Storm Prediction Center



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Concerning...Tornado Watch 309...

Valid 242230Z - 242330Z

The severe weather threat for Tornado Watch 309 continues.

SUMMARY...A few tornadoes may develop along an enhanced corridor near a warm front across far northern Kansas and southern Nebraska. A strong tornado will also be possible. Severe weather, including tornadoes remain possible over the rest of the watch area.

DISCUSSION...22z objective analysis showed a well defined baroclinic zone stretching from Jefferson County Nebraska to Brown County



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> kansas. Along this boundary, strong instability has developed with surface dewpoints in the 70s F. Surface pressure falls have backed low-level winds, supporting local strengthening of an already impressive low-level shear profile. With 200-300 m2/s2 0-1 km SRH observed via the 22z Topeka sounding, storms interacting with this zone of enhanced vertical vorticity will likely be capable of producing a few tornadoes as they track east over the next 1 to 3 hours. A strong tornado may also be possible given the favorable parameter space with an observed effective-layer STP of 4.

To the south and west, increasing convergence along the stationary front may also support rapid severe storm development in the next couple of hours. Low-level shear remains strong in this region as well suggesting all severe hazards are possible. Recent mesoanalysis shows moderate surface pressure rises to the west suggesting a southeastward surge of the front may develop in the next couple of hours. Should this occur, increased convergence resulting in upscale growth of any initial discrete convection will likely occur. A greater damaging wind threat may evolve over this region later this evening.

..Lyons.. 06/24/2021

... Please see www.spc.noaa.gov for graphic product...

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NOAA / National Weather Service National Centers for Environmental Prediction Storm Prediction Center 120 David L. Boren Blvd. Norman, OK 73072 U.S.A. spc.feedback@noaa.gov Page last modified: June 24, 2021

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