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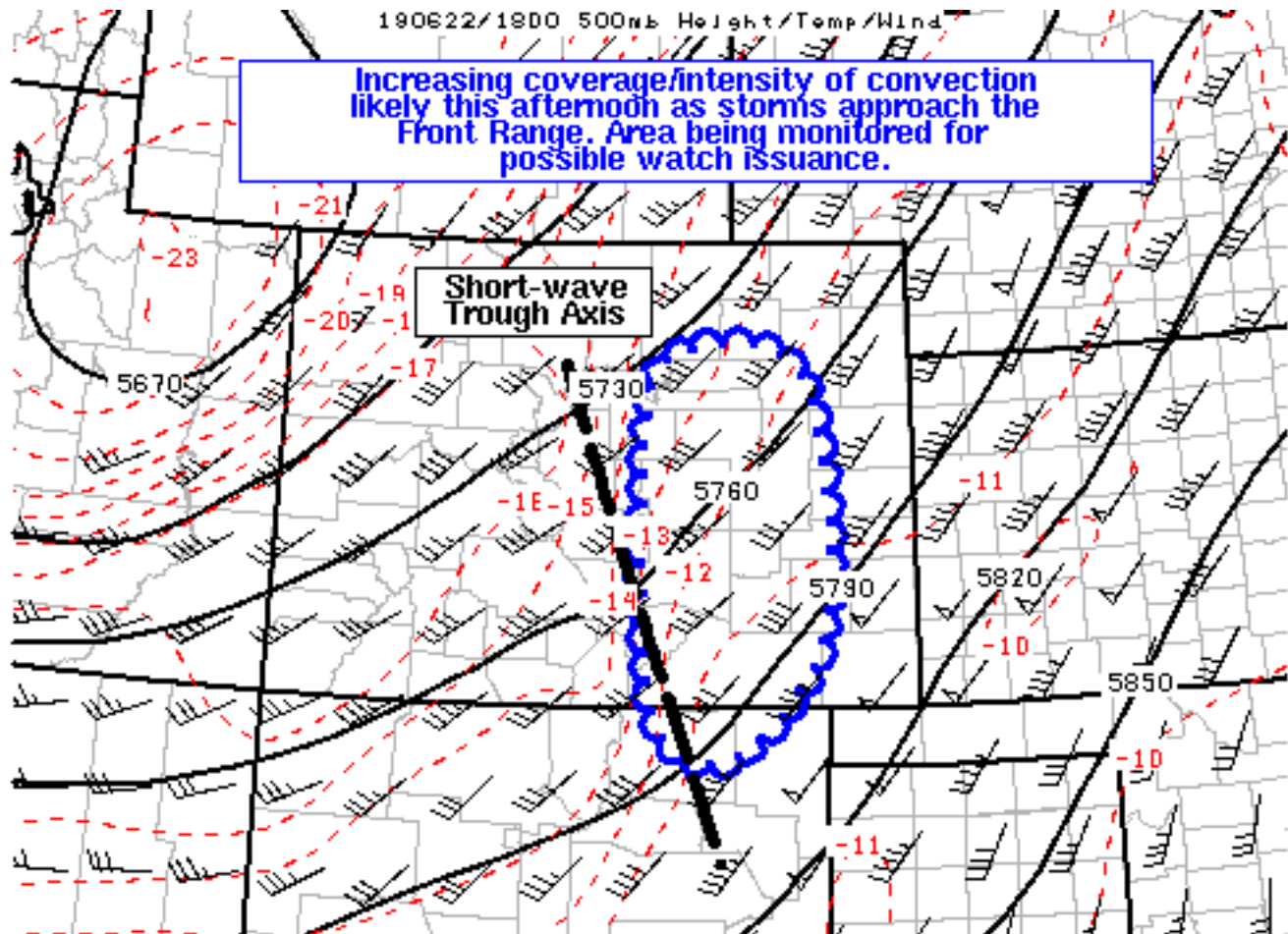
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Mesoscale Discussion 1199

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190622/1800 500mb Height/Temp/Wind

Increasing coverage/intensity of convection likely this afternoon as storms approach the Front Range. Area being monitored for possible watch issuance.



SPC MCD #1199

Mesoscale Discussion 1199

NWS Storm Prediction Center Norman OK

0311 PM CDT Sat Jun 22 2019

Areas affected...Central/Eastern Colorado and far Northeast New Mexico

Concerning...Severe potential...Watch possible

Valid 222011Z - 222215Z

Probability of Watch Issuance...60 percent

SUMMARY...Increasing coverage/intensity of convection likely this afternoon as storms approach the Front Range. Area being monitored for possible watch issuance.

DISCUSSION...Regional mesoanalysis depicts a well-defined mid-level short-wave trough over central Colorado advancing steadily eastward. This feature is providing the impetus for large-scale forcing for ascent that, along with cold-air advection aloft, has led to modest



destabilization over central Colorado amidst shallow/meager low-level moisture over the central Rockies. Consequently, scattered/marginal convection has developed over the region that is now approaching the Front Range. Meanwhile, surface winds along and east of the Front Range are acquiring more of an easterly/upslope component in response to the approaching short wave.

As convection propagates eastward and into the lower-terrain areas along and east of the Front Range, storms are expected to intensify as they encounter richer boundary-layer moisture and greater instability (MLCAPE 1000-1500 J/kg). These storms should acquire supercell characteristics, given ample effective bulk shear (45-50 kt), posing a threat for mainly large hail and damaging wind gusts. Convective trends will continue to be monitored for possible watch issuance by late afternoon.

..Karstens/Hart.. 06/22/2019

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

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NOAA / National Weather Service
National Centers for Environmental Prediction
Storm Prediction Center
120 David L. Boren Blvd.
Norman, OK 73072 U.S.A.
spc.feedback@noaa.gov
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