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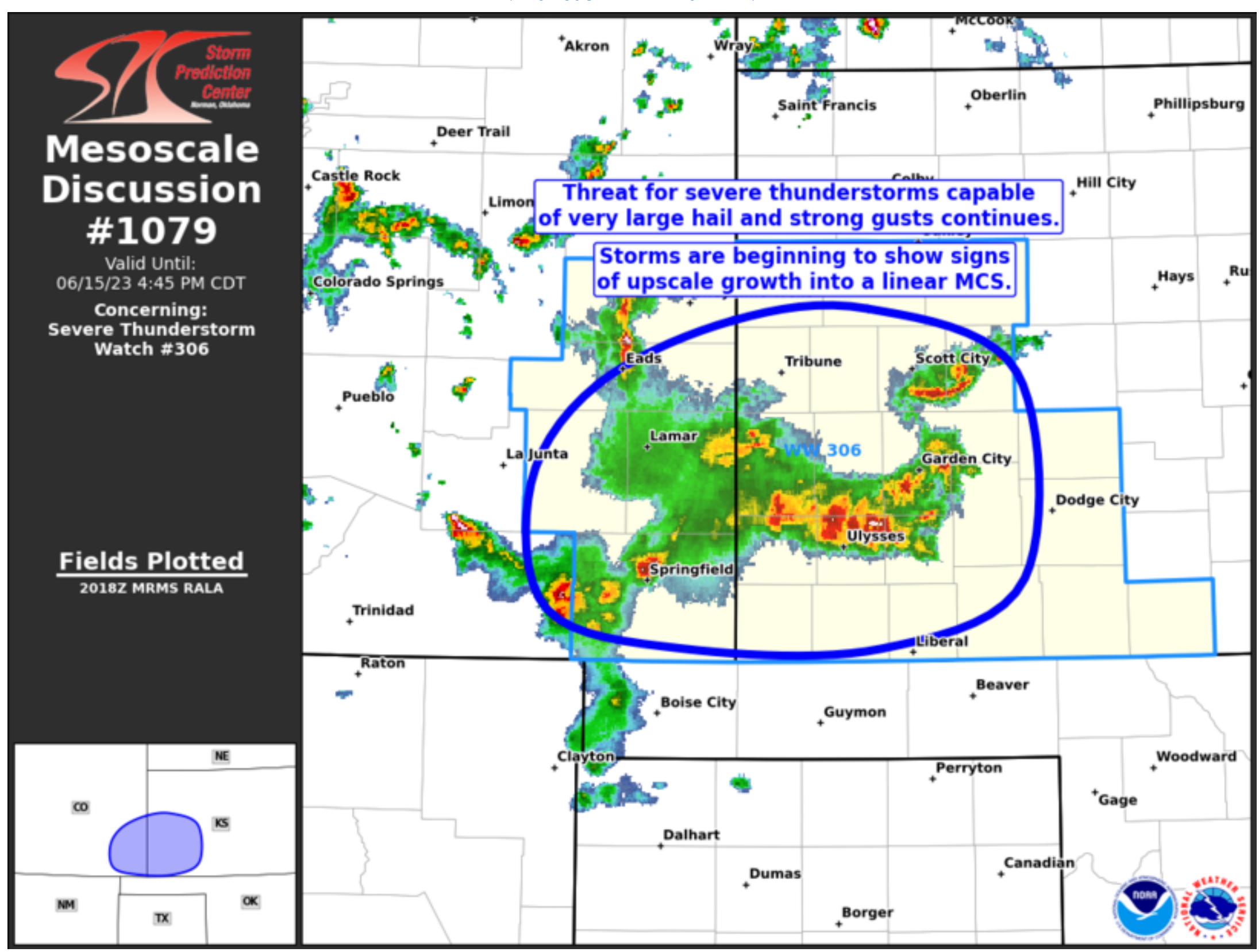
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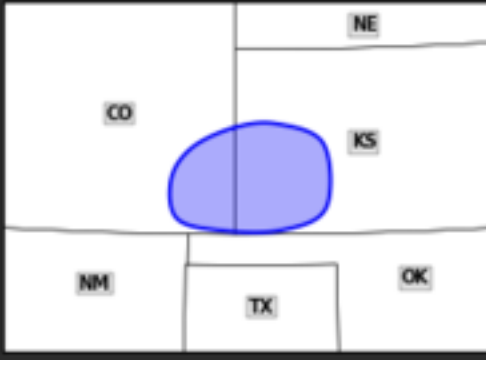
Mesoscale Discussion 1079

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Mesoscale Discussion #1079
 Valid Until: 06/15/23 4:45 PM CDT
 Concerning: Severe Thunderstorm Watch #306

Fields Plotted
 2018Z MRMS RALA



Mesoscale Discussion 1079
 NWS Storm Prediction Center Norman OK
 0320 PM CDT Thu Jun 15 2023

Areas affected...Far Southeast CO...Southwest KS

Concerning...Severe Thunderstorm Watch 306...

Valid 152020Z - 152145Z

The severe weather threat for Severe Thunderstorm Watch 306 continues.

SUMMARY...The threat for severe thunderstorms capable of very large hail and strong gusts will persist across southeast CO and southwest KS. Storms are beginning to show signs of upscale growth into a linear MCS.

DISCUSSION...Earlier storm over Bent County CO produced strong outflow, which was sampled at 46 kt from the southwest at LAA. This outflow likely interacted with the outflow from the storm over Prowers County CO, contributing to the forward surge recently noted on reflectivity imagery. Intense thunderstorms are ongoing directly downstream, suggesting further cold pool intensification may occur over the next hour or so. As such, this convective evolution may be the beginnings of upscale growth into an organized MCS that then progresses southeastward into the area of maximum buoyancy. That being said, given the complexity of these interactions, further observation are be needed to confirm the validity of this evolution.

Regardless of storm evolution, the ongoing storms across southwest KS are in an environment characterized by robust buoyancy (i.e. 2500 J/kg of MLCAPE) and strong shear (i.e. effective bulk shear 35-40 kt), and will continue to pose a threat for very large hail and strong gusts for the next few hours.

..Mosier.. 06/15/2023

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

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

LAT...LON 37880336 38400293 38720207 38790119 38450022 37410019
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