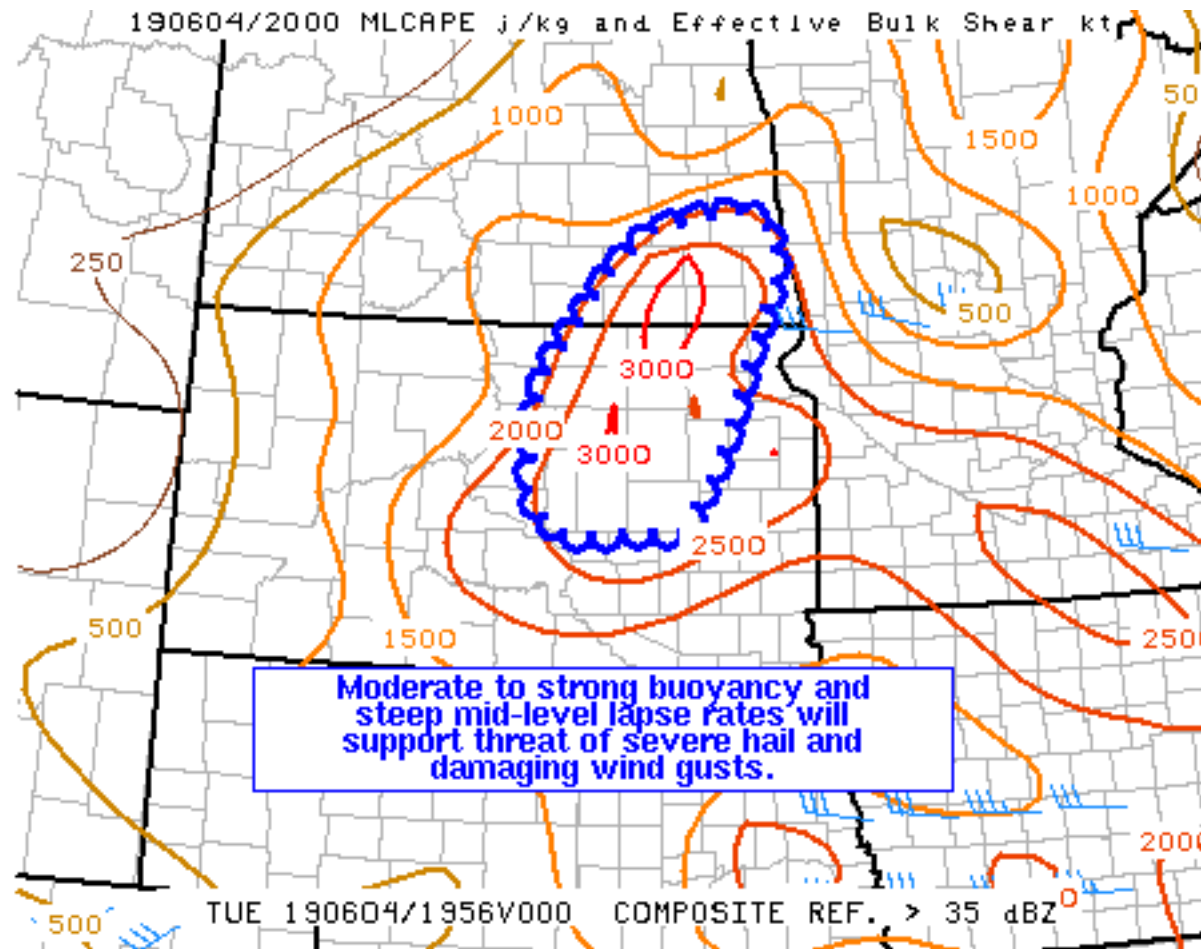


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Mesoscale Discussion 978

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SPC MCD #0978

Mesoscale Discussion 0978

NWS Storm Prediction Center Norman OK

0333 PM CDT Tue Jun 04 2019

Areas affected...Northeast South Dakota...southeast North Dakota

Concerning...Severe potential...Watch unlikely

Valid 042033Z - 042230Z

Probability of Watch Issuance...20 percent

SUMMARY...A few isolated to scattered storms are possible this afternoon as a weak cold front moves southeastward. A few instances of large hail and damaging wind gusts may occur. Given weak deep-layer shear, storms will struggle to organize. Some upscale growth may occur later this afternoon which would increase the threat for damaging wind gusts. Trends will need to be monitored for a more organized severe threat. At this time, a WW is not expected.

DISCUSSION...With weak mid-level ascent approaching, strong heating



ahead of a cold front coincident with mid to upper 60s dewpoints has helped initiate isolated thunderstorms west of Aberdeen, SD. MLCAPE of 2500-3000 J/kg and steep mid-level lapse rates will support a threat for large hail and perhaps a few damaging wind gusts. Very weak deep-layer shear will limit overall storm organization. Storms will likely struggle to maintain their intensity for longer durations. Should this activity congeal, a more organized damaging wind gust threat will develop. It is unclear how long any MCS that may develop would be able to maintain itself given how weak low-level shear is. Trends will continue to be monitored for any increase MCS organization. At this time, a WW is not expected.

..Wendt/Hart.. 06/04/2019

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

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