



Local forecast by "City, St" or "ZIP"

City, St



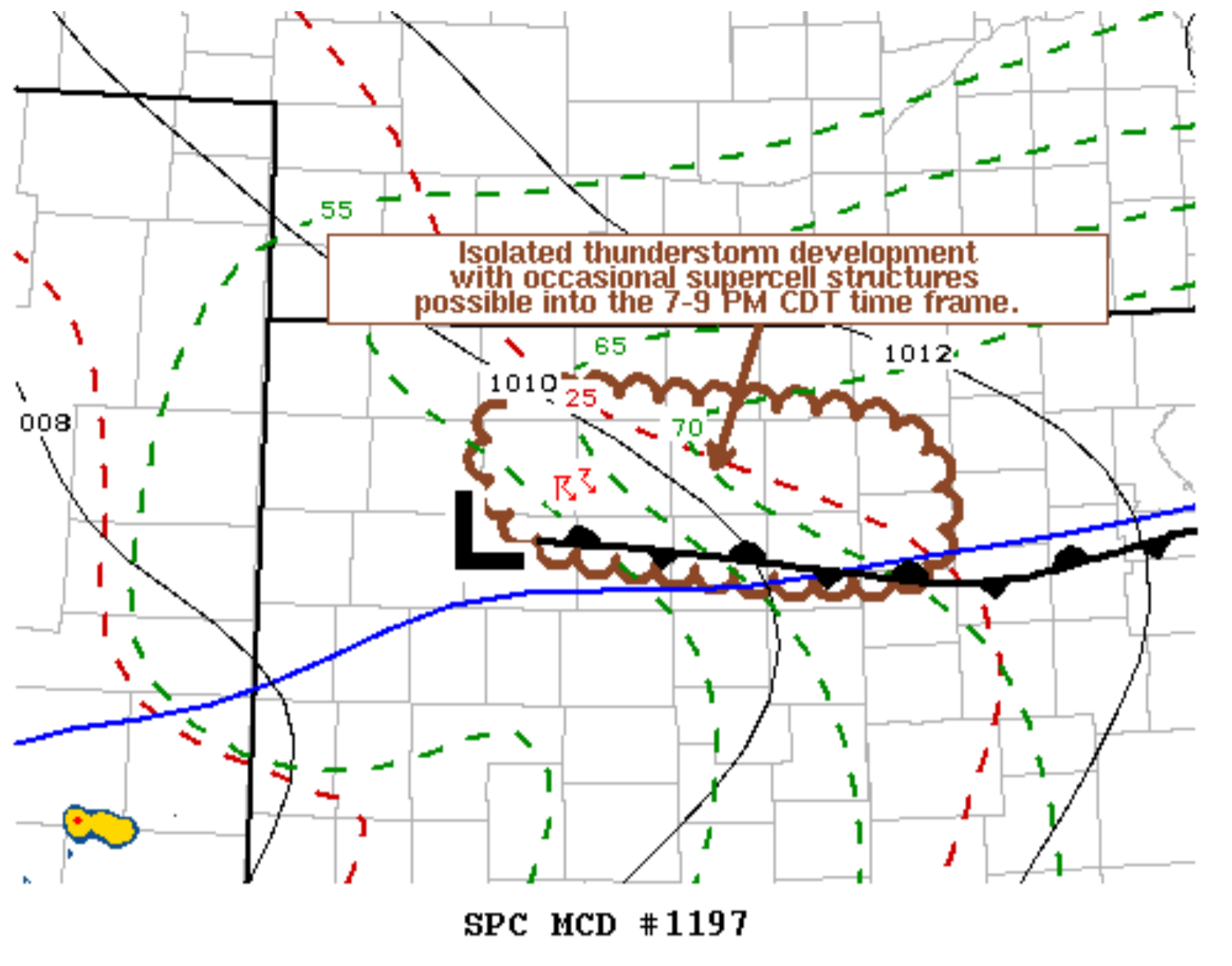
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Mesoscale Discussion 1197

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Mesoscale Discussion 1197
 NWS Storm Prediction Center Norman OK
 0523 PM CDT Thu Jun 16 2022

Areas affected...parts of northwestern into north central Kansas

Concerning...Severe potential...Watch unlikely

Valid 162223Z - 170030Z

Probability of Watch Issuance...20 percent

SUMMARY...Isolated sustained thunderstorm development is possible into the 7-9 PM CDT time frame, including the evolution of occasional supercell structures posing at least some risk for large hail, locally strong surface gusts and perhaps a brief tornado. It is not clear that a severe weather watch is needed, but trends will continue to be monitored.

DISCUSSION...At least attempts at sustained thunderstorm development are underway near a weak surface low, along a zone of stronger differential surface heating, beneath the periphery of a plume of warmer and more strongly capping elevated mixed-layer air. This is also near the northwestern periphery of prominent ridging around the 500 mb level, but veering wind profiles with height beneath weak to modest westerly 500 mb flow may be contributing to sufficient shear to promote the evolution of supercell structures.

It is possible that inflow into to this storm is or will increasingly emanate from a narrow corridor characterized by 70+ F dew points along the front, which is supporting strong to extreme CAPE in excess of 3000 J/kg. If low-level convergence and weak warm advection are able to continue to overcome inhibition and maintain thunderstorm development into the 00-02Z time frame, it could become augmented by increasing shear associated with a modest strengthening southerly low-level jet (up to 30 kt around 850 mb).

..Kerr/Bunting.. 06/16/2022

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

ATTN...WFO...ICT...GID...DDC...GLD...

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