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Mesoscale Discussion 570

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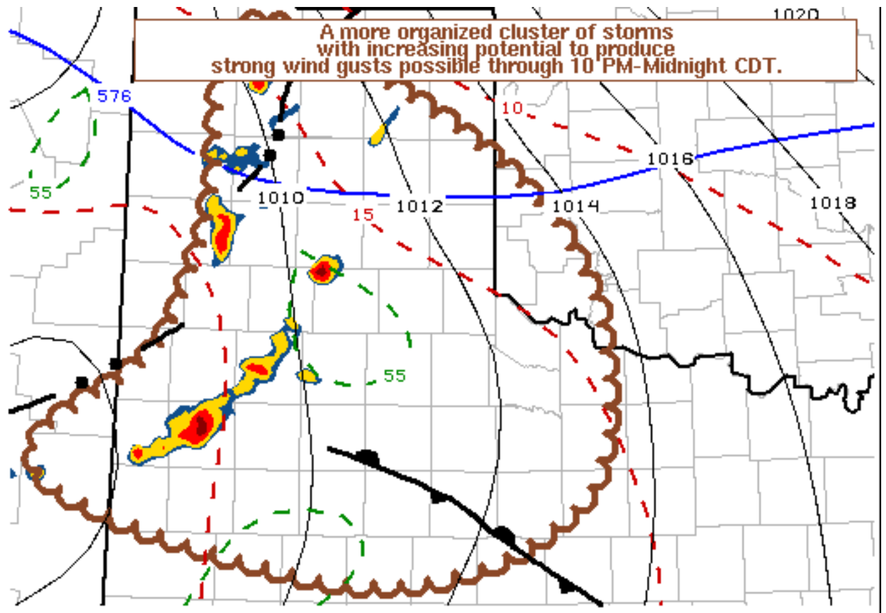

SPC MCD #0570

Mesoscale Discussion 0570
NWS Storm Prediction Center Norman OK
0845 PM CDT Mon May 11 2020

Areas affected...Parts of the Texas Panhandle/northwest Texas and southwestern Oklahoma

Concerning...Severe Thunderstorm Watch 177...

Valid 120145Z - 120315Z

The severe weather threat for Severe Thunderstorm Watch 177 continues.

SUMMARY...The evolution of a more organized cluster of storms with increasing potential to produce strong surface gusts remains possible across the Texas Panhandle/South Plains into western north Texas through 10 PM-Midnight CDT. Trends will continue to be monitored for the possibility of an additional watch to the east of Severe Thunderstorm Watch 177.

DISCUSSION...A gradual increase in convective development and intensity has occurred the past few hours, with at least a couple of storm clusters and discrete supercell development ongoing across the Texas Panhandle/South Plains vicinity. Some of this has already produced locally strong surface gusts and severe hail.

Aided by large-scale forcing for ascent associated with lower/mid tropospheric warm advection, a continued gradual consolidation of convection appears possible into the 03-05Z time frame. It appears that the centroid of activity may tend to become focused near or southwest of Childress TX, where strongest 2-hourly surface pressure falls (near 3 mb) have recently become evident in surface observations.

Although low-level moisture is seasonably modest, lapse rates are steep and deep-layer shear, in particular, is becoming quite strong due to continued strengthening of south/southeasterly low-level flow (30+ kt around 850 mb) beneath 30-40 kt westerly/northwesterly mid-level flow. This environment could still support the evolution of a more organized convective system with increasing potential to produce strong surface gusts.

..Kerr.. 05/12/2020

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

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