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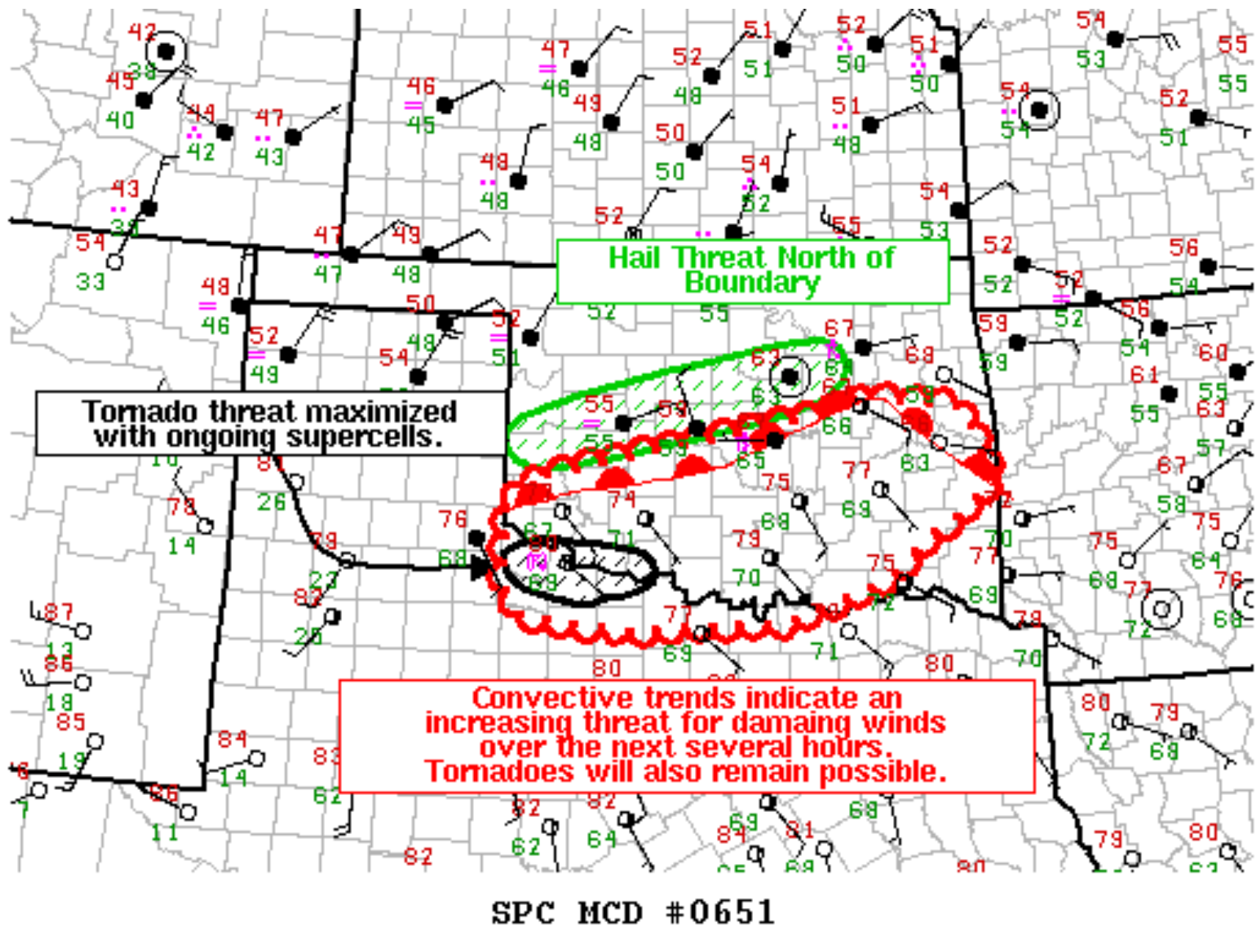
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## Mesoscale Discussion 651

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SPC MCD #0651

Mesoscale Discussion 0651  
NWS Storm Prediction Center Norman OK  
0913 PM CDT Wed May 04 2022

Areas affected...Portions of southern and central Oklahoma

Concerning...Tornado Watch 176...177...

Valid 050213Z - 050345Z

The severe weather threat for Tornado Watch 176, 177 continues.

**SUMMARY**...Convective trends suggest that clustering/MCS development may occur over the next few hours along/south of the warm front. Damaging winds will become more common with time. Tornadoes are most likely with discrete storms in Northwest Texas, though line-embedded supercells and circulations are possible as well. Replacement watches will likely be needed this evening.

**DISCUSSION**...Convective trends in southwestern Oklahoma and Northwest Texas show increasing storm coverage. Supercells are ongoing just south of the Red River, with the lead cell continuing to produced tornadoes. IR satellite trends also indicate cloud cooling along the warm front and NLDN shows an increase in lightning activity. These trends all suggest that MCS development may occur over the next several hours. While temperatures south of the warm front have cooled, low 70s F dewpoints will keep that cooling to a minimum. Given the downstream instability and forcing from the trough, storms should continue along and south of the boundary this evening/overnight. Damaging winds will become more common as a transition away from discrete cells occurs. While some activity will occur north of the warm front, storms there should generally be more of a threat for hail

The greatest short-term tornado threat will continue to be in Northwest Texas with the supercells moving east. Given the low-level wind fields, however, tornadoes will remain possible even with more linear activity.

A replacement tornado watch is likely for activity south of the boundary. The hail threat north of the boundary may be sufficient for a severe thunderstorm watch.

..Wendt.. 05/05/2022

...Please see [www.spc.noaa.gov](http://www.spc.noaa.gov) for graphic product...

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