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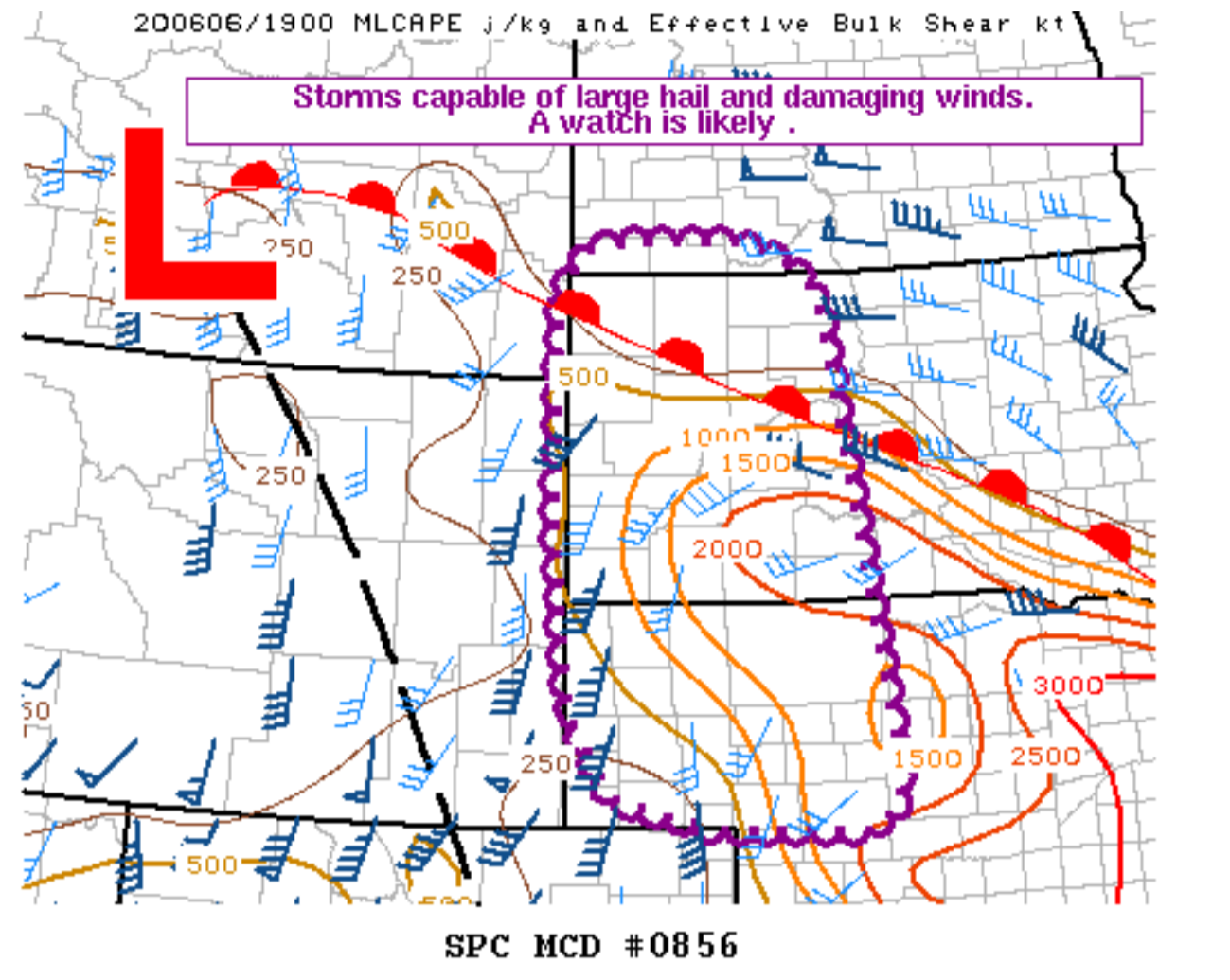
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Mesoscale Discussion 856

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Mesoscale Discussion 0856
 NWS Storm Prediction Center Norman OK
 0333 PM CDT Sat Jun 06 2020

Areas affected...western South Dakota and western Nebraska

Concerning...Severe potential...Watch likely

Valid 062033Z - 062230Z

Probability of Watch Issuance...80 percent

SUMMARY...Severe thunderstorm development seems probable in the next 1 to 2 hours across portions of Nebraska and western south Dakota. Supercells may initially favor a large hail and tornado threat with eventual upscale growth and increasing damaging wind gust potential this evening.

DISCUSSION...Breaks in mid-level cloud cover ahead of a negatively tilted upper low across the Rockies have allowed temperatures to warm into the 80s and 90s F across portions of western Nebraska and South Dakota. Strong surface advection of moisture continues thanks to a 996 mb lee low deepening over eastern Montana. Dewpoints in the mid 60s F are forecast to continue streaming northwestward and interacting with the increasingly warm airmass. Eroding inhibition, increasing MLCAPE of 1000-2000 J/kg, and convection increasing along the Front Range suggests convective initiation is probable in the next few hours along the thermal and moist axes. Regional VWP's show strong deep layer shear of 50-60 kt favoring an initial supercell mode. Steep mid-level lapse rates will support large hail (some significant) and damaging winds. The tornado threat is more uncertain given the propensity for storms to grow upscale rather quickly. However low-level SRH of 200-400 M2/s2 may support a tornado threat with any supercells that can remain discrete.

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

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

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