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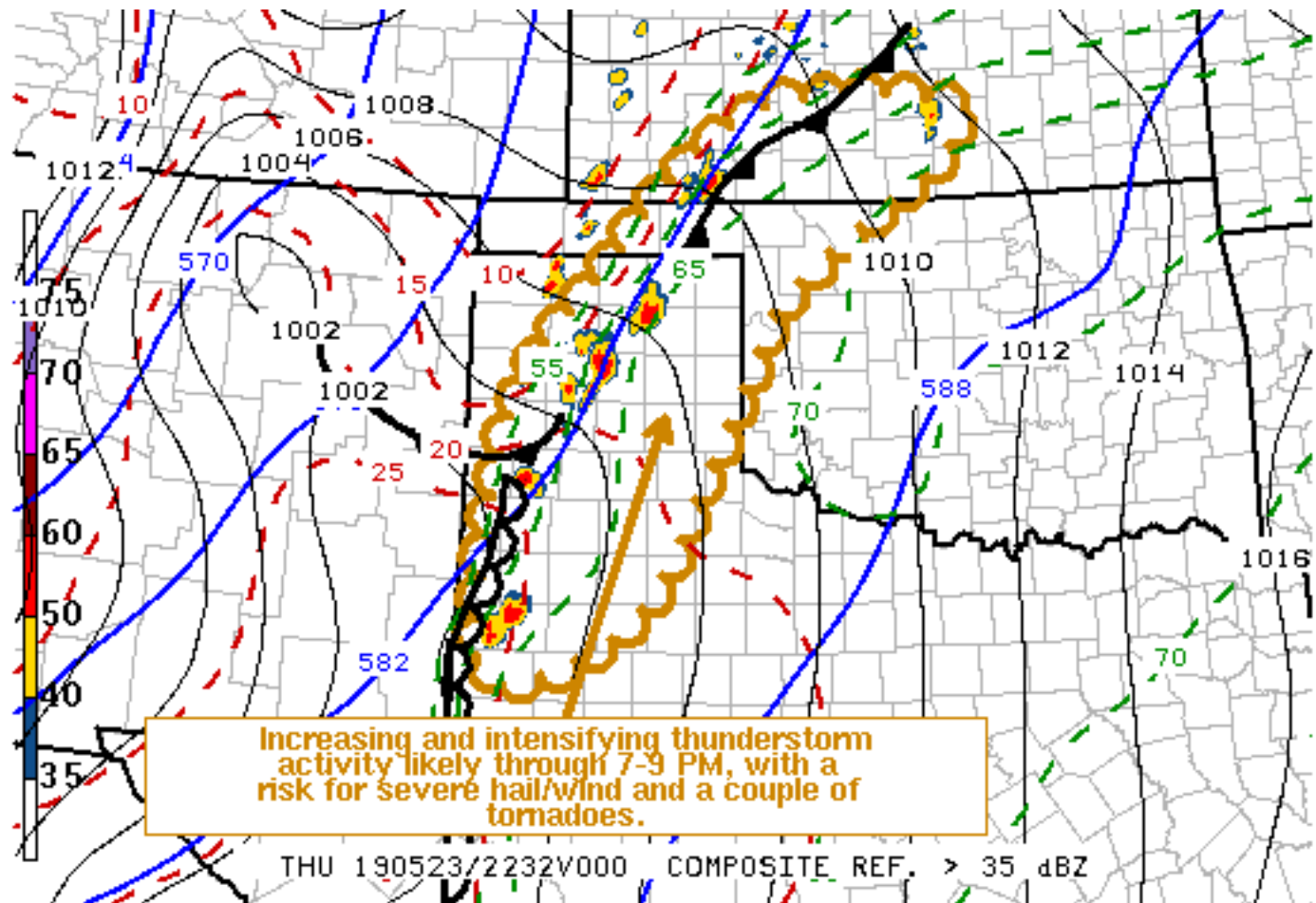
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Mesoscale Discussion 758

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SPC MCD #0758

Mesoscale Discussion 0758

NWS Storm Prediction Center Norman OK

0548 PM CDT Thu May 23 2019

Areas affected...Texas South Plains/Panhandle into southwestern
KansasConcerning...Tornado Watch [221](#)...

Valid 232248Z - 240015Z

The severe weather threat for Tornado Watch 221 continues.

SUMMARY...Thunderstorms likely will continue to increase in coverage
and intensity through 7-9 PM, accompanied by increasing severe
weather potential.DISCUSSION...As a mid-level short wave trough gradually pivots north
northeastward through the central High Plains, an increase in
vigorous thunderstorm development is ongoing near/west through
northeast of Amarillo. This is being supported by inflow of



seasonably high boundary layer moisture content, which is contributing to large CAPE in the presence of steep lower/mid tropospheric lapse rates. These storms are focused along and just to the cool side of a stalling or slow moving surface front, with stronger cells, including supercells, likely capable of producing severe hail into the evening hours. There probably is some continuing risk for a tornado with activity forming immediately along the stalled portion of the front, northeast of Amarillo, into areas south and east of Dodge City KS, however consolidating convective outflow with upscale growing convection may eventually support an eastward surge of the front across the Panhandle region, with strong surface gusts becoming the more prominent severe threat by this evening.

Farther south, discrete supercell development is also ongoing along the dryline, and likely will persist well into the evening hours. In the presence of strongly sheared, 40-50 kt south-southwesterly deep layer ambient mean flow, some of this activity will at least attempt to advect off the dryline. If it is able to overcome inhibition and maintain intensity, potential for tornadoes probably will increase north and east of Lubbock, toward the Childress area, where low-level hodographs are already large and clockwise curved and forecast to enlarge through 00-02Z.

..Kerr.. 05/23/2019

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

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