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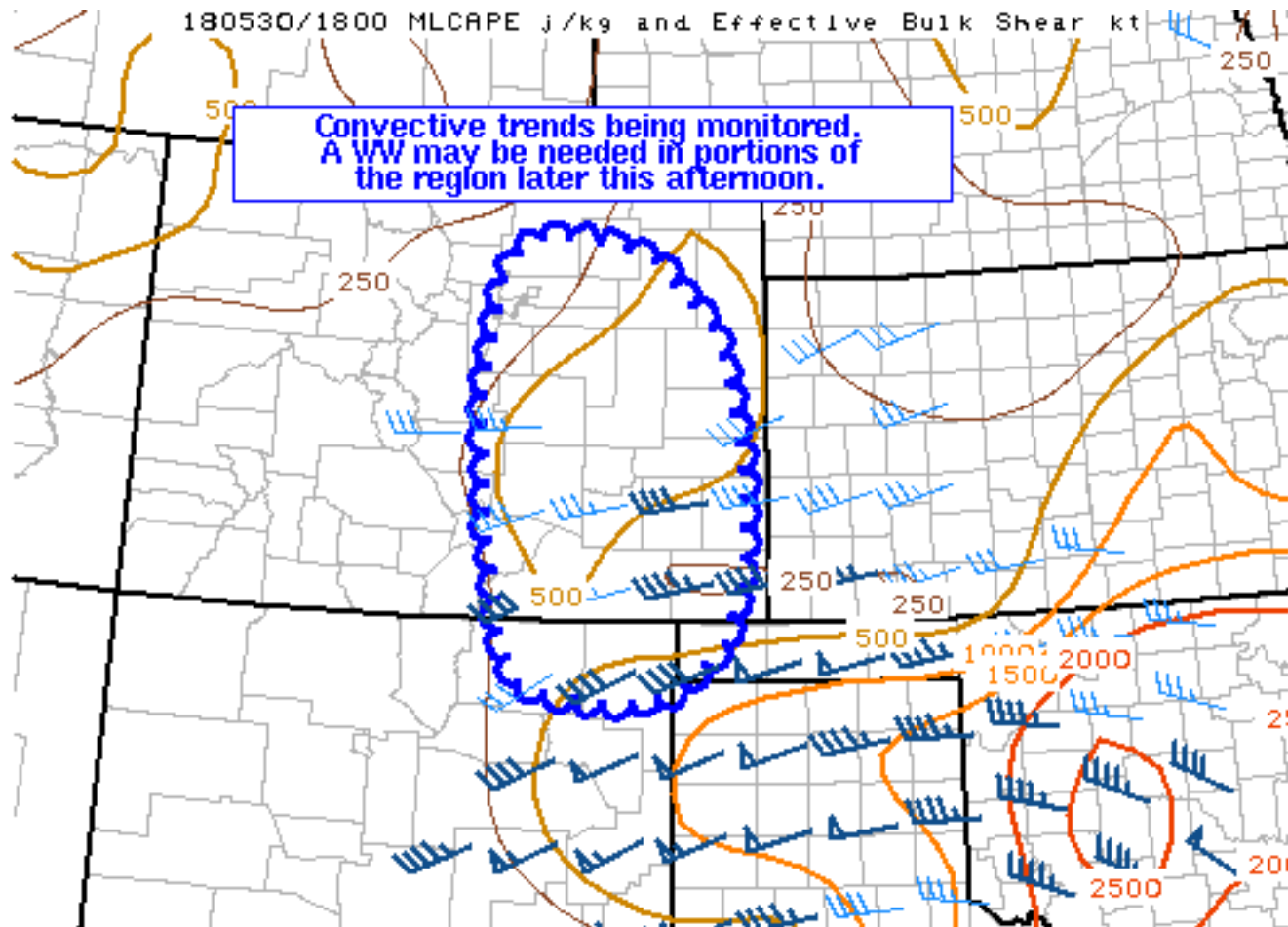
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SPC MCD #0575

Mesoscale Discussion 0575

NWS Storm Prediction Center Norman OK

0225 PM CDT Wed May 30 2018

Areas affected...Eastern Colorado...Far northeastern New Mexico

Concerning...Severe potential...Watch possible

Valid 301925Z - 302130Z

Probability of Watch Issuance...40 percent

SUMMARY...Isolated storms are developing across the region, with more widespread coverage expected. A WW may be necessary sometime later this afternoon, especially for southeast Colorado and far northeast New Mexico.

DISCUSSION...Isolated convection has recently initiated off the higher terrain of the Colorado Front Range, with further intensification and greater areal coverage expected. Surface dewpoints have been slowly increasing into the lower 50s F across

the region over the past few hours, beneath relatively steep lapse rates within a deep layer of the atmosphere (i.e 7.5-8.6 C/km from 1-6km). As such, modest instability (approximately 500 J/kg) is present across the area and is expected to increase throughout the afternoon in tandem with the diurnal cycle.

While 35-45 kts of bulk shear supports some storm organization, particularly in southern Colorado, meager low-level shear suggests that most storms will become outflow dominant, especially in northern regions of the discussion area. As convective coverage gradually increases, some upscale growth in the form of linear clusters should occur (as suggested by recent high-resolution model guidance). One or more MCSs may be possible, especially in southeastern Colorado into far northeast New Mexico, where stronger mid-level flow and bulk shear are currently in place.

As such, a severe thunderstorm watch may eventually be needed (particularly in southeastern Colorado/northeast New Mexico) pending convective trends.

..Squitieri/Cook/Weiss.. 05/30/2018

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

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