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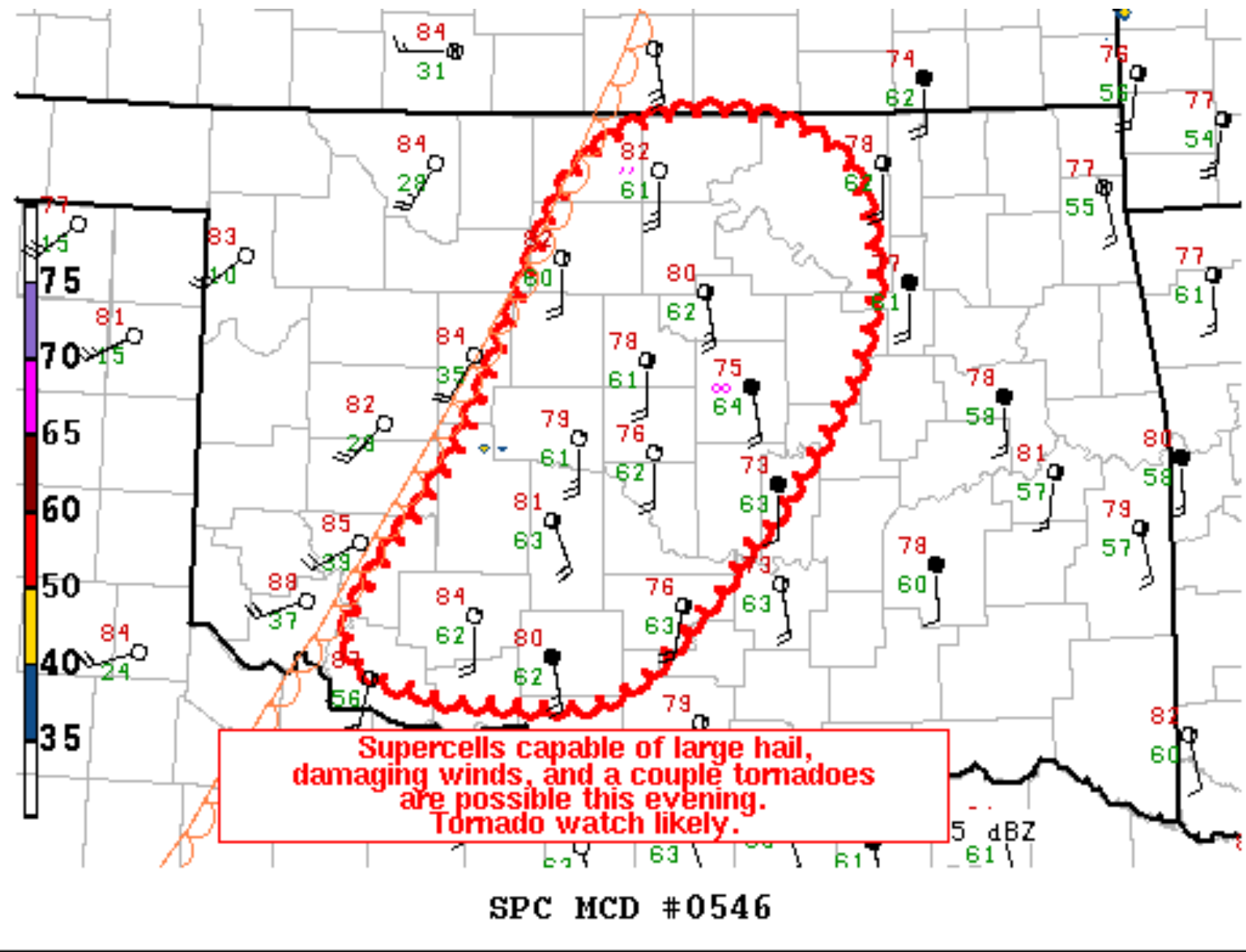
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Mesoscale Discussion 546

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Mesoscale Discussion 0546
 NWS Storm Prediction Center Norman OK
 0502 PM CDT Sat Apr 23 2022

Areas affected...Southwest...Central...and Northeast Oklahoma

Concerning...Severe potential...Watch likely

Valid 232202Z - 232330Z

Probability of Watch Issuance...80 percent

SUMMARY...Supercells capable of large hail, damaging winds, and a couple tornadoes are possible this evening. Tornado watch likely.

DISCUSSION...Regional surface observations depict a stalling dryline situated along a southwest to northeast oriented line from near Hobert to Okarche to Manchester, OK. East of this boundary, surface dew point temperatures are in the low 60s F, with an area of 64 F dew point temperatures entering south-central Oklahoma. Surface winds in the warm sector are sustained from the south near 20 kt, and KTLX VAD profiles show southerly flow increasing to near 40 kt at 1 km AGL, with substantial veering between 1-2 km AGL, indicative of a sickle-shaped hodograph.

Despite broken mid- to high-level clouds that continue to propagate over the region, the combination of modest convergence along the surface dry line and ascent from an approaching mid-level trough should lead to widespread convective development in the next 1-2 hours. This evolution is supported by the latest high resolution CAM guidance. The thermodynamic/kinematic conditions should promote supercell modes to evolve, posing a threat for large hail, damaging, wind gusts, and a couple tornadoes. A tornado watch will likely be needed soon across the area in anticipation of these convective threats.

..Karstens/Thompson.. 04/23/2022

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

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