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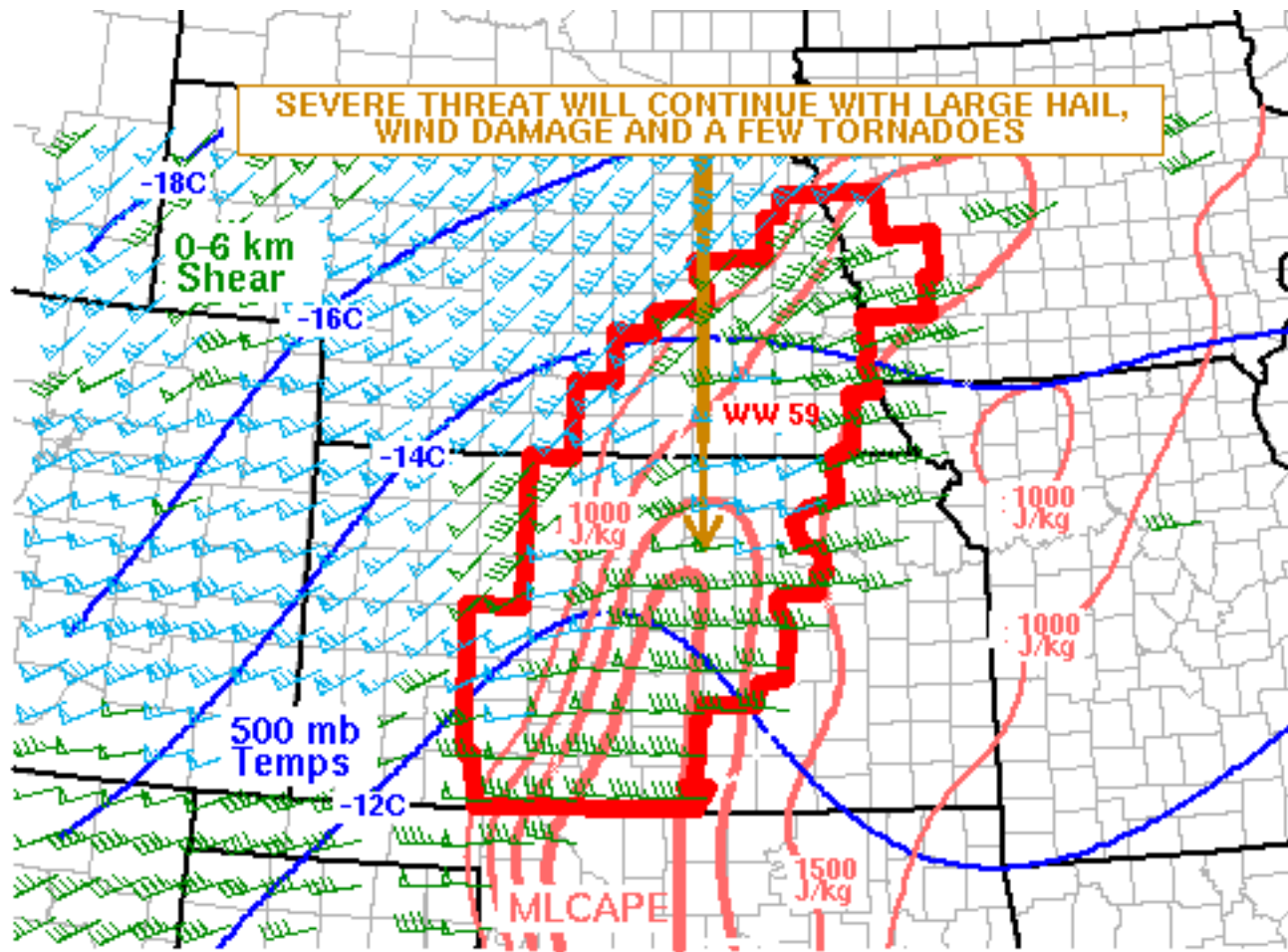
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SPC MCD #0309

Mesoscale Discussion 0309

NWS Storm Prediction Center Norman OK

0724 PM CDT Tue May 01 2018

Areas affected...Central and Eastern Kansas...Southeast
Nebraska...Southwest Iowa...Far Northwest Missouri

Concerning...Tornado Watch 59...

Valid 020024Z - 020230Z

The severe weather threat for Tornado Watch 59 continues.

SUMMARY...A severe threat with potential for tornadoes, wind damage and large hail, will continue over the next few hours across parts of east-central Kansas, southeast Nebraska and southwest Iowa. A new weather watch downstream into parts of eastern Kansas, northwest Missouri and far southern Iowa will need to be considered as the 03Z expiration of tornado watch 59 approaches.

DISCUSSION...The latest radar imagery shows a corridor of widely



spaced discrete supercells from south of Lincoln, NE south-southwestward into central Kansas to near the Oklahoma state line southeast of Dodge City, KS. The airmass ahead of the storms is moderately unstable with surface dewpoints in the lower to mid 60s F. This combined with steep mid-level lapse rates and 0-6 km shear in the 45 to 55 kt range as evidenced by the Wichita, KS and Hastings, NE WSR-88D VWP's, will be favorable for supercells with large hail. Hailstones of greater than 2 inches in diameter will be possible with the more intense supercells over the next hour or two but this threat should diminish later this evening. The RAP is also analyzing a 45 to 55 kt low-level jet across the eastern part of the tornado watch. As this feature continues to increase, a tornado threat will be maintained through mid evening. A strong tornado or two will be possible across north-central Kansas where low-level shear appears to be maximized. Wind damage will also be likely with supercells and bowing line segments. The severe threat could affect the far eastern part of the tornado watch across eastern Kansas in the 10 to 11 pm CDT timeframe where a new weather watch may be considered later this evening.

..Broyles/Edwards.. 05/02/2018

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

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