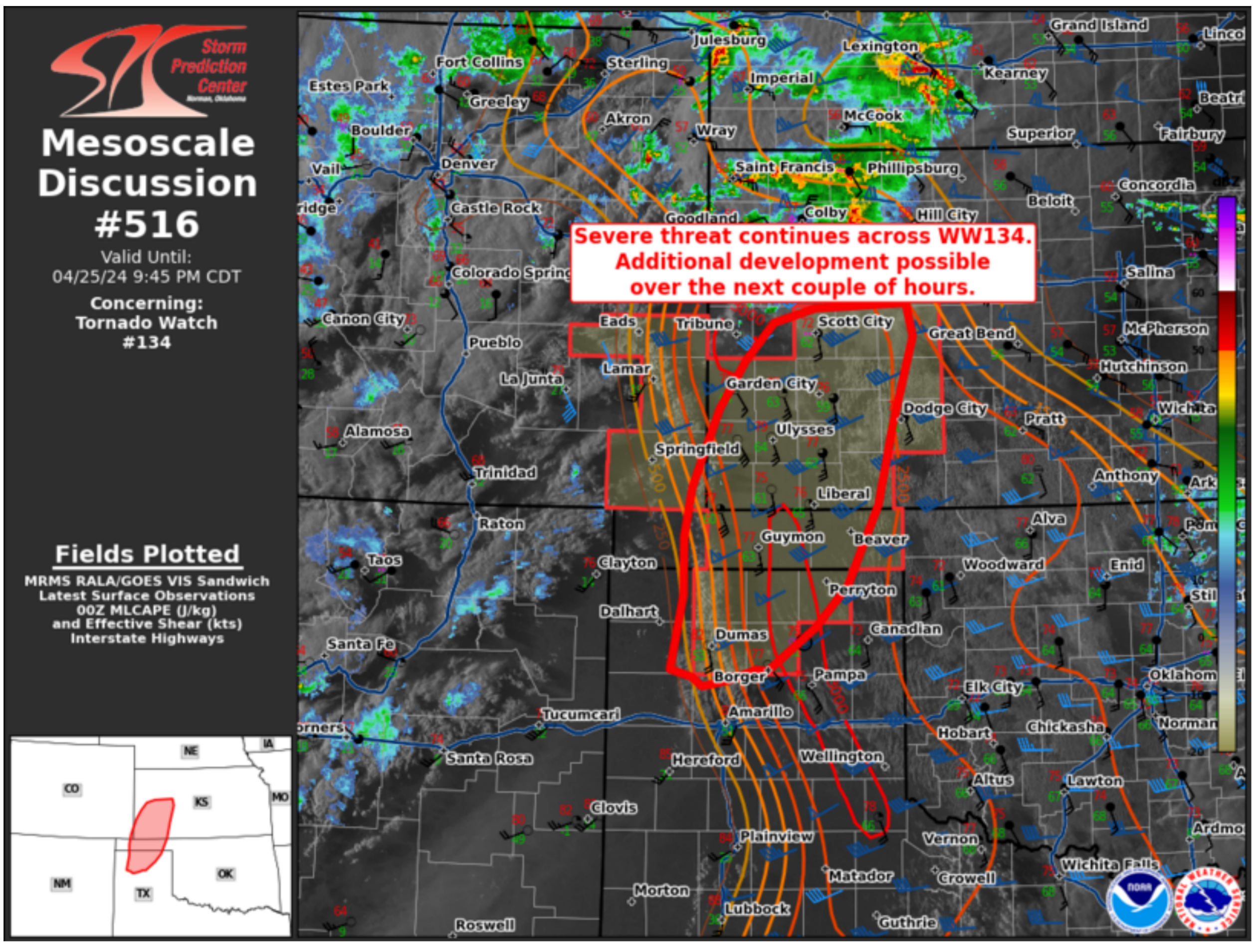


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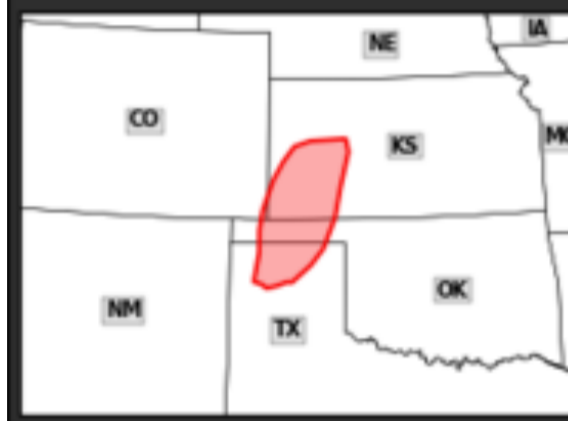
## Mesoscale Discussion 516

< Previous MD Next MD >



**Mesoscale Discussion #516**  
 Valid Until: 04/25/24 9:45 PM CDT  
 Concerning: Tornado Watch #134

**Fields Plotted**  
 MRMS RALA/GOES VIS Sandwich  
 Latest Surface Observations  
 00Z MLCAPE (J/kg)  
 and Effective Shear (kts)  
 Interstate Highways



Mesoscale Discussion 0516  
 NWS Storm Prediction Center Norman OK  
 0742 PM CDT Thu Apr 25 2024

Areas affected...northern Texas Panhandle...central Oklahoma  
 Panhandle...and southwestern Kansas

Concerning...Tornado Watch 134...

Valid 260042Z - 260245Z

The severe weather threat for Tornado Watch 134 continues.

**SUMMARY**...Severe threat continues across WW134. Additional thunderstorm development possible over the next couple of hours.

**DISCUSSION**...Visible satellite imagery across the Texas/Oklahoma Panhandles continues to show areas of towering cumulus clustered along the dryline. Thus far, attempts at initiation have been unsuccessful. The 00z RAOB from AMA indicates MLCIN has eroded amid steep lapse rates throughout the profile. Given the increase expected in the low-level jet through the next couple of hours and additional synoptic forcing for ascent, further scattered thunderstorm development will be possible. Recent CAM guidance supports this notion, though there are difference in timing/location of initiation within this region. Surface objective analysis indicates around 2500-3000 J/kg MLCAPE with deep layer shear at 50-55 kts. Given initially modest forcing and south-southwesterly deep layer flow, storms will initiate along the dryline before moving north eastward with the initial threat of large hail and damaging winds. Any cells that maintain strength through the evening will see an increasing threat for tornadoes as the low-level jet increases enlarging hodographs and increasing low-level shear.

..Thornton/Edwards.. 04/26/2024

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

ATTN...WFO...DDC...GLD...AMA...PUB...

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