



Modeling Workgroup Quarterly Review

July 10, 2018

CBPO Conference Room - The Fish Shack
410 Severn Avenue Annapolis, MD 21403

For Remote Access:

Adobe Connect: <https://epawebconferencing.acms.com/modeling> (enter as guest)

Conference Line: 202-991-0477 Code: 9037008

Event webpage:

https://www.chesapeakebay.net/what/event/july_2018_modeling_workgroup_quarterly_meeting_day_1

10:00 Announcements and Amendments to the Agenda – Lee Currey, MDE; Dave Montali, Tetra Tech; and Mark Bennett, USGS

10:10 Changeover of Modeling Workgroup Cochairs – Lee Currey, MDE and Mark Bennett, USGS

After five years of adept and skillful leadership and a successful build and launch of the Phase 6 Model Lee Currey is passing his cochair baton to Mark to lead with Dave the development and deployment of the 2019 CBP Models for the assessment of climate change in the Chesapeake watershed and Bay.

10:20 Review of the July 9, 2018 PSC Meeting - Dave Montali, Tetra Tech

A brief review of the previous day's PSC meeting with respect to elements relevant to the Modeling Workgroup's activities will be offered.

10:30 Model Team Activities – Gary Shenk, USGS-CBPO

Gary will describe the Modeling Team tasks over the last and the upcoming quarters including different tasks in support of WIP planning targets, the final inputs and lockdown of the Phase 6 Model, the climate change assessment, model documentation, support for James River chlorophyll modeling, optimization, and more.

10:50 Update on 2025, 2035, and 2050 CC Assessment – Gopal Bhatt, Penn State and Lew Linker, EPA-CBPO

Early work on the 2019 assessment of climate change in the Chesapeake watershed and tidal Bay will be presented.

11:20 Update on Scenario Optimization Tool for CAST – Daniel Kaufman, CRC

Danny will provide an update of the ongoing development of an optimization tool for scenarios run in Phase 6 CAST. The developmental steps anticipated and a discussion exploring the options available to the CBP partnership to best serve decision making at all scales from the state-basin to local levels will be discussed.

11:40 Update on Estimates of Observed Chesapeake Surface and Bottom Temperatures Over 30 Years – Andrew Sommerlot, UMCES and Richard Tian, UMCES

Andrew will present a final assessment of the influence climate change has on Chesapeake hypoxia with respect to the sensitivity of response of Bay water vertical temperature profiles to temperature changes in river inflow, ocean boundary, and air temperatures.

12:00 LUNCH

1:00 Assessment of Open Water Quality Response to Nutrient Loads from Different Geographic Regions – Andrew Sommerlot, UMCES

The CBP has been successful in relating Deep Channel and Deep Water DO response to nutrient loads from different regions of the watershed, but the Open Water designated use has remained a challenge. In response, Andrew will present, for approval by the Modeling Workgroup, a new analytical approach that relates nutrient loads from different geographical regions to chlorophyll responses in Open Water segments throughout the Bay.

1:30 James Chlorophyll Assessment – Tish Robertson, DEQ

Tish will describe the progress made on the James River chlorophyll assessment.

2:00 Adjourn