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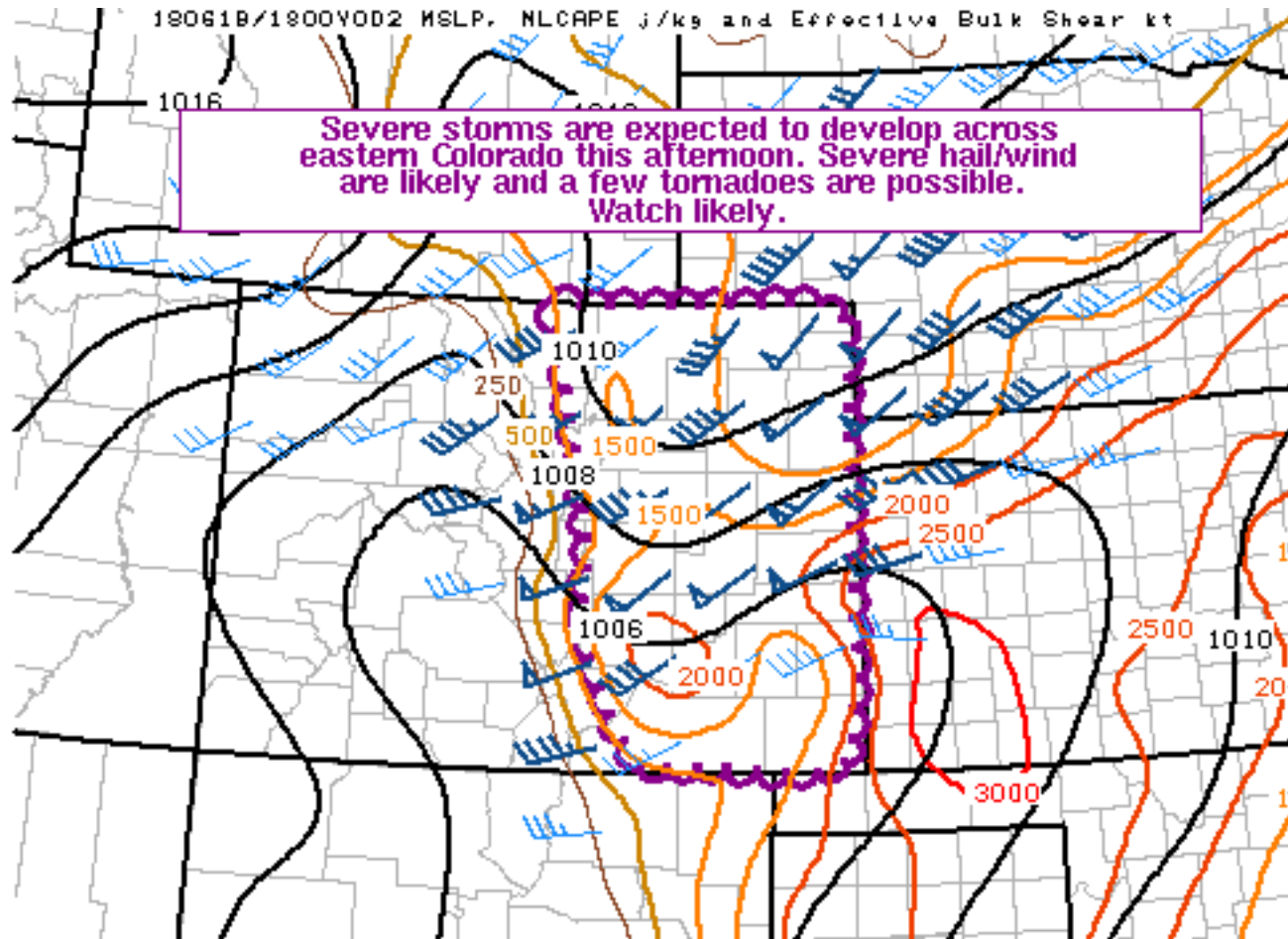
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## Mesoscale Discussion 791

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SPC MCD #0791

Mesoscale Discussion 0791

NWS Storm Prediction Center Norman OK

1248 PM CDT Tue Jun 19 2018

Areas affected...Eastern Colorado

Concerning...Severe potential...Watch likely

Valid 191748Z - 191945Z

Probability of Watch Issuance...80 percent

SUMMARY...Severe storms are expected to develop across eastern Colorado this afternoon including supercells. Large hail and damaging winds are likely and a few tornadoes are possible.

DISCUSSION...Latest visible satellite imagery shows building cumulus along the Front Range with a thunderstorm near Boulder. Storms will continue developing along the Front Range and move eastward during the afternoon. An upper-level speed maxima is moving into the region that will help ascent and aid updraft development associated with

upslope flow. Effective bulk shear of 40-55 knots and forecast MLCAPE of 1500-2000 J/kg should result in a conducive environment for strong to severe thunderstorms. While low level flow remains relatively weak, easterly surface winds with stronger southwest flow aloft should provide enough veering in the profile to support rotating updrafts.

Latest HRRR guidance shows a few discrete supercells forming along and east of the Front Range and continuing eastward through the afternoon. A multi-cell cluster should form in southeast Colorado separate from the Front Range convection in the vicinity of a surface low and front. These could merge later and form a downstream MCS into the evening. Large hail, damaging winds, and a few tornadoes are all possible if not likely especially with the strongest storms.

..Nauslar/Peters/Weiss.. 06/19/2018

...Please see [www.spc.noaa.gov](http://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](mailto:spc.feedback@noaa.gov)  
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