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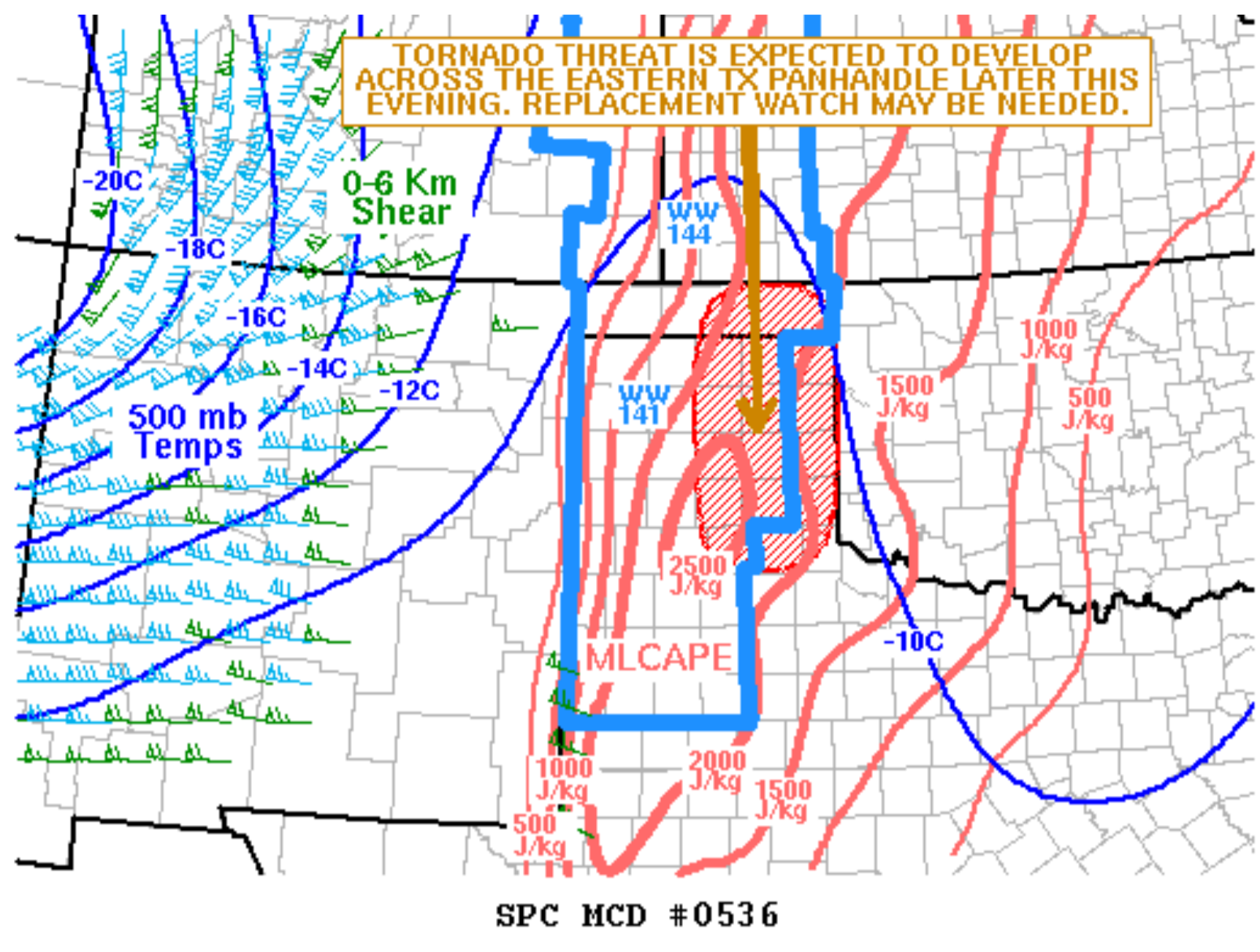
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Mesoscale Discussion 536

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Mesoscale Discussion 0536
 NWS Storm Prediction Center Norman OK
 0701 PM CDT Fri Apr 22 2022

Areas affected...Eastern Oklahoma and Texas Panhandles

Concerning...Severe Thunderstorm Watch 141...

Valid 230001Z - 230145Z

CORRECTED FOR WORDING

The severe weather threat for Severe Thunderstorm Watch 141 continues.

SUMMARY...The severe threat will continue this evening across the Oklahoma and Texas Panhandle, where large hail and wind damage will be possible. A tornado threat could develop across the eastern Texas Panhandle with a couple of hours. A replacement watch could be necessary.

DISCUSSION...The latest high-resolution radar imagery from Amarillo has several supercell thunderstorms ongoing from just northwest of Amarillo northward into the central Oklahoma Panhandle. These storms are located just to the east of a dryline, along the western edge of a pocket of moderate instability with MLCAPE from 2000 to 2500 J/kg. This combined with mid-level lapse rates of 7.5 to 8.0 C/km will be favorable for large hail. An isolated wind damage threat will also exist. Hailstones of greater than 2 inches in diameter could occur with the most intense updrafts.

Over the next few hours, an 80 to 100 knot mid-level jet will approach the southern High Plains. This combined with a strengthening low-level jet across the southern and central Plains, will be will markedly increase deep-layer and low-level shear. For these reasons, a tornado threat may develop, mainly with the most dominant supercells that can move eastward into the higher surface dewpoints across the eastern Texas Panhandle. Tornado watch issuance could become necessary.

..Broyles.. 04/23/2022

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

ATTN...WFO...LUB...AMA...

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