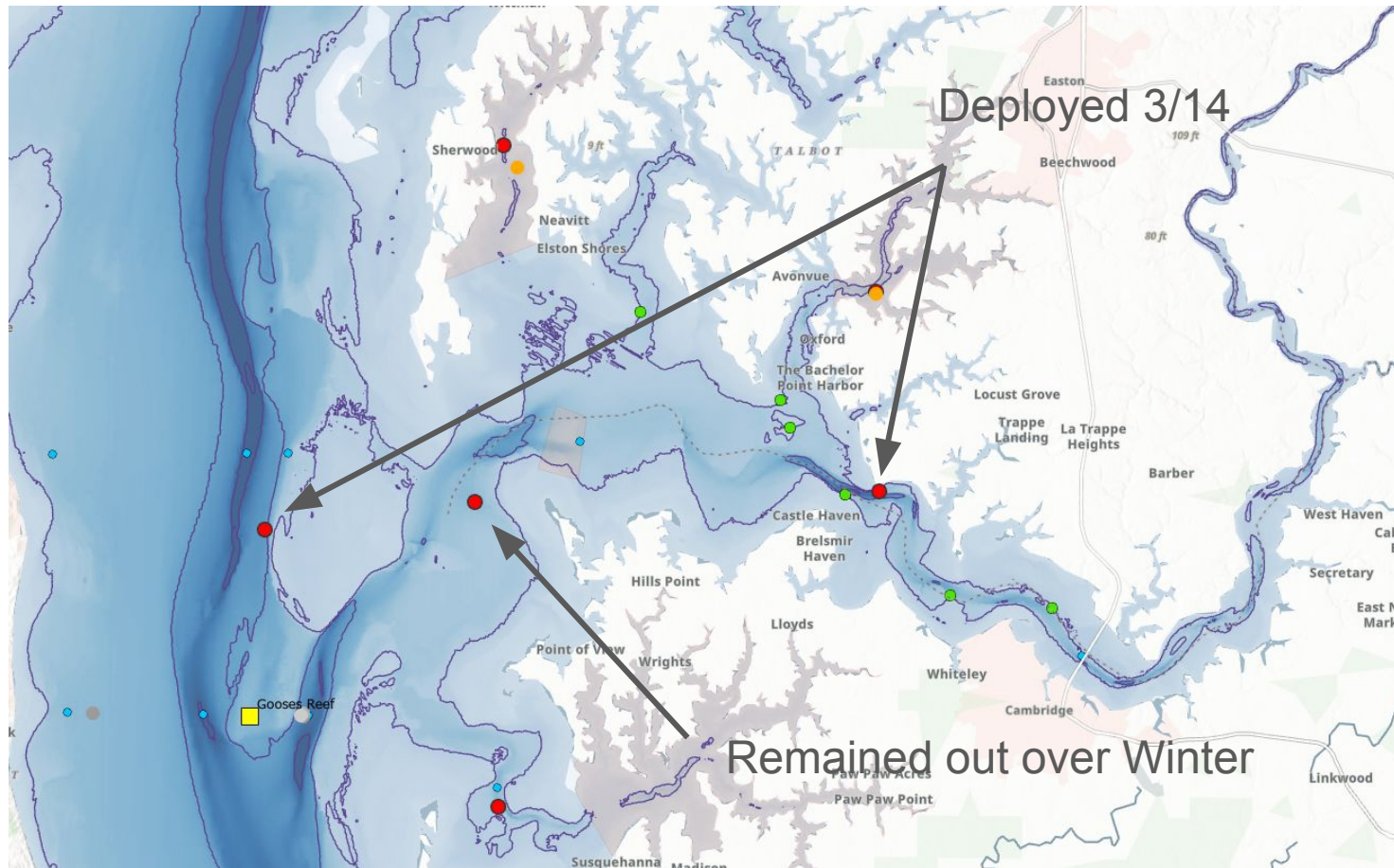


# Hypoxia Monitoring

Sharps Is (2)  
Lower Choptank (3)  
Chlora Point (2)

