Chesapeake Bay Program
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Bay Oxygen Research Group Meeting

Monday, December 15, 2025
12:00 PM – 1:30 PM

Join the meeting via Microsoft Teams
Meeting ID: 289 088 549 839 97 | **Passcode:** Gk2q7iL3
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Visit the meeting webpage for meeting materials and additional information.

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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.

Purpose: This is the December monthly meeting of the Bay Oxygen Research Group (BORG). In this meeting, Rebecca Murphy (UMCES) and Jon Harcum (TetraTech) will be presenting a consolidation of their recent conference presentations to answer the question, "how is data used in the 4-d interpolator?" After this presentation, the development team will be answering questions previously posed by participants.

Agenda

I. **Welcome, Introductions & Announcements** **(12:00 PM – 12:20 PM)**
   *Lead: **Breck Sullivan** (U.S. Geological Survey, USGS)*
   Follow up from November BORG Meeting

Breck will be reviewing and giving updates on the topics discussed at the November BORG meeting. Members and the development team have expressed interest in continuing the conversations on these two topics, as described below.

Proposed thinning:

- The five segments that Rebecca Murphy (UMCES) proposed were approved by the BORG members. BORG members also wanted to see the findings for the rest of the 50m resolution segments.

Subsampling and weighting:

- Rebecca's presentation on subsampling continuous monitoring data sparked conversation around the degree at which data is subsampled with varying opinions from the members.

II. **How Data is Used in the 4-D Interpolator** (12:20 PM – 12:50 PM)
*Lead: **Rebecca Murphy** (University of Maryland Center for Environmental Sciences, UMCES) and **Jon Harcum** (TetraTech)*

To provide insight into how the 4-d interpolator uses the data provided, Rebecca and Jon will be combining their presentations from the Coastal Estuarine Research Federation (CERF) Conference. At CERF, Rebecca's presentation focused on the development and preliminary results of the space-time interpolation tool for Chesapeake Bay dissolved oxygen, while Jon presented on parameterizing the correlation structures and daily cycle.

III. **Addressing Stakeholders Questions** (12:55 PM – 1:30 PM)
*Lead: **Breck Sullivan** (USGS)*

Focus Question: Would it be possible to walk through, in more detail, the process of how the 4D will function? For each specific type of DO data that will be inputted, how will it be processed and used (i.e. where is the raw data going, what is being done to it, how is it being merged with the other data types for the final product?)

Other related questions:

What are the shortest time values that will be used in the 4-d interpolator? Is it one hour? We're curious why this was chosen.

Why was the original large scale data structure developed for a daily subset? What was the benefit for using a daily subset?

IV. **Adjourn** (1:30 PM)

Next Meeting: January 26, 2026