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Mesoscale Discussion 1061

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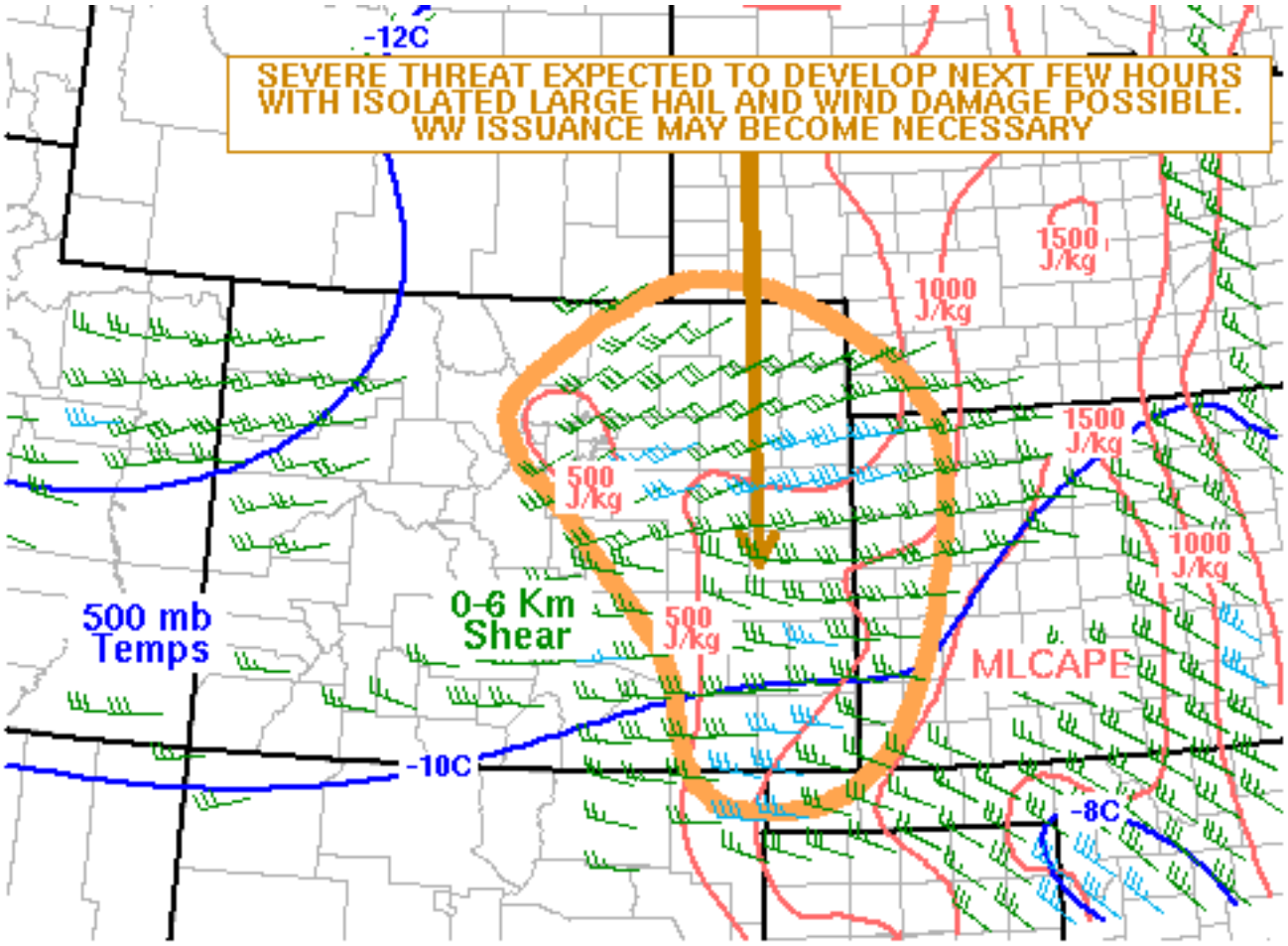

SPC MCD #1061

Mesoscale Discussion 1061
NWS Storm Prediction Center Norman OK
0144 PM CDT Fri Jun 14 2019

Areas affected...Eastern Colorado...Western Kansas...Southwestern Nebraska

Concerning...Severe potential...Watch possible

Valid 141844Z - 142115Z

Probability of Watch Issuance...60 percent

SUMMARY...A severe threat is expected to develop across parts of northern and eastern Colorado into western Kansas this afternoon. Isolated large hail and wind damage will be possible with the stronger thunderstorms. Weather watch issuance may be needed across the region over the next hour or two.

DISCUSSION...The latest surface analysis shows a 1003 mb low over southeast Colorado with a mesoscale surface trough extending

northwest into central Colorado. A cold front is moving southeastward across eastern Colorado with surface dewpoints along and behind the front generally in the lower to mid 40s F. Steep lapse rates are present over the relatively dry airmass with SBCAPE values estimated in the 1000 to 2000 J/kg by the RAP.

Thunderstorms are currently developing in the higher terrain from west of Denver southeastward to the Palmer Divide. This convection will move east-southeastward into the High Plains late this afternoon where forecast soundings show 0-6 km shear in the 30 to 40 kt range. This combined with steep mid-level lapse rates will be sufficient for a severe threat with hail and strong gusty winds possible. As the storms move eastward into far eastern Colorado, where moderate instability will be in place, a more substantial severe threat is likely. The environment should support supercells with isolated large hail and wind damage late this afternoon.

..Broyles/Kerr.. 06/14/2019

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

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