

NOUS41 KWBC 251255  
PNSWSH

Service Change Notice 21-53  
National Weather Service Headquarters Silver Spring MD  
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To:           Subscribers:  
              -NOAA Weather Wire Service  
              -Emergency Managers Weather Information Network  
              -NOAAPort  
              Other NWS Partners, Users and Employees

From:        Ben Kyger  
              Director, NCEP Central Operations

Subject: Discontinuing Legacy ProbSevere Product from IDP  
          Multi-Radar, Multi-Sensor Application: Effective  
          August 10, 2021

Effective on or about August 10, 2021, the National Centers for Environmental Prediction (NCEP) Central Operations (NCO) will discontinue the ProbSevere version 1 American Standard Code for Information Interchange (ASCII) product from the Multi-Radar, Multi-Sensor (MRMS) Integrated Dissemination Program (IDP). The ProbSevere version 2 JavaScript Object Notation (JSON) product will continue to be available from IDP MRMS and not be impacted by this change.

The IDP MRMS output can be found:

1. On the NCEP Web Services:

<http://mrms.ncep.noaa.gov/data/>

2. On the NCEP Local Data Manager (LDM) by requesting access:

[https://www.nssl.noaa.gov/projects/mrms/MRMS\\_data.php](https://www.nssl.noaa.gov/projects/mrms/MRMS_data.php)

3. On Satellite Broadcast Network (SBN)/NOAAPort

ProbSevere is an operational short-term forecasting subsystem within the MRMS providing storm-based probabilistic guidance to severe convective hazards.

ProbSevere was implemented into NWS operations as part of the MRMS v12.0 upgrade in October 2020. The initial implementation contained both a legacy ProbSevere v1 ASCII product and an enhanced ProbSevere v2 JSON product. Both products provide probabilities of any type of severe weather. The ProbSevere v2 JSON product also contains probabilistic guidance for specific hazards. The ProbSevere v1 ASCII product is redundant. At this time, all users need to transition to the JSON formatted ProbSevere product:

MRMS\_CONVECTPROB\_[timestamp].ascii:

ProbSevere v1 product in ASCII format containing the probability of any type of severe weather. To be discontinued:

MRMS\_PROBSEVERE\_[timestamp].json:

ProbSevere v2 product in JSON format containing the probability of severe hail, probability of severe wind, probability of tornado, and probability of any type of severe weather. Available via SBN (World Meteorological Organization (WMO) code YAUF01), NCEP Local Data Manager (LDM), and web services. Not impacted by this change.

Additional information about ProbSevere can be found at:

[https://cimss.ssec.wisc.edu/severe\\_conv/probsev.html](https://cimss.ssec.wisc.edu/severe_conv/probsev.html)

NCEP encourages users to ensure their decoders are flexible and are able to adequately handle changes in content order, changes in the scaling factor component within the product definition section (PDS) of the GRIdded Binary (GRIB) files, and any volume changes which may be forthcoming. These elements may change with future NCEP application upgrades. NCEP will make every attempt to alert users to these changes prior to any implementations.

NCEP will evaluate all comments to determine whether to proceed with this change. For questions regarding these application changes, please contact:

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National Service Change Notices are online at:

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

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