



Local forecast by "City, St" or "ZIP"

City, St



NCEP Quarterly Newsletter

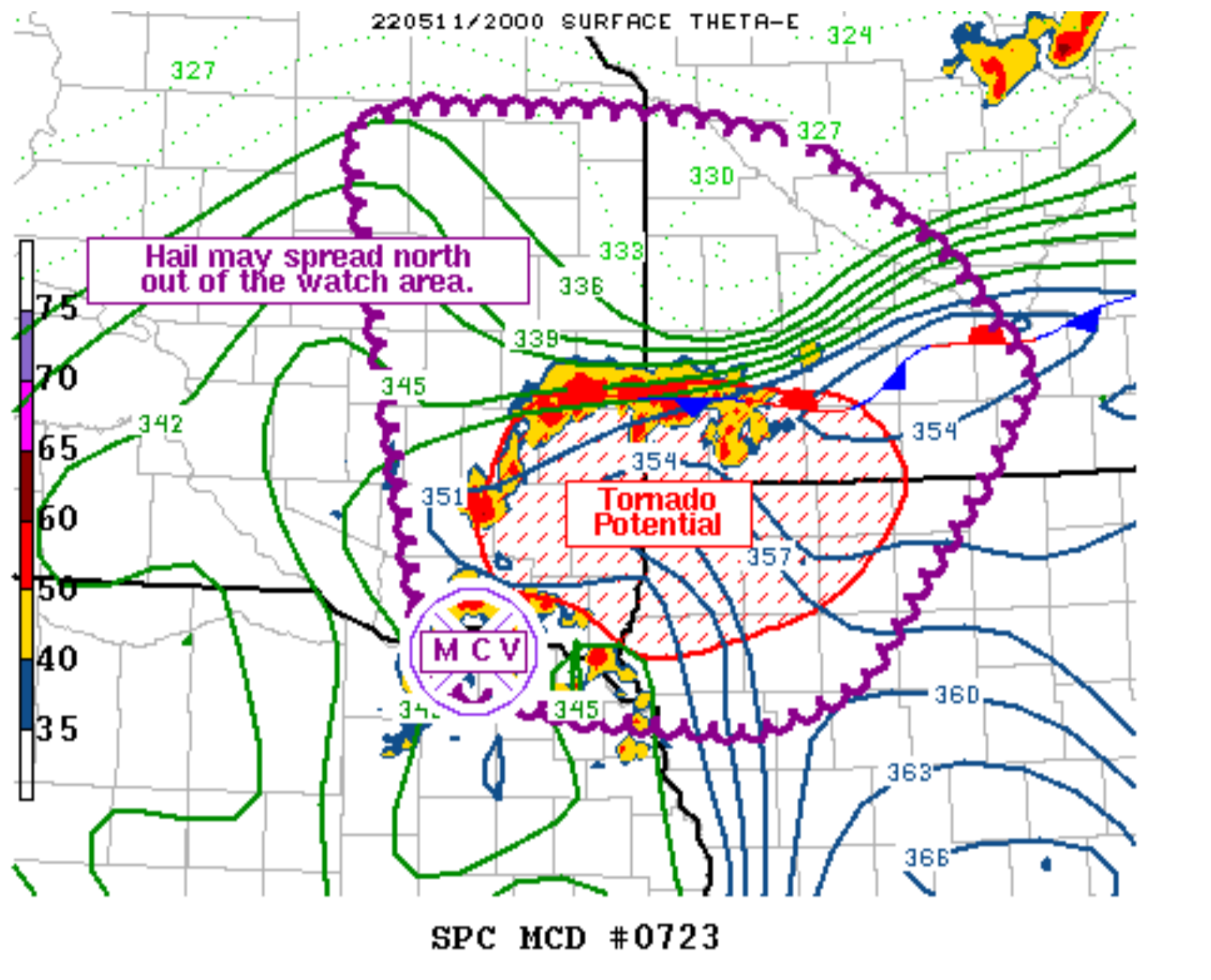
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Mesoscale Discussion 723

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220511/2000 SURFACE THETA-E



Mesoscale Discussion 0723
 NWS Storm Prediction Center Norman OK
 0352 PM CDT Wed May 11 2022

Areas affected...eastern South Dakota...southwest Minnesota...northwest Iowa

Concerning...Tornado Watch [202](#)...

Valid 112052Z - 112245Z

The severe weather threat for Tornado Watch 202 continues.

SUMMARY...A severe hail, wind, and tornado risk persist mainly from southeast South Dakota into southwest Minnesota. Hail may eventually occur north of the tornado watch.

DISCUSSION...An MCV continues to move rapidly north, now crossing the MO River out of northeast NE, with arcing line of storms extending southeastward along the valley. Meanwhile, other storms currently extend from west of FSD north and eastward into southwest MN near the warm front.

Surface observations show a cool boundary layer along the warm front, which has recently become reinforced by outflows. In addition, dewpoints continue to fall in the well-mixed air across IA. The result is a relatively narrow zone of tornado potential over the next few hours, from southeast SD eastward along the front into southern MN. Any supercells in this zone may produce a brief tornado, but meridional flow aloft near the MCV may push cells quickly north of the boundary where they will become elevated.

Other storms nearing northern parts of the watch may persist in elevated fashion, with substantial elevated instability supporting a hail risk as deep-layer effective shear favors severe hail.

..Jewell.. 05/11/2022

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

ATTN...WFO...MPX...DMX...FSD...OAX...ABR...

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 45039543 44529456 43969404 43569430 43049478 42599515
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