



December Non-Tidal Workgroup Conference Call

December 18, 2013, 1PM – 3PM

Meeting Webpage:

<http://www.chesapeakebay.net/S=0/calendar/event/18872/>

Leadership: Scott Phillips – Chair (USGS)

Participants: Bill Romano (MDNR), Cindy Johnson (VADEQ), Claire Buchanan (ICPRB), Dan Boward (MDNR), Don Smith (VADEQ), Doug Chambers (USGS), Doug Moyer (USGS), Elgin Perry (Independent Statistics Consultant), Janine Howard (VADEQ), Joel Blomquist (USGS), John Wirts (WV), Mike Langland (USGS), Lucretia Brown (DC), Molly Pulket (PADEP), Kevin McGonigal (SRBC), Steve Gladding (NYDEC), Roger Stewart (VADEQ), Peter Tango (USGS/CBPO), Mary Ellen Ley (USGS/CBPO), Liza Hernandez (UMCES/CBPO), Mike Mallonee (ICPRB/CBPO), Nita Sylvester (EPA/CBPO), Don Weller (Smithsonian Institute), Tony Shaw (PADEP), Jeff Chanut (USGS)

MINUTES

Introductions and Announcements – Scott Phillips (USGS)

- Dan Boward was congratulated for a successful MD Water monitoring Council Meeting

Technical Presentation: Generalized Additive Model (GAM) Development to Explain Trends – Elgin Perry (Independent Statistics Consultant)

Supporting material: [E. Perry – Using GAM models for Trend Analysis](#)

E. Perry gave a presentation explaining the heuristic development of GAM, comparison of GAM and LOESS, quick review of GAM tools, and an example of how GAM can be used to explain trends. Looking at chlorophyll a (fluorescence) data to explain response to different forcing functions, translated to numbers to be used in the GAM model to examine patterns in the data.

Overview of STAR Workplan to Assess and Explain Trends

Supporting material: [STAR Midpoint Assessment Priority Workplan](#)

The Chesapeake Bay Program is looking to create a cohesive understanding of nutrient and sediment loading in the watershed to trends in estuary. Additionally, modeling can provide meaningful information about nutrient and sediment loading below USGS RIM stations where we don't have monitoring.

ACTION: Please provide initial feedback to Scott Phillips.

Update on Building Environmental Intelligence – Peter Tango (USGS)

P. Tango presented an overview of the feedback from STAC and highlights from the first Global Seminar Series panel discussion. The next second Global Seminar Series panel discussion is scheduled for January 10, 2014.

Supporting material: [Briefing Paper](#) and [PowerPoint Presentation](#) that were to be given at the October Management Board meeting. Event webpage for the [First BASIN Panel](#).

Update on the Stream Health Indicator – Claire Buchanan (ICPRB)

Claire Buchanan presented an update on the Stream Health Indicator from the first meeting of the Stream Health Indicator Workgroup (October 30th, 2013).

Supporting material: [C. Buchanan – Proposed Update of the CBP Stream Health Indicator](#)

Priorities for NTWG 2014 Workplan – Scott Phillips (USGS)

The NTWG discussed the planned WG activities for 2014. STAR has asked the workgroups to present 2014 activities during their January STAR meeting.

Supporting materials: [2013 NTWG Workplan](#) (last year's plan to be updated for 2014)

Updates to the Workplan for 2014:

- A. Enhance and maintain the CBP nontidal monitoring network
 - a. Building Environmental Intelligence (aka BASIN)
 - b. Continued implementation of the DUET process
 - c. QA/QC discussions
- B. Data Analysis Support
 - a. Supporting the Habitat GIT in efforts related to Stream Health Indicator
 - b. Explaining Trends
 - c. **ACTION:** UMCES and USGS discuss support needs for summer forecast (J. Blomquist, S. Phillips)
 - i. Preference to bring UMCES back into the folds of the partnership for this product to be supported under STAR
 - d. Flow normalized trends at RIM stations