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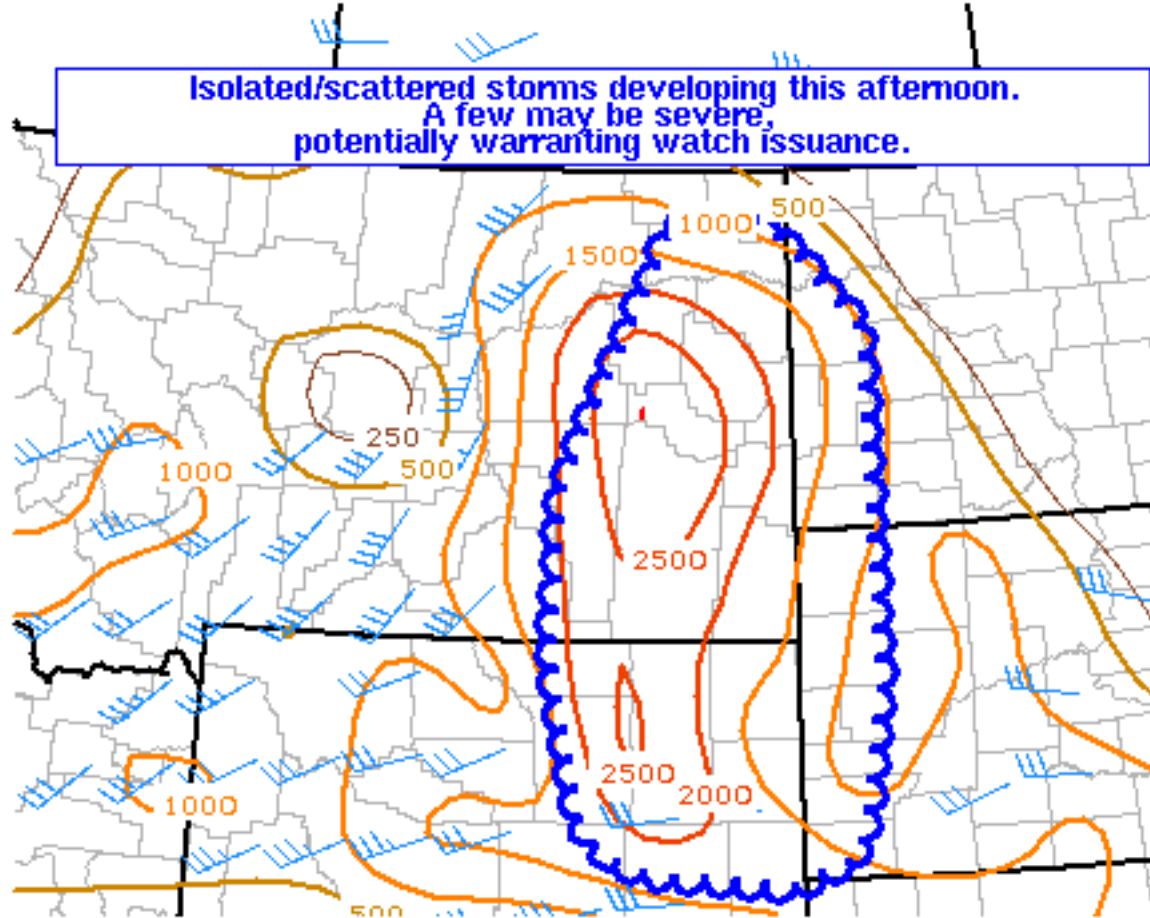
Mesoscale Discussion 664

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180607/1900 MLCAPE j/kg and Effective Bulk Shear kt

Isolated/scattered storms developing this afternoon.
A few may be severe,
potentially warranting watch issuance.



SPC MCD #0664

Mesoscale Discussion 0664

NWS Storm Prediction Center Norman OK

0251 PM CDT Thu Jun 07 2018

Areas affected...Portions of the northern High Plains

Concerning...Severe potential...Watch possible

Valid 071951Z - 072115Z

Probability of Watch Issuance...60 percent

SUMMARY...Scattered thunderstorms are expected to develop across eastern Montana/Wyoming through late afternoon. Some strong/severe storms will be possible, with an attendant threat of damaging winds and large hail. Trends are being monitored for potential watch issuance.

DISCUSSION...One-minute visible imagery highlight several maturing cumulus fields over the region this afternoon, and a few convective towers have been noted recently. Unlike areas farther west (i.e.,

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over the northern Rockies), large-scale ascent here may be more favorable for continued cooling/moistening aloft. Adjusted for regional surface conditions, the 18Z GGW sounding suggests around 2000 J/kg of MLCAPE has materialized, with little, if any, inhibition remaining.

Continued surface confluence over the High Plains is expected to yield isolated to scattered convection within the next 1-3 hours. Although deep-layer winds are not particularly organized, some veering with height and approximately 20-30 kt of mid-level flow may support organized multicell and brief supercell structures, capable of damaging winds and large hail. Over time, steep low-level lapse rates will likely encourage strong outflow/upscale growth, with the threat transitioning to primarily damaging winds as cells accelerate east towards the Dakotas. Convective trends are being monitored for possible watch issuance by late afternoon.

..Picca/Weiss.. 06/07/2018

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

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