



Hypoxia Collaborative Meeting - September 2025

September 24, 2025

2:00pm - 3:00pm

[Visit the meeting webpage for meeting materials and additional information.](#)

Purpose: The purpose of this meeting is to convene the Hypoxia Collaborative Team to discuss 2025 monitoring results & deployment status, options for 2026 deployment, GIT-funded projects, and to debrief the results of the CAP WG meeting.

Minutes

I. Introduction

Lead: Peter Tango (USGS)

Discussion Notes:

- Some announcements:
 - CBP has a new director, Dan Coogan, starting on October 5th
 - Lee will be going back to role as science director
 - Mike Malany is retiring at the end of the month - worked here for 3 decades - handing off work to Mary Stack - will meet with Mary in an upcoming meeting

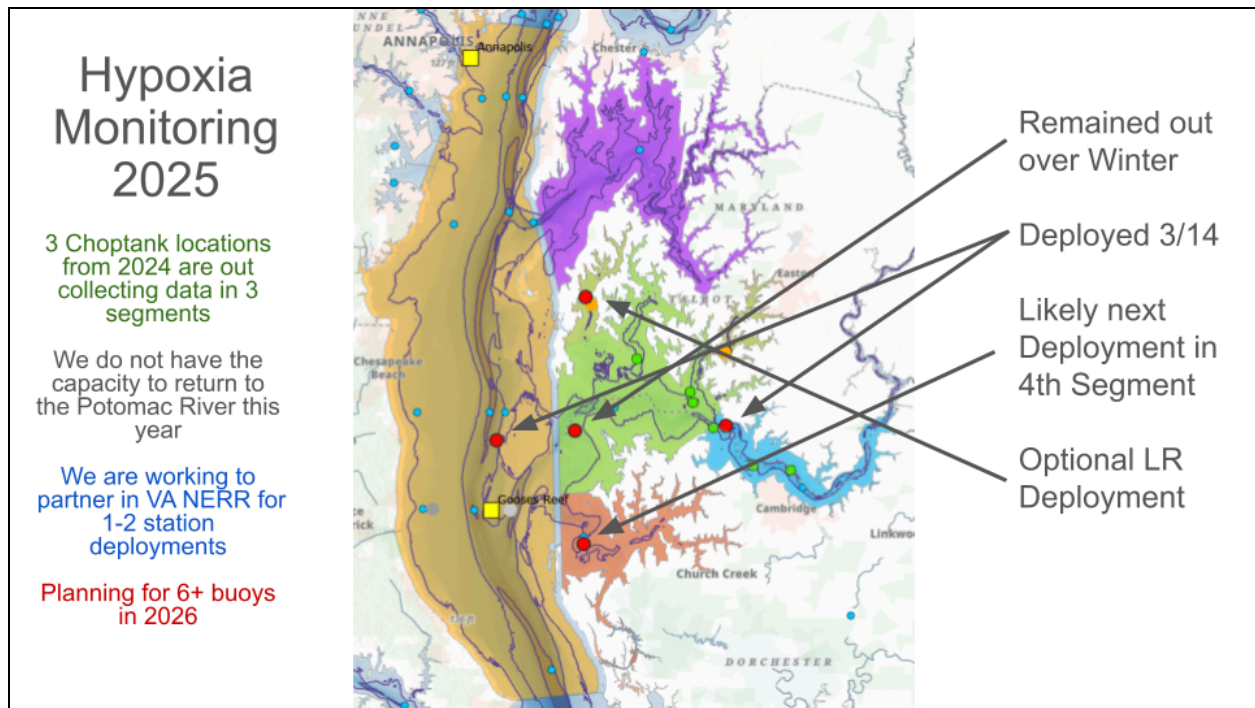
II. 2025 monitoring results & deployment status

Lead: Bruce Vogt (NOAA)

