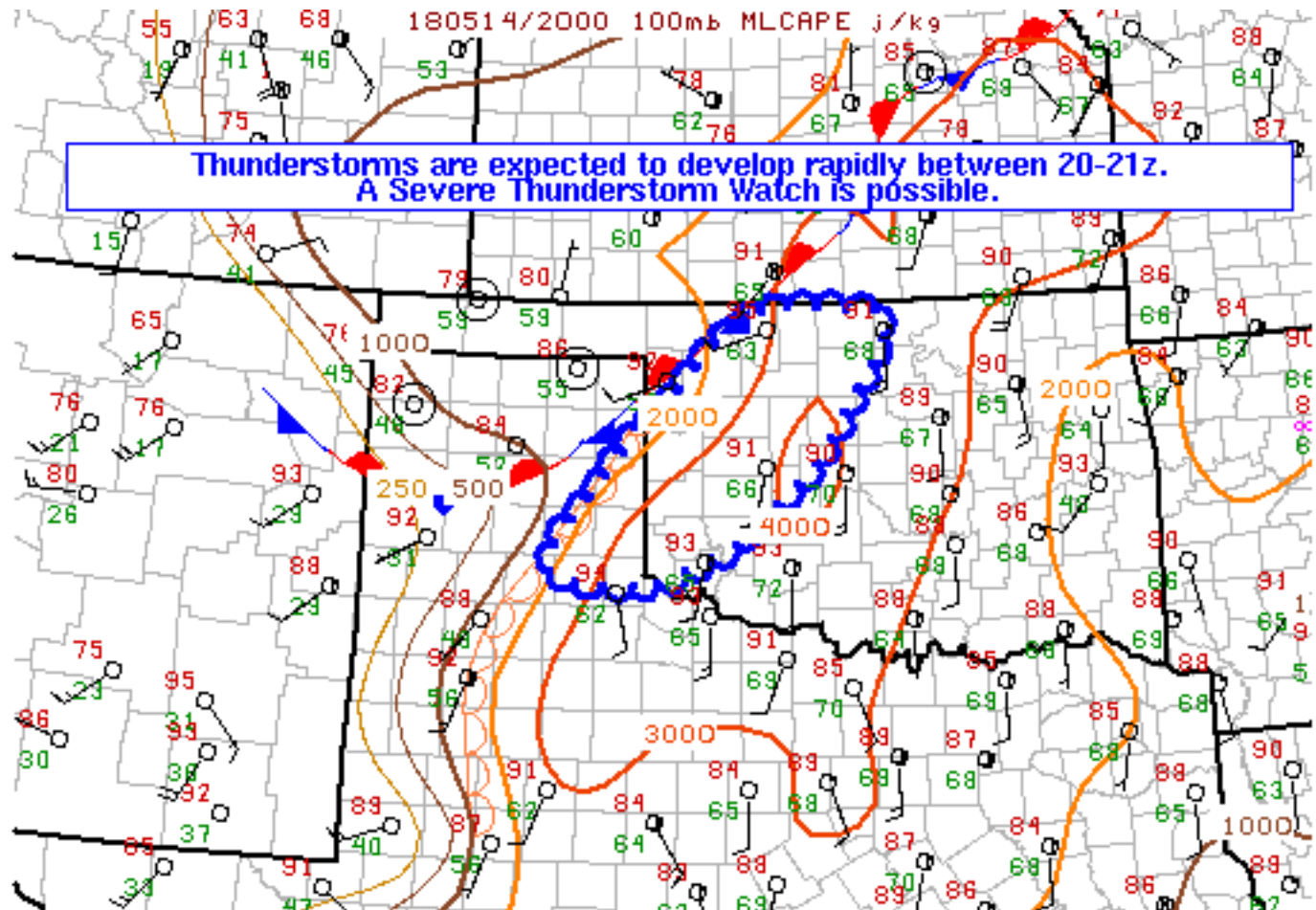


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## Mesoscale Discussion 414

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SPC MCD #0414

Mesoscale Discussion 0414

NWS Storm Prediction Center Norman OK

0310 PM CDT Mon May 14 2018

Areas affected...Portions of western and northern Oklahoma and the southeast Texas panhandle

Concerning...Severe potential...Watch possible

Valid 142010Z - 142215Z

Probability of Watch Issuance...60 percent

SUMMARY...Thunderstorms are expected to rapidly develop over the next two hours. A Severe Thunderstorm Watch may be needed.

DISCUSSION...Strong heating and boundary-layer dewpoints in the low 60s over western Oklahoma and upper-60s to near 70 over west-central and northern Oklahoma, has eroded most of the convective inhibition over the area, as indicated by surface mesoanalyses and deepening boundary-layer cumulus. The cumulus is especially numerous from



Enid northward where convergence has been stronger throughout the early afternoon and temperatures have reached the low 90s.

Moderate to large MLCAPE values of 3000-4000 J/kg and steep low-to-mid-level lapse rates will contribute to a threat for severe wind gusts and severe hail, particularly with the initial storms that develop, which are expected first over the southern and western portions of the area, and from Enid northward. As cold pools from convection over Texas spread northward into western Oklahoma in the southerly/southwesterly flow, additional thunderstorms will develop rapidly over the central portion of the area. The limiting factor for a more organized severe threat continues to be rather weak deep-layer shear, which is smaller than it was yesterday under a similar thermodynamic environment. Nonetheless, storm and severe wind gust/hail coverage is expected to be enough to make a Severe Thunderstorm Watch possible in the next few hours.

..Coniglio/Grams.. 05/14/2018

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

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