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PNSWSH

Service Change Notice 25-46  
National Weather Service Headquarters Silver Spring MD  
145 PM EDT Mon Jun 23 2025

To:           Subscribers:  
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From:       George Jungbluth  
              Director, Office of Dissemination

Subject: Upgrade of Multi-Radar Multi-Sensor (MRMS) to version  
12.3: Effective on July 22, 2025

Effective on or about July 22, 2025, the National Centers for  
Environmental Prediction (NCEP) Central Operations (NCO) will upgrade the  
Multi-Radar, Multi-Sensor (MRMS) Integrated Dissemination Program (IDP)  
application to Version 12.3.0 (v12.3).

The technical enhancements with v12.3 include the following:

- 1) Support for NWS radar Volume Coverage Pattern (VCP) 34  
- This change enables MRMS to ingest and fully process data from  
WSR-88Ds (Weather Surveillance Radar-1988 Doppler) running in VCP 34.
- 2) Upgrade the ProbSevere (PS) Portion of MRMS ProbSevere  
- PSv3 outputs are more statistically reliable than PSv2 outputs and  
exhibit better probability of detection of severe storms and decreased  
false alarms. This upgrade also re-enables the inclusion of GOES-East  
ABI (Advanced Baseline Imager) data in the ProbSevere output generation  
process.
- 3) Multi-PRF Dealiasing Algorithm (MPDA) Support  
- MRMS Rotation Tracks products will benefit from improved radial  
velocity data processing when MPDA is turned on for a WSR-88D operating  
in either VCP 212 or 215.
- 4) Lightning Scale Parameter Changes  
- An internal parameter used to generate MRMS lightning probabilities is  
being modified in this release to reduce the computational footprint  
required for these products. This change will improve the timeliness of  
MRMS lightning products.
- 5) Quantitative Precipitation Estimate (QPE) Improvements:  
- MRMS QPEs will benefit from better melting layer delineation. The Radar  
Quality Index will also be modified to improve the performance of Multi-  
Sensor QPE products in the warm season.
- 6) Improvements to MRMS Quality Control (QC)

- MRMS QC routines will be updated to improve handling of excessive ground clutter and beam blockage at certain radar sites. New wind farm location tables will also be implemented in this release.

For details about format changes to ProbSevere v3 outputs (item 2 above), please see the following URL:

[https://www.weather.gov/idp/MRMS\\_v12.3\\_Supplemental](https://www.weather.gov/idp/MRMS_v12.3_Supplemental)

For a real-time feed of data that includes all the changes listed in this notice, please see the following URL:

<https://mrms-ga.ncep.noaa.gov>

To report problems or operational issues with MRMS, please contact:

NCEP Central Operations Tech Control [nco.ops@noaa.gov](mailto:nco.ops@noaa.gov)

For questions related to the updates, please contact:

[corey.pieper@noaa.gov](mailto:corey.pieper@noaa.gov)

Please send all other comments and questions to:

[nws.webfeedback@noaa.gov](mailto:nws.webfeedback@noaa.gov)

National Public Information Statements are online at:

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

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