

Modeling Quarterly Review Meeting

July 11, 2012

Joe Macknis Memorial Conference Room (Fish Shack)

410 Severn Avenue

Annapolis, MD

For Remote Access:

Adobe Connect <https://epa.connectsolutions.com/modsc/> (Enter as guest)

Conference Bridge: 1-866-299-3188 Conference Code: 4102675731

- 10:00 am Announcements and Amendments to the Agenda – Linker**
- 10:15 am Comparing Gauge-Based with NEXRAD-Based Precipitation Data – Kim/Brubaker**
Sunghee Kim and Kaye Brubaker will describe a study investigating the response of hydrologic calibration to replacing gauge-based with NEXRAD-based precipitation data in the Watershed Model over the Potomac River Basin. Specific objectives were to 1) compare gauge-based and NEXRAD radar-based (Multisensor Precipitation Estimator, MPE) data at the point-pixel and spatially aggregated level, 2) evaluate the model's calibration accuracy using the different precipitation data sets, and 3) examine the response of model hydrology. Hourly gauge-point and MPE-pixel data were compared at 80 locations.
- 10:50 am Multiple Model Workshops – Weller and Friederichs**
Marjy Fredericks will describe the outcome of a recent STAC workshop on the potential for multiple model representation of shallow waters of the Chesapeake and the water quality standards that are applied there, and Don Weller will outline plans for an upcoming STAC workshop on the application of multiple models for Chesapeake Bay management.
- 11:10 am Chesapeake Modeling Lab Action Team Status - Bennett**
The results of the first meeting of the team formed to respond to the NAS recommendation for a Chesapeake Modeling Laboratory will be described.
- 11:20 am Expert Team Assessments of BMP and Management Action Refinements – Schueler**
Tom Schueler will describe the work of expert groups in stormwater management and stream restoration that are recommending long range plans for potential refinements to the 2017 watershed assessment and tracking tool.
- 11:40 am Solicitation for Jurisdictional Modeling Refinement Requests – Shenk**
The role of the Modeling Workgroup through the TMDL and WIP process and the evolving role of the Modeling Workgroup as we move forward toward the 2017 Midpoint Assessment will be discussed. Initiating this new work will be a request to the Bay Program partners by the Water Quality Steering Committee (WQGIT) to compile a specific list of modeling refinement requests prior to a September face-to-face meeting of the WQGIT.

12:00 noon LUNCH

1:00 pm James Chlorophyll Study – Butt

Ongoing work in the multiyear study of chlorophyll in the tidal James River using augmented monitoring and modeling approaches will be discussed

1:10 pm Water Quality Sediment Transport Model (WQSTM) Test of Winds Influence on CB Anoxia – Wang

An analysis using the Water Quality and Sediment Transport Model that examines the influence of prevailing winds on Chesapeake hypoxia will be presented.

1:40 pm A Chesapeake Watershed, Hydrodynamic, & Water Quality Model - Liang

Xin-Zhong Liang will describe the development of new integrated watershed, hydrodynamic, and water quality models of the Chesapeake

2:10 pm ADJOURN