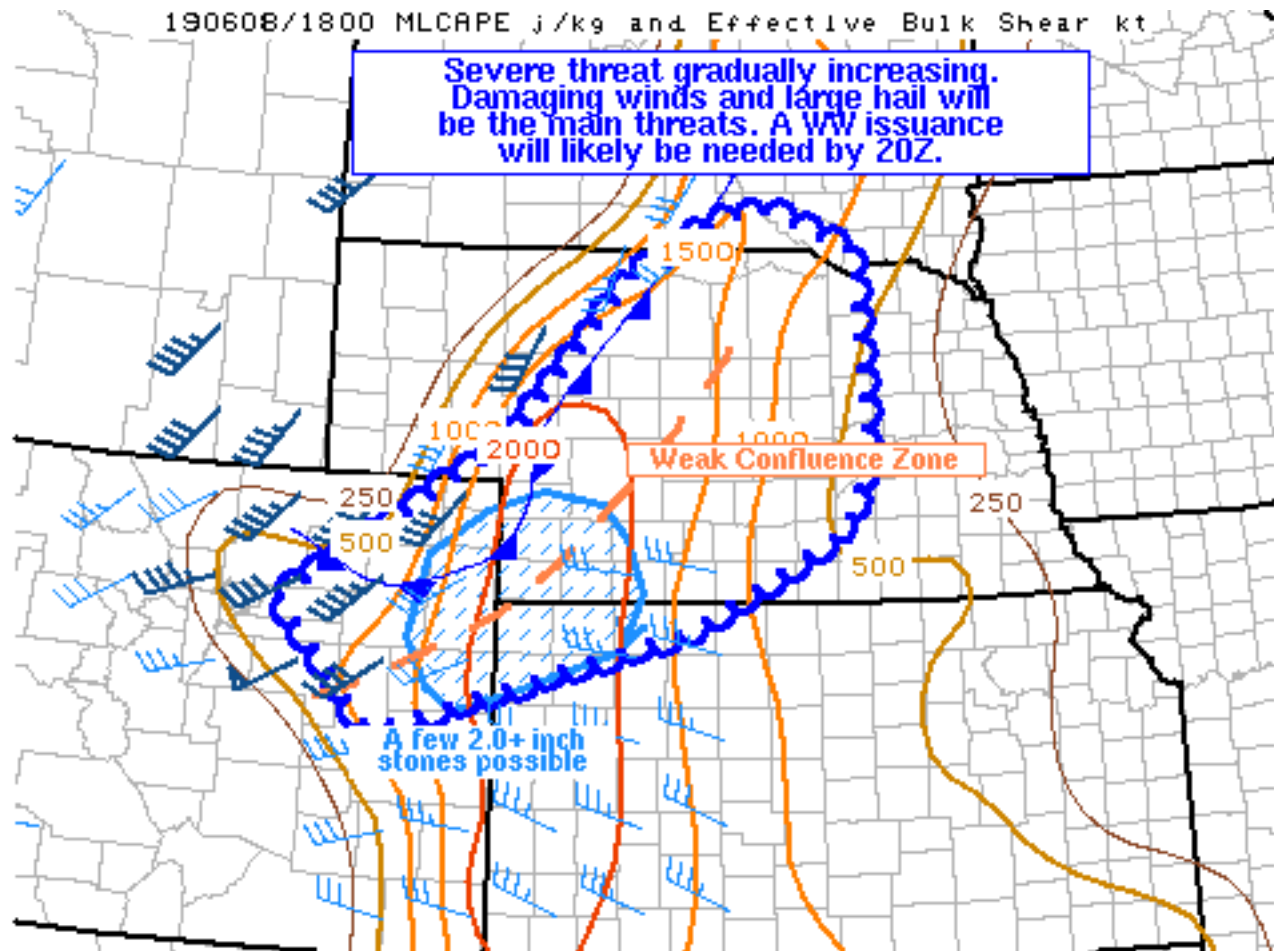


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Mesoscale Discussion 1026

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SPC MCD #1026

Mesoscale Discussion 1026

NWS Storm Prediction Center Norman OK

0218 PM CDT Sat Jun 08 2019

Areas affected...Portions of northeast Colorado...far northwest Kansas...southwest into central Nebraska

Concerning...Severe potential...Watch likely

Valid 081918Z - 082045Z

Probability of Watch Issuance...80 percent

SUMMARY...An increase in convective coverage is expected over the next few hours, with storms initiating mainly along the cold front, and perhaps along a weak confluence zone. The more organized storms may pose a damaging wind/large hail threat, with isolated very large hail possible, especially across parts of northeast Colorado into southwest Nebraska. A WW issuance will likely be needed by 20Z to address the severe potential.



DISCUSSION...A cold front continues to sag southward across the area, where multiple hours of insolation, beneath relatively steep (7.0+ C/km) lapse rates throughout the troposphere, has contributed to weakening convective inhibition and increasing instability (with up to 2000 J/kg MLCAPE noted). At least one low-level confluence zone was identified via visible satellite imagery, which may contribute to low-level lift for additional convection to initiate later this afternoon. Compared to areas farther north, mid-level flow will be oriented somewhat more perpendicular to the cold front, suggesting that convection may be more quasi-discrete in nature, with both multicellular clusters supercells possible. A couple sustained supercell structures, perhaps producing isolated instances of very large hail, may be observed in northeast Colorado into southwest Nebraska, where sfc-500 mb lapse rates of 7.5-8.0 C/km are expected.

Current thinking is that convection will first initiate immediately along the cold front across central Nebraska into northeast Colorado in the next couple of hours. A WW issuance will likely be needed by 20Z to address both developing severe threats.

..Squitieri/Thompson.. 06/08/2019

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

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