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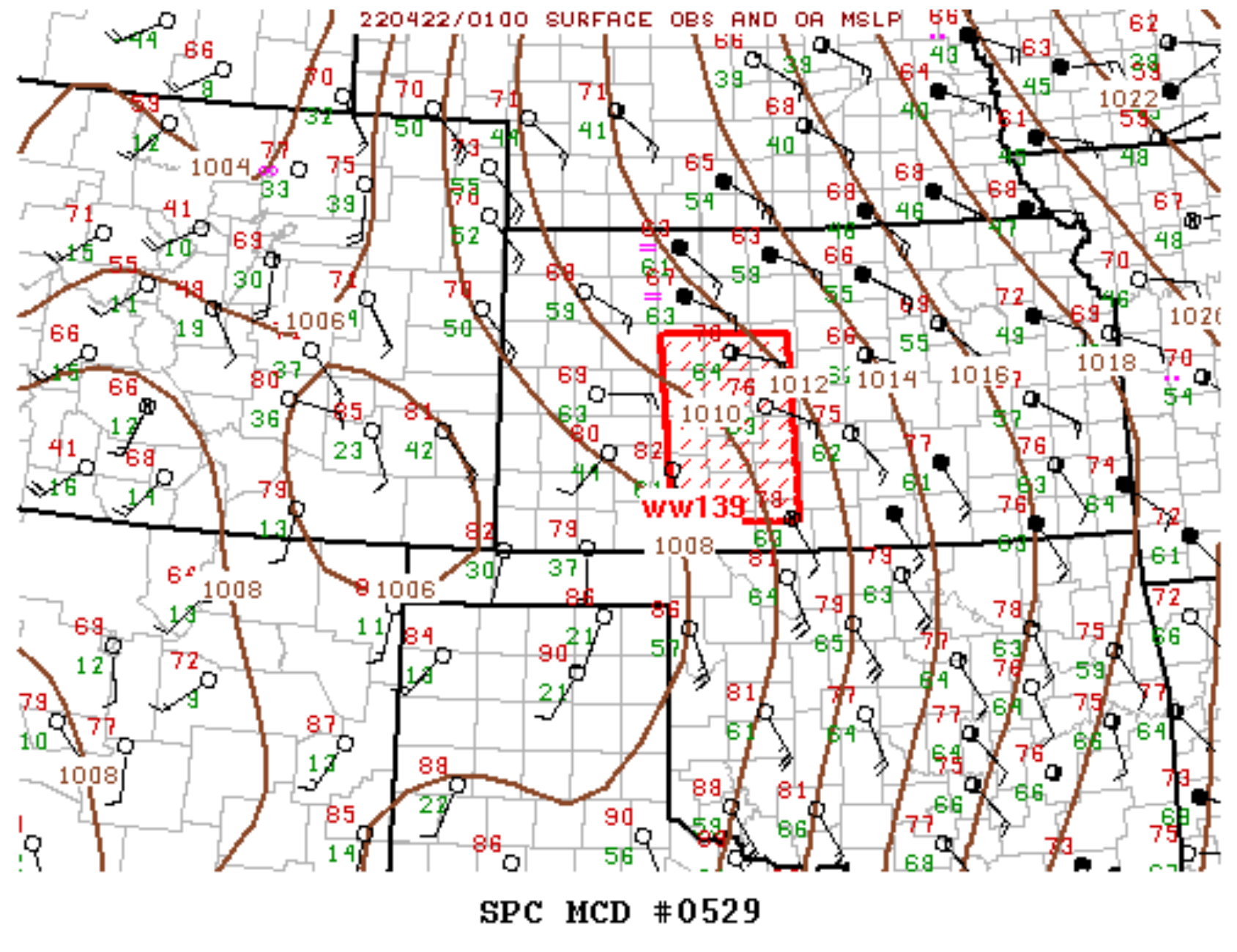
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Mesoscale Discussion 529

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Mesoscale Discussion 0529
 NWS Storm Prediction Center Norman OK
 0843 PM CDT Thu Apr 21 2022

Areas affected...Southwestern Kansas

Concerning...Tornado Watch 139...

Valid 220143Z - 220345Z

The severe weather threat for Tornado Watch 139 continues.

SUMMARY...Severe threat continues across ww139.

DISCUSSION...LLJ has strengthened (40kt) and is now focused across the High Plains from western OK into southwest KS. Supercells that developed within the better low-level convergence over this region continue to propagate slowly northeast. Latest radar data suggests a few longer-lived supercells with most of these producing large hail. 00z sounding from DDC this evening sampled the inflow environment very well with SBCAPE in excess of 2500 J/kg, very steep lapse rates through 4km, and ample shear for sustaining deep rotating updrafts. As surface dew points have now crept into the lower 60s there remains some potential for a tornado or two, especially along/near the northward-advancing warm front, prior to the storms weakening with increasing convective inhibition.

..Darrow.. 04/22/2022

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

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

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