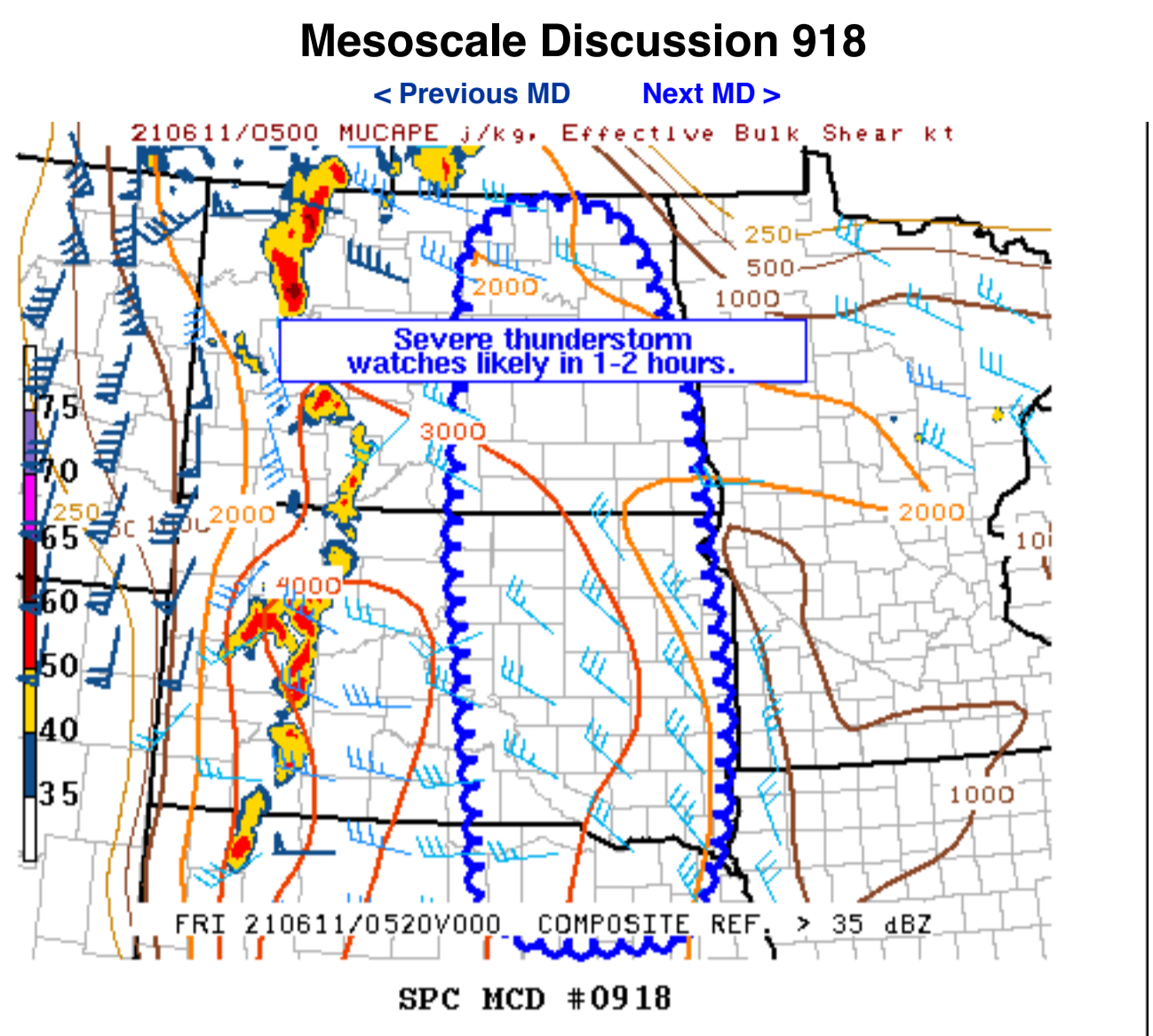


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Mesoscale Discussion 0918
 NWS Storm Prediction Center Norman OK
 1252 AM CDT Fri Jun 11 2021

Areas affected...eastern SD/ND and northeast NE
 Concerning...Severe potential...Severe Thunderstorm Watch likely
 Valid 110552Z - 110645Z
 Probability of Watch Issuance...95 percent

SUMMARY...A line of severe thunderstorms with a history of producing severe thunderstorm wind gusts and hail will continue spreading eastward across the Dakotas and parts of northern Nebraska overnight. New severe thunderstorm watches will be needed in the next 1-2 hours.

DISCUSSION...Well-organized bowing segments with strong rear-inflow jets have been noted in radar imagery over the past hour, and have produced numerous severe wind gust reports. This activity will continue tracking generally eastward at around 40-50 kt the next several hours. This should bring these storms to edges of WW 253 and WW 254 between 07z-08z. Moderate to strong instability remains downstream across the eastern Dakotas into northeast NE, along with a southerly 850 mb jet around 35-45 kt. While low level inhibition exists due to nocturnal cooling of the boundary layer, very steep lapse rates remain between 2-6 km. As a result, a favorable thermodynamic and kinematic parameter space should continue to support a well-organized QLCS capable of severe/damaging gusts into portions of eastern ND/SD and northeast NE during the overnight hours.

..Leitman/Thompson.. 06/11/2021
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