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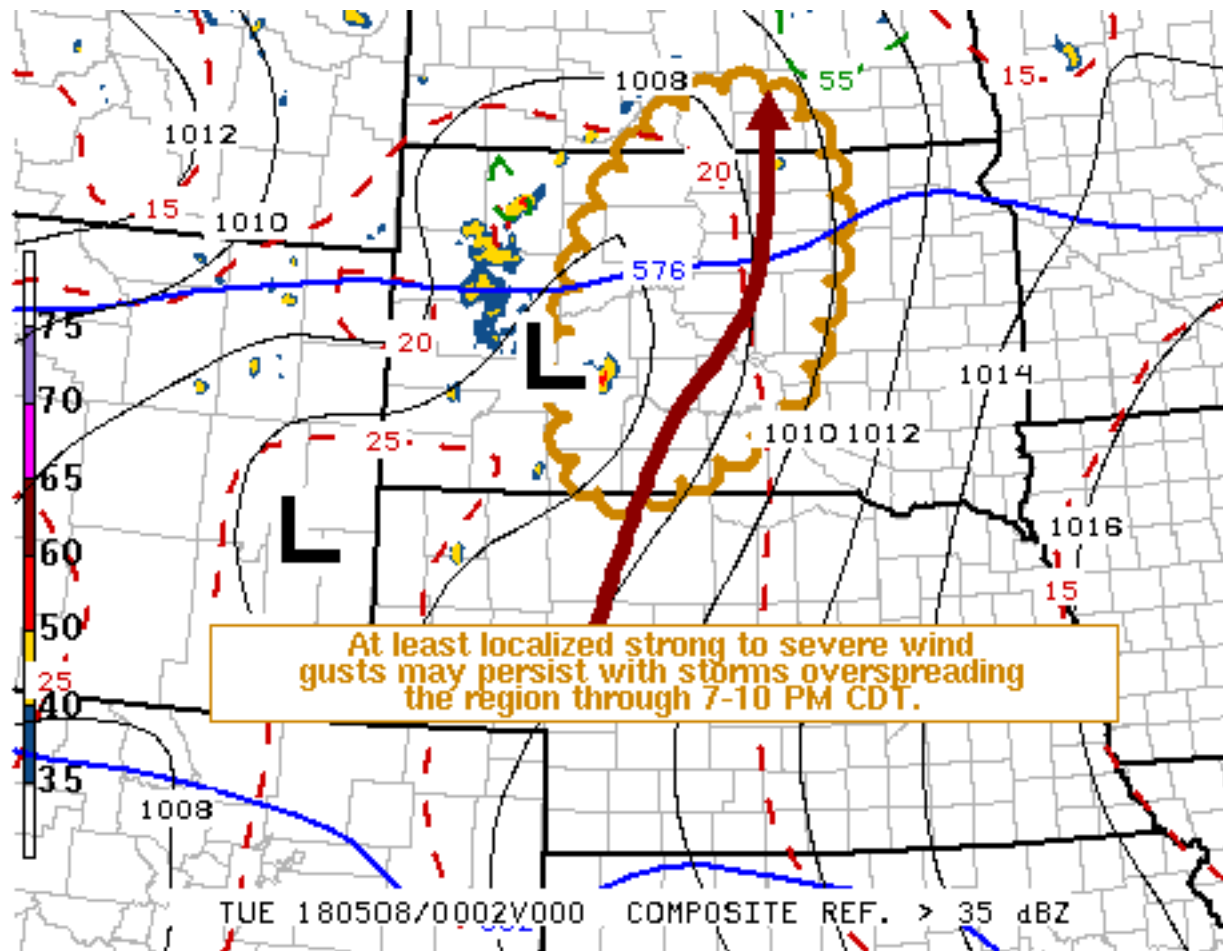
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SPC MCD #0366

Mesoscale Discussion 0366

NWS Storm Prediction Center Norman OK

0717 PM CDT Mon May 07 2018

Areas affected...Much of central South Dakota and adjacent North Dakota

Concerning...Severe potential...Watch unlikely

Valid 080017Z - 080215Z

Probability of Watch Issuance...20 percent

SUMMARY...At least a risk for localized strong surface gusts is expected to persist with thunderstorm activity spreading eastward across the region through the 7-10 PM CDT time frame. A short-lived period with increasing thunderstorm organization and more widespread strong gusts is possible, but it still seems unlikely that a severe weather watch will be needed.

DISCUSSION...Thunderstorm activity, including isolated strong to

severe cells, continues to develop east of the higher plains and Black Hills, perhaps associated with at least one smaller scale perturbation embedded within the broad/low amplitude mid/upper wave progressing across and east of the Rockies. Aided by forcing associated with lower/mid tropospheric warm advection, in the presence of modest mixed-layer CAPE (up to around 1000 J/kg), this may persist across much of central South Dakota and adjacent portions of North Dakota through the 01-03Z time.

Deep layer shear is also fairly modest across the region, but the lingering relatively strongly heated and deeply mixed boundary layer probably will remain favorable to localized strong surface gusts approaching or briefly exceeding severe limits. Some coincidental further strengthening of a southerly 850 mb jet from 30-40 kt is forecast, and this could provide a window of opportunity for increasing convective organization with a consolidating cold pool. However, any such development is generally expected to be short-lived, before activity begins to ingest more stable and/or stabilizing boundary layer across the lower Plains later this evening.

..Kerr/Hart.. 05/08/2018

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

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