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Mesoscale Discussion 749

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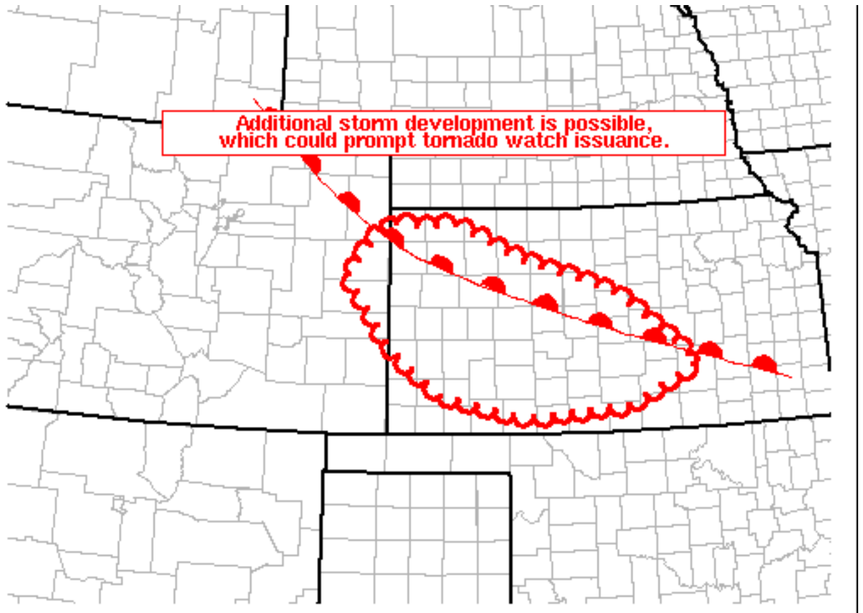

SPC MCD #0749

Mesoscale Discussion 0749
NWS Storm Prediction Center Norman OK
0147 PM CDT Wed May 26 2021

Areas affected...portions of western and central Kansas

Concerning...Severe potential...Watch possible

Valid 261847Z - 262015Z

Probability of Watch Issuance...60 percent

SUMMARY...Current convective trends suggest that additional storm development may occur across portions of western and central Kansas in the short term, that could prompt the need for Tornado Watch issuance.

DISCUSSION...CAM guidance remains suggestive that appreciable storm development across Kansas remains several hours in the future, late this afternoon. However, the most recent updraft development over Ellis and Trego counties appears robust, and is occurring in close proximity to the surface warm front -- likely where some outflow reinforcement of the front has occurred as a result of earlier storms farther to the northwest. Meanwhile, the cu field along and south of this boundary -- i.e. across western and central Kansas -- continues to gradually increase, suggestive of sustained mixing, and possible/additional storm development more quickly than models would suggest.

Should storm development near/south of the warm front increase beyond just the Trego/Ellis county convection, the moist/substantially destabilizing environment (3000 to 3500 J/kg mixed-layer CAPE now indicated) could result in a rapid ramp-up in severe potential. In addition, with recent VWP data from the KDDC WSR-88D indicative of low-level southeasterly/veering flow in the 0-2km layer quite a bit stronger than RUC forecasts, potential for strong updraft rotation -- and associated tornado potential -- may warrant tornado watch issuance earlier than previously anticipated.

..Goss/Hart.. 05/26/2021

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

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