



Modeling Workgroup Meeting

Wednesday, October 28th, 2026
10:00 AM – 3:00 PM

[Join the meeting via Microsoft Teams](#)

Meeting ID: 286 170 406 146 51 | **Passcode:** rv2cX2pv

Call: +1 469-208-1525 | **Conference ID:** 396 193 590#

[Find a local dial-in number](#)

[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.

Purpose: This meeting will focus on progress updates and assessments across the Chesapeake Bay Program's modeling efforts, including the Main Bay Model (MBM), Conowingo Model, and local Multiple Tributary Models (MTMs). Attendees will review assessments of dissolved oxygen (DO), submerged aquatic vegetation (SAV), and shore erosion, as well as a GIS visualization tool connecting watersheds to tidal shallow water quality. Additionally, the agenda features a presentation on modeling living resource responses to prioritize water quality improvements and habitat enhancement across the bay.

Agenda

- I. Announcements and Amendments to the Agenda (10:00 - 10:05 AM)**
Lead: **Dave Montali** (Tetra Tech) and **Mark Bennett** (U.S. Geological Survey), MWG Co-Chairs.
- II. Update on Main Bay Model (MBM) Progress (10:05 – 10:40 AM)**
Lead: **Zhengui Wang**, Joseph Zhang, Jian Shen, and Wenfan Wu (VIMS).
Request Action: Informational.
Material: Meeting webpage [here](#).

Description: The MBM calibration refinements since the July Quarterly Review will be presented.

Discussion on MBM Progress (10:40 – 10:50 AM)
- III. Current Assessment of DO and SAV with the MBM (10:50 – 11:10 AM)**
Lead: **Richard Tian** (UMCES-CBPO)
Request Action: Informational.
Material: Meeting webpage [here](#).

Description: Richard will present the draft, current assessment of the DO and SAV-water clarity standard with the MBM for the four key scenarios of No Action, WIP3, E3, and All Forest. In addition, Richard will report on the progress on developing shore erosion input loads for the long-term 1985 to 2025 period.

Discussion on Current Assessment of DO and SAV with the MBM (11:10 – 11:20 AM)
- IV. Connecting Watersheds to Tidal Shallow Water Quality GIS Tool (11:20 – 11:40 AM)**
Lead: **Alex Gunnerson** (Koniag IT Systems)
Request Action: Informational.
Material: Meeting webpage [here](#).

Description: Alex will review a visualization tool that estimates the response of Open Water of a given estuarine segment to nutrients, including which watersheds contribute to that segment's water quality response.

Discussion of Connecting Watersheds to Tidal Shallow Water Quality (11:40 – 11:50 AM)
- V. Update on Conowingo Model Development (11:50 – 12:05 PM)**
Lead: **Earl Hayter**, **Jodi Ryder** (CoE-ERDC), and **Matt Rowe** (MDE).
Request Action: Informational.
Material: Meeting webpage [here](#).

Description: Progress in the development of Conowingo Model will be reviewed.

Discussion of the Conowingo Model Development (12:05 – 12:15 PM)
- VI. Lunch (12:15 – 1:00 PM)**

- VII. Modeling Living Resource to Support Chesapeake Bay Restoration (1:00 – 1:20 PM)**
 Lead: **Kenneth Rose** (UMCES); Colin Hawes, Dante Horemans, and Marjy Friedrichs (VIMS).
 Request Action: Informational.
 Material: Meeting webpage [here](#).
Description: Kenny will describe an approach to assess living resource responses to water quality in order to prioritize areas for improving water quality and enhancing habitat. For additional information please see [Rose et al. JAWRA](#).
- Discussion of Modeling Living Resources (1:20 – 1:30 PM)**
- VIII. Progress on Patapsco/Back MTM (1:30 – 1:45 PM)**
 Lead: **Harry Wang**, Breanna Maldonado (VIMS); and Jeremy Testa, Allison Dreiss (UMCES).
 Request Action: Informational.
 Material: Meeting webpage [here](#).
Description: Progress on the Patapsco/Back MTM will be reviewed.
- Discussion of Patapsco/Back MTM Progress (1:45 – 1:55 PM)**
- IX. Progress on Rappahannock MTM (1:55 – 2:05 PM)**
 Lead: **Qubin Qin** (East Caroline University), and Jian Shen, Zhengui Wang, and Pierre St-Laurent (VIMS).
 Request Action: Informational.
 Material: Meeting webpage [here](#).
Description: Progress on the Rappahannock MTM will be reviewed.
- Discussion of Rappahannock MTM Progress (2:05 – 2:15 PM)**
- X. Progress on Choptank MTM (2:15 – 2:30 PM)**
 Lead: **Jeremy Testa**, William Nardin, Elizabeth North, Larry Sanford (UMCES), and Jiabi Du (Texas A&M).
 Request Action: Informational.
 Material: Meeting webpage [here](#).
Description: Progress on the Choptank MTM will be reviewed.
- Discussion of Choptank MTM Progress (2:30 – 2:40 PM)**
- XI. Progress on Patuxent MTM (2:40 – 2:50 PM)**
 Lead: **Amir Azarnivand**, and Jeremy Testa (UMCES).
 Request Action: Informational.
 Material: Meeting webpage [here](#).
Description: Progress on the Patuxent MTM will be reviewed.
- Discussion of Patuxent MTM Progress (2:50 – 3:00 PM)**
- XII. Adjourn (3:00 PM)**
Next meeting: December 8th from 9AM-3PM.