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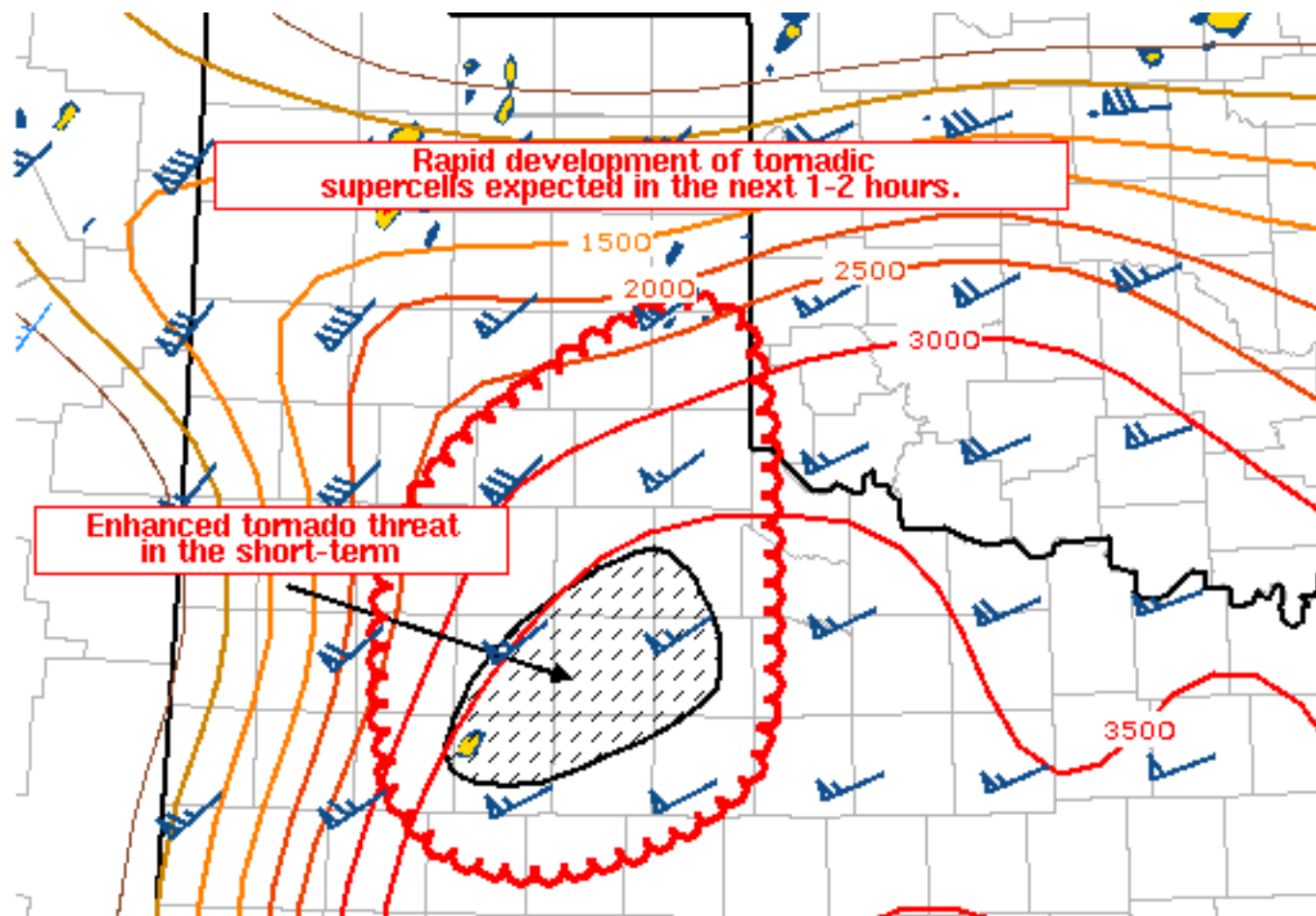
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Mesoscale Discussion 703

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SPC MCD #0703

Mesoscale Discussion 0703

NWS Storm Prediction Center Norman OK

0137 PM CDT Mon May 20 2019

Areas affected...Texas Panhandle/West Texas

 Concerning...Tornado Watch [197](#)...

Valid 201837Z - 201930Z

The severe weather threat for Tornado Watch 197 continues.

SUMMARY...Rapid development of tornadic supercells expected in the next 1-2 hours.

 DISCUSSION...Convective initiation is underway across the Texas Panhandle and west Texas within an environment characterized by MLCAPE of 3500-4000 J/kg, effective bulk shear of 50-60 kt, and effective SRH of 300+ m²/s². In addition, observed soundings launched by the TORUS field program in this area (Wellington, TX) indicate weak CIN and a favorable low-level kinematic environment



for tornadoes in proximity to the developing convection, with a sickle-shaped hodograph and 0-1 km AGL SRH near $300 \text{ m}^2/\text{s}^2$. Convection that is developing now is expected to mature quickly, and given the ambient environment, storms should quickly evolve into supercell structures capable of significant, long-tracked tornadoes within the next hour or two -- in agreement with SPC objective analysis.

..Karstens.. 05/20/2019

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

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