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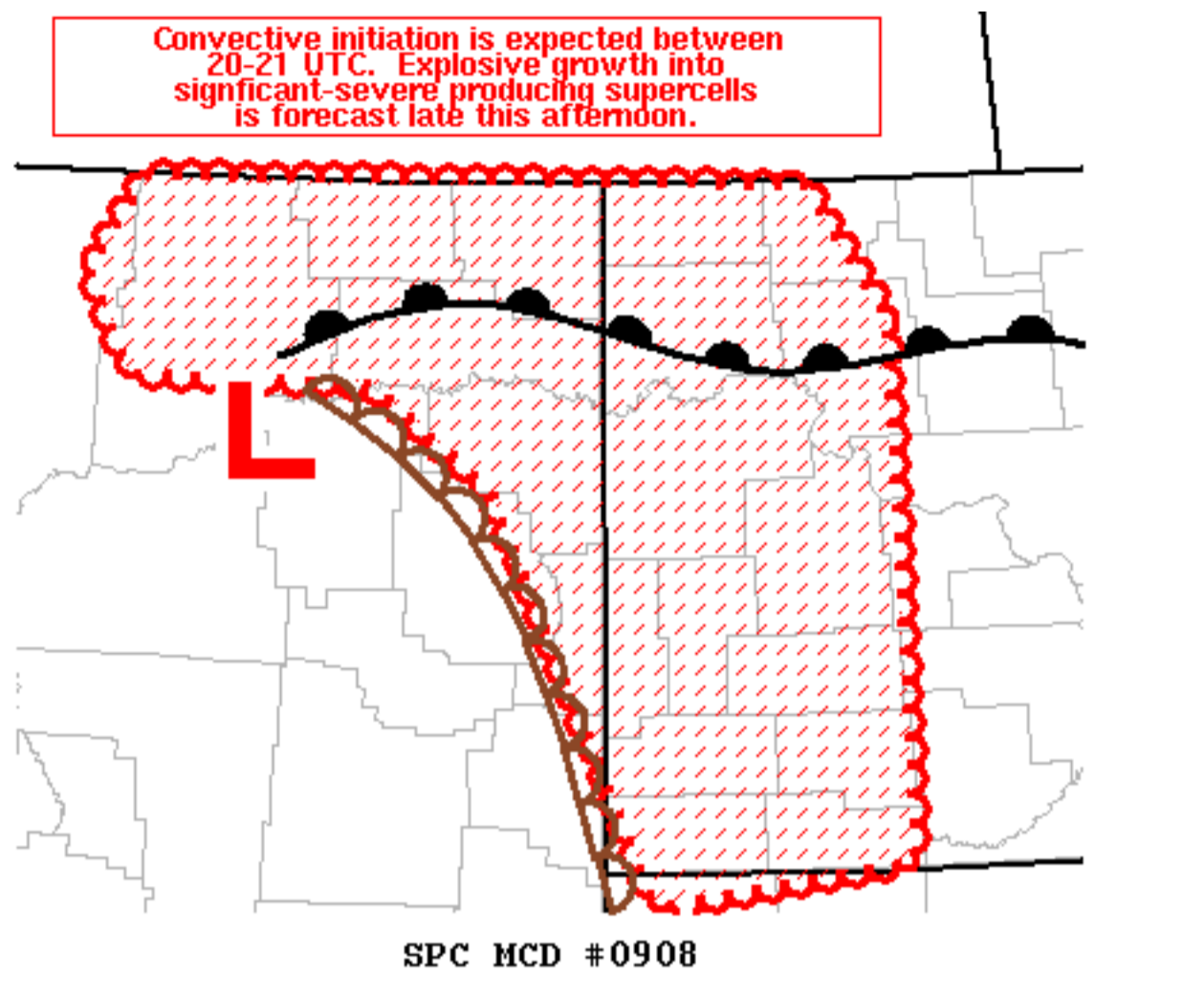
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## Mesoscale Discussion 908

[< Previous MD](#) [Next MD >](#)

Convective initiation is expected between 20-21 UTC. Explosive growth into significant-severe producing supercells is forecast late this afternoon.



Mesoscale Discussion 0908

NWS Storm Prediction Center Norman OK

0256 PM CDT Thu Jun 10 2021

Areas affected...far northeast MT...western ND

Concerning...Severe potential...Tornado Watch likely

Valid 101956Z - 102130Z

Probability of Watch Issuance...95 percent

SUMMARY...Convective initiation is expected between 20-21 UTC along the dryline over eastern MN near the ND border. Explosive growth into significant-severe producing supercells is forecast late this afternoon into the early evening.

DISCUSSION...Visible-satellite imagery shows a swelling band of agitated cumulus along the dryline over far eastern MT near Sydney. Temperatures immediately east of the dryline have warmed into the lower 80s with a deepening boundary layer featuring low to mid 60s deg F dewpoints. The 18 UTC Glasgow, MT raob showed a very steep 700-500 mb lapse rate (8.6 deg C/km). Modifying the raob for 19 UTC surface conditions east of the dryline near the ND/MT border (i.e., Sydney, MT) yielded 3300 J/kg MLCAPE with very little convective inhibition remaining. As the cap erodes, expecting explosive updraft growth quickly evolving into a few discrete supercells. Giant hail (3+ inches in diameter) is possible with the stronger storms as the organize and move northeast into a less deeply mixed and more moisture rich environment near the warm front. Supercell tornadoes will be possible in vicinity of the warm front, in addition to the hail/severe gust hazard. Other isolated storms are forecast to eventually develop southward along the dryline into parts of southwest ND and northwest SD. Large to giant hail will be the primary hazard with these storms before additional thunderstorm development into a severe squall line evolves later this evening.

..Smith/Guyer.. 06/10/2021

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

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