



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

City, St



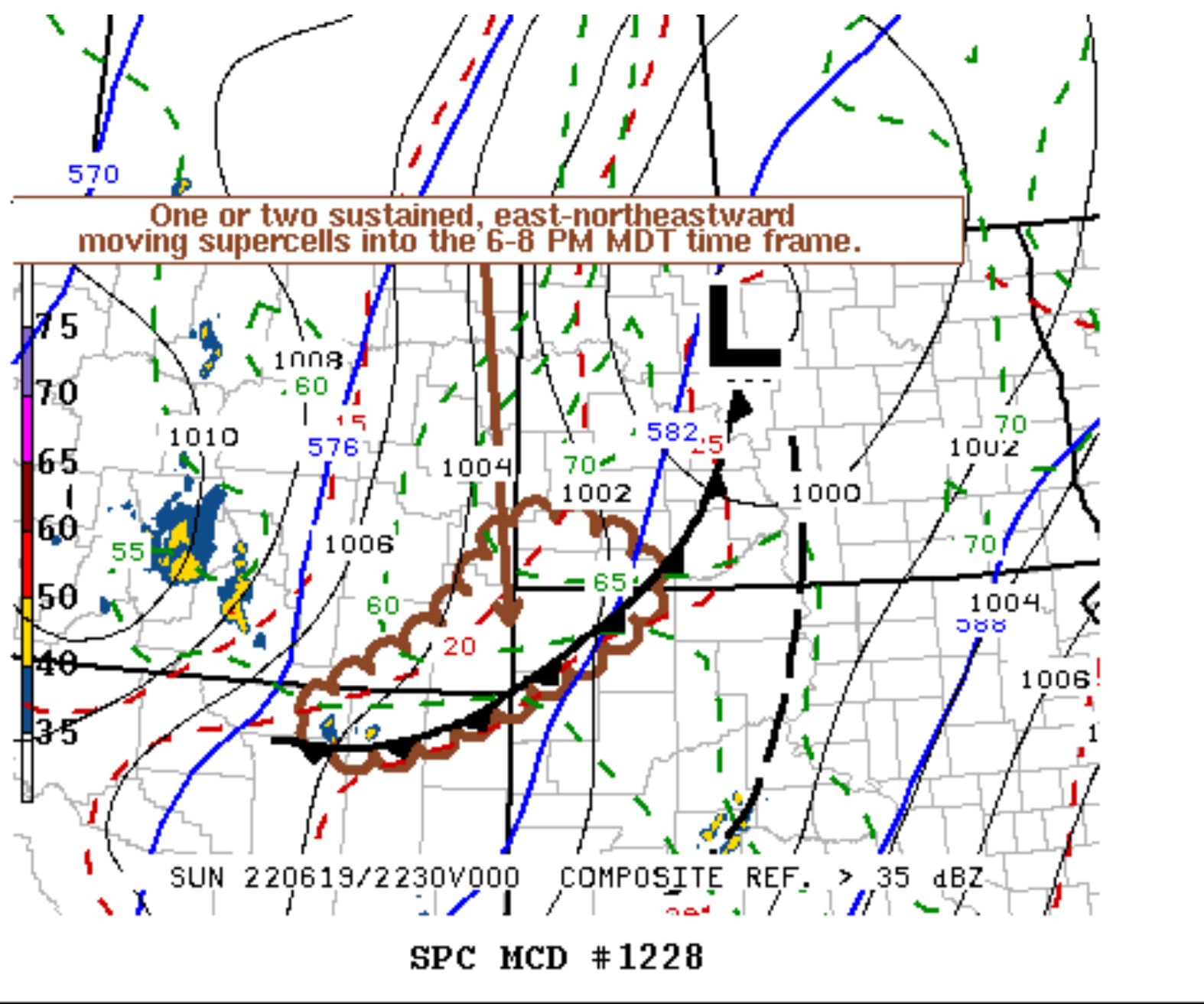
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Mesoscale Discussion 1228

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Mesoscale Discussion 1228
 NWS Storm Prediction Center Norman OK
 0552 PM CDT Sun Jun 19 2022

Areas affected...Parts of northeastern Wyoming...southeastern Montana into northwestern South Dakota and southwestern North Dakota

Concerning...Severe Thunderstorm Watch [391](#)...

Valid 192252Z - 200015Z

The severe weather threat for Severe Thunderstorm Watch 391 continues.

SUMMARY...One or two supercells appear likely to evolve, mainly in a narrow corridor roughly from north of Gillette WY toward the Dickinson ND area, posing primarily a risk for large hail and strong surface gusts into the 6-8 PM MDT time frame.

DISCUSSION...Thunderstorm development has recently initiated and is in the process of intensifying to the east of the Big Horn Mountains. This may have been aided by forcing associated with a mid-level speed maximum (50+ kt around 500 mb) within a belt of 30-40 kt deep-layer south-southwesterly mean flow emanating from the eastern Great Basin.

Stronger instability downstream of the convection, and low-level forcing for ascent, appear mostly focused in a narrow post-cold frontal corridor extending east-northeastward into southwestern North Dakota. Within this regime, it appears that 20-25+ kt north-northeasterly inflow of seasonably moist boundary-layer air (characterized by CAPE up to 2000 J/kg) may provide continuing support for vigorous thunderstorm development during the next few hours. This probably will include a sustained supercell or two posing a risk for large hail and strong wind gusts.

..Kerr.. 06/19/2022

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

ATTN...WFO...BIS...UNR...BYZ...

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