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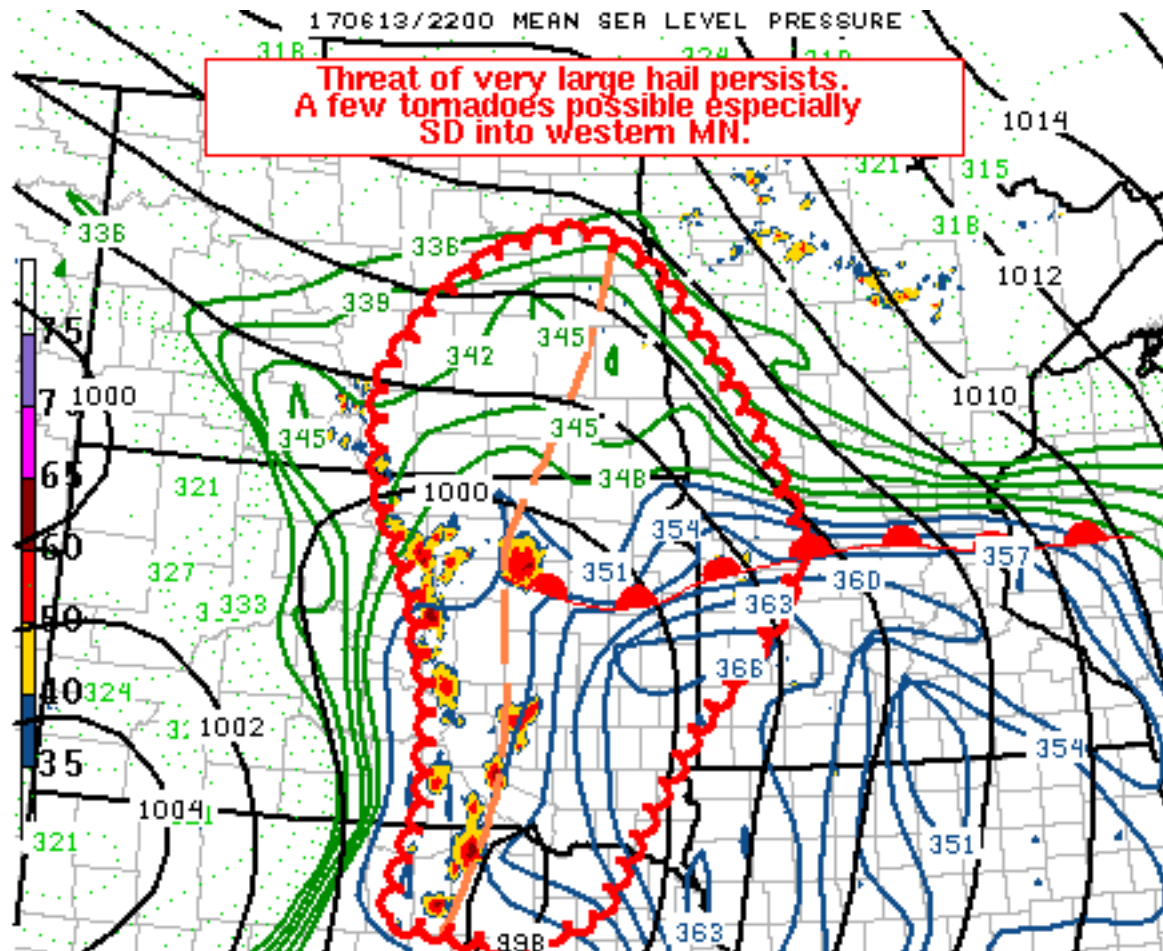
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Mesoscale Discussion 1017

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SPC MCD #1017

Mesoscale Discussion 1017

NWS Storm Prediction Center Norman OK

0543 PM CDT Tue Jun 13 2017

Areas affected...Northeast Nebraska...eastern South Dakota...western Minnesota...eastern North Dakota

Concerning...Tornado Watch [323](#)...

Valid 132243Z - 140045Z

The severe weather threat for Tornado Watch 323 continues.

SUMMARY...A threat of very large hail and a few tornadoes persists across the watch area. Severe storms are expected to eventually develop or spread into surrounding areas to the north and east this evening.

DISCUSSION...Surface observations, visible satellite imagery and radar show a warm front extending from Spink county SD eastward across central MN. Numerous supercells extend southward along the

surface trough, with strongest storm near the low in Spink county which is also near the warm front. Radar continues to show very large hail in most of these cells, and brief tornadoes will also remain possible given sufficient low-level shear and a moist air mass.

To the east, an isolated cell was noted along the warm front across west central MN, where temperatures were approaching 90 F. A brief tornado is not out of the question with this activity, if it can remain rooted in the higher theta-e air south of the front. Otherwise, hail is possible as it continues to lift northward.

Farther north into eastern ND, surface temperatures are largely in the low 70s F, but some gradual warming is expected. However, the boundary layer is expected to remain cool with rather poor 0-3 km lapse rates. Thus, severe thunderstorms capable of hail appear the most likely threat there, with new activity that forms due to warm advection, and, as cells west of the main surface trough continue north.

..Jewell.. 06/13/2017

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

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