Climate Change Workgroup Meeting

Friday November 20, 2015
10 AM – 2 PM

Conference Line: (866) 299-3188 Code: 410-267-5731
Adobe Connect: https://epawebconferencing.acms.com/ccw (enter as a guest)
Meeting Materials: http://www.chesapeakebay.net/calendar/event/23201/
CBPO Location: Joe Macknis Memorial Room (Fish Shack

AGENDA

10:00 AM **Welcome, Introductions, Announcements –** *Zoe Johnson, Climate Change Coordinator and Mark Bennett, Workgroup Chair*

10:10 AM **Review of Climate Change Resiliency Work Group Membership – Kyle Hinson, CRC**

10:25 AM **Update on Planning for STAC Climate-Related Activities – Lisa Wainger, UMCES**

- STAC Meeting (Dec. 8, 2015) – Climate Change Work Session
- STAC Workshop (Jan/Feb. 2016) - The Development of Climate Projections for Use in Chesapeake Bay Program Assessments
- STAC Review (Summer 2016) – CBP Approach to factor climate projections into the 2017 TMDL Mid-Point Assessment

10:50 AM **Climate Resiliency Biennial Work Plan Work Session – Zoe Johnson**

- Review 11/5/15 draft work plan, including collective and individual commitments
- Prioritize list of key actions and performance targets to be undertaken by Climate Resiliency Workgroup
- Identify critical gaps and missing information
- Solicit additional Signatory commitments
- Identify next steps and timelines to complete work plan

12:00 PM **Review of the North Atlantic Landscape Conservation Cooperative (NALCC) – Emily Powell, USFWS**

12:15 PM **LUNCH**

1:00 PM **Seminar Presentation: Chesapeake Bay Climate Extremes and Variability: A Recent Past, Present, and Near Future Analysis – Kari Pohl, UMCES Horn Point Laboratory**
This study is a collaboration between the CBNERRS, NOAA (NCCOS & OCM), and UMCES with the goal of investigating how climate changes and variability have and will affect

ecosystem resiliency and the coastal communities of Chesapeake Bay. This work features two aspects: understanding the historical and future patterns of extreme climate and variability in the near-shore Chesapeake region and using that climate analysis to provide insight on targeted ecological problems. We have assessed and identified historical trends for 26 climate indices in Chesapeake Bay over the last century and used an ensemble of GCMs to project these patterns to the year 2100 under the RCP4.5 and RCP8.5 emission scenarios. These climate indices determine the duration, intensity, and frequency of precipitation- and temperature-based extreme climate events. Together with our partners, we have targeted four ecological "vignettes" to understand the stressors that climate variability place upon shallow water ecosystems: 1) frequency of warm summer days and nights with SAV diebacks, 2) Annual precipitation frequency with total nitrogen load, 3) warm autumns and cold snaps with brown pelican deaths, and 4) extension of the growing season with *Vibrio vulnifericus* probability. By focusing on observed climate events that resonate in the public memory, we seek to develop educational materials and exhibits which support and encourage coastal communities, decision-makers, and the general public to contemplate and create adaptation plans and mitigation strategies that will enhance their resilience to future climate and ecosystem changes and events.

Presenter Bio: Kari Pohl is a chemical oceanographer who received her Ph.D. from the University of Rhode Island, Graduate School of Oceanography in 2014 where she studied black carbon and persistent organic pollutants. Prior to that, she worked on many projects involving oyster restoration, scallop diets, and historical hypoxia occurrences in Narragansett Bay.

1:30 PM **Work Session on Select Key Action and Performance Targets– Zoe Johnson**

- From prioritized list of key actions and performance targets select 1-2 (e.g., Monitoring Needs, Climate Data Portal, Research Agenda, Synthesis of Current Adaptation Efforts and Lessons-Learned, Review of DOI metrics), to discuss needs and timeline for implementation.

2:00 pm **Adjourn**