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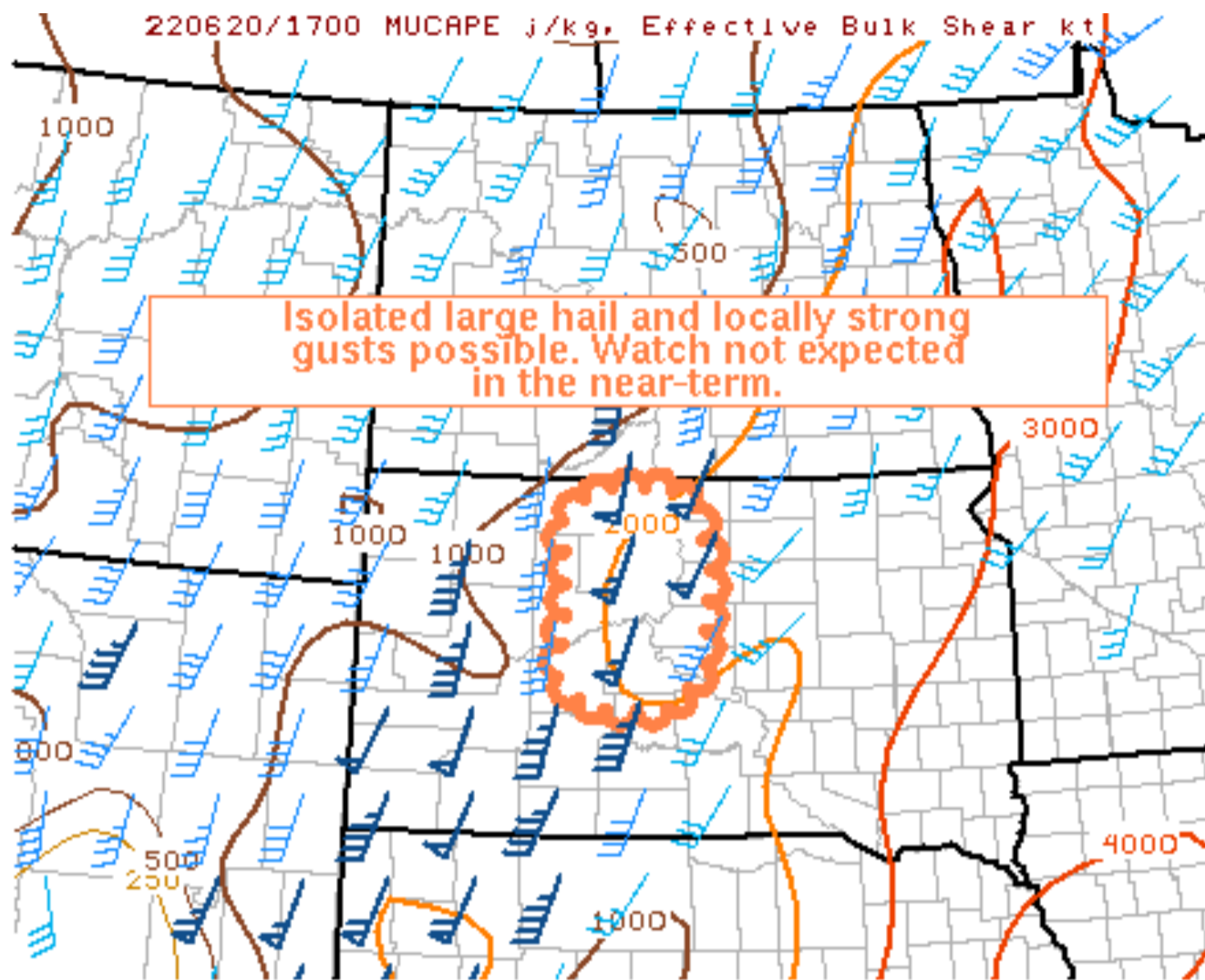
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Mesoscale Discussion 1231

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Mesoscale Discussion 1231
 NWS Storm Prediction Center Norman OK
 1255 PM CDT Mon Jun 20 2022

Areas affected...Parts of north-central South Dakota

Concerning...Severe potential...Watch unlikely

Valid 201755Z - 201930Z

Probability of Watch Issuance...20 percent

SUMMARY...Isolated large hail and locally strong gusts are possible across parts of north-central South Dakota during the next couple hours. Watch issuance is not expected in the near-term.

DISCUSSION...Water vapor imagery shows an embedded shortwave impulse overspreading a moist/destabilizing airmass (upper 60s surface dewpoints) over parts of South Dakota. The large-scale ascent and continued surface heating has reduced convective inhibition, supporting isolated convective development over parts of north-central South Dakota. Steep midlevel lapse rates evident in the ABR/UNR 12Z soundings coupled with long/straight hodographs (45-55 kt of 0-6 km bulk shear per UDX VWP) are supporting organized updrafts capable of large hail and locally strong gusts. Current thinking is that this threat will remain localized and brief, and watch issuance is not expected.

..Weinman/Grams.. 06/20/2022

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

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