

NOUS41 KWBC 191905 AAA
PNSWSH

Service Change Notice 25-32 Updated
National Weather Service Headquarters Silver Spring MD
305 PM EDT May 19 2025

To: Subscribers
 -NOAA Weather Wire Service
 -Emergency Managers Weather Information Network
 -NOAAPORT
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From: Patrick T. Marsh
 Chief, Science and Support
 NWS/Storm Prediction Center

Subject: Updated: Upgrade to SPC post processing for NCEP models,
Effective May 27, 2025

Updated to reflect the new implementation date of May 27, 2025 due to
Critical Weather Day.

On or about May 27, 2025, beginning with the 1200 Universal Coordinated
Time (UTC) model run, the National Centers for Environmental Prediction
(NCEP) will upgrade SPC_POST, SPC's postprocessing package for the NCEP
model suite, to v2.1.

In the event that the implementation date is declared a Critical Weather
Day (CWD), an Enhanced Caution Event (ECE), or other significant weather
is occurring or is anticipated to occur, implementation of this change
will take place at 1200 UTC on the next weekday not declared a CWD and
when no significant weather is occurring.

Changes with this upgrade include:

The output of GEFS-MLP was changed to be more consistent with the other
calibrated guidance in SPC_POST. Previously, the data in the GEFS-MLP
files were given as a fractional probability between 0 and 1. However,
with this update, the output is changed to be a percentage between 0 and
100.

In order to facilitate dry thunderstorm forecasting, SPC_POST v2.1 adds
calibrated lightning density guidance from the HREF. This guidance uses
machine learning and outputs the probability of 25, 50, 100, and 200
cloud-to-ground lightning flashes over a 4-hour period. The naming
convention for these files is

ltgdensity/spc_post.tCCz.hrefld_4hr.ffff.grib2

where CC is the HREF cycle (00 or 12) and FFF is the 3-digit forecast
hour. These files will be available at:

https://nomads.ncep.noaa.gov/pub/data/nccf/com/spc_post/prod/
https://ftpprd.ncep.noaa.gov/data/nccf/com/spc_post/prod/

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NCEP urges all users to ensure their decoders can handle changes in content order and volume changes. These elements may change with future NCEP model implementations. NCEP will make every attempt to alert users to these changes before implementation. As part of NCEP's standard 30-day parallel testing, the new output products will be available here:

https://nomads.ncep.noaa.gov/pub/data/nccf/com/spc_post/para/
https://ftpprd.ncep.noaa.gov/data/nccf/com/spc_post/para/
ftp://ftpprd.ncep.noaa.gov/data/nccf/com/spc_post/para/

For questions regarding this change, please contact:

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For questions regarding the data flow, please contact:

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National Service Change Notices are online at:

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

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