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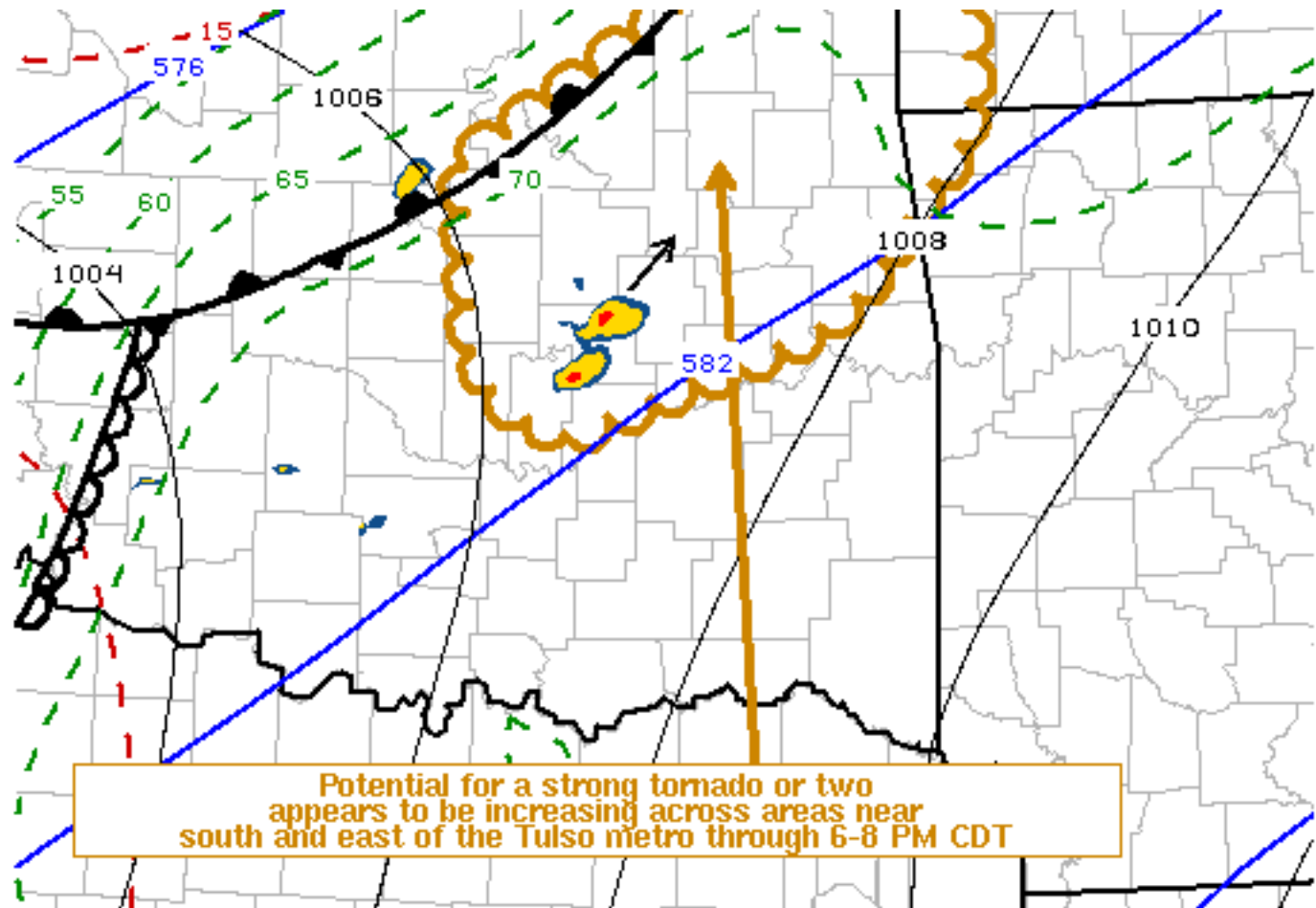
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## Mesoscale Discussion 736

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SPC MCD #0736

Mesoscale Discussion 0736

NWS Storm Prediction Center Norman OK

0505 PM CDT Wed May 22 2019

Areas affected...Parts of northeastern Oklahoma...southeastern Kansas...southwestern Missouri and adjacent northwestern Arkansas

Concerning...Tornado Watch [212](#)...

Valid 222205Z - 222330Z

The severe weather threat for Tornado Watch 212 continues.

SUMMARY...Potential for a strong tornado or two appears likely to increase near and south through east of Tulsa between now and 6-8 PM CDT.

DISCUSSION...Discrete supercell development is ongoing, particularly near the Okmulgee and Stillwater areas. This is occurring in the presence of rather strong (90-120 m) 12 hour 500 mb height rises, and it remains at least somewhat unclear what impact this will have



on subsequent development. However, activity is being aided by large-scale forcing for ascent associated with warm advection, and appears generally north of stronger mid-level inhibition associated with warmer elevated mixed-layer air (as inferred by 700 mb temps around +10 C to the south and southwest).

Cells now approaching Okmulgee appear increasingly rooted in the boundary layer, which is characterized by mixed-layer CAPE approaching 4000 J/kg. Embedded within strongly sheared southwesterly deep layer mean ambient flow on the order of 40 kt, there appears considerable potential for further intensification and progression into at least southern/eastern portions of the Greater Tulsa metropolitan area through 23-01Z. Models suggest that this will coincide with strengthening of southerly 850 mb flow to around 40 kt, with enlarging clockwise curved low-level hodographs becoming supportive of continuing/increasing tornadic potential.

..Kerr.. 05/22/2019

...Please see [www.spc.noaa.gov](http://www.spc.noaa.gov) for graphic product...

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