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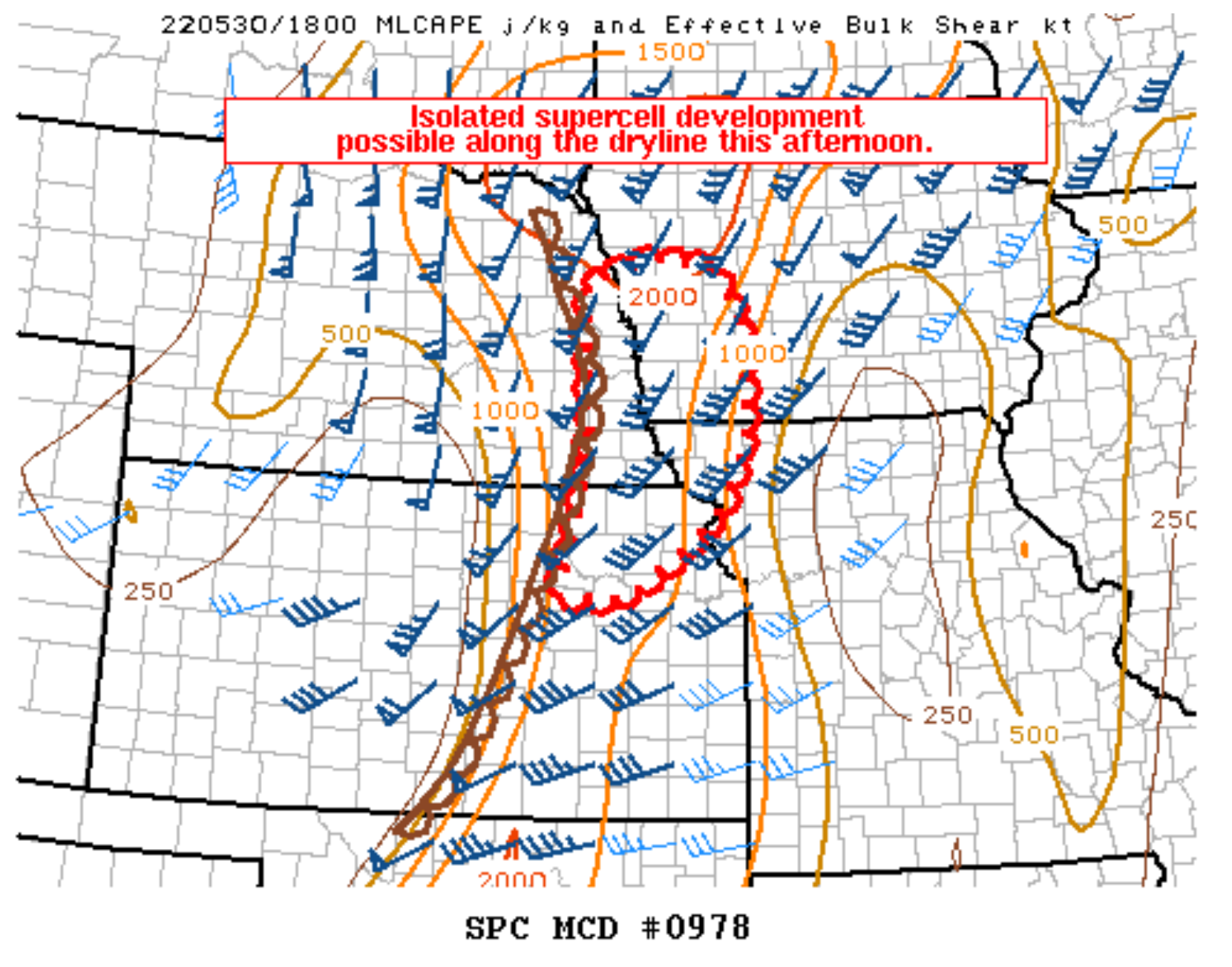
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## Mesoscale Discussion 978

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Mesoscale Discussion 0978

NWS Storm Prediction Center Norman OK

0155 PM CDT Mon May 30 2022

Areas affected...Southeastern Nebraska...southwestern  
Iowa...northeastern Kansas...and far northwest Missouri

Concerning...Severe potential...Watch possible

Valid 301855Z - 302100Z

Probability of Watch Issuance...40 percent

SUMMARY...Potential for supercell development this afternoon. All  
severe weather hazards are possible.

DISCUSSION...Towers have developed along a strong dryline circulation from the surface low in northern Nebraska into central Kansas with composite radar showing some attempts at deeper cores developing. The OAX 18Z RAOB showed significant ascent in the 850-700mb layer in the prior 6 hours which has significantly eroded inhibition with CINH at -46 J/kg. Mid-level heights will be neutral to slightly rising across this portion of the dryline for the remainder of the day. Therefore, despite an uncapped boundary layer and a strong dryline circulation, storms would likely be more isolated until later this evening when the cold front overtakes the dryline. However, current visible satellite and radar trends suggest more widespread storm coverage may be possible this afternoon.

Any storms which develop will likely be supercellular given 50-55 knots of shear and strengthening mid-level flow with MLCAPE around 1500 J/kg and expected to increase to 2000 J/kg later this afternoon. The 18Z OAX RAOB showed a long and straight hodograph, but at least some low-level backing is forecast through this afternoon/evening as the surface low continues to deepen. All severe weather hazards will be possible, including large hail (some very large), damaging winds, and a few tornadoes.

..Bentley/Thompson.. 05/30/2022

...Please see [www.spc.noaa.gov](http://www.spc.noaa.gov) for graphic product...

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