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Mesoscale Discussion 1254

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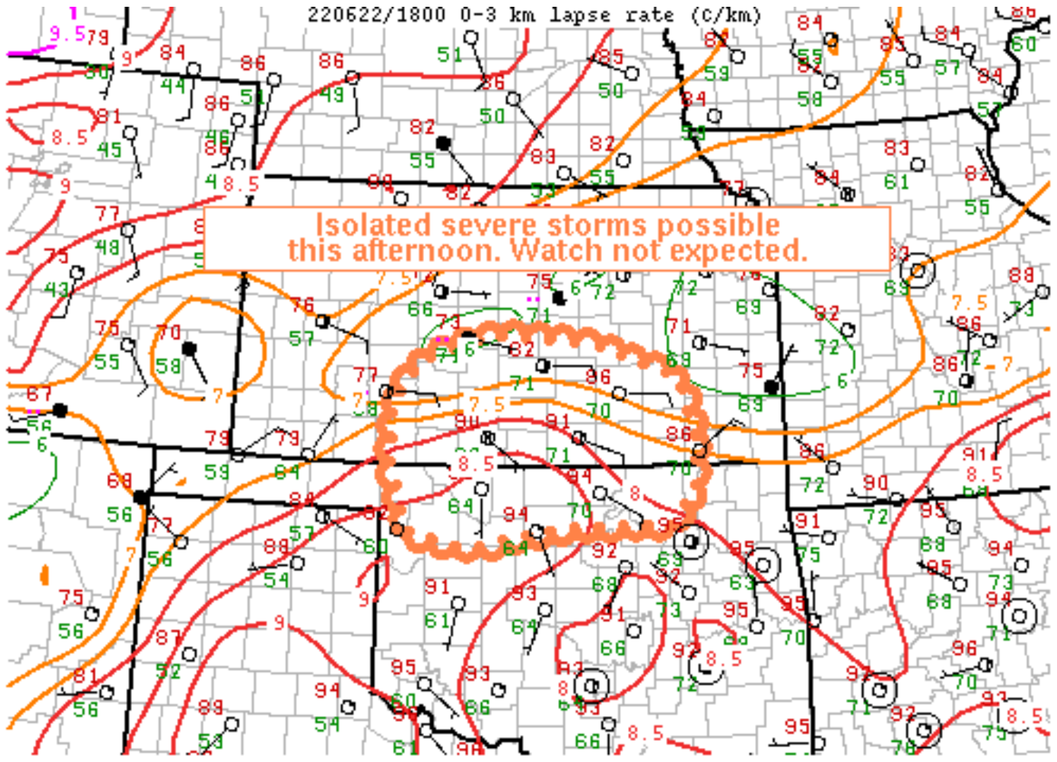

SPC MCD #1254

Mesoscale Discussion 1254
NWS Storm Prediction Center Norman OK
0213 PM CDT Wed Jun 22 2022

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

Concerning...Severe potential...Watch unlikely

Valid 221913Z - 222145Z

Probability of Watch Issuance...20 percent

SUMMARY...Isolated severe storms capable of locally severe gusts and sporadic large hail are possible across parts of north-central OK and south-central KS this afternoon. A watch is not expected at this time.

DISCUSSION...Surface observations show a quasi-stationary surface boundary extending from parts of northwest OK east-northeastward into southern KS. South of the boundary, diurnal destabilization of middle/upper 60s dewpoints beneath steepening midlevel lapse rates are supporting moderate/strong buoyancy (2500-3000 J/kg MLCAPE). As low-level lapse rates continue to steepen amidst modest low-level convergence along and south of the boundary, isolated to widely scattered convection should develop over parts of northern OK into southern KS by 22Z -- where boundary-layer cumulus continues to deepen/expand northward. Easterly low-level flow along the boundary beneath modest west-southwesterly midlevel flow (especially over south-central KS) should contribute to 20-30 kt of effective shear and modest low-level hodograph curvature. This could favor loosely organized convective clusters capable of locally severe gusts and sporadic large hail, while a brief tornado cannot be entirely ruled out with the more organized/surface-based storms in south-central KS near the boundary.

..Weinman/Grams.. 06/22/2022

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

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