



Modeling Quarterly Review Meeting
January 7th, 2014
CBPO Conference Room - The Fishshack
410 Severn Avenue Annapolis, MD 21403

For Remote Access:

Adobe Connect: <https://epa.connectsolutions.com/modeling/> (enter as guest)

Conference Bridge: (866)-299-3188 code 267-985-6222#

Event webpage: <http://www.chesapeakebay.net/calendar/event/21182/>

- 10:00AM Announcements and Amendments to the Agenda – Currey-Montali**
- 10:05AM Estimated Susquehanna Flux of TP, TN, and TSS – Hirsch**
Bob will review WRTDS regression estimates of nutrient and sediment loads from the Susquehanna basin from a period before the current infill of Conowingo Pool and estimates of loads under current conditions.
- 11:15AM Long-term trends and mass-balance of sediment and nutrient loadings in the Lower Susquehanna River Watershed – Zhang**
Qian will present a study on long-term seasonal trends of sediment and nutrient loadings in the Lower Susquehanna River, with estimates of sediment deposition and scour in the Conowingo Reservoir.
- 11:35AM Progress on Lower Susquehanna Dams – Cerco**
Carl will describe the progress being made on the simulation of the Lower Susquehanna Reservoirs.
- 12:15PM Input and Output Loads to the Conowingo Pool – Yactayo-Bhatt**
Documentation of the scenarios and associated nutrient loads of scenarios used to examine the influence of Conowingo infill on Chesapeake Bay water quality will be presented.
- 12:30PM LUNCH**
- 1:00PM Extension of the WQSTM to 2011 and Shallow Water Assessment Plans – Cerco**
Extending the WQSTM to 2012 in order to incorporate, for the first time, the shallow water monitoring observations into CBP model calibration will be discussed.
- 1:30PM Review of CB Shallow Water Monitoring - Trice**
Mark Trice will review the entire mix of shallow water monitoring (SWM) sites from tidal fresh, mesohaline, polyhaline, with or without SAV, and with identification of high or low energy shore, and with the identification of sand or other substrate where possible. The objective is to use the SWM sites to calibrate proposed multiple models of shallow tidal water.

2:00PM

Atmospheric Deposition and Forest Loads - Eshleman

Keith will describe his recently published work (ES&T October 2013) of more than two decades of observations of atmospheric deposition of nitrogen on Chesapeake forested watersheds and the forest's response to reduced atmospheric deposition loads.

2:30PM

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Modeling Quarterly Review Meeting

January 8th, 2014

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- 10:00AM** **Announcements and Amendments to the Agenda – Montali-Currey**
- 10:05AM** **Center for Nutrient Solutions (CNS) – Shortle**
Jim will describe the newly established Center for Nutrient Solutions at Penn State. A recent initial kick off meeting that outlined the next 3 years of activity of the Center will be reviewed. A major objective of the Center is to improve the understanding and simulation of the fate and transport of nutrients in watersheds.
- 10:30AM** **APLE Phosphorus Model – Mulkey**
Alisha will describe the APLE model, how it was developed, and where it has been validated. The Modeling Workgroup will consider how the APLE Model could be used as a component of the Phase 6 Model.
- 11:10AM** **James Chlorophyll – Butt**
The status of the James River chlorophyll analysis will be reviewed.
- 11:30AM** **James WSM - Parker**
Andrew will review the variant of the Phase 5.3.2 Watershed Model that's been developed to support the James River chlorophyll analysis.
- 12:00PM** **LUNCH**
- 1:00PM** **Climate Change Impact Assessment – de Mooy**
Jennifer will present an overview of Delaware's Climate Change Impact Assessment trends and projections including estimated potential impacts to various resources including agriculture.
- 1:30PM** **Modeling Laboratory Action Team Update – Bennett**
Mark will present the Modeling Laboratory Action Team Management Board presentation for comments and recommendation.
- 2:00PM** **Spatial Distribution of Estimated Climate Change Influence in the Chesapeake Watershed – Pruzinsky**
An initial look at an analysis that will examine estimated climate change influences at the Watershed Model land-segment scale will be presented.

2:20PM

Analysis of SPARROW Sensitivities – Yactayo

Guido will describe an analysis of SPARROW nutrient export sensitivities to input loads and provide an initial look at an equivalent SWAT analysis.

2:50PM

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