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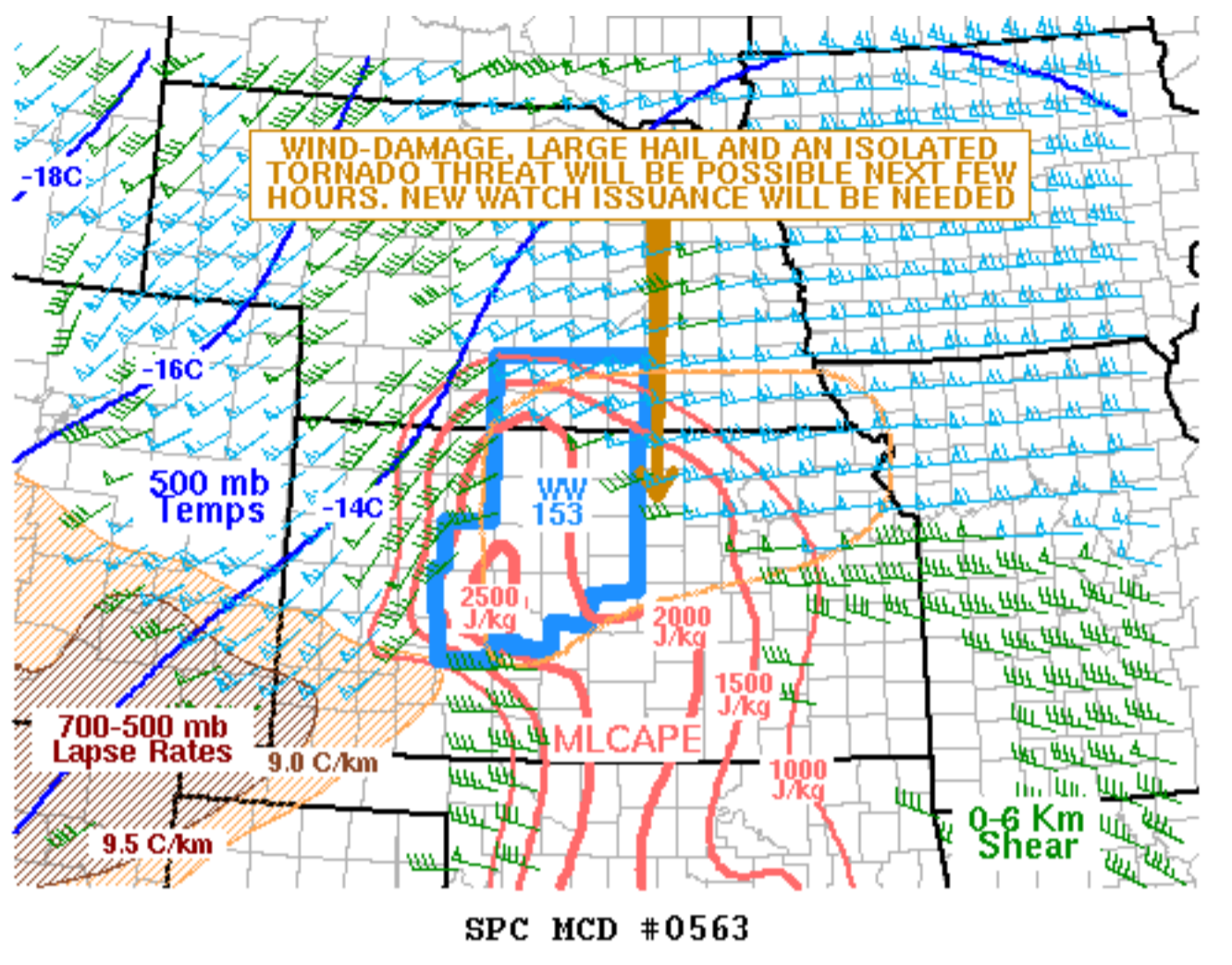
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Mesoscale Discussion 563

< Previous MD Next MD >



Mesoscale Discussion 0563
 NWS Storm Prediction Center Norman OK
 0606 PM CDT Sat May 08 2021

Areas affected...Kansas...Southern Nebraska...Far Northwest Missouri

Concerning...Severe Thunderstorm Watch 153...

Valid 082306Z - 090100Z

The severe weather threat for Severe Thunderstorm Watch 153 continues.

SUMMARY...Wind-damage, large hail and a tornado threat will continue to be possible across central and northern Kansas into southern Nebraska over the next few hours. Weather watch issuance will be needed soon across parts of northeast Kansas, southeast Nebraska and far northwest Missouri.

DISCUSSION...Latest radar imagery shows two clusters of strong to severe thunderstorms. The first is located in west-central Kansas with the second in far south-central Nebraska. These storms are located along an axis of moderate instability with the RAP estimating MLCAPE in the 1500 to 2500 J/kg range. A 994 mb surface low is located over southwest Kansas. The low is associated with a shortwave trough over far eastern Colorado, evident on water vapor imagery. As the shortwave moves eastward low-level flow will increase across the central Plains. This will support the development of a MCS. The latest WSR-88D WVP from Hastings shows 0-6 km shear 55 kt with 0-3 km storm relative helicities near 350 m2/s2. This combined with 700-500 mb lapse rates near 8.0 C/km will support supercells with large hail and possibly a tornado threat. As the storms merge into a bowing line segment, the wind-damage threat will increase later this evening.

..Broyles.. 05/08/2021

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

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