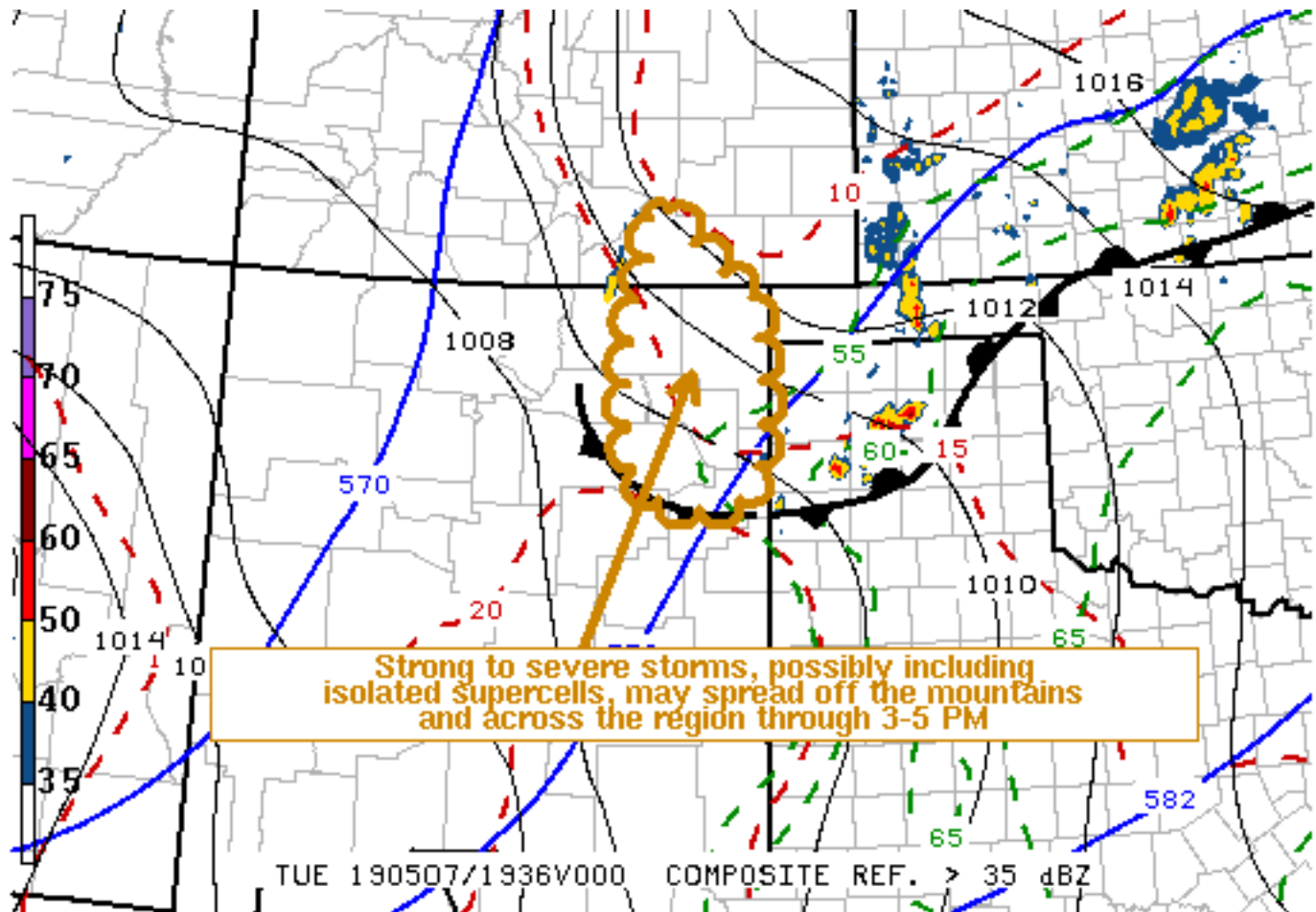


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Mesoscale Discussion 572

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SPC MCD #0572

Mesoscale Discussion 0572

NWS Storm Prediction Center Norman OK

0249 PM CDT Tue May 07 2019

Areas affected...Parts of northeastern New Mexico and southeastern Colorado

Concerning...Severe potential...Watch possible

Valid 071949Z - 072145Z

Probability of Watch Issuance...40 percent

SUMMARY...Scattered strong to severe storms, including isolated supercells, appear likely to develop off the Sangre de Cristo Mountains, across and south of the Raton Mesa area through 3-5 PM MDT. It is not yet certain that a watch will be required, but trends are being monitored for this possibility.

DISCUSSION...Downstream of the closed mid-level low now turning east-northeastward into the southern Rockies, orographic and



large-scale forcing for ascent are contributing to the initiation of thunderstorms near the Sangre de Cristo Mountains. At the same time, insolation within post-frontal easterly low-level to the lee of the mountains is contributing to steepening low-level lapse rates and weak to modest boundary-layer destabilization. As inhibition for boundary layer parcels continues to erode, storms will propagate east of the mountain through late afternoon, aided by 30+ kt southwesterly ambient mean flow. With pronounced veering of lower through mid-tropospheric wind fields contributing to strong deep layer shear, a few supercells are possible, accompanied primarily by the risk for severe hail and localized strong surface gusts.

..Kerr/Guyer.. 05/07/2019

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

ATTN...WFO...PUB...ABQ...

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