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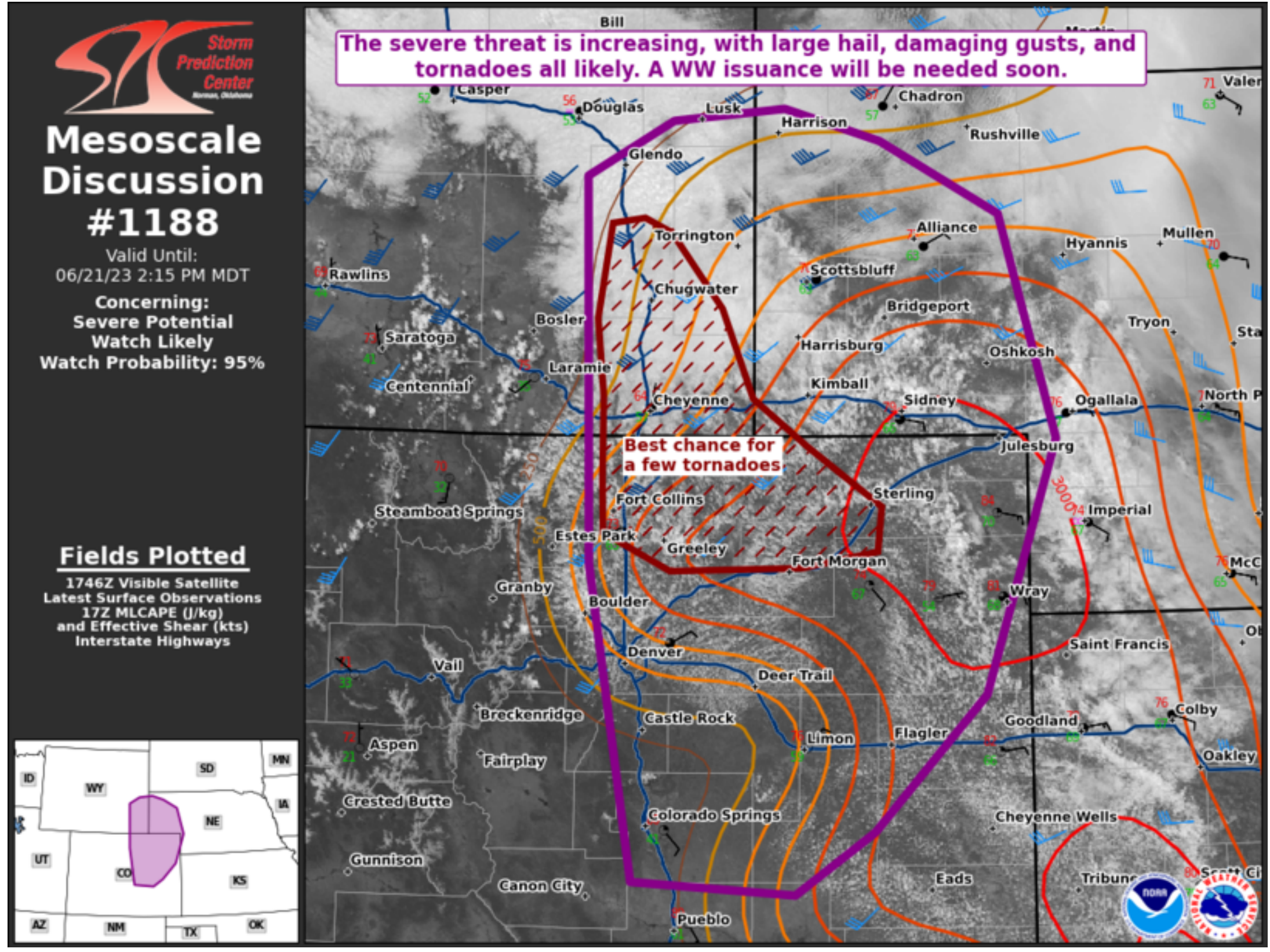
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Mesoscale Discussion 1188

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Mesoscale Discussion 1188
 NWS Storm Prediction Center Norman OK
 1251 PM CDT Wed Jun 21 2023

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

Concerning...Severe potential...Watch likely

Valid 211751Z - 212015Z

Probability of Watch Issuance...95 percent

SUMMARY...The severe threat is increasing across portions of the central High Plains. Large hail and damaging winds are likely, with tornadoes also possible across far northern CO into southeast WY. A WW issuance will be needed soon to address the impending threat.

DISCUSSION...An upper trough continues to progress toward the central Rockies, triggering a low-level mass response in the form of strong moisture advection with upslope flow. Up to 8 C/km low and mid-level lapse rates accompanies/overspreads anomalously rich low-level moisture (characterized by 70 F surface dewpoints per latest observations), contributing up to 3000 J/kg MLCAPE. As inhibition continues to erode, and the boundary layer deepens, convective initiation should occur to the immediate lee of the Rockies within the next few hours. Veering/strengthening flow with height supports modestly curved low/mid-level hodographs, which may favor supercells and multicell complexes early this afternoon. Large hail (some 2+ inches in diameter) and severe gusts may occur with any of the more mature storms that develop. In addition, locally stronger low-level shear will support some tornado potential across far northern CO, northwestward into WY. Tornado potential will be highest wherever storms can remain discrete the longest. A WW issuance will be needed soon.

..Squitieri/Hart.. 06/21/2023

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

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