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Mesoscale Discussion 823

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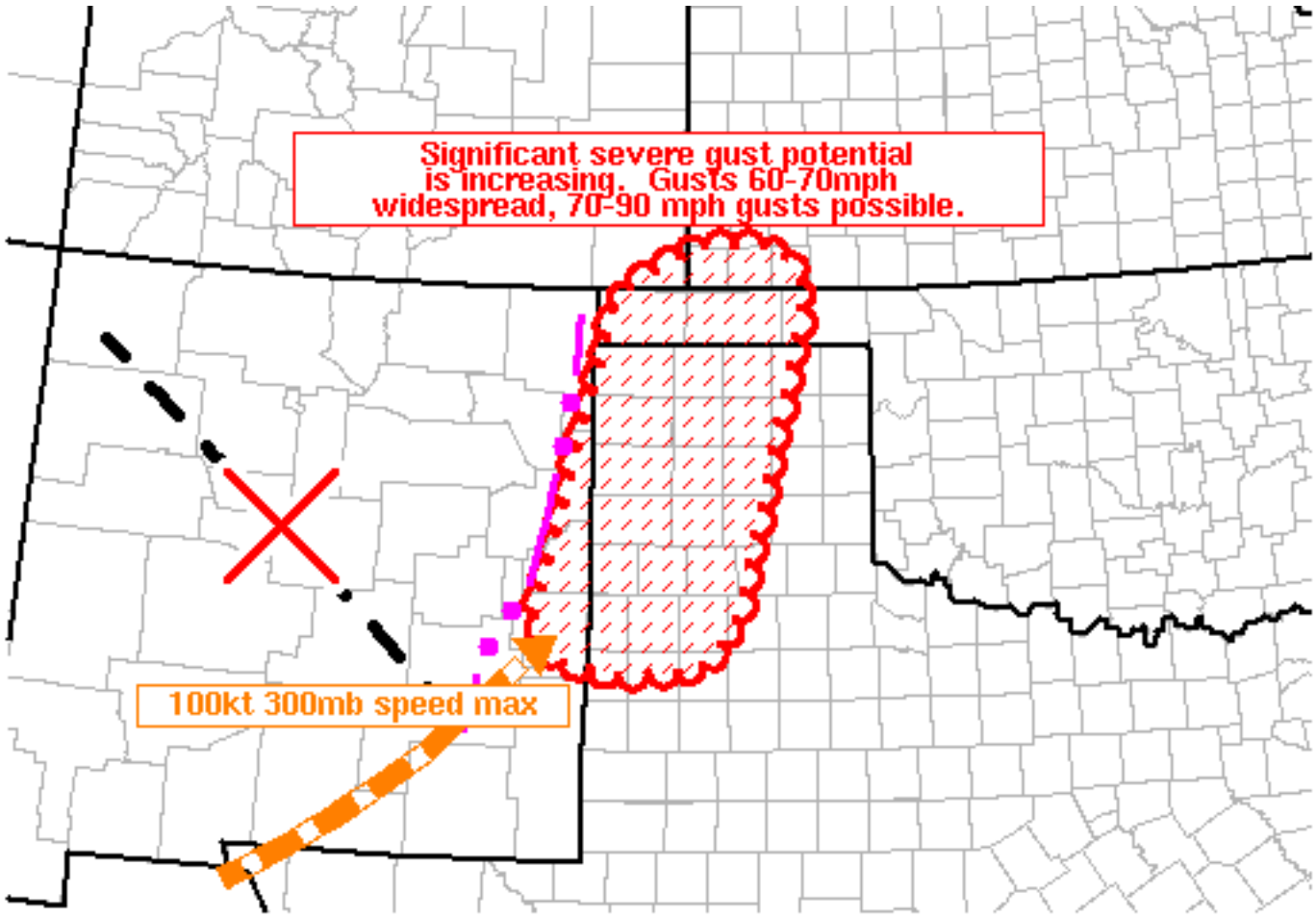

SPC MCD #0823

Mesoscale Discussion 0823
NWS Storm Prediction Center Norman OK
0656 PM CDT Sun May 26 2019

Areas affected...OK-TX Panhandles...TX South Plains...Eastern Plains of NM

Concerning...Tornado Watch 253...254...

Valid 262356Z - 270100Z

The severe weather threat for Tornado Watch 253, 254 continues.

SUMMARY...Significant severe gust potential is increasing over the southern High Plains. Widespread gusts of 60-70 mph are likely, and 70-90 mph gusts are possible in swaths where embedded supercells or bowing segments evolve within the squall line. A new severe thunderstorm watch will likely be issued this evening for central and eastern portions of the TX Panhandle and areas near and east of I-27. A watch extension in area could be utilized over parts of southwest KS south of severe thunderstorm watch 257.

DISCUSSION...Water vapor imagery shows an intense mid-level shortwave trough moving rapidly northeastward across central NM with a 100 kt 300mb jet streak analyzed over far southeast NM. Strong mid- to upper-level forcing for ascent is beginning to overspread the west edge of the moist sector. A concentrated area of severe gusts ranging from 50-70kt have been observed by ASOS over north-central NM and south-central CO (Clines Corners, NM to Alamosa, CO) with high-based convection. The flow fields associated with the gusts are overspreading the dryline this evening.

The 19z Amarillo, TX raob showed a 8.8 degrees C/km 700-500mb lapse rate atop a moist/unstable boundary layer approaching 2000 J/kg MLCAPE. Surface analysis during the past hour indicates relatively strong pressure falls (1-2mb/hour) from the Permian Basin northward into southeast CO. Coincident with the pressure falls, the KAMA VAD has strengthened markedly during the past hour. The expectation this evening is for a narrow window of opportunity for a supercell tornado risk ahead of the severe squall line. As the supercells become embedded within the line, those areas will likely evolve into bowing structures with deep updraft cores lingering for an hour or more thereafter. It is with these structures and other bowing structures where the potential for significant severe gusts is greatest.

..Smith.. 05/26/2019

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

ATTN...WFO...DDC...LUB...AMA...PUB...ABQ...

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