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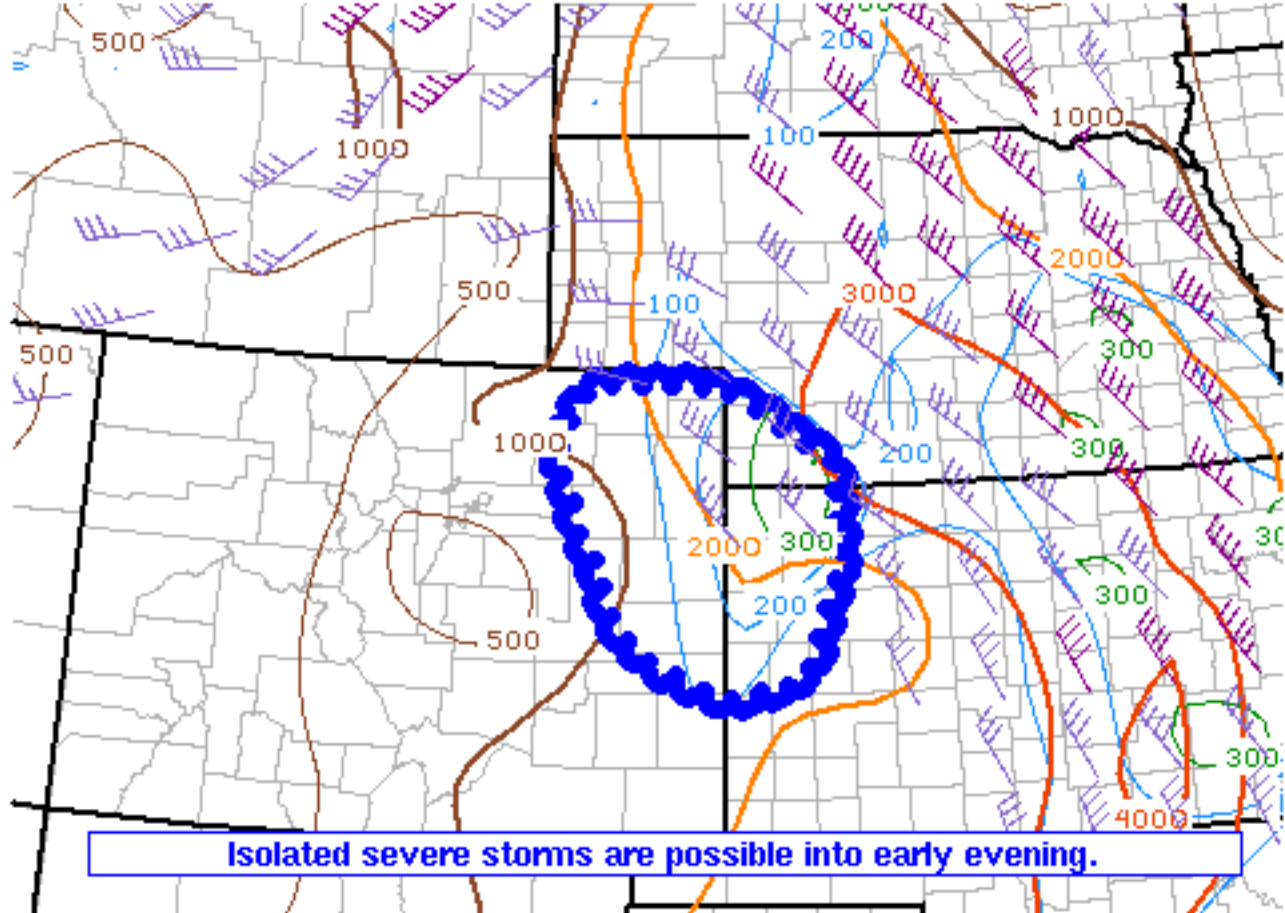
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Mesoscale Discussion 1164

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170627/2000 MUCAPE(warm), SRH(cool), Effective Bulk Shear(purple)



SPC MCD #1164

Mesoscale Discussion 1164

NWS Storm Prediction Center Norman OK

0348 PM CDT Tue Jun 27 2017

Areas affected...Northeast CO...Southwest NE...Western KS

Concerning...Severe potential...Watch possible

Valid 272048Z - 272245Z

Probability of Watch Issuance...40 percent

SUMMARY...Isolated severe thunderstorms are possible into early evening, with a threat of large hail and locally damaging wind. Watch issuance is possible if it appears that multiple severe storms are imminent.

DISCUSSION...A strong/potentially severe thunderstorm has recently developed across eastern CO and is currently moving into Yuma County. Strong heating within a modestly moist boundary layer has allowed for moderate instability to develop, with MLCAPE of

1000-2000 J/kg noted per recent mesoanalysis. While this area is further removed from the stronger flow associated with the vort max moving across WY, backed southeasterly flow at the surface veering to westerly aloft is resulting in effective shear of 30-40 kt and effective SRH of 150-300 m2/s2, sufficient for isolated supercell development with the strongest updrafts, especially across northwest KS into southwest NE.

Steep midlevel lapse rates will support large hail with any rotating cells, while some damaging wind threat will exist given very steep midlevel lapse rates and large temperature/dewpoint spreads. Coverage is uncertain across the MCD area given that the strongest large-scale forcing will remain to the north, but watch issuance is possible later this afternoon if multiple severe storms appear imminent.

..Dean/Hart.. 06/27/2017

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

ATTN...WFO...LBF...DDC...GLD...PUB...BOU...

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