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Mesoscale Discussion 753

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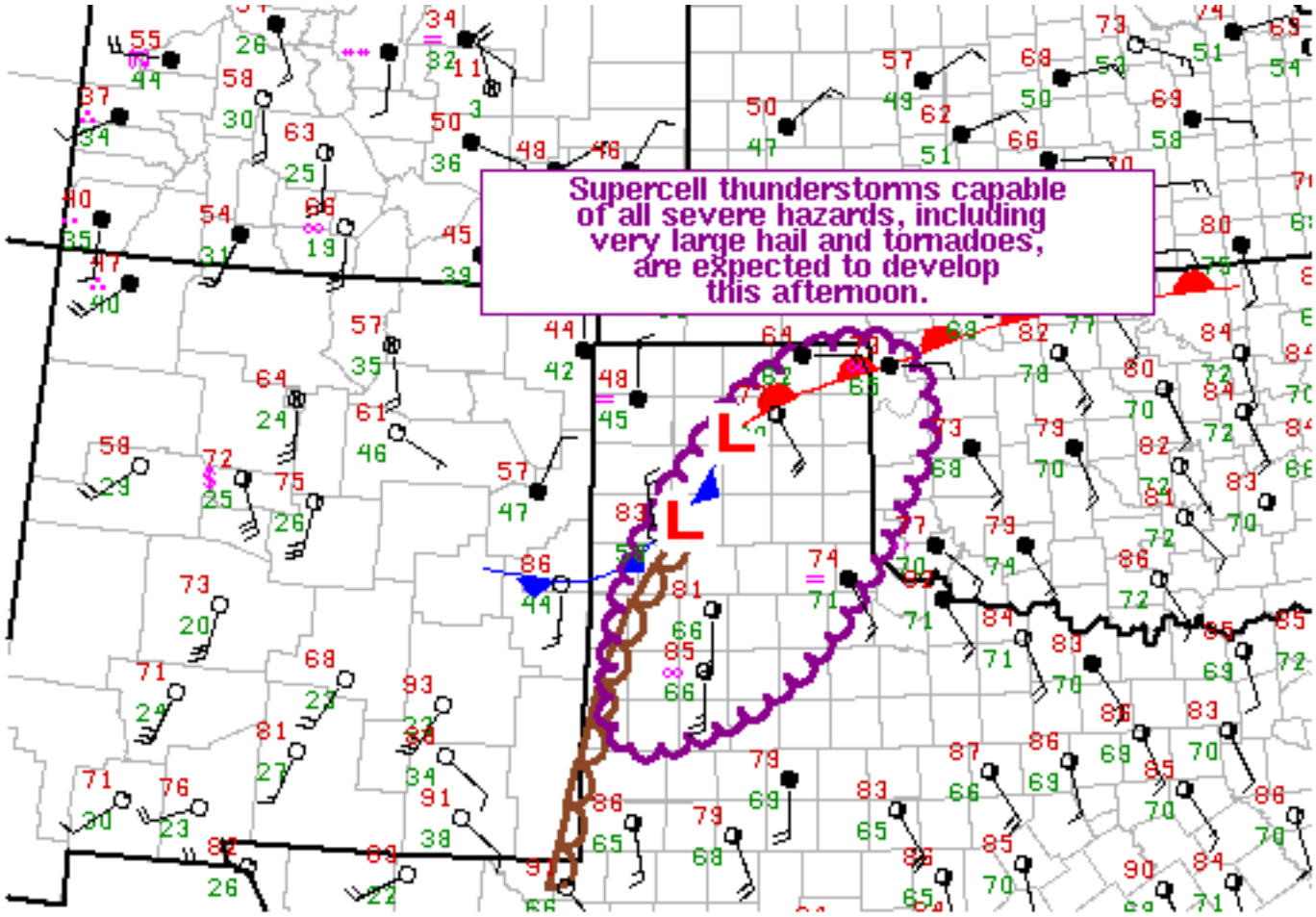

SPC MCD #0753

Mesoscale Discussion 0753
NWS Storm Prediction Center Norman OK
0147 PM CDT Thu May 23 2019

Areas affected...TX Panhandle...Far Western OK

Concerning...Severe potential...Watch likely

Valid 231847Z - 232045Z

Probability of Watch Issuance...95 percent

SUMMARY...Supercell thunderstorms capable of all severe hazards, including very large hail and tornadoes, are expected to develop across the TX Panhandle this afternoon.

DISCUSSION...Based on the wind fields in the 18Z observations a triple point/surface low exists just west of AMA with the thermal fields indicating a dryline extends southwestward to HOB. Another low appears to exist northeast of AMA (near BGD), with a warm front extending northeastward to the central KS/OK border. Strong moisture

convergence continues in the vicinity of AMA as the composite outflow/cold front continues to sag slowly southeastward while strong southeasterly surface winds and moisture advection continues south of it.

The air mass along and south/east of these boundaries continues to destabilize. Cumulus field across east-central NM/western TX Panhandle continues to deepen and the 18Z AMA sounding shows very little convective inhibition remaining. Overall expectation is for convective initiation to occur around 20Z. An initially discrete mode is anticipated, with supercells capable of all severe hazards likely. Tornadoes and very large hail (i.e. greater than 2" in diameter) may occur, particularly as storms move east/northeastward into the central and eastern TX Panhandle where surface winds are more southeasterly. Given the strength of the low-level shear, a strong, long-track tornado may occur if storms are able to remain discrete enough and do not grow upscale.

..Mosier/Hart.. 05/23/2019

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

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