



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

City, St

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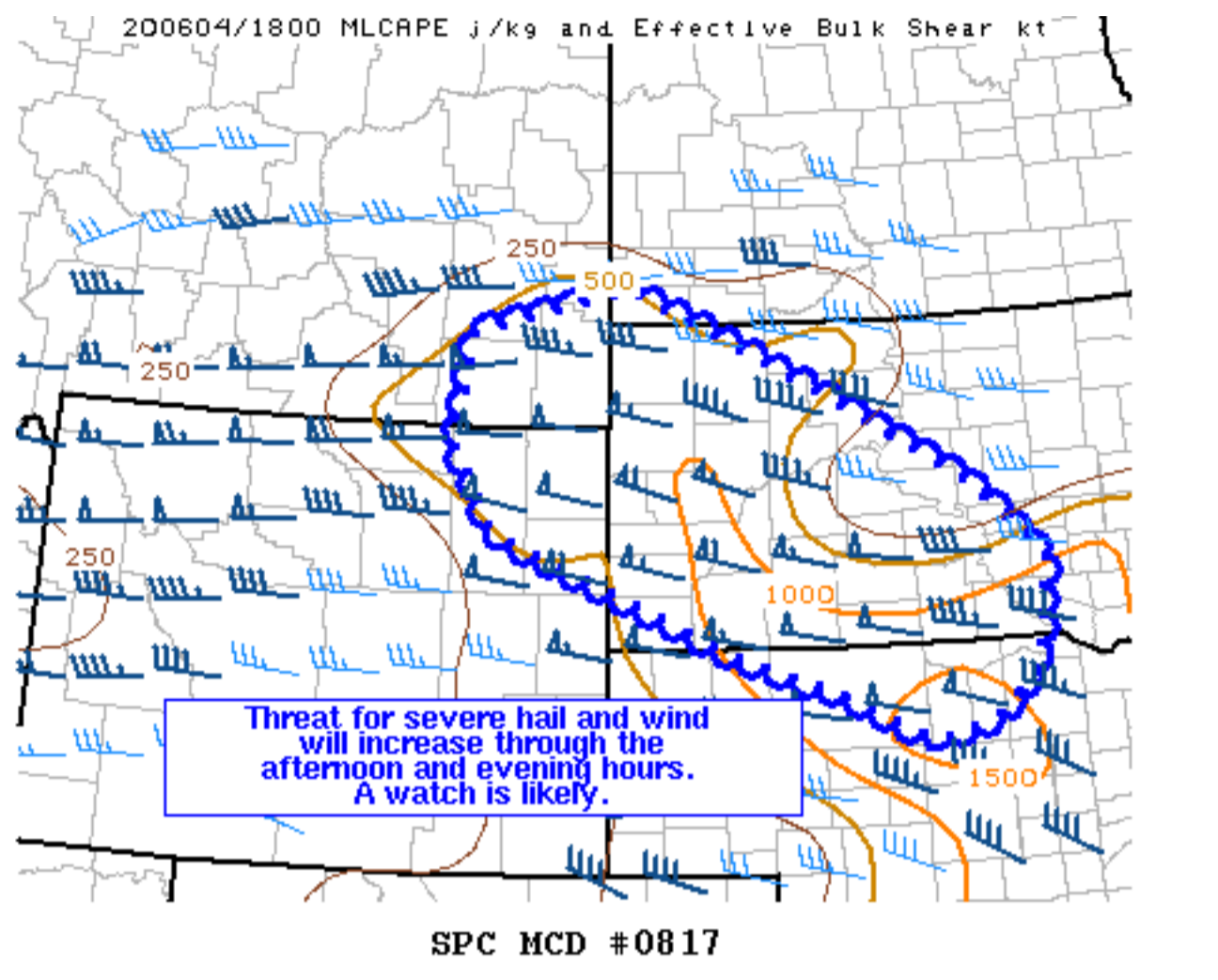
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Mesoscale Discussion 817

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Mesoscale Discussion 0817
NWS Storm Prediction Center Norman OK
0225 PM CDT Thu Jun 04 2020

Areas affected...The Montana/Wyoming/South Dakota tri-state region into north-central Nebraska

Concerning...Severe potential...Watch likely

Valid 041925Z - 042100Z

Probability of Watch Issuance...95 percent

SUMMARY...Additional thunderstorm development is expected in the coming hours across the MT/WY/SD tri-state region. These storms will be capable of strong wind and severe hail as they move towards north-central Nebraska through the evening hours.

DISCUSSION...Recent visible imagery shows signs of increasing vertical development within cumulus fields that are developing off the higher terrain of the Black Hills and along the MT/WY border. Isolated to scattered thunderstorms are expected to develop within this region and propagate to the east/southeast towards south-central SD and north-central NE into the evening hours. 40 to 55 knots of effective bulk shear within this region should compensate for modest, but sufficient, MLCAPE values across much of southwest SD (500-1000 J/kg). Nearly straight hodographs, noted in recent KBIS VWP data as well as RAP forecast soundings, will favor organized splitting storms that will be capable of producing both severe hail and wind. A tornado or two can not be ruled out across southwest to south central SD during the late afternoon/evening hours where 100-150 m2/s2 ESRH is noted in recent RAP mesoanalyses and upper 50s to low 60s dewpoints have been observed at the surface.

..Moore/Grams.. 06/04/2020

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

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