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Public Information Statement PNS20-71 Updated  
National Weather Service Headquarters, Silver Spring MD  
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From:         Jeffrey Craven  
              NWS Office of Science and Technology Integration  
              Meteorological Development Laboratory

Subject:      Updated: Known bugs introduced into National Blend  
              of Models (NBM) v4.0 implementation Tuesday,  
              November 3, 2020

Updated to notify users that software fixes were put into place to correct known bugs in NBM v4.0 described below. NWS implemented these corrections on Tuesday, November 3, 2020, with the 1200 UTC model cycle time.

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

Thunder grids were not being included in the NBM Predominant Weather grid. This error occurred due to a change in how v4.0 computes 12-hour thunder, but not carried into the computation of the Weather Grid. This problem did not impact the 1-, 3-, 6-, and 12-hour probability of thunderstorm grids.

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

We previously did not have quality control to prevent wind speeds, Quantitative Precipitation Forecast (QPF), and Probability of Precipitation (PoP) forecasts from being negative. Although unlikely, it was possible for values to be negative.

Please send comments or questions concerning these issues to:

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