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PNSWSH

Service Change Notice 25-53  
National Weather Service Headquarters Silver Spring MD  
330 PM EDT Tue Jul 15 2025

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FROM: David Michaud  
Director, NCEP Central Operations (NCO)

SUBJECT: Notification of Upgrade to the Model Analyses and Guidance  
(MAG) Website to version 6.0.4 Effective August 20, 2025

The Model Analyses and Guidance (MAG) website  
(<https://mag.ncep.noaa.gov>) will be upgraded to version 6.0.4, on or  
about August 20, starting with the 1200 UTC cycle. In the case of  
Critical Weather Day or Enhanced Caution Event declaration, the upgrade  
will take place on the next working day that does not have significant  
weather. The upgrade includes the following:

-Addition of the following new products for National Blend of Models  
(NBM):

North America and CONUS domains:

precip\_p01, 1hour\_precip\_chance, 6hour\_precip\_chance,  
12hour\_precip\_chance, precip\_duration, prob\_rain, prob\_snow, prob\_sleet,  
prob\_freezing\_rain, snow\_liquid\_ratio, 1hour\_accu\_snow,  
6hour\_accu\_snow, total\_accu\_snow, 10th\_percentile\_1hr\_snow,  
50th\_percentile\_1hr\_snow, 90th\_percentile\_1hr\_snow,  
prob\_1h\_snow\_0.1in, prob\_1h\_snow\_0.3in, prob\_1h\_snow\_0.5in,  
prob\_1h\_snow\_0.7in, prob\_1h\_snow\_1in, prob\_1h\_snow\_1.5in,  
prob\_1h\_snow\_2in, prob\_1h\_snow\_3in, prob\_1h\_snow\_4in,  
tstm\_coverage, visibility, ceiling, cape, echo\_top, prob\_tstm,  
prob\_vis\_5mi, prob\_vis\_3mi, prob\_vis\_2mi, prob\_vis\_1mi,  
prob\_ceil\_1000ft, prob\_ceil\_2000ft, prob\_ceil\_3000ft,  
prob\_ceil\_6500ft

Alaska domain:

precip\_p01, 1hour\_precip\_chance, 6hour\_precip\_chance,  
12hour\_precip\_chance, prob\_rain, prob\_snow, prob\_sleet,  
prob\_freezing\_rain, snow\_liquid\_ratio, 1hour\_accu\_snow,  
6hour\_accu\_snow, total\_accu\_snow, 10th\_percentile\_1hr\_snow,  
50th\_percentile\_1hr\_snow, 90th\_percentile\_1hr\_snow,  
prob\_1h\_snow\_0.1in, prob\_1h\_snow\_0.3in, prob\_1h\_snow\_0.5in,  
prob\_1h\_snow\_0.7in, prob\_1h\_snow\_1in, prob\_1h\_snow\_1.5in,  
prob\_1h\_snow\_2in, prob\_1h\_snow\_3in, prob\_1h\_snow\_4in,  
tstm\_coverage, visibility, ceiling, cape, echo\_top, prob\_tstm

Hawaii and Puerto Rico domains:

precip\_p01, 1hour\_precip\_chance, 6hour\_precip\_chance,  
12hour\_precip\_chance, tstm\_coverage, visibility, ceiling, cape,  
echo\_top, prob\_tstm

-Addition of the following new product for Guam domain for Real  
Time Mesoscale Analysis (RTMA) model: ceiling

-Improved Real Time Mesoscale Analysis (RTMA) and National Blend  
of Models (NBM) model output image quality and color palette.

-Fixed display of extra domain for North American Mesoscale  
Model (NAM) Fire Weather High Resolution Nested Runs (Firewx)  
model.

-Fixed data flickering for accu\_max\_updraft\_hlcy for North American  
Mesoscale Model 3km (nam-hires), High Resolution Window/Advanced Research  
Weather Research and Forecast Model- Member (hrw-arw) and High Resolution  
Window/Advanced Research Weather Research and Forecast Model- Member 2  
(hrw-arw2)

-Truncated High Resolution Window/Non-Hydrostatic, hybrid, vert  
coordinate Mesoscale Model (hrw-fv3) accu\_max\_updraft\_hlcy product  
forecast hours to 48 to ensure accurate output.

-Fixed occasional filling of one probability value in the entire domain  
for probability of storm-tracks maps.

MAG suite will be hosted on <https://mageval.ncep.noaa.gov> for a period of  
30 days before going live.

For technical questions regarding this notification, please  
contact:

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National Service Change Notices are online at:

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

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