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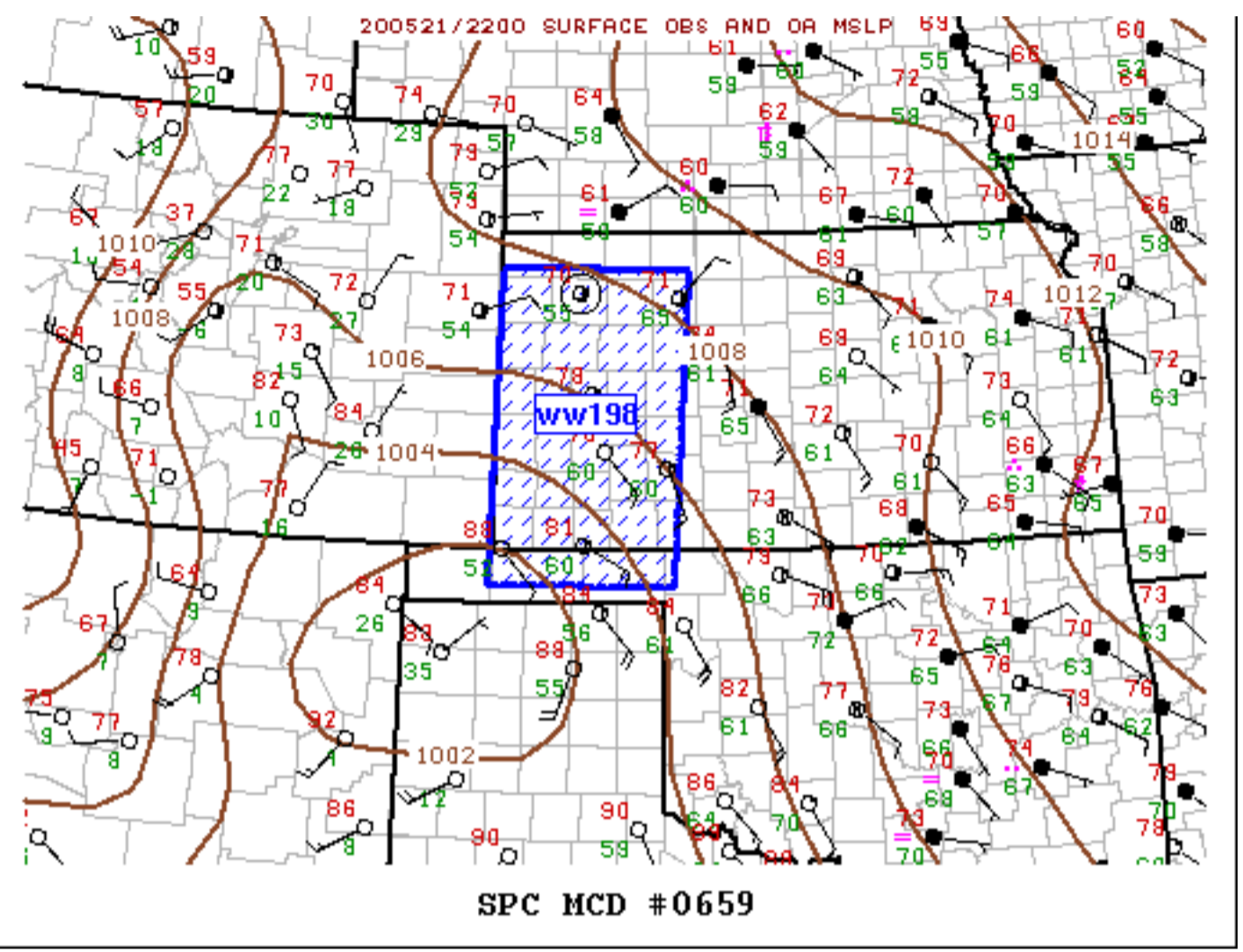
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Mesoscale Discussion 659

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SPC MCD #0659

Mesoscale Discussion 0659
 NWS Storm Prediction Center Norman OK
 0609 PM CDT Thu May 21 2020

Areas affected...Western Kansas...Eastern Oklahoma Panhandle

Concerning...Severe Thunderstorm Watch 198...

Valid 212309Z - 220045Z

The severe weather threat for Severe Thunderstorm Watch 198 continues.

SUMMARY...Severe threat should increase this evening, especially across southwestern Kansas.

DISCUSSION...Well-defined short-wave trough is evident within water-vapor imagery over northern NM/southern CO. This feature appears to be handled well by short-range model guidance. In response to this short wave, lee cyclone has sharpened over southeast CO which has allowed strong convection to form a bit farther west than earlier anticipated. With LLJ expected to increase over the next few hours across the High Plains into southwestern KS, ongoing thunderstorms should continue to expand in areal coverage and begin to develop/propagate southeast along instability corridor. Very large hail (>2") is likely ongoing with the supercell over Hamilton County KS, and hail remains the primary threat, especially with supercells.

..Darrow.. 05/21/2020

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

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