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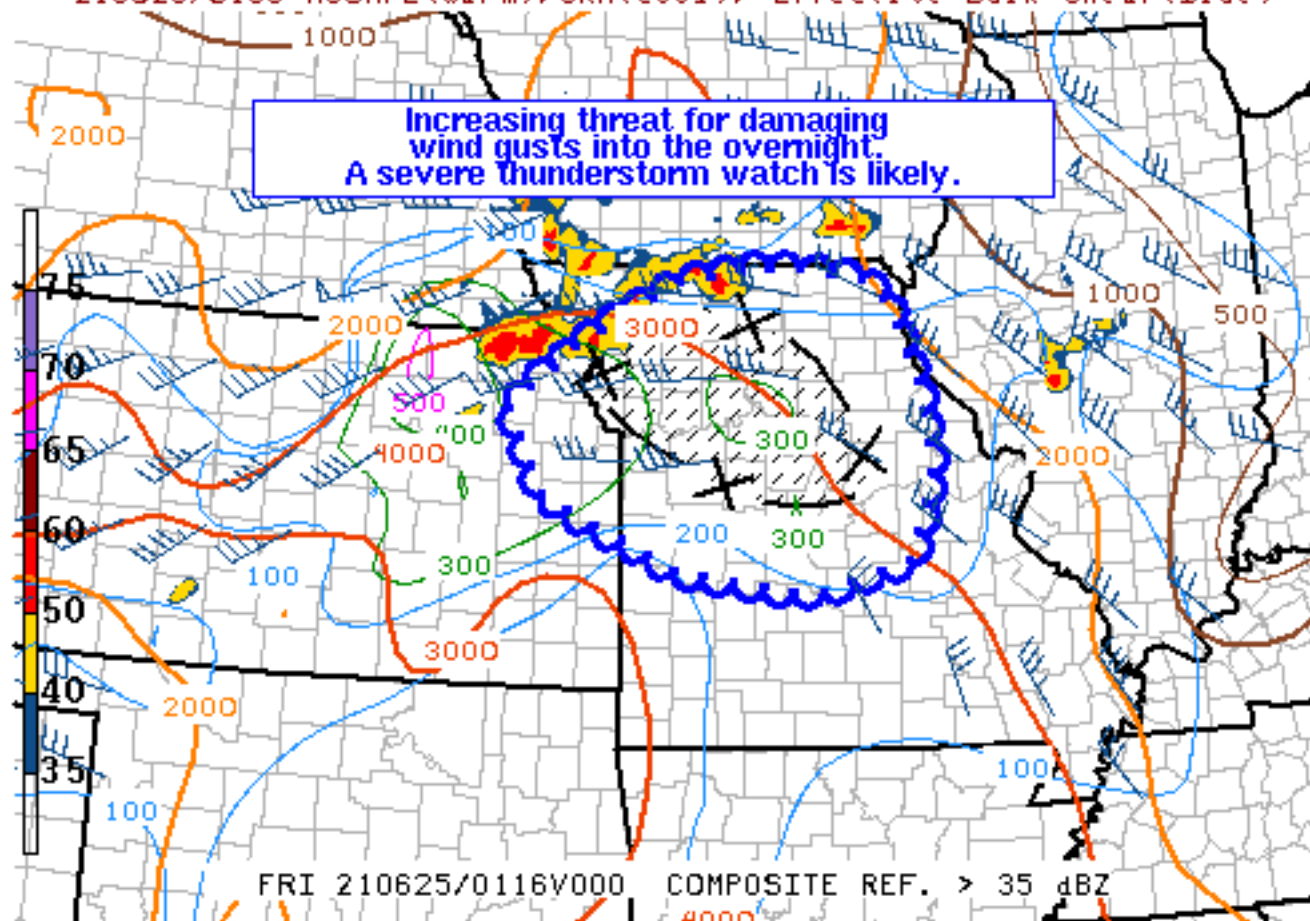
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## Mesoscale Discussion 1086

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210625/0100\_MUCAPE (warm), SRH (cool), Effective Bulk Shear (blue)



SPC MCD #1086

Mesoscale Discussion 1086

NWS Storm Prediction Center Norman OK

0833 PM CDT Thu Jun 24 2021

Areas affected...central Missouri and eastern Kansas

Concerning...Tornado Watch 309...311...

Valid 250133Z - 250300Z

The severe weather threat for Tornado Watch 309, 311 continues.

SUMMARY...The cluster of severe storms over northern Missouri and eastern Kansas will move southeastward this evening with a threat for damaging winds and perhaps a tornado or two. A replacement severe thunderstorm watch for WW309 and ww311 will be coordinated shortly.

DISCUSSION...0115z radar observation showed a compact MCS across portion of eastern Kansas and northern Missouri. Latest echo top estimations from GOES 16 and MRMS show several towers in the core of the MCS with tops exceeding 60k feet. Regional soundings and SPC mesoanalysis indicate a deep reservoir of buoyancy (3000-4000 J/kg of MLCAPE) exists ahead of the ongoing storms. As the cluster moves southeastward into undisturbed air over the next couple of hours, additional development/strengthening is expected. Deep-layer shear of 30-40 kts will support an organized linear storm mode with short bowing segments likely. Early indications of a rear inflow jet developing across far northwestern Missouri suggest damaging wind gusts (some in excess of 70 mph) are likely. Regional WVPs also suggest some QLCS tornado threat may evolve given large SRH 0-1 km of 200-300 m<sup>2</sup>/s<sup>2</sup> and 25-35 kts of 0-3 km line normal shear. Given current convective trends, a Severe Thunderstorm Watch will be coordinated to replace parts of WW309 and WW311. An additional watch may be needed downstream as storms progress southeastward later this evening.

..Lyons/Grams.. 06/25/2021

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

ATTN...WFO...LSX...DVN...SGF...DMX...EAX...TOP...

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39439134 38819122 38059151 37789260 37999400 38589546  
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