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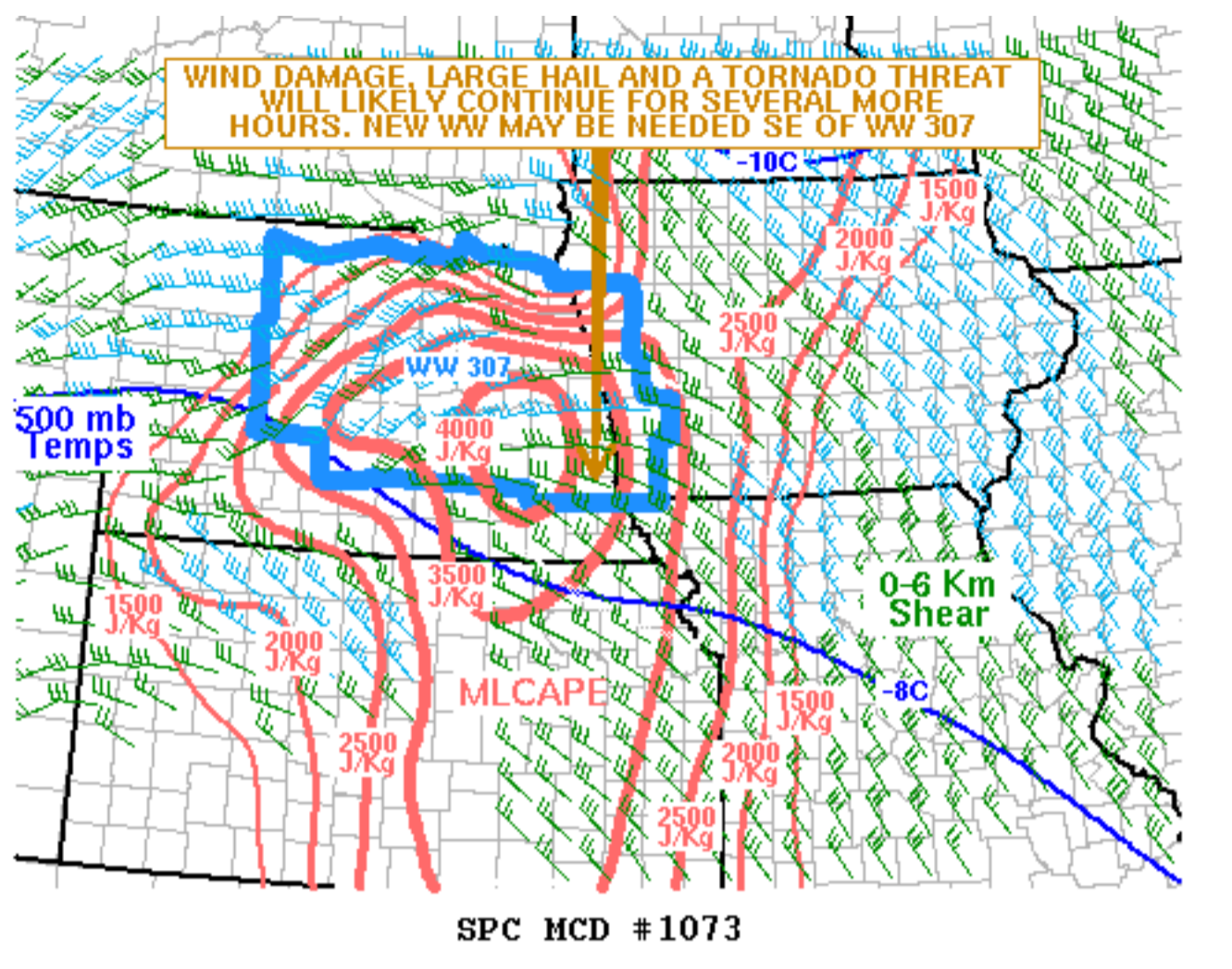
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 - Storm Reports
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Mesoscale Discussion 1073

[< Previous MD](#) [Next MD >](#)



SPC MCD #1073

Mesoscale Discussion 1073
 NWS Storm Prediction Center Norman OK
 0136 AM CDT Thu Jun 24 2021

Areas affected...Eastern Nebraska...Far Northeast Kansas...Northwest Missouri...Southwest Iowa

Concerning...Severe Thunderstorm Watch [307](#)...

Valid 240636Z - 240830Z

The severe weather threat for Severe Thunderstorm Watch 307 continues.

SUMMARY...A potential for wind damage, isolated large hail and a brief tornado will likely continue for several more hours. As the MCS in northeast Nebraska moves southeastward toward the edge of weather watch 307, a new watch will need to be considered.

DISCUSSION...The latest high-resolution radar imagery from Omaha shows a well-developed bowing line segment located in northeast Nebraska. A pronounced surface high-low couplet is evident behind the bowing segment. Surface dewpoints ahead of the line are generally in the lower 70s F, which is contributing to strong instability. The RAP is analyzing a pocket of MLCAPE between 4000 and 4500 J/Kg. In addition, the Omaha WSR-88D VWP shows strong directional shear in the low-levels with some speed shear in the mid to upper levels. This wind profile along with a strong rear inflow jet will continue support the bowing line segment as it moves quickly southeastward across eastern Nebraska over the next couple of hours. Wind damage will be likely along the leading edge with wind gusts above 70 knots possible. Recently, the BVN observing site reported a wind gust at 73 knots. Large hail and a brief tornado will also be possible with the more intense rotating cells embedded in the line. The line is expected to exit weather watch 307 by 09Z. As it approaches the edge of the watch, a new watch will need to be considered further downstream.

..Broyles/Edwards.. 06/24/2021

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

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