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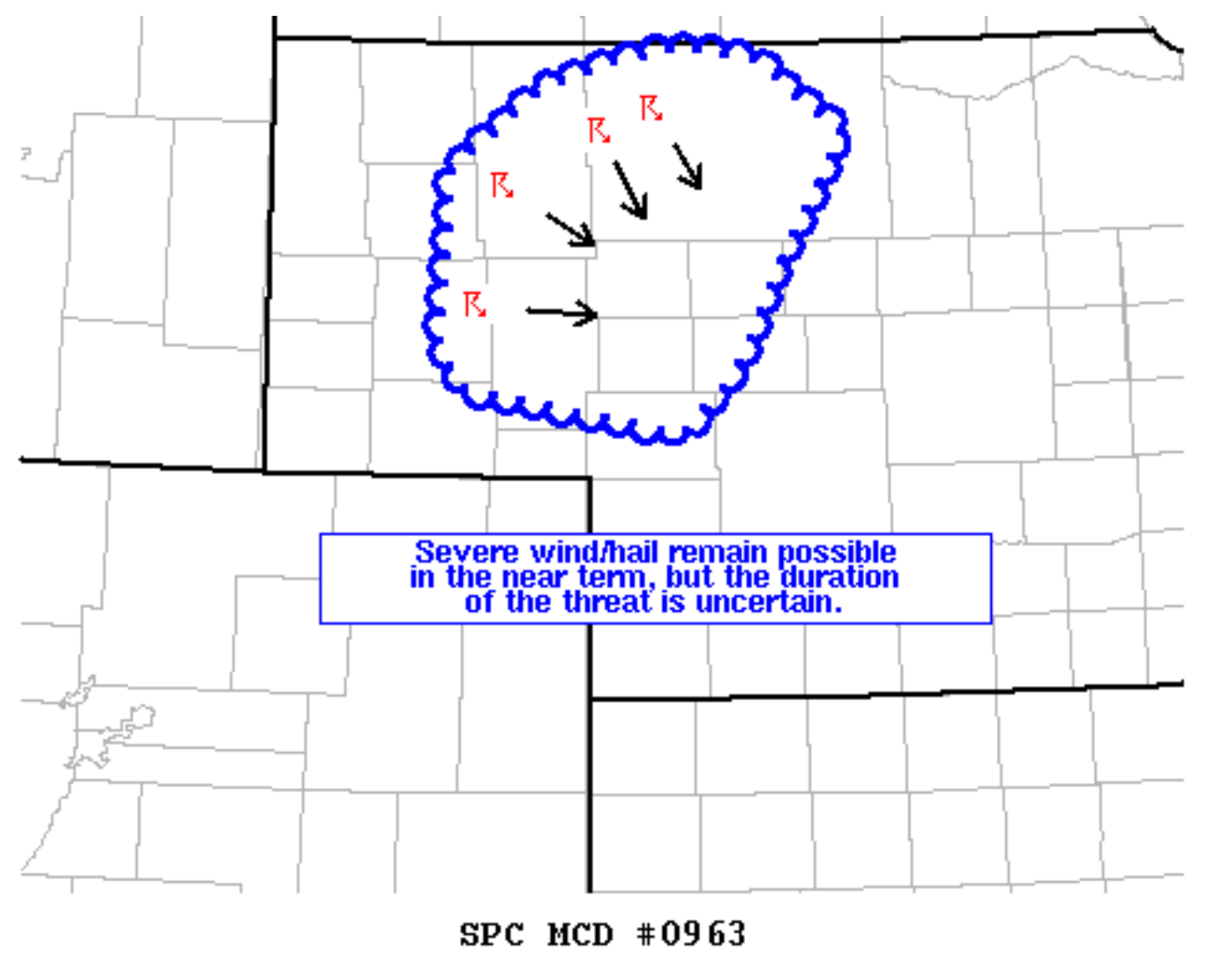
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## Mesoscale Discussion 963

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Mesoscale Discussion 0963  
NWS Storm Prediction Center Norman OK  
0939 PM CDT Sun Jun 13 2021

Areas affected...Western Nebraska

Concerning...Severe potential...Watch unlikely 268...

Valid 140239Z - 140445Z

Probability of Watch Issuance...20 percent

SUMMARY...The threat for severe wind and hail will continue across portions of western Nebraska for the next 1-2 hours, but the duration of the threat after 04 UTC is uncertain.

DISCUSSION...Thunderstorms ongoing across western and northwestern NE continue to produce instances of measured severe wind gusts as well as hail up to 1.5 inches. The convection that developed within the warm frontal zone near the NE/SD border has been slow to grow upscale with only recent cold pool organization noted in KLNx velocity data. This activity will continue to migrate to the southeast and interact with a broken line of storms moving eastward out of the NE Panhandle. This interaction should maximize convergence to the west/northwest of the KLNx area and provide sufficient lift for continued development (and a continued severe threat) in the near term given nearly 2000 J/kg MLCAPE in place.

The severe potential becomes less certain by (and after) 04 UTC as the storms move towards the KLNx area. The 00Z North Platte sounding revealed around -130 J/kg MLCIN, and decreasing low-level moisture to the east of KLNx suggests capping may be stronger with eastward extent. Storms will likely struggle to maintain intensity in this environment in the absence of more organized mesocyclones (which is unlikely given the limited deep-layer shear). Recent hi-res guidance supports this idea, suggesting that the severe threat should diminish after 04 UTC.

..Moore.. 06/14/2021

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

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