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Service Change Notice 26-70
National Weather Service Headquarters Silver Spring MD
155 PM EDT Tue Jul 28 2026

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From: David Michaud
 Director, NWS Central Operations

Subject: Upgrade of the National Blend of Models (NBM) to version 5.0.14 to address NBM anomalous temperature and dewpoint guidance values, especially during seasonal transition seasons and notably in coastal areas and the shores along the Great Lakes: Effective July 28, 2026

Effective on Tuesday, July 28, 2026, beginning with the 1200 Coordinated Universal Time (UTC) run, the National Weather Service Central Operations will implement a small upgrade package for the National Blend of Models (NBM) to address anomalous temperature and dewpoint guidance.

The NBM v5.0.14 updates will improve the temperature (including maximum and minimum temperature) and dew point Quantile Mapping (QM) suite by integrating the current forecast into the training sample and introducing recency weighting for Cumulative Distribution Function (CDF) training, which applies less weight to older days in the sample. Additionally, the update extends the range in which quantile mapping is performed from 10th-90th to 2nd-98th percentiles and replaces the alternate linear regression in the distribution tails with a simple mean bias adjustment. Finally, the update completely removes the usage of the Australian Community Climate and Earth-System Simulator (ACCESS) model inputs from the QM temperature and dewpoint products.

Full details on NBM v5.0 are available in the original notice at:
https://www.weather.gov/media/notification/pdf_2026/scn26-24_Updated_NBM_V5.0_aac.pdf

Please submit comments, questions, or requests pertaining to this upgrade to:

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National Service Change Notices are online at:

<https://www.weather.gov/notification/>

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