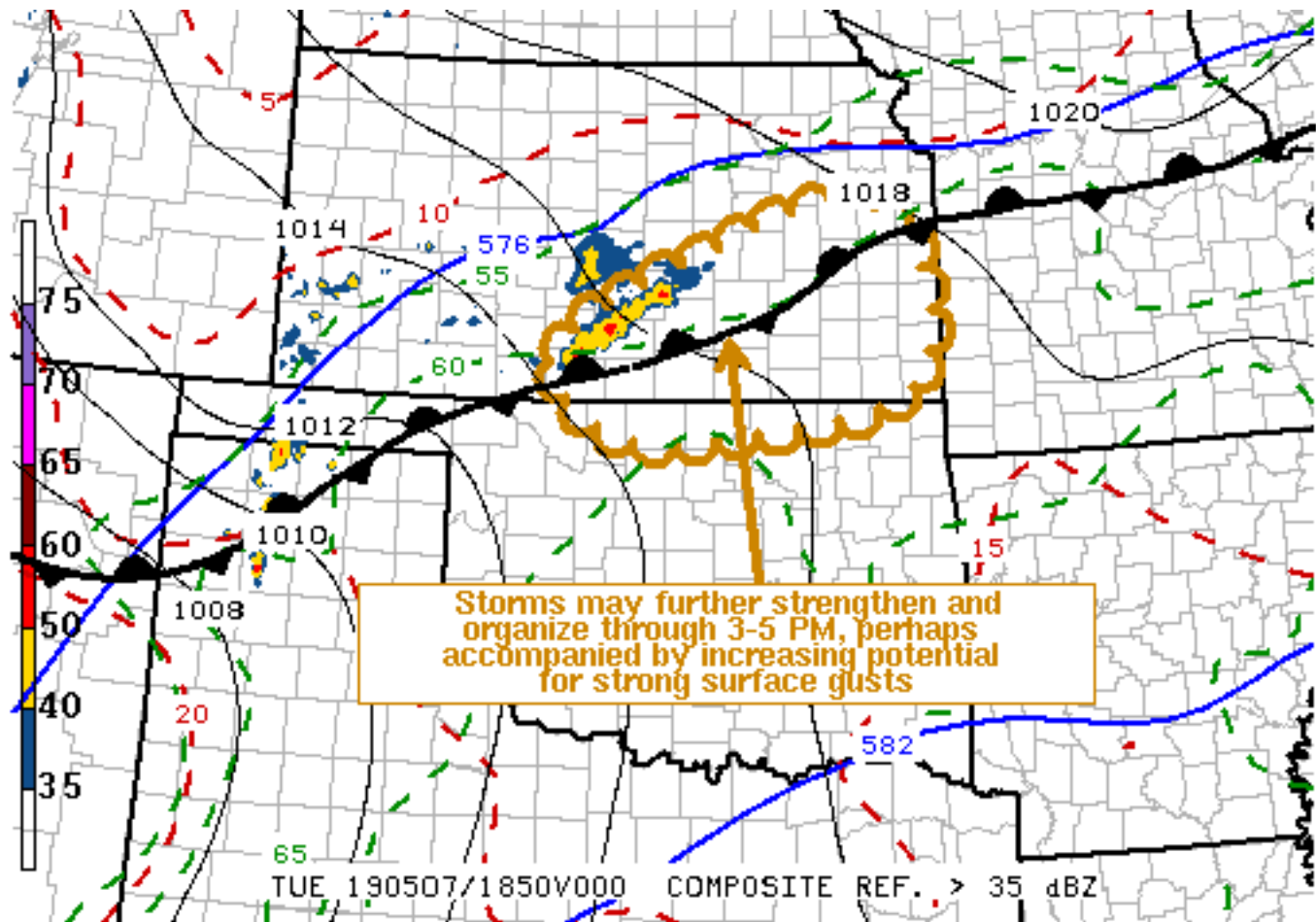


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Mesoscale Discussion 570

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SPC MCD #0570

Mesoscale Discussion 0570

NWS Storm Prediction Center Norman OK

0211 PM CDT Tue May 07 2019

Areas affected...Southeastern Kansas and adjacent portions of northern Oklahoma

Concerning...Severe potential...Watch possible

Valid 071911Z - 072115Z

Probability of Watch Issuance...40 percent

SUMMARY...An evolving cluster of storms may strengthen and become better organized through 3-5 PM CDT, possible becoming accompanied by increasing potential for strong surface gusts approaching severe limits. It is not certain that a watch will be needed, but trends will continue to be monitored for this possibility.

DISCUSSION...A sustained cluster of thunderstorms to the west/northwest of Wichita has been supported by large-scale ascent



associated with lower/mid tropospheric warm advection, to the cool side of the stalled surface frontal zone. This appears close enough to the front that continuing inflow of seasonably moist and destabilizing air from the warm sector may maintain activity and contribute to substantial further intensification through mid to late afternoon.

As this occurs, there appears potential for a gradually strengthening surface cold pool, coupled with at least modest shear in the convective layer, to contribute to the evolution of a better organized mesoscale convective system, with increasing potential for strong surface gusts. Despite being embedded within rather weak (less than 20 kt) west-southwesterly ambient mean flow, storm-scale process could lead to peak gusts at least approaching severe limits.

..Kerr/Guyer.. 05/07/2019

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

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