Tred Avon  
Harris Creek  
Little Choptank

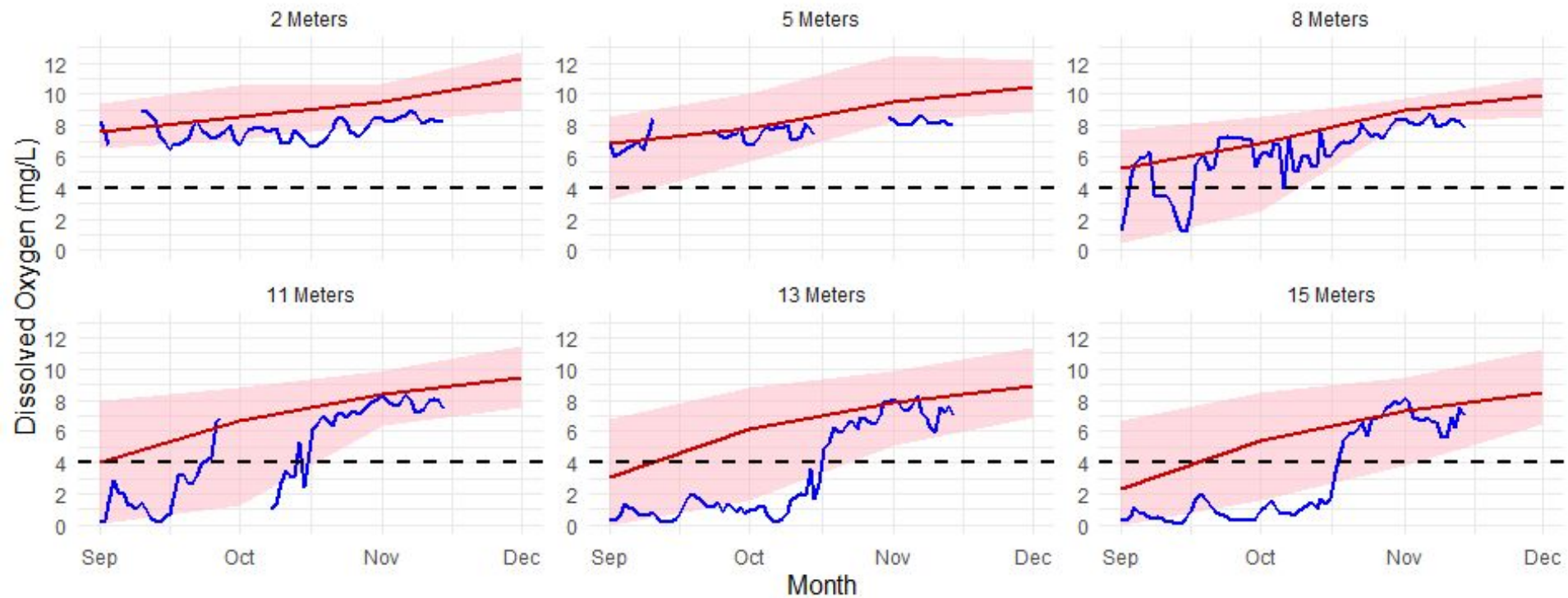
Virginia 1?  
Virginia 2?





## Sharps Island Monthly Dissolved Oxygen 1984-2023 Historical Data vs 2024 Daily Average

— 2024 Daily Average    - - - Biological Threshold    — Historical Mean 1984-2023    Historical Range 1984-2023



