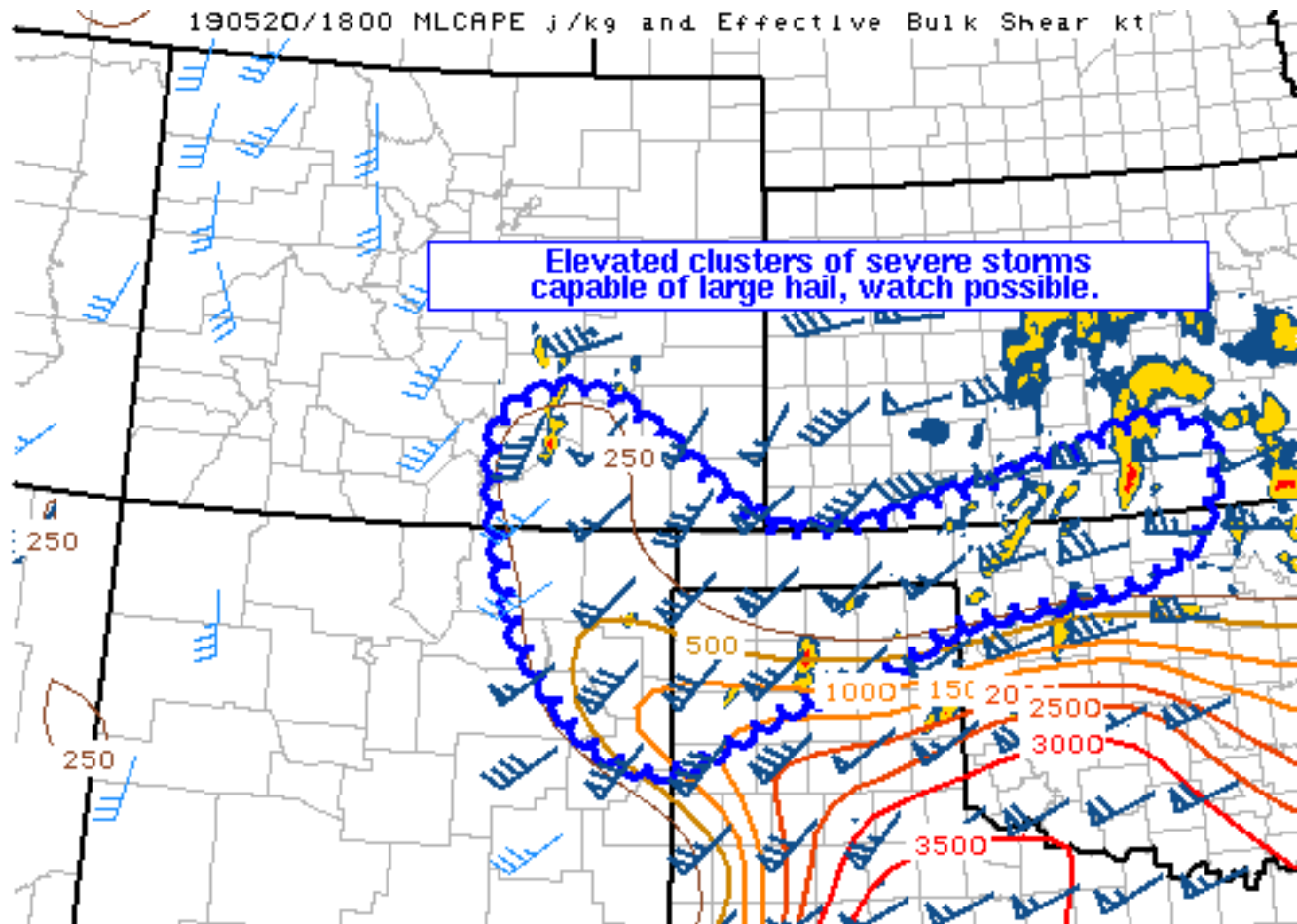


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Mesoscale Discussion 704

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Mesoscale Discussion 0704

NWS Storm Prediction Center Norman OK

0215 PM CDT Mon May 20 2019

Areas affected...Texas/Oklahoma Panhandle...Northeast New Mexico...and Southeast Colorado

Concerning...Severe potential...Watch possible

Valid 201915Z - 202045Z

Probability of Watch Issuance...40 percent

SUMMARY...Elevated clusters of storms should continue to develop, posing a risk for mainly large hail. Watch possible.

DISCUSSION...Strong to severe storms continue to develop to the north/cool side of a convectively reinforced boundary situated across the top two tiers of counties in the Texas Panhandle. Other storms are developing along an instability axis oriented toward the northwest into portions of southeast Colorado and northeast New



Mexico. MUCAPE across this region remains somewhat limited, ranging from near 1500 J/kg across the OK/TX Panhandles to near 250-500 J/kg farther northwest. Additionally, the 19z AMA observed sounding indicates a straight-line hodograph, increasing to 80 kt of southwesterly flow at 400 mb.

As low-level warm/moist advection continues, further destabilization is expected this afternoon. Given the strong deep-layer shear (effective bulk shear 50-60 kt), storms in this region should be strong to severe, posing mainly a large hail threat and perhaps some strong/gusty outflow winds. Should this evolution unfold and storms continue to expand in coverage/severity, a watch may be needed.

..Karstens/Hart.. 05/20/2019

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

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