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Public Information Statement 20-71
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           Meteorological Development Laboratory

Subject: Known bugs introduced into National Blend of Models
           (NBM) v4.0 implementation on September 29, 2020

Upon implementation of the NBM v4.0 on Tuesday, September 29,
2020, several issues are present:

Thunder grids are not being included in the NBM Predominant
Weather grid. This error was introduced due to a change in how
12-hour thunder is computed in v4.0, but not carried into the
computation of the Weather Grid. This does not impact the 1-,
3-, 6-, and 12-hour probability of thunderstorm grids.

The order of processing of snow level grids introduced an issue
with 9,999 foot snow levels. They are treated as missing 9999
values, so are essentially undefined.

We do not currently have quality control to prevent wind speeds,
QPF and PoP forecasts from being negative. Although unlikely, it
is possible for values to be negative until we apply the patch.

The Meteorological Development Laboratory (MDL) has a fix for
these issues and we will make every effort to correct these
problems at the earliest opportunity. Due to an upcoming
implementations moratorium on the National Centers for
Environmental Prediction's (NCEP's) Weather and Climate
Operational Supercomputing System (WCOSS), we do not yet have a
set date when this fix can be applied to the NBM operational job
stream.

Please send comments or questions concerning these issues to:

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