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Mesoscale Discussion 591

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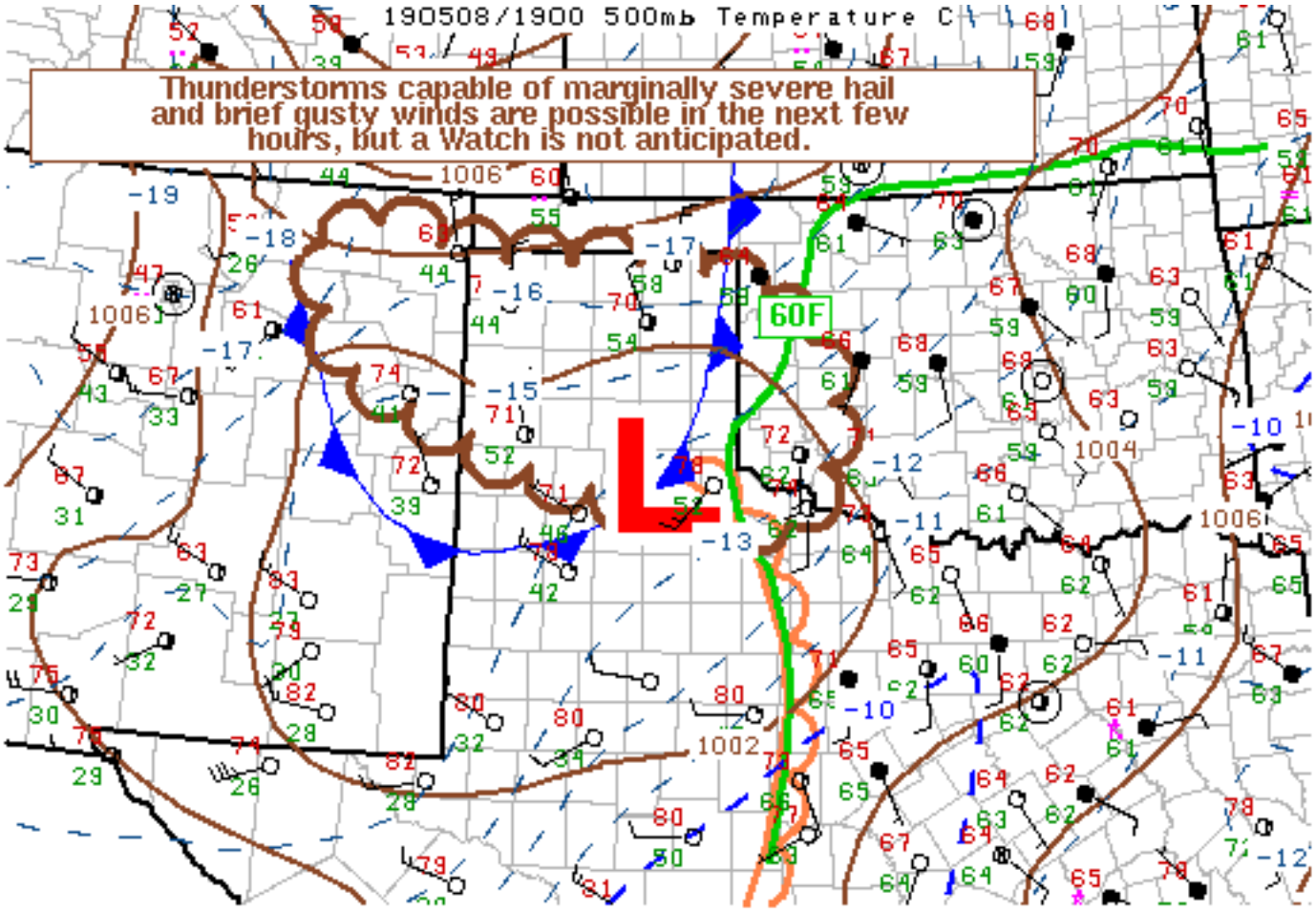

SPC MCD #0591

Mesoscale Discussion 0591
NWS Storm Prediction Center Norman OK
0347 PM CDT Wed May 08 2019

Areas affected...Portions of eastern NM...Texas panhandle...and southwest Oklahoma

Concerning...Severe potential...Watch unlikely

Valid 082047Z - 082245Z

Probability of Watch Issuance...20 percent

SUMMARY...Widely-scattered thunderstorms capable of marginally severe hail and brief gusty winds are expected from mid afternoon to early evening, but the coverage and intensity of the threat is currently expected to remain low enough to preclude a Watch.

DISCUSSION...The strong upper low over western Kansas is forcing a cold front into the Texas panhandle and NM high plains. Cold mid-level temperatures combined with strong diurnal heating is

contributing to cumulus development over much of this area, with a few storms now developing over the Raton Mesa and over the Guymon area. Storms will gradually strengthen in this post-frontal airmass, and mid-level lapse rates that have remained somewhat steep should support at least a marginal severe hail threat and brief gusty winds the next few hours before diurnal boundary layer cooling diminishes the threat.

Deepening cumulus also is seen along the eastern portion of the cold front that is impinging on the convectively-modified air mass over the eastern Texas panhandle and western Oklahoma, which should help initiate a separate area of a few storms in the next hour or two. Clearing the last few hours has allowed temperatures to rise into the low-to-mid 70s with dewpoints holding in the low 60s over western and southwest Oklahoma. This is contributing to 500 J/kg to 1500 J/kg of MLCAPE with little remaining MLCIN. The modestly steep lapse rates and the potential for some rotation in the 40-50 kt of effective shear should support a marginally severe hail threat and brief gusty winds. As with the area farther west, the storms should weakening fairly quickly as diurnal cooling commences.

..Coniglio/Guyer.. 05/08/2019

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

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