Chesapeake Bay Program
Science. Restoration. Partnership.

Integrated Trends Analysis Team (ITAT)

Workgroup Meeting

Wednesday, March 25th, 2025
10:00 – 11:00 AM

Join the meeting via Microsoft Teams
Meeting ID: 221 406 840 669 16 | **Passcode:** 6Ar9jQ6W

Call: +1 469-208-1525 | **Conference ID:** 327 101 737#

Visit the meeting webpage for meeting materials and additional information.

This meeting may be recorded for internal use only to assure the accuracy of meeting notes. To turn on closed captioning, click on the three ellipses (More actions), then click on "Turn on live captions" (preview). To request accommodations, please contact Gabriel Duran at gduran@chesapeakebay.net.

Please read the following information carefully, as our meeting policies have changed:

- All meeting attendees' cameras and microphones will be muted at the start of the meeting.
- To request access to the microphone and camera, all meeting participants will be required to use the raised hand feature on Teams. Once access has been granted by the meeting organizer, you will then be allowed to unmute your mic and turn on your camera. Unless instructed otherwise, once a participant has microphone or camera access, they will have this permission for the remainder of the meeting.
- Access to chat will be provided as well. Should it be necessary, the Q&A feature on Teams will be utilized to field participant questions.

Compromised Meeting Plan: If the meeting's privacy is compromised, the meeting staffer and coordinator will send an email to all Members, alternates, staffers, coordinators, and interested parties. Within the email, you will find a new meeting link, instructions on sharing this information with external partners, and any necessary adjustments to the meeting schedule. Please do NOT share this information publicly or post it to the Chesapeakebay.net webpage.

Agenda

I. Welcome, Introductions & Announcements (10:00-10:05 AM)
Lead: ***Breck Sullivan*** *(U.S. Geological Survey, USGS) ITAT Co-coordinator, and* ***Kaylyn Gootman*** *(U.S. Environmental Protection Agency, EPA) ITAT Co-coordinator.*

Upcoming Conferences, Meetings, Workshops and Webinars

- Choose Clean Water Conference – May 18-20, 2026. Lancaster, Pennsylvania.

- Chesapeake Community Research Symposium – June 1-3, 2026. Annapolis, Maryland. ***Registration is now open here!***

- Restore America's Estuaries' 2026 Coastal & Estuarine Summit – September 22-25, 2026. San Francisco, California.

II. Optical water typing in optically complex waters: a case study of Chesapeake Bay **(10:05 – 10:30 AM)**

Description: Optical water typing is widely used to classify water bodies from satellite-derived water color, but its application to broader water quality assessment remains limited. In this study, multispectral satellite reflectance data were grouped into ten optical water types (OWTs) in Chesapeake Bay using machine learning, revealing distinct spatial patterns and statistically significant differences in key water quality parameters, particularly total nitrogen. These results highlight the potential of OWTs to improve understanding of nutrient dynamics, support remote sensing algorithm selection, and enhance monitoring of water quality across optically complex estuarine systems. Comparisons with hyperspectral OWTs derived from a new hyperspectral NASA satellite further demonstrates the added value of increased spectral resolution.

Request Action: Informational.
Lead: Anna Windle DiPaola (National Aeronautics and Space Administration, NASA)
Materials: Meeting webpage.

III. Tributary Summaries **(10:30 – 10:45 AM)**

Description: Tributary Summaries reports on the trends and analyses for the major tributary basins within the Chesapeake Bay watershed. With continued support from Franklin & Marshall interns, ITAT has been able to publish a handful of Tributary Summary Reports and Geonarratives in 2025/2026. ITAT Leaders will update the team on the progress made and plans for 2026. You can access the Tributary Summaries here.

Request Action: Informational.
Lead: Breck Sullivan (USGS)
Materials: Meeting webpage.

IV. 2025 Tidal Trends Planning **(10:45 – 11:00 AM)**

Description: We will have a brief discussion to plan for the 2025 trends, including a list of parameters and dates to analyze, updates to baytrends and a check in with partners on any issues or changes they may have.

Request Action: Informational, for discussion.
Lead: Rebecca Murphy (University of Maryland Center for Environmental Science, UMCES)
Materials: Meeting webpage.

V. Adjourn **(11:00 AM)**

Next meeting: April 22nd from 10 AM – 12 PM.