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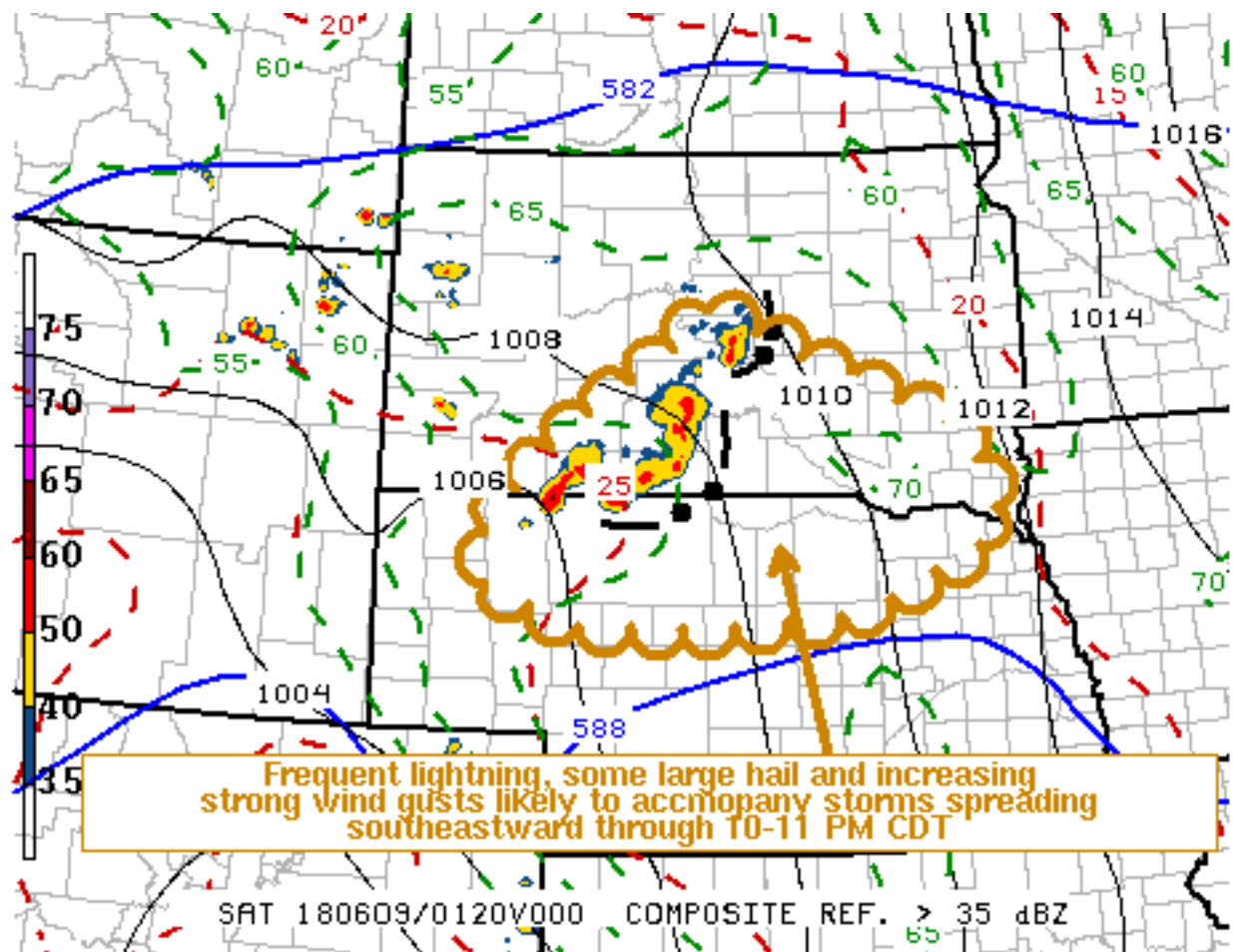
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## Mesoscale Discussion 675

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SPC MCD #0675

Mesoscale Discussion 0675

NWS Storm Prediction Center Norman OK

0840 PM CDT Fri Jun 08 2018

Areas affected...South central South Dakota...north central Nebraska

Concerning...Severe Thunderstorm Watch [163](#)...[164](#)...

Valid 090140Z - 090315Z

The severe weather threat for Severe Thunderstorm Watch 163, 164 continues.

SUMMARY...Frequent cloud to ground lightning, heavy rain and some hail will remain possible with the evolving convective system, and the potential for strong wind gusts is still expected to increase, as it spreads southeastward into portions of the Nebraska Sand Hills and mid Missouri Valley through 10-11 PM CDT.

DISCUSSION...In the presence of weak to modest lower/mid tropospheric warm advection, a sizable thunderstorm cluster

continues to evolve and organize near the central South Dakota/Nebraska border area. Deep layer shear remains modest, but is contributing to a general southeastward propagation of stronger convection. It does appear that an associated conglomerate surface cold pool is continuing to strengthen/deepen, and associated lift may maintain intense convection, despite increasing inhibition associated with the onset of diurnal cooling and warmer mid-level air with southwestward extent into the central high plains. CAPE within the southerly low-level inflow remains large, and further strengthening of the cold pool seems probable during the next few hours. As this occurs, the development of more widespread strong winds still appears possible, particularly along the gust front as it begins to surge southeastward.

..Kerr.. 06/09/2018

...Please see [www.spc.noaa.gov](http://www.spc.noaa.gov) for graphic product...

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