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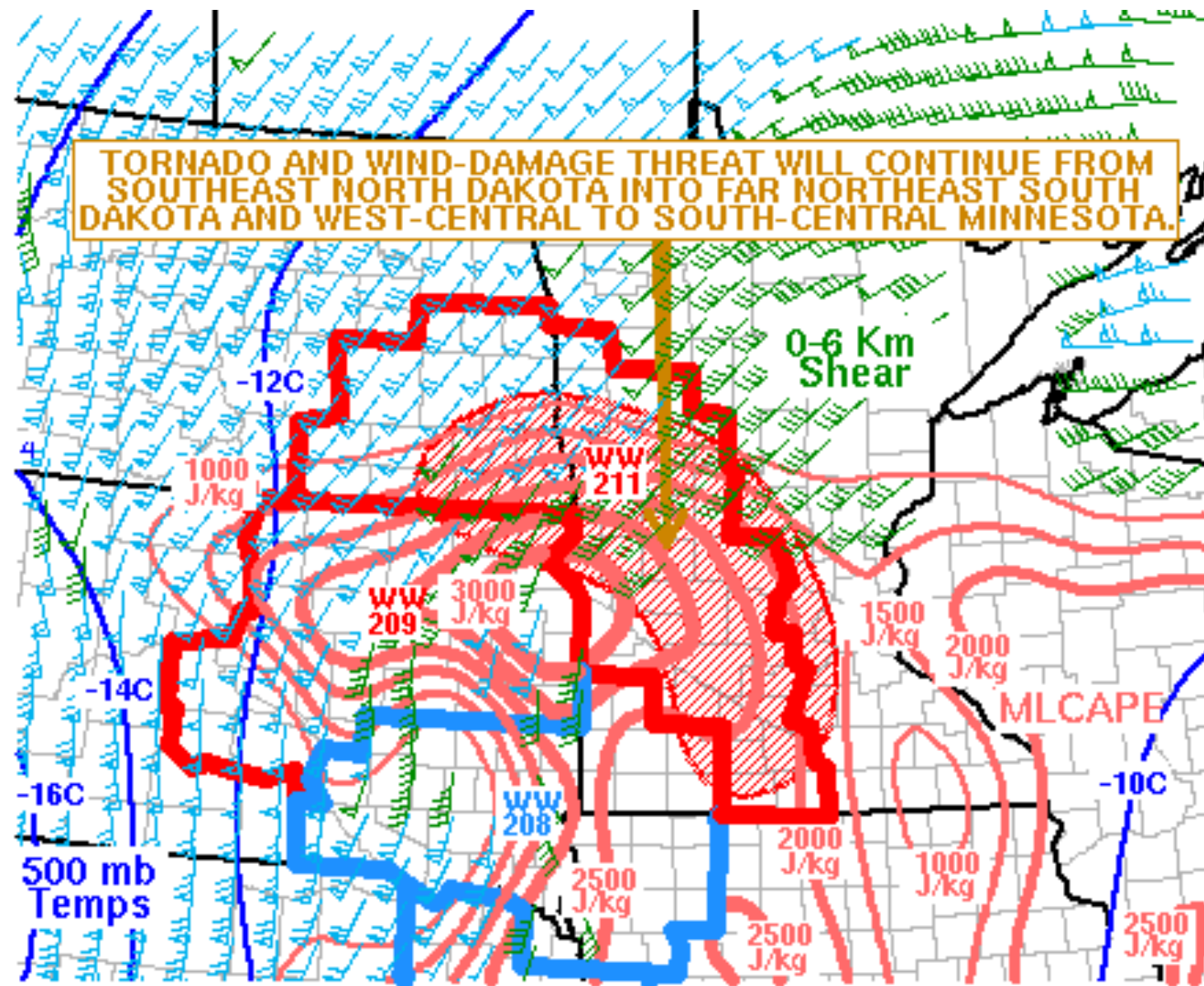
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Mesoscale Discussion 746

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SPC MCD #0746

Mesoscale Discussion 0746
NWS Storm Prediction Center Norman OK
0712 PM CDT Thu May 12 2022

Areas affected...Far Northeast South Dakota...Southeast North Dakota...West-central to South-central Minnesota

Concerning...Tornado Watch 211...

Valid 130012Z - 130215Z

The severe weather threat for Tornado Watch 211 continues.

SUMMARY...A wind-damage and tornado threat will continue over the next couple of hours from far northeast South Dakota and southeast North Dakota into west-central and south-central Minnesota.

DISCUSSION...The latest high-resolution radar imagery from Aberdeen shows a severe synoptic-scale bowing line segment located from far northeast South Dakota extending eastward and southward across southwest Minnesota. The line is located to the northeast of a maxima of strong instability, where the RAP is analyzing MLCAPE in the 2500 to 3500 J/kg range. The line of severe storms will continue to move northeastward into a strengthening 50 to 60 knot low-level jet. The jet was creating strong low-level shear, with 0-3 km storm relative helicity at Minneapolis and Aberdeen above 300 m²/s². This combined with 50 to 60 knots of deep-layer shear will continue to be favorable for severe thunderstorms over the next couple of hours. The low-level jet will continue to increase in strength early this evening, which will support a tornado threat with supercells and bowing line segments. Also, the line was moving northeastward at 65 to 70 knots, which will be very favorable for damaging wind gusts. Isolated wind gusts of over 70 knots will be possible ahead of the more intense portions of the line.

..Broyles.. 05/13/2022

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

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