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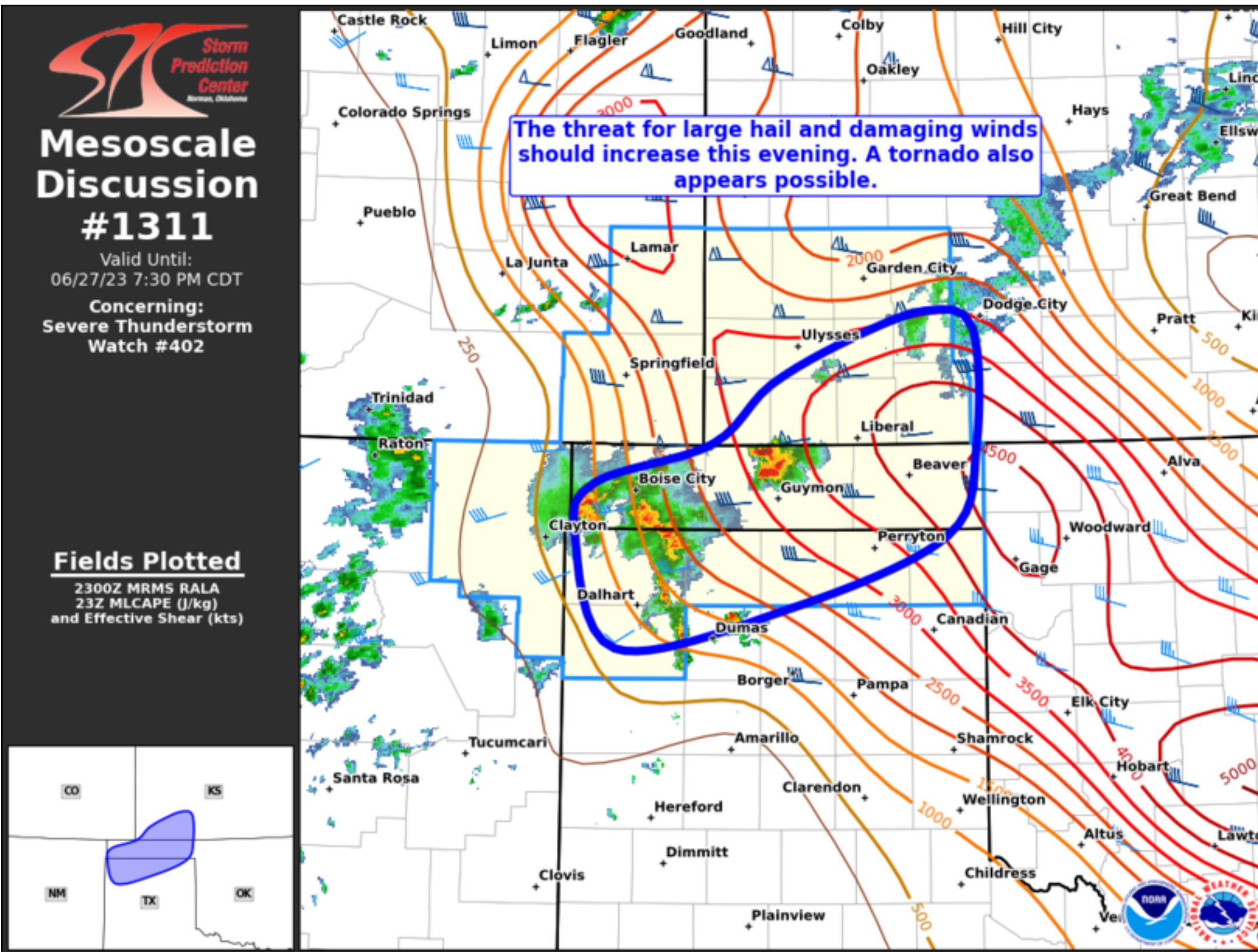
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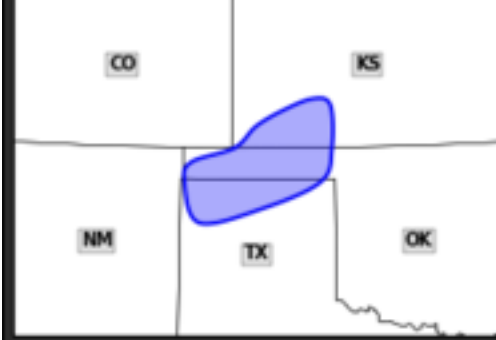
Mesoscale Discussion 1311

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Mesoscale Discussion #1311
Valid Until: 06/27/23 7:30 PM CDT
Concerning: Severe Thunderstorm Watch #402

Fields Plotted
2300Z MRMS RALA
23Z MLCAP (J/kg)
and Effective Shear (kts)



Mesoscale Discussion 1311
NWS Storm Prediction Center Norman OK
0602 PM CDT Tue Jun 27 2023

Areas affected...Portions of the OK/TX Panhandles and southwestern KS

Concerning...Severe Thunderstorm Watch 402...

Valid 272302Z - 280030Z

The severe weather threat for Severe Thunderstorm Watch 402 continues.

SUMMARY...The threat for large hail and damaging winds should increase this evening. A tornado also appears possible.

DISCUSSION...High-based convection that has spread from northeastern NM into the northern TX/OK Panhandles is beginning to intersect greater low-level moisture present to the east of a front. Current expectations are for this activity to strengthen over the next few hours as it encounters a moderately to strongly unstable airmass and 40-50 kt of deep-layer shear. Supercells posing a threat for very large hail appear possible in the short term (next couple of hours) given the presence of very steep mid-level lapse rates. Convection should grow upscale into an intense but small bowing complex this evening as a southerly low-level jet gradually strengthens, with a focused threat for significant severe/damaging winds, some of which could be 75+ mph.

A narrow window for a tornado may also exist this evening across the central/eastern OK Panhandle into southwest KS and vicinity, where LCLs are somewhat lower due to less daytime heating and boundary-layer mixing due to cloud cover. Low-level shear and hodograph curvature will increase through 01-02Z in tandem with the low-level jet, and any supercell that can remain discrete could produce a tornado across this area.

..Gleason.. 06/27/2023

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

ATTN...WFO...DDC...AMA...

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37770041 37670007 36990005 36450027 36040140 35800266

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