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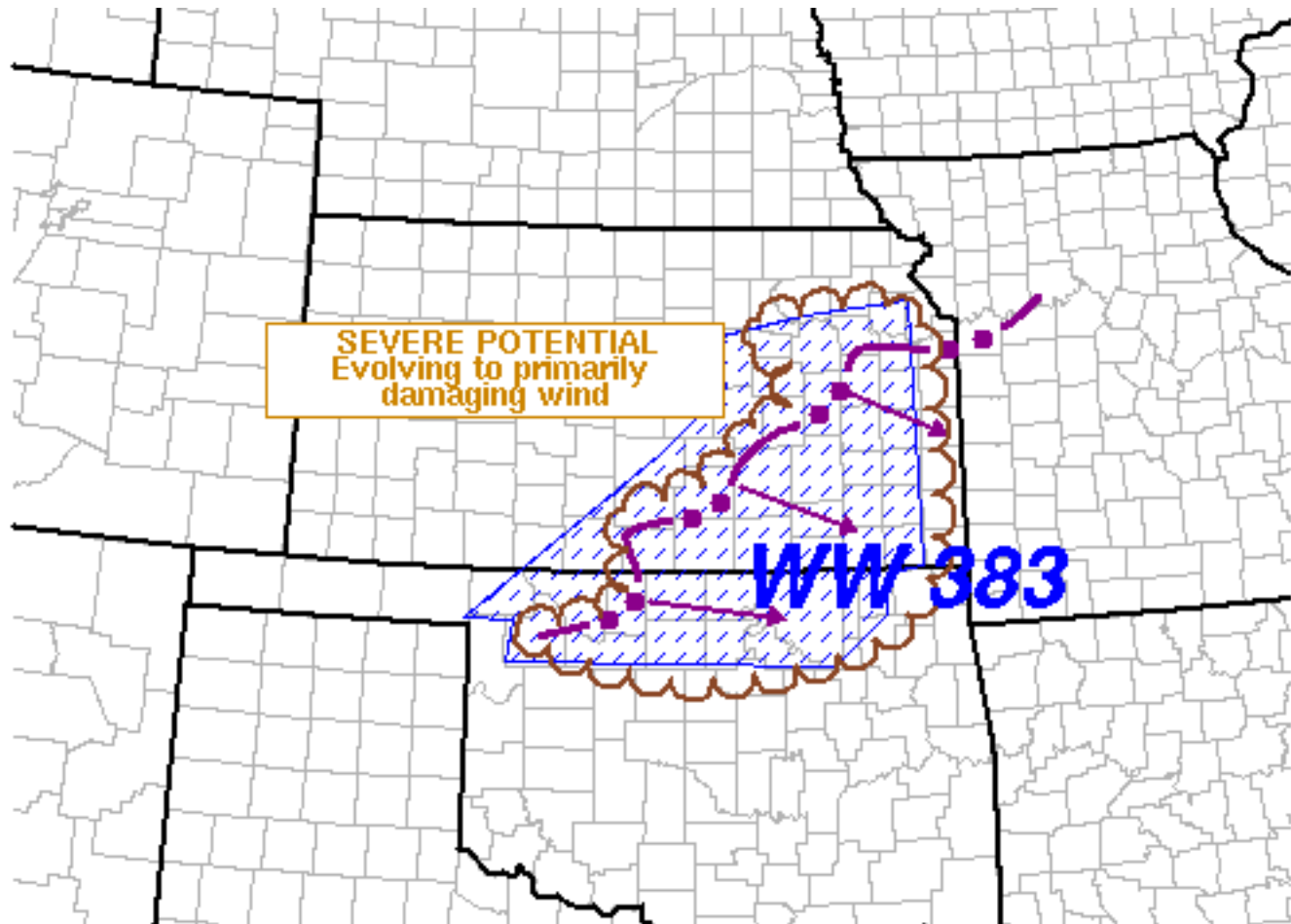
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SPC MCD #1192

Mesoscale Discussion 1192

NWS Storm Prediction Center Norman OK

0132 AM CDT Fri Jun 30 2017

Areas affected...Portions of southern/eastern KS and northern OK.

Concerning...Severe Thunderstorm Watch 383...

Valid 300632Z - 300830Z

The severe weather threat for Severe Thunderstorm Watch 383 continues.

SUMMARY...The severe threat with a band of thunderstorms will continue to spread eastward/southeastward across the watch area and is becoming mostly wind-driven. An additional watch may be needed in the next few hours farther southeast across parts of northeastern OK, southeastern KS, southwestern MO and/or northwestern AR as convective trends in watch 383 warrant.

DISCUSSION...Convection has organized into a wavy/quasi-linear MCS

with embedded bows and outflow surges, located at 06Z roughly along a TOP-AVK line. Severe gusts have been clocked at several observing sites over the past couple hours, including HUT, SLN and AVK. At 525Z, a significant-severe (67-kt) gust struck the May Ranch mesonet in northern Woods County OK, from a tail-end bow echo located astride the KS/OK border. That activity has exhibited a pronounced rear-inflow jet.

Activity will continue to be supported by steep midlevel lapse rates and low-level moisture transport above the surface, with relatively high theta-e in an elevated inflow layer. Preconvective VWP over the area and planar LLJ forecasts indicate favorable inflow will continue for at least a few more hours, despite the diabatically driven strengthening of SBCINH. Modified soundings and model soundings yield MUCAPE 3000-4000 J/kg and still have MLCAPE exceeding 2000 J/kg near the KS/OK border, despite the SBCINH, with values gradually decreasing northeastward. Northwesterly 40-50-kt effective-shear vectors and mean-wind vectors aligned nearly perpendicular to the convective orientation will support damaging-wind potential. Forced ascent along the leading edge of cold pools -- both smaller-scale and in aggregate across the complex -- will continue to help to overcome CINH, maintaining portions of the MCS at or near severe levels into north-central/northeastern OK and east-central/southeastern KS. The potential remains for localized surges of significant-severe wind as well within the broader complex.

..Edwards.. 06/30/2017

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