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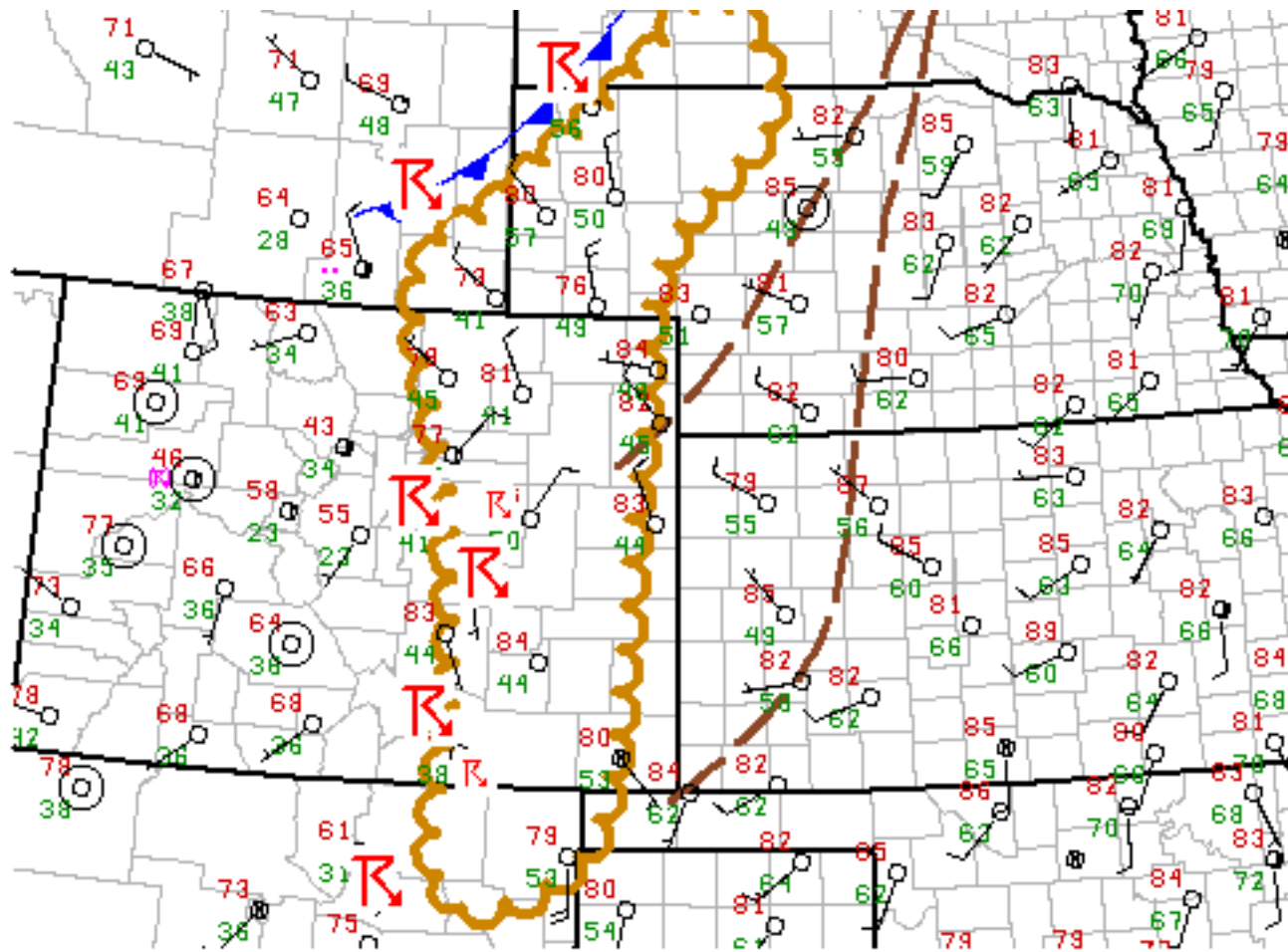
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Mesoscale Discussion 974

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SPC MCD #0974

Mesoscale Discussion 0974
 NWS Storm Prediction Center Norman OK
 0159 PM CDT Tue Jun 04 2019

Areas affected...northeast New Mexico...eastern Colorado...southeast Wyoming...western Nebraska and southwest North Dakota

Concerning...Severe potential...Watch unlikely

Valid 041859Z - 042100Z

Probability of Watch Issuance...20 percent

SUMMARY...Storms may produce isolated downburst winds and marginally severe hail as they spread east off the higher terrain this afternoon into the early evening. At this time, coverage of severe events is not expected to be sufficient to warrant a WW, but trends will continue to be monitored.

DISCUSSION...This afternoon strong diabatic heating over the mountains has resulted in thunderstorm development from northern NM,



central CO, and southeast WY. Other storms are developing farther northeast into southwest SD along southwestern extension of a cold front and in association with an MCV. Downstream across the High Plains, low-level dewpoints have mixed down into the 40s to low 50s F within a steep lapse rate environment, promoting modest instability with 500-1000 J/kg MLCAPE. Surface winds have shifted to northwesterly behind a lee trough situated over the Plains, and flow aloft will remain modest resulting in 20-30 kt effective shear supportive of multicell storms. Activity will continue spreading east into the high plains with a mix of discrete storms and clusters. The steep lapse rates with inverted-V boundary layers will promote a risk for isolated downburst winds with this activity through early evening.

..Dial/Hart.. 06/04/2019

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

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