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Service Change Notice 21-77
National Weather Service Headquarters Silver Spring MD
300 PM EDT Mon Aug 23 2021

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From: David Novak
 Director, Weather Prediction Center

Subject: Implementation of the National Weather Service (NWS) Enhanced Extreme Precipitation Monitor (EPM) on or about September 22, 2021

Beginning on or about September 22, 2021, the NWS will be issuing the Enhanced Extreme Precipitation Monitor (EPM).

The NWS National Centers for Environmental Prediction (NCEP) Weather Prediction Center (WPC) has been issuing this product operationally since 2018 to highlight the rarity of the WPC deterministic precipitation forecast (6-hour and 24-hour rainfall amounts):

https://www.wpc.ncep.noaa.gov/qpf/epm/extreme_precip_monitor.php

Three new display features have been added to the enhanced version:

- 1) Rarity of the WPC deterministic precipitation forecast for 72-hour rainfall amounts.
- 2) Rarity of the WPC probabilistic 90th percentile precipitation forecast (6-hour, 24-hour, 72-hour rainfall amounts).
- 3) WPC deterministic 1-inch rainfall contour to direct focus to areas of higher precipitation amounts.

The climatological significance is represented by Annual Recurrence Intervals (ARIs) and Annual Exceedance Probabilities of precipitation estimates from the NOAA Atlas-14 and Atlas-2.

Additional information regarding the EPM may be found in the Product Description Document (PDD) at the link:

https://nws.weather.gov/products/PDD/Extreme_Precipitation_Monitor_PDD_Online.pdf

Comments may be submitted via the survey link below:

<https://www.surveymonkey.com/r/EnhancedExtremePrecipitationMonitor>

For additional comments or questions, please contact:

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