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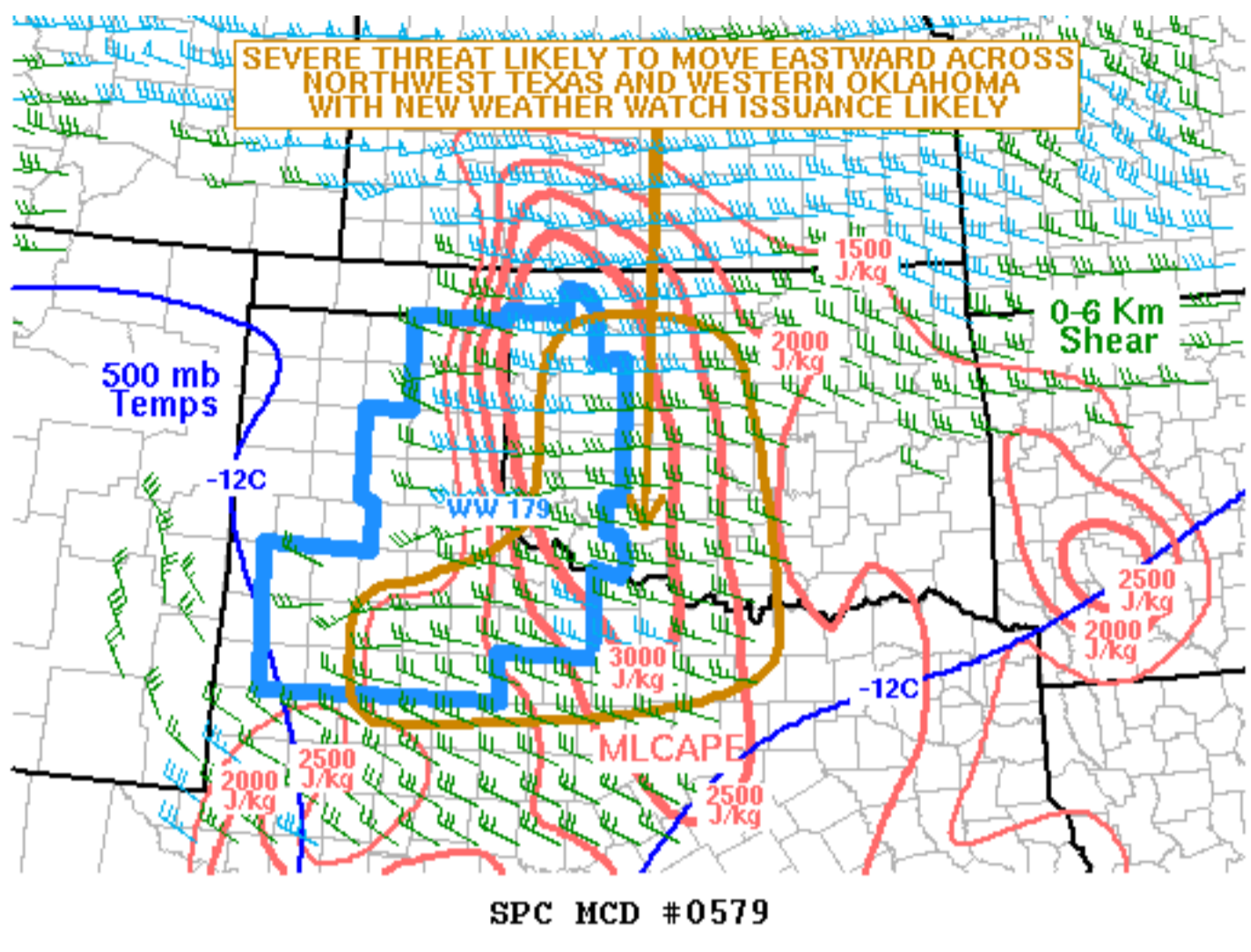
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Mesoscale Discussion 579

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SPC MCD #0579

Mesoscale Discussion 0579
 NWS Storm Prediction Center Norman OK
 0759 PM CDT Wed May 13 2020

Areas affected...Western Oklahoma...Northwest Texas

Concerning...Severe Thunderstorm Watch 179...

Valid 140059Z - 140300Z

The severe weather threat for Severe Thunderstorm Watch 179 continues.

SUMMARY...A severe threat is likely to continue and move eastward across western Oklahoma and northwest Texas this evening. Large hail and wind damage will be possible with the stronger cells embedded in a line. Weather watch issuance will likely be needed to the east of WW 179.

DISCUSSION...The latest radar imagery shows a developing line segment from far southwest Oklahoma extending southwestward to near the Lubbock vicinity. This line is located along a northeast-to-southwest corridor of enhanced low-level convergence. A thermal axis is present directly south of the line where temperatures are in the lower 90s. This has helped the line to intensify over the last hour. The line will move eastward across western Oklahoma and northwest Texas where surface dewpoints are in the mid to upper 60s. The RAP is analyzing moderate to strong instability (MLCAPE 3000 to 3500 J/kg) with 0-6 km shear of 30 to 40 kt. In response, the line should continue to maintain intensity and have a severe threat. The instability along with mid-level lapse rates in excess of 8.0 C/km will be favorable for large hail. A wind damage threat will also be likely along the more organized parts of the line segment. As the severe threat moves toward the edge of WW 179, a new weather watch will likely be needed.

..Broyles.. 05/14/2020

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

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 36880087 36990054 37040002 36949967 36769936 36639925
 36299898 35729877 35039868 34369884 33879917 33109976
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