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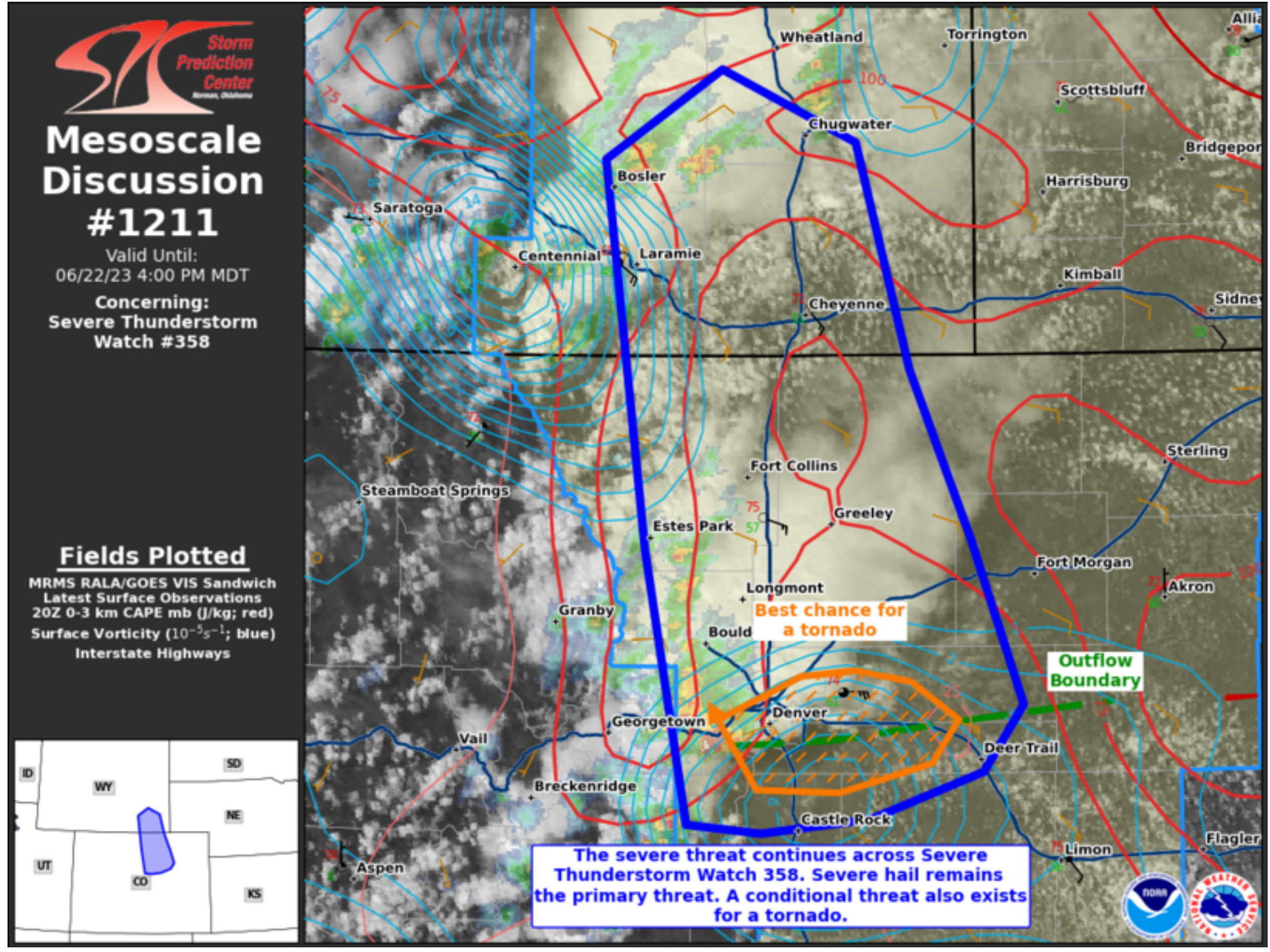
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Mesoscale Discussion 1211

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Mesoscale Discussion #1211

Valid Until:
06/22/23 4:00 PM MDT

Concerning:
Severe Thunderstorm Watch #358

Fields Plotted

MRMS RALA/GOES VIS Sandwich
Latest Surface Observations
20Z 0-3 km CAPE mb (J/kg; red)
Surface Vorticity ($10^{-5} s^{-1}$; blue)
Interstate Highways

Mesoscale Discussion 1211
 NWS Storm Prediction Center Norman OK
 0337 PM CDT Thu Jun 22 2023

Areas affected...Northeast Colorado into southeast Wyoming

Concerning...Severe Thunderstorm Watch 358...

Valid 222037Z - 222200Z

The severe weather threat for Severe Thunderstorm Watch 358 continues.

SUMMARY...The severe threat continues across Severe Thunderstorm Watch 358. Large hail (some 2+ inches in diameter) still appears to be the main threat, though localized landspout/tornado potential does exist, especially near and just east of the Denver metropolitan area.

DISCUSSION...MRMS mosaic and regional radar imagery depicts an uptick in convective coverage and intensity across western portions of Severe Thunderstorm Watch 358 (along the higher terrain of the Rockies). Given steep lapse rates, the stronger storms will be capable of producing severe hail (some 2+ inches in diameter). Furthermore, a west-to-east oriented surface boundary has become established across the DCVZ, just east of the Denver metropolitan area. In addition to the presence of this boundary, ample surface vertically oriented vorticity is also present. A rapidly intensifying supercell (with a history of producing golf ball sized hail) is approaching the Denver area and this vorticity rich environment. The one mitigating factor for robust low-level rotation may be relatively mediocre 0-3km CAPE. Nonetheless, it is not out of the question to see a supercell or landspout tornado develop with this supercell (or any other nearby storm that forms) at some point this afternoon.

..Squitieri.. 06/22/2023

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

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