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City, St

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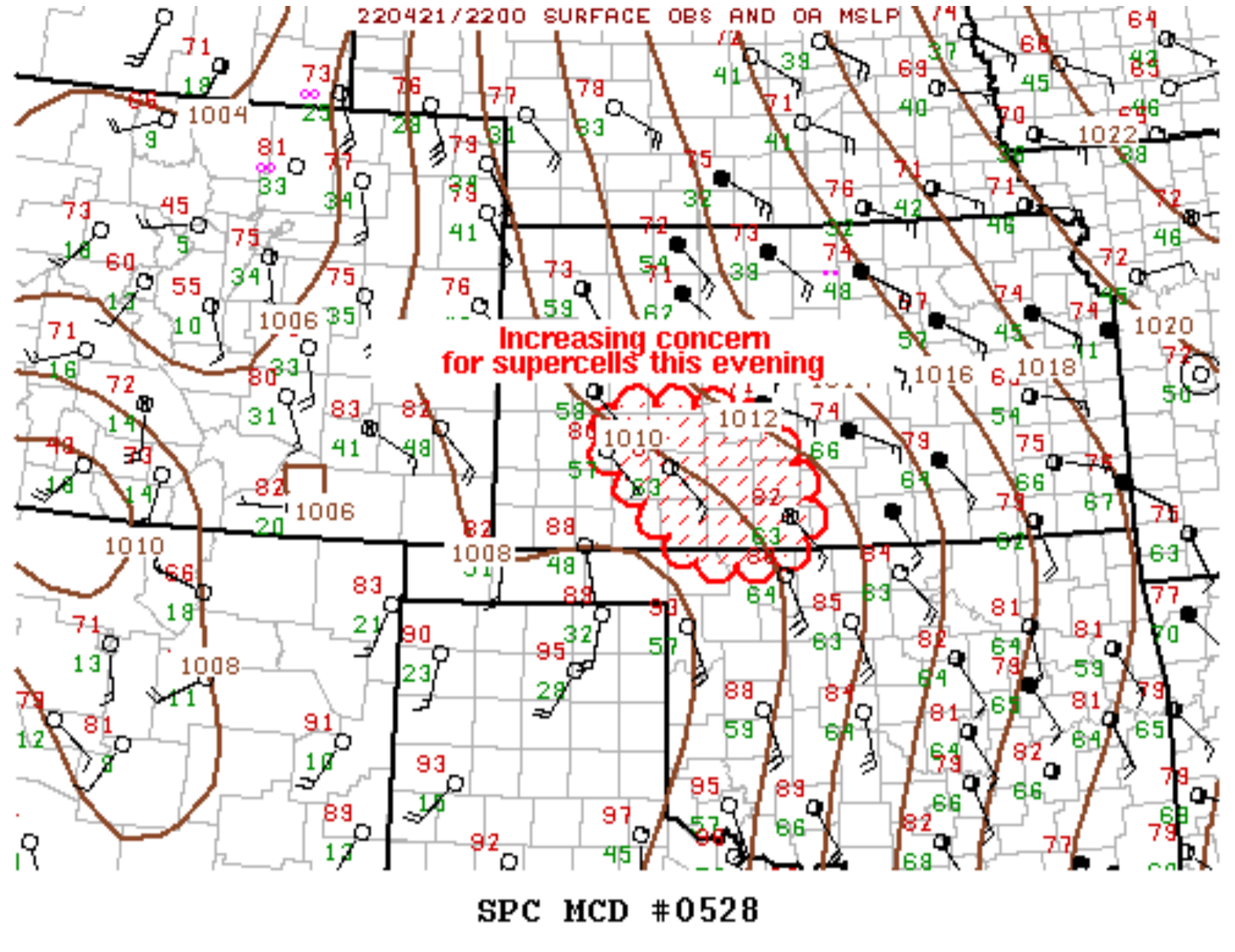
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## Mesoscale Discussion 528

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Mesoscale Discussion 0528  
 NWS Storm Prediction Center Norman OK  
 0533 PM CDT Thu Apr 21 2022

Areas affected...Southwest KS into extreme northwest OK

Concerning...Severe potential...Watch possible

Valid 212233Z - 220030Z

Probability of Watch Issuance...60 percent

SUMMARY...Tornado watch is being considered for portions of southwest Kansas.

DISCUSSION...Pressure falls in the lee of the Rockies will continue this evening such that low-level moisture should gradually advance north-northwest across the southern/central High Plains. Strengthening LLJ will aid this process as it focuses across western OK/southwest KS over the next few hours. Intense surface heating has contributed to a near-dry adiabatic lapse rate in the lowest 3km across the TX Panhandle into northwest OK and extreme southwest KS. As a result, boundary-layer cu are now developing along the eastern edge of this steep lapse-rate plume, extending into southwest KS (DDC region) where low-level convergence is focused. Satellite imagery suggests agitated cu field over eastern portions of DDC CWA may be close to producing showers. Current trends suggest thunderstorms may evolve over this region, and given the shear/moisture supercells are expected. Will continue to monitor this region for a tornado watch.

..Darrow/Thompson.. 04/21/2022

...Please see [www.spc.noaa.gov](http://www.spc.noaa.gov) for graphic product...

ATTN...WFO...ICT...OUN...DDC...

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