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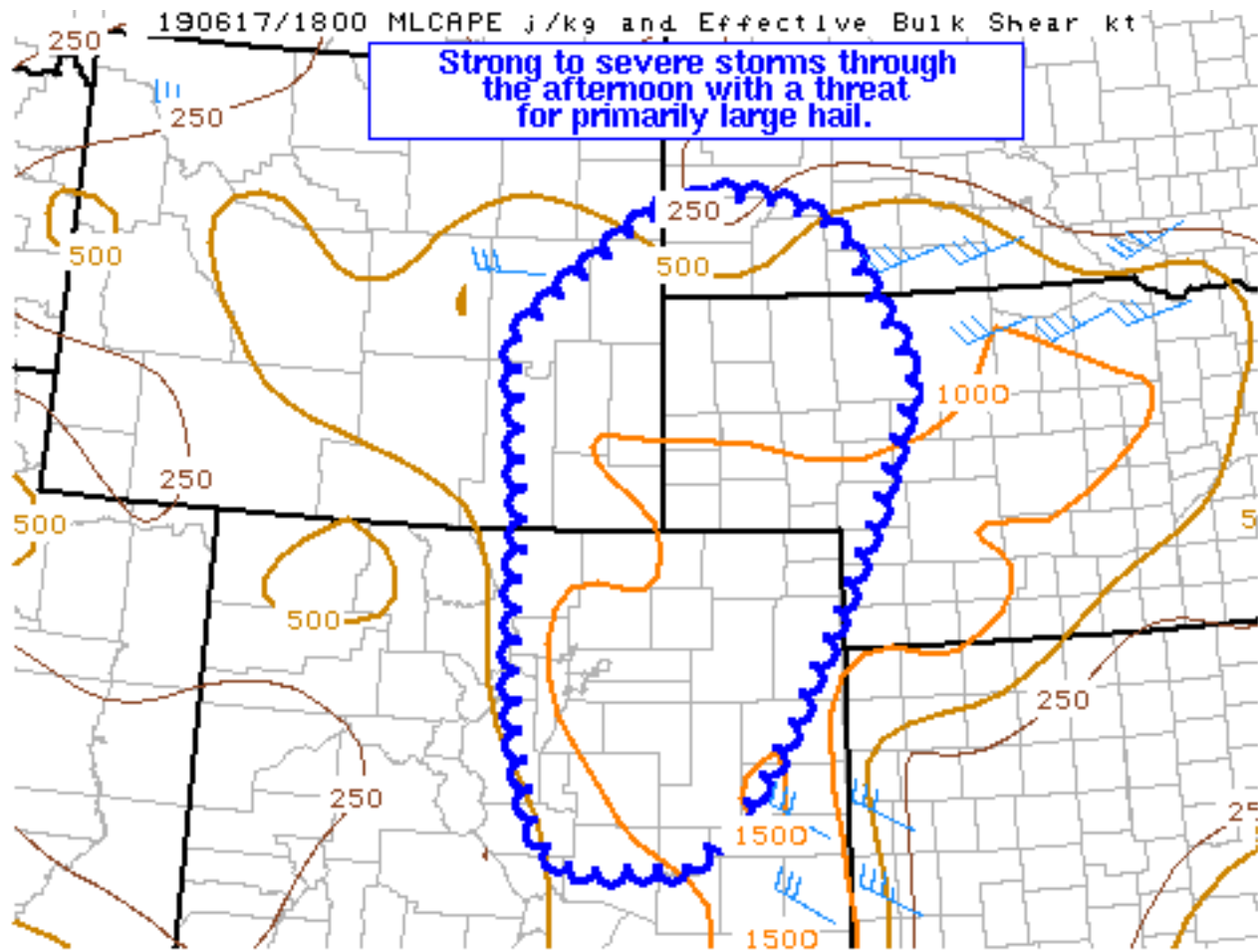
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Mesoscale Discussion 1104

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SPC MCD #1104

Mesoscale Discussion 1104

NWS Storm Prediction Center Norman OK

0104 PM CDT Mon Jun 17 2019

Areas affected...Southeast Wyoming...Southwest South Dakota...the
Nebraska Panhandle...and northeastern Colorado

Concerning...Severe potential...Watch possible

Valid 171804Z - 171930Z

Probability of Watch Issuance...40 percent

SUMMARY...Strong to severe storms are expected through the afternoon
with a threat for primarily large hail. A severe thunderstorm watch
is possible.

DISCUSSION...Isolated storms have developed from southeast South
Dakota southward across the Front Range of the Rockies in Wyoming
and Colorado. Radar/satellite data suggests that updraft development
is not overly robust at this time. However, surface heating will



continue across this area with MLCAPE increasing to around 1500 J/kg later this afternoon. This greater instability combined with modest effective shear (~25 knots per RAP mesoanalysis and CYS VWP) will support the potential for strong to severe multicell storms. Mid-level lapse rates around 7 to 8 C/km and cool temperatures aloft will support hail as the primary threat. Storm organization is the greatest limiting factor for a watch at this time, but a watch may be needed by later this afternoon.

..Bentley/Guyer.. 06/17/2019

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

ATTN...WFO...LBF...UNR...GLD...PUB...BOU...CYS...

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43030164 42290114 41230160 40270208 39410261 38920297
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