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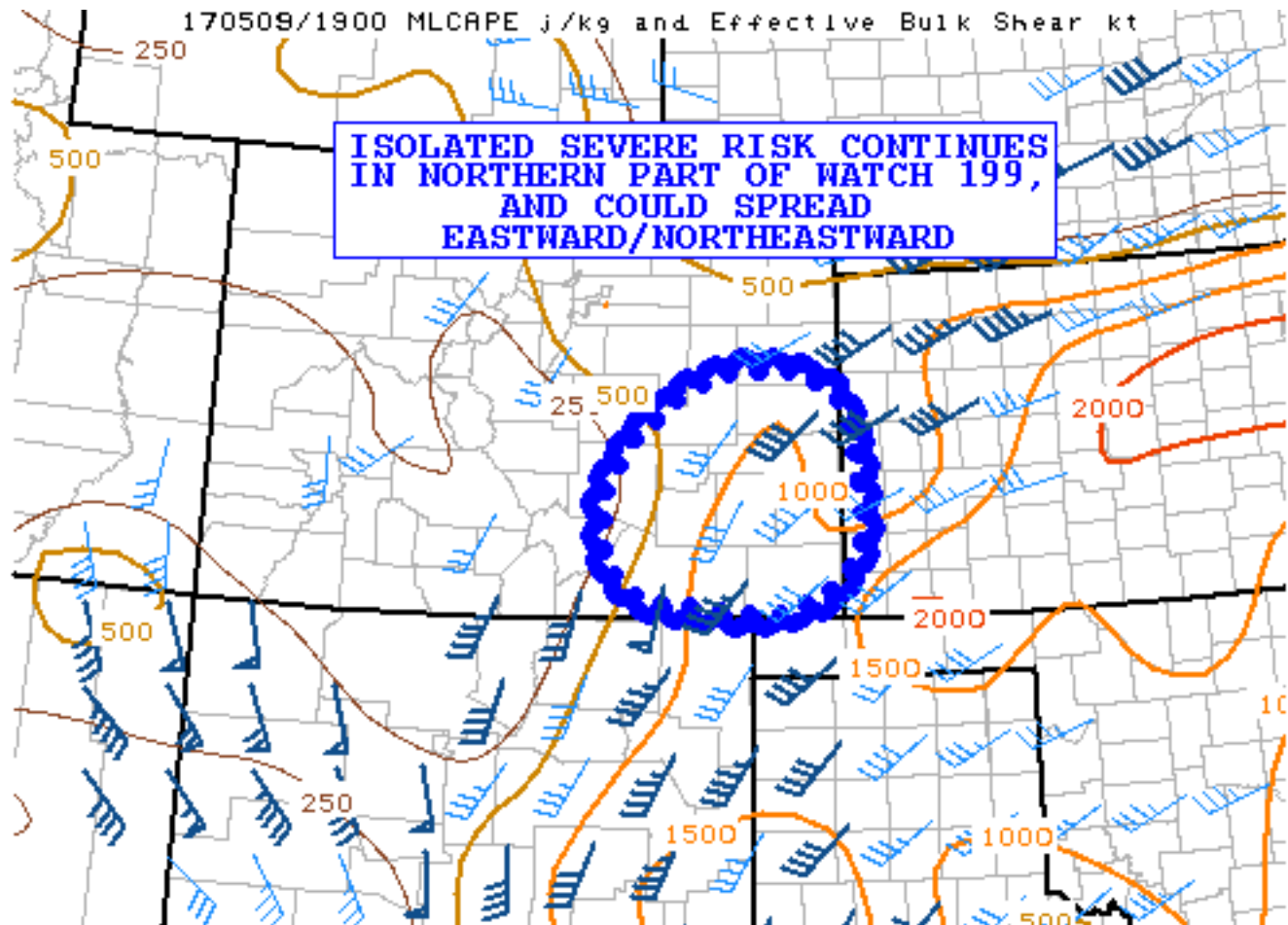
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## Mesoscale Discussion 671

&lt; Previous MD

Next MD &gt;



SPC MCD #0671

Mesoscale Discussion 0671

NWS Storm Prediction Center Norman OK

0329 PM CDT Tue May 09 2017

Areas affected...Portions of eastern CO and extreme western KS

Concerning...Severe Thunderstorm Watch 199...

Valid 092029Z - 092200Z

The severe weather threat for Severe Thunderstorm Watch 199 continues.

SUMMARY...A risk for isolated severe thunderstorms continues across portions of southeast CO, and could spread farther east/northeast later this afternoon. However, present indications are that additional Watch issuance will be unlikely.

DISCUSSION...Loosely organized convective clusters across southeast CO continue to be supported by recycled low-level moisture in a modest upslope-flow regime. Thus far, updrafts have been rather

limited with respect to strength and longevity -- yielding an overall dearth of severe occurrences. However, for subsequent convective inflow, surface dewpoints in the lower 50s beneath moderate mid-level lapse rates are supporting sufficient buoyancy well east of the CO Front Range across the High Plains for some -- albeit modest and isolated -- severe risk.

Diabatic surface heating and related steepened low-level lapse rates have been most substantial across southern parts of extreme eastern CO into adjacent KS. Ongoing convection will likely develop into these areas through late afternoon, perhaps exhibiting slightly more organization if cold-pool consolidation were to occur amid 30-40 kt of effective shear. Isolated occurrences of severe hail/wind will remain possible, with perhaps a slight uptick in severe-wind potential if a more organized convective system were to evolve. However, given the limited degree of low-level moisture and related limited buoyancy, a more substantial severe risk is not presently expected to extend outside of northern parts of Watch 199.

Farther north, into northeast CO, widespread cloud coverage has muted diurnal heating and related buoyancy. These factors should tend to mitigate the severe risk.

..Cohen.. 05/09/2017

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

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