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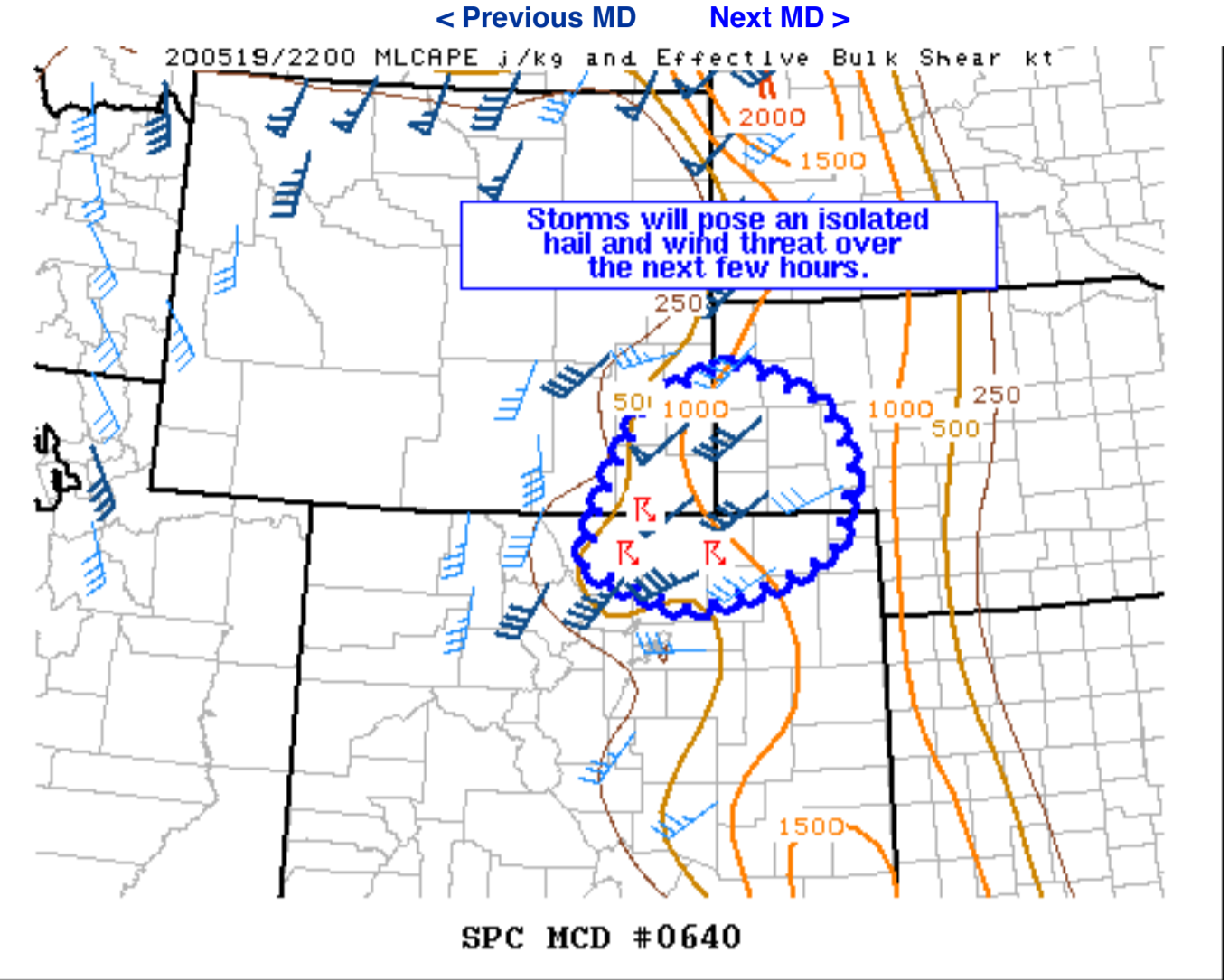
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Mesoscale Discussion 640



Mesoscale Discussion 0640
 NWS Storm Prediction Center Norman OK
 0601 PM CDT Tue May 19 2020

Areas affected...northern Colorado into southeast Wyoming and western Nebraska

Concerning...Severe potential...Watch unlikely

Valid 192301Z - 200100Z

Probability of Watch Issuance...20 percent

SUMMARY...Developing storms in northeast Colorado will pose an isolated risk for severe hail and wind as they move into southeast Wyoming and western Nebraska. This threat will persist for the next few hours.

DISCUSSION...Convective initiation is well underway across northern to northeast CO as storms form off of a lee trough/dryline and off the higher terrain. Stronger effective bulk wind shear (on the order of 40-50 knots) coupled with sufficient MLCAPE between 500-1000 J/kg should allow at least a storm or two to persist over the coming hours. Favorable deep layer shear as well as steep 8-9 C/km low-level lapse rates will support a threat for severe hail and wind as these storms move into southeast WY and the NE Panhandle. Modest low-level moisture advection ongoing across the WY/NE/CO tri-state area may aid in storm maintenance for an hour or so after sunset, but increasing inhibition due to the loss of daytime heating will diminish the severe threat heading into the overnight hours. Due to the isolated nature of the threat, a watch is not likely.

..Moore/Thompson.. 05/19/2020

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

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