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City, St

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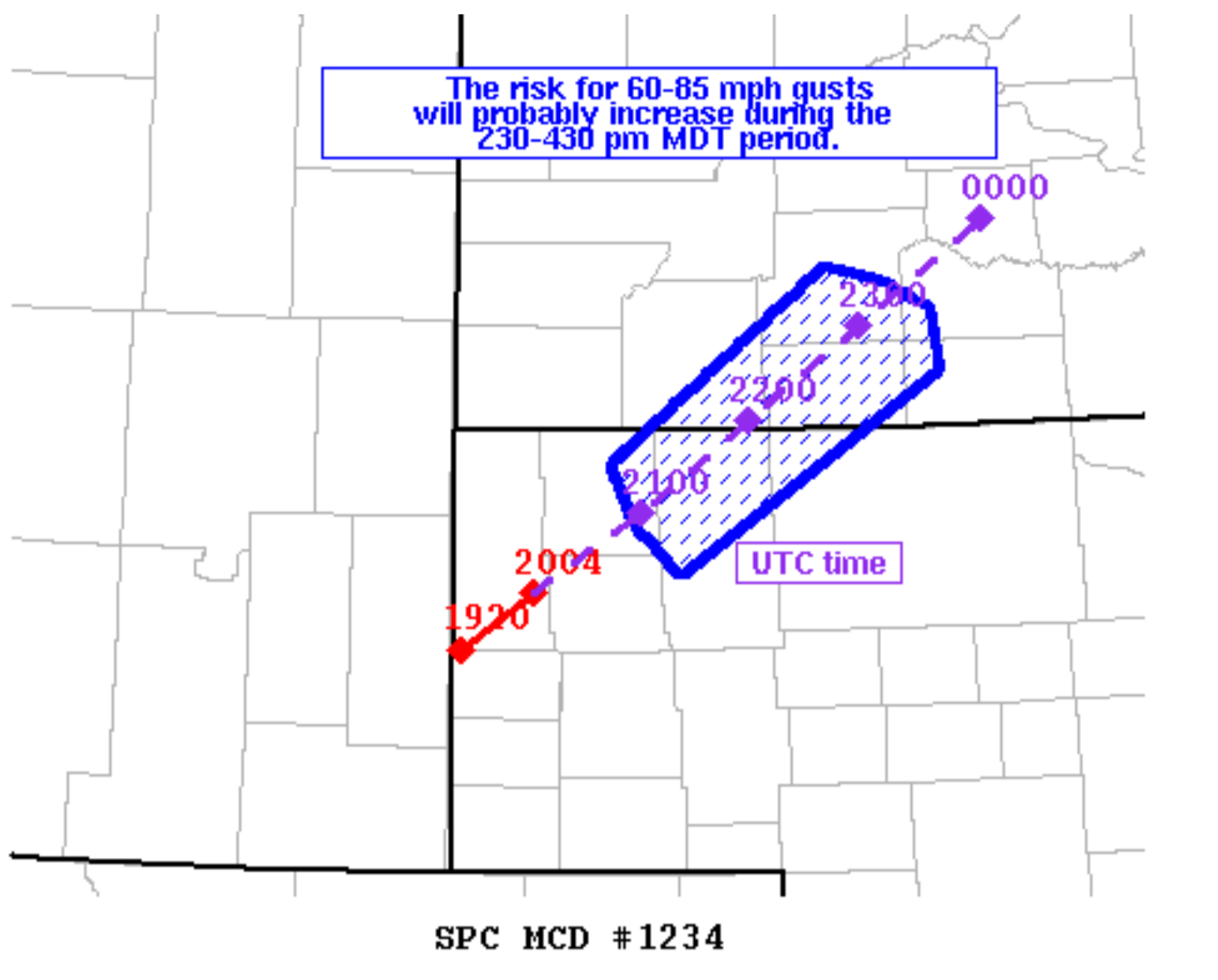
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Mesoscale Discussion 1234

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Mesoscale Discussion 1234
NWS Storm Prediction Center Norman OK
0326 PM CDT Mon Jun 20 2022

Areas affected...northwest NE...southwest SD

Concerning...Severe Thunderstorm Watch 393...

Valid 202026Z - 202230Z

The severe weather threat for Severe Thunderstorm Watch 393 continues.

SUMMARY...The risk for 60-85 mph gusts will probably increase during the 230-430pm MDT period as a cluster of storms likely begins evolving into a bowing segment.

DISCUSSION...Radar mosaic imagery shows a cluster of storms congealing over the northern part of the NE Panhandle as of 220pm MDT. CAPPI imagery from 10 km ARL shows a couple of intense discrete updrafts embedded within the cluster.

Surface analysis shows weak northerly flow which is maintaining relatively moist low levels (dewpoints ranging from near 60 deg F to the mid 60s near I-90). Objective analysis indicates 1500-2000 J/kg MLCAPE from the northern part of the NE Panhandle northeastward into central SD. Long hodographs and the approach of increasing forcing for ascent/flow associated with the approaching mid-level shortwave trough, will probably aid in an acceleration in storm motion to the northeast over the next few hours. The strong heating and steep low-level lapse rates ahead of the storm activity will likely prime the boundary layer for severe gust potential through the late afternoon. As the storm mode evolution transitions to a mix of embedded cells into a bowing structure, expecting an increase in both the intensity and coverage of severe gusts. Peak gusts could range 75-85 mph.

..Smith.. 06/20/2022

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

ATTN...WFO...LBF...UNR...CYS...

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