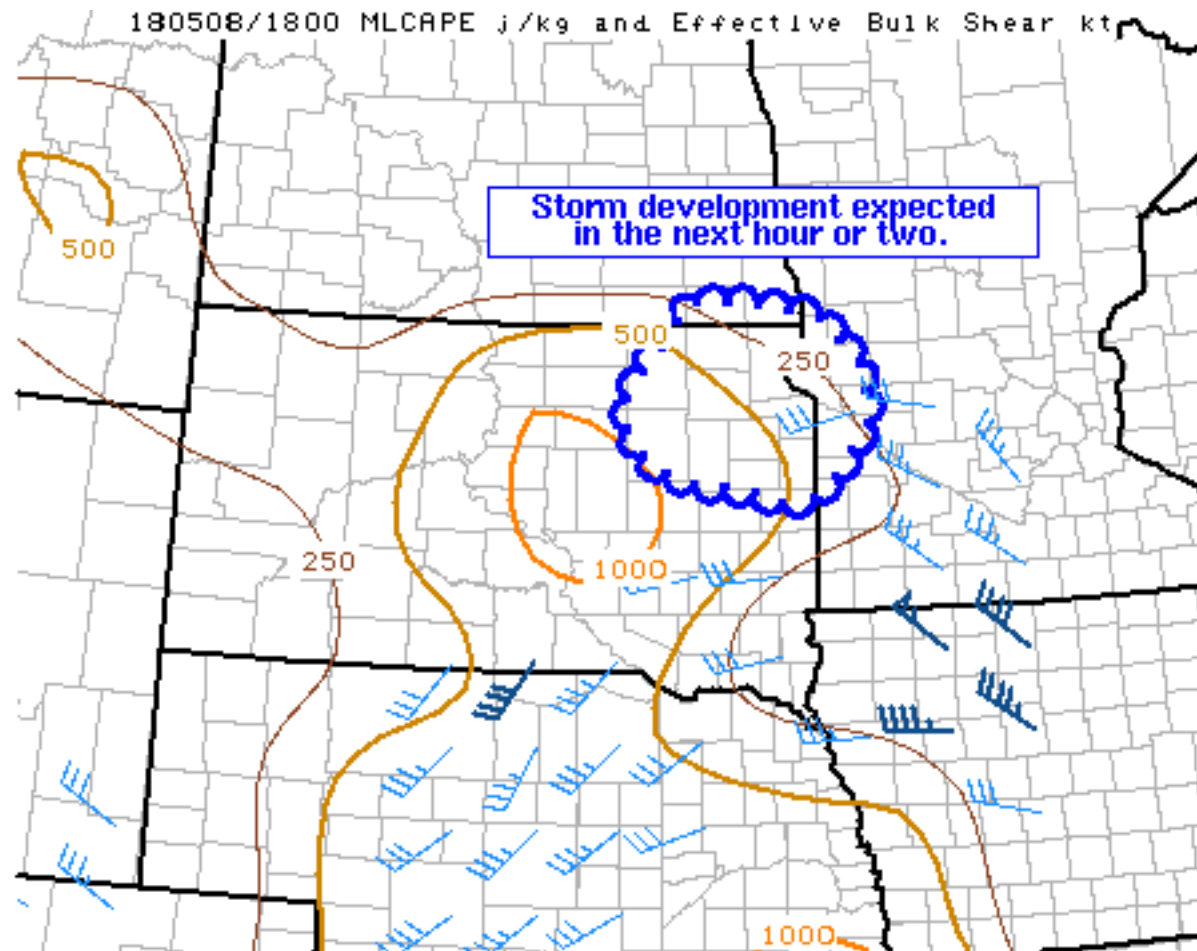


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## Mesoscale Discussion 367

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SPC MCD #0367

Mesoscale Discussion 0367

NWS Storm Prediction Center Norman OK

0258 PM CDT Tue May 08 2018

Areas affected...Northeast SD...far southeast ND...far western MN.

Concerning...Severe potential...Watch unlikely

Valid 081958Z - 082200Z

Probability of Watch Issuance...5 percent

SUMMARY...Storm development expected in the next hour or two. A watch is not expected.

DISCUSSION...Clearing in the wake of morning convection has led to destabilization in eastern SD. This area is characterized by an environment with surface dewpoints in the upper-50s and temperatures in the mid to upper-70s. A cumulus field developed in this area with a few areas of better towers starting to show up southeast of Aberdeen. Latest RAP mesoanalysis indicates the inhibition has just

about eroded across this area with MLCAPE around 1000 J/kg. Therefore, expect storms to develop within the next hour or two. Additional destabilization is expected northeast of these developing towers where solar insolation has led to rapid heating as morning clouds have cleared. Weak effective shear around 25 knots will lead to semi-organized multicell clusters as the primary mode. The main threat from these storms will be damaging winds due to the well-mixed, inverted-v sounding in the area. In addition, there will be an isolated risk of large hail as mid-level lapse rates have increased above 7 C/km. However, the steeper mid-level lapse rates will remain in far southern SD and eastern Nebraska.

..Bentley/Grams.. 05/08/2018

...Please see [www.spc.noaa.gov](http://www.spc.noaa.gov) for graphic product...

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