Chesapeake Bay Program
Science. Restoration. Partnership.

Bay Oxygen Research Group Meeting

Monday, April 20, 2026
12:00 PM – 1:30 PM

Join the meeting via Microsoft Teams
Meeting ID: 216 055 068 110 74 | **Passcode:** Hu7q3o8E
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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 monthly meeting of the Bay Oxygen Research Group. In this meeting, participants will hear from Rebecca Murphy (UMCES) on the thinning of segment grids. This presentation follows a similar one from November 2025. After this presentation, participants will discuss and decide which segment grids can be thinned. This will be followed by a presentation from Jon Harcum (TetraTech) on the simulation count for the interpolator, where the group will discuss how many simulations should be used in the tool. Lastly, Breck Sullivan (USGS) will be sharing the timeline for the Phase 7 model and how the interpolator tool will fit into that.

Agenda

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

Upcoming Conferences, Meetings, Workshops, and Webinars

1. Choose Clean Water Conference – May 18-20, 2026. Lancaster, Pennsylvania.
2. Chesapeake Community Research Symposium – June 1-3, 2026. Annapolis, Maryland.
3. Restore America's Estuaries' 2026 Coastal & Estuarine Summit – September 22-25, 2026. San Francisco, California.
4. Chesapeake Watershed Forum – November 13-15, 2026. Shepherdstown, West Virginia. *Session proposals are currently open and due May 27. More information can be found here.*

Announcements

1. The 4-d interpolator development team is starting to work on a case study with Fishing Bay.
2. The 4-d interpolator development team has received scenario output examples from Richard to help with the comparisons of the 3-d versus the 4-d interpolators.

II. Grid Thinning (12:20 PM - 12:50 PM)

Lead: ***Rebecca Murphy*** *(University of Maryland Center for Environmental Science, UMCES)*

At the November 2025 Bay Oxygen Research Group meeting, Rebecca Murphy presented the proposal to thin the interpolation grids of five segments to address issues with run-time and file size. Four of these segments were at 50m resolution. During the discussion from this meeting, participants proposed thinning all of the 50m grid resolution segments to 100m and wanted to know how that would impact interpolation results. In this presentation, the development team will be presenting the results of their tests on the remaining 50m grid resolution segments. Based on potential impacts, the group will decide whether all or some 50m grid resolution segments should be thinned to 100m resolution. In addition, the team will present tests on whether any 100m grid resolution segments can be thinned to 200m.

Requested Action: Discussion. Decision will be made at the May meeting.

III. Testing Simulation Count (12:50 PM – 1:10 PM)

Lead: ***Jon Harcum*** *(TetraTech)*

The 4-d interpolator tool will run through several simulations of each segment to increase confidence in results. Previously, the development team shared that possibly 100 simulations would be reasonable, but how not yet conducted tests to determine the actual simulation count needed for stability in the results. The group is now considering these tests to settle on a simulation count. Jon will share the approach and hear feedback from participants.

Requested Action: Feedback.

IV. Phase 7 Timeline and Connection to 4-d Interpolator (1:10 PM – 1:30 PM)

Lead: ***Breck Sullivan*** *(USGS)*

Breck will share the Phase 7 model timeline and provide estimates on where the 4-d interpolator will fit into that timeline.

Requested Action: None.

V. Adjourn (1:30 PM)

Next Meeting: May 18, 2026