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Mesoscale Discussion 654

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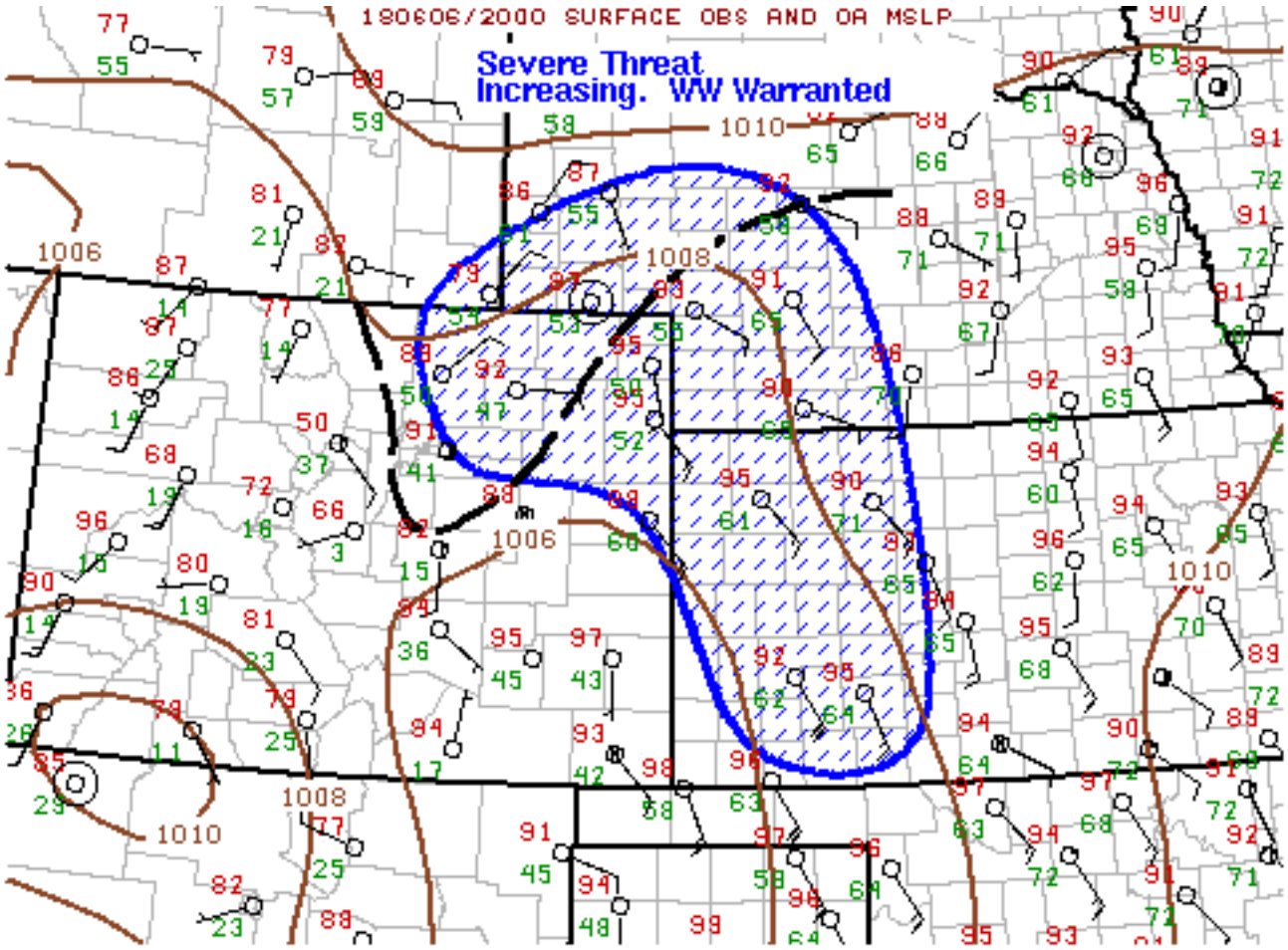

SPC MCD #0654

Mesoscale Discussion 0654
NWS Storm Prediction Center Norman OK
0349 PM CDT Wed Jun 06 2018

Areas affected...Central High Plains

Concerning...Severe potential...Watch likely

Valid 062049Z - 062215Z

Probability of Watch Issuance...80 percent

SUMMARY...Severe threat is increasing across the central High Plains. Hail/wind should accompany storms as they mature and spread east this evening. WW is warranted across this region.

DISCUSSION...Strong boundary-layer heating has contributed to significant destabilization across the central High Plains this afternoon. Surface observations are nearing convective temperatures with readings climbing into the lower 90s. Convection is gradually deepening along the Front Range of CO and thermals are strengthening

north of the Palmer Divide. These storms will gradually intensify over the next few hours as updrafts encounter increasingly moist/upslope flow over northeast CO. While initial activity may exhibit supercell characteristics, latest thinking is clustering will occur over the plains this evening and an MCS may ultimately evolve into southwest NE as LLJ strengthens after sunset.

Farther south, boundary-layer Cu field is deepening over western KS. This activity is evolving within a fairly unstable air mass with MLCAPE values on the order 4000 J/kg. Latest CAM guidance suggests thunderstorms will develop over the next few hours across western KS. Slow-moving supercells will be the initial storm mode, but clusters will likely occur and a possible MCS may develop by late evening. Large hail and wind can be expected across the High Plains, although a tornado can not be ruled out with early-evening supercells.

..Darrow/Nauslar/Weiss.. 06/06/2018

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

ATTN...WFO...GID...LBF...DDC...GLD...BOU...CYS...

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