Modeling Quarterly Review Meeting Agenda
January 8th and 9th, 2013

CBPO Conference Room – The Fishshack
410 Severn Avenue
Annapolis, MD

For Remote Access:

Adobe Connect: https://epa.connectsolutions.com/modeling (Enter as guest)
Conference Bridge: (866)-299-3188 code 4102675731
Web Site: http://www.chesapeakebay.net/calendar/event/18873/

January 8th, 2013 10AM – 3:15PM

10:00 AM **Announcements and Amendments to the Agenda – Montali - Currey**

10:10 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.

11:00 AM **New Approaches in CBP Modeling – Keeling – Pattison**
Bill and Kenn will propose a concept of a model test period and criteria that might be utilized for such an effort, as well as a new method for model for progress reporting.

11:30 PM **Proposed Forest Disturbance Project – Townsend**
A proposal will be presented by Phil Townsend (University of Wisconsin) to better characterize seasonal and inter-annual variability of forest nitrogen loads using of remote sensing imagery to estimate variability in nitrogen export from forests due to silviculture, insect defoliation, drought, and other disturbances to improve overall estimates of forest nutrient loads.

12:00 PM **LUNCH**

1:00 PM **Simulation of Bidirectional Ammonia with CMAQ – Bash**
Jesse Bash, the lead nitrogen modeler of EPA's Atmospheric Modeling and Analysis Division, will describe the new version of CMAQ that will be used for the 2017 Midpoint Assessment and the advantages of the new version for nitrogen chemistry in general and for ammonia transport and fate in particular.

2:00 PM **Refinements to State and Sector Analysis – Dennis**
Robin will update the Workgroup on refinements made to the state and sector analysis of NOx transport throughout the Chesapeake watershed, tidal Bay, and region.

2:30 PM **Explaining Trends through Multiple Lines of Evidence – Blomquist**
An analysis will be described that will use monitoring, modeling, and land management data to understand major changes in nutrient concentration and load across the Chesapeake watershed. The USGS will highlight recent information on trends in load at River Input Monitoring Stations and discuss ideas for a partnership to explain major drivers for these changes. Current plans are to focus upcoming work on the Potomac watershed.

3:00 PM **Model Work Plan Update – Linker**
Updates to the work plan on Phase 6 Model development will be reviewed by the Model Workgroup.

3:15 PM **ADJOURN**

January 9th, 2013 10AM – 2PM

10:00 AM **Announcements and Amendments to the Agenda – Currey - Montali**

10:15 AM **Progress on Lower Susquehanna River Watershed Assessment – Cerco**
Carl Cerco will describe the progress being made on the simulation of the Lower Susquehanna Reservoirs, including the initial linked Watershed Model and Water Quality and Sediment Transport Model scenarios being developed to examine Conowingo inflow effects on Chesapeake DO and SAV-clarity.

11:15 AM **DO Water Quality Standard Stoplight Analysis for LSRWA – Linker**
Lewis Linker will update the Modeling WG on the progress of the DO water quality standard stoplight analysis for the Lower Susquehanna River Watershed Assessment (LSRWA), including a description of the decision rules, first steps, initial findings, implications, and next steps.

11:30 AM **Proposed CoE/Maryland Workplan – Cerco**
A proposed CoE/Maryland workplan will be presented which provides for refinements to the WQSTM to support outstanding issues in the Chesapeake TMDL including 1) refining assessment of open water DO and clarity WQ standards, 2) assessing the influence of filter feeders on water quality, 3) supporting the James chlorophyll assessment, 4) assessing the influence climate change has on the TMDL, and 5) assessing the influence of Conowingo infill on water quality.

12:00 PM **LUNCH**

1:00 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.

1:15 PM **Multiple Models Workshop – Weller**
Don Weller will describe the upcoming second STAC Workshop on Multiple Models for CBP management (M3.2). This workshop will focus on the regulatory, legal, and broader management issues of the use of multiple models in a regulatory program.

1:30 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. The Modeling Laboratory Action Team (MLAT) will be making a presentation to the Management Board on their progress on January 10th, 2013.

2:00 PM **ADJOURN**