

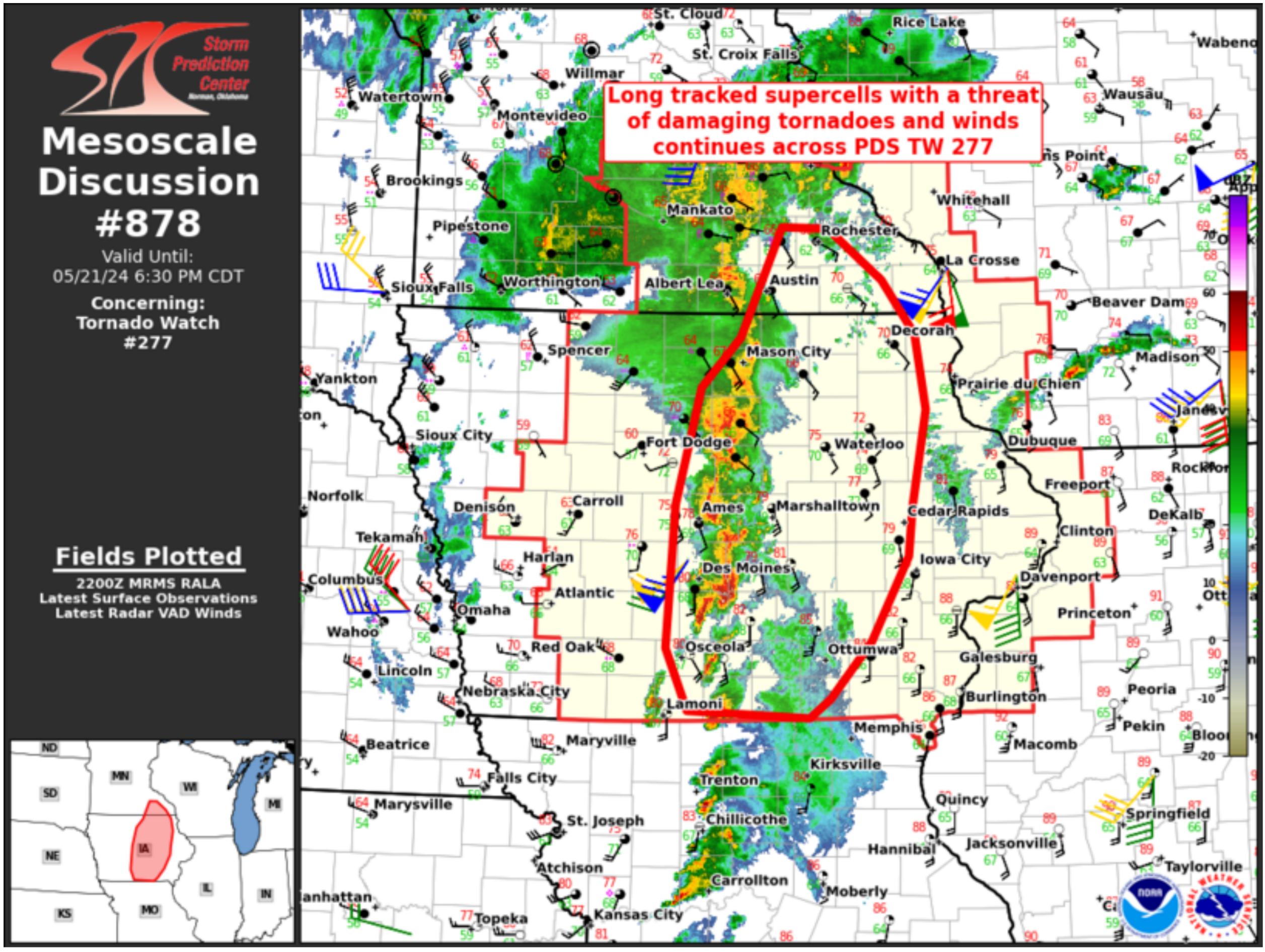
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Mesoscale Discussion 878

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Mesoscale Discussion 0878
 NWS Storm Prediction Center Norman OK
 0503 PM CDT Tue May 21 2024

Areas affected...Central Iowa and far southeastern Minnesota

Concerning...Tornado Watch 277...

Valid 212203Z - 212330Z

The severe weather threat for Tornado Watch 277 continues.

SUMMARY...Long tracked supercells within a line extending north to south across central IA will continue to move eastward into an even more favorable tornadic environment.

DISCUSSION...Ongoing tornadic supercells continue from Cambridge, to just east of Des Moines. The latest DMX VAD profile data indicates 0-1 km SRH around 100 m2/s2. However, just upstream the DVN VAD shows SRH is double to triple that. In addition, a corridor of higher boundary layer moisture and backed surface flow east of the current line of deep moist convection from around Olmsted County south-southeastward to Linn County suggests localized SRH should be maximized there, juxtaposed with maximum buoyancy. Therefore, the potential for long tracked, damaging tornadoes appears most likely over the next 1-2 hours as far north as extreme southeastern MN.

..Barnes.. 05/21/2024

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

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