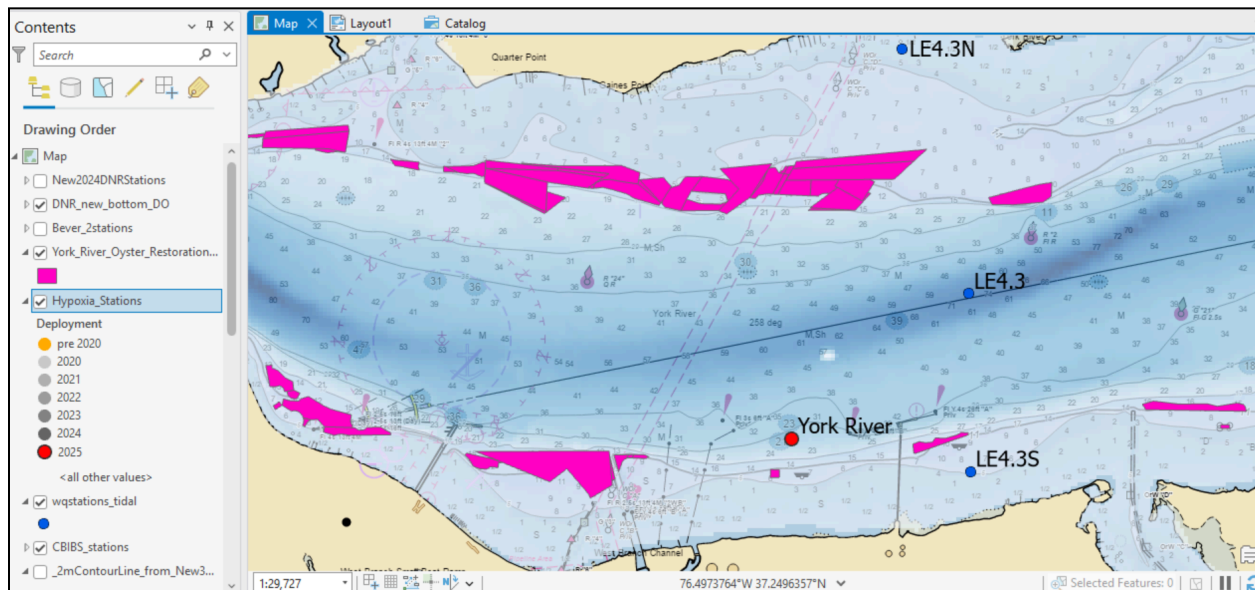
Overview of monitoring results and deployment status of 2025 bouys.

Discussion Notes:

- 3 Stations- 3 Segments associated with the Chopank River
 - CB4MH- 2nd year at Sharps Island; 2 partial years at East Gooses
 - CHOMH01- 3rd year at Lower Choptank
 - CHOMH02- 2nd year at Chlora Point
- Have been maintaining buoys throughout the summer



- 1 VA addition-
 - YRKPH- Lower York River maintained by VANERRS
 - Establishing maintenance on unofficial position
 - May move east to be more in line with LE4.3 & LE4.3S



- Sensor swaps as of 9/16/25
 - Sharps Island- 6 sensors
 - 19 (avg 3.1 per depth)
 - Lower Choptank- 3 sensors
 - 8 (avg 2.7 per depth?)

- Chlora Point- 3 sensors
 - 13 (avg 4.3 per depth)
- Lower York- Sensors
 - 3 - no coms, bad conductance, broken hardware
- Buoy at VIMS NEERS - NCBO team trained their team on maintenance - piloting now - unsure if buoy will stay in current location, it may move
 - Interested in building out more buoys - inventory available
- Discussion around real time data its importance for stakeholder confidence while using forecast
 - *Marjy Friedrichs (in the chat)*: Take a look at the profile data here in real-time! Just scroll down to "Vertical Profile Comparisons: Dissolved Oxygen":
https://www.vims.edu/research/products/cbefs/mod_data_comparison/

