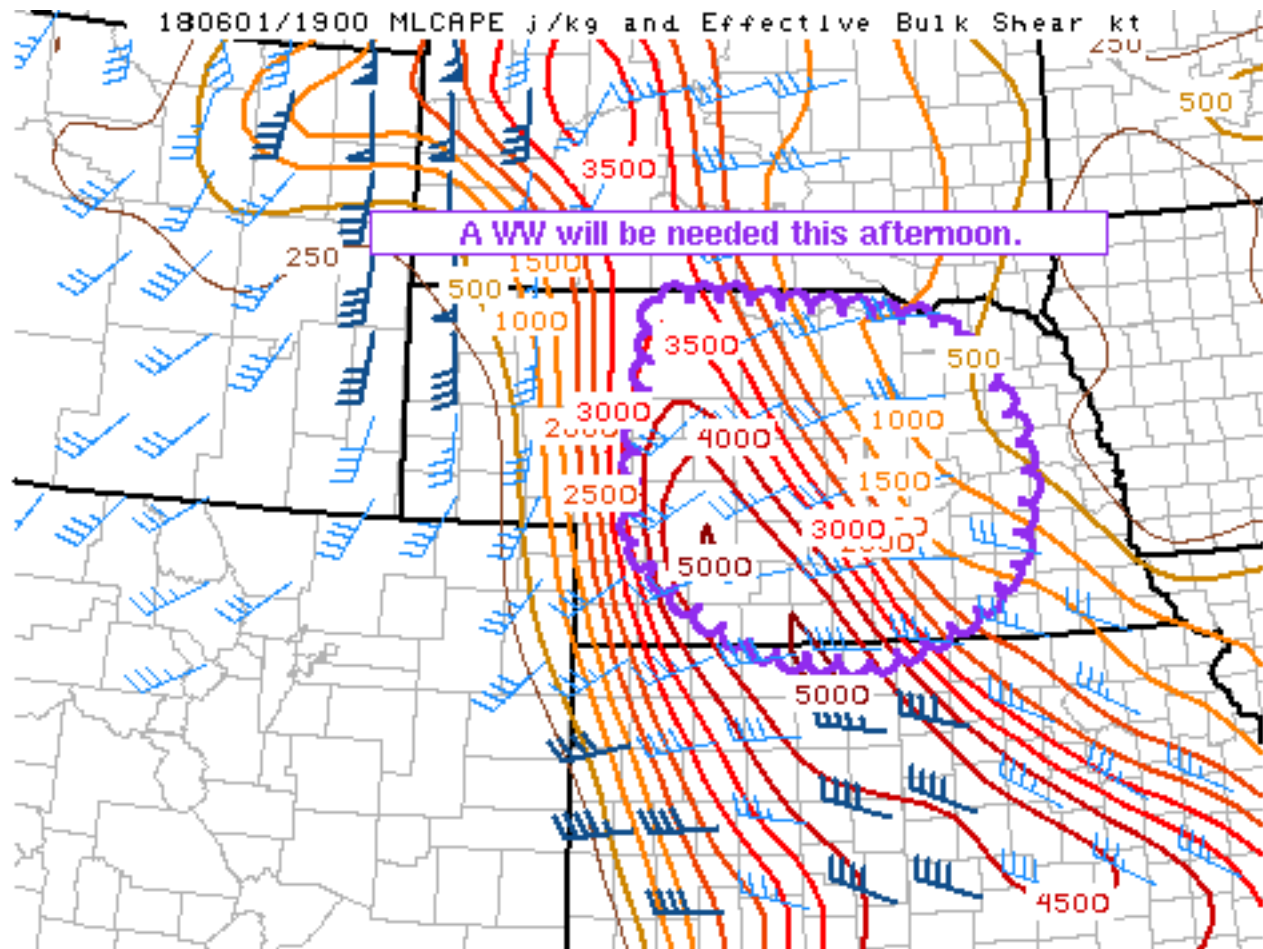


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Mesoscale Discussion 609

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SPC MCD #0609

Mesoscale Discussion 0609

NWS Storm Prediction Center Norman OK

0256 PM CDT Fri Jun 01 2018

Areas affected...Western and Central Nebraska

Concerning...Severe potential...Watch likely

Valid 011956Z - 012200Z

Probability of Watch Issuance...95 percent

SUMMARY...Severe potential is increasing. A WW will likely within the next hour.

DISCUSSION...Convective initiation is underway across far northern Nebraska, in an environment characterized by extreme instability (3500+ J/kg). While the 19Z LBF sounding indicates a cap remains in place, agitated cumulus north of LBF suggests convective inhibition is rapidly decreasing across central to northern Nebraska. The extreme instability combined with over 35 kts of effective bulk



shear and modest low-level shear (0-1km SRH greater than 100 m2/s2) suggest organized severe is likely. Damaging wind gusts and large hail (including very large hail exceeding 2+ inches) appear to be the main threats, though a tornado or two may also be possible given the high levels of buoyancy in place.

A WW will likely be needed shortly.

..Squitieri/Cook/Guyer.. 06/01/2018

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

ATTN...WFO...OAX...GID...LBF...GLD...

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