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Mesoscale Discussion 1307
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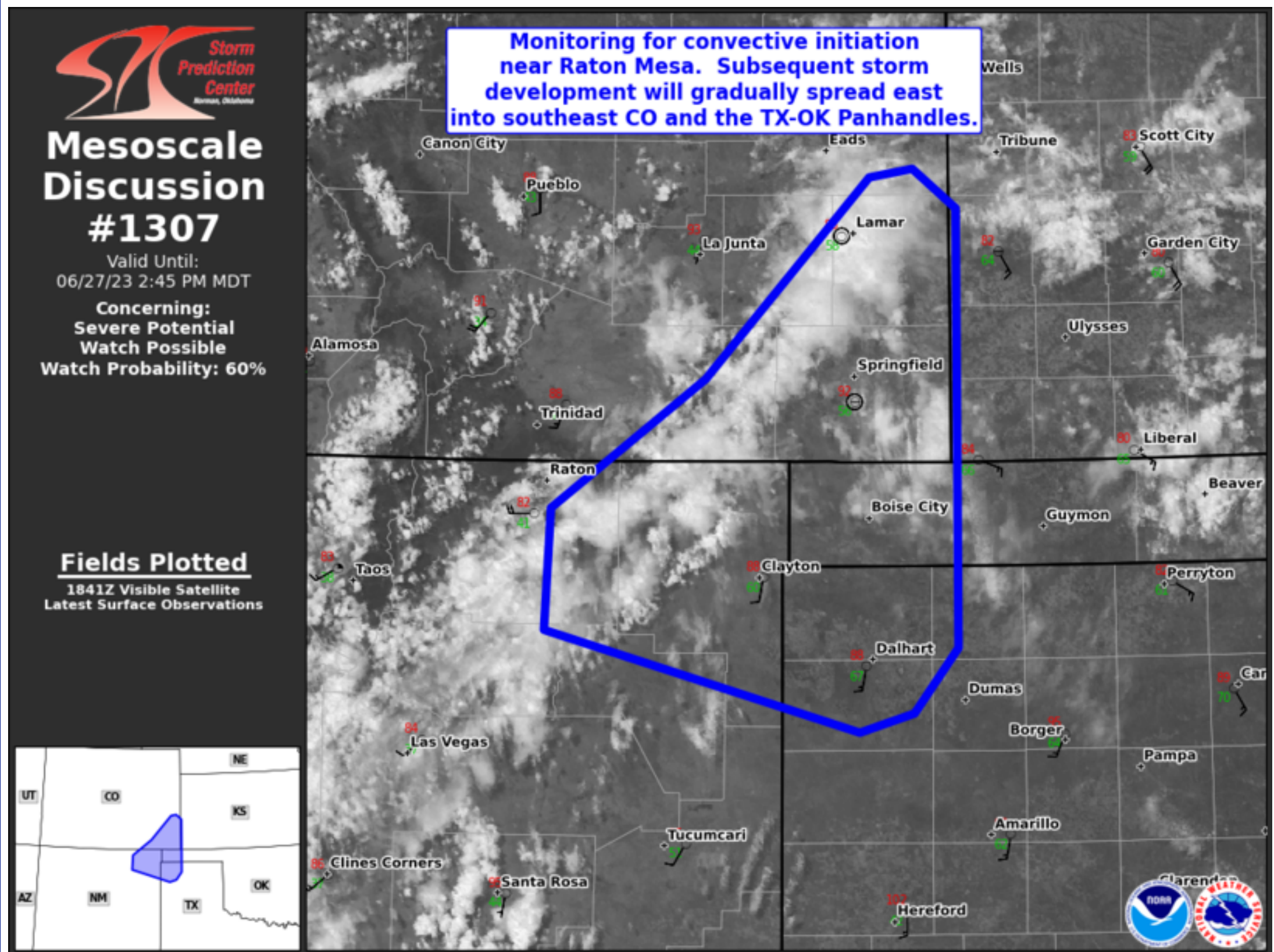
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Mesoscale Discussion #1307
 Valid Until: 06/27/23 2:45 PM MDT
 Concerning: Severe Potential Watch Possible
 Watch Probability: 60%

Fields Plotted
 1841Z Visible Satellite
 Latest Surface Observations



Mesoscale Discussion 1307
 NWS Storm Prediction Center Norman OK
 0148 PM CDT Tue Jun 27 2023

Areas affected...northeast NM...southeast CO...western OK Panhandle...northwest TX Panhandle

Concerning...Severe potential...Watch possible

Valid 271848Z - 272045Z

Probability of Watch Issuance...60 percent

SUMMARY...Monitoring for convective initiation near Raton Mesa. Subsequent storm development will gradually spread east into southeast CO and the TX-OK Panhandles. The stronger storms will be potentially capable of peak wind gusts 60-75 mph and large hail diameters 1-2 inches.

DISCUSSION...Visible satellite imagery shows a towering cumulus field over escarpment in northeast NM. Surface mesoanalysis shows the western extension of morning thunderstorm outflow extends into northwest OK and southwest KS where observation sites show easterly component to flow. This easterly upslope flow is resulting in upper 60s dewpoints in Texas County, OK (middle OK Panhandle county). Meanwhile, strengthening southwesterly flow is overspreading the Sangre de Cristos early this afternoon (40-55 kt at 500 mb) on the southern portion of a mid-level speed max over the central Rockies. Deeper mixing of the boundary layer is occurring across northeast NM with surface winds veering to the west-southwest and dewpoints fall into the 30s and lower 40s near I-25.

As the developing convection initially in a drier airmass encounters increasingly rich low-level moisture and a more buoyant airmass towards the OK/TX/CO border, expecting thunderstorms to rapidly intensify. Large hail and severe gusts will be possible with the stronger storms. The severe risk will increase as this activity approaches the longitude of the CO/KS border.

..Smith/Grams.. 06/27/2023
 ...Please see www.spc.noaa.gov for graphic product...
 ATTN...WFO...DDC...AMA...PUB...ABQ...

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