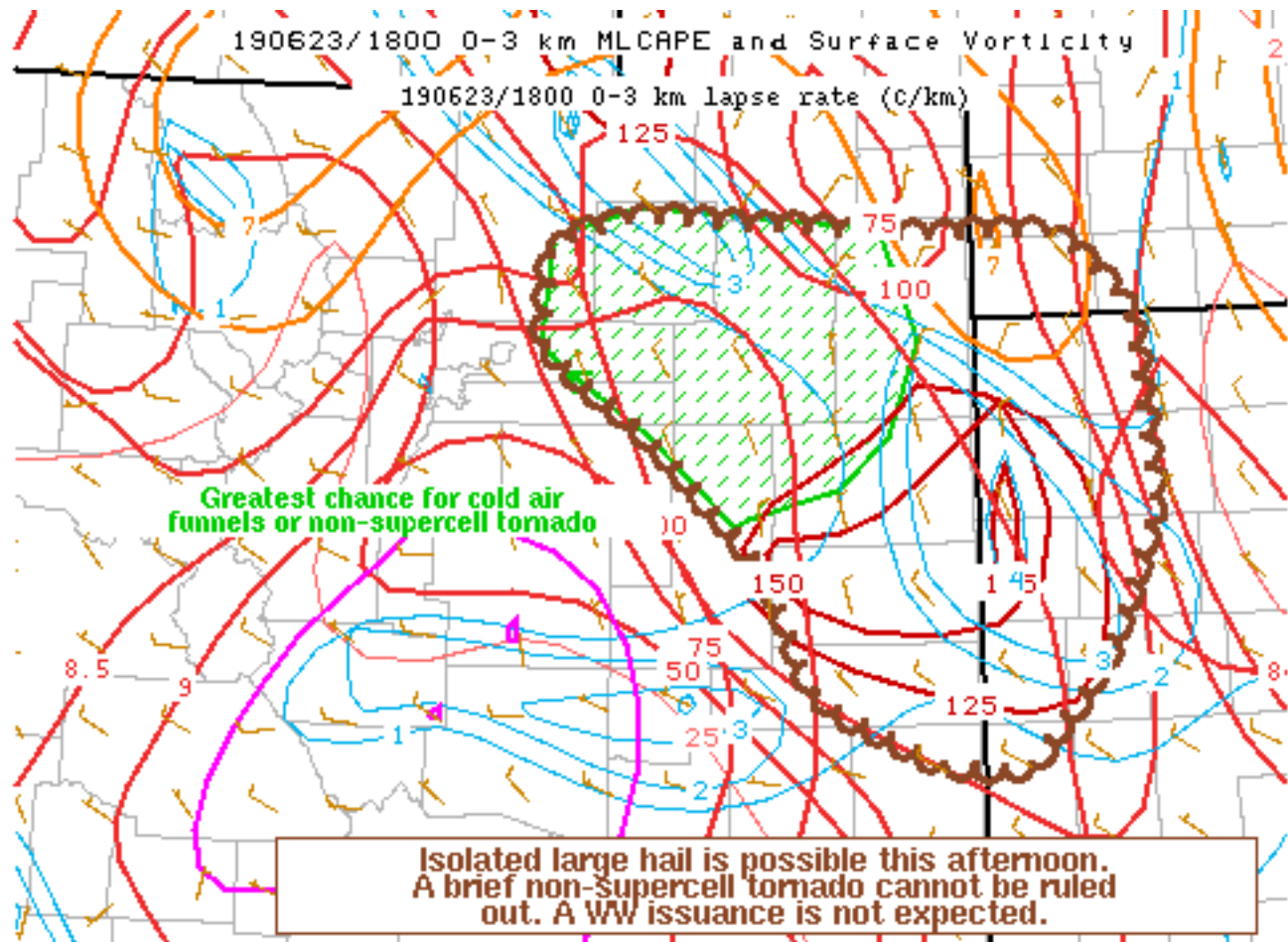


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Mesoscale Discussion 1217

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SPC MCD #1217

Mesoscale Discussion 1217

NWS Storm Prediction Center Norman OK

0141 PM CDT Sun Jun 23 2019

Areas affected...parts of eastern Colorado into northwest Kansas...extreme southwest Nebraska

Concerning...Severe potential...Watch unlikely

Valid 231841Z - 232045Z

Probability of Watch Issuance...20 percent

SUMMARY...A few storms may produce isolated marginally severe hail across far eastern Colorado into western Kansas during the afternoon hours. A few cells closer to the upper-level low center may continue to produce cold air funnels and possibly a brief non-supercell tornado. Given the isolated and marginal extent of the severe threat, a WW issuance is not anticipated.

DISCUSSION...A 500-300 mb stacked low is currently traversing the



central High Plains, advecting cold air atop a warming, modestly moist low-level atmosphere and promoting marginal instability across the area. Currently, over 500 J/kg MLCAPE and around 45 knots of effective bulk shear are present across the area, which may foster storm organization and at least transient mid-level rotation. With temperatures as cold as -19C at 500 mb noted over northeast Colorado, marginally severe hail may occur with any storm that can become organized and sustained.

In addition, reports of funnel clouds have been received within the past few hours across portion of north-central Colorado. Appreciable amounts of mid-level vertically oriented vorticity is present given the proximity of the aforementioned upper-level low, and with at least a marginally buoyant airmass in place, additional cold air funnels may occur. Relatively higher 0-3km CAPE, supportive of vigorous low-level vorticity stretching in convective updrafts, is present across far east Colorado into Kansas. However, modest near-surface vertically oriented vorticity was noted (via mesoanalysis) in proximity of Adams, Washington and Morgan Counties area. Should an inflow dominant updraft become established in this area, a brief non-supercell tornado cannot be ruled out given the deep-layer vorticity rich environment.

Still, the severe threat is expected to be limited enough in spatial/temporal extent to preclude a WW issuance.

..Squitieri/Hart.. 06/23/2019

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

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