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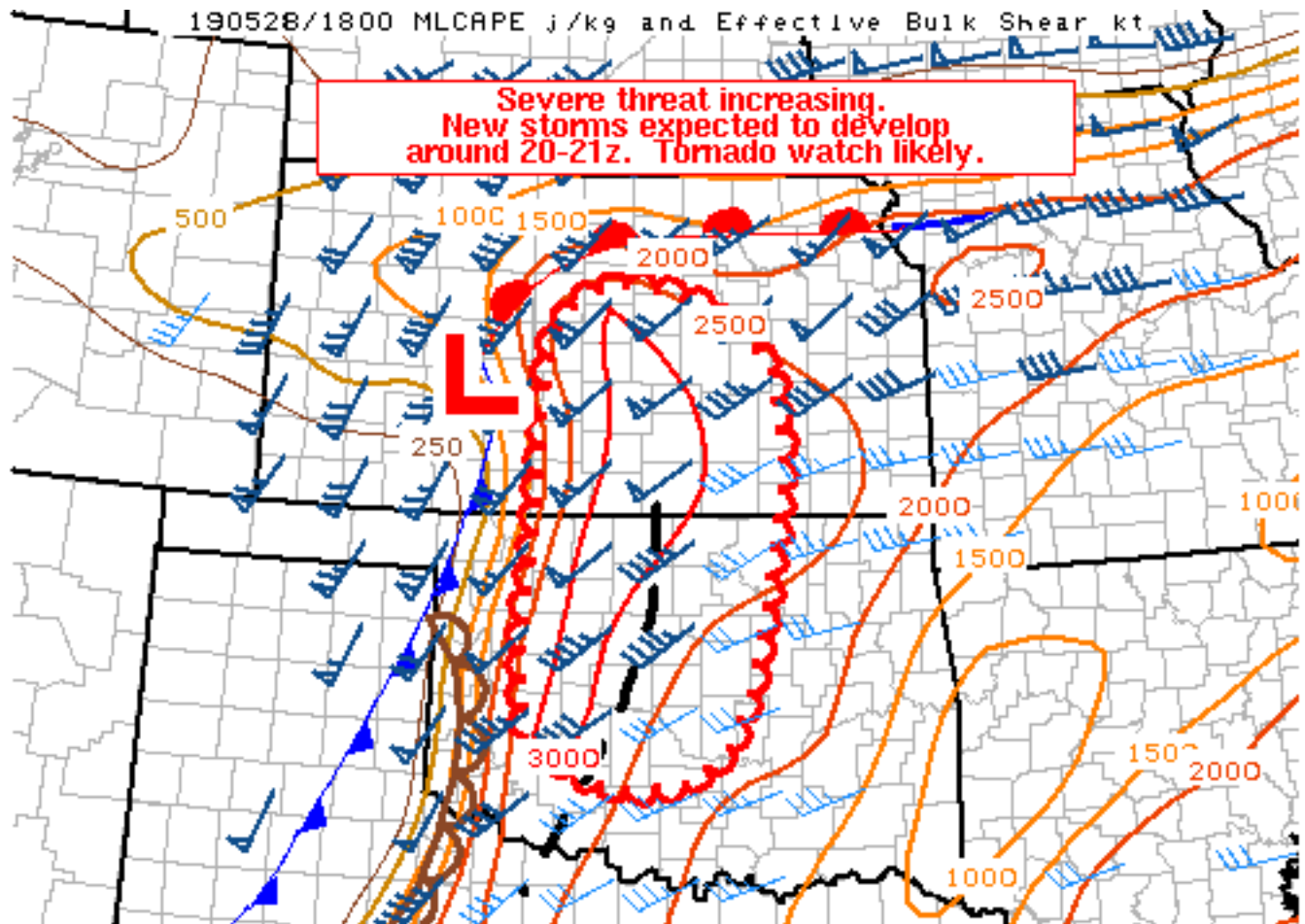
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SPC MCD #0854

Mesoscale Discussion 0854

NWS Storm Prediction Center Norman OK

0202 PM CDT Tue May 28 2019

Areas affected...portions of central KS into central OK

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

Valid 281902Z - 282030Z

Probability of Watch Issuance...95 percent

SUMMARY...Thunderstorms are expected to develop from central KS into central OK within the next couple of hours. Supercells capable of producing very large hail, damaging wind gusts and a few tornadoes will be possible through this evening.

DISCUSSION...Evidence of a nearly-eroded cap has been evident in visible satellite recently. A brief attempt and CI was noted just south of Wichita KS and a deeper, more crisply defined CU field has developed across the region. Water vapor imagery and increasing



upper level clouds across the TX Panhandle suggest ascent is increasing as the southern Rockies shortwave trough slowly shifts east/northeast. Low level confluence along a prefrontal trough is evident in surface analysis from southwest OK toward north-central OK. This is one region where convection may initiate in the next couple of hours. Additional development is expected further north in the vicinity of the triple point across central KS. Additional storms may develop along the I-35 corridor in a band of warm/moist advection and enhanced southerly flow around 850mb. This activity, should it develop, should quickly shift northeast toward the TOP CWA and into [WW 275](#).

Effective shear will favor discrete supercells. 0-3 km shear is modest with currently small curved hodographs indicated in regional VVPs, but as stronger forcing overspreads the area and the frontal boundary shifts eastward, low level shear should improve some. Regardless, environment is more than capable of supporting a tornado threat, in addition to very large hail (midlevel lapse rates greater than 8 C/km) and damaging wind gusts. A tornado watch will be needed by 20z.

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

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

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