



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

City, St

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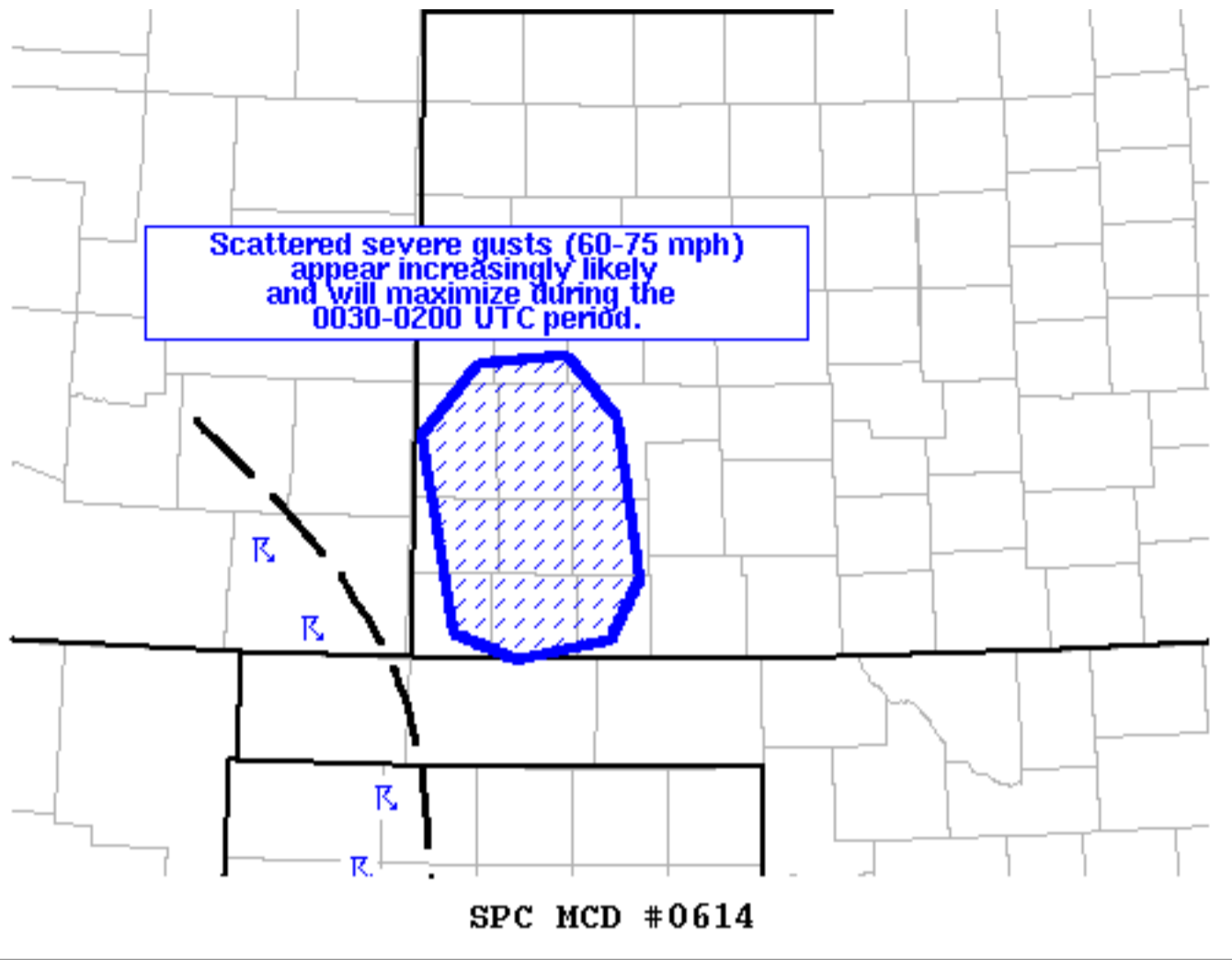
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Mesoscale Discussion 614

< Previous MD Next MD >



Mesoscale Discussion 0614
NWS Storm Prediction Center Norman OK
0626 PM CDT Fri May 14 2021

Areas affected...southwest KS

Concerning...Severe Thunderstorm Watch 170...

Valid 142326Z - 150130Z

The severe weather threat for Severe Thunderstorm Watch 170 continues.

SUMMARY...Scattered severe gusts (60-75 mph) appear increasingly likely over the next couple of hours across parts of southwest KS (0030 to 0200 UTC). Expecting the coverage and intensity of severe gusts to maximize during this timeframe.

DISCUSSION...Radar mosaic shows a broken band of discrete storms aligned north to south along a dryline from extreme southeast CO southward into the western counties of the TX Panhandle. The storms over southeast CO/western OK Panhandle are beginning to move into a more moist environment as the activity pushes eastward. Surface analysis shows dewpoints near 50 deg F near the CO/KS border and into the middle 50s one tier of counties farther east (i.e., Kearny, Grant, Stevens counties). As a result of both strong heating and the aforementioned well mixed but adequate boundary layer moisture, upwards of 2500 J/kg MLCAPE is noted on modified RAP forecast soundings (slightly more unstable than current SPC Mesoanalysis fields). The steep low-level lapse rates and the 9 deg C/km 700-500 mb lapse rates, will enable efficient downdrafts in the form of strong to severe gusts. Severe gusts ranging from 60-75 mph are expected as the activity over southeast CO/western OK Panhandle gradually moves into southwest KS during the next couple of hours.

..Smith.. 05/14/2021

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

ATTN...WFO...DDC...GLD...

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