

Site  
Map

News Organization

Search for:



SPC



NCEP



All NOAA

Go

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

Go

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

Watch/Warning Map

National RADAR

Product Archive

NOAA Weather Radio

Research

Non-op. Products

Forecast Tools

Svr. Tstm. Events

SPC Publications

SPC-NSSL HWT

Education &amp; Outreach

About the SPC

SPC FAQ

About Tornadoes

About Derechos

Video Lecture Series

WCM Page

Enh. Fujita Page

Our History

Public Tours

Misc.

Staff

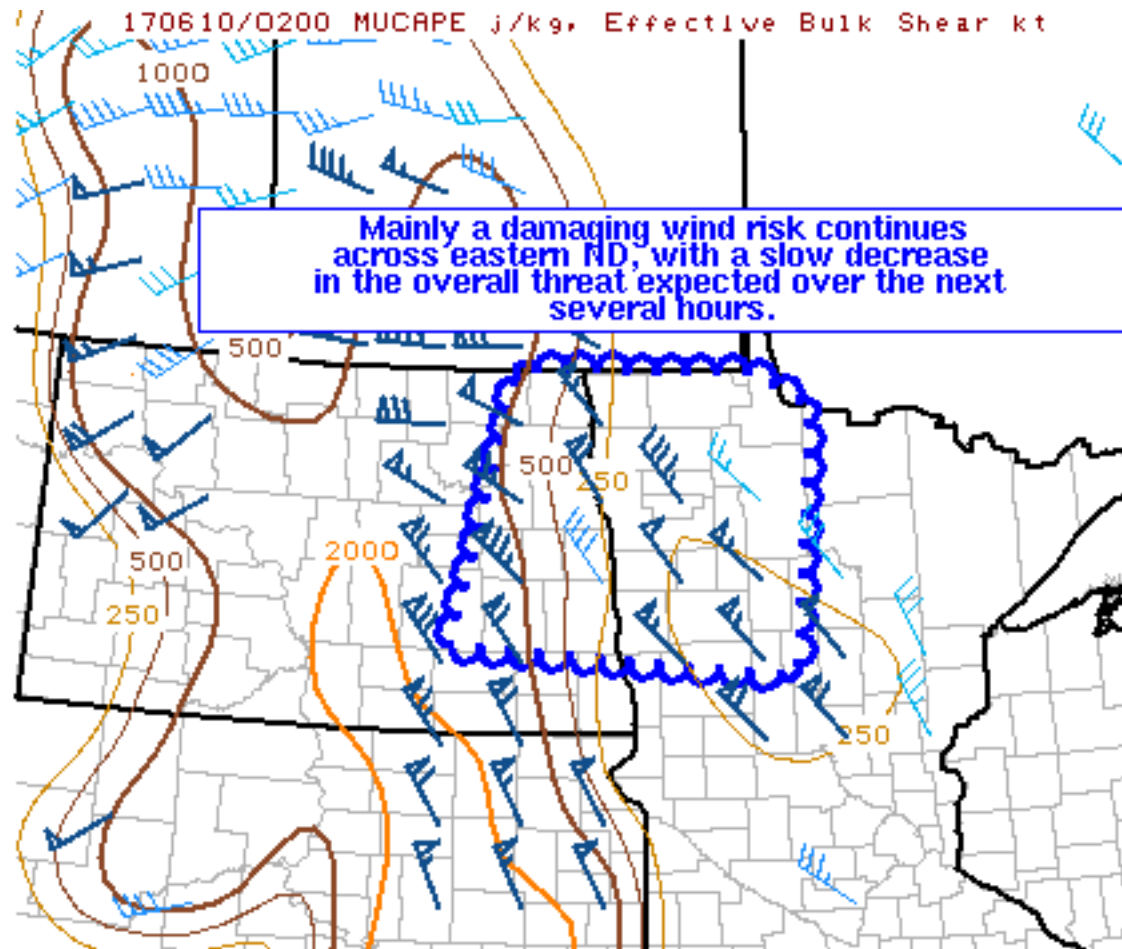
Contact Us

SPC Feedback

## Mesoscale Discussion 978

&lt; Previous MD

Next MD &gt;



SPC MCD #0978

Mesoscale Discussion 0978

NWS Storm Prediction Center Norman OK

0930 PM CDT Fri Jun 09 2017

Areas affected...Portions of eastern ND and northwestern MN

Concerning...Severe Thunderstorm Watch 309...

Valid 100230Z - 100330Z

The severe weather threat for Severe Thunderstorm Watch 309 continues.

SUMMARY...Severe risk appears to be transitioning to mainly damaging winds across eastern ND, and a slow decrease in the overall threat should occur as storms approach the Red River. While a local extension in area of the Severe Thunderstorm Watch could be needed for a small part of northwestern MN, downstream watch issuance into more of northern MN appears unlikely.

DISCUSSION...Radar trends across eastern ND over the past hour have

shown a transition to a mixed mode of supercells/short line segments, with a general decrease in reflectivities at 7 and 9 km CAPPis. Surface observations suggest this ongoing convection is beginning to impinge on a surface warm front located across eastern ND into northwestern MN. The airmass to the east of the warm front is much less unstable, and convection should undergo a slow weakening trend as it approaches the Red River over the next several hours. In the meantime, a strengthening 40-50 kt southerly low-level jet evidenced on the KABR VWP may help to maintain the intensity of the ongoing thunderstorms, and damaging winds would appear to be the main severe threat in the short term, although large hail may still occur with any embedded supercell. In addition, a tornado cannot be ruled out with any supercell that crosses the warm front in the short term.

Another small local extension in area may be needed within the next hour for a portion of northwestern MN (Norman/Clay counties and vicinity) based on current radar trends. But, given the increasingly marginal thermodynamic environment with eastward extent into northern MN, downstream watch issuance is unlikely.

..Gleason.. 06/10/2017

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

ATTN...WFO...DLH...FGF...BIS...

LAT...LON 46689883 49029807 49009508 48709431 46429461 46689883

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

Weather Topics:

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

---

NOAA / National Weather Service  
National Centers for Environmental Prediction  
Storm Prediction Center  
120 David L. Boren Blvd.  
Norman, OK 73072 U.S.A.  
[spc.feedback@noaa.gov](mailto:spc.feedback@noaa.gov)  
Page last modified: June 10, 2017

[Disclaimer](#)  
[Information Quality](#)  
[Help](#)  
[Glossary](#)

[Privacy Policy](#)  
[Freedom of Information Act \(FOIA\)](#)  
[About Us](#)  
[Career Opportunities](#)