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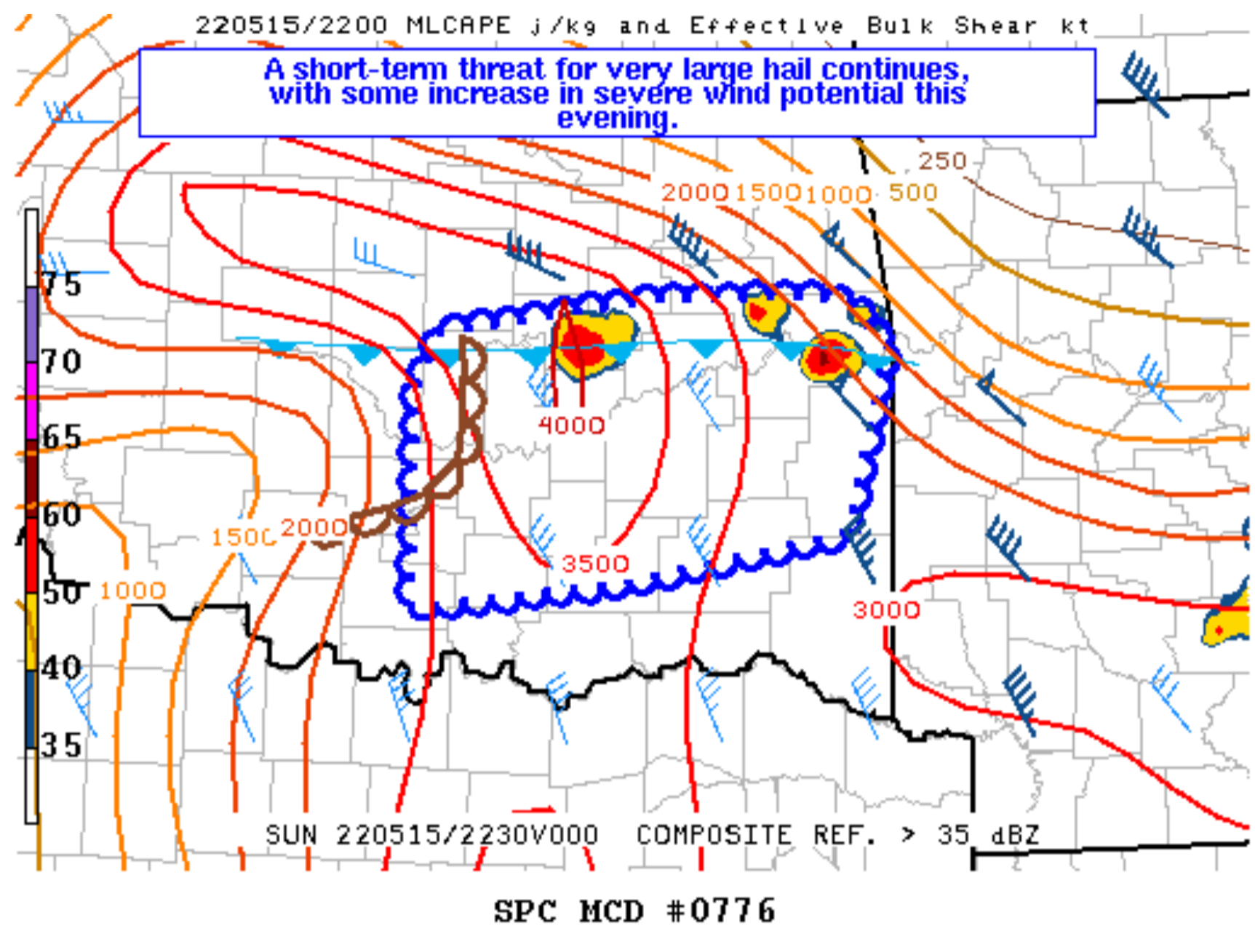
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Mesoscale Discussion 776

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Mesoscale Discussion 0776
 NWS Storm Prediction Center Norman OK
 0546 PM CDT Sun May 15 2022

Areas affected...South-central into east-central/southeast OK

Concerning...Severe Thunderstorm Watch 221...

Valid 152246Z - 160015Z

The severe weather threat for Severe Thunderstorm Watch 221 continues.

SUMMARY...Storms moving southward across east-central OK will pose a threat for isolated very large hail through 00Z. One or more clusters may develop with time, which would pose an increased damaging wind risk.

DISCUSSION...Multiple discrete supercells have developed along a southward-moving outflow boundary near the I-40 corridor of eastern OK. The thermodynamic environment is quite favorable for hail, with steep midlevel lapse rates and strong buoyancy noted on 18Z OUN/LZK soundings and recent objective mesoanalyses. 2.5" diameter hail was recently reported in Okfuskee County, and very large hail will continue to be possible with any sustained discrete cells into the evening. Deep-layer shear will remain sufficient for supercells, and a tornado or two cannot be ruled out, as long as cells remain rooted near the outflow boundary. Locally severe wind gusts will also be possible with these supercells.

With time, additional development is possible within a growing cumulus field to the southwest that extends into Garvin County. Some upscale growth is possible with time due to storm mergers and consolidating outflows, which could potentially pose an increasing severe-wind risk as convection spreads into south-central/southeast OK.

..Dean.. 05/15/2022

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

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