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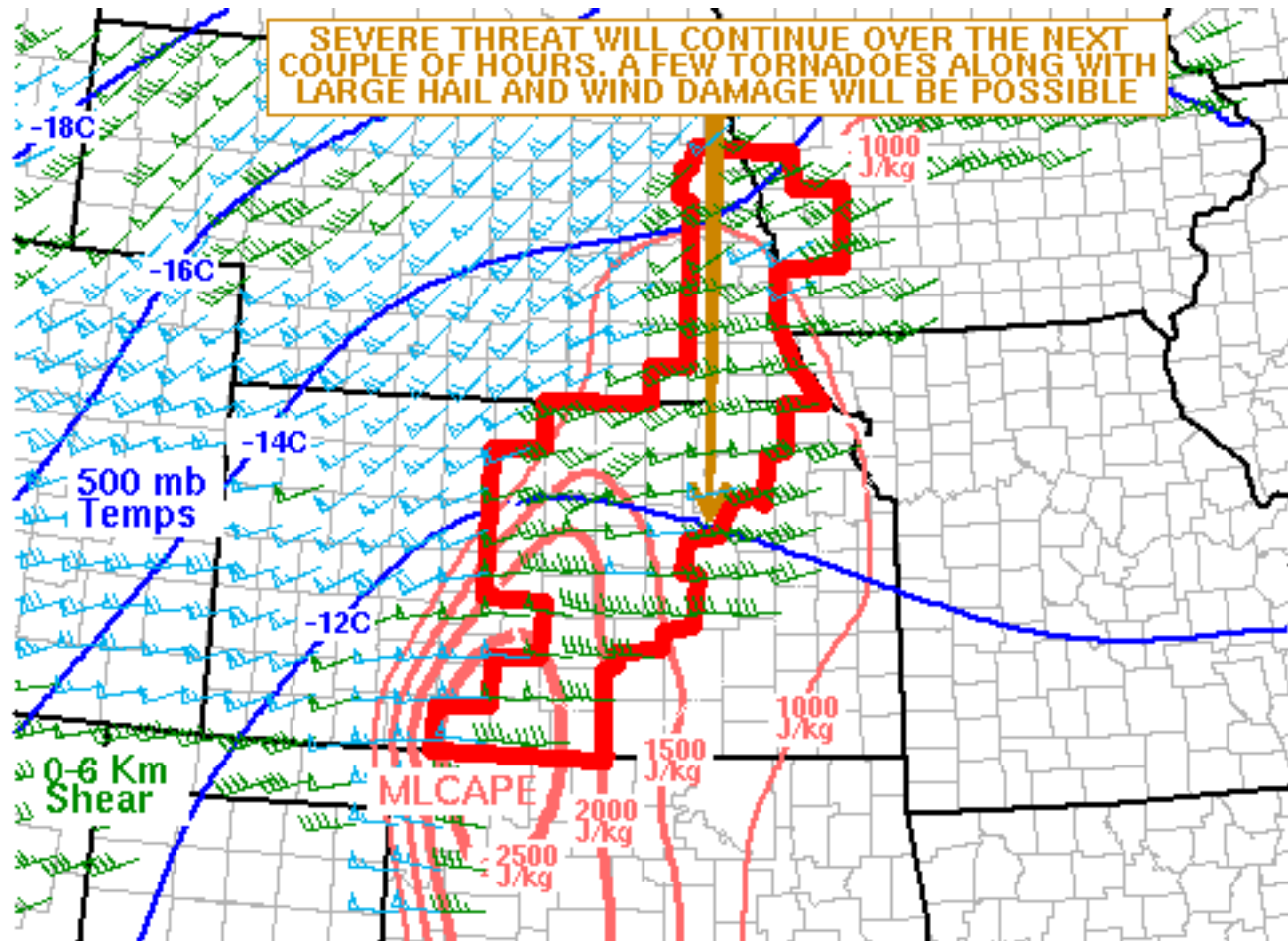
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## Mesoscale Discussion 311

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SPC MCD #0311

Mesoscale Discussion 0311

NWS Storm Prediction Center Norman OK

0906 PM CDT Tue May 01 2018

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

Concerning...Tornado Watch 59...

Valid 020206Z - 020300Z

The severe weather threat for Tornado Watch 59 continues.

SUMMARY...A severe threat is expected to continue across parts of north-central and northeast Kansas over the next couple of hours. Large hail and wind damage will be possible and a few tornadoes may also occur in northeast Kansas. Tornado watch 59 will expire at 03Z. Either a new weather watch or a local extension in area and time may be needed.

DISCUSSION...The latest radar imagery shows a cluster of severe



storms across north-central and northeast Kansas. This cluster is located on the northern edge of moderate instability where MLCAPE values are estimated to be in the 1000 to 2000 J/kg range. This combined with moderate to strong deep-layer shear evident on regional WSR-88D VWP's and steep mid-level lapse rates will continue to support supercells with large hail over the next couple of hours. Wind damage will also be possible with supercells and bowing line segments. A few tornadoes may also occur mainly across northeast Kansas where low-level shear will continue to be favorable late this evening. Due to an expected severe threat past 03Z, a new weather watch or local extension will likely be needed.

Further south across south-central Kansas, a capping inversion has become re-established which is evident on the 00Z Lamont, OK sounding. This has ended the severe threat there.

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

...Please see [www.spc.noaa.gov](http://www.spc.noaa.gov) for graphic product...

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