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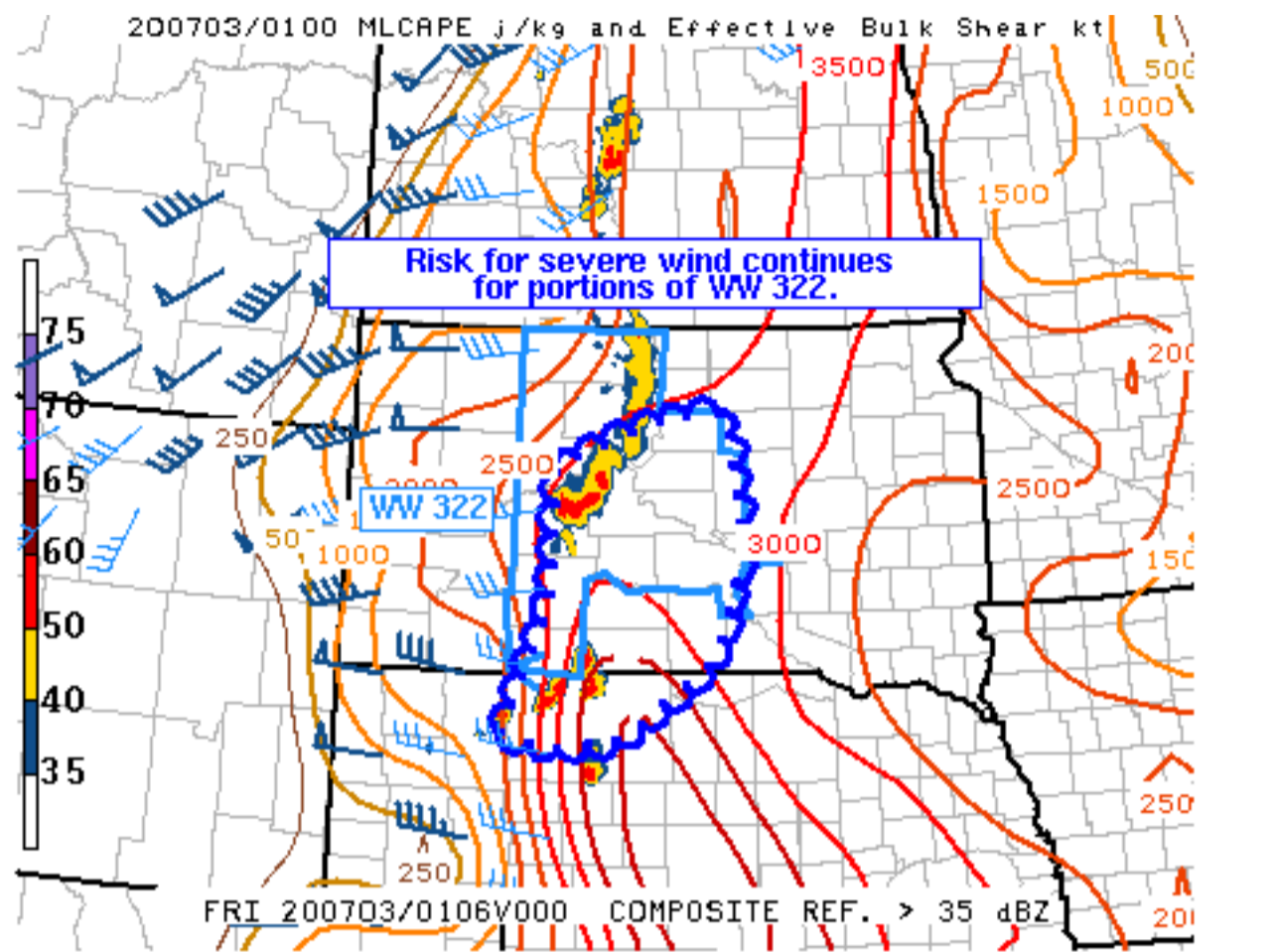
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Mesoscale Discussion 1088

[< Previous MD](#) [Next MD >](#)



Mesoscale Discussion 1088

NWS Storm Prediction Center Norman OK

0846 PM CDT Thu Jul 02 2020

Areas affected...Southern South Dakota and far northern Nebraska

Concerning...Severe Thunderstorm Watch 322...

Valid 030146Z - 030245Z

The severe weather threat for Severe Thunderstorm Watch 322 continues.

SUMMARY...Thunderstorms will continue to pose a threat for severe winds and isolated severe hail for the next 1-2 hours.

DISCUSSION...An MCS continues to propagate to the east across WW 322 with new thunderstorm development recently noted along an outflow boundary further to the south across the SD/NE border. Although MLCIN is beginning to increase amid the onset of diurnal cooling, the southern edge of the SD MCS and the ongoing semi-discrete cells along the SD/NE border remain in a favorable thermodynamic environment on the northern extent of a region of 3000-4000 J/kg MLCAPE. Despite marginal effective bulk shear between 20-30 knots, low-level lapse rates remain somewhat steep (7-8 C/km) across this region. This should continue to support the potential for organized outflow and severe wind gusts at least for the next 1-2 hours. Additionally, nickel to quarter sized hail has been reported with the semi-discrete storms across northern NE, suggesting that a few instances of severe hail are possible, though the overall hail threat is relatively low. The continued increase in MLCIN with eastward extent and continued nocturnal cooling will likely limit the longevity to the next couple of hours.

..Moore.. 07/03/2020

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

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