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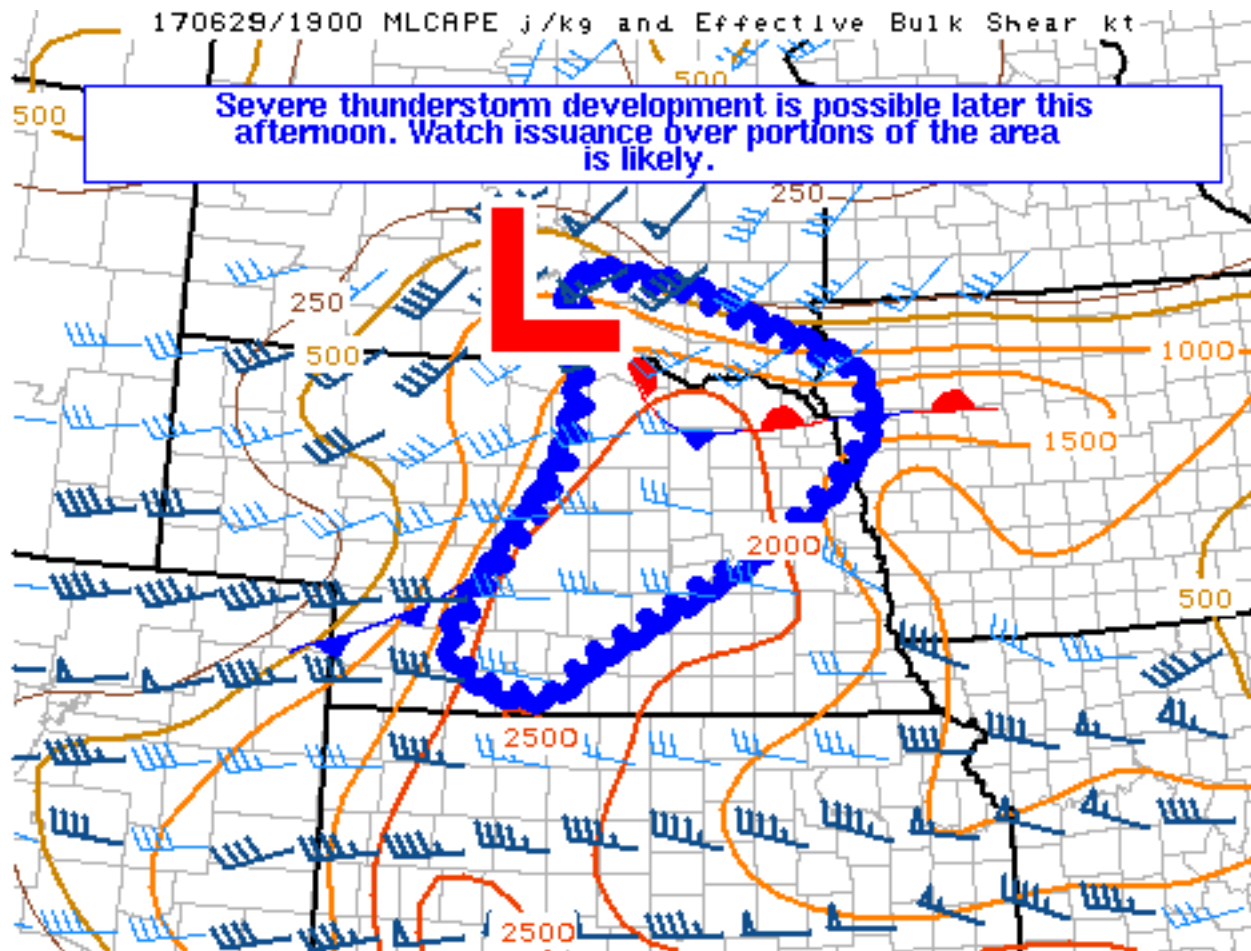
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## Mesoscale Discussion 1185

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SPC MCD #1185

Mesoscale Discussion 1185

NWS Storm Prediction Center Norman OK

0226 PM CDT Thu Jun 29 2017

Areas affected...Central into northeast NE...Southeast SD...Northwest IA

Concerning...Severe potential...Watch likely

Valid 291926Z - 292100Z

Probability of Watch Issuance...80 percent

SUMMARY...At least isolated severe thunderstorm development appears likely later this afternoon. Large hail and damaging wind will be the primary threat. Watch issuance is likely for portions of the area.

DISCUSSION...Tomwering cumulus has developed along a cold front across portions of southwest into north-central NE. With time, scattered thunderstorm development is expected along the front, and

also in the vicinity of an outflow boundary running from northwest IA into northeast NE/southeast SD, as a midlevel vort max over western SD moves eastward through the afternoon. While the 18Z OAX sounding still exhibits the effects of the nocturnal MCS across KS/MO, more substantial recovery has likely occurred farther west, with strong heating and steep midlevel lapse rates supporting moderate MLCAPE of 1500-2500 J/kg, while westerly midlevel flow is sufficient to support effective shear of 35-45 kt.

Initial supercell development is possible both along the front and the outflow boundary. Isolated instances of very large hail in excess of 2 inches in diameter will be possible, along with isolated damaging wind gusts. A tornado or two also will be possible with any supercells that interact with the outflow boundary across northeast NE/northwest IA. With time, some upscale growth is possible with an increasing threat of damaging wind. Watch issuance is likely later this afternoon to cover these threats.

..Dean/Guyer.. 06/29/2017

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

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