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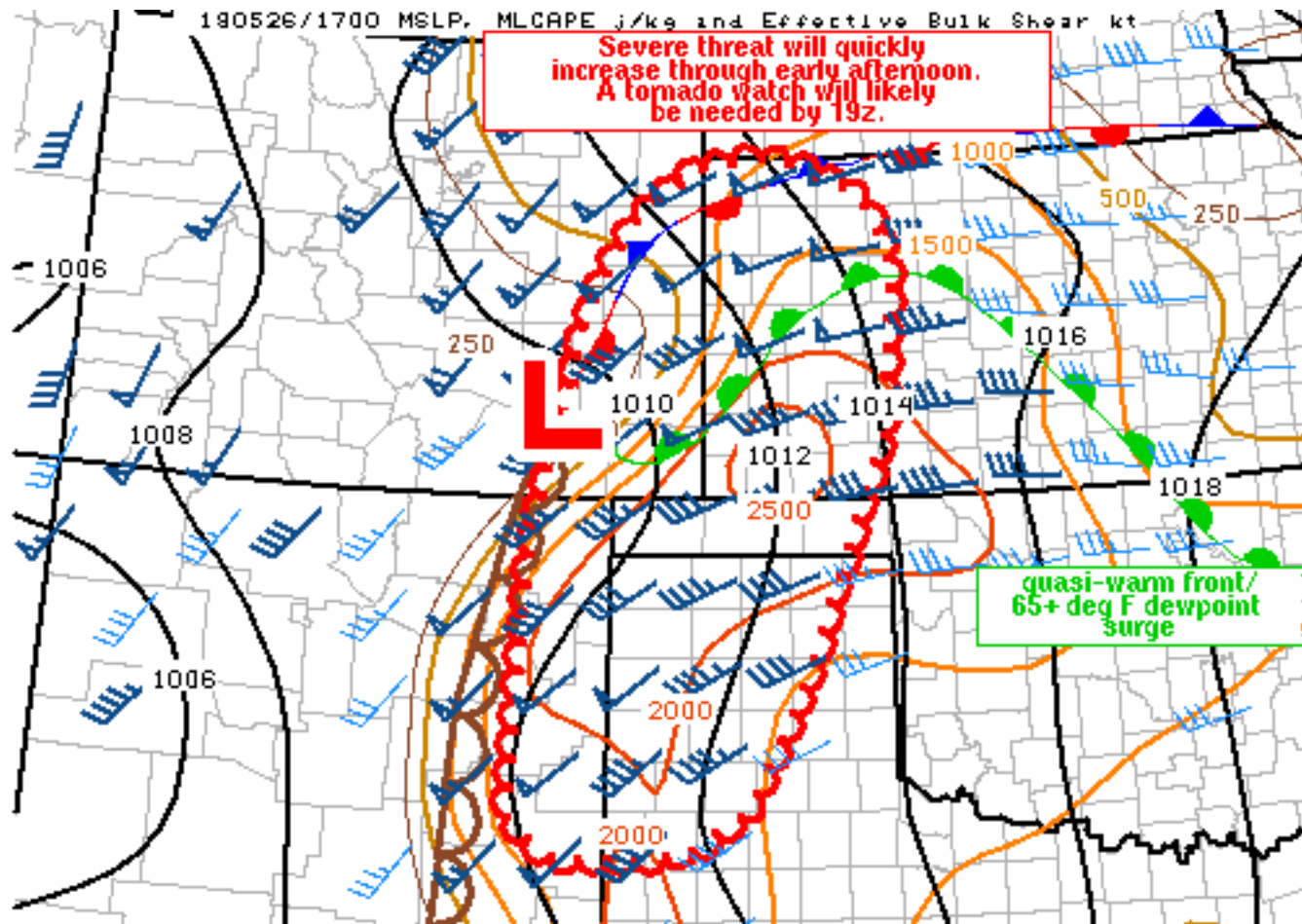
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Mesoscale Discussion 810

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SPC MCD #0810

Mesoscale Discussion 0810

NWS Storm Prediction Center Norman OK

1219 PM CDT Sun May 26 2019

Areas affected...portions of eastern CO...northeast NM...western KS and the OK/TX Panhandle

Concerning...Severe potential...Tornado Watch likely

Valid 261719Z - 261915Z

Probability of Watch Issuance...95 percent

SUMMARY...The severe threat will steadily increase through early afternoon across the central and southern High Plains. A tornado watch will likely be needed in the next couple of hours.

DISCUSSION...Dewpoints have been increasing (around 2-4 degrees F in the last 3 hours) with northward extent through the morning hours, with mid 60s F dewpoint now as far north southwest KS and as far west as the NM/TX border. A quasi-warm front/moisture gradient will



continue to lift northward across eastern CO and KS through the afternoon and the dryline extending south/southwest across eastern NM into far west TX will mix eastward toward the NM/TX border. Further north, a station boundary arced northeastward from a low over southeast CO into northwest KS and southern NE. This should become the effective warm front later this afternoon as the lee cyclone strengthens and moisture continue to surge northward amidst pockets of stronger insolation in broken cloudiness across the region.

Latest water vapor imagery indicates increasing ascent is now moving into the southern Rockies vicinity as some weak midlevel convection has developed in the vicinity of the dryline from southeast NM into southeast CO. 17z mesoanalysis indicates SBCAPE as high as 3000-4000 J/kg from northeast NM into southwest KS with only weak inhibition. However, midlevel capping will require additional heating and the early convection is not expected to pose a threat in the short term. By around 19-20z, convective initiation is expected in the vicinity of the triple point and southward along the dryline.

Forecast soundings show somewhat modest low level shear initially, with more long/straight hodographs, which would favor supercells capable of very large hail. As the lee cyclone deepens, larger curved hodographs develop, leading to an increasing tornado threat from late afternoon into early evening. Very steep lapse rates will and strong vertical shear will continue to support a threat for large hail into tonight. As storms shift east off of the dryline, some upscale growth into bowing segments is expected, with an increase in damaging wind potential as this transition occurs. With convective initiation anticipated by 20z, a tornado watch will likely be need in the next 1-2 hours.

..Leitman/Thompson.. 05/26/2019

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

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