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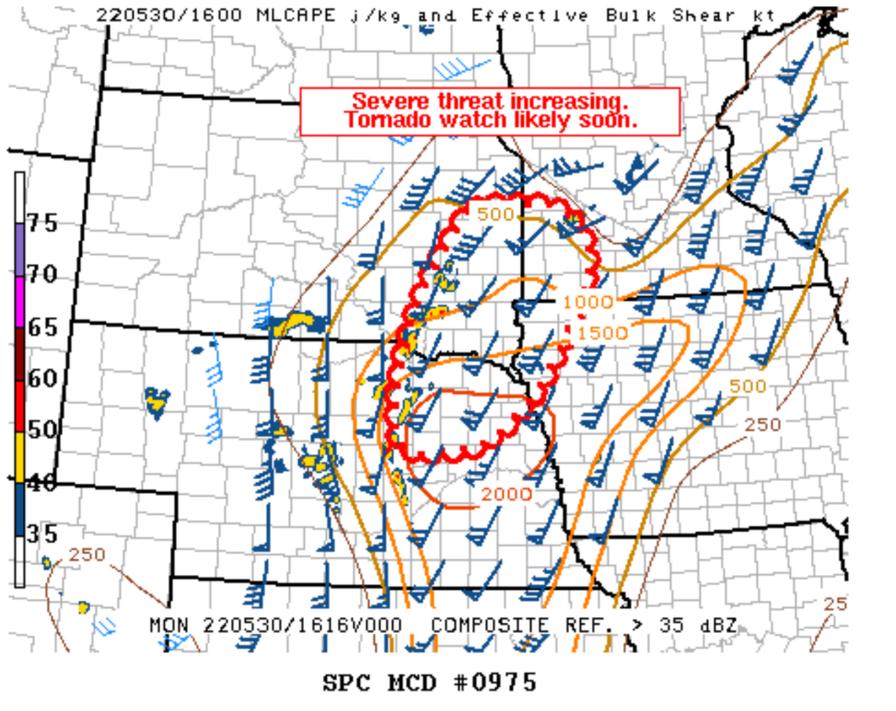
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Mesoscale Discussion 975

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Mesoscale Discussion 0975
 NWS Storm Prediction Center Norman OK
 1128 AM CDT Mon May 30 2022

Areas affected...portions of northeast NE...southeast SD...far southwest MN into far northwest IA

Concerning...Severe potential...Watch likely

Valid 301628Z - 301800Z

Probability of Watch Issuance...95 percent

SUMMARY...A tornado watch will be needed soon across parts of northeast NE into southeast SD and adjacent portions of far southwest MN/northwest IA.

DISCUSSION...The effects of large-scale ascent now shifting east across NE is apparent as convection is rapidly increasing near the triple point into vicinity of the northeast NE/southeast SD border. Some of this activity is still likely elevated, especially across SD. However, a surface warm front will continue to lift northward the next few hours, allowing for additional destabilization and erosion of capping. Storms may initially pose mainly a hail threat, but a quick transition toward damaging gust and tornado potential is expected over the next few hours with east/northeast extent.

Strong forcing amid supercell wind profiles will likely result in mixed storm mode, with bowing line segments and semi-discrete supercells likely. The KFSD VWP, which is located very near the surface warm front, already shows an enlarged, clockwise curved low-level hodograph with intense low-level shear/SRH present. This will support low-level rotation within semi-discrete convection and along any bowing/line segments. Tornadoes and damaging gusts will be possible and a watch is likely soon.

..Leitman/Thompson.. 05/30/2022

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

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 44539554 44399546 44159530 43799529 42959582 42449622
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