

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

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

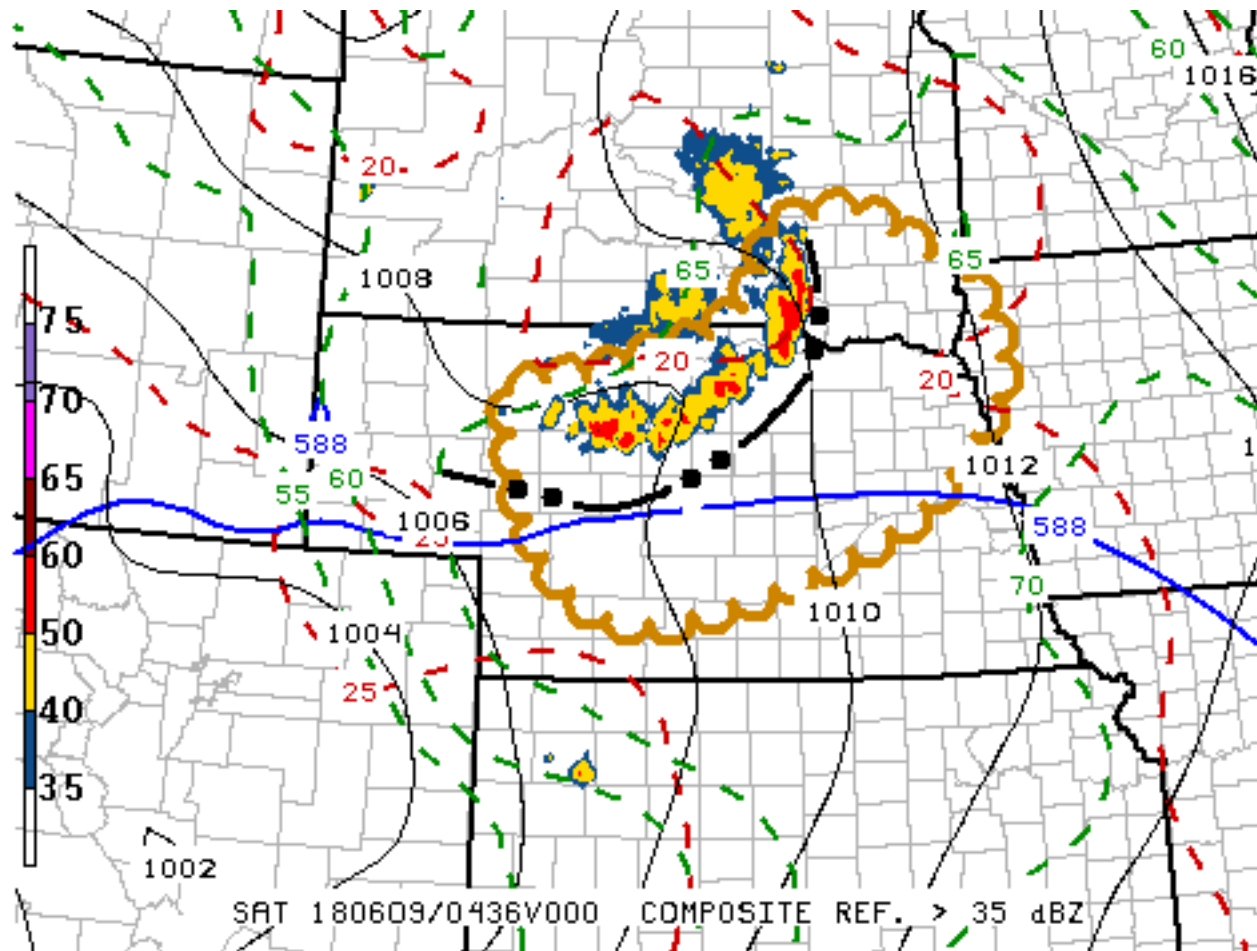
Contact Us

SPC Feedback

Mesoscale Discussion 677

< Previous MD

Next MD >



SPC MCD #0677

Mesoscale Discussion 0677

NWS Storm Prediction Center Norman OK

1151 PM CDT Fri Jun 08 2018

Areas affected...Southeastern South Dakota...central/eastern
Nebraska and adjacent western Iowa

Concerning...Severe Thunderstorm Watch [164](#)...

Valid 090451Z - 090615Z

The severe weather threat for Severe Thunderstorm Watch 164
continues.

SUMMARY...Strong wind gusts approaching severe limits remain
possible with thunderstorm activity overspreading the region,
particularly across northeastern Nebraska, into the 1-3 AM time
frame. A new watch is not currently anticipated, but trends will
continue to be monitored.

DISCUSSION...The strong and deep convectively generated surface cold

pool continues to advance southeastward through the Sand Hills of Nebraska and mid Missouri Valley. Forward motion has been up to 30-35 kt across the mid Missouri Valley, where shear/low-level convergence appears maximized in closer proximity to the mesoscale convective vortex, which has evolved on the northern flank of the convective system. Outflow has surged out ahead of stronger convection on the southern flank, across north central Nebraska.

Even on the northern flank, lightning and radar data suggest weakening trends to convection may be underway. Given the lack of a stronger nocturnal low-level jet, and the presence of substantive mid-level inhibition associated with elevated mixed layer air, these general trends may continue into the 06-08Z time frame. However, this may be slowest to proceed within a corridor near/southwest of the Missouri River, across northeastern Nebraska, roughly along the stronger mid-level thermal gradient/northeast periphery of stronger mid-level capping.

..Kerr.. 06/09/2018

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

ATTN...WFO...FSD...OAX...GID...LBF...

LAT...LON 43979771 43639705 43419652 42799611 42179627 41229746
 40480010 41000130 41860168 42500173 42540092 43019926
 43599881 43849864 43979771

[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
Page last modified: June 09, 2018

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

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