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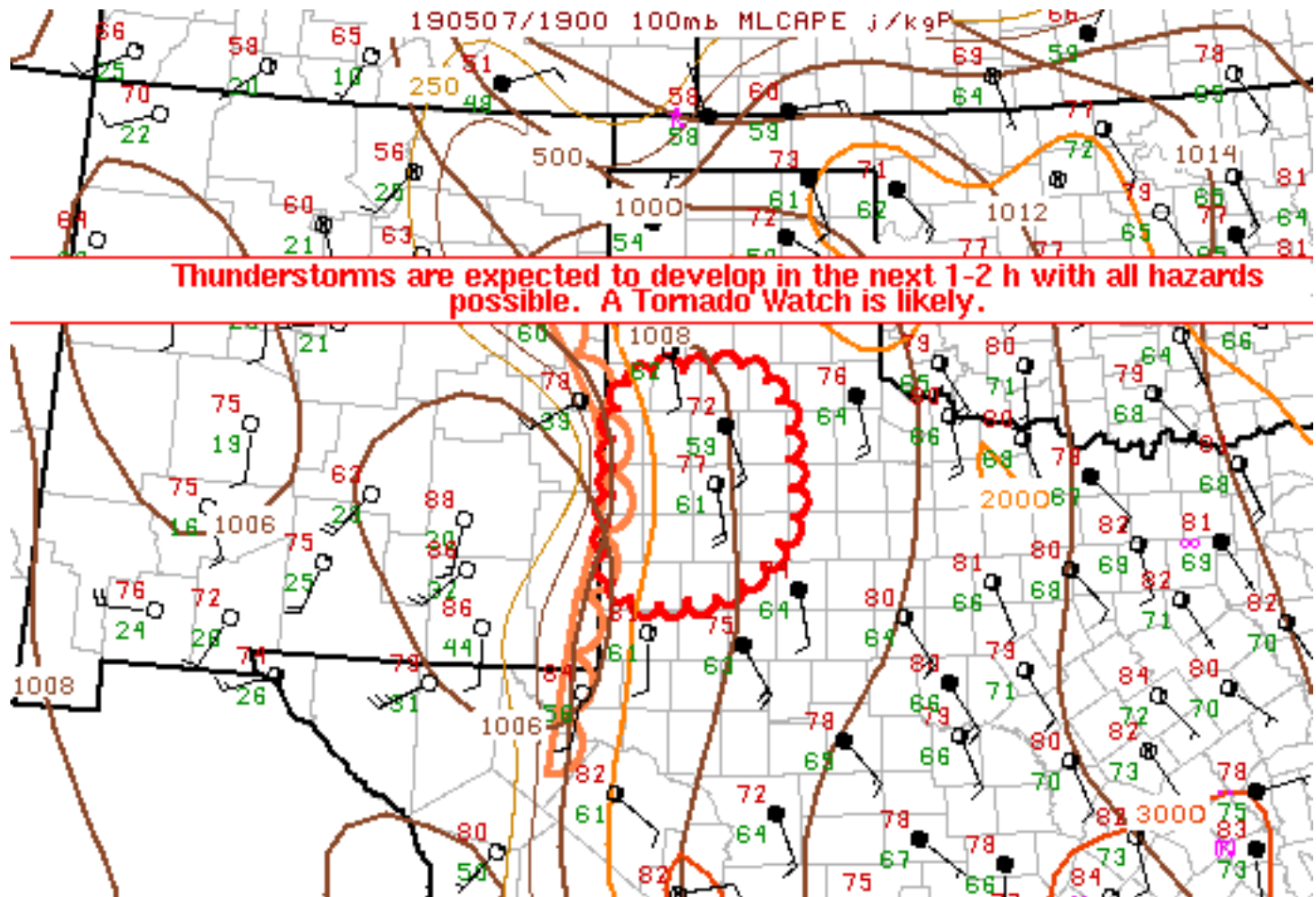
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Mesoscale Discussion 571

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SPC MCD #0571

Mesoscale Discussion 0571
 NWS Storm Prediction Center Norman OK
 0222 PM CDT Tue May 07 2019

Areas affected...Portions of west Texas

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

Valid 071922Z - 072045Z

Probability of Watch Issuance...80 percent

SUMMARY...Thunderstorms are expected to develop in the next 1-2 hours. A Tornado Watch is likely.

DISCUSSION...Cumulus is developing to the east of a slowly-advancing dryline aided by forcing for ascent in the left exit region of an approaching upper jet. Modifying RAP short-term forecast soundings for current surface conditions suggests most of the MLCIN has eroded over the area with 2000-3000 J/kg of MLCAPE. Therefore, despite some tempering of the surface heating from a thin layer of cirrus



overspreading the area, widely-scattered to scattered thunderstorms are expected to develop in the next hour.

Although deep-layer shear has been marginal for supercells (25-35 kt) through early afternoon, it has increased to 35-45 kt the last hour with the strengthening mid-upper flow. Given the moderate-to-strong instability and steep mid-level lapse rates, thunderstorms should become severe rather quickly, with supercell modes dominant initially. Somewhat veered low-level near-surface winds in the 10-15 kt range is limiting low-level shear, and the tornado potential, at the moment. Further limited tornado potential is some weakness in the 850-700 mb flow seen in forecast soundings through early evening. However, temperature-dewpoint spreads holding in the 12-16 deg C range and strengthening/backing 500-1000 m AGL winds in the next few hours should increase the tornado threat somewhat by 21-22z. A Tornado Watch will likely be needed in the next 1-2 hours.

..Coniglio/Guyer.. 05/07/2019

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

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