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Mesoscale Discussion 591

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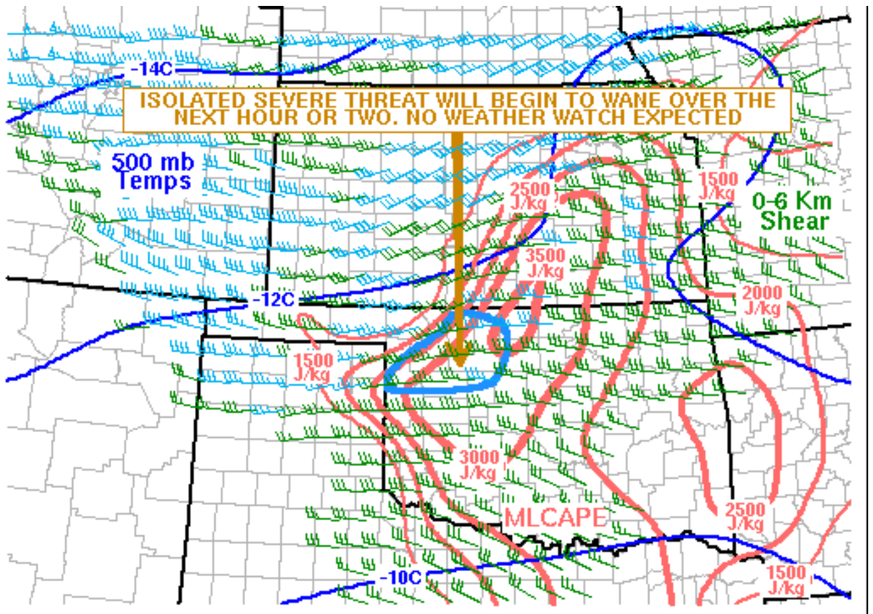

SPC MCD #0591

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Mesoscale Discussion 0591
NWS Storm Prediction Center Norman OK
1004 PM CDT Thu May 14 2020

Areas affected...Northwest Oklahoma

Concerning...Severe potential...Watch unlikely

Valid 150304Z - 150500Z

Probability of Watch Issuance...20 percent

SUMMARY...An isolated severe threat should begin to wane across
northwest Oklahoma over the one to two hours. Isolated large hail
and strong wind gusts will be possible. The threat should be too
short-lived to warrant issuing a watch.

DISCUSSION...The latest surface analysis shows a 1005 mb low over
east-central Kansas with a cold front extending southwestward into
northwestern Oklahoma. Low-level convergence along the front has
resulted in isolated cell initiation this evening from the vicinity
of Gage, Oklahoma to west of Enid, Oklahoma. This convection is
located southwest of a maxima  of instability where MLCAPE is near
3500 J/kg. In addition, RAP forecast soundings in northwest Oklahoma
late this evening have 0-6 km shear in the 30 to 40 kt range with
700 to 500 mb lapse rates near 8.0 C/km. This should be sufficient
for a large hail threat. A few strong wind gusts will also be
possible. Supercells should remain isolated and any hail threat
should be short-lived as a capping inversion redevelops across the
southern Plains.

..Broyles/Hart.. 05/15/2020

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

ATTN...WFO...OUN...

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