



Chesapeake Bay Program Hypoxia Collaborative Meeting
Friday, May 21st, 10:00 AM - 12:00 PM

Meeting Link:

<https://umces.webex.com/umces/j.php?MTID=m9602e87d6f521de0556b7f0080d2cd05>

Meeting Number: 120 886 6214

Password: CBP2021

Introduction (*Peter Tango (USGS) and Bruce Vogt (NOAA): 5 minutes*)

Establishing Profiler Locations (*Peter Tango, Jay Lazar, and Rebecca Murphy: 30 minutes*)

- Finalize NCBO locations of choice for summer 2021 deployment
 - Insights from CB4.3E's pilot data and historical depth sampling by MDNR at 4.1W/5.1W (Rebecca Murphy)
 - CB4.1W, CB5.1W, (pros and cons)
 - *CB5.1W presents potentially high boat traffic challenges as compared to CB4.1W*
 - *CB4.1W provides multiple arrays within a single bay segment for assessing within-segment habitat characterization*
 - *Action: Decision on two stations (CB4.3E already confirmed)*
- Propose a paradigm for sensor distribution on arrays
 - *CB4.3E is reference instrument and other deployments apply sensors at the same distribution in vertical within the allowable depth afforded by other location when using fixed-sensor arrays*
 - *This results in 10 sensors on the 4.3E instrument starting at 1m and located every 2m in depth to the bottom. Other arrays would start at 1m and have sensors every 2m to their bottom depth*
 - *Matching a reference instrument - At a minimum having that as sensor distribution (Consistency between NCBO, VIMS, MDNR, others in future)*
- Discuss locations of potential MDNR and VIMS profilers

QA/QC Guidance (*Durga Ghosh: 20 minutes*)

- ConMon requirements and process for approval

Making Connections (*Peter Tango: 15 min*)

- Connections between Hypoxia Team and concurrent efforts (BORG, PSC monitoring review, etc.)
 - 4D interpolation directions will help understand the value of each additional instrument for addressing spatial and temporal data needs.
 - The PSC review targets 9 months for providing recommendations on what monitoring is needed to close capacity and assessment gaps.
 - As we establish a vertical profiler/ConMon network, we want to be cognizant of what the total investments needed are to establish the network at some minimum level of operation
 - Price out any additional instrument costs and any further support costs on a 5 year time horizon .
 - This 9 month review is a target timeline to chart out what we have, what might be missing and why, and what is needed in resources to close that capacity gap and maintain this network operation.
 - We don't need all the answers in 9 months. We need a good understanding and solid justification for any recommendation that asks for additional financial resources.
 - Linkages will likely lead us to a summit in the form of one of the STAC Advanced Monitoring workshop sessions, for example, on the issue of sampling design and program operation.

Outstanding Administrative Questions (*Justin Shapiro and Breck Sullivan (CRC): 15 minutes*)

- When do we convene - sticking with monthly on Fridays?
- Are there other participants we should invite to the recurring meetings?
- Establishing a timeline for this project (Responding to PSC request)
- Revisiting our key deliverables: Cost, modeling considerations, end products

“Down the Road”: Longer Term Sampling Design Considerations (*Peter Tango: Remaining time*)

- Taking inventory of available DO sensors to supplement/flank the high resolution vertical profilers
 - *Ex. High density groupings to gain insight on local-scale water quality variability*