



**Joint Meeting of the
Urban Stormwater Workgroup,
Modeling Workgroup, and
Climate Resiliency Workgroup**
December 9, 2020
WebEx

Join by Webinar
Meeting

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Meeting Number: 120 060 2999

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Conference Line: +1-408-418-9388

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Event webpage:

https://www.chesapeakebay.net/what/event/joint_modeling_wg_crwg_uswg_december_2020_meeting

This meeting will be recorded for internal use to assure the accuracy of meeting notes.

11:00 Announcements and Amendments to the Agenda – Norm Goulet, (USWG Chair), Northern Virginia Regional Commission

11:05 Overall Status and Direction of the Work – Norm Goulet, (USWG Chair), Northern Virginia Regional Commission and Lew Linker EPA-CBPO

Moving toward an end objective of county-level implementation of stormwater and environmental management (as well as public safety and property protection) for all counties in the Chesapeake watershed using updated and future projected IDF's.

11:15 Climate Change Planning for NYC Stormwater Management – Alan Cohn, New York City Department of Environmental Protection

A presentation on how NYC has developed precipitation projections of 1 hour, 24 hour, and other durations for years of “up to 2039” and other future periods which contribute to its *Climate Resiliency Design Guidelines* that provide step-by-step instructions to go beyond building code and standards. The updated and future projected precipitation projections are informed with historic climate data and by specific forward-looking climate data. A five minute discussion period follows the presentation.

11:40 IDF Curve Development for the Chesapeake Watershed – Arthur DeGaetano, Cornell U.

Art will present progress on IDF development for current and future time periods at the county scale for all Chesapeake watershed counties. A ten minute discussion period follows the presentation.

Previous June 2020 presentation here:

https://www.chesapeakebay.net/channel_files/40321/urbanstormwaterworkgroup_16june_2020.pdf

12:30 IDF Curve Development and Application in the Chesapeake Stormwater Community – David Wood, Chesapeake Stormwater Network (CSN)

David will provide an update of CSN's activities in organizing the Chesapeake stormwater community in the application of IDFs updated to presents and future conditions in order to maintain resiliency of stormwater and restoration practices under climate change. A ten minute discussion period follows the presentation. Previous June 2020 presentation here:

https://www.chesapeakebay.net/channel_files/40321/csn_climate_resilience_update_june_2020.pdf

1:00 Moderated Discussion – From Research to Implementation

A moderated discussion will cover the following questions:

- Are there any unaddressed questions in the previous presentations that should be addressed?
- How do we create a final product that is packaged to make it easiest on the CBP state agency partners to translate the data into new stormwater manuals?
- Alternately, are there other approaches being considered to address increasing precipitation?
- Where are the CBP State partner's thoughts on the uncertainty of the projections? How would PIs present uncertainty and how would the CBP State partners weigh that information when making updates to their regulations and manuals? What is the role of precipitation projections based on observations relative to climate change models for near term (2025, 2035, etc.) projections?
- Can state partners provide specific feedback about what they feel most comfortable with in terms of integrating climate projections into stormwater regs. so it can be considered by RAND and Cornell U. as they develop their end products.

1:40 Break

2:10 Climate Impacts to Restoration Practices & BMPs – Jon Butcher, Tetra Tech

Development of a statistical approach to update NOAA Atlas 14 IDF curves based on change in climate models and the application of the approach to assess future BMP performance, flood risk, and channel instability will be presented. A five minute discussion period follows the presentation.

2:40 National Work on Forward Looking IDF Curve Development – Tanya Spero, Anna Jalowska, and Jason Bernagros, EPA ORD

Ongoing work by EPA's Office of Research and Development (ORD) will be presented including intensity, duration, frequency (IDF) curve and extreme weather research projects applicable to urban stormwater management. Applications include updates to the National Stormwater Calculator as well as climate data for EPA's Stormwater Management Model (SWMM). A five minute discussion period follows the presentation.

3:10 Changing Precipitation Patterns on the Eastern Shore – Kaye L. Brubaker, University of Maryland

An ensemble of climate change models were used to generate both current and future IDFs, calculate a change ratio, apply that ratio to NOAA's IDF on the Eastern Shore. A five minute discussion period follows the presentation.

3:30 Moderated Discussion – Next Steps Toward Implementation

A moderated discussion will cover the following questions:

- What are the best next steps for Bay Program partners to get the research into updated design manuals and other standard means of implementation?
- For CBP state agency partners, what would be needed in order to begin the process of updating stormwater manuals and what are realistic timetables for this?
- How can CBP assist major stormwater implementation agencies such as State highway administrations and DOTs.
- Should a smaller ad-hoc group be formed to continue these discussions with a more fast-paced and focused venue for developing a unified workplan and reporting back to the USWG, CRWG, and Mod WG on recommended approaches to the problem?

4:15 Adjourn