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Mesoscale Discussion 712

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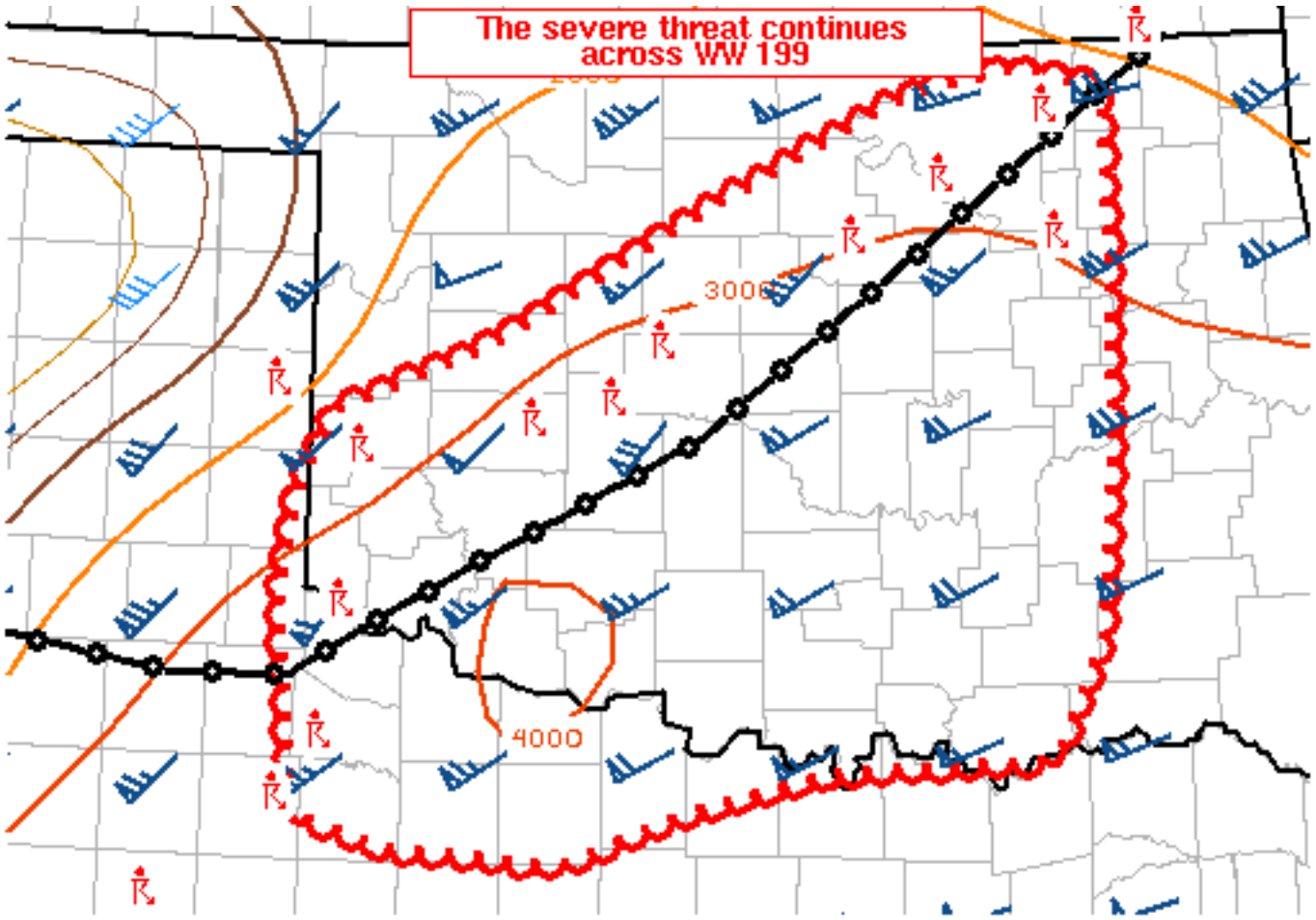

SPC MCD #0712

Mesoscale Discussion 0712
NWS Storm Prediction Center Norman OK
0822 PM CDT Mon May 20 2019

Areas affected...much of Oklahoma and western north Texas

Concerning...Tornado Watch 199...

Valid 210122Z - 210215Z

The severe weather threat for Tornado Watch 199 continues.

SUMMARY...The severe threat continues in portions of central and southern Oklahoma and western north Texas.

DISCUSSION...Most of the storms in central Oklahoma have been undercut by an extensive outflow boundary located from northwest of TUL through OKC and LTS, with the most substantial surface-based activity now entering portions of Foard and Knox counties in Texas. The undercutting nature of the outflow has tempered the tornado threat across much of central Oklahoma in the near-term, though hail

and damaging wind gusts continue along and north of the outflow with training convection moving east-northeast. In northeastern Oklahoma, however, surface-based parcels are still being ingested within a broken line of storms in that area, and strong shear/instability continues to support more of a threat for tornadoes and damaging wind gusts.

More isolated convection south of the boundary continues to struggle against weak mid-level inhibition located at around 700 hPa on the 00Z OUN RAOB. The trend with this convection has been upward, however, with mesocyclones noted in relatively shallow convection just south of the Tulsa area. If storms can continue to deepen within the pre-convective environment, the parameter space remains favorable for all modes of severe, including significant tornadoes. Western north Texas convection will also have an increased threat for severe as it progresses eastward into an even more strongly sheared and unstable environment to its east.

Over time, increased forcing for ascent associated with the longwave trough now traversing New Mexico will foster upscale growth of storms into one or two linear complexes. Damaging wind gusts and hail would be the most favored severe mode with this activity, though isolated tornadoes cannot be ruled out. It is uncertain whether upscale growth in southern portions of the WW area will occur with ongoing activity in western north Texas or wait for stronger forcing aloft and redevelopment southwest of WW 199.

..Cook.. 05/21/2019

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

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