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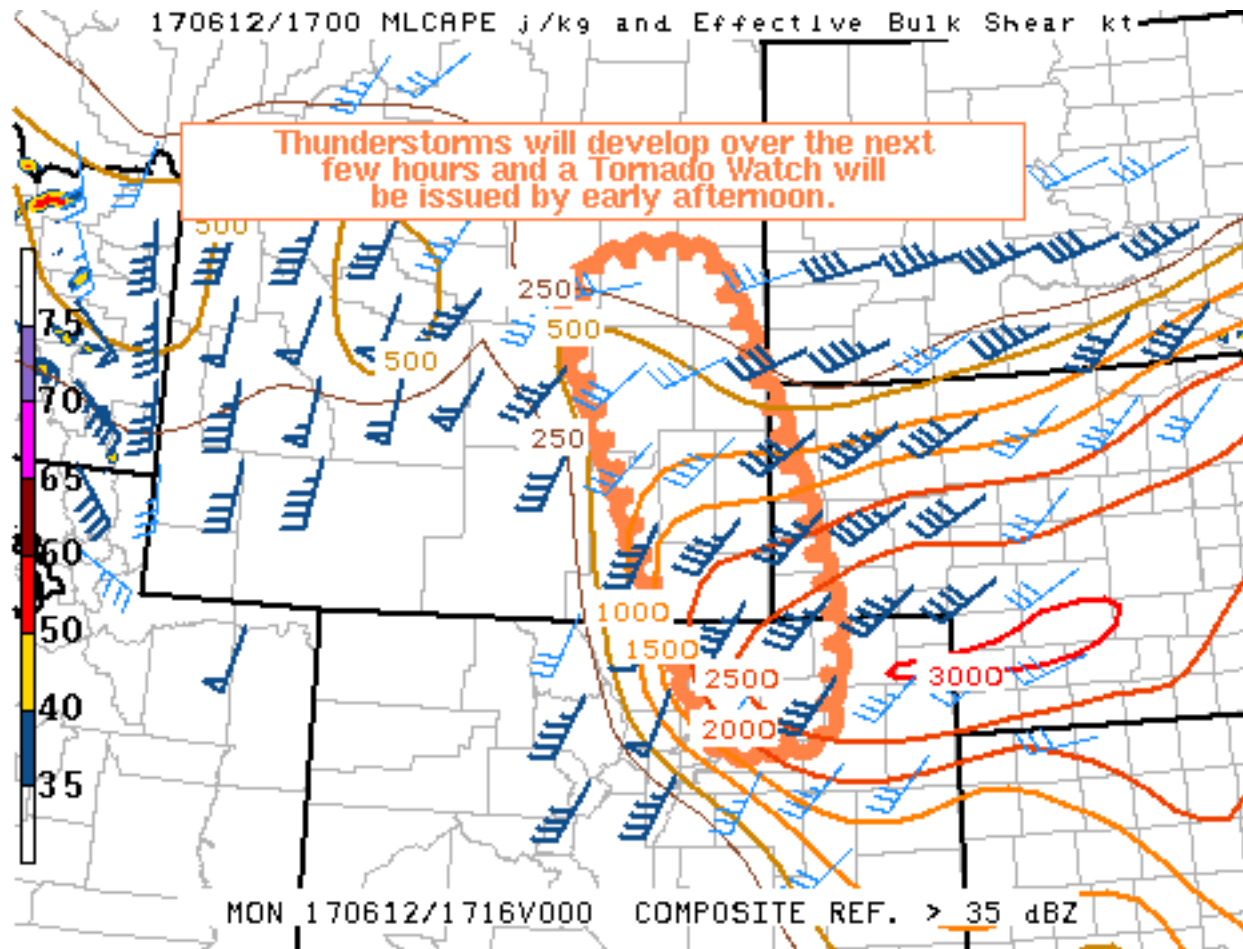
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SPC MCD #0995

Mesoscale Discussion 0995

NWS Storm Prediction Center Norman OK

1229 PM CDT Mon Jun 12 2017

Areas affected...Portions of eastern Wyoming...northeast Colorado...western Nebraska and southwest South Dakota

Concerning...Severe potential...Tornado Watch likely

Valid 121729Z - 121930Z

Probability of Watch Issuance...95 percent

SUMMARY...Potentially rapid development of severe thunderstorms including supercells is expected by early-mid afternoon. Tornadoes, some potentially strong, along with very large hail and damaging winds will be possible. A Tornado Watch will be issued by early afternoon.

DISCUSSION...Surface observational trends show a very moist upslope low-level flow across the discussion area at 17z with surface dew

points in the mid 50s-lower 60s. Breaks in cloud cover are allowing for steady diurnal heating and moderate/strong surfaced-based buoyancy is expected to be in place by early-mid afternoon. Latest visible imagery depicts a few towering cumulus clouds along the west edge of the deeper moisture across central Wyoming, and thunderstorm development will become likely over the next couple of hours with continued heating/low-level upslope flow and large-scale ascent in advance of an upper low over Nevada. Strengthening mid-level flow will result in deep-layer shear of 50-60 kts across the area, favoring supercell structures as the initial storm mode. Very steep mid-level lapse rates will be favorable for very large hail, and increasing low-level winds with time will result in long hodographs with substantial low-level curvature/low-level SRH. Given this setup, strong tornadoes will be possible this afternoon.

Given recent observational trends, a Tornado Watch will be needed early this afternoon.

..Bunting/Hart.. 06/12/2017

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

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