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 City, St Go

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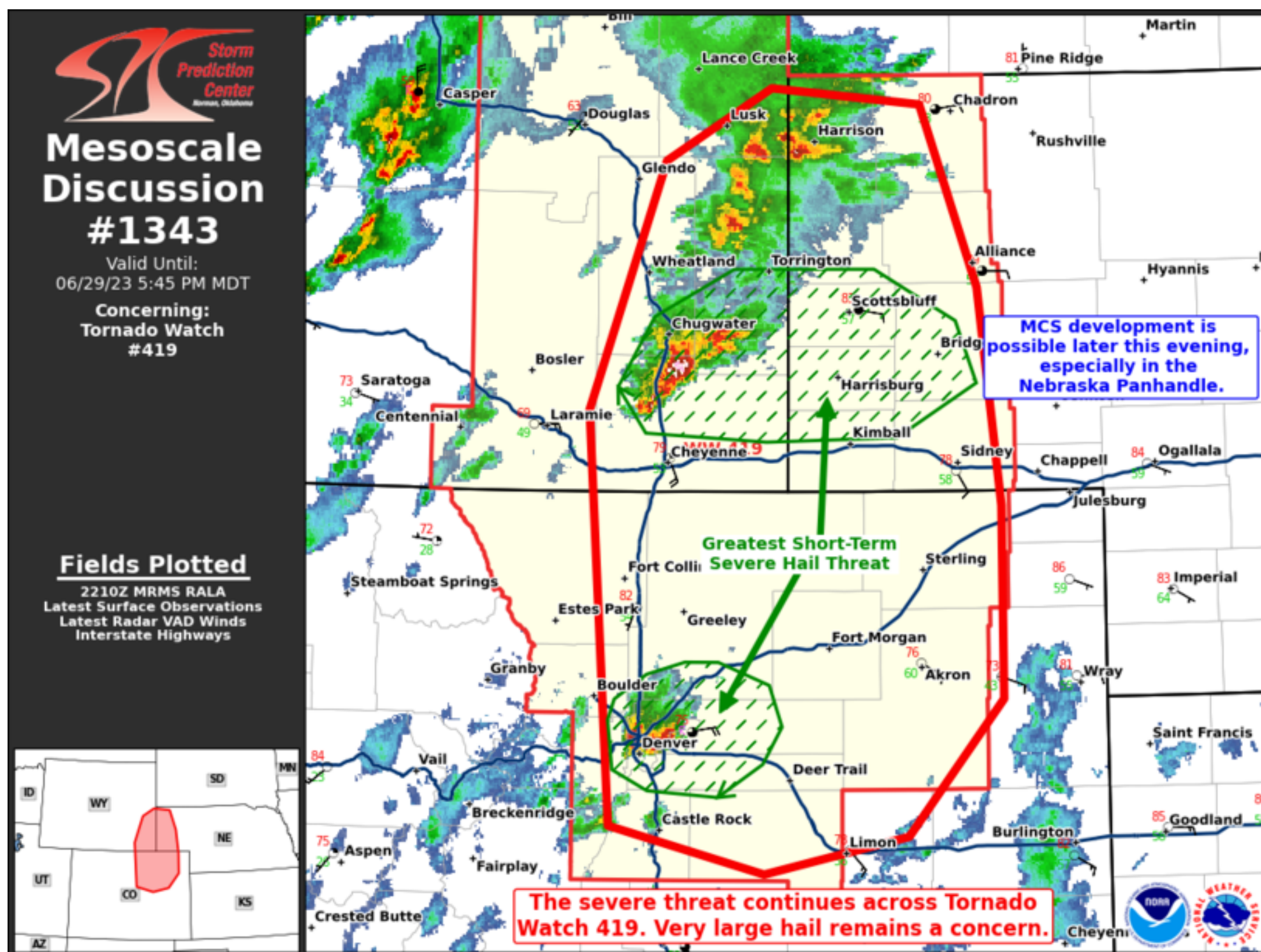
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Mesoscale Discussion 1343

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Mesoscale Discussion #1343

Valid Until: 06/29/23 5:45 PM MDT

Concerning: Tornado Watch #419

Fields Plotted

2210Z MRMS RALA
 Latest Surface Observations
 Latest Radar VAD Winds
 Interstate Highways



Mesoscale Discussion 1343
 NWS Storm Prediction Center Norman OK
 0512 PM CDT Thu Jun 29 2023

Areas affected...portions of southeast Wyoming into northeast Colorado and the Nebraska Panhandle

Concerning...Tornado Watch 419...

Valid 292212Z - 292345Z

The severe weather threat for Tornado Watch 419 continues.

SUMMARY...The severe threat continues across Tornado Watch 419. Very large hail remains a concern and an isolated tornado is still possible over the next few hours. Storms may eventually congeal into one or more MCSs with a severe wind threat later this evening.

DISCUSSION...Multiple multicellular clusters and supercells continue to progress eastward across eastern WY and the Denver Metropolitan area, with a history of severe hail. MRMS mosaic radar imagery shows these storms continuing to build in intensity, with 50 dBZ echoes approaching 40 kft with some of the supercell structures. 8+ C/km surface-500 mb lapse rates atop mid 50s F surface dewpoints are contributing to 2000+ J/kg MLCAPE ahead of the ongoing storms, where RAP forecast soundings also show elongated hodographs and 50+ kts of effective bulk shear. As such, the stronger multicells and supercells should continue to pose a large hail threat, with 2+ inch diameter stones possible with the stronger, longer-lived supercells. Low-level shear is relatively weak across the central High Plains, with ongoing supercells showing outflow tendencies. However, a tornado or two still cannot be ruled out, especially over southeast Wyoming. Here, enhanced upslope flow and relatively higher 0-3 km CAPE may enhance tilting/stretching potential if a storm can become inflow-dominant.

Nonetheless, storm outflows should support multicellular mergers later this evening, especially in/near the Nebraska Panhandle. Should this occur, severe gusts could become more prevalent.

..Squitieri.. 06/29/2023

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

ATTN...WFO...GLD...BOU...CYS...

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 40920270 39990270 39330329 39160420 39390516

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