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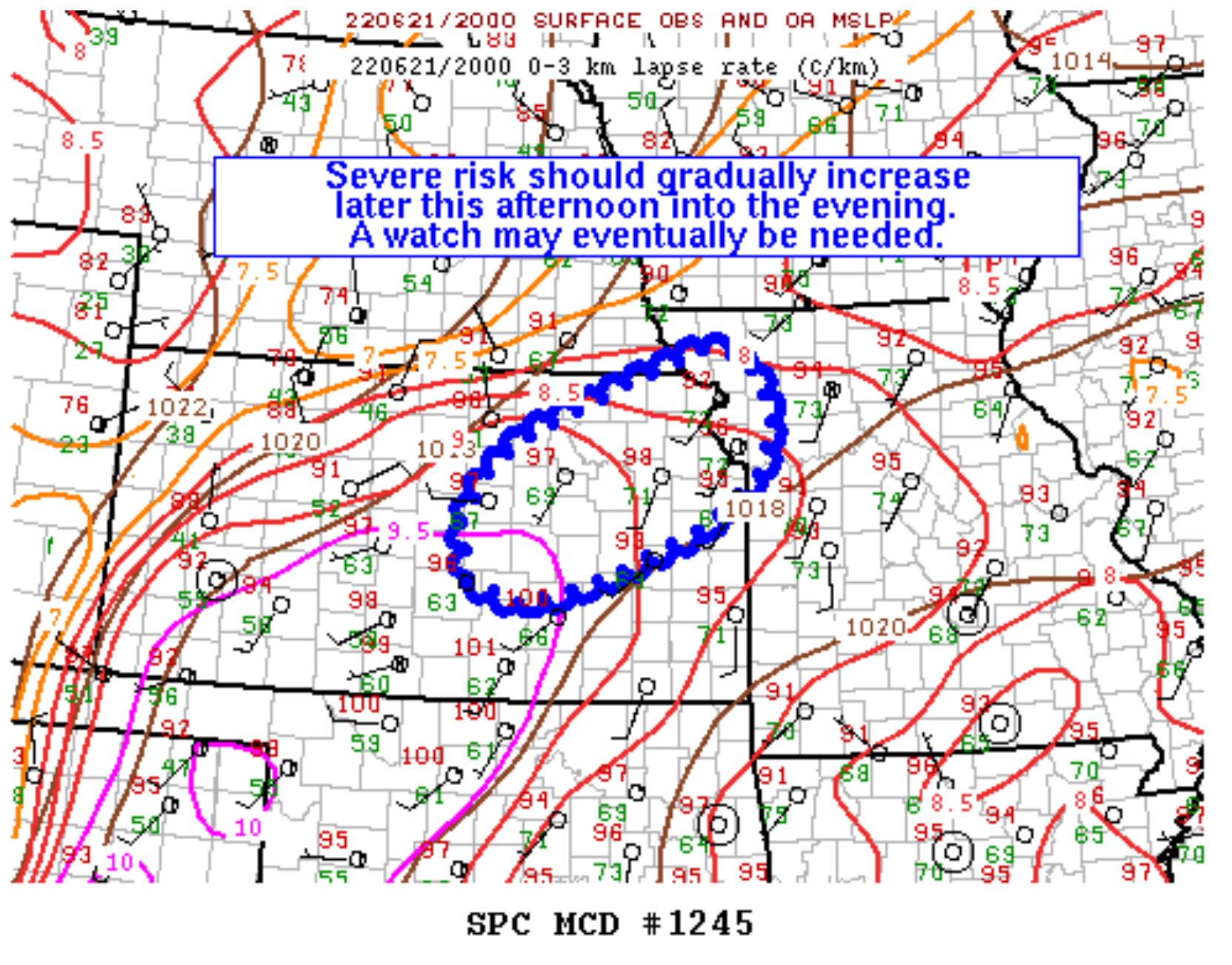
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Mesoscale Discussion 1245

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Mesoscale Discussion 1245
NWS Storm Prediction Center Norman OK
0343 PM CDT Tue Jun 21 2022

Areas affected...Parts of northeast Kansas into far northwest Missouri

Concerning...Severe potential...Watch possible

Valid 212043Z - 212315Z

Probability of Watch Issuance...60 percent

SUMMARY...The risk of locally damaging gusts and isolated large hail should increase across parts of northeast Kansas into far northwest Missouri between 22-00Z. Trends are being monitored for possible watch issuance this afternoon.

DISCUSSION...Latest surface observations depict a quasi-stationary cold front extending from central Iowa southwestward into central Kansas. While a shallow cumulus field is evident along the surface front/wind shift, deeper cumulus is building northward from northern Oklahoma into southern Kansas -- aided by an influx of steeper low-level lapse rates. While isolated convection is developing within this cumulus field, buoyancy is generally limited over southwest Kansas despite the well-mixed boundary layer.

As the deepening cumulus field and related updrafts gradually spread northward and impinge on the frontal boundary, convective coverage should gradually increase over parts of Kansas. While stronger midlevel flow is displaced to the cool side of the front, temperatures in the upper 90s to 100 F amid upper 60s boundary-layer dewpoints over eastern Kansas into northwest Missouri are contributing to moderate/strong surface-based buoyancy. Deep-layer flow/storm motions parallel to the surface front and weakening MLCINH should favor congealing cold pools with time, and as they intercept the increasing buoyancy to the east, loosely organized multicell clusters capable of locally damaging gusts and isolated large hail will be possible. Given weak large-scale ascent over the area, there is considerable uncertainty in storm coverage/intensity. Therefore, trends will continue to be monitored, and a watch could eventually be needed for this activity.

Areas farther north along the front in northern Missouri into Iowa are also being monitored this afternoon, and a severe risk could eventually evolve over these areas as well.

..Weinman/Grams.. 06/21/2022

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

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