

Modeling Quarterly Review Meeting
April 9th, 2013
CBPO Conference Room – The Fishshack
410 Severn Avenue
Annapolis, MD

For Remote Access:

<https://epa.connectsolutions.com/modeling> (Enter as guest)

Conference Bridge: (866)-299-3188 code 4102675731

Web Site: <http://www.chesapeakebay.net/calendar/event/18874/>

- 10:00 am Announcements and Amendments to the Agenda – Montali - Currey**
- 10:10 am Incorporating New Flow Data to Extend the Watershed Model Calibration Period to 2011 – Yactayo**
Guido will describe the extension of the Watershed Model to 2011 and the potential for new monitoring stations and associated new model segments in the Phase 6 Model. The criteria for using monitoring stations in the Watershed Model calibration will be reviewed and potential new monitoring stations and segments will be presented.
- 10:30 am Overall Progress and Strategy of Phase 6 Development – Shenk**
An overview of Phase 6 development progress will be presented.
- 10:45 am Analysis of AGCHEM Sensitivities – Tian**
Richard will describe progress in an analysis of AGCHEM nutrient export sensitivities to input loads. The work will document in detail the input-export response of all land uses in all model land-segments and provide a sound foundation for the development of an all-PQUAL based Phase 6 Watershed Model.
- 12:00 noon LUNCH**
- 1:00 pm Aggregate Air-Water Exchanges – Dennis**
A decision for moving the proposed aggregate air-water exchanges forward to the WQGIT based on the proposal's technical merits will be made. In addition, the recently proposed Tier 3 Fuel Rule will cut the amount of sulfur allowed in gasoline by two-thirds to improve the performance of the catalytic converters in engines and will also provide substantial reductions in atmospheric nitrogen deposition in the Chesapeake. Plans to quantify the Tier 3 Fuel Rule with the updated unidirectional and bidirectional ammonia versions of CMAQ will be described.
- 1:30 pm James Chlorophyll Study – Butt**
Progress in the multiyear study of chlorophyll in the tidal James River using augmented monitoring and modeling approaches will be presented.

**1:45 pm JAWRA Featured Collection, CERF Sessions on Chesapeake Bay, and
Proposed STAC Workshops – Linker**

An update on the Journal of Water Resources Association's (JAWRA) Featured Collection of ten articles on the Chesapeake TMDL will be presented, several Coast and Estuarine Research Federation sessions on the Chesapeake will be described, and an update on three proposed STAC workshops will be provided.

2:00 pm ADJOURN

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- 10:00 am Announcements and Amendments to the Agenda – Currey-Montali**
- 10:10 am Eutrophication and Aquaculture – Bricker**
Suzanne Bricker will examine nutrient removal associated with aquaculture and the influence of oyster filter feeders on water quality through the findings of two ongoing demonstration projects in Long Island Sound.
- 10:50 am Progress on Lower Susquehanna Dams – Cerco**
The affects of Conowingo infill on Chesapeake water quality standards will be examined though a series of different types of scenarios. The scenarios used in the analysis and their findings regarding the influence Conowingo infill has on the Chesapeake water quality standards of DO, chlorophyll, and SAV/clarity will be examined
- 12:00 noon LUNCH**
- 1:00 pm Assessment of 2009 – 2010 DO Stoplight Plots of DO – Linker/Tian**
An apparent anomaly in the DO stoplight plots regarding a sudden drop in simulated hypoxia between the 2009 and 2010 Progress Scenarios has been traced to an estimated decrease in nitrogen atmospheric deposition loads brought about through the Clean Air Interstate Rule (CAIR). The DO stoplight plots, the 2009-2010 Progress Scenarios, and the estimated nitrogen loads associated with them will be revisited.
- 1:20 pm WQSTM Simulation of Wind’s Influence on CB Anoxia – Wang**
Work demonstrating that the WQSTM is sensitive to wind’s influence on Chesapeake hypoxia will be presented. In addition, the successful extension of CH3D to 2011 will be demonstrated through time series of simulated and observed data.
- 1:40 pm Chesapeake Modeling Lab Action Team Status – Bennett**
The progress of the team formed to respond to the NAS recommendation for a Chesapeake Modeling Laboratory will be described and an outline for the final report of the Modeling Lab Action Team (MLAT) will be presented.
- 2:00 pm ADJOURN**