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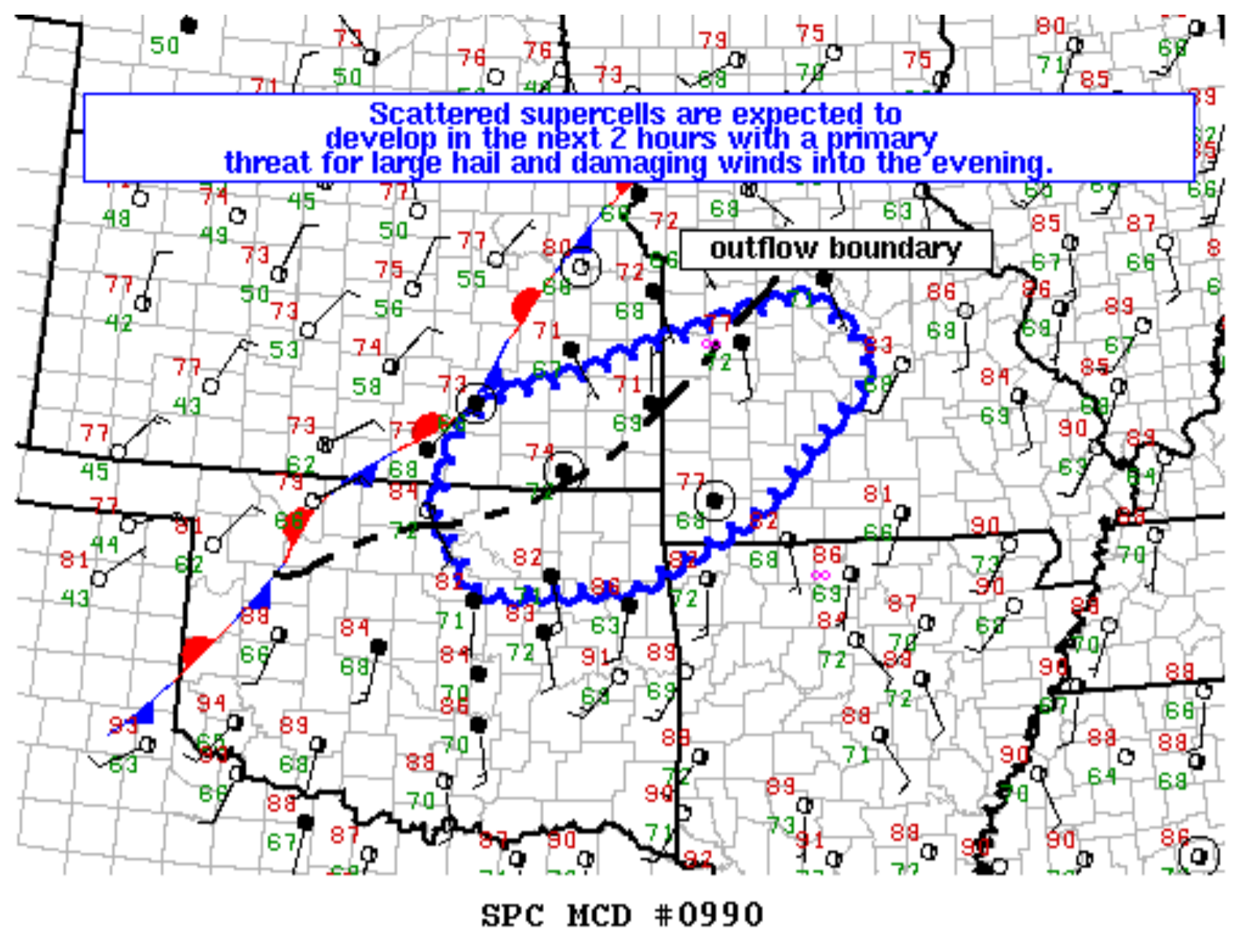
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Mesoscale Discussion 990

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Mesoscale Discussion 0990
 NWS Storm Prediction Center Norman OK
 0244 PM CDT Tue May 31 2022

Areas affected...Northeast Oklahoma...southwest Kansas...and southwest Missouri.

Concerning...Severe potential...Watch possible

Valid 311944Z - 312145Z

Probability of Watch Issuance...40 percent

SUMMARY...Scattered supercells may develop in the next 2 hours with a primary threat of large hail and damaging winds into the evening. A watch is possible.

DISCUSSION...An outflow boundary from overnight convection has stalled across northern Oklahoma into southeast Kansas and into the ongoing central Missouri convection. Despite significant cloud cover in the vicinity of this boundary, temperatures have warmed into the upper 70s to low 80s amid dewpoints near 70F which has mostly eroded inhibition per SPC mesoanalysis and 18Z LMN RAOB. Despite rising heights aloft, additional heating and convergence along this outflow boundary may be sufficient for storm development in the next 1 to 2 hours. Cloud bearing layer shear is around 50 knots which will be more than sufficient for supercell storm mode with effective shear closer to 60 knots for areas north of the outflow boundary with easterly/northeasterly low-level flow (per 18Z LMN RAOB).

Supercell storm mode will favor large hail, especially early in the storm life cycle, before transitioning to more of a severe wind threat as storms congeal into clusters. A tornado threat cannot be ruled out given the presence of an outflow boundary with the potential for storms north of this boundary where low-level streamwise vorticity is maximized. However, lower-tropospheric flow remains quite weak with only minimal low-level jet response expected this evening.

..Bentley/Kerr.. 05/31/2022

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

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