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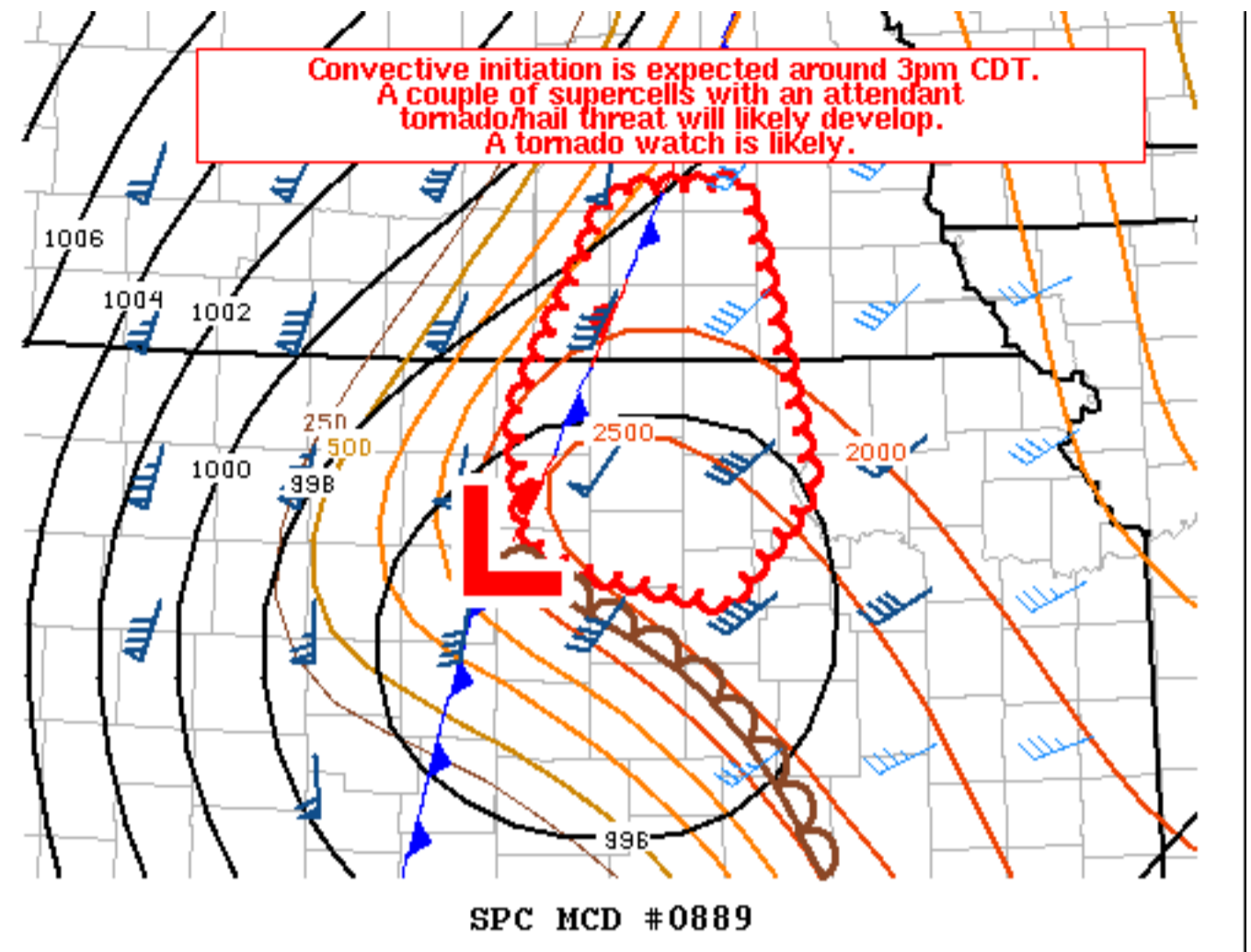
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Mesoscale Discussion 889

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SPC MCD #0889

Mesoscale Discussion 0889
 NWS Storm Prediction Center Norman OK
 0203 PM CDT Tue Jun 09 2020

Areas affected...north-central KS...southeast NE

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

Valid 091903Z - 092030Z

Probability of Watch Issuance...95 percent

SUMMARY...Convective initiation is expected around 3pm CDT. A couple of supercells with an attendant tornado/hail threat will likely develop later this afternoon. A tornado watch will likely be needed by 230pm CDT.

DISCUSSION...Visible satellite imagery shows a swelling cumulus field over north-central KS and southern NE as surface temperatures rise into the mid to upper 80s. Surface analysis places a boundary from 20 mi west of RSL to 40 mi northwest of CNK to 40 mi east-southeast of GRI. KTWX VAD shows low-level veering flow in the lowest 1-2 km and RAP forecast soundings show sickle-shaped hodographs in the lowest 8km but some backing aloft. Additionally, the deepening boundary layer evident in the RAP sounding data suggests CINH will largely erode during the next 1-2 hours.

Short-term guidance suggests a couple of storms will preferentially develop near the boundary during the mid-late afternoon with subsequent development farther southeast over northeast KS/far southeast NE towards early evening. The tornado risk will probably focus in the vicinity of the boundary but on the immediate warm sector side where large CAPE is co-located with ample surface vorticity. Large to very large hail will be possible with the more dominant/persistent updrafts.

..Smith/Thompson.. 06/09/2020

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

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