

Modeling Quarterly Review Meeting

January 11, 2012

CBPO Conference Room – The Fishshack

410 Severn Avenue

Annapolis, MD

For Remote Access:

Adobe Connect <http://chesapeake1.adobeconnect.com/modqr/> (Enter as guest)

**Conference Bridge: First dial (866) 299-3188 and
then enter as directed the code: 517-628-4390**

10:00 am Announcements and Amendments to the Agenda – Linker

10:05 am Holistic Restoration of Bivalve Molluscs – Kreeger

Danielle Kreeger of the Partnership for the Delaware Estuary will describe an analysis of nutrient sequestration by freshwater mussels and propose an approach for the holistic restoration of bivalve molluscs from the headwaters to the sea for water quality and other benefits.

10:40am Analysis of the Age of Water in the CB Watershed – Bhatt

Gopal Bhatt will describe an initial analysis that provides an estimate of the age of water in a small Chesapeake watershed using PIHM, a scalable, first principle, mass balance, distributed model that's operational in the Susquehanna. Prospects for scaling the analysis up to the entire Chesapeake watershed will be discussed. Further thoughts on the cloud approach to watershed model input data will be presented in anticipation of a full presentation in April's Quarterly Review.

11:15 am State and Sector Analysis and New 2030 Scenario – Dennis

Robin Dennis will describe new CMAQ Scenarios based on a 12 km grid that refine the analysis of nitrogen deposition fate in the Chesapeake watershed from the different sources (mobile, point, industrial, area) and State. A new 2030 Scenario with the latest assessment of established emission controls will also be reviewed

12:00 noon LUNCH

1:00 pm Expert Modeling and BMP Panels – Brosch

Chris will provide an update on the expert panels that are meeting to refine CBP model estimates of stormwater, BMPs, stream restoration, and other aspects of watershed restoration.

1:30 pm Climate Change – Bennett

The Bay Program is advancing our understanding of climate change, and the influence climate change will have on the Chesapeake TMDL will be a major feature of our 2017 Midpoint Assessment of the Chesapeake restoration. Mark will review the status of USGS climate studies including a recent assessment of sea level rise on a tidal fresh drinking supply intake.

2:00 pm Sea Level Rise Estimates – Cronin

Tom Cronin will review estimates of a range of global sea level rise of as much as 8 mm/yr by 2050, and 10 mm/yr by 2100, and compare these rates to other periods typical of periods of climatic warming. Past precipitation trends and the non-stationarity of droughts and wet periods will also be described.

2:30 pm ADJOURN

Modeling Subcommittee Members and Participants:

Attached as a pdf and embedded in this message below please find our agenda for our one-day, January 11, 2012, Modeling Quarterly Review.

Our meeting will be at the Joe Macknis Memorial Conference Room of the Chesapeake Bay Program Office located at 410 Severn Avenue in Annapolis. For directions to the Chesapeake Bay Program offices, please point your browser to:

<http://www.chesapeakebay.net/directions.aspx?menuitem=14908>

For the minutes and presentations of past meetings please point your browser to this site and click on the Subcommittee meeting dates of past months:

<http://archive.chesapeakebay.net/calendar.cfm?DefaultView=2>