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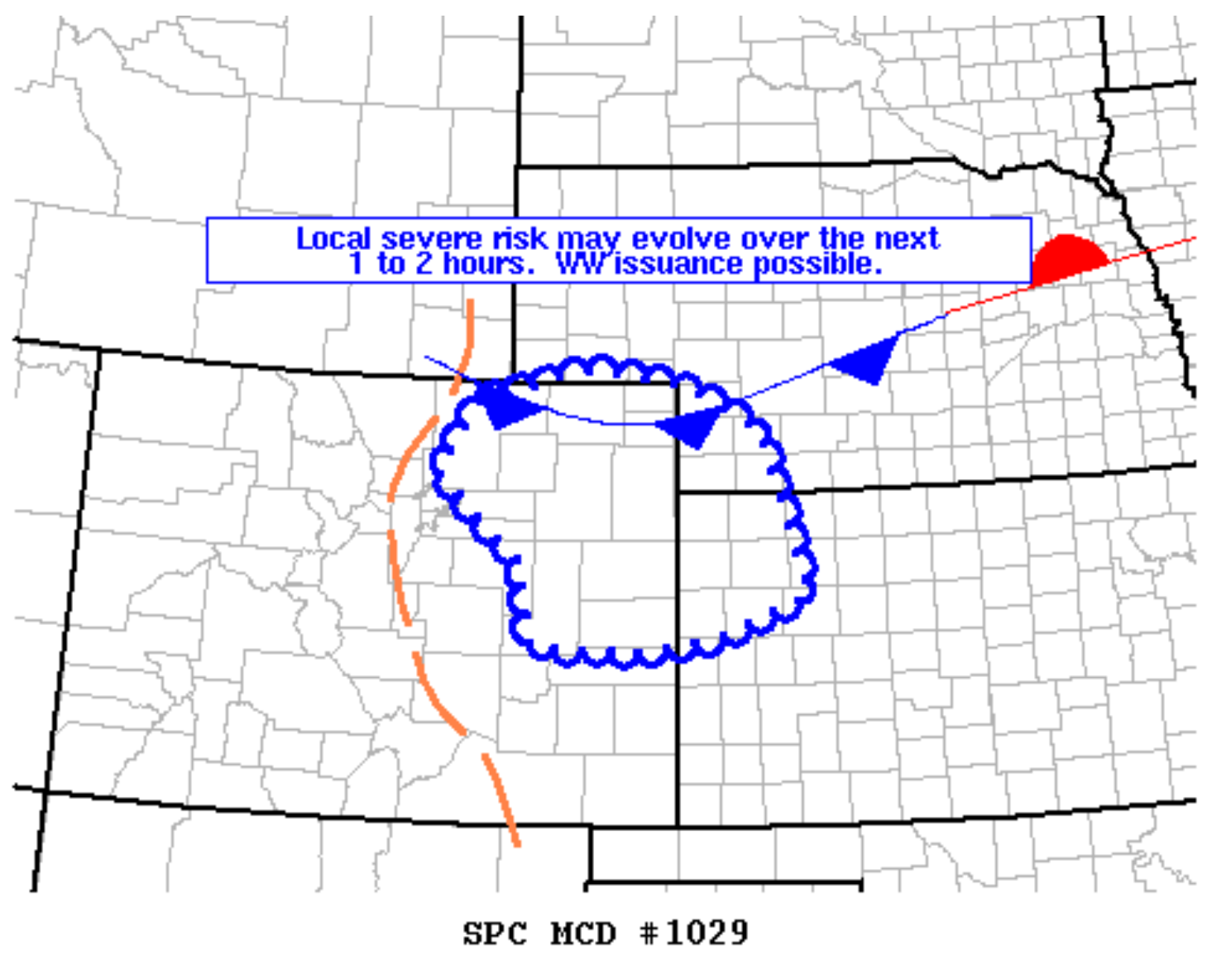
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Mesoscale Discussion 1029

< Previous MD Next MD >



Mesoscale Discussion 1029

NWS Storm Prediction Center Norman OK
0317 PM CDT Sat Jun 04 2022

Areas affected...northeastern Colorado...southwestern Nebraska...and northwestern Kansas

Concerning...Severe potential...Watch possible

Valid 042017Z - 042145Z

Probability of Watch Issuance...40 percent

SUMMARY...Local severe risk is expected to gradually evolve as storms increase across the northeastern Colorado vicinity over the next 1-2 hours. WW may be required.

DISCUSSION...Visible satellite loop, and latest radar imagery, shows storms increasing in the vicinity of the border between northeastern Colorado and the Nebraska Panhandle. The storms are occurring within a a general easterly low-level upslope flow regime, but appear to be focused near the intersection of a west-to-east front lying across northeastern Colorado and Nebraska, and a lee trough near the Front Range.

Diurnal heating of a seasonably moist boundary layer (upper 40s and low 50s over the high Plains and into the low 60s farther southeastward into Kansas) continues. This has resulted in moderate destabilization, with 1000 J/kg mixed layer CAPE over northeastern Colorado increasing to 2500 J/kg southeastward into Kansas. As storms spread slowly east-southeastward (0-6km mean wind roughly 280 at 15 kt), and encounter increasingly more favorable instability, expect intensity to likewise increase, aided by moderate 0-6km shear. Along with risk for large hail, locally damaging wind gusts will be possible -- particularly later on as some upscale growth of convection likely occurs. We will continue to monitor evolution of the convection, along with the possibility of WW issuance within the next 1-2 hours.

..Goss/Guyer.. 06/04/2022

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

ATTN...WFO...LBF...GLD...PUB...BOU...CYS...

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