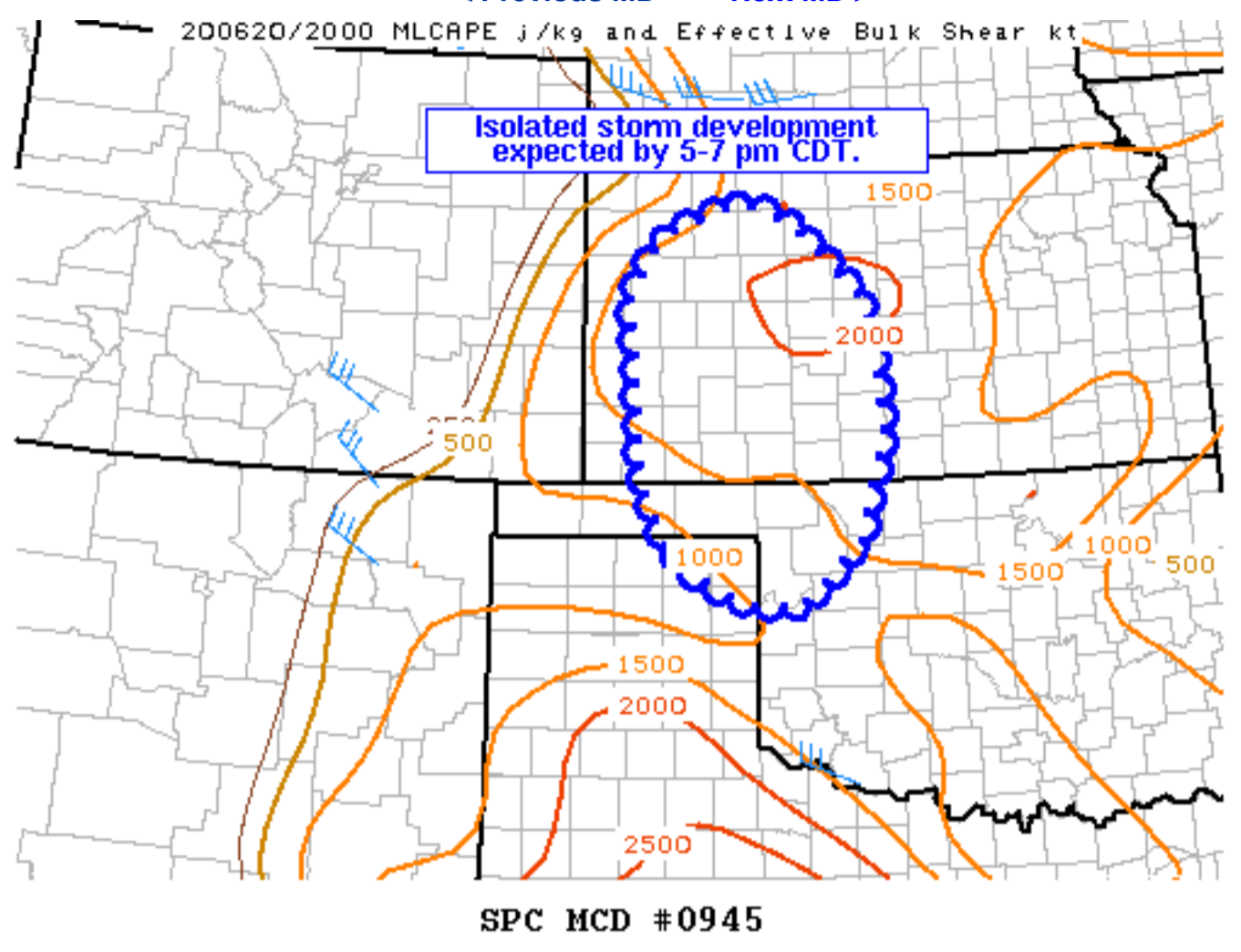


Local forecast by  
"City, St" or "ZIP"


## Mesoscale Discussion 945

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Mesoscale Discussion 0945  
NWS Storm Prediction Center Norman OK  
0348 PM CDT Sat Jun 20 2020

Areas affected...portions of the OK/TX Panhandle and northwest OK into western KS

Concerning...Severe potential...Watch unlikely

Valid 202048Z - 202245Z

Probability of Watch Issuance...20 percent

SUMMARY...Isolated storms should develop between 5-7 pm CDT. Hail and locally strong gusts will be possible with these storms.

DISCUSSION...An area of agitated/deepening CU continues to develop across parts of the OK/TX Panhandles/northwest OK into western KS this afternoon. Although capping has largely been eroded by strong heating, subsidence on the back side of an MCV and midlevel shortwave impulse has likely suppressed further development for much of the day. Nevertheless, surface dewpoints in the upper 50s to low 60s and temperatures in the mid/upper 80s are aiding in MLCAPE values between 1000-2000 J/kg. A relative minimum in midlevel lapse rates is noted in 20z mesoanalysis, in an otherwise plume of steeper lapse rates. Some additional improvement in midlevel lapse rates should occur toward evening as a shortwave impulse and associated cooling spreads over the northern and central Plains, while also providing stronger ascent over the region.

At the same time, effective shear will increase over the next few hours and profiles will generally favor clusters and possibly a supercell or two. Steep low level lapse rates and inverted-v sub-cloud layer thermodynamic profiles suggest locally damaging wind will be possible with the strongest cells, in addition to isolated hail. While timing of convective initiation remains a bit uncertain, overall observational trends and CAMs guidance suggest storms should develop between 22-00z. Storm coverage should remain rather isolated, and a watch is not expected at this time, though trends will be monitored.

..Leitman/Guyer.. 06/20/2020

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

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