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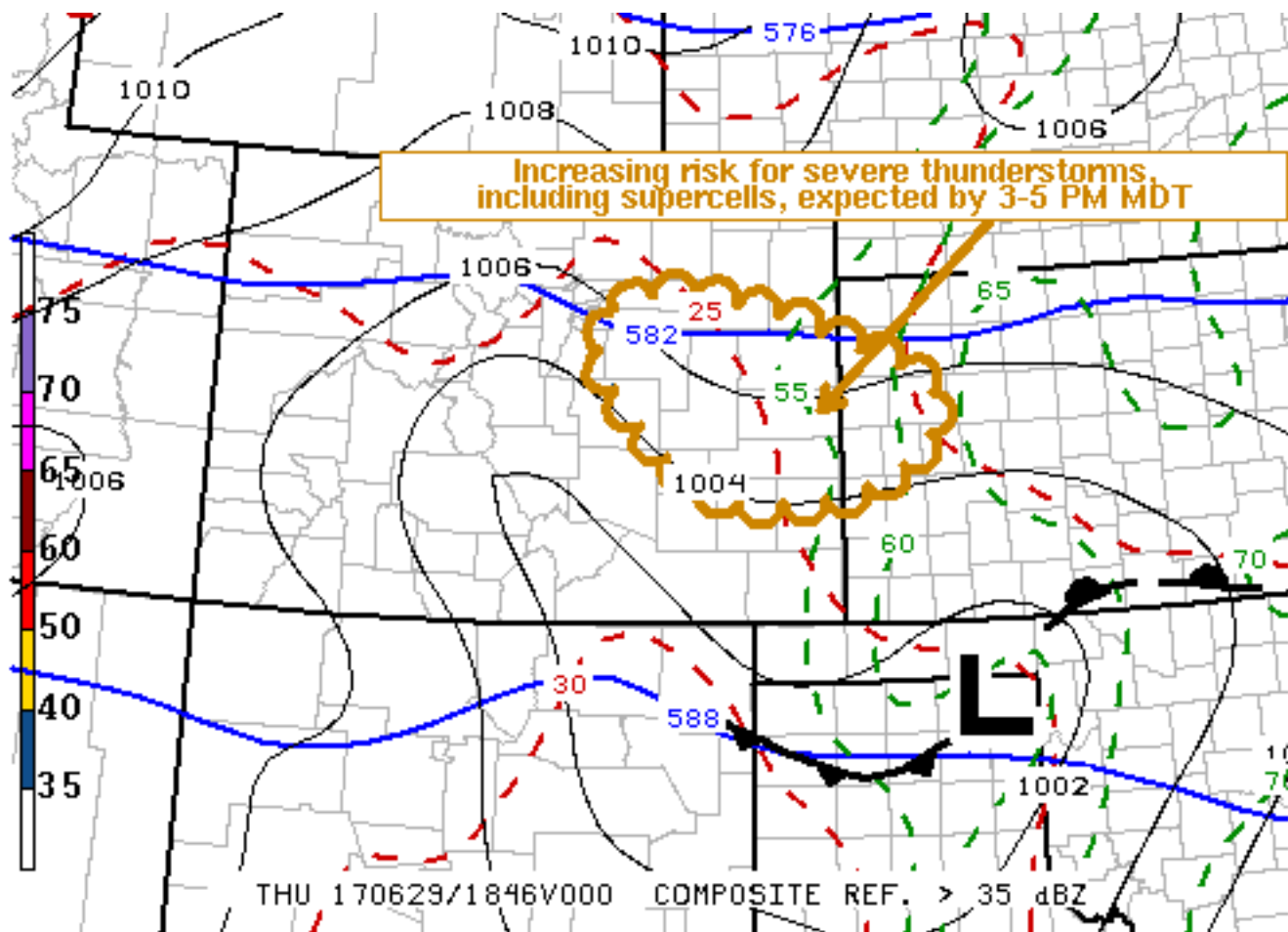
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SPC Feedback

Mesoscale Discussion 1184

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SPC MCD #1184

Mesoscale Discussion 1184
 NWS Storm Prediction Center Norman OK
 0205 PM CDT Thu Jun 29 2017

Areas affected...Parts of central/eastern Colorado and adjacent western Kansas

Concerning...Severe potential...Watch possible

Valid 291905Z - 292130Z

Probability of Watch Issuance...60 percent

SUMMARY...Isolated strong to severe storm development is possible within the next hour or two near the Colorado Front Range, mainly south of Denver. A more appreciable severe weather threat is expected to subsequently evolve across and east of the Palmer Divide area by the 3-5 PM MDT time frame. Although timing is still a bit uncertain, trends are being monitored for a severe weather watch issuance.

DISCUSSION...Latest water vapor imagery suggests that the leading edge of large-scale forcing for ascent, associated with a vigorous upper trough digging across the northern U.S. Rockies, is in the process of developing south/southeastward across the Colorado Front Range region. This may be enhancing initial attempts at convective development across the higher terrain, in response to orographic forcing.

Highest boundary layer moisture content to the immediate lee of the mountains appears focused near the Palmer Divide, across the Limon into Colorado Springs area, where thunderstorms may be in the process of initiating, and could pose at least some severe weather risk within the next couple of hours. Aided by veering winds with height beneath 30+ kt westerly 500 mb flow, vertical shear is strong and probably sufficient for supercells.

With time, model output appears to suggest that moistening north to northeasterly upslope flow will focus stronger destabilization along the Palmer Divide, with continued insolation this afternoon. This may support a more notable increase in thunderstorm development and intensification by the 21-23Z time frame.

..Kerr/Guyer.. 06/29/2017

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

ATTN...WFO...DDC...GLD...PUB...BOU...

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