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Mesoscale Discussion 1116

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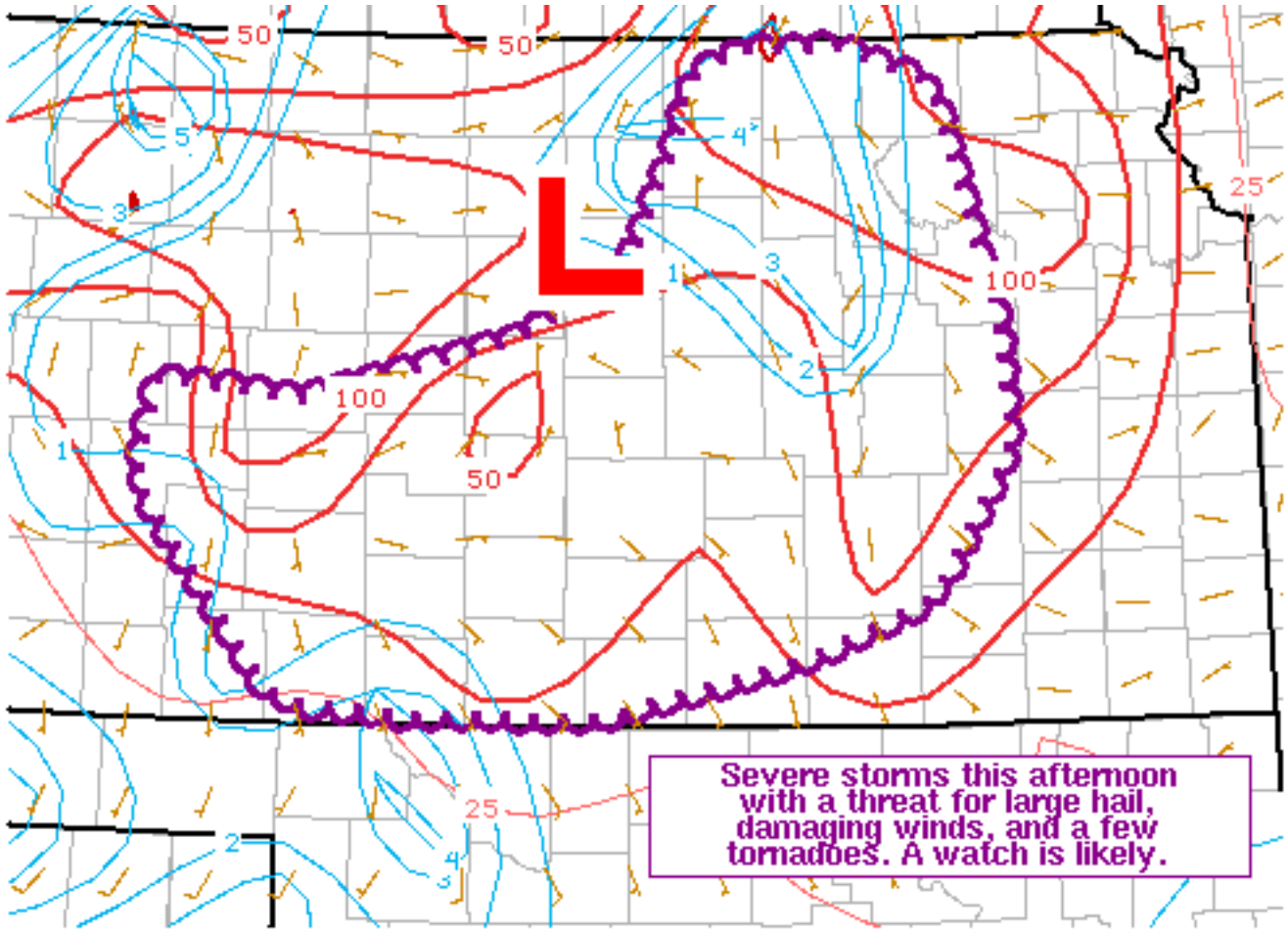

SPC MCD #1116

Mesoscale Discussion 1116
NWS Storm Prediction Center Norman OK
0117 PM CDT Tue Jun 18 2019

Areas affected...Central and South-Central Kansas

Concerning...Severe potential...Watch likely

Valid 181817Z - 182015Z

Probability of Watch Issuance...80 percent

SUMMARY...Severe storms are expected this afternoon and evening with a threat of large hail, damaging winds, and a few tornadoes. A watch is likely.

DISCUSSION...Cloud cover has started to dissipate in the vicinity of an MCV located in central Kansas. This has allowed temperatures to warm into the upper 70s to low 80s south and east of this MCV. Additional surface heating should lead to robust updraft development by later this afternoon as MLCAPE increases to 1500 to 2000 J/kg per

the RAP. Mid-level flow is expected to increase through the day which will increase effective shear to around 35 to 40 knots by later this afternoon. This combination of instability and shear should support some supercell structures with hail as the primary threat.

The meso-low associated with the MCV is quite weak, therefore, winds are mostly light in its vicinity. While lower tropospheric winds are weak, there is some cyclonic curvature in the lowest 1 km yielding effective SRH around 75 to 100 m2/s2. Therefore, a few tornadoes are possible, but should remain in close proximity to the MCV where low-level vorticity is maximized.

..Bentley/Guyer.. 06/18/2019

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

ATTN...WFO...TOP...ICT...GID...DDC...

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38379600 38189601 37559645 37289719 37059824 37049930
37100001 37390028 38010082 38460074 38399992 38709865
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