



**Scientific, Technical Assessment and Reporting Team
(STAR) Meeting**
Theme: Emerging Monitoring Technologies and Networks

Thursday, April 25, 2023

9:30AM – 11:30 AM

Join Virtually by Webinar: [Link](#)

Meeting Number: 240 689 654 942

Password: Qcsc74

Or join by phone: Dial +1 469-208-1525 and enter Access code: 931 671 128#

Meeting Materials: [Link](#)

This meeting will be recorded for internal use only to assure the accuracy of meeting notes.

**Closed captioning will be available for this meeting. To turn on the closed captioning, click on the 3 ellipses (More actions), then click on "Turn on live captions" (preview).*

AGENDA

9:30 AM **Welcome, Introductions & Announcements – Ken Hyer (USGS) and Kimberly Van Meter (Penn State) - STAR chair and vice chair, Breck Sullivan (USGS) STAR Coordinator, Peter Tango (USGS) CBP Monitoring Coordinator**

Announcements

Upcoming Conferences, Meetings, Workshops and Webinars

- [Choose Clean Water Conference](#) – May 20-22, 2024, Ellicott City, Maryland.
- [Chesapeake Community Research Symposium](#) – June 10-12, 2024, Annapolis, Maryland.
- [American Planning Association \(APA\) Virginia 2024 Conference](#) – July 21 – 24, 2024, Williamsburg, Virginia.

Guiding Questions to consider during presentations on how to incorporate the topics into CBP decision making and products:

- What insights might these monitoring techniques and recommendations reveal? How might they address CBP science needs?
- How can the CBP leverage this information to address challenges raised by CESR, Beyond 2025, and the STAC Rising Water Temperatures Report?
- What other emerging monitoring efforts or topics should we highlight? These should focus on the CBP Outcomes and challenges raised by the reports mentioned above.

9:40 AM Stream Team – Dr. Gregory Noe (USGS)

Dr. Gregory Noe (USGS) will share the goals and approach of the USGS Stream Team, a study measuring stream ecosystem health responses to Best Management Practice implementation and to Land Use in smaller nontidal watersheds around the Chesapeake.

10:20 AM Monitoring of HABs using hyperspectral remote sensing – Dr. Natalie Hall (USGS)

Dr. Natalie Hall, a Supervisory Geographer at USGS in the MD-DE-DC Water Science Center, will present some of her work on the Monitoring of Harmful Algal Blooms (HABs) using Hyperspectral Remote Sensing, including details of how the microscope-based hyperspectral system was validated through a NIST (National Institute of Standards and Technology) collaboration for collection of algal data. Data from this project forms the basis of a developing HABs spectral library and the project has expanded to validation of field hyperspectral sensors, as well as development of a field hyperspectral data collection protocol. These efforts seek to advance our ability to characterize potentially toxic HABs using hyperspectral imaging.

11:00 AM CBP Synthesis Needs: Informing STAC Science Synthesis - All

STAC is beginning the process of determining the STAC Science Synthesis topics, and they asked for support from STAR to identify CBP priority synthesis needs that can inform the RFP request. While the specific topic is yet to be decided, as outlined in their grant, synthesis project(s) should revolve around either effectively managing in the face of climate change or addressing issues arising from under-served stakeholder groups, providing some flexibility depending on program priorities.

Topics deemed "ripe" for synthesis would have clear research and management goals and should generate science-based conclusions. Synthesis projects must also consider the applicability of relevant management questions as they seek to understand and summarize available science. STAC is seeking high level topics from STAR which will help frame the RFP being released June 2024.

- What are the big issues the CBP needs to tackle and would benefit from synthesis on the topic?
- What are high level themes that overlap multiple outcomes?
 - i.e. Rising Temperatures was a theme impacting multiple outcomes and resulted in synthesis effort to understand the state of the science and recommendations for moving forward.

- Based on the priority climate science needs already identified, are there major themes to share with STAC?

11:30 AM Adjourn

Next meeting: May 23rd, 2024