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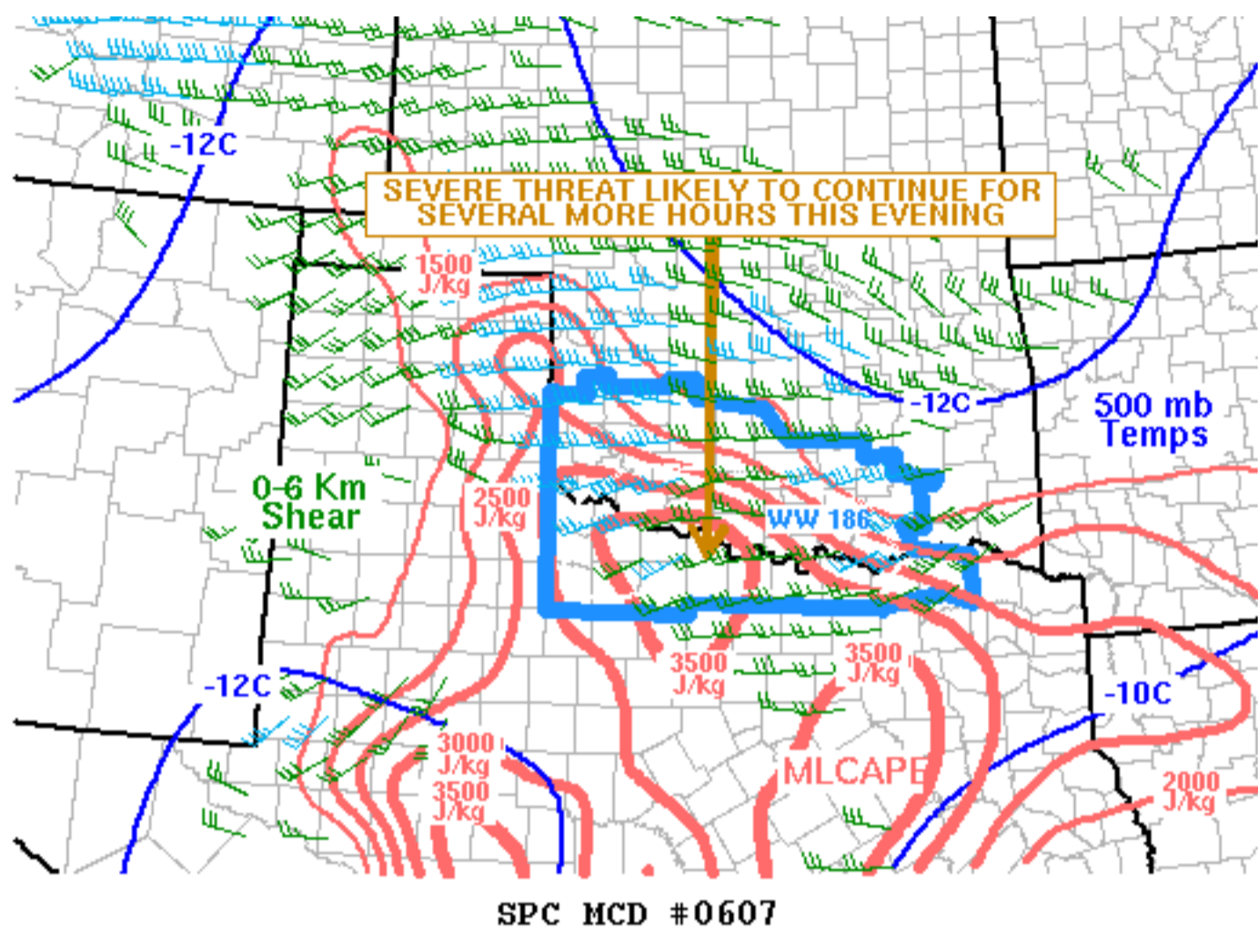
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Mesoscale Discussion 607

< Previous MD Next MD >



Mesoscale Discussion 0607
 NWS Storm Prediction Center Norman OK
 0659 PM CDT Fri May 15 2020

Areas affected...North Texas...Southern Oklahoma

Concerning...Severe Thunderstorm Watch 186...

Valid 152359Z - 160200Z

The severe weather threat for Severe Thunderstorm Watch 186 continues.

SUMMARY...A severe threat will continue for several more hours across WW 186 from southern Oklahoma into north Texas. Large hail and wind damage will be the main threats.

DISCUSSION...The latest surface analysis shows a 1001 mb low in northwest Texas with backed easterly surface winds across much of north Texas and southern Oklahoma. An axis of low-level moisture extends westward from northeast Texas into northwest Texas along the Red River, where surface dewpoints are in the lower 70s F. This is contributing to strong instability with the RAP estimating MLCAPE around 3500 J/kg. In addition, the Frederick WSR-88D VWP shows 0-6 km near 45 kt with strong directional shear in the lowest 2 Km AGL. This wind profile will be favorable for multicell line segments although isolated supercells will also be possible. As cells continue to congeal, a mult-segmented line segment with embedded severe storms may organize and move eastward across north Texas over the next few hours. The greatest potential would along the outflow boundary where surface-based instability is present. Wind damage will be possible along the leading edge of the more organized part of the line segment. Isolated large hail will also be possible with the more intense cores.

..Broyles.. 05/15/2020

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

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