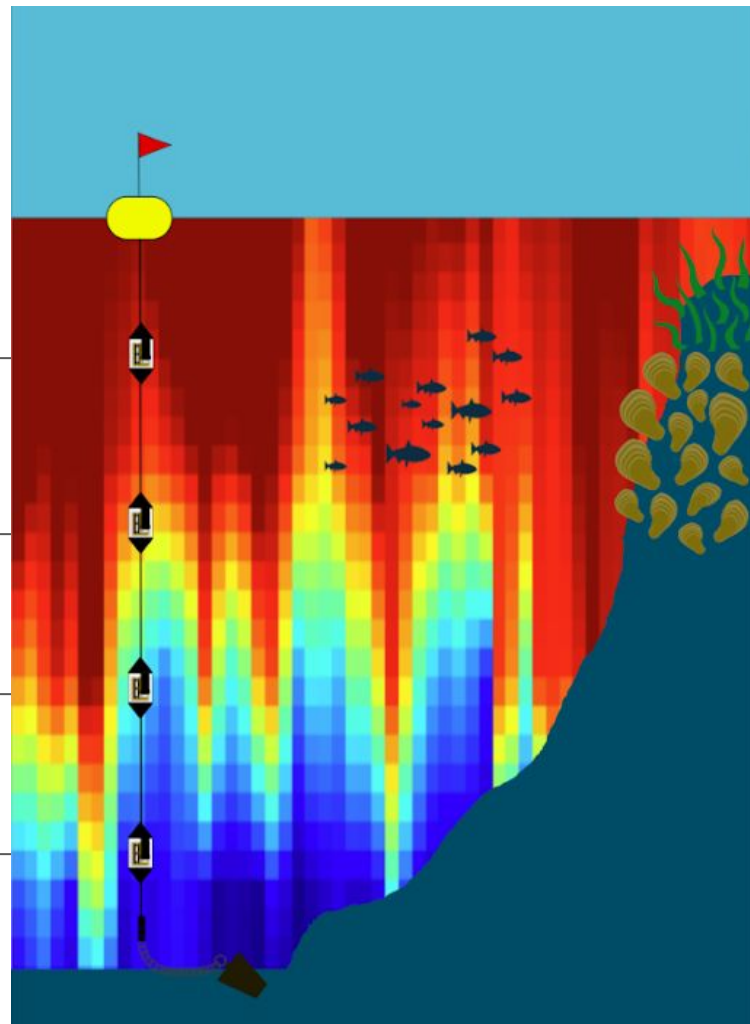
# Sensor Logic

~2m represents the limit of light penetration for SAV recovery

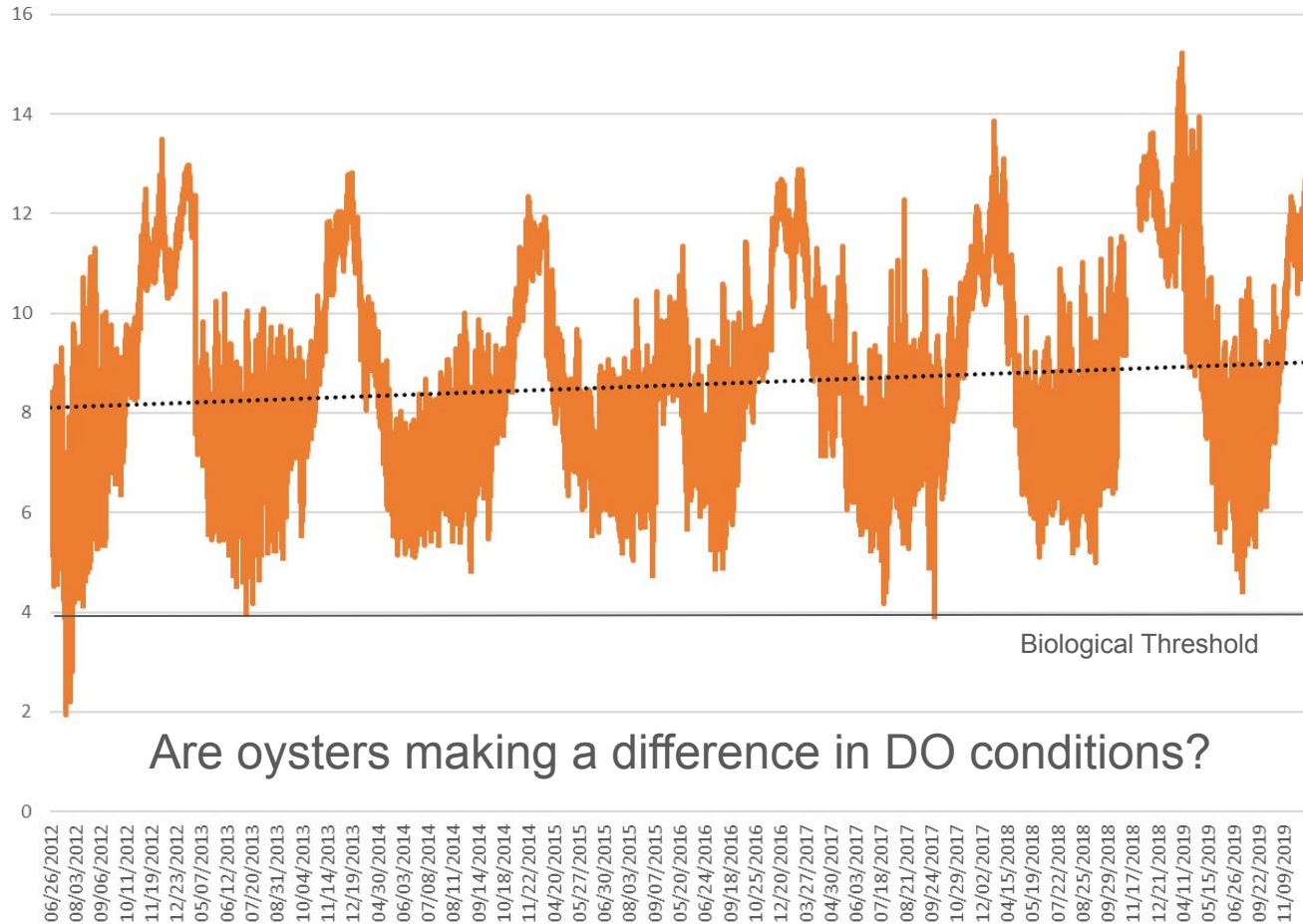
~5m represents the limit of oyster restoration to protect from low DO

~8m represents the depth of intermittent periods of low DO

~11m represents the depth of extended periods of low DO



Harris Creek DO\_mgL (2012-2019)



Are oysters making a difference in DO conditions?

