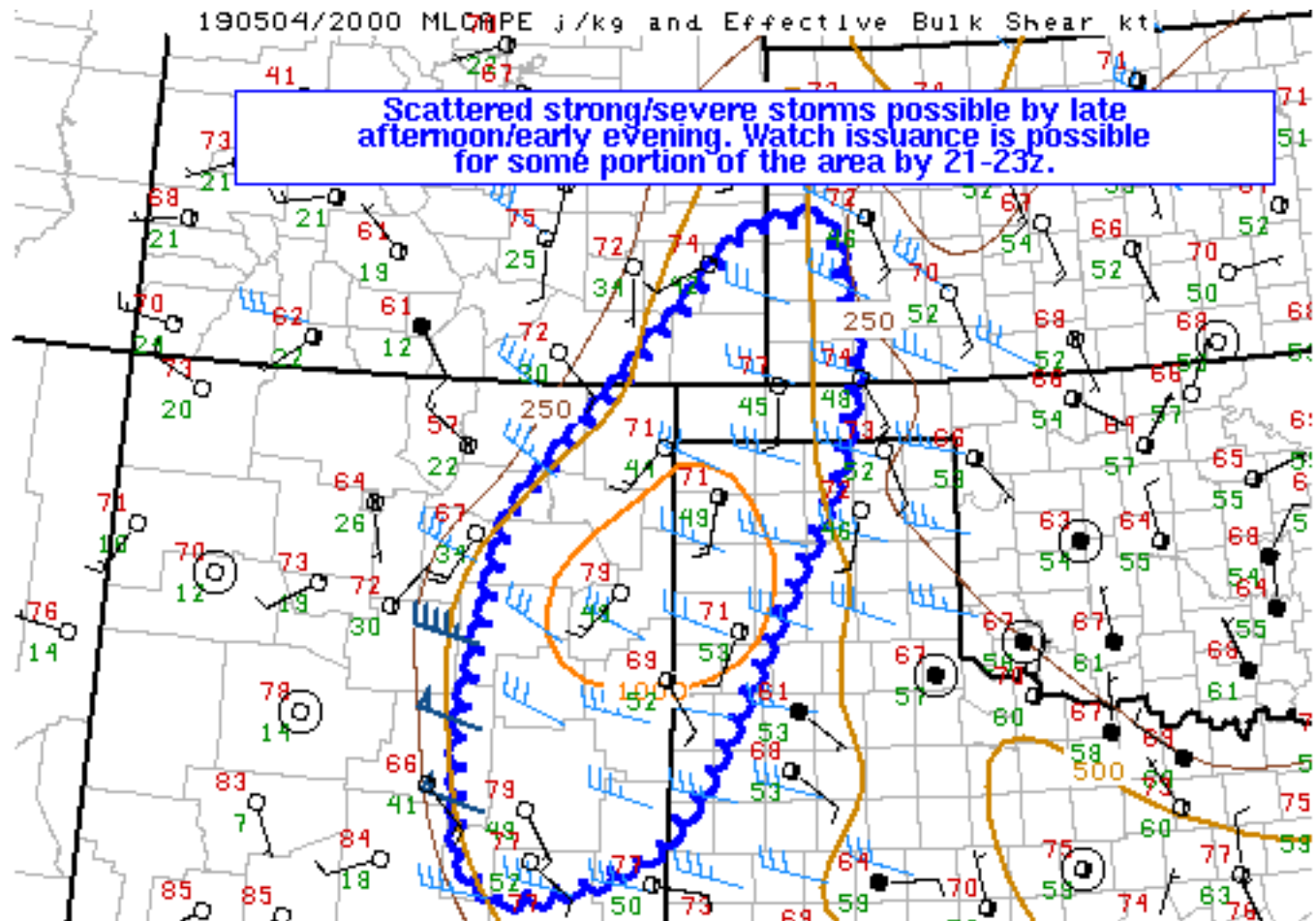


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## Mesoscale Discussion 535

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SPC MCD #0535

Mesoscale Discussion 0535

NWS Storm Prediction Center Norman OK

0331 PM CDT Sat May 04 2019

Areas affected...Eastern NM...Southeast CO...Southwest KS...OK/TX Panhandles

Concerning...Severe potential...Watch possible

Valid 042031Z - 042230Z

Probability of Watch Issuance...40 percent

SUMMARY...Widely scattered severe thunderstorms are possible later this afternoon into the early evening. While the coverage of severe storms remains uncertain, watch issuance is possible for some portion of the area by 21-23z.

DISCUSSION...Thunderstorms are ongoing across southeast CO at 2030Z, with other convection developing across the higher terrain across NM. A gradual increase in thunderstorm coverage is expected with



time through the rest of the afternoon, potentially aided somewhat by a weak midlevel wave emerging from the High Plains. Steep midlevel lapse rates and sufficient low-level moisture should allow MLCAPE to increase into the 1000-1500 J/kg range by late afternoon, with effective shear of 35-45 kt supportive of organized structures, including a few supercells.

The greatest short-term risk (prior to 21Z) should be with the ongoing convection across southeast CO/southwest KS, though the environment is not as favorable that far north. Further south, CAM solutions generally suggest that initial convection along the high terrain may weaken as it moves east, but additional initiation (within a better environment) is possible further east after 22Z, within a weakly confluent regime where boundary-layer moisture is more favorable. The eventual coverage of severe storms across this area remains uncertain, but due to the potential for at least widely scattered supercells, watch issuance is possible within the 21-23Z timeframe.

..Dean/Guyer.. 05/04/2019

...Please see [www.spc.noaa.gov](http://www.spc.noaa.gov) for graphic product...

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