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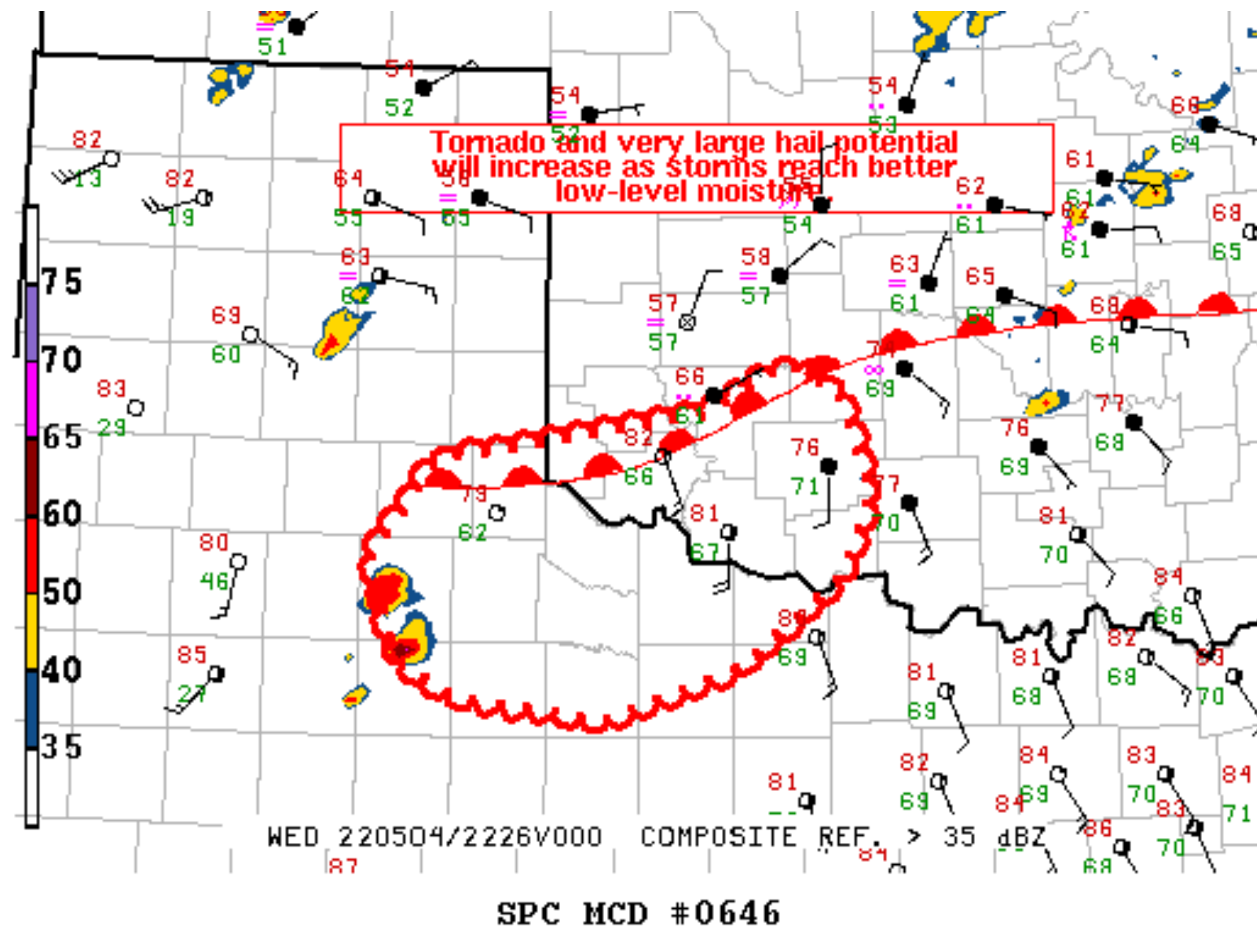
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## Mesoscale Discussion 646

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Mesoscale Discussion 0646  
 NWS Storm Prediction Center Norman OK  
 0552 PM CDT Wed May 04 2022

Areas affected...Northwest Texas into southwest Oklahoma

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

Valid 042252Z - 050015Z

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

SUMMARY...Storms moving into Northwest Texas and southwest Oklahoma may pose an increasing threat for tornadoes and very large hail as they encounter richer low-level moisture.

DISCUSSION...Ongoing right-moving supercells southwest of Childress, TX has produced 2+ inch hail recently. As this storm moves northeastward, it will reach upper 60s F dewpoints in southwest Oklahoma. Furthermore, it appears that billow clouds in southwest Oklahoma have evolved into more cumuliform over the past couple of hours per visible satellite. This would indicate most inhibition has been eroded. Low-level wind profiles show less turning within the region as compared to central Oklahoma. However, some increase in the low-level jet should promote large effective SRH with time. Tornado potential is expected to increase as storms move into this environment. Very large hail will also be likely with around 2500-3000 J/kg MLCAPE and over 8 C/km mid-level lapse rates.

..Wendt.. 05/04/2022

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

ATTN...WFO...OUN...LUB...AMA...

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