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Mesoscale Discussion 1123

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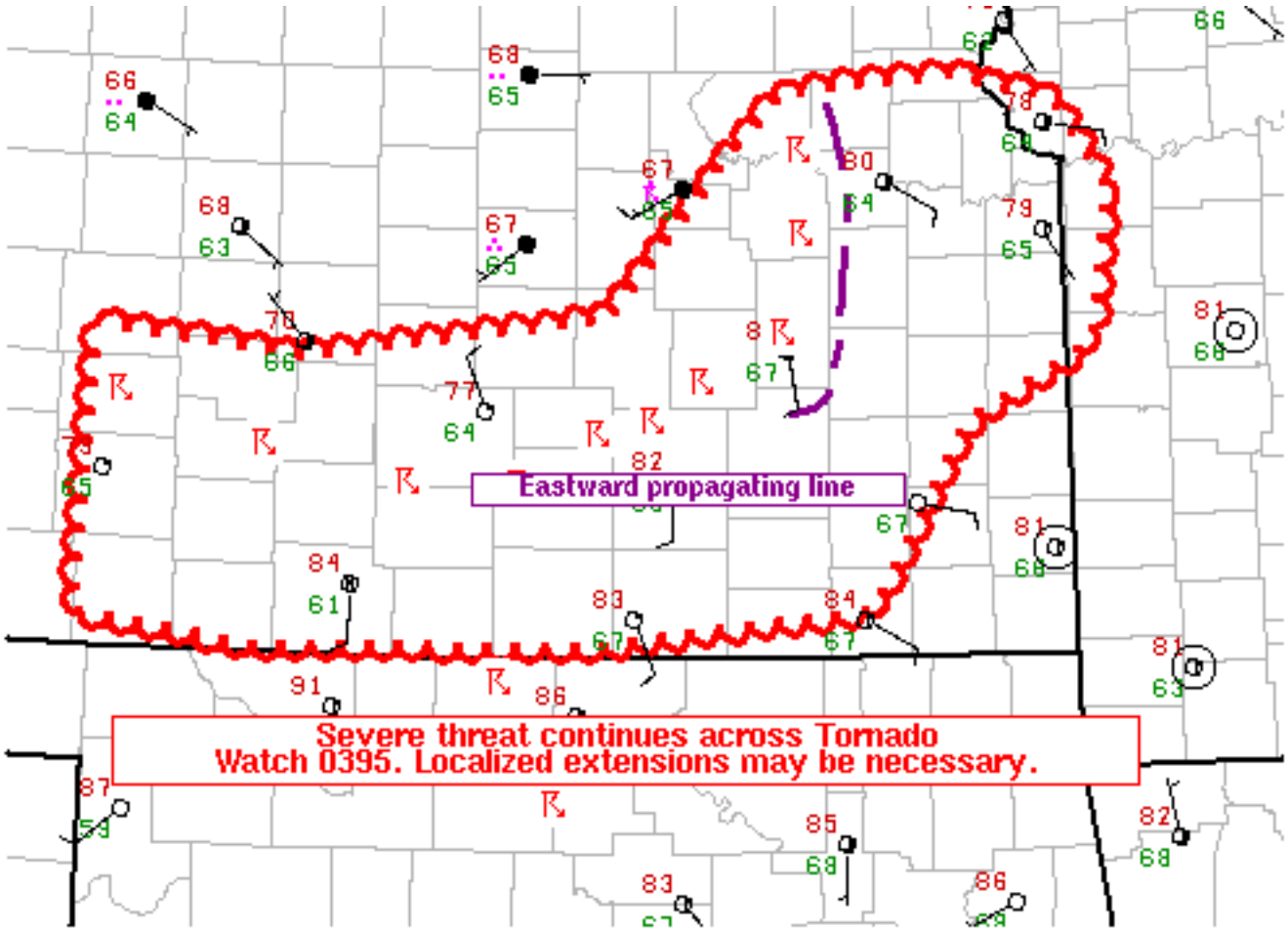

SPC MCD #1123

Mesoscale Discussion 1123
NWS Storm Prediction Center Norman OK
0416 PM CDT Tue Jun 18 2019

Areas affected...Central into southern and eastern Kansas...far western Missouri...far northern Oklahoma

Concerning...Tornado Watch 395...

Valid 182116Z - 182315Z

The severe weather threat for Tornado Watch 395 continues.

SUMMARY...The severe threat continues across Tornado Watch 0395. Severe hail (including a few 2.0+ inch stones), damaging wind gusts, and a couple tornadoes remain possible. Strong to severe storms are also beginning to approach the eastern bounds of the watch, where localized extensions may be necessary.

DISCUSSION...A mix of multicellular and supercell thunderstorms have become sustained along a quasi-stationary baroclinic zone, left

behind by an ongoing MCV located in central KS. These storms are supported by modest lift from the MCV, along with modest buoyancy (1000+ J/kg MLCAPE). While deep-layer directional shear is prevalent across the central Plains, overall weak troposheric flow has led to relatively poor speed shear throughout both a deep-layer, and the low levels. As such, supercell storms have only exhibited transient low-level rotation thus far, with storm-generated cold pools quickly merging to produce a more linear convective mode, particularly across eastern portions of the watch.

Some of these linear segments however, have become more sustained given that the deep-layer shear vector (however weak) is oriented roughly orthogonal to the convective line. As such, despite relatively weak buoyancy downstream, a few of the more organized linear segments across the easternmost portions of Tornado Watch 0395 may propagate out of the watch, where localized extensions may be necessary.

..Squitieri/Edwards.. 06/18/2019

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

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120 David L. Boren Blvd.
Norman, OK 73072 U.S.A.
spc.feedback@noaa.gov
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