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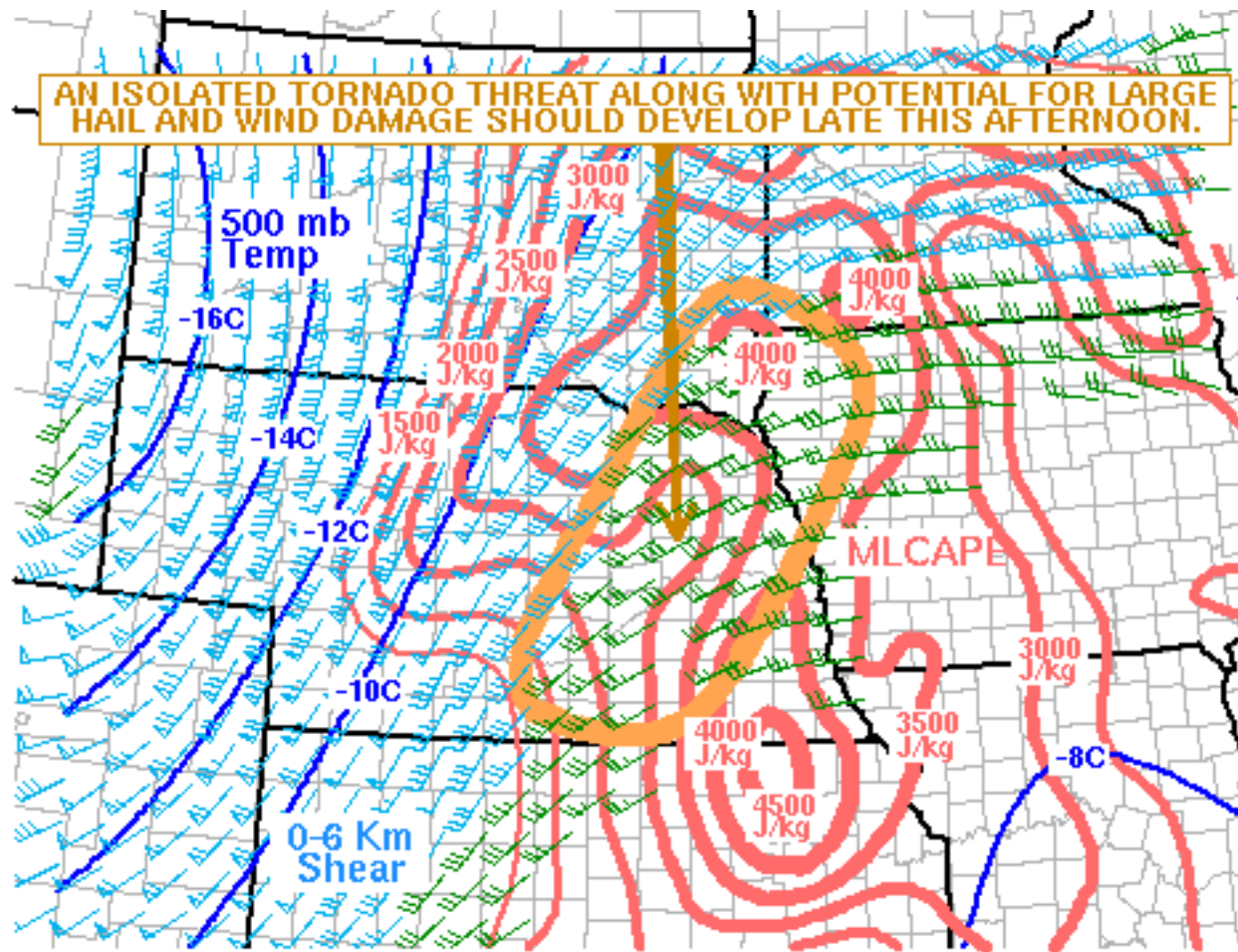
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Mesoscale Discussion 1015

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SPC MCD #1015

Mesoscale Discussion 1015
 NWS Storm Prediction Center Norman OK
 0346 PM CDT Tue Jun 13 2017

Areas affected...ofk

Concerning...Severe potential...Watch likely

Valid 132046Z - 132315Z

Probability of Watch Issuance...80 percent

SUMMARY...A severe threat is expected to develop late this afternoon from southern Nebraska northeastward into far southeastern South Dakota and northwest Iowa. An isolated tornado threat along with a potential for large hail and wind damage will be possible as cells initiate and increase in coverage over the next couple of hours. Weather watch issuance will likely be needed.

DISCUSSION...The latest surface analysis shows a 999 mb low over central Nebraska with a moist airmass in place to the east of the

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low. Surface dewpoints are in the mid 60s to lower 70s F across southern and eastern Nebraska into western Iowa. This is contributing to a corridor of strong instability with MLCAPE values estimated by the RAP to be in the 2000 to 4000 J/kg range across the MCD area. In addition, a belt of strong low-level flow is analyzed by the RAP across eastern Nebraska extending north-northeastward into far southeastern North Dakota and northwestern Iowa. As this feature strengthens over the next few hours, new surface-based cells are forecast to initiate from near Norfolk south-southwestward to near Grand Island. Forecast soundings across this area late this afternoon show moderate deep-layer shear with some directional shear in the low-levels. This is creating 0-6 km shear in the 30 to 40 kt range according to the RAP which will support supercell development. The shear along with strong instability and steep low to mid-level lapse will be favorable for large hail and wind damage with supercells and short line segments. Hail greater than 2 inches in diameter along with a tornado threat may accompany the more dominant supercells.

..Broyles/Hart.. 06/13/2017

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

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