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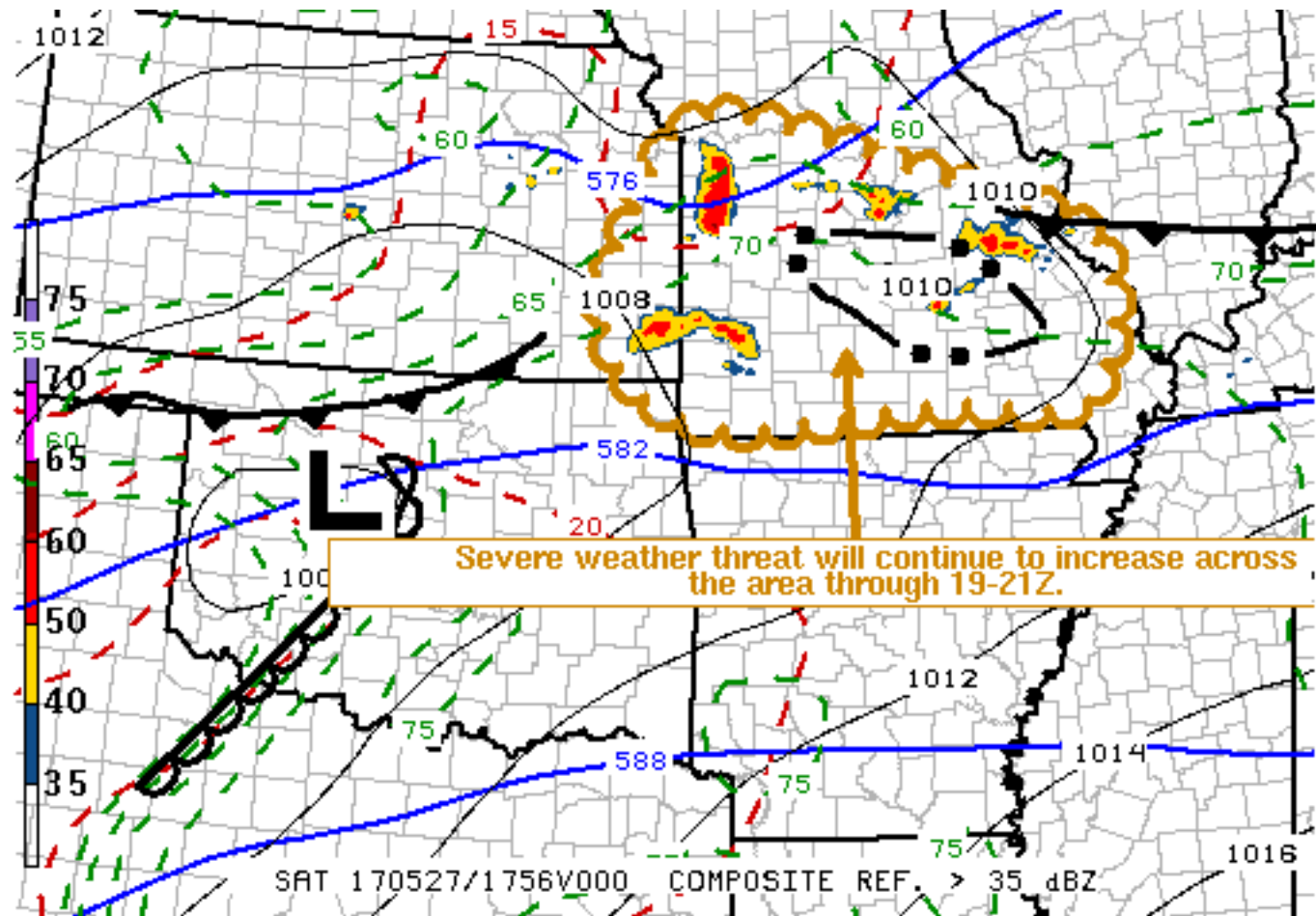
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SPC MCD #0864

Mesoscale Discussion 0864

NWS Storm Prediction Center Norman OK

0112 PM CDT Sat May 27 2017

Areas affected...Central and southern Missouri

Concerning...Tornado Watch 275...

Valid 271812Z - 271945Z

The severe weather threat for Tornado Watch 275 continues.

SUMMARY...Severe thunderstorm potential continues to increase, particularly across parts of western/southern Missouri through the 19-21Z time frame. This includes the risk for tornadoes and very large hail in at least a couple of supercells, before potentially damaging wind gusts begin to become a more prominent threat.

DISCUSSION...Intense thunderstorm development is now well underway across the lower Missouri Valley and Missouri Ozarks region, generally focused within a broad/diffuse mid-level baroclinic zone,

to the north of the plume of warmer and more strongly capping elevated mixed layer air emanating from the Mexican Plateau region. A residual pocket of cooler and more stable boundary layer air (due to early day cloud cover and precipitation) remains present across much of south central Missouri, centered along the Interstate 44 between Springfield and St. Louis. It remains unclear, what impact that this will have on longer term convective trends, particularly storms now southeast of Kansas City. At least in the near term, though, an evolving supercell on the southern flank of this evolving cluster may pose a risk for tornadoes, in addition to very large hail, near/west and southwest of Sedalia into the Missouri Ozarks through 20-21z.

Otherwise, the evolving cluster of storms to the west of Springfield appears to have longer term access to stronger instability, and may become more prominent across and east of the Springfield area during the next few hours. It appears possible that an evolving supercell on the western flank of this activity could pose a risk for tornadoes in the presence of modestly large low-level hodographs near/north through east of Joplin, before upscale convective growth results in a more substantive risk for potentially damaging wind gusts.

..Kerr.. 05/27/2017

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

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