Modeling Workgroup Meeting

December 5, 2019
CBPO Conference Room - The Fish Shack
410 Severn Avenue Annapolis, MD 21403

Event webpage:
https://www.chesapeakebay.net/what/event/modeling_workgroup_december_inperson_meeting
For Remote Access:
Zoom Link: https://zoom.us/j/203996627
Phone number: 929-205-6099 **Meeting ID:** 203-996-627
To enter the webinar, please open the webinar link first

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

10:05 Evolution of the Phase 6 Model for WIP3 Application and Phase 6 Climate Change Assessment Model – Gary Shenk, USGS-CBPO
What has changed between the July 2018 Phase 6 Model locked down for WIP3 application and tracking, and the current Phase 6 Model used to assess climate change in the Chesapeake watershed and tidal Bay will be reviewed.

10:20 Phase 6 Climate Change Model Initial Findings: Hot, Wet, and Crowded – Lew Linker, EPA-CBPO
Overall scenario results of 2025, 2035, 2045, and 2055 will be reviewed. The scenarios will provide estimated future climate response and estimated future climate and land use response. Nutrient loads are estimated to increase going forward increase but the TN and TP loads will become increasingly refractory (increased portions of Org N, Org P, and PIP) in scenarios beyond 2025.

10:40 Estimated CBP Nutrient Reductions to Respond to Climate Change Risk – Gary Shenk, EPA-USGS
Gary will review initial, preliminary nutrient reductions estimated to be needed to maintain DO water quality standard attainment under climate change risk for 2025, 2035, 2045, and 2055.

11:30 Elements of the Climate Change Scenarios – Lew Linker, EPA-CBPO
The various elements of the future scenarios of 2025, 2035, 2045, and 2055 will be reviewed.

11:45 A Review of How Climate Change Scenarios are "Scenarioed Against Observed Data" – Gary Shenk, USGS-CBPO and Richard Tian, UMCES
A review of how climate change scenarios are "scenarioed" against observed data will be presented.

12:00 LUNCH

1:00 Maintaining Resiliency of Stormwater and Restoration Practices – Tom Schueler, Chesapeake Stormwater Network
Initial work will be presented on the design and accelerated adoption of stormwater management practices appropriately designed for rainfall volumes and intensities expected in the future for all counties in the Chesapeake watershed.

1:20 A Response to the Challenge of Future Climate Risk in Stormwater Management – Normand Goulet (USWG Chair), Northern Virginia Regional Commission
A project to develop current and future IDF curves combined with web-based tools to make results accessible to potential users for portions of Virginia and DC will be described.

1:40 Climate Data Guide Website – Paul Ullrich, UC-Davis
Paul will describe work on a website to display model skill evaluation results using the decision-relevant metrics such as accuracy and reproducing IDF curves. The website will be a growing resource for practitioners to understand the strengths and weaknesses of different modeling methods and models.

2:00 ADJOURN