



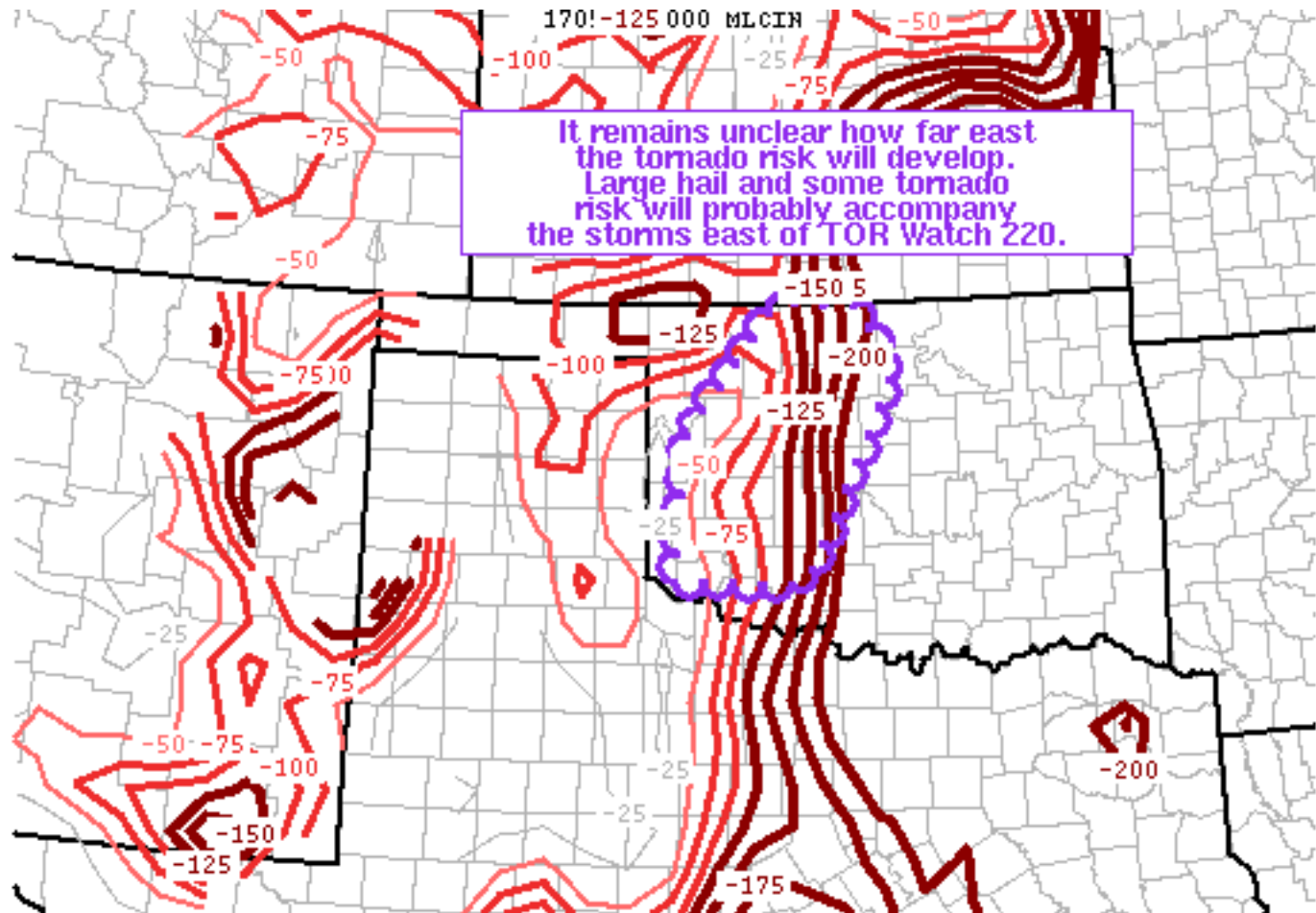
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Mesoscale Discussion 740

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SPC MCD #0740

Mesoscale Discussion 0740

NWS Storm Prediction Center Norman OK

0729 PM CDT Tue May 16 2017

Areas affected...southwest...central...and north-central
OK...south-central KS

Concerning...Tornado Watch [220](#)...[221](#)...

Valid 170029Z - 170130Z

The severe weather threat for Tornado Watch 220, 221 continues.

SUMMARY...It remains unclear how far east the tornado risk will develop with ongoing supercells in western OK. Large hail and some tornado risk will probably accompany the storms east of Tornado Watch 220 into parts of central OK.

DISCUSSION...Radar mosaic shows supercells over western OK with very large hail values per MRMS MESH with recent confirming reports. A likely strong tornado likely occurred around 0000-0015Z over

west-central OK with the strongest velocity signature this evening.

Stunted 0-2 km lapse rates (less than 6 degrees/km) and moderate low-level moisture (dewpoints ranging from 67 degrees F on the eastern edge of the Watch 220 to 65 degrees F on the I-35 corridor) will likely limit the tornado risk with further east extent towards the I-35 corridor compared to the ongoing potential over western OK. The 00Z OUN raob showed a stout capping inversion and large MLCINH (-300 J/kg). However, strong supercells and their internal dynamics may compensate to maintain some threat for a tornado immediately east of the current watch. With time, it appears the severe risk with the supercells as they move into central OK will transition to mainly hail/wind over central OK as storms move east of the moist axis.

..Smith.. 05/17/2017

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

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