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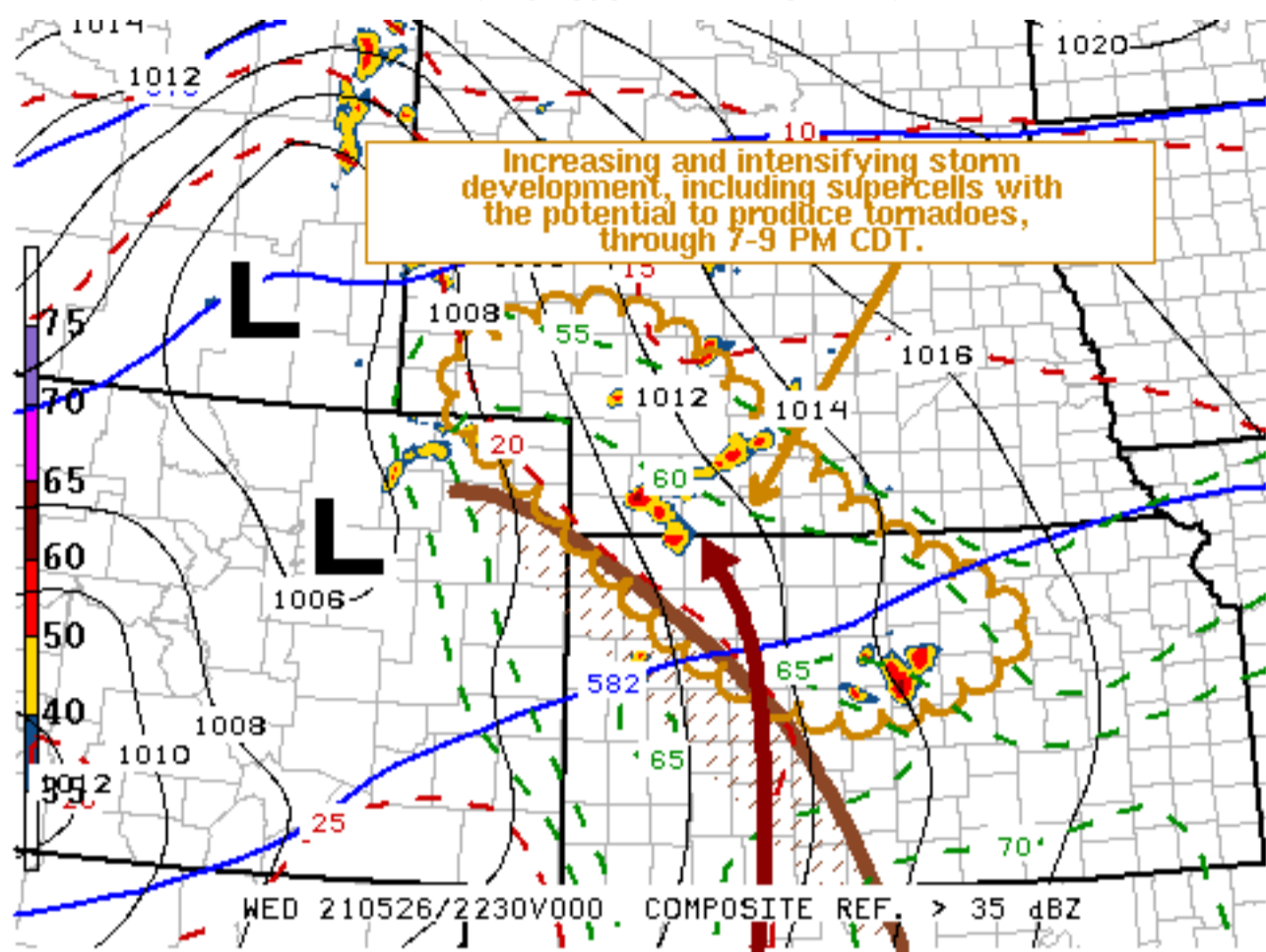
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Mesoscale Discussion 755

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SPC MCD #0755

Mesoscale Discussion 0755
 NWS Storm Prediction Center Norman OK
 0544 PM CDT Wed May 26 2021

Areas affected...Parts of northeastern Colorado...southwestern
 Nebraska...northwestern and north central Kansas

Concerning...Tornado Watch 209...210...

Valid 262244Z - 270045Z

The severe weather threat for Tornado Watch 209, 210 continues.

SUMMARY...Increasing and intensifying thunderstorm development into
 the 7-9 PM CDT time frame. This will probably continue to include a
 few supercells with increasing tornadic potential, along with
 potential for the evolution of organizing thunderstorm clusters.
 Areas to the east of the Tornado Watches will continue to monitored
 for additional severe weather watches.

DISCUSSION...Although isolated to widely scattered thunderstorms are
 now initiating along the dryline, a much more substantive increase
 in thunderstorms is underway along a corridor from the Russell, KS
 vicinity northwestward through the McCook and Scottsbluff areas of
 western Nebraska. This appears focused within a broad zone of
 lower/mid tropospheric warm advection, northeast of somewhat warmer
 and more strongly capping elevated mixed-layer air (as inferred from
 700 mb thermal fields).

Storms near Russell also appear focused near a zone of locally
 enhanced boundary-layer convergence, near the eastern periphery of a
 20-30 kt southerly 850 mb jet, which is forecast to strengthen to 40
 kt this evening. While there may be a tendency for this convection
 to begin to advect eastward, in the presence of 20-30 kt
 west-southwesterly ambient deep-layer mean flow, until the low-level
 jet begins to veer later this evening, strong storm development
 probably will remain focused near/west-northwest of the Russell
 vicinity.

Otherwise, a general increase and intensification of thunderstorm
 activity probably will continue across parts of the Nebraska
 Panhandle and southwestern into south central Nebraska through
 00-02Z, with a tendency for activity to advect east/northeast of the
 Tornado Watch area. However, strongest storms, including discrete
 supercells and upscale growing clusters, probably will remain
 focused near the edge of the warmer/more strongly capping elevated
 mixed-layer air, where the more moist and strongly heated
 boundary-layer is characterized by large CAPE (up to 3000 J/kg).

As the southerly low-level jet begins to strengthen by early
 evening, the risk for tornadoes in discrete supercells will probably
 continue to increase, include potential for a couple of strong
 tornadoes.

..Kerr.. 05/26/2021

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

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