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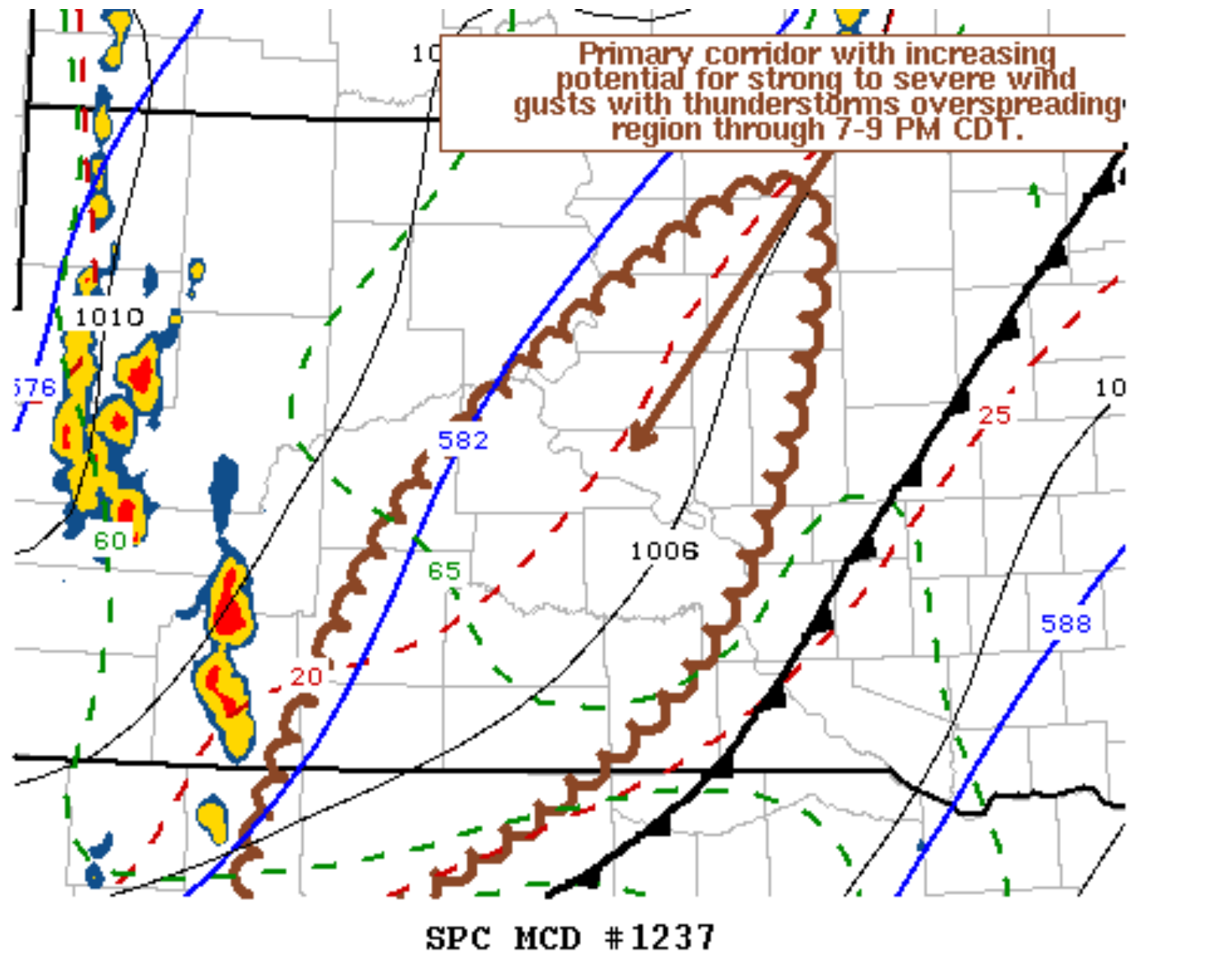
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## Mesoscale Discussion 1237

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Mesoscale Discussion 1237  
NWS Storm Prediction Center Norman OK  
0514 PM CDT Mon Jun 20 2022

Areas affected...parts of northwestern Nebraska through central South Dakota

Concerning...Severe Thunderstorm Watch [393](#)...[395](#)...

Valid 202214Z - 202345Z

The severe weather threat for Severe Thunderstorm Watch 393, 395 continues.

SUMMARY...Thunderstorms are expected to intensify and organize further while spreading across the central South Dakota Missouri Valley, including the Pierre vicinity, through 7-9 PM CDT. This may be accompanied by increasing potential for strong to locally severe wind gusts.

DISCUSSION...Thunderstorms have been generally maintaining strength as they begin to spread northeast of the Black Hills and Nebraska Panhandle vicinity. Activity is accompanying forcing for ascent with a short wave impulse, and an associated mid-level speed maximum (including 30-50+ kt in the 700-500 mb layer) which is forecast to nose north-northeastward (near/northwest of Valentine NE) through much of central South Dakota by 01-02Z.

Although low/mid-level lapse rates within the more moist post-frontal regime are not particularly steep, profiles are supportive of moderate CAPE on the order of 1500-2500 J/kg. Given the background environment flow and shear, northerly to northeasterly inflow of this air probably will support further thunderstorm intensification and organization during the next few hours. As this occurs, the risk for strong convective gusts, including a few exceeding severe limits, seems likely to increase.

..Kerr.. 06/20/2022

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

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