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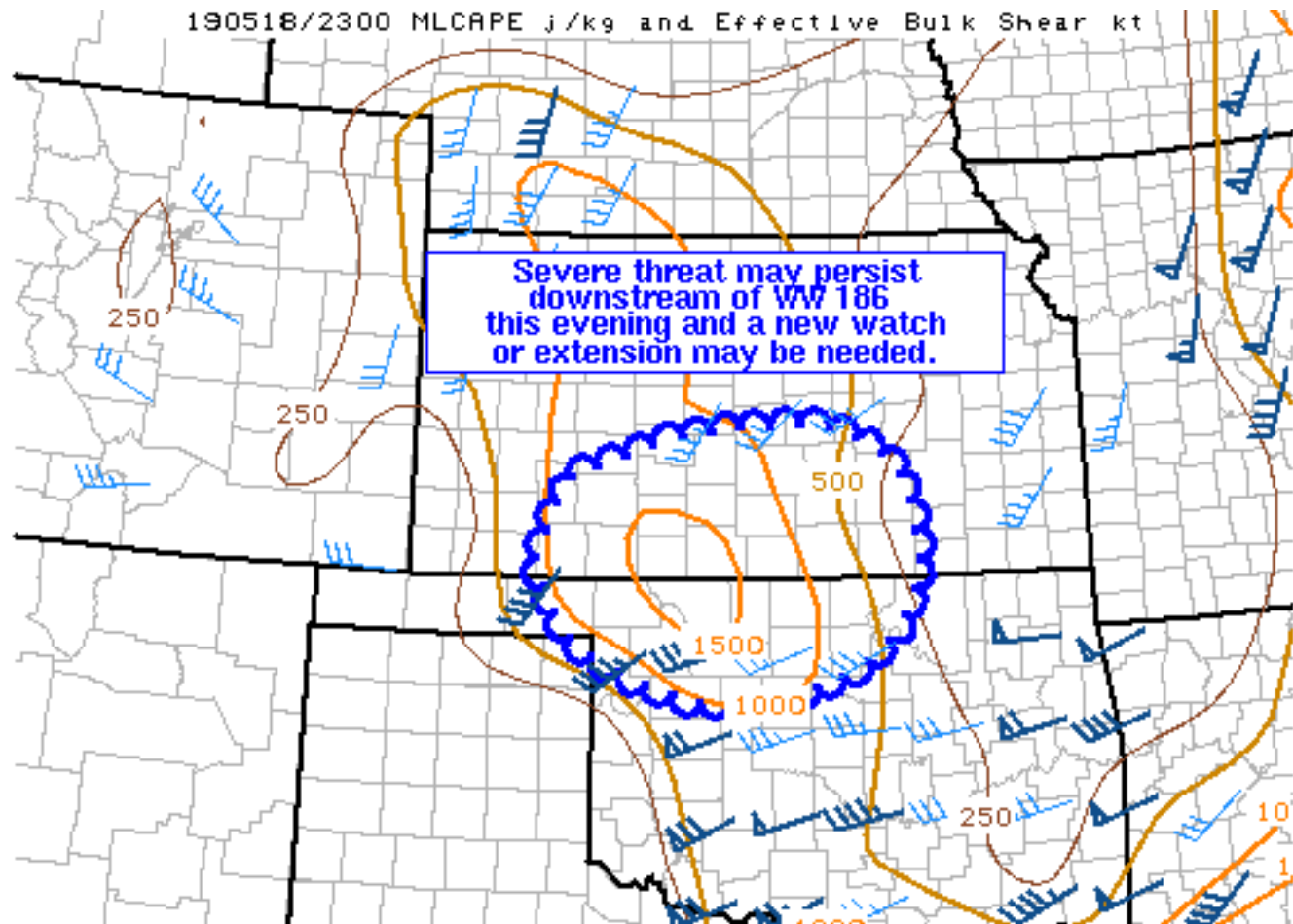
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Mesoscale Discussion 674

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Mesoscale Discussion 0674

NWS Storm Prediction Center Norman OK

0607 PM CDT Sat May 18 2019

Areas affected...portions of southern KS and northern OK

 Concerning...Severe Thunderstorm Watch [186](#)...

Valid 182307Z - 190030Z

The severe weather threat for Severe Thunderstorm Watch 186 continues.

SUMMARY...The severe threat will continue across southwest KS and northwest OK this evening. The threat may persist eastward into south-central KS/north-central OK through late evening.

 DISCUSSION...Strong to severe thunderstorms developed late this afternoon across southwest KS and northwest OK in the vicinity of a surface low and surging dryline. The airmass across [WW 186](#) and points downstream toward the I-35 corridor in south-central



KS/north-central OK as recovered somewhat from earlier convection and cloud cover. Latest mesoanalysis shows that dewpoints have increased 1-2 degrees over the last couple of hours and weak destabilization has occurred as temperatures warmed into the upper 60s and low 70s. Further east into southeast KS/northeast OK, a fairly pronounced cold pool was evident in observational data. Forecast guidance varies considerably, but at least weak instability, steep lapse rates and moderate deep layer shear are expected to persist across the area through the evening hours. It's unclear how far east the threat may persist, but current thinking is that the aforementioned cold pool should limit severe potential across far eastern KS/OK and western MO, but trends will be monitored.

In the more immediate future, a severe threat may extend a bit east of the current extent of [WW 186](#). A new downstream watch or an aerial/temporal extension by WFOs ICT and OUN may be needed.

..Leitman.. 05/18/2019

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

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