Model-Data Comparison- Comparison of real-time CBEFS salinity, temperature, and waterlevel to observed data.
- Discussion around summer 2025 fish kills near Willows Beach and Chesapeake Beach. Conclusion that fish kill was likely due to a wind driven event.
 - Striped bass habitat squeeze
 - *Mark Trice (in the chat)*: Striped bass habitat conditions.
<https://eyesonthebay.dnr.maryland.gov/eyesonthebay/StripedBassHabitatConditions.cfm>
- Discussion around how long to keep sensors out and how many for 2026.
 - **Action Item:** NCBO to follow up and evaluate what the performance is for each location and depth
 - The goal of every hour every day for the 90 days in a season - lofty and possibly unrealistic
 - Need to use lessons learned from the buoys to assess this
 - Agreement that reliability and continuity of operations is the most important thing to focus on until we reach that goal

III. Options for 2026 deployment

Lead: Bruce Vogt (NOAA)

Discussion to start comparing options for 2026 deployment of buoys. Questions that Need Answers

- o For Assessments- when are we done?*
- o For Sentinel sites- do we keep one of our deployments out?*

Discussion Notes:

- Assumed Inventory
 - o Buoys: 7
 - o Controllers: 8
 - o Sensors: 114 Total delivered from SoundNine
 - 37 sent to SoundNine for repair / calibration in 2025 (3 from VA here)
 - 15 in the field
 - 37 in NCBO/VA inventory
 - 16 at NCBO that need tested
- Contracting
 - o 2025- \$63K (covers calendar year maintenance- 2025)
 - DO/Conductivity/Temp/Pressure cell replacements
 - Calibrations
 - Hosted Data Service
 - o 2026- \$81K (covers calendar year maintenance- 2026)
 - Same as above
 - Few additional sensors (assuming \$9)
 - o 2027- \$Unknown
 - Replacements & Calibrations
 - Recapitalization of some number of sensors
 - Gaps in this result in issues later
 - Move toward more reliable sensors?
- Request to have 3 full years of data for one location. Preference for the early part of spring in order to capture migratory data (February - May).
- Suggestion to review data requirements for specific locations (take advantage of data that is already collected in a certain site)
- Assuming there will be 7 buoys for 2026 - having more discussion following this on where those should go - in accordance with the assessment needs - getting more clarity on that would be good.
 - o Jeremy Testa (*in the chat*): The data I have seen suggest that 2025 was a bad year for hypoxia. Keeping the buoys in the Choptank again might make sense to potentially have a comparison to 2026 that might not have as extensive of hypoxia (and anoxia)

- Rebecca Murphy (*in the chat*): The Sharps Island location has been useful to us on the 4D team due to its depth and stratification. Having another year there would be good, and result in 3 years of data to serve as a case study for those 3 year bins for criteria assessment we were talking about.
- Having a site that we keep as a reference site offers a lot of benefits. Plans to discuss what we need to have and what that duration needs to be.

IV. GIT Project and CAP WG Meeting Debrief

Lead: (Peter Tango, USGS and Dong Liang, UMCES)

Project Overview and Recent Update Presentation from Dong Liang, UMCES

Discussion Notes:

- Discussion around enhancing long term monitoring to weekly and the effect of that - as well as using community groups to assist with weekly monitoring (hybrid middle ground)
- Brief discussion regarding evaluating the 1 day and 7 day mean - future plans to continue discussion
- Discussion around other potential locations for buoy deployment
 - Question about interest in the James River - longtime segments available can be coupled with other datasets
- Decision to speaker in more depth on 2026 deployment

V. Adjourn

Next Meeting: TBD

Attendees:

- Bruce Vogt (NOAA), Peter Tango (USGS), Allison Welch (CRC), Christina Garvey (CRC), Cynthia Johnson (DEQ), Amanda Shaver (DEQ), Dong Liang (UMCES), Rebecca Murphy (UMCES), Aaron Bever (Ancho QEA), Lewis Linker (EPA), Marjy Friedrichs (VIMS), Breck Sullivan (USGS), Elgin Perry (Independent Statistician), Amir Reza Azarnivand (UMCES), Carl Friedrichs (VIMS), Jeremy Testa (UMCES), Mark Trice (MDNR)

