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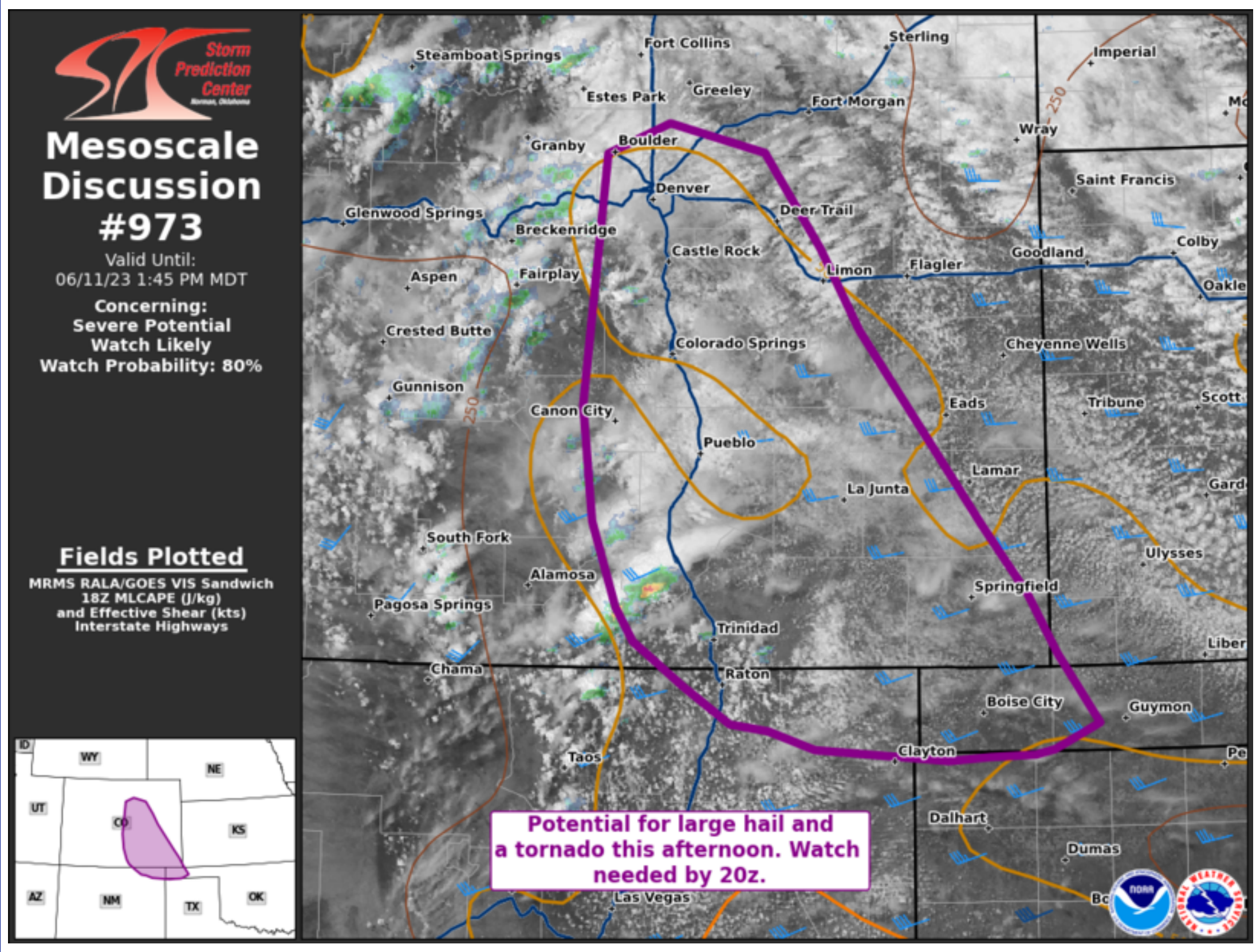
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Mesoscale Discussion 973

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Mesoscale Discussion #973
 Valid Until: 06/11/23 1:45 PM MDT
Concerning:
 Severe Potential
 Watch Likely
 Watch Probability: 80%

Fields Plotted
 MRMS RALA/GOES VIS Sandwich
 18Z MLCAPE (J/kg)
 and Effective Shear (kts)
 Interstate Highways



Mesoscale Discussion 0973
 NWS Storm Prediction Center Norman OK
 0144 PM CDT Sun Jun 11 2023

Areas affected...eastern Colorado into northeastern New Mexico and the Oklahoma Panhandle

Concerning...Severe potential...Watch likely

Valid 111844Z - 111945Z

Probability of Watch Issuance...80 percent

SUMMARY...Potential for large hail and a tornado with thunderstorm development this afternoon. Watch likely needed by around 20z.

DISCUSSION...Upslope flow across the high terrain in eastern New Mexico and Colorado will be the focus of thunderstorm development through the afternoon. Westerly flow will bring storms off the high terrain into the plains through the late afternoon and evening. Daytime heating should result in modest MLCAPE around 1000-1500 J/kg amid favorable deep layer shear around 40-45 kts. Hodograph structures are largely linear and elongated, with strong deep layer flow and steep lapse rates. This environment will support high-based supercell with the potential for large hail (with instances near 2 inches) and damaging winds. Weak low-level shear will limit tornado potential but any discrete supercells that become established could pose risk of a tornado as they track eastward into the better air mass across far eastern Colorado/Oklahoma Panhandle. A watch will likely be needed by around 20z.

..Thornton/Thompson.. 06/11/2023

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

ATTN...WFO...DDC...GLD...AMA...PUB...BOU...ABQ...

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 38970341 37820252 37410220 37060199 36650168 36510201
 36480216 36470248 36440279 36520375 36630410 36660438
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