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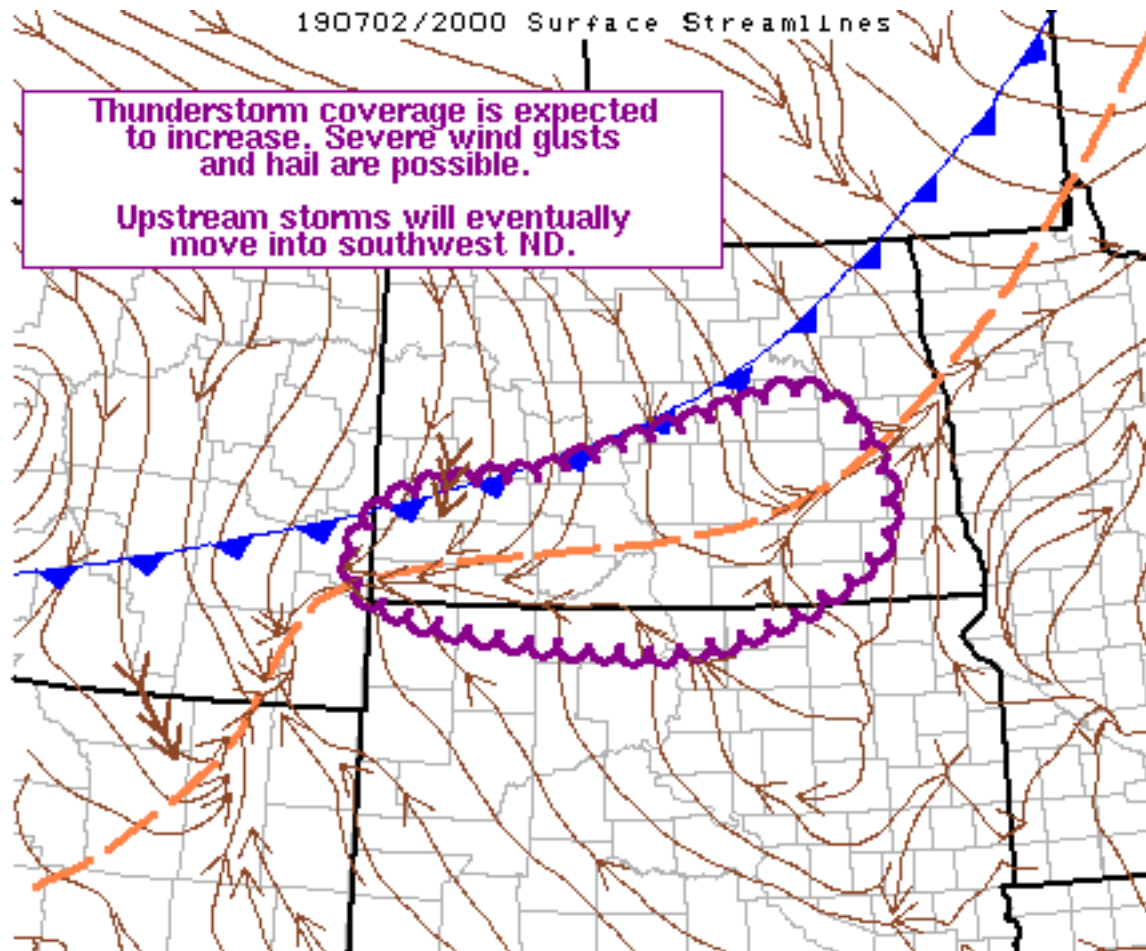
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Mesoscale Discussion 1344

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190702/2000 Surface Streamlines



SPC MCD #1344

Mesoscale Discussion 1344

NWS Storm Prediction Center Norman OK

0311 PM CDT Tue Jul 02 2019

Areas affected...Southern/Central ND...North-Central SD

Concerning...Severe potential...Watch likely

Valid 022011Z - 022145Z

Probability of Watch Issuance...80 percent

SUMMARY...Thunderstorm coverage is expected to increase across southern and central ND during the next hour or two. Severe wind gusts and hail are possible with the strongest storms. An additional threat for damaging wind gusts is possible later as the storms developing upstream move into southwest ND.

DISCUSSION...Recent visible satellite imagery shows deepening cumulus along a pre-frontal trough/wind shift across southern/central ND, ahead of an approaching cold front. Air mass in



this region is characterized by temperatures in the low/mid 80s, dewpoints in the mid 60s, and moderate buoyancy (i.e. MLCAPE around 1500 J/kg). Convergence along these boundaries, as well as strengthening large-scale forcing for ascent, is expected to result in eventual convective initiation.

Given that the large-scale ascent will be strongest over southwestern portions of the region, expectation is for the highest storm coverage to occur in this area. That being said, thermodynamic conditions are similar along the length of the front, and the cumulus cluster in Lamoure County ND suggests initiation may actually occur here first. Organized updrafts capable of severe wind gusts and hail are possible within the stronger storms.

Upstream storms developing in northeast WY/southeast MT will eventually move into southwest ND. These storms could be organized into a convective line when this occurs, resulting in an additional threat for severe wind gusts.

..Mosier/Grams.. 07/02/2019

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

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