

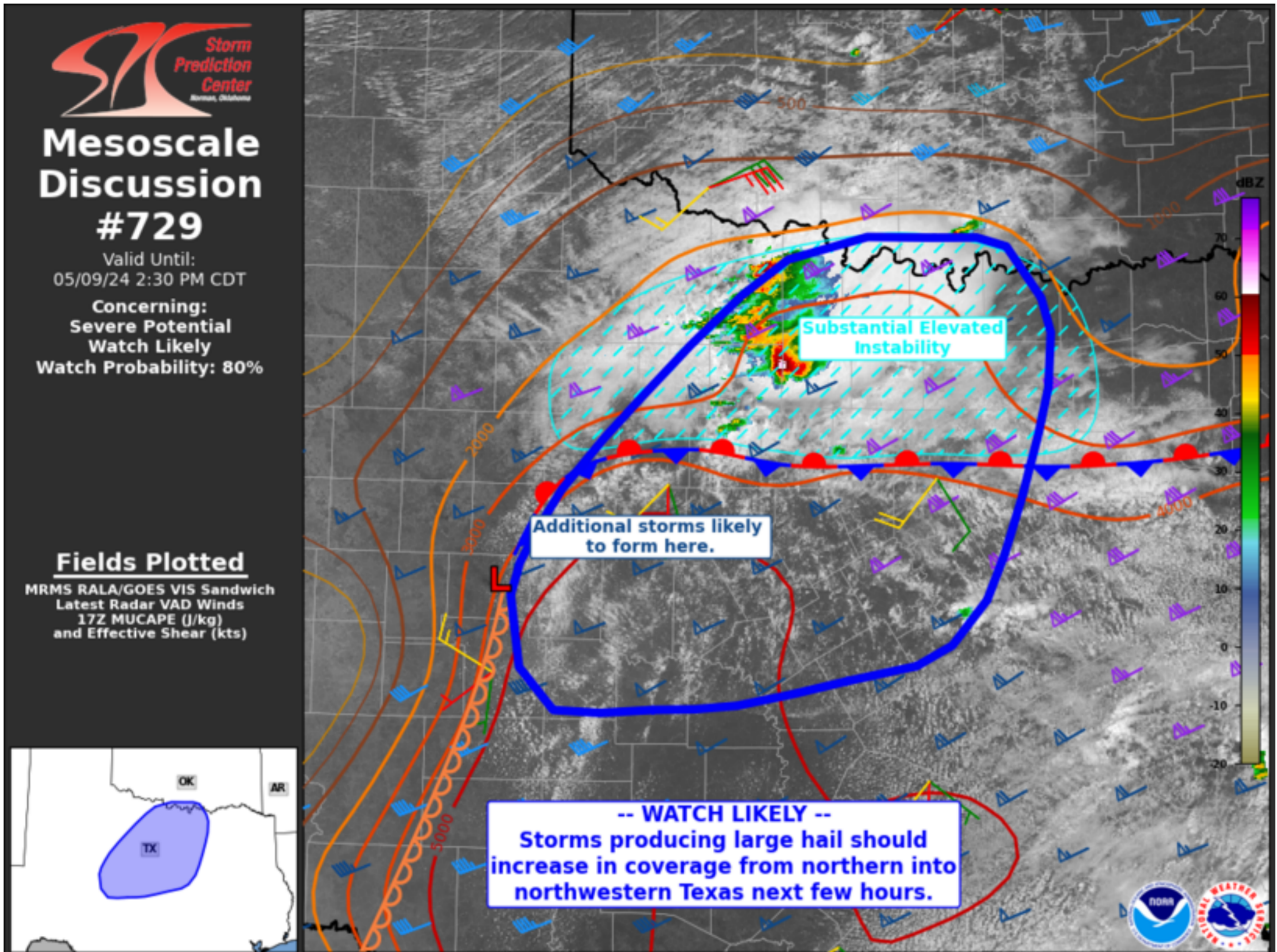
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Mesoscale Discussion 729
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Mesoscale Discussion #729
 Valid Until: 05/09/24 2:30 PM CDT
 Concerning: Severe Potential
 Watch Likely
 Watch Probability: 80%

Fields Plotted
 MRMS RALA/GOES VIS Sandwiche
 Latest Radar VAD Winds
 17Z MUCAPE (J/kg)
 and Effective Shear (kts)

Mesoscale Discussion 0729
 NWS Storm Prediction Center Norman OK
 1210 PM CDT Thu May 09 2024

Areas affected...much of northwest into northern Texas and toward the Red River

Concerning...Severe potential...Watch likely

Valid 091710Z - 091930Z

CORRECTED FOR WORDING

Probability of Watch Issuance...80 percent

SUMMARY...Storms are expected to increase in coverage through the afternoon, with very large hail possible from northwest into northern Texas. Damaging winds will also be possible.

DISCUSSION...Surface analysis shows a stationary front extending from near Shreveport LA westward across the Metroplex and toward a weak surface low near San Angelo, TX. The air mass is very moist and unstable across the entire region, as can be seen from the 12Z FWD sounding where elevated MUCAPE north of the boundary is around 4000 J/kg with steep midlevel lapse rates.

Further indicative of the quality of the elevated instability north of the front are robust cells already forming over Young and Archer Counties, which are situated atop relatively cool/dry surface northeasterlies. Deep-layer shear may be effectively augmented for cells moving eastward along the boundary later today as the air mass along it heats, with around 60 kt shear. Severe cells are also expected to form near the weak surface low or close to the dryline/stationary front intersection, with both very large hail and damaging winds as storms increase in coverage.

..Jewell/Smith.. 05/09/2024

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

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