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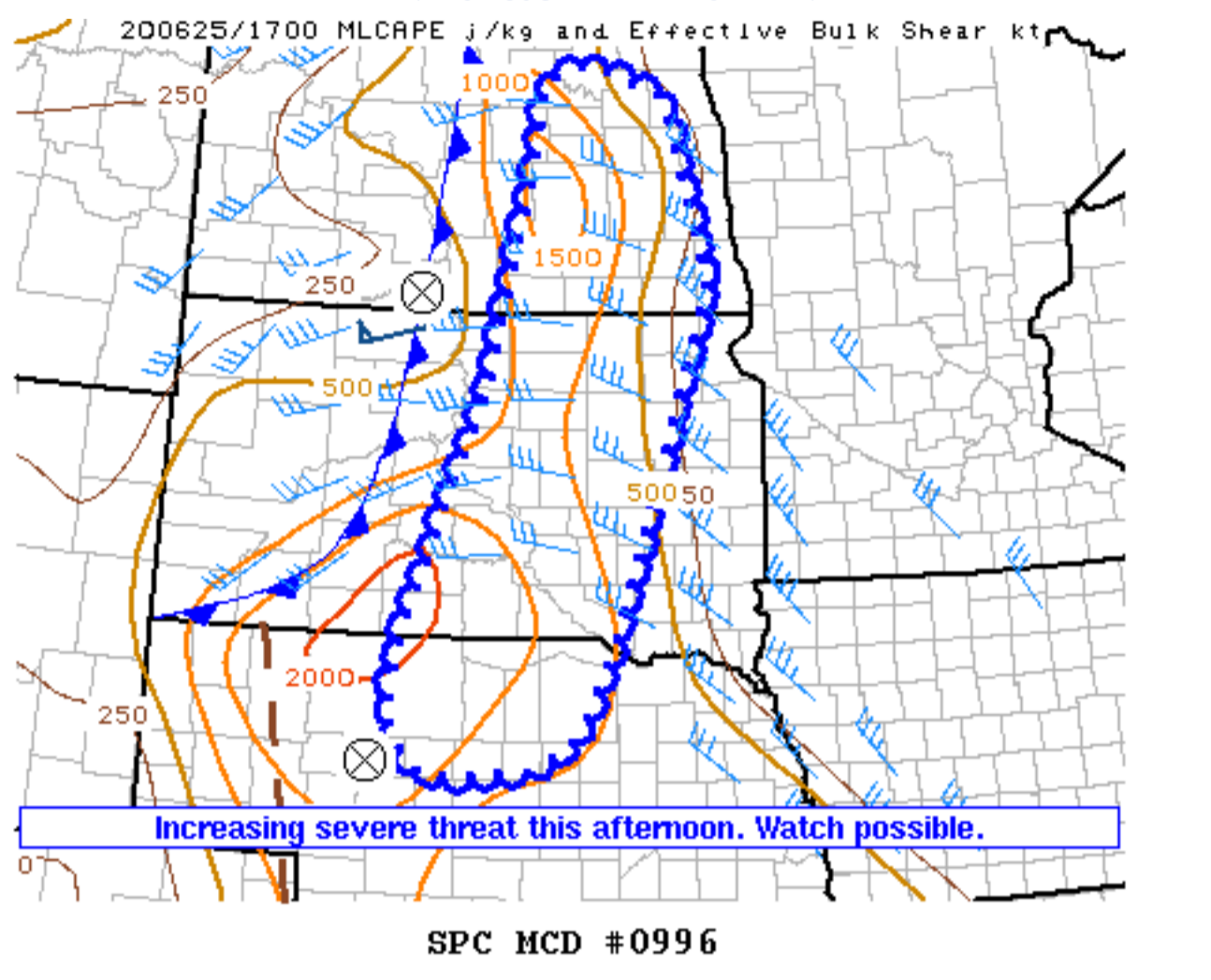
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Mesoscale Discussion 996

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Mesoscale Discussion 0996
NWS Storm Prediction Center Norman OK
0116 PM CDT Thu Jun 25 2020

Areas affected...Eastern North Dakota...central/eastern South Dakota...north-central Nebraska

Concerning...Severe potential...Watch possible

Valid 251816Z - 252015Z

Probability of Watch Issuance...60 percent

SUMMARY...Storms in northeastern ND have intensified along a weak warm front. farther south and west, boundary-layer destabilization continues ahead of the cold front and MCVs. Storm coverage and intensity is expected to increase this afternoon. Storms will be capable of large hail and damaging wind gusts. Supercell structures are possible and will pose the greatest risk for very large hail. A WW or two is possible in the next 1-2 hours.

DISCUSSION...Surface-based destabilization continues to increase ahead of a cold front across the central portion of the Dakotas. MCVs are also evident in satellite/radar imagery in south-central ND and central NE. Strong heating from southeastern ND into central Nebraska with dewpoints holding in the low 60s F should support MLCAPE of 2000-3000 J/kg this afternoon. Local enhancements to the mid-level flow by the MCVs will support effective shear of 30-40 kts. Large hail and damaging wind gusts are possible with as storm coverage and intensity increases this afternoon. A risk for very large hail will be present with any marginal supercells that develop. While scattered storm coverage is expected, there may be a relative minimum in coverage along the eastern ND/SD border as anvil debris from the MCV is more abundant in this area.

Across northeastern ND, storms have developed in what appears to be a weak warm advection regime along a weak warm frontal boundary. Cloud cover has been present all morning across much of this area and into northwestern Minnesota. The southern fringe of that activity may continue to remain intense with temperatures warming into the low 80s F in the immediate vicinity of the front. How long this activity progresses east remains in question.

Convective trends will continue to be monitored, but a WW or two may be proposed in the next 1-2 hours.

..Wendt/Thompson.. 06/25/2020

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

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