## Harris Creek MDDNR

2012-2019

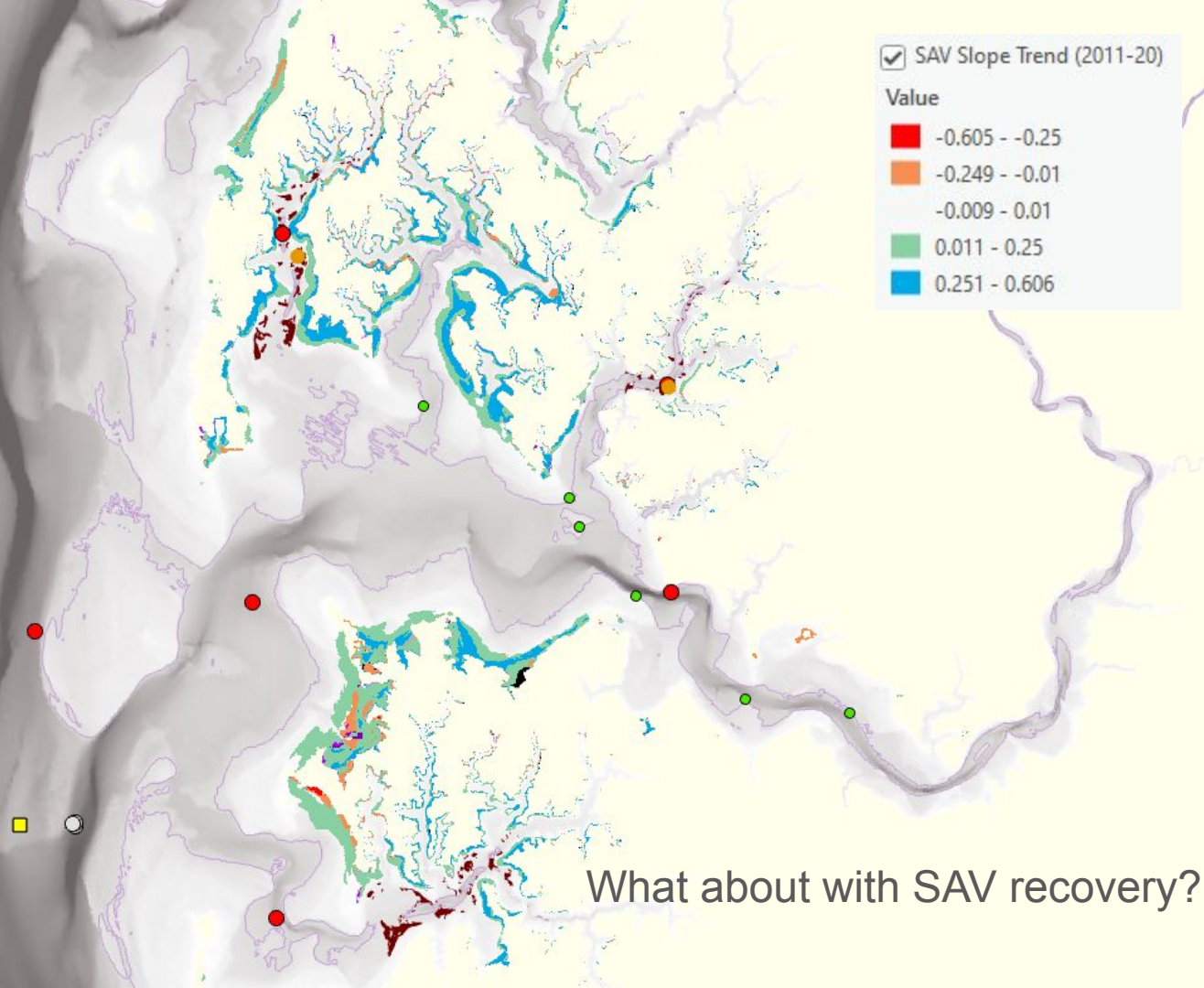
Shallow Water  
(0.5-2m)

Critical Habitats  
Marsh & SAV

Restored  
Oyster Reefs

Improving Conditions





# Living Resources

Shallow Water  
(0-5m)

Critical Habitats  
Marsh & SAV

Restoration  
Oyster Reefs

Spawning  
Grounds





# SAV Trends

Previous slide  
pointed to  
positive slope  
trends

This slide  
shows you  
where those  
trends are more  
reliable



## Your Feedback Requested

With a more limited capacity to monitor multiple geographies, does this approach seem sound?

Can this focused approach on the Choptank support your work ?

Would you like to be a maintenance partner?

Any other questions for us?

