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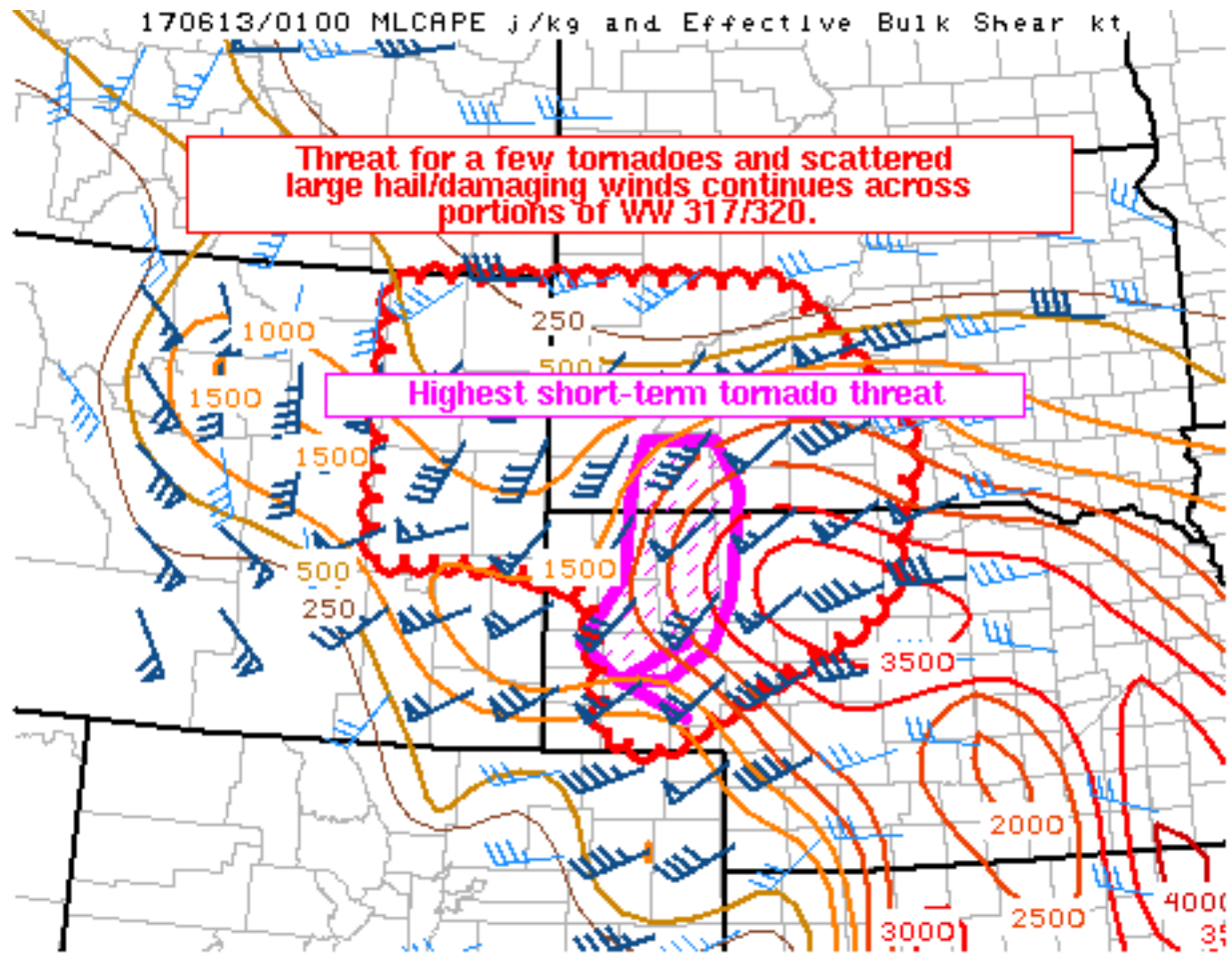
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Mesoscale Discussion 1004

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Mesoscale Discussion 1004

NWS Storm Prediction Center Norman OK

0902 PM CDT Mon Jun 12 2017

Areas affected...Portions of western/central NE...northeastern into east-central WY...and western/central SD

Concerning...Tornado Watch 317...320...

Valid 130202Z - 130300Z

The severe weather threat for Tornado Watch 317, 320 continues.

SUMMARY...A threat for a few tornadoes and scattered large hail/damaging winds continues across valid portions of WW 317/320. Parts of WW 317 have been locally extended in time until 03Z based on latest radar trends.

DISCUSSION...Two semi-discrete supercells continue across western NE as of 02Z. The southernmost storm has had multiple tornado and large hail reports associated with it over the past several hours. A

strongly unstable airmass into central NE/southern SD, where MLCAPE ranges from 2500–3500 J/kg per 01Z mesoanalysis, will very likely support continued severe-caliber storms into the late evening. Strong effective bulk shear values of 50–60+ kt owing to a northeastward- moving upper low over the northern Great Basin will also contribute to robust updraft organization, with all severe hazards remaining possible. A short-term (next hour or two) tornado threat should be maximized across parts of western NE into far southwestern SD with the previously mentioned semi-discrete supercells. Across this area, strongly veering/strengthening low-level winds are contributing to a relative maximum in effective SRH values (300–500+ m²/s²).

Additional convection has recently formed along northern portions of the Laramie Mountains in east-central WY, and this activity may also pose some severe risk, although instability is weaker with northward extent. Current expectations are still for ongoing storms to grow upscale into one or more bowing line segments as they move into north-central NE and western/central SD later this evening. If this were to occur, then damaging winds would likely become the primary severe threat.

..Gleason.. 06/13/2017

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

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