



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

City, St



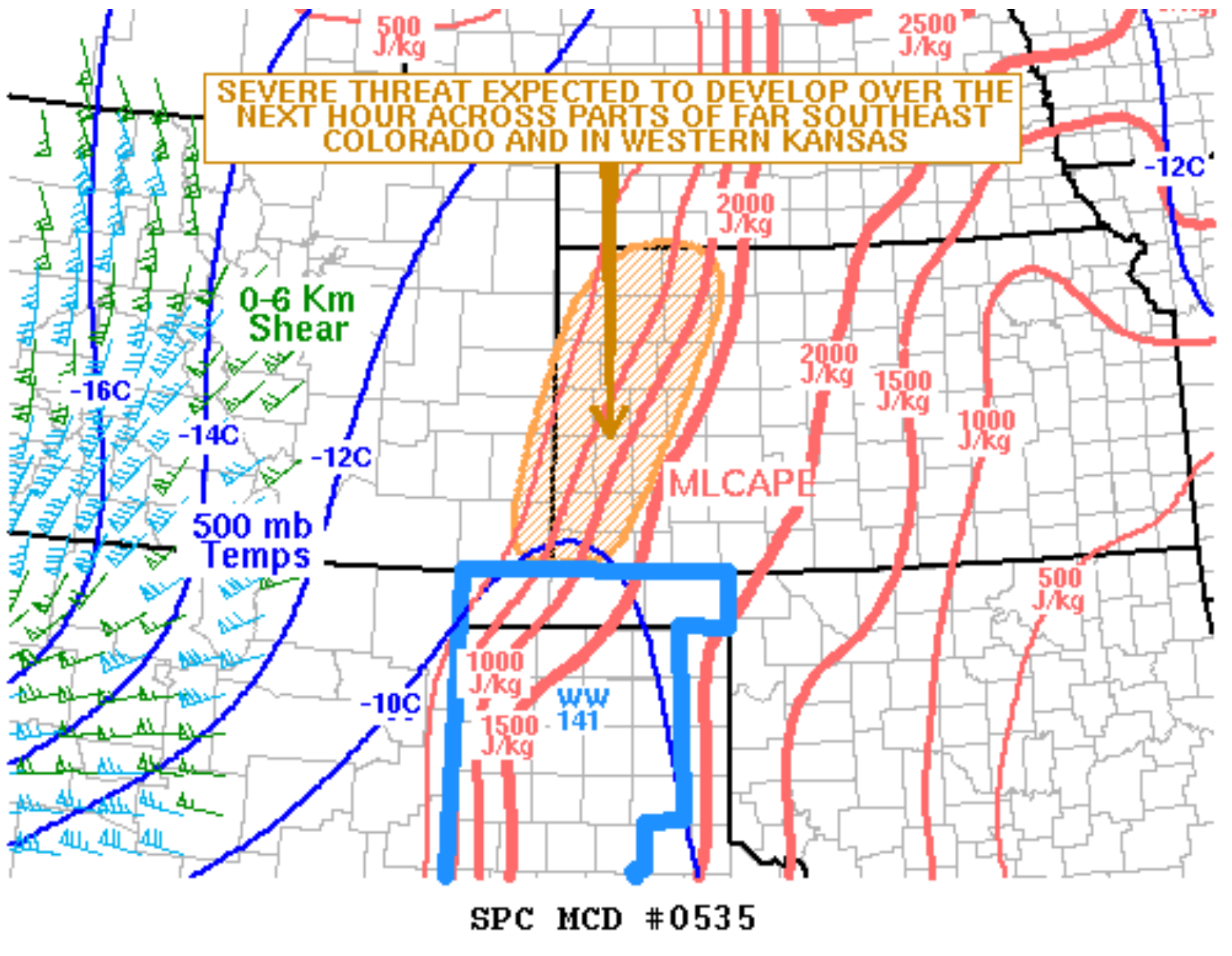
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Mesoscale Discussion 535

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Mesoscale Discussion 0535
 NWS Storm Prediction Center Norman OK
 0535 PM CDT Fri Apr 22 2022

Areas affected...Far Southeast Colorado...Western Kansas

Concerning...Severe potential...Watch likely

Valid 222235Z - 230030Z

Probability of Watch Issuance...95 percent

SUMMARY...A severe threat is expected to develop over the next hour across far southeast Colorado into western Kansas. Large hail, wind damage and an isolated tornado threat will likely accompany the stronger thunderstorms. Weather watch issuance will be needed soon.

DISCUSSION...Latest surface analysis has a 986 mb low over northern Colorado with a dryline from near Goodland extending southward to near Dalhart. To the east of the dryline, surface dewpoints are in the mid to upper 50s F. The RAP has MLCAPE to the east of the dryline in the 1000 to 2500 J/kg range. Thunderstorms have developed just to the east of the dryline in the northwestern Texas Panhandle and western Oklahoma Panhandle. This convection is expected to continue expanding in coverage, moving north-northeastward into southwest Kansas over the next hour. In addition to moderate instability, RAP forecast soundings have 0-6 km shear in the 30 to 40 knot range. This combined with 700-500 mb lapse rates of 7.5 to 8.0 C/km will be favorable for supercells with large hail. Hailstones of greater than 2 inches in diameter will be possible with the more intense supercells.

The dryline is forecast to retreat early this evening as surface winds back to the south-southeast. As a result, a severe threat could impact far southeastern Colorado as well. Weather watch issuance will likely be needed for parts of far southeast Colorado and western Kansas needed soon.

..Broyles/Thompson.. 04/22/2022

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

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