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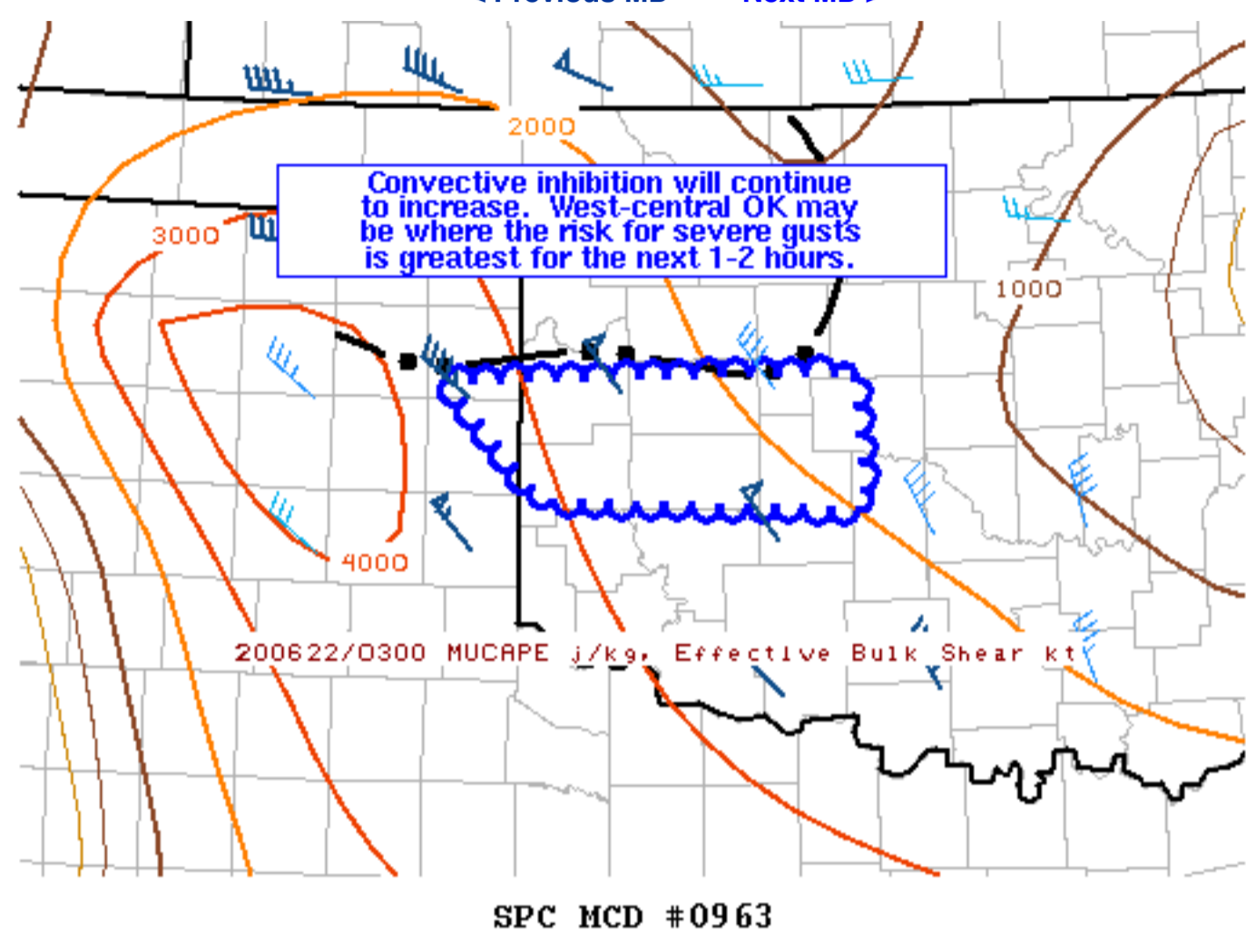
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Mesoscale Discussion 963

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Mesoscale Discussion 0963

NWS Storm Prediction Center Norman OK
1013 PM CDT Sun Jun 21 2020

Areas affected...west-central OK

Concerning...Severe Thunderstorm Watch [293](#)...

Valid 220313Z - 220445Z

The severe weather threat for Severe Thunderstorm Watch 293 continues.

SUMMARY...Convective inhibition will continue to increase due to a cooling boundary layer. West-central OK may be where the risk for severe gusts (60-65 mph) is greatest for the next 1-2 hours.

DISCUSSION...Subjective surface mesoanalysis indicates a moist/instability axis is located from north TX into far western OK with an instability gradient (implied via cooler surface temperatures) arcing from southeast OK north-northwestward into the greater OKC metro area. The 7pm Norman, OK observed sounding showed 1300 J/kg MUCAPE and appreciable convective inhibition. Radar mosaic shows a well-organized squall line over northwest OK moving southeast. The more intense cores are preferentially developing on the western flank of the squall line from the northeast TX Panhandle into Ellis County, OK. As the squall line moves southeast, a risk for strong to locally severe gusts will continue, but the threat appears most concentrated over west-central OK. In the past hour, OK Mesonet sites in northwest OK have observed gusts around 55 mph. Peak gusts ranging from 55-65 mph are expected for the next few hours. The spatial coverage of the higher gusts will probably continue to slowly become more isolated as the thunderstorms move into central OK during the early overnight.

..Smith.. 06/22/2020

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

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