



Local forecast by "City, St" or "ZIP"

City, St



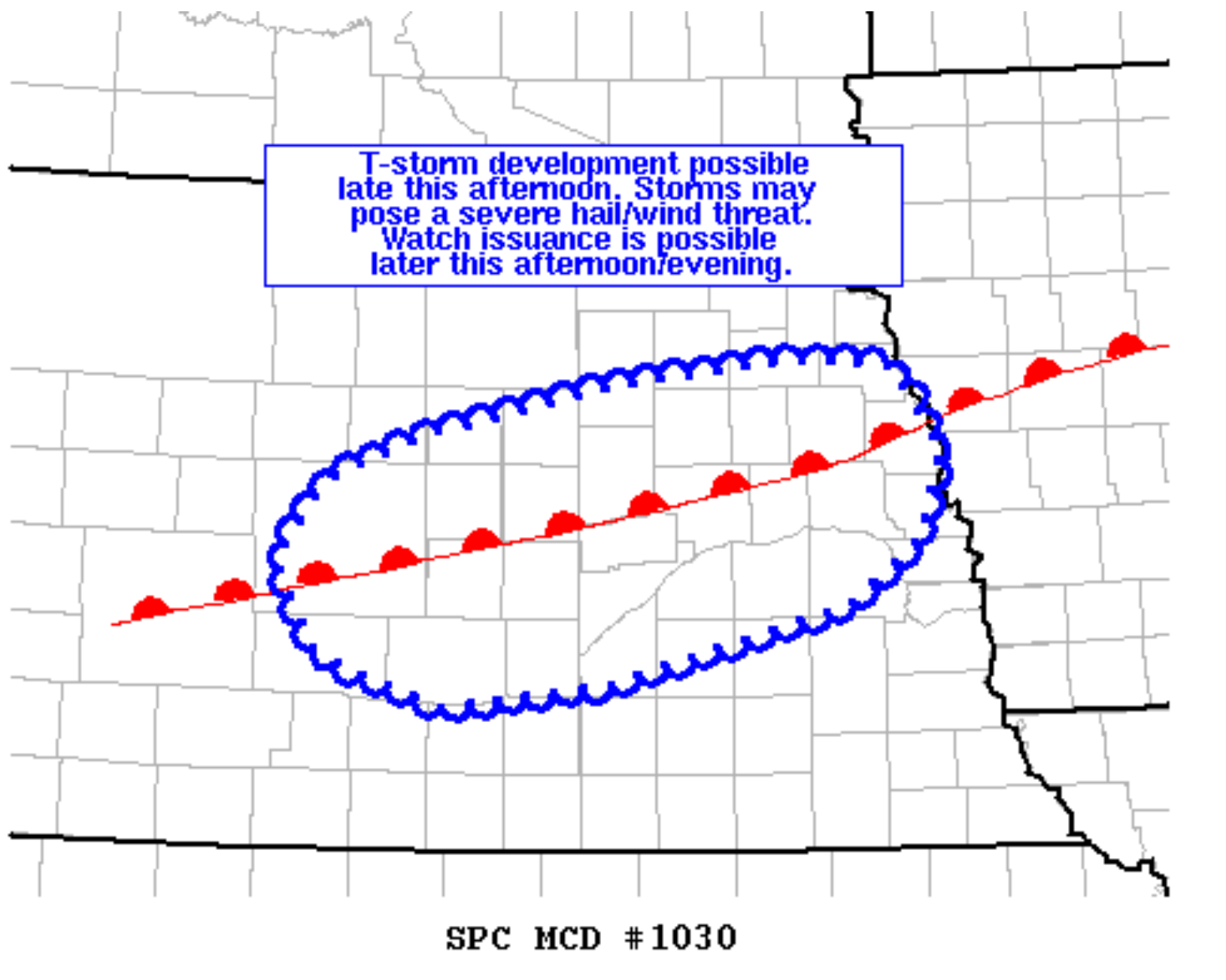
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Mesoscale Discussion 1030

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Mesoscale Discussion 1030
 NWS Storm Prediction Center Norman OK
 0349 PM CDT Sat Jun 04 2022

Areas affected...Central to eastern Nebraska

Concerning...Severe potential...Watch possible

Valid 042049Z - 042245Z

Probability of Watch Issuance...60 percent

SUMMARY...Thunderstorm development is possible by late afternoon along a warm front draped across central to eastern Nebraska. Storms may be capable of severe hail and wind. A watch is possible later this afternoon/evening to address this concern if/when a widespread threat becomes apparent.

DISCUSSION...Latest surface observations show a stationary boundary/warm front draped across western to eastern NE. A growing cumulus field is noted along this boundary across parts of central to eastern NE, and recent GOES Day Cloud Phase imagery suggest several towers are beginning to deepen within this zone with some cloud glaciation occurring. This trend is in line with recent hi-res guidance, which shows convective initiation along the warm front in the coming hours. Temperatures in the low to mid 80s with dewpoints in the 60s are supporting MLCAPE values on the order of 1500-2000 J/kg with minimal inhibition remaining per latest mesoanalysis and modified RAP forecast soundings. Although regional VWP are sampling rather modest low-level flow, 30-40 knot winds aloft are supporting adequate effective shear for storm organization. As such, initially discrete cells along the front will likely become organized and pose a severe hail/wind threat. Although storm coverage remains somewhat uncertain given the lack of appreciable synoptic forcing for ascent, outflow consolidation and storm clustering is possible given sufficient storm coverage due to a marginal off-boundary deep-layer shear component along and north of the front. Trends will be monitored as storms develop with watch issuance possible in the coming hours.

..Moore/Guyer.. 06/04/2022

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

ATTN...WFO...OAX...GID...LBF...

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