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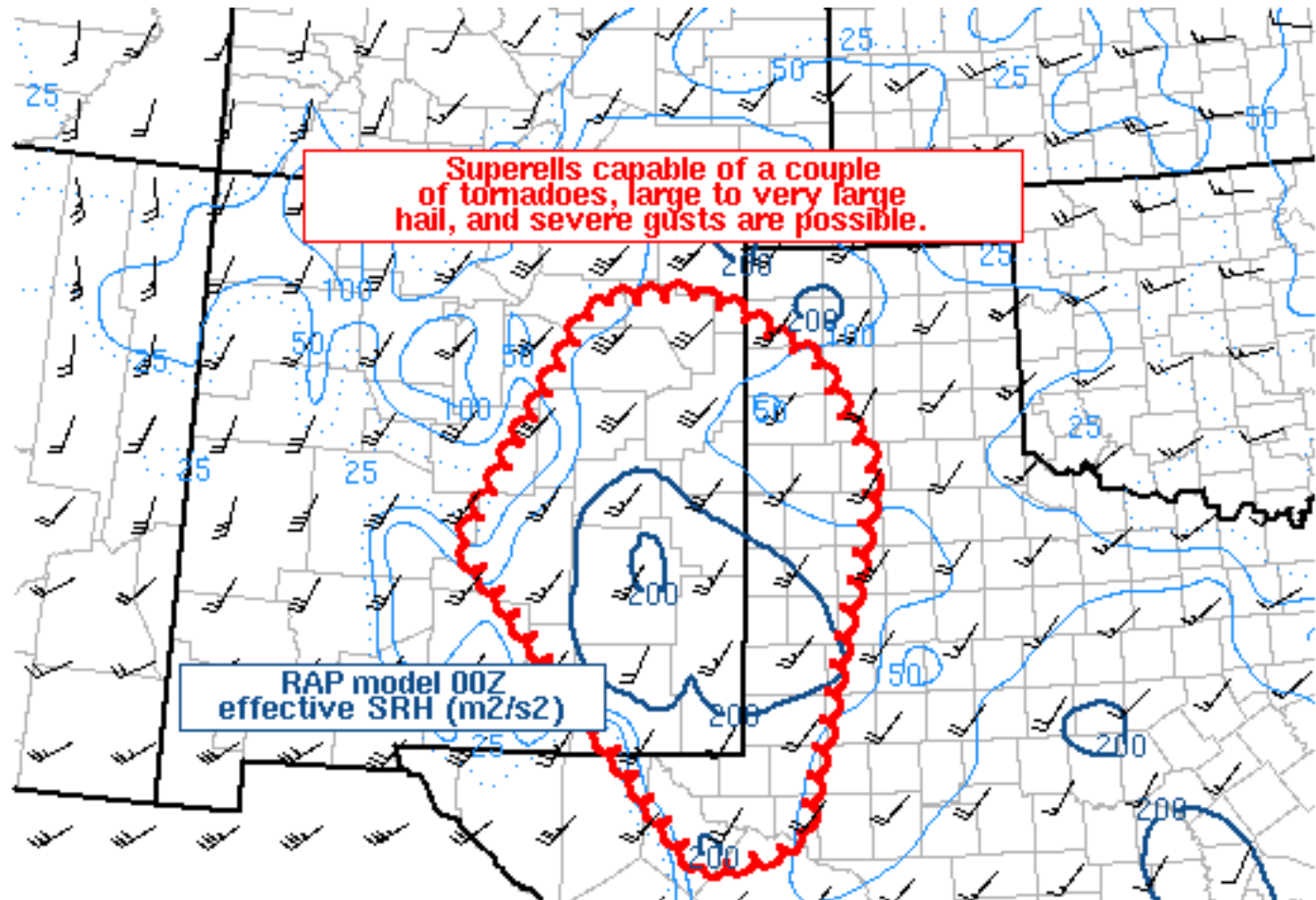
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SPC MCD #0670

Mesoscale Discussion 0670

NWS Storm Prediction Center Norman OK

0216 PM CDT Tue May 09 2017

Areas affected...east-central NM...Permian Basin of TX-NM...TX Llano Estacado

Concerning...Severe potential...Tornado Watch likely

Valid 091916Z - 092115Z

Probability of Watch Issuance...95 percent

SUMMARY...Supercells capable of a couple of tornadoes, large to very large hail, and severe gusts are possible this afternoon into the evening. A tornado watch will be required for much of the discussion area.

DISCUSSION...Visible satellite imagery shows a bubbling cumulus field across the Permian Basin to the southeast of ongoing supercells located from the north side of the Sacramento mountains

to the I-40 corridor near Clines Corners. Surface analysis shows low to middle 50s degrees F dewpoints over the Eastern Plains and middle to upper 50s dewpoints in the TX portion of the Permian Basin amidst southeasterly low-level flow.

Buoyancy is expected to increase this afternoon as temperatures warm slightly. By the late afternoon (22Z) onward, forecast soundings show strengthening southeasterly flow in the lowest 1.5 km---effectively enlarging hodographs (0-1 km SRH 200-300 m2/s2) compared to early this afternoon. When combined with moist low levels, strong buoyancy, and a quasi-discrete supercell mode, a strong tornado (appreciable duration) is a possibility. Given the observed trends, it is very likely a tornado watch will be required by the 2030-2100Z period or before.

..Smith/Hart.. 05/09/2017

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

ATTN...WFO...LUB...AMA...MAF...ABQ...EPZ...

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