Modeling Workgroup Quarterly Review

July 16, 2019

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

Event webpage:
https://www.chesapeakebay.net/what/event/july_modeling_wg_inperson_meeting
For Remote Access:
Zoom Link: https://zoom.us/j/766174184
Phone number: 929-205-6099 **Meeting ID:** 766-174-184
To enter the webinar, please open the webinar link first

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

10:05 Phase 6 Climate Change Model Development – Gary Shenk, USGS-CBPO
Gary will present an overall plan and schedule for the 2019 model development of the Phase 6 simulation of future climate risk in the Chesapeake watershed and tidal Bay. The presentations today will have an associated request for approval by the Modeling Workgroup. The material planned for review in the October Quarterly will be also be outlined.

10:40 Simulation of Precipitation and Other Watershed Processes – Gary Shenk, USGS-CBPO
The approach taken for meteorology and precipitation (Section 2) land use (Section 3.2) agricultural inputs (Section 3.3) non-CSO direct loads (Section 3.4.2) CO_2 stomatal resistance (Section 4.1) deterministic simulation of hydrology and sediment (Section 4.2.3) and groundwater lag (Section 4.7.3) will be reviewed.

11:40 Simulation of CSO loads Under Future Climate Hydrology – Isabella Bertani, UMCES
The simulation of combined sewer overflow (CSO) loads under future climate hydrologies (Section 3.4.1) will be discussed and reviewed.

12:00 LUNCH

1:00 Simulation of Sea Level Rise, Ocean Boundary, and Other Estuarine Processes – Richard Tian, UMCES
The simulation of sea level rise (Section 5.1.3) ocean boundary, (Section 5.1.4) wind (Section 5.1.2) and expansion of algal growth and respiration curves (Section 5.2) will be reviewed.

2:00 ADJOURN

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10:05 Impacts of Sea Level Rise on Chesapeake Hypoxia: A Multiple Model Intercomparison Project – Pierre St-Laurent, VIMS
Progress made in assessing the influence of sea level rise on Chesapeake hypoxia through a multiple model intercomparison project will be presented

10:50 Analysis of Nutrient Limitation Changes in the Bay – Qian Zhang, UMCES
Qian will describe an analysis of observed nutrient concentrations in the Chesapeake that estimates changing nutrient limitation patterns in the Bay with the ongoing nutrient reductions of the Watershed Implementation Plans.

11:20 Scenario Optimization Tool for CAST – Daniel Kaufman, CRC
Danny will provide an overview of the ongoing development and improvement of a CAST BMP optimization tool. Strategies for expanding the set of BMPs included in the current Beta-1 optimization system will be described, along with online tool updates to a second Beta version planned for October.

12:00 Preliminary Analyses on Spatial and Climatic Factors Influencing Nitrogen Speciation Across the Chesapeake Bay Watershed – Isabella Bertani, UMCES
Overview of preliminary results on the analysis of WRTDS data to understand Nitrogen speciation patterns across the watershed as a function of climatic, geomorphological and land use factors.

12:20 Conowingo Pilot Project – Scott McLaughlin and Deni Chambers, Northgate Environmental Management, Inc.
Scott and Deni will provide an update of progress on the Conowingo Pilot Project including development of a sediment sampling and analysis plan in the Conowingo Reservoir.

12:30 ADJOURN