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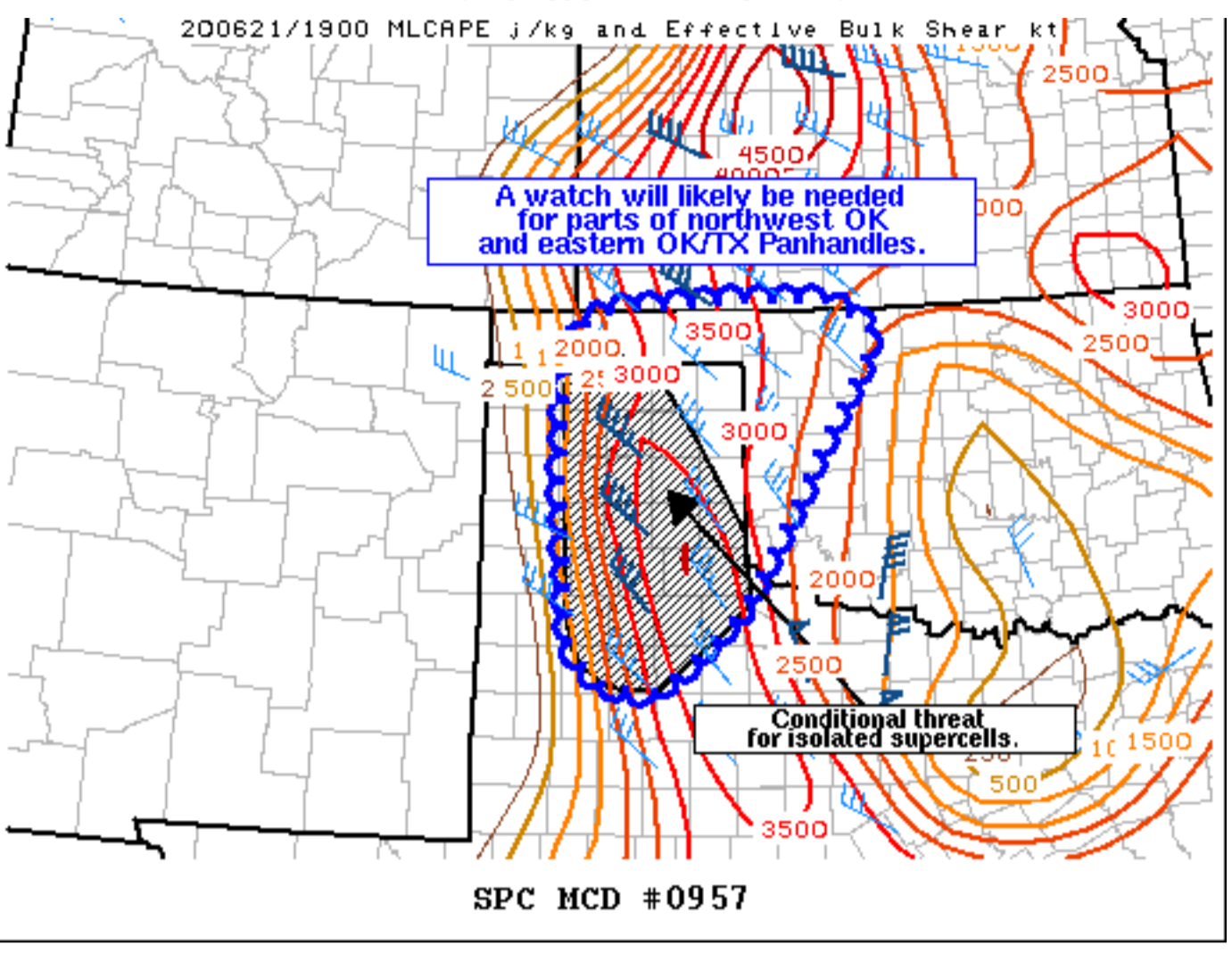
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Mesoscale Discussion 957

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SPC MCD #0957

Mesoscale Discussion 0957
 NWS Storm Prediction Center Norman OK
 0304 PM CDT Sun Jun 21 2020

Areas affected...portions of the OK/TX Panhandles into northwest/western OK

Concerning...Severe potential...Watch likely

Valid 212004Z - 212200Z

Probability of Watch Issuance...80 percent

SUMMARY...Severe storms will track southeast from western KS into portions of the eastern OK Panhandle/northeastern TX Panhandle, and northwest OK later this afternoon. Widespread damaging winds, hail and potentially a tornado are expected with these storms into the evening hours.

DISCUSSION...Convective initiation appears likely with an area of TCU south of Garden City KS and west of Dodge City KS. These storms, along with additional convection further north across west-central KS will shift southeast toward the eastern OK/northeastern TX Panhandles and northwest OK over the next couple of hours. A very unstable airmass resides downstream of this area of developing convection, with dewpoints generally in the mid-to-upper 60s F beneath midlevel lapse rates greater than 8 C/km (per 18z RAOB from AMA). This is resulting in MLCAPE values great than 2500 J/kg east of the north-south oriented dryline. The 18z AMA RAOB indicated a strong cap was still in place across the TX Panhandle vicinity, but less inhibition should reside further north and east where deeper moisture is present. Additionally, effective shear greater than 35 kt will further aid in maintenance of organized, intense convection as storms develop southeastward from western KS. Widespread intense, damaging winds will be possible with these storms into the evening hours as a bowing line of storms moves into the area. Large to very large hail is also possible with any stronger embedded cells. A watch will likely be needed across this area in the next couple of hours.

Further south across the TX Panhandle into the TX South Plains vicinity, a more conditional severe threat will exist. Strong capping may ultimately preclude isolate, discrete supercell development east of the dryline. However, some guidance suggests one or two cells are possible. Visible satellite imagery shows a CU field extending southward across the OK/TX Panhandle toward CDS. If a cell can develop, very large hail (greater than 2 inches diameter) and intense downburst winds will be possible. Given the conditional nature of the threat, it is unclear if a watch as far south as the South Plains will be necessary.

..Leitman/Guyer.. 06/21/2020

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

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