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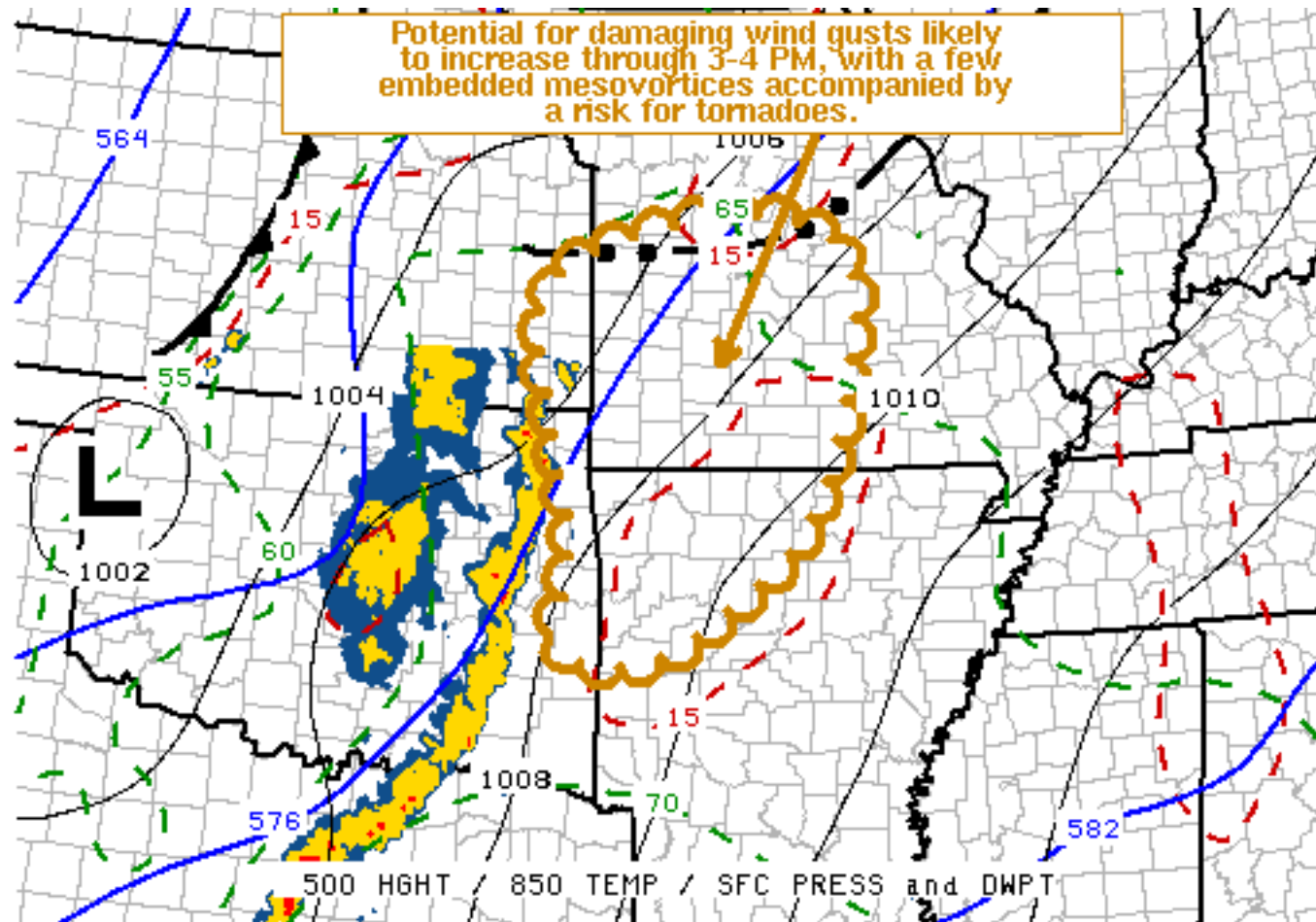
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SPC Feedback

Mesoscale Discussion 670

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SPC MCD #0670

Mesoscale Discussion 0670

NWS Storm Prediction Center Norman OK

1247 PM CDT Sat May 18 2019

Areas affected...Parts of northeastern Oklahoma...southeastern Kansas into southwest through central Missouri and northwest Arkansas

Concerning...Tornado Watch [182](#)...

Valid 181747Z - 181915Z

The severe weather threat for Tornado Watch 182 continues.

SUMMARY...Potential for damaging wind gusts appears likely to continue to increase across northwest Arkansas and southwest into central Missouri through 3-4 PM CDT. Trends are being monitored for the possibility of additional watches northeast and east of tornado watch 182.

DISCUSSION...The northern flank of the extensive ongoing mesoscale



convective system is maintaining strength, with extensive trailing stratiform precipitation also continuing to develop. Activity appears embedded within 40+ kt southwesterly deep layer ambient mean flow, with enough of a perpendicular component to allow for a 30-35+ kt northeastward progression.

At the same time, boundary layer warming and moistening continue ahead of the squall line across much of Arkansas and Missouri, to the south a remnant stalling or perhaps slowly retreating outflow boundary now roughly near/south of the Interstate 70 corridor of central/western Missouri. With additional insolation and strengthening of the convectively generated cold pool, there appears potential for the development and strengthening of a rear inflow jet which may support a continuing northeastward acceleration of the squall line through 20-21Z. As this occurs, it will likely be accompanied by increasing potential for severe winds along the gust front, along with perhaps a few embedded mesovortices.

..Kerr.. 05/18/2019

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

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