

Chesapeake Bay Program's (CBP) Scientific and Technical Advisory Committee (STAC) Workshop – April 22, 2022

Advancing Monitoring Approaches to Enhance Tidal Chesapeake Bay Habitat Assessment on Monitoring Water Clarity and Chlorophyll a

Virtual Meeting

Workshop webpage

Friday, April 22nd Register in advance

Exact Times Are Subject to Change

9:00 am	Welcome, Introduction and Overview of Workshop Goals
9:30 am	State Water Clarity Assessment Review • 9:30 am MD and VA Water Clarity Assessment — Mark Trice (MD DNR), David Parrish (VIMS) • 9:45 am DC Water Clarity Assessment — Nicoline Shulterbrandt (DOEE)
9:55 am	 Resources and Insights for Extending to Baywide Annual Clarity-related Analyses 9:55 am Short and long-term station-specific water clarity secchi trends — Rebecca Murphy (UMCES) 10:15 am Remote sensing of Water Clarity in the Chesapeake Bay: Advantages and disadvantages — Jessie Turner (UConn and VIMS)
10:35 am	Break
10:50 am	 Resources and Insights for Extending to Baywide Annual Clarity-related Analyses (Continued) 10:50 am Merging Landsat-8, Sentinel-2, and in situ data to improve coastal water clarity monitoring — Sarah Lang (University of Rhode Island) 11:10 am NOAA satellite-based Products for Chesapeake Bay Water Clarity— Ron Vogel (NOAA Satellite Applications & Research/CoastWatch)
11:30 am	 Group Discussion Participants will discuss in a group what products available for decision-making they are currently utilizing. This conversation is aimed at working through the following questions: Are advances in water clarity monitoring suitable to adopt as an update for our programs? What advantages or limitations if any do you see to adapting our monitoring to use outputs of recent research to advance our assessment of water clarity in the bay? Cost Spatial coverage Image resolution Habitat considerations Satellite continuity and comparability Policy considerations What monitoring efforts can we recommend to enhance calibration and accuracy of assessments with satellite based approach. Does satellite-based assessment offer an option for annual frequency baywide water clarity assessments? What analyses updates or changes might be necessary?

12:00 pm	Lunch
1:00 pm	 Recommendations for Satellite-based Assessment of Water Clarity Participants will develop draft recommendations on steps toward a satellite-based assessment of water clarity for: Research needs Monitoring needs Management needs Policy needs
1:45 pm	State Chlorophyll a Assessment Review • 1:45 pm MD Chlorophyll a Assessment — Slides prepared by Matt Stover (MDE) • 1:55 pm VA Chlorophyll a Assessment — Tish Robertson (VA DEQ)
2:05 pm	Break
2:15 pm	 Resources for Chlorophyll a-related Analyses 2:15 pm Short and long-term station-specific CHLA secchi trends — Rebecca Murphy (UMCES) 2:35 pm USGS satellite-based CHLA assessment for Chesapeake Bay — Kendull Wnuk (USGS) 2:55 pm NOAA satellite-based CHLA assessment for Chesapeake Bay – Michelle Tomlinson (NOAA)
3:15 pm	Break
3:25 pm	 Group Discussion/Recommendations: This discussion is aimed at what recommendations are needed from the current assessment to expand criteria, develop new criteria, and possibly new assessment protocols. Are you using any of the products available for decision-making? If not, why not? Temperature sensitivity: Do we have the right definitions of spring and summer? Participants will develop draft recommendations on steps toward a satellite-based assessment of Chlorophyll a for: Research needs Monitoring needs Policy needs
4:25 pm	Adjourn