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Mesoscale Discussion 1226

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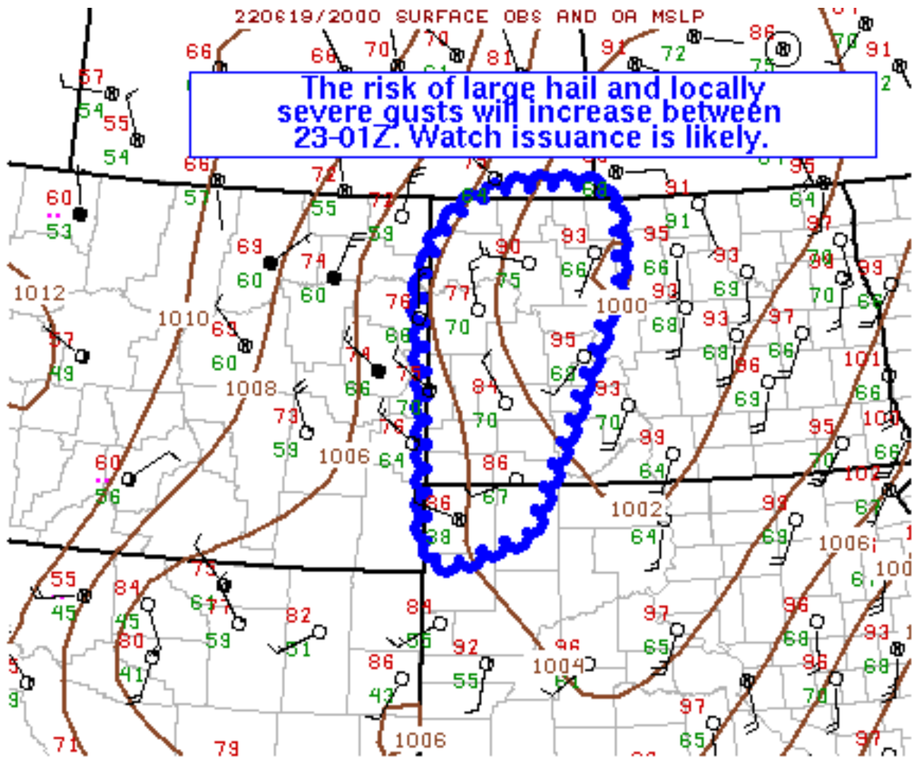

SPC MCD #1226

Mesoscale Discussion 1226
NWS Storm Prediction Center Norman OK
0349 PM CDT Sun Jun 19 2022

Areas affected...Western ND and far northwest SD

Concerning...Severe potential...Severe Thunderstorm Watch likely

Valid 192049Z - 192315Z

Probability of Watch Issuance...80 percent

SUMMARY...The risk of large hail and locally severe gusts will increase across western ND and far northwest SD between 23-01Z. A watch will likely be needed at some point downstream of Severe Thunderstorm Watch 391.

DISCUSSION...In response to increasing large-scale ascent at the nose of a midlevel jet streak impinging on the northern High Plains (per water vapor imagery), surface observations depict a consolidating surface low near Mountrail County, ND. While RAP forecast soundings show lingering convective inhibition in the vicinity of the surface low, continued diurnal heating of the sheltered boundary-layer air (upper 60s/lower 70s dewpoints) could support isolated convective initiation over northwest ND during the next few hours. Northerly surface winds beneath strong/deep south-southwesterly flow will result in an elongated hodograph supportive of supercell structures and an attendant risk of large hail and severe gusts. However, large uncertainty remains owing to the lingering convective inhibition and cloud coverage.

Later into the evening hours, current thinking is that supercells and bowing segments capable of large hail and damaging winds will spread northeastward from parts of eastern MT into western ND and far northwest SD. Upper 60s/lower 70s dewpoints and continued diurnal destabilization should support the maintenance of this activity given 40-50 kt of effective shear. Ultimately, a watch will eventually be needed for parts of the area (downstream of Severe Thunderstorm Watch 391), though timing remains unclear owing to lingering uncertainty regarding convective evolution north of the surface low.

..Weinman/Grams.. 06/19/2022

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

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