



Local forecast by "City, St" or "ZIP"

City, St

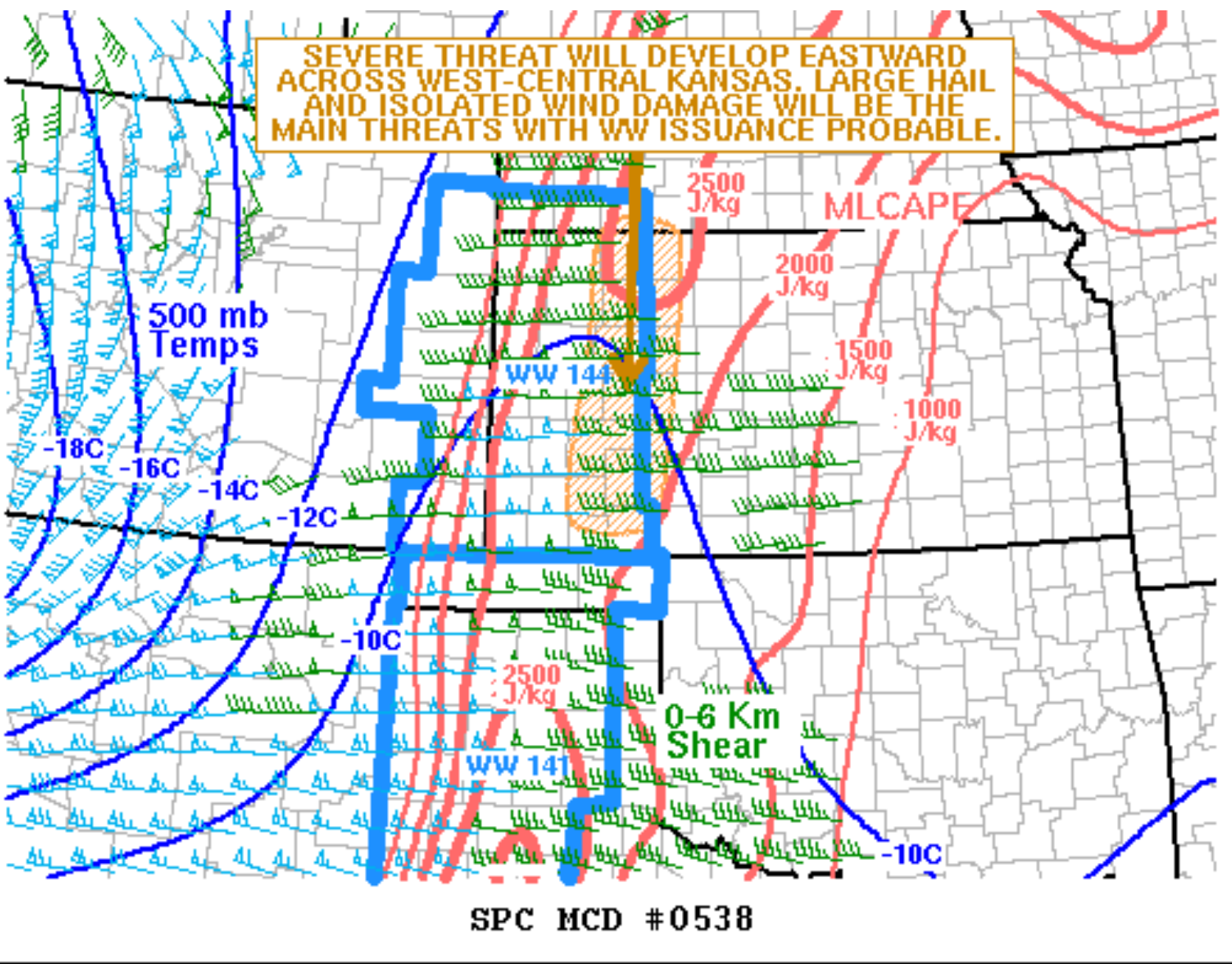


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Mesoscale Discussion 538

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Mesoscale Discussion 0538
 NWS Storm Prediction Center Norman OK
 0831 PM CDT Fri Apr 22 2022

Areas affected...West-central Kansas

Concerning...Severe Thunderstorm Watch 144...

Valid 230131Z - 230330Z

The severe weather threat for Severe Thunderstorm Watch 144 continues.

SUMMARY...A severe threat ongoing across western Kansas will continue over the next few hours. The severe threat will affect the far eastern part of WW 144, but uncertainty exists concerning how far east the severe threat will develop.

DISCUSSION...The latest high-resolution radar imagery from Dodge City shows a cluster of severe storms in southwest Kansas, and more widely spaced severe storms in northwest Kansas. The storms are located to the east of a dryline where surface dewpoints are lower 60s F. The axis of strongest instability is located just to the east of the ongoing activity. This combined with a strengthening low-level jet will enable the severe threat to continue over the next few hours. In addition, the WSR-88D VWP at Goodland has nearly 40 knots of 0-6 km shear. This combined with 700-500 mb lapse rates near 7.5 C/km will be favorable for supercells with large hail. Hailstones of greater than 2 inches in diameter will be possible, mainly in southwest Kansas, where the storms have exhibited more classic supercell structure. The threat for large hail and wind damage may move into the far eastern part of WW 144, but there is uncertainty concerning a severe threat to the east of the watch due to capping issues.

..Broyles/Thompson.. 04/23/2022

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

ATTN...WFO...GID...DDC...GLD...

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