

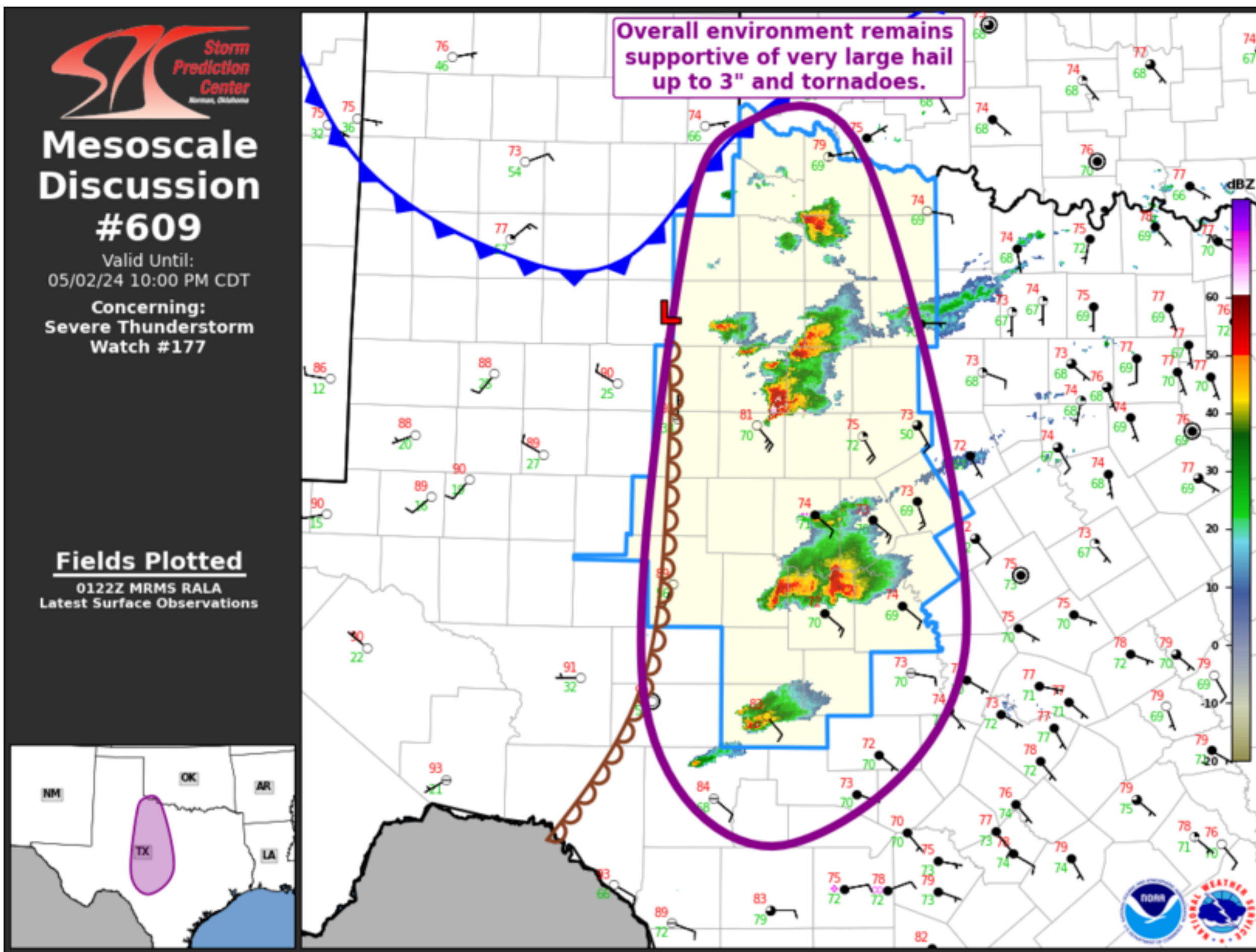
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### Mesoscale Discussion 609

< Previous MD Next MD >



Mesoscale Discussion 0609  
 NWS Storm Prediction Center Norman OK  
 0824 PM CDT Thu May 02 2024

Areas affected...Northwest TX into Southwest TX into the TX Hill Country

Concerning...Severe Thunderstorm Watch 177...

Valid 030124Z - 030300Z

The severe weather threat for Severe Thunderstorm Watch 177 continues.

**SUMMARY...**The environment from northwest Texas into southwest Texas and the Texas Hill Country remains supportive of supercells capable of all severe hazards, including very large hail up to 3" and tornadoes.

**DISCUSSION...**Numerous supercells continue within Severe Thunderstorm Watch 177 from northwest TX into southwest TX and the TX Hill Country. Recent KDYX VAD sampled relatively modest low-level storm-relative helicity (i.e. 0-1 km SRH of 60 to 75 m2/s2) and weak low-level shear (i.e. 0-1 km bulk shear less than 15 kt). Even so, the combination of strongly deviant motion (i.e. southeastward at around 10 kt), ample low-level vorticity in the vicinity of the dryline and more localized differential heating boundaries, and strong low-level buoyancy (i.e. 0-3 km MLCAPE over 75 J/kg) has supported several different instances of tornadogenesis, both with the northern pair of supercells near ABI and farther south in Runnels and Coleman Counties.

Overall environment remains supportive of supercells capable of all severe hazards, including very large hail up to 3" and tornadoes. New development is possible along the outflow of ongoing storms as well as just a bit south of the watch in the TX Hill Country. The onset of nocturnal stabilization will likely lead to a gradually diminishing tornado threat over the next two hours, but the hail threat will persist through the evening. A watch may be needed farther south if convective trends merit.

..Mosier.. 05/03/2024

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