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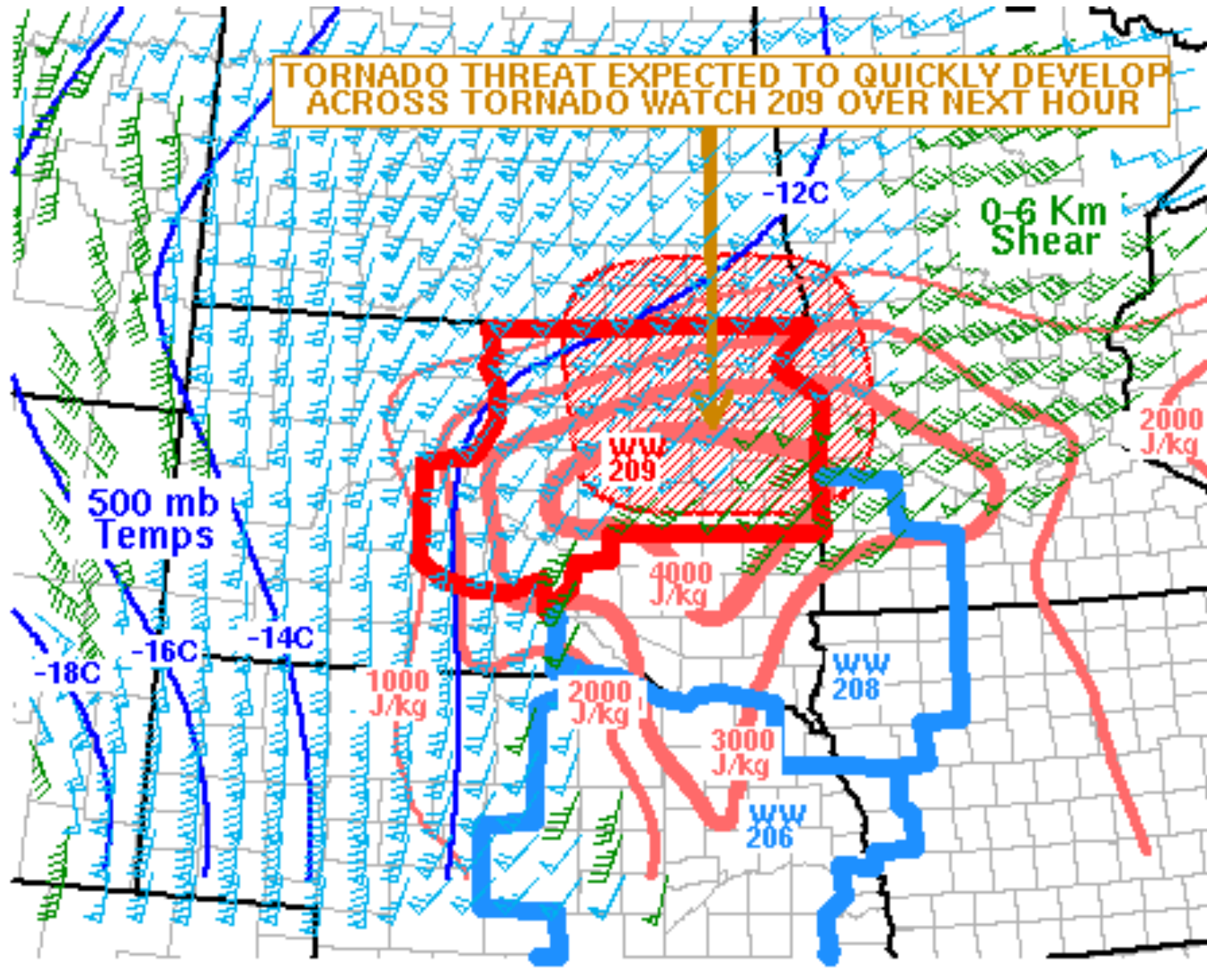
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## Mesoscale Discussion 742

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SPC MCD #0742

Mesoscale Discussion 0742  
NWS Storm Prediction Center Norman OK  
0523 PM CDT Thu May 12 2022

Areas affected...Central and Eastern South Dakota

Concerning...Tornado Watch 209...

Valid 122223Z - 130030Z

The severe weather threat for Tornado Watch 209 continues.

SUMMARY...The tornado threat is expected to quickly develop across parts of northeastern South Dakota over the next hour. The threat will spread northward with time and increase, especially in the northern and eastern parts of WW 209.

DISCUSSION...The latest radar imagery from Aberdeen, South Dakota shows a severe line segment producing widespread wind damage located across southeastern South Dakota. More discrete cells are developing on the northwestern edge of the line about 50 miles from south to southwest of Aberdeen. The storms are ongoing in an extremely unstable environment with MLCAPE in the 4000 to 5000 J/kg range. In addition, the Aberdeen WSR-88D VWP has 0-6 km shear near 50 knots with 0-3 km storm relative helicity around 400 m2/s2. This along with a looping hodograph will be favorable for supercells and tornadoes over the next one to two hours. The tornado threat will likely increase due to a strengthening low-level jet as the storms move across northeastern South Dakota. A strong tornado will be possible with any supercell that can become dominant.

The storms will move into southeastern North Dakota and into parts of western Minnesota over the next hour, where a new weather watch will be issued shortly.

..Broyles.. 05/12/2022

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

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