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City, St

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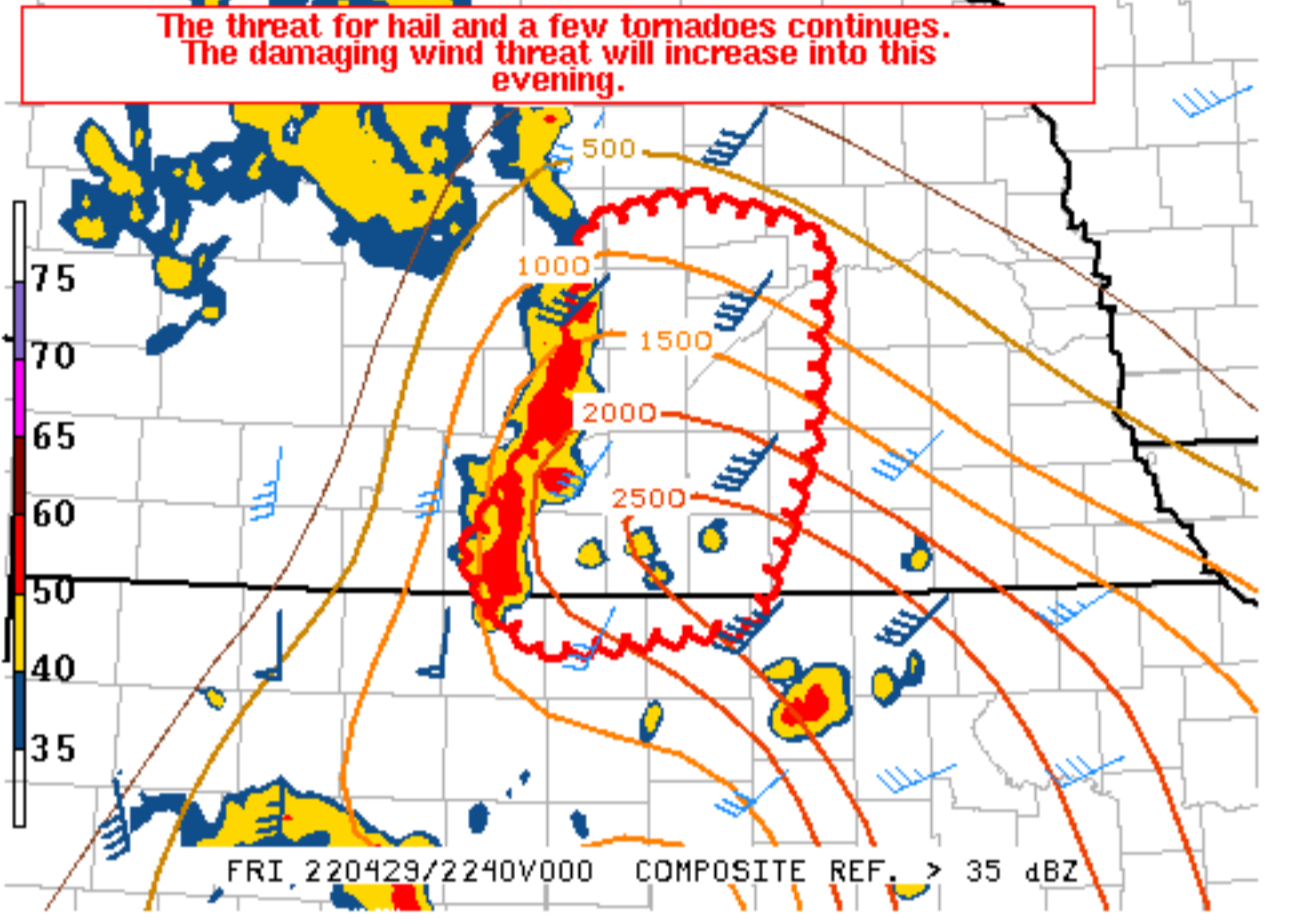
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Mesoscale Discussion 584

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220429/2200 MLCAPE j/kg and Effective Bulk Shear kt



SPC MCD #0584

Mesoscale Discussion 0584
 NWS Storm Prediction Center Norman OK
 0555 PM CDT Fri Apr 29 2022

Areas affected...South-central NE into north-central KS

Concerning...Tornado Watch [157](#)...[158](#)...

Valid 292255Z - 300030Z

The severe weather threat for Tornado Watch 157, 158 continues.

SUMMARY...The damaging-wind risk will likely increase this evening, in addition to the ongoing threat of hail and a few tornadoes.

DISCUSSION...Intense thunderstorms have increased in coverage over the last 30-60 minutes across south-central NE into far north-central KS, in response to notable low-level moist advection occurring just to the north of a deepening surface cyclone. A favorably veering wind profile with height (noted on recent KUFX VWP) will continue to support supercell structures, though a continued tendency toward storm mergers and upscale growth appears likely, as storms consolidate along an accelerating cold front.

The upscale evolution will likely lead to increasing risk of strong/damaging wind gusts, with one or more swaths of potentially significant wind (75 mph or greater) possible. Moderate buoyancy and downstream 0-1 km SRH in excess of 200 m2/s2 will also support a tornado risk with any embedded supercell structures, and potentially with any QLCS mesovortices that may evolve with time.

..Dean.. 04/29/2022

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

ATTN...WFO...OAX...TOP...GID...

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