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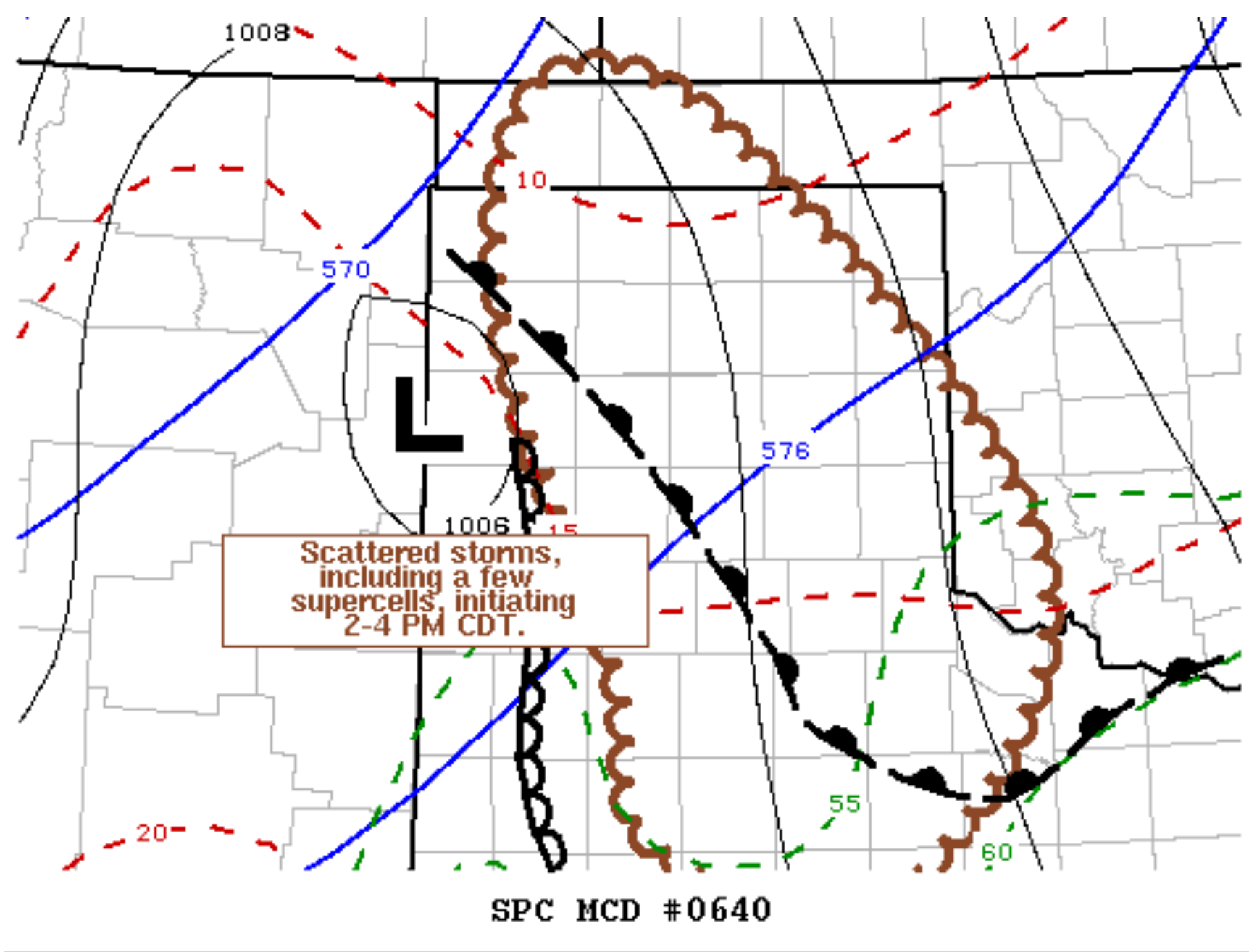
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## Mesoscale Discussion 640

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Mesoscale Discussion 0640  
 NWS Storm Prediction Center Norman OK  
 1233 PM CDT Wed May 04 2022

Areas affected...Parts of the Texas and Oklahoma Panhandle vicinity

Concerning...Severe potential...Tornado Watch likely

Valid 041733Z - 042030Z

Probability of Watch Issuance...80 percent

**SUMMARY...**Scattered strong thunderstorms, including a few supercells, appear likely to initiate within the next few hours, posing a risk for large, damaging hail and perhaps a couple of tornadoes through 2-4 PM CDT.

**DISCUSSION...**Large-scale mid/upper troughing, with a number of embedded short wave perturbations, continues to slowly shift across and east of the Rockies. The leading edge of this cyclonic regime is already overspreading the higher plains, including the Panhandles vicinity into Texas South Plains, where southwesterly wind speeds are increasing in excess of 50 kt around the 500 mb level.

Within deepening surface troughing to the lee of the southern Rockies, stronger daytime heating and mixing is increasingly underway. As this continues, the dryline will continue to sharpen in a corridor across the Texas South Plains, into the vicinity of a zone of continuing differential surface heating, west of Childress northwestward toward Dalhart.

Moistening along and east of these boundaries, and steepening lapse rates associated with stronger heating to the west, will continue to contribute to rapid destabilization during the next few hours. Various model output, including the last few runs of the high-resolution Rapid Refresh, suggest that storms probably will begin to initiate by 19-21Z. Supercell development may be fairly rapid, with initial storms posing a risk for large, potentially damaging hail. A couple of tornadoes are also possible, but the more substantive tornado potential probably will evolve later this afternoon into the evening.

..Kerr/Smith.. 05/04/2022

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

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