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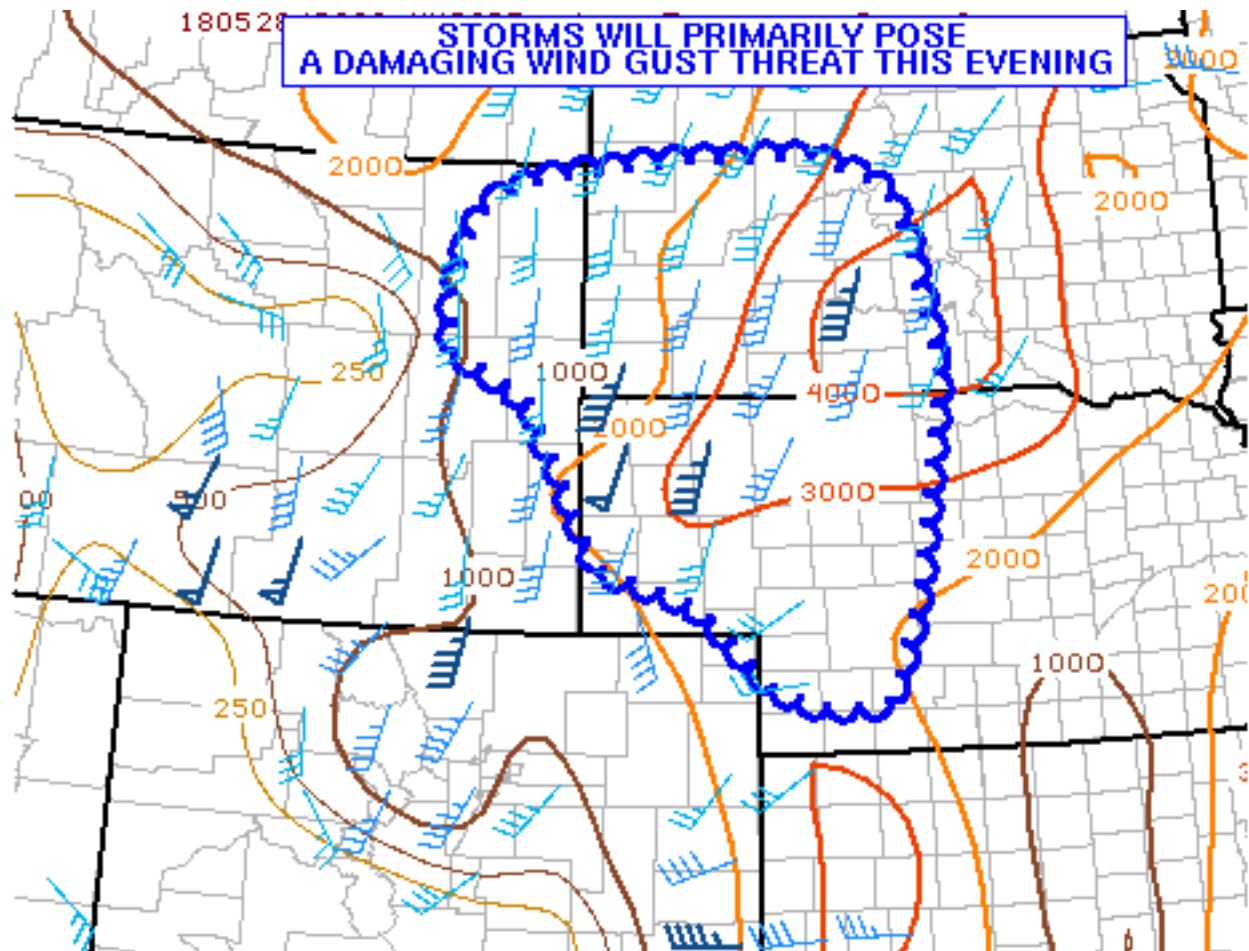
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## Mesoscale Discussion 548

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SPC MCD #0548

Mesoscale Discussion 0548

NWS Storm Prediction Center Norman OK

0831 PM CDT Sun May 27 2018

Areas affected...Western and central South Dakota...eastern Wyoming...southwestern Nebraska and Nebraska Panhandle

Concerning...Severe Thunderstorm Watch [123](#)...[125](#)...[126](#)...

Valid 280131Z - 280330Z

The severe weather threat for Severe Thunderstorm Watch 123, 125, 126 continues.

SUMMARY...Damaging wind gusts will continue to be the primary threat this evening with an isolated large hail risk. A local extension in time of [WW 123](#) may be needed in the western Nebraska Panhandle.

DISCUSSION...Storms ongoing from eastern Wyoming into western/central Nebraska have generally become more linear over the past two hours. 00Z soundings from LBF and UNR both show steep

mid-level lapse rates in place ahead of this activity. KLNK VAD profile shows around 40 kts of deep-layer shear which is in agreement with RAP analysis showing 30-40 kts of effective bulk shear in northeast Colorado and 45-50 kts in northwest Nebraska into western South Dakota. A continued threat for damaging wind gusts will exist for at least the next few hours while the boundary layer is cooling and surface-based CIN is increasing. However, shear values are sufficient for continued storm organization and MUCAPE values are still ample at 1000-4000 J/kg. A local extension in time of [WW 123](#) may be needed for an hour or two in the western Nebraska Panhandle for the ongoing severe threat.

..Wendt/Gleason.. 05/28/2018

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

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                  44340016 43560000 43289987 42400005 41340022 40420057  
                  40370122 40550186 41250265 41580378 42070410 43000468  
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