



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

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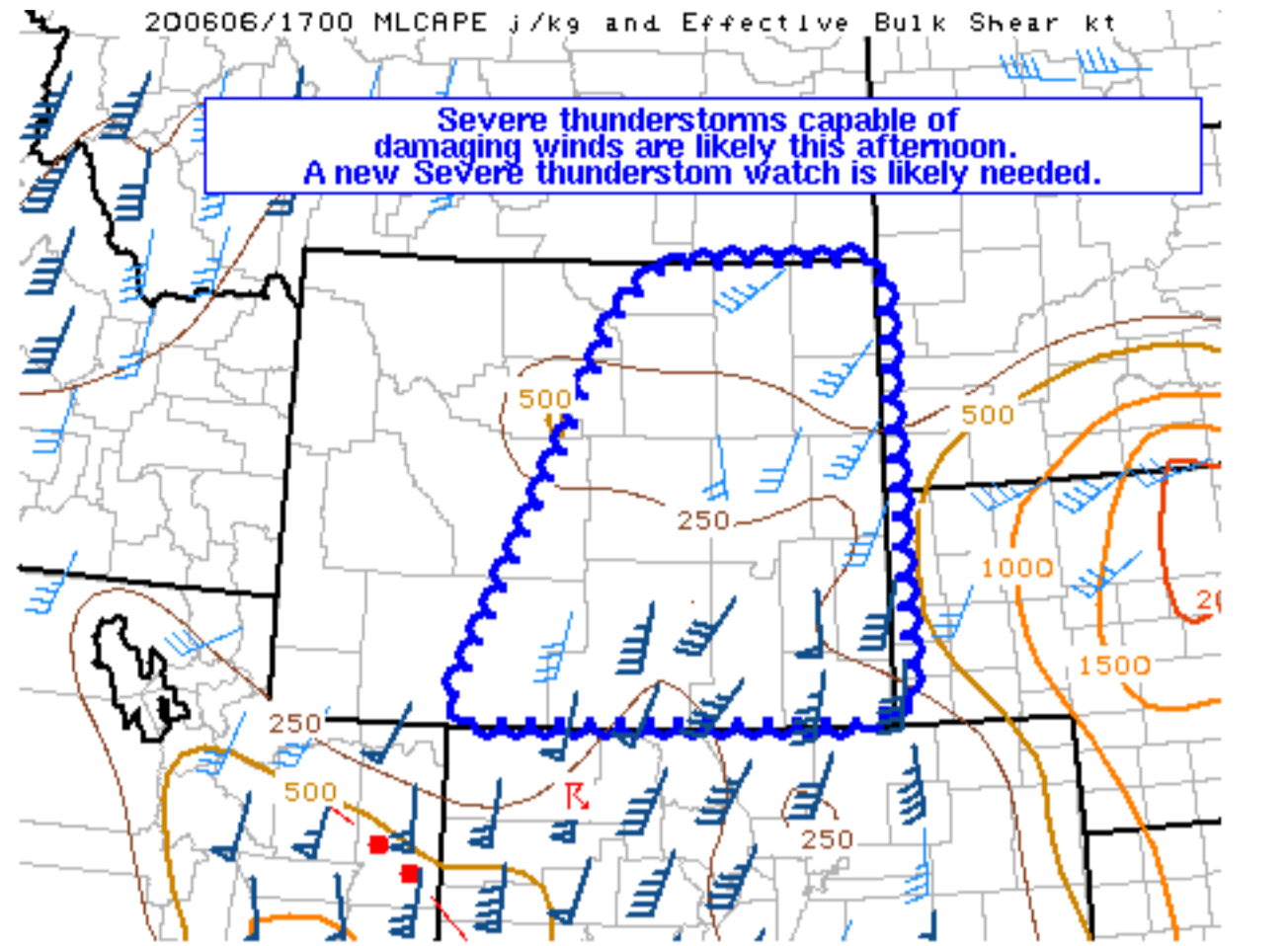
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Mesoscale Discussion 854

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SPC MCD #0854

Mesoscale Discussion 0854
NWS Storm Prediction Center Norman OK
0127 PM CDT Sat Jun 06 2020

Areas affected...central and eastern Wyoming...into far western Nebraska...and South Dakota.

Concerning...Severe potential...Watch likely

Valid 061827Z - 062000Z

Probability of Watch Issuance...95 percent

SUMMARY...A broken squall line is evolving across western and Central Colorado early this afternoon. Storms are expected to continue northeastward with additional development possible ahead of the line. Strong wind gusts (some significant) will be possible. A downstream Severe Thunderstorm Watch is likely.

DISCUSSION...18z mesoanalysis placed a negatively tilted shortwave trough and 80 kt 500 mb speed max across the Four Corners. The wave is expected to shift rapidly northeastward over the next few hours. Strong ascent and some clearing ahead of the main wave is expected to continue to destabilize the lower atmosphere with 250-500 J/kg of MLCAPE ahead of the ongoing storms. Some hi-res guidance also shows the possibility of additional storm development across central and eastern Wyoming. This seems reasonable given warm/moist surface conditions with dewpoints in the 40s/50s F and persistent southeast upslope flow. Given the strong wind profiles with effective shear of 50-70 kt, a mix of supercells and bowing segments with severe wind gusts (possibly significant) are expected, given the report history of the ongoing storms and the continued strong mid-level flow. The strong shear and possible supercell mode may support some isolated hail and tornado cannot be ruled out. A watch is likely by 20z

..Lyons/Thompson.. 06/06/2020

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

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