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Mesoscale Discussion 923

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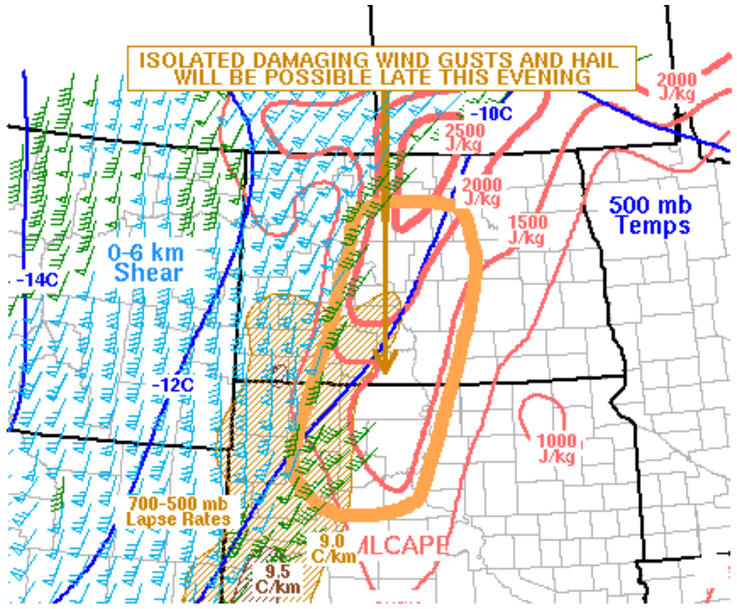

SPC MCD #0923

Mesoscale Discussion 0923
NWS Storm Prediction Center Norman OK
1027 PM CDT Tue Jun 16 2020

Areas affected...Central North Dakota...Northwest and Northcentral South Dakota

Concerning...Severe potential...Watch unlikely

Valid 170327Z - 170600Z

Probability of Watch Issuance...20 percent

SUMMARY...A threat for wind damage and isolated large hail will be possible late this evening from northwest and north-central South Dakota northward across central North Dakota. The threat is expected to remain isolated. For this reason, weather watch issuance appears unlikely.

DISCUSSION...At the surface, a cold front continues to move eastward across the western Dakotas. Surface dewpoints ahead of the front generally range from the upper 50s F in central South Dakota to the lower to mid 60s F in south-central North Dakota. Moderate instability is still present along the moist corridor. Thunderstorms have been expanding in coverage along the western edge of moderate instability from near Rapid City northward to southwest of Bismarck. 63 kt and 65 kt wind gusts were reported out of the storm just to the north-northeast of Faith, South Dakota. This convection will continue to move north-northeastward over the next few hours and will encounter greater buoyancy but stronger capping. This buoyancy combined with moderate deep-layer shear, evident on regional WSR-88D VWPs, will support an isolated wind damage threat for another hour or two. The more intense cores may also produce hail. But as the capping inversion increases, the threat should become marginal.

..Broyles/Grams.. 06/17/2020

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

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