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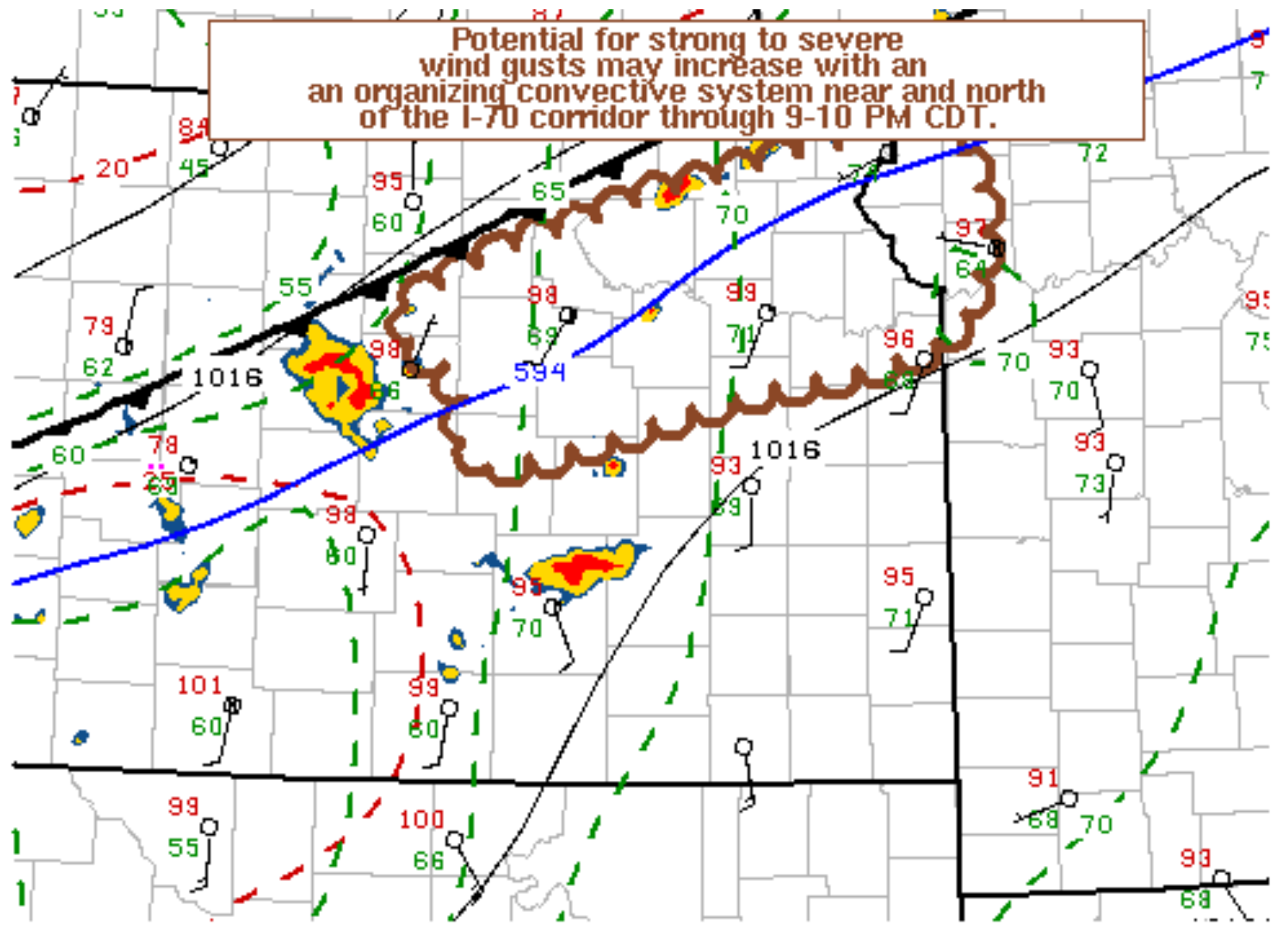
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Mesoscale Discussion 1247

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SPC MCD #1247

Mesoscale Discussion 1247
 NWS Storm Prediction Center Norman OK
 0708 PM CDT Tue Jun 21 2022

Areas affected...parts of central through northeastern Kansas and adjacent portions of northwestern Missouri

Concerning...Severe Thunderstorm Watch 399...

Valid 220008Z - 220145Z

The severe weather threat for Severe Thunderstorm Watch 399 continues.

SUMMARY...An intensifying and organizing cluster of thunderstorms may pose increasing potential for strong to severe wind gusts near and north of the Interstate 70 corridor, east of Salina toward the Greater Kansas City area through 9-10 PM CDT.

DISCUSSION...Thunderstorms have been gradually consolidating into a small intensifying cluster approaching the Salina area, with merging outflow beginning to contribute to a strengthening eastward advancing cold pool. Although deep-layer southwesterly mean ambient flow is weak, convection does appear on the southern fringe of 30-40 kt flow in the 500-300 mb layer, which may be contributing to at least modest vertical shear.

With the eastward acceleration of the surface cold pool, strengthening southeasterly to easterly system-relative low-level inflow emanating from an increasingly moist, but still strongly heated and deeply mixed boundary-layer (with CAPE in excess of 2000 J/kg) over eastern Kansas may support substantive further intensification of convection into the 01-03Z time frame. This may be accompanied by an increasingly well-defined lower/mid tropospheric cyclonic vortex, strengthening westerly rear inflow and increasing potential for strong to severe surface gusts near and north of the Interstate 70 corridor.

..Kerr.. 06/22/2022

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

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