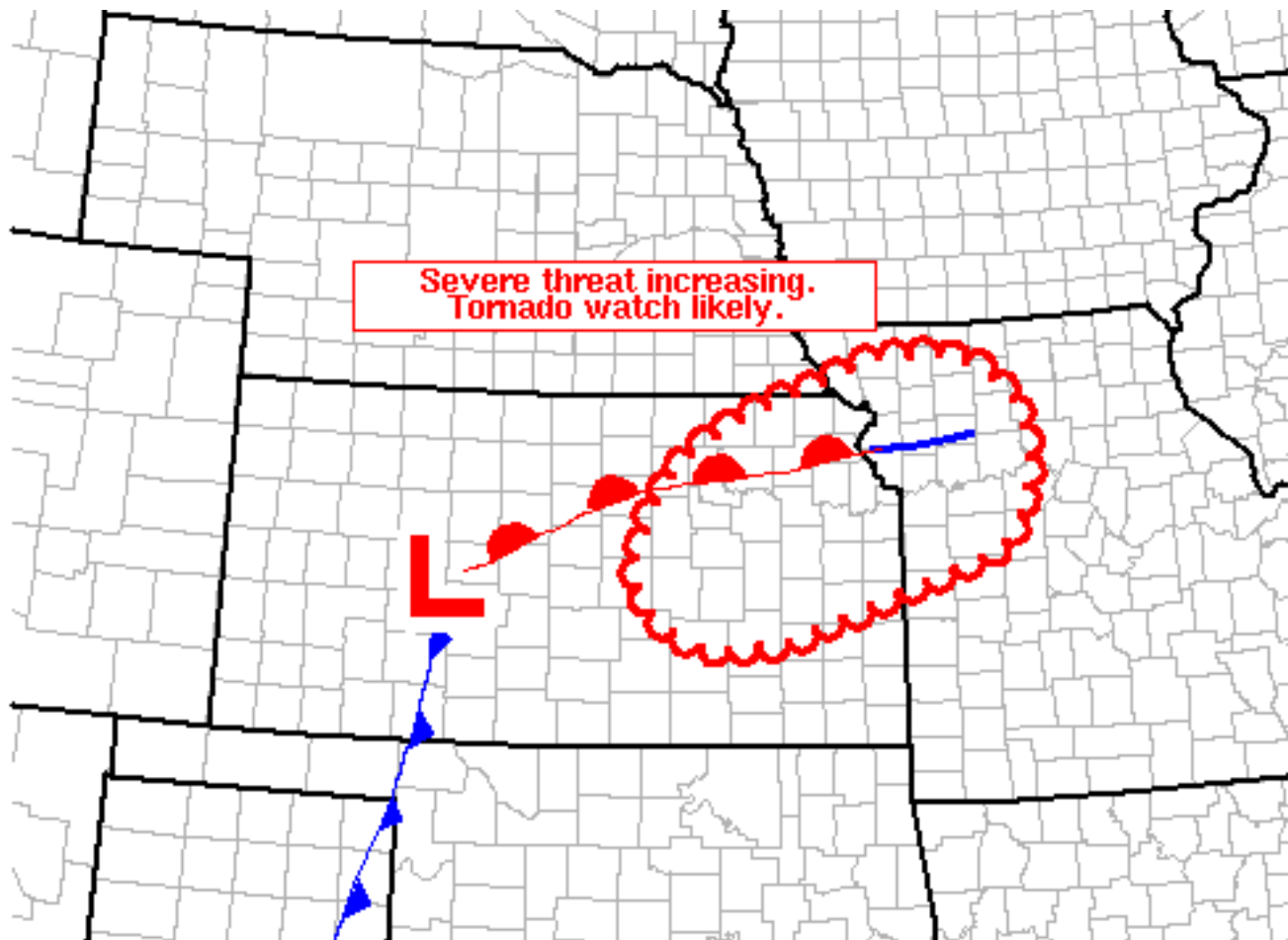


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Mesoscale Discussion 853

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SPC MCD #0853

Mesoscale Discussion 0853

NWS Storm Prediction Center Norman OK

1204 PM CDT Tue May 28 2019

Areas affected...portions of eastern KS into northwest MO

Concerning...Severe potential...Tornado Watch likely

Valid 281704Z - 281830Z

Probability of Watch Issuance...80 percent

SUMMARY...Severe threat rapidly increasing early this afternoon. A tornado watch will likely be needed in the next hour.

DISCUSSION...A cluster of storms over northeast KS persists early this afternoon. These storms are tracking northeast and are likely still elevated as MLCIN is still in place per 16z mesoanalysis. Nevertheless, severe hail was reported in the last 30 minutes in Marion County, KS given a supportive environment above the EML where lapse rates greater than 7.5 C/km were sampled in 12z regional RAOBs



and given effective shear greater than 45 kt across the region.

Forecast soundings suggest midlevel capping should erode by 18z and additional convection is expected to develop in the vicinity of the warm front and across the warm sector over parts of northeast KS. Meanwhile, cluster of ongoing storms may outpace any northward advancement of the warm front and become elevated over southeast NE into far northeast KS and northwest MO, posing mainly a large hail threat. If any of the cells with the current cluster become surface based and latch on to the warm front, the cells will pose a tornado threat due to enhancement of low level shear by the warm front. Additional development behind and to the south of this cluster may initially be semi-discrete supercells posing a threat for tornadoes, large hail and damaging wind. Given only modest low level directional shear, and deep layer southwesterly flow through much of the column, some upscale growth potential will exist with clusters or bowing segments possible. A watch will likely be needed in the next hour or so.

..Leitman/Thompson.. 05/28/2019

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

ATTN...WFO...EAX...OAX...TOP...ICT...

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	39039738	39479702	39829634	40319481	40329400	40139356
	39819327	39369314	38969327	38649353	38379438	

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