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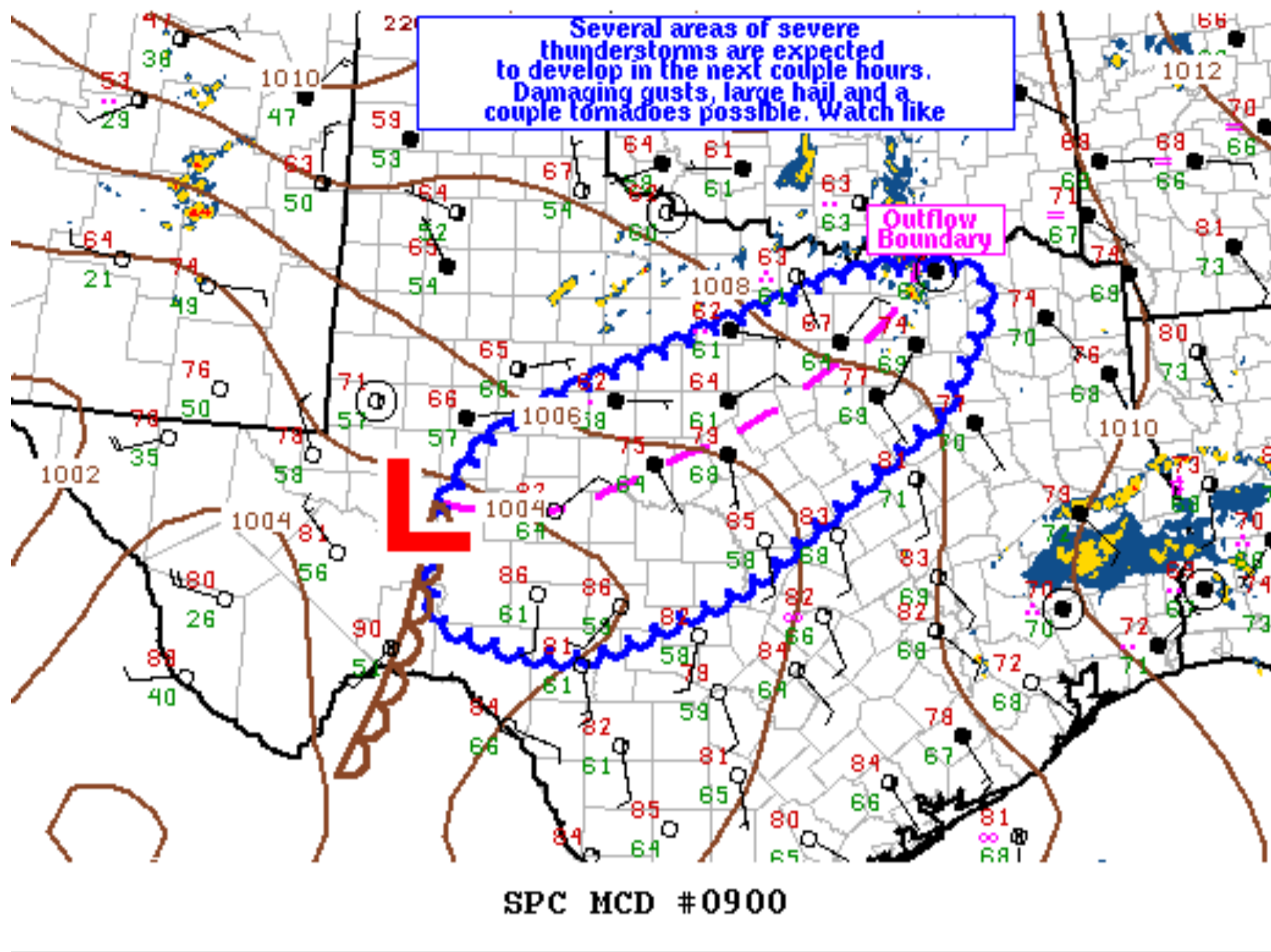
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Mesoscale Discussion 900

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SPC MCD #0900

Mesoscale Discussion 0900
NWS Storm Prediction Center Norman OK
0142 PM CDT Tue May 24 2022

Areas affected...portions of west-central into northern Texas

Concerning...Severe potential...Watch likely

Valid 241842Z - 242015Z

Probability of Watch Issuance...95 percent

SUMMARY...Convection is expected to develop and rapidly increase in coverage and intensity across parts of west-central Texas into northern Texas this afternoon. Large hail and damaging gusts will be the main hazards with this activity.

DISCUSSION...A somewhat messy convective scenario is expected to unfold over the next couple of hours across portions of west-central Texas near the surface triple point into north Texas along the surface outflow boundary. Initial convective development is expected soon east of Midland to near San Angelo ahead of the surface dryline and near the roughly west to east oriented surface boundary. Visible satellite imagery shows deepening cumulus across this area where strong heating has allowed temperatures to climb as high as the low 80s F. Surface dewpoints in the upper 50s to low 60s F beneath steep midlevel lapse rates are contributing to MLCAPE around 1500 J/kg. Effective shear magnitudes greater than 40 kt and vertically veering wind profiles will favor initial semi-discrete supercells capable of very large hail (some greater than 2 inches in diameter). This activity will be high-based, with weak 0-3 km flow evident in forecast soundings and SPC Mesoanalysis. Coupled with steep low-level lapse rates and DCAPE increasing to greater than 1000 J/kg, damaging outflow winds also will be possible. Weak low-level shear and higher-based convection will likely limit the overall tornado threat. However, low-level instability and vorticity will be maximized near the triple point/surface boundary. This will conditionally support a limited tornado threat with cells interacting with the surface boundary or via storm mergers/outflow interactions across portions of central TX.

Additional thunderstorms are expected to develop/increase to the northeast along the surface boundary into parts of north Texas. This activity is expected to develop into clusters/line segments more quickly compared to storms closer to the triple point. Hail and damaging gusts will be the main concern with this activity.

..Leitman/Hart.. 05/24/2022

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

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