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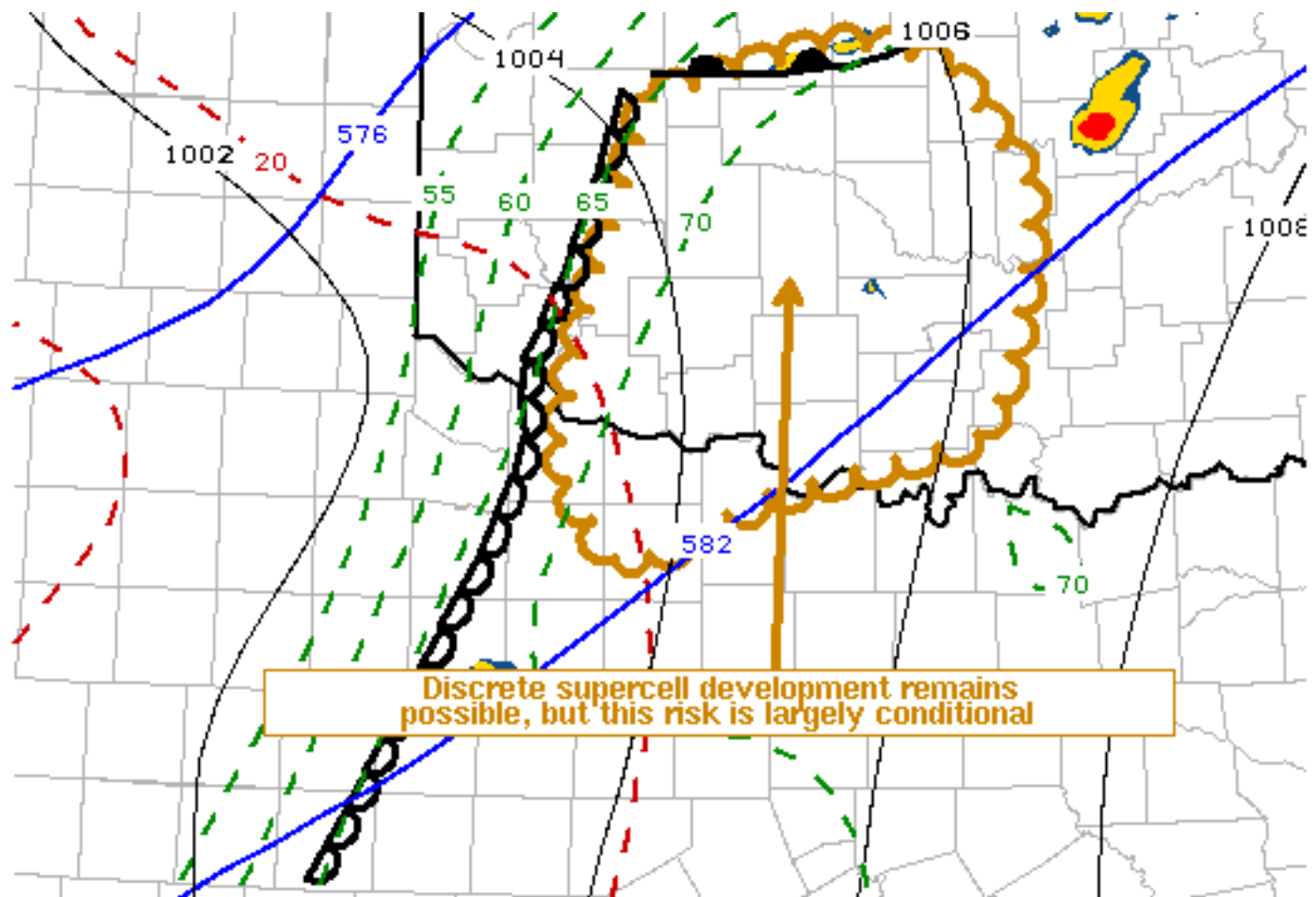
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Mesoscale Discussion 737

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SPC MCD #0737

Mesoscale Discussion 0737

NWS Storm Prediction Center Norman OK

0538 PM CDT Wed May 22 2019

Areas affected...Much of southwest into central Oklahoma and adjacent northwest Texas

Concerning...Tornado Watch [211](#)...

Valid 222238Z - 230015Z

The severe weather threat for Tornado Watch 211 continues.

SUMMARY...Potential for supercell development continues, but appears increasingly conditional late this afternoon and evening.

DISCUSSION...Initial thunderstorm development, which likely occurred in response to convective temperatures being reached near the dryline across southwest Oklahoma, has weakened as it advected northeast of the westward retreating dryline, within strongly sheared 40+ kt southwesterly ambient mean flow. Much of southern



Oklahoma is still under the influence of 60-90 mb 12-hour 500 mb height rises, and lower/mid tropospheric inhibition associated with the northern periphery of a plume of warm elevated mixed-layer air (as currently inferred by 700 mb temps around +10 C). However, at least attempts at vigorous thunderstorm development are still evident, particularly just south of the Oklahoma City metro. If activity can root within the strongly unstable boundary layer, there remains at least potential for rapid supercell thunderstorm development.

Otherwise, thunderstorm development is currently increasing along and just north of the slowly northward retreating surface front across north central Oklahoma. Some of this may pose at least an increase in risk for severe hail through early evening.

..Kerr.. 05/22/2019

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

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NOAA / National Weather Service
National Centers for Environmental Prediction
Storm Prediction Center
120 David L. Boren Blvd.
Norman, OK 73072 U.S.A.
spc.feedback@noaa.gov
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