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Mesoscale Discussion 483

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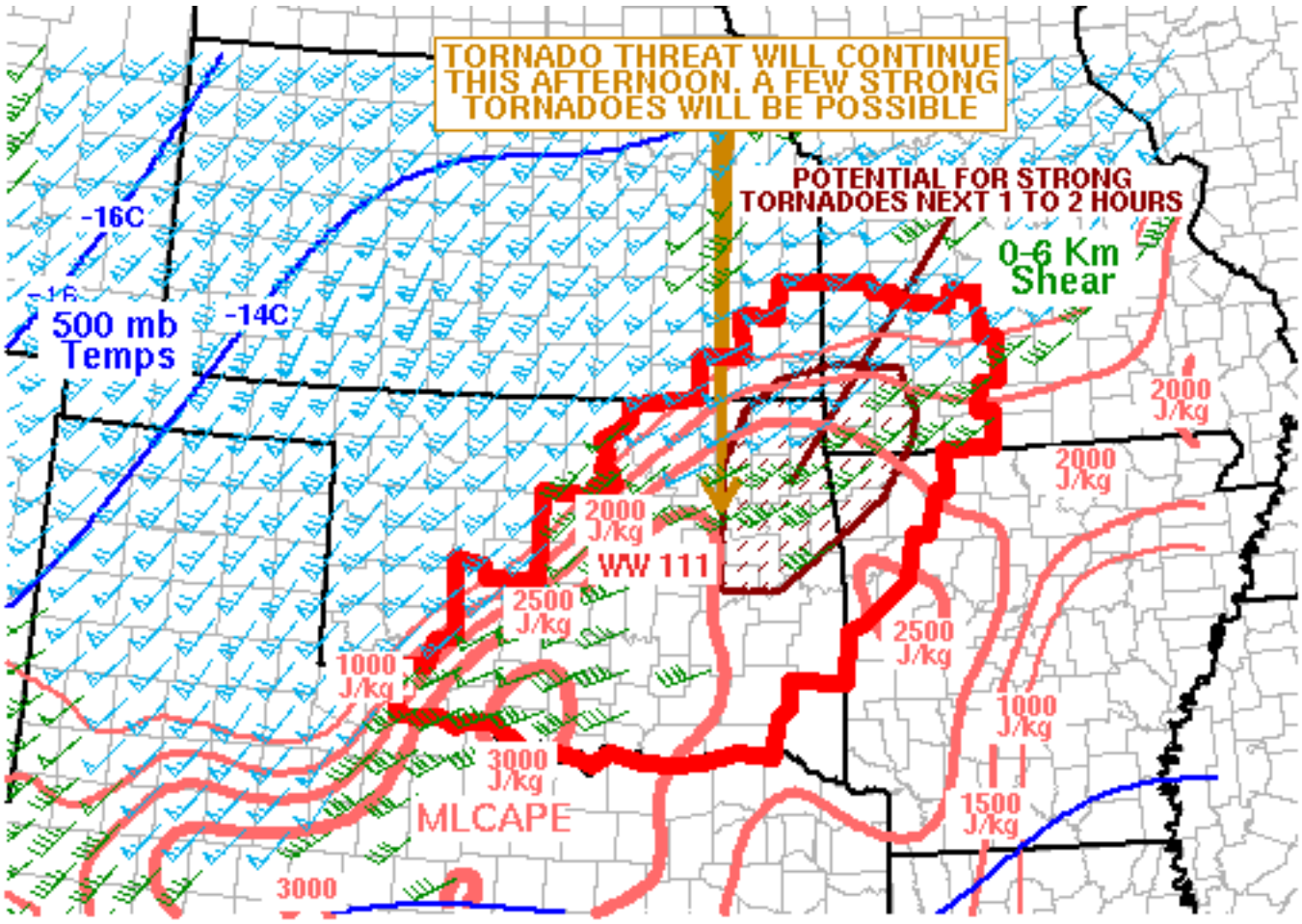

SPC MCD #0483

Mesoscale Discussion 0483
NWS Storm Prediction Center Norman OK
0326 PM CDT Tue Apr 30 2019

Areas affected...Oklahoma...Northwest Arkansas...Southwest Missouri...Far Southeast Kansas

Concerning...Tornado Watch 111...

Valid 302026Z - 302230Z

The severe weather threat for Tornado Watch 111 continues.

SUMMARY...A tornado threat is likely to continue across WW 111 through late this afternoon. Tornadoes, large hail and wind damage will be possible over the next couple of hours. A potential for strong tornadoes will also exist.

DISCUSSION...Latest surface analysis shows a quasi-stationary front across north-central Oklahoma. Tornadic supercells are ongoing to the southeast of the boundary from just north of Tulsa to southeast

of Tulsa. Surface dewpoints in the Tulsa area are in the upper 60s and lower 70s F, contributing to moderate instability with MLCAPE values of 2000-2500 J/kg. In addition, the Tulsa WSR-88D VWP shows a looped hodograph with 0-3 km storm relative helicity near 300 m2/s2. This will continue to be favorable for tornadoes with the more dominant supercells. Low-level shear is forecast to strengthen even more over the next few hours, suggesting a potential for strong tornadoes will exist. The low-level shear also appears favorable for tornadoes across a large area including southwest Missouri and northwest Arkansas. The amount of instability and deep-layer shear will also be favorable for large hail and wind damage with supercells and the more organized multicells.

..Broyles/Hart.. 04/30/2019

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

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