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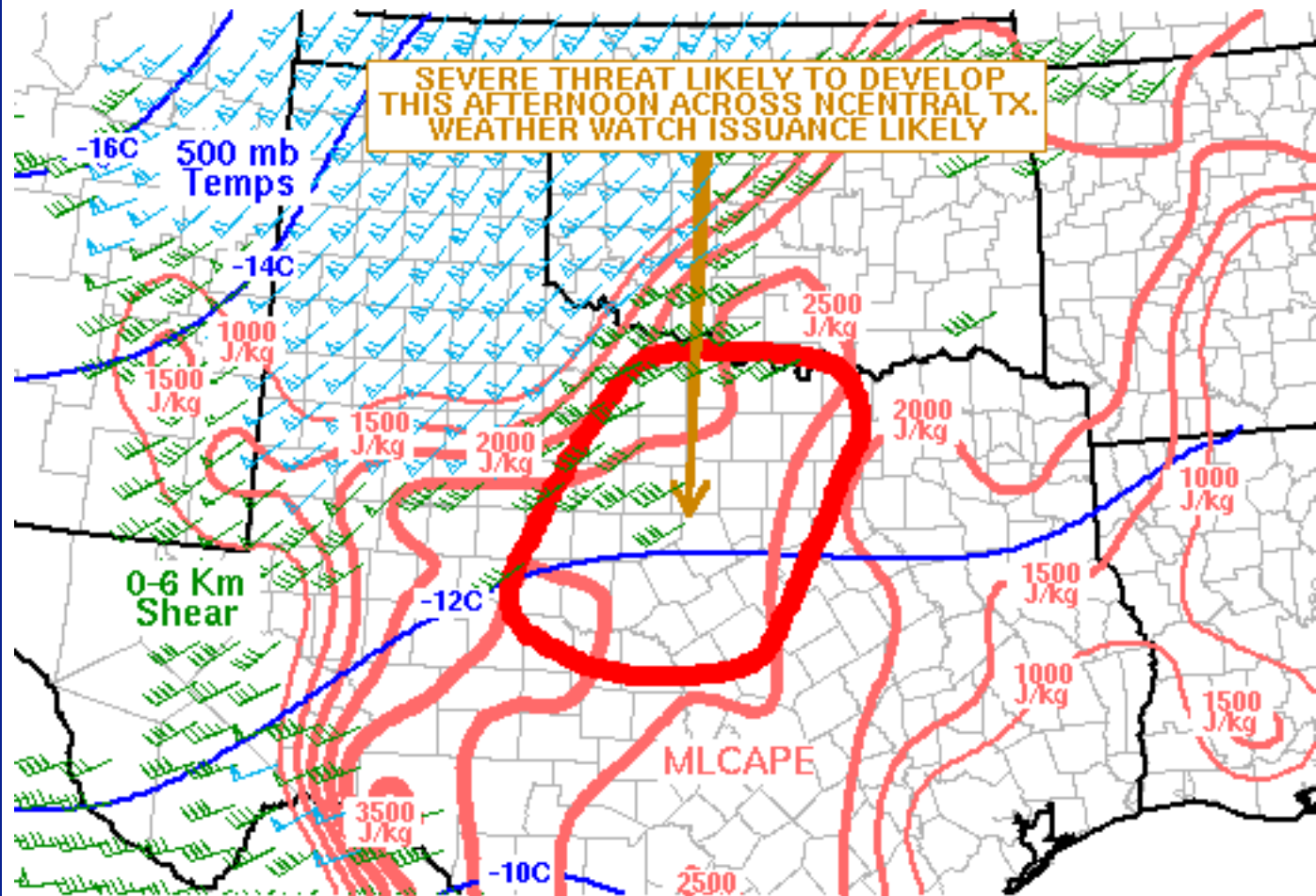
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SPC MCD #0480

Mesoscale Discussion 0480

NWS Storm Prediction Center Norman OK

0153 PM CDT Tue Apr 30 2019

Areas affected...North-central Texas

Concerning...Severe potential...Watch likely

Valid 301853Z - 302100Z

Probability of Watch Issuance...80 percent

SUMMARY...A severe threat is likely to develop this afternoon across parts of north-central Texas. Large hail, wind damage and an isolated tornado threat can be expected. Weather watch issuance will likely be needed.

DISCUSSION...Latest surface analysis shows a stationary front located in southwest Oklahoma and northwest Texas. The airmass southeast of the front is moderately unstable with surface dewpoints near 70 F. MLCAPE values are generally estimated in the 2000 to 3000



J/kg range by the RAP. In addition, the RAP has moderate deep-layer shear across north-central Texas with 0-6 km shear estimated in the 35 to 45 kt range. This will be favorable for supercells. The main uncertainty is the exact timing of initiation. The latest radar imagery shows weak echos in the vicinity of Stephenville. The current thinking is that a storm will develop in this area sometime between 20Z and 21Z. After that, convective coverage is expected to expand with a cluster moving east-northeastward toward the Dallas-Fort Worth metro area, possibly approaching the Red River later this afternoon. Supercells will likely be associated with large hail and wind damage. An isolated tornado threat is also expected as low-level shear increases during the late afternoon and early evening.

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

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

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