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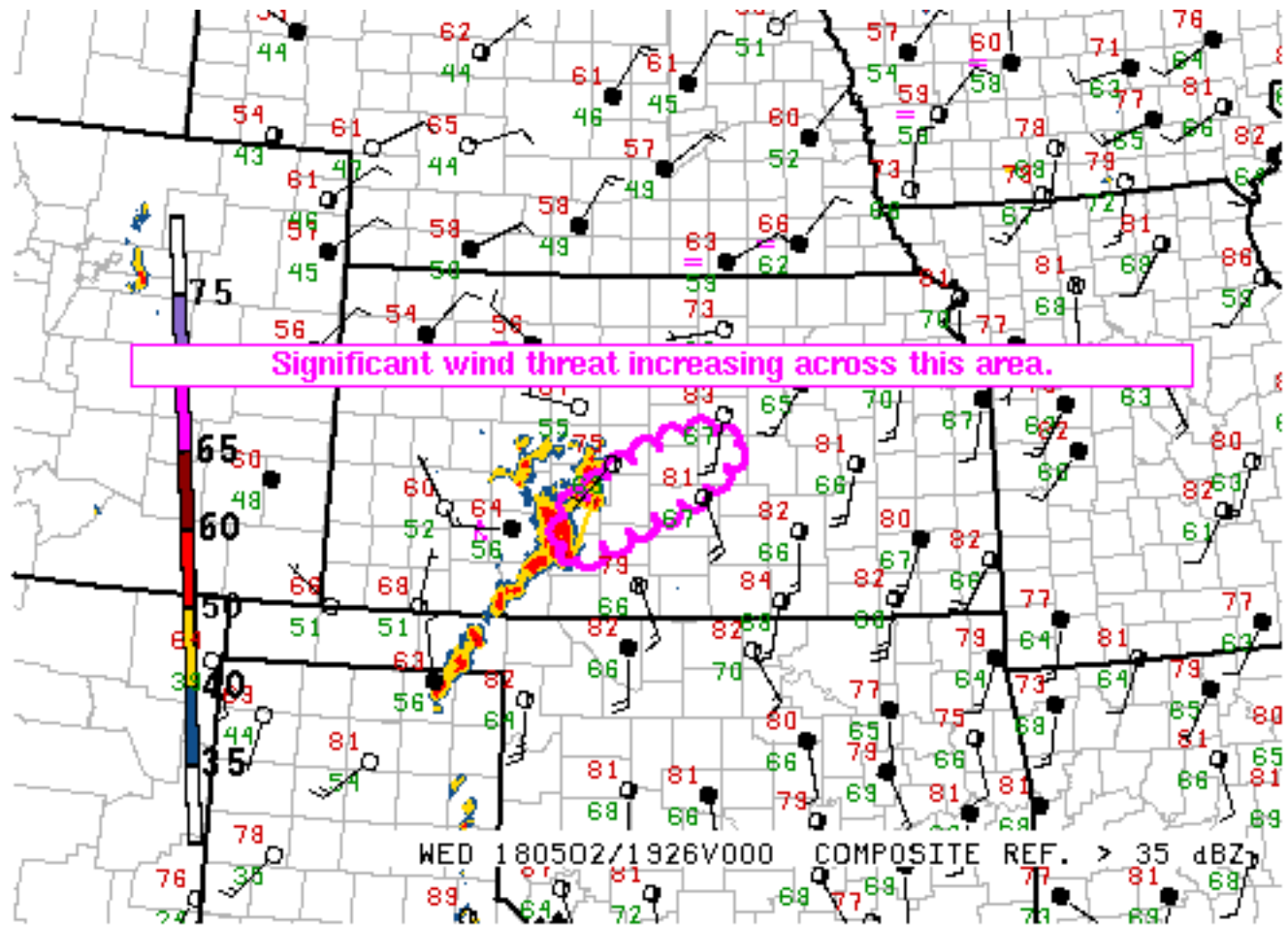
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Mesoscale Discussion 315

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SPC MCD #0315

Mesoscale Discussion 0315

NWS Storm Prediction Center Norman OK

0247 PM CDT Wed May 02 2018

Areas affected...Northeast Kansas and northwest Missouri

Concerning...Tornado Watch 61...

Valid 021947Z - 022145Z

The severe weather threat for Tornado Watch 61 continues.

SUMMARY...Latest guidance shows increasing concern for severe, damaging wind this afternoon and evening across portions of central Kansas ahead of an intensifying cluster of thunderstorms across southwest Kansas. These thunderstorms will move quickly to the northeast.

DISCUSSION...Latest observations suggest mesoscale organization of the thunderstorm activity, with attendant rear-inflow jet development, across southwest Kansas. This larger-scale organization



will support thunderstorm longevity as they move into an environment characterized by 2500-3000 J/kg of mixed-layer CAPE and low-level lapse rates around 8 C/km. This environment and the approaching convective complex will support downward momentum transfer of strong lower-tropospheric flow resulting in an heightened potential for significant severe thunderstorm wind swaths at the surface, potentially in excess of 70-80 mph. As such, an increase in significant wind potential is expected over the next few hours.

..Marsh.. 05/02/2018

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

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Page last modified: May 02, 2018

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