

# Climate & Weather Information for Water Utilities & Stormwater Managers New England

## Session 1: Extreme Precipitation (July 14 1-3pm)

### 12:30pm Tech Check

Please join early to make sure you can connect properly.

### 1:00pm Intro

- NOAA- Kickoff
- EPA

### 1:15pm Climate Info

Overview of historical & future extreme precipitation trends

### 1:25pm Planning for Bad Weather: A Utility's Perspective - Portland Water District

- Paul Thomas Hunt, the Environmental Manager for the Portland Water District, responsible for environmental compliance, source protection, industrial pretreatment, education & outreach, and security & preparedness.
- Portland Water District is a quasi-municipal organization made up of 11 departments that provides water and wastewater services to 200,000 Greater Portland customers. Historically, storm preparation was uneven and department-specific if it existed at all and storm response reactive. We fixed the things that broke and returned them to service as soon as we could. A significant Patriots Day storm about a decade ago revealed some weaknesses in this approach and led us to establish a proactive, integrated process of preparation for, operations during, and recovery from significant storm events.

### 1:45pm Demo: NOAA Atlas 14 - Precipitation Frequency Atlas

Participants receive a brief demonstration and explanation of tool.

- Updated estimates with relevant supplementary information are published in NOAA Atlas 14 "Precipitation-Frequency Atlas of the United States." Precipitation **D**epth (or Intensity) for a specific **D**uration that has a certain **F**requency of occurring.

### 2:00pm Demo: Precip.net Extreme Precipitation in New England

Participants receive a brief demonstration and explanation of tools.

- A precursor to NOAA Atlas 14 for the Northeast and a Living Extreme Precipitation Climatology. The site includes estimates of extreme rainfall for various durations (from 5 minutes to 10 days) and recurrence intervals (1 year to 500 years).

### 2:15pm Hands-on Breakouts of NOAA Atlas 14 - Precipitation Frequency Atlas (20 min)

The hands-on portion will be used to elicit feedback to improve these tools or to address a need for new tools.

### 2:35pm Hands-on Breakouts of Precip.net Extreme Precipitation in New England (20 min)

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