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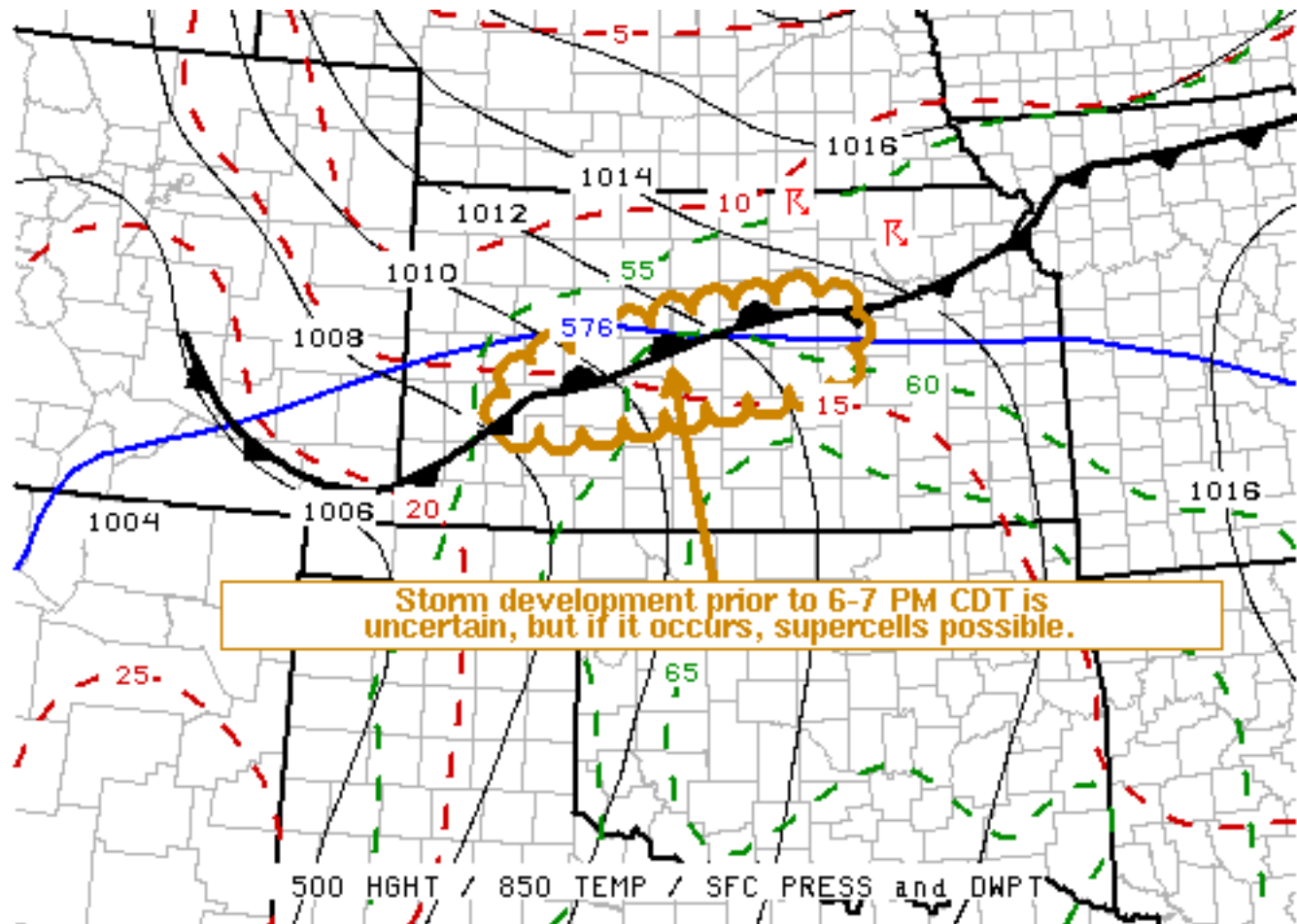
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Mesoscale Discussion 558

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SPC MCD #0558

Mesoscale Discussion 0558

NWS Storm Prediction Center Norman OK

0347 PM CDT Mon May 06 2019

Areas affected...Parts of southwest through central Kansas

Concerning...Severe potential...Watch possible

Valid 062047Z - 062215Z

Probability of Watch Issuance...40 percent

SUMMARY...Thunderstorm development prior to 6-7 PM appears possible, but is not certain. If storms do initiate, supercells are possible, accompanied by the risk for severe hail and perhaps a tornado or two.

DISCUSSION...Beneath steep mid-level lapse rates, insolation appears to be contributing moderately large mixed-layer CAPE in excess of 2000 J/kg, along and south of a stalled frontal zone. Latest mesoanalysis also suggests at least some weakening of inhibition



along this corridor, generally focused east-northeast of Garden City and Dodge City through the Salina vicinity.

This is also occurring beneath 30-60 m mid-level height rises associated with short wave ridging, and mid/upper support for the initiation of storms remains unclear through at least early evening. However, it appears at least possible that increasing low-level convergence and frontogenetic forcing could support thunderstorm development in the immediate vicinity of the boundary prior to 07/00Z. If this occurs, veering of winds with height beneath 30-40 kt westerly 500 mb flow will likely provide sufficient shear for supercells, accompanied by an initial risk for severe hail and perhaps an isolated tornado or two.

..Kerr/Guyer.. 05/06/2019

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

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