



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

City, St

Find us on Facebook
SPC on Facebook

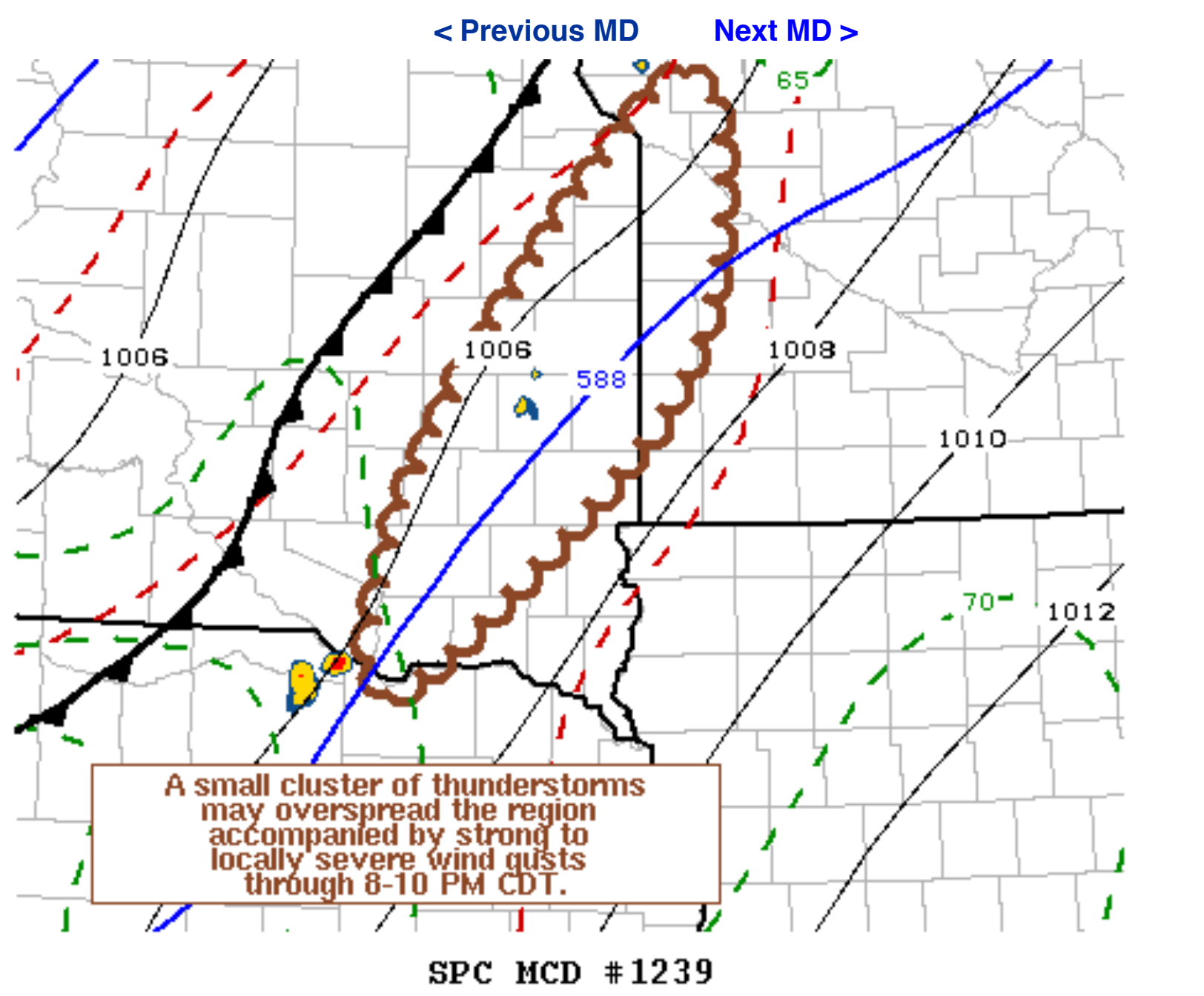
@NWSSPC

NCEP Quarterly Newsletter

- Home (Classic)
- SPC Products
 - All SPC Forecasts
 - Current Watches
 - Meso. Discussions
 - Conv. Outlooks
 - Tstm. Outlooks
 - Fire Wx Outlooks
- RSS Feeds
- E-Mail Alerts
- Weather Information
 - Storm Reports
 - Storm Reports Dev.
 - NWS Hazards Map
 - National RADAR
 - Product Archive
 - NOAA Weather Radio
- Research
 - Non-op. Products
 - Forecast Tools
 - Svr. Tstm. Events
 - SPC Publications
 - SPC-NSSL HWT
- Education & Outreach
 - About the SPC
 - SPC FAQ
 - About Tornadoes
 - About Derechos
 - Video Lecture Series
 - WCM Page
 - Enh. Fujita Page
 - Our History
 - Public Tours
- Misc.
 - Staff
- Contact Us
 - SPC Feedback



Mesoscale Discussion 1239



Mesoscale Discussion 1239
 NWS Storm Prediction Center Norman OK
 0559 PM CDT Mon Jun 20 2022

Areas affected...parts of northeastern Nebraska...southeastern South Dakota and adjacent southwestern Minnesota

Concerning...Severe potential...Watch unlikely

Valid 202259Z - 210100Z

Probability of Watch Issuance...20 percent

SUMMARY...Convection capable of producing strong to severe surface gusts may continue to develop and overspread the region through 8-10 PM CDT. A new severe thunderstorm watch is not currently anticipated, but additional counties across southeastern South Dakota and southwestern Minnesota may be added to WWs 394 and 395.

DISCUSSION...A small, but persistent area of thunderstorms spreading to the west/northwest of Yankton SD may have initiated in response to forcing associated with lower/mid tropospheric warm advection, within a strongly heated and deeply mixed boundary layer. This environment extends in a narrowing pre-cold frontal corridor northeast of the Missouri River into west central Minnesota, and is becoming a focus for increasing convective development as mid-level inhibition weakens in response to daytime heating.

Upper 60s F dew points appear to be contributing to a corridor of moderate CAPE in excess of 2000 J/kg downstream of the evolving cluster, which may maintain thunderstorm development into the 01-03Z time frame. Although stronger mid/upper flow and deep-layer shear are generally confined to the post-frontal regime, the more favorable thermodynamic regime is generally aligned with a 30-35 kt southerly 850 mb jet. This is forecast to strengthen into early evening. As it does, substantive sub-cloud evaporative cooling and downward mixing of momentum may contribute to increasing potential for strong to locally severe surface gusts.

..Kerr/Edwards.. 06/20/2022

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

ATTN...WFO...MPX...FSD...OAX...ABR...

LAT...LON 43409800 44359742 45589609 44229617 42749796 43409800

[Top/All Mesoscale Discussions/Forecast Products/Home](#)

Weather Topics:
[Watches](#), [Mesoscale Discussions](#), [Outlooks](#), [Fire Weather](#), [All Products](#), [Contact Us](#)

National Weather Service • Since 1870