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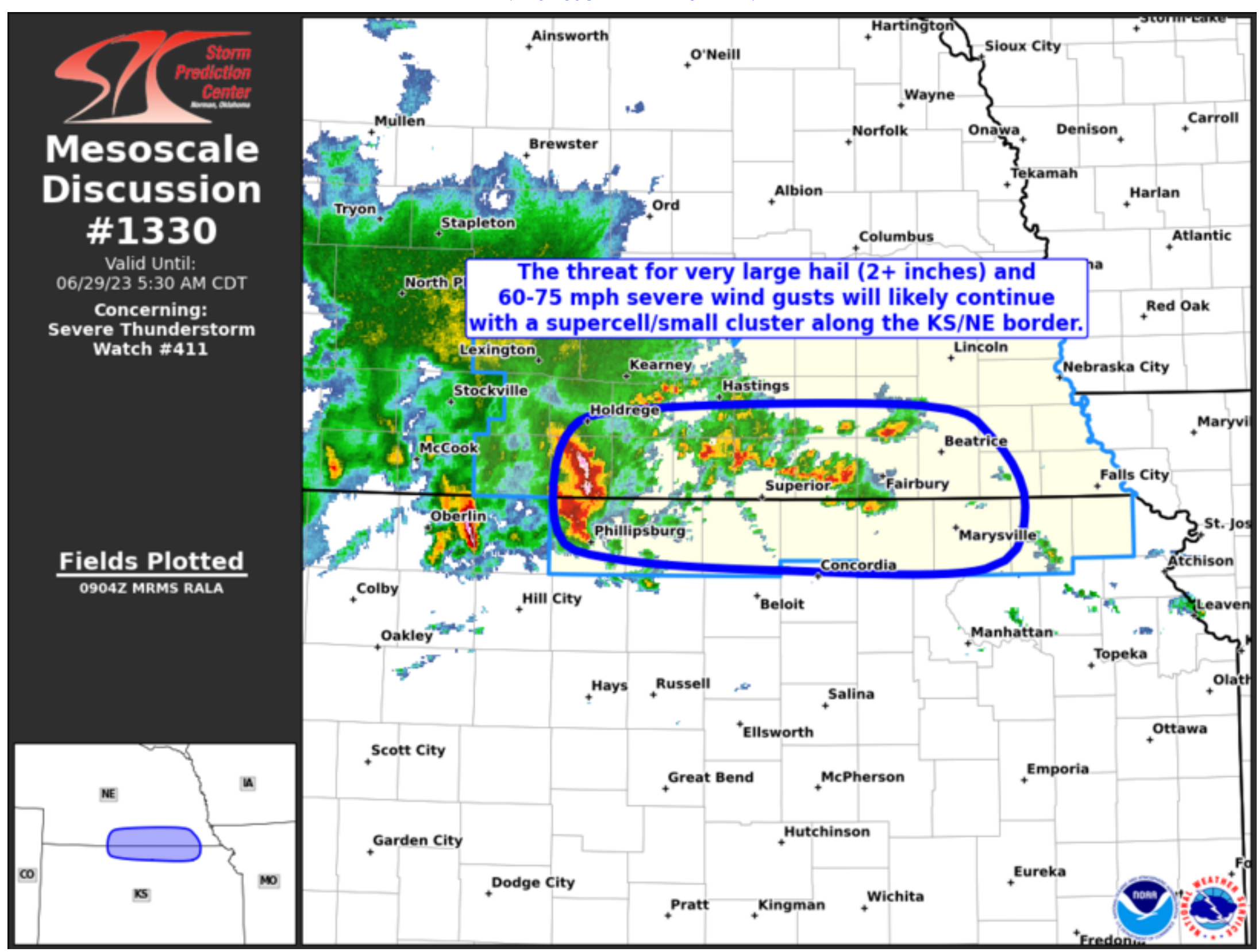
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## Mesoscale Discussion 1330

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**Mesoscale Discussion #1330**  
 Valid Until: 06/29/23 5:30 AM CDT  
 Concerning: Severe Thunderstorm Watch #411

**Fields Plotted**  
 0904Z MRMS RALA



Mesoscale Discussion 1330  
 NWS Storm Prediction Center Norman OK  
 0406 AM CDT Thu Jun 29 2023

Areas affected...Portions of southern NE and northern KS

Concerning...Severe Thunderstorm Watch 411...

Valid 290906Z - 291030Z

The severe weather threat for Severe Thunderstorm Watch 411 continues.

**SUMMARY...**The threat for very large hail (2+ inches) and 60-75 mph severe wind gusts will likely continue with a supercell/small cluster moving eastward along the Nebraska/Kansas border.

**DISCUSSION...**A long-lived supercell along the NE/KS border has produced very large hail up to 3 inches in diameter and significant severe/damaging winds across far southern NE over the past 1-2 hours. The airmass downstream of this supercell will remain very favorable for continued convective organization/intensity, as strong MUCAPE overlaps enhanced deep-layer shear. A 50+ kt south-southwesterly low-level jet and related warm/moist advection feeding into this convection will also aid the maintenance of intense updrafts. Very large hail (2+ inches) will remain a concern in the short term with this supercell. Recent velocity data from KUEX also shows strong inbound velocities along the NE/KS border. Ample DCAPE and steep lapse rates aloft should allow for a continued threat of severe/damaging winds around 60-75 mph as these thunderstorms spread eastward across south-central NE and north-central KS over the next couple of hours. Additional thunderstorms have developed farther east of this supercell in the strong low-level warm advection regime. This activity may also pose a threat for large hail if it strengthens further and acquires supercell characteristics.

..Gleason.. 06/29/2023

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

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