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Mesoscale Discussion 1165

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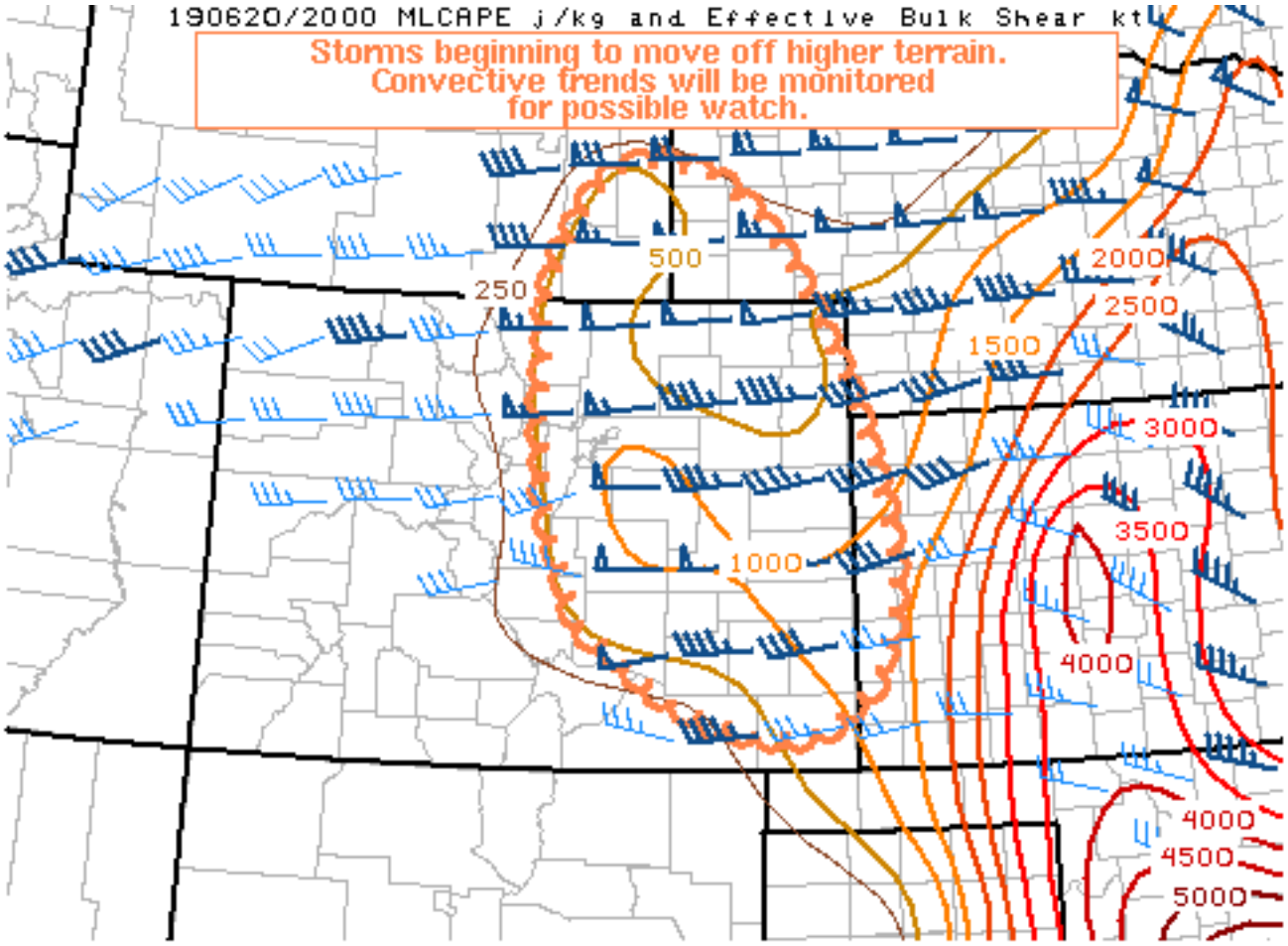

SPC MCD #1165

Mesoscale Discussion 1165
NWS Storm Prediction Center Norman OK
0424 PM CDT Thu Jun 20 2019

Areas affected...Eastern Colorado and far Southeastern Wyoming

Concerning...Severe potential...Watch possible

Valid 202124Z - 203000Z

Probability of Watch Issuance...60 percent

SUMMARY...Thunderstorms developing over the higher terrain are beginning to move eastward onto the plains. Convective trends will be monitored regarding the need for a possible watch.

DISCUSSION...Despite modest low-level moisture across Colorado, strong heating has led to destabilization and thunderstorm development over the higher terrain. Westerly midlevel flow around 30-40 knots (per area VWPs) is promoting eastward movement of these high-based thunderstorms toward the plains. Given the low-level

easterly upslope component of the flow, deep-layer shear (over 40 knots) will be sufficient for organized storm structures and a damaging wind and hail threat. While limited moisture/instability may hinder storm strength/severity initially, as the storms move eastward into better moisture, the intensity of storms are expected to increase. Furthermore, storm cold pool mergers and an increasing low-level jet this evening should promote upscale growth with time, enhancing severe wind potential. Convective trends will be monitored for the possibility of a watch.

..Jirak/Hart.. 06/20/2019

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

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

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42180420 42080358 41690300 40970246 40260204 39670180
39030163 38430157 37860174 37560202 37300250 37310314
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