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Mesoscale Discussion 744

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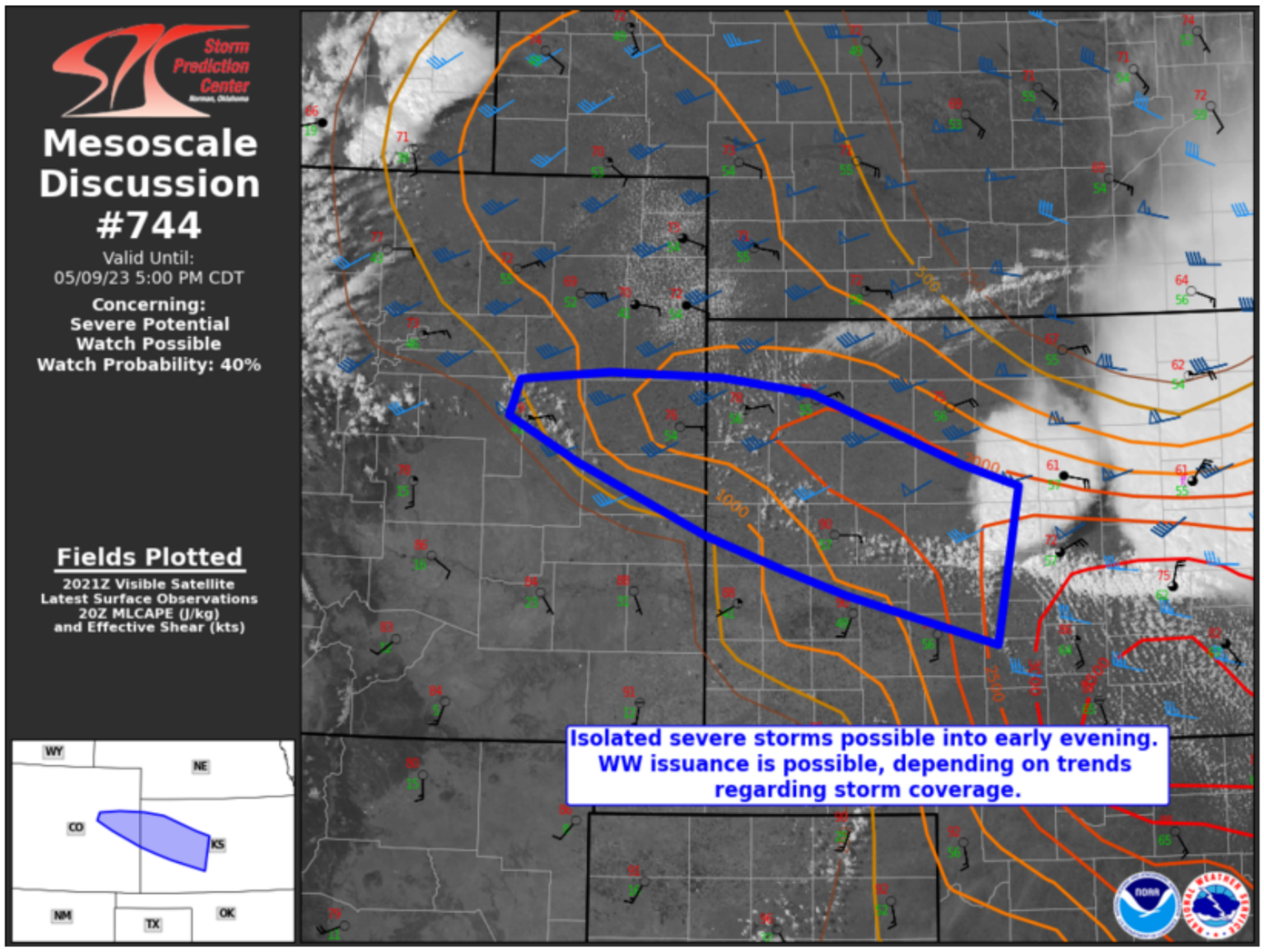

Mesoscale Discussion 0744
NWS Storm Prediction Center Norman OK
0327 PM CDT Tue May 09 2023

Areas affected...East-central CO into west-central KS

Concerning...Severe potential...Watch possible

Valid 092027Z - 092200Z

Probability of Watch Issuance...40 percent

SUMMARY...Isolated severe storms are possible into early evening, with a threat of large hail and localized severe gusts. Watch issuance is possible later this afternoon, depending on trends regarding expected storm coverage.

DISCUSSION...A supercell that is likely producing hail is ongoing at 2015 UTC across Rush County, KS, with other cumulus noted along a slow-moving surface boundary from west-central KS into east-central CO. Strong surface heating and modest low-level moisture is supporting MLCAPE in excess of 1500 J/kg near/north of the boundary across western KS, with more modest buoyancy into east-central CO.

Large-scale ascent is nebulous at best across the region, but continued heating/mixing and modest convergence along the surface boundary may support additional isolated storm development later this afternoon. Deep-layer flow is generally weak, but low-level east/southeasterly flow north of the boundary is supporting effective shear of 30-40 kt, sufficient for organized convection, including the potential for an additional supercell or two. Isolated hail and severe gusts are expected to be the primary threats into early evening. The need for a watch in this area remains uncertain, but watch issuance is possible later this afternoon depending on the trends regarding expected storm coverage.

..Dean/Guyer.. 05/09/2023

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

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