



Local forecast by "City, St" or "ZIP"

City, St



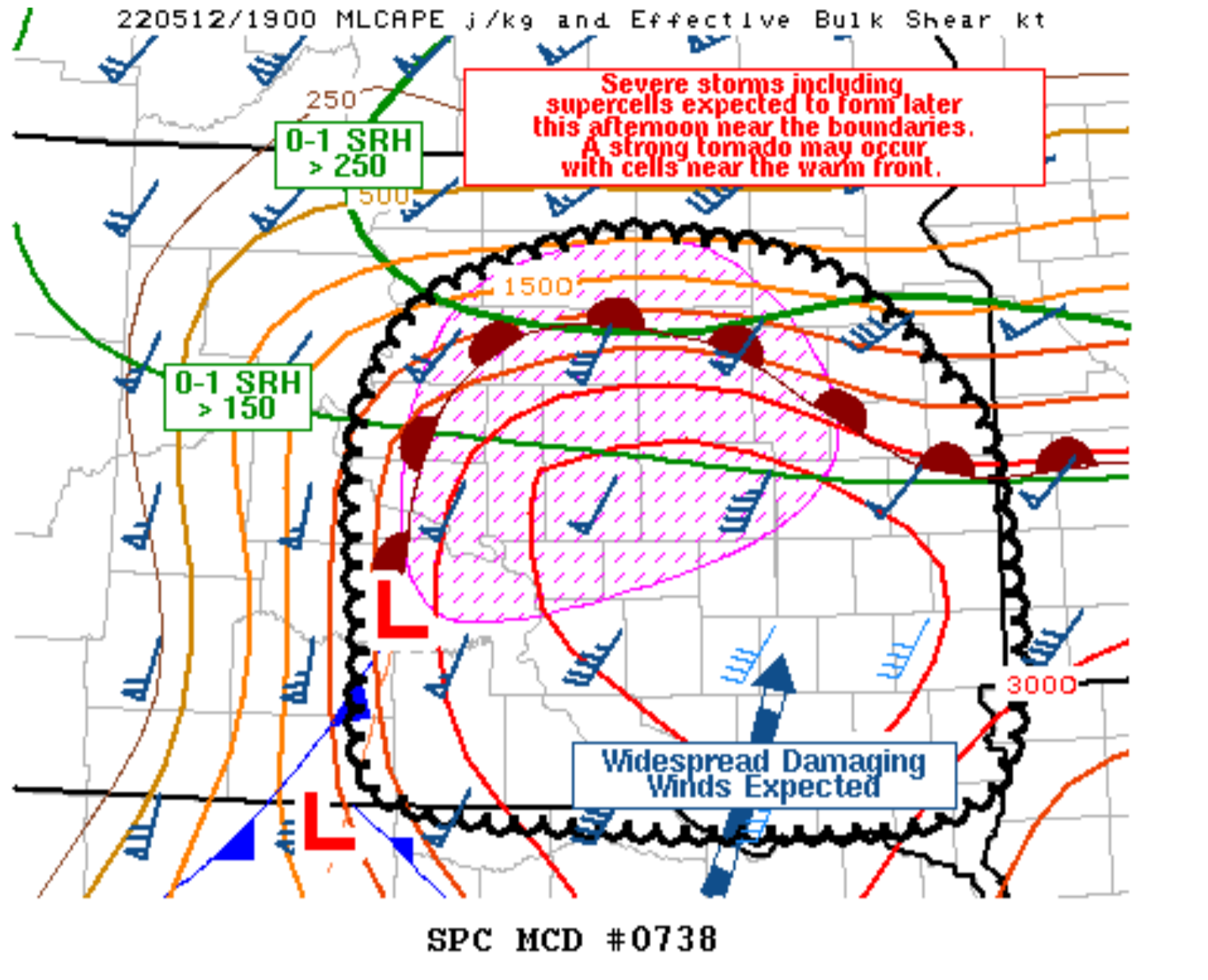
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## Mesoscale Discussion 738

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Mesoscale Discussion 0738  
 NWS Storm Prediction Center Norman OK  
 0247 PM CDT Thu May 12 2022

Areas affected...much of eastern South Dakota

Concerning...Severe potential...Watch likely

Valid 121947Z - 122215Z

Probability of Watch Issuance...95 percent

SUMMARY...Severe storms will develop along the fronts in South Dakota later today, and move into eastern South Dakota from the southwest. Widespread damaging winds and several tornadoes are anticipated.

DISCUSSION...Surface analysis shows a cold front approaching central SD and extending into the NE Panhandle. Meanwhile, a warm front extends from near Pierre to south of Aberdeen to Brookings. Visible imagery shows substantial towering CU along and south of this area where temperatures are rising and MLCAPE is over 3000 J/kg. Midlevel lapse rates are very steep, and suggest explosive supercell development will be possible from central into northeast SD. Low-level shear favors tornadoes near the warm front, and a strong tornado will be possible.

To the south, a line of severe storms is quickly taking shape over central NE, and will rapidly move north/northeast across the MO River after 21Z. Significant wind damage will be possible into southeast SD through evening as storms expand into the most unstable air.

..Jewell/Guyer.. 05/12/2022

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

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