



Storm Prediction Center


[Site Map](#)
[News Organization](#)
Search for:
☒ SPC

☐ NCEP

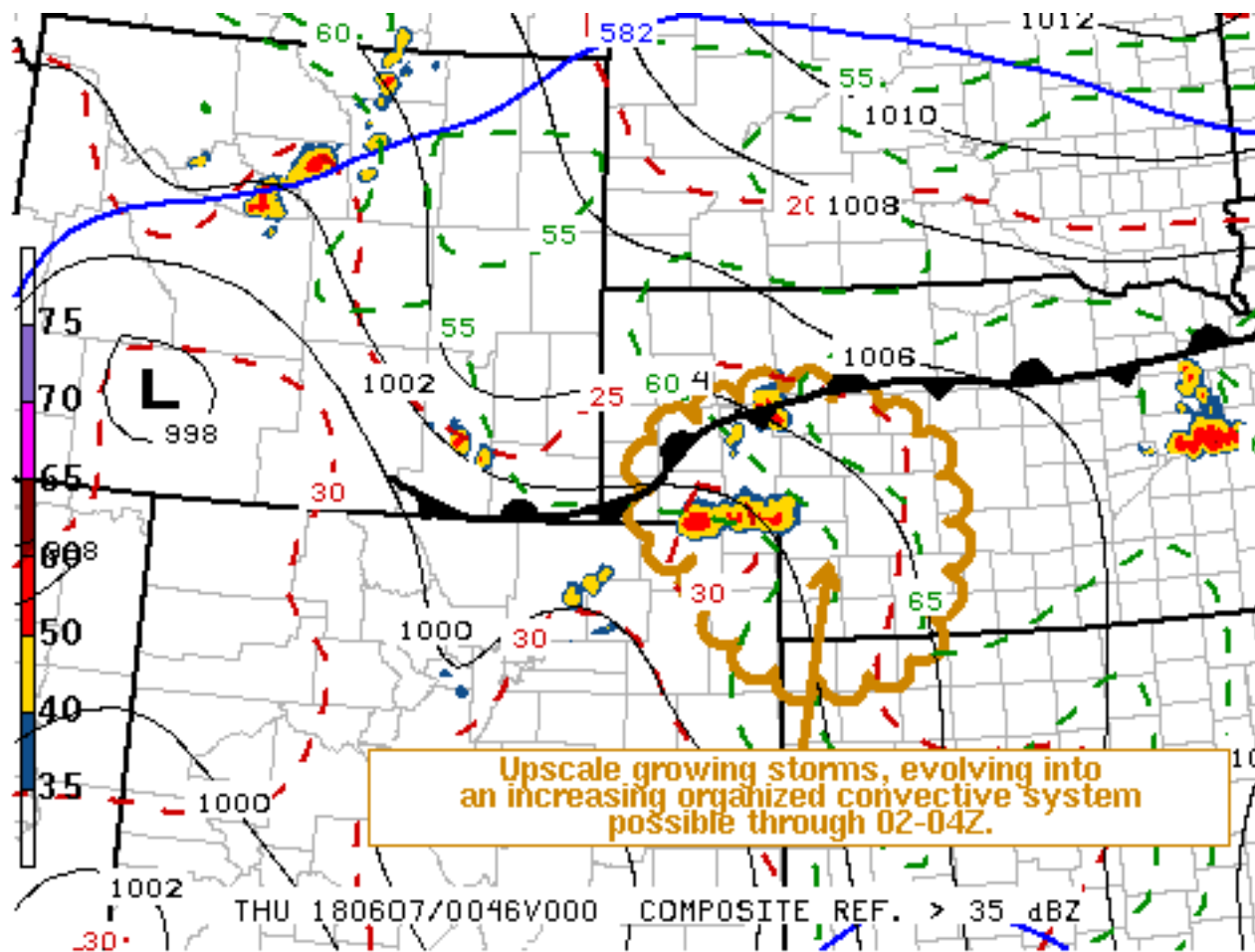
☐ All NOAA

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

[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 656

[< Previous MD](#)
[Next MD >](#)

SPC MCD #0656

Mesoscale Discussion 0656

NWS Storm Prediction Center Norman OK

0759 PM CDT Wed Jun 06 2018

Areas affected...Parts of southwest Nebraska...northeast Colorado...southwest Kansas

 Concerning...Severe Thunderstorm Watch [158](#)...

Valid 070059Z - 070300Z

The severe weather threat for Severe Thunderstorm Watch 158 continues.

SUMMARY...Risk for severe hail may continue another couple of hours, with increasing potential for strong wind gusts developing through late evening.

DISCUSSION...Perhaps the most prominent convective development is now centered near Sidney NE, in the form of an upscale growing cluster of storms. This is being supported by weak low/mid-level

warm advection, which appears generally focused in corridor east of the formerly tornadic supercell near Laramie, through areas of Nebraska to the north of Sidney/Ogalalla and North Platte. Models suggest that, as the boundary layer increasingly decouples through 02-04Z, the nose of a strengthening southerly low-level jet (30-40+ kt) will become focused across this region. This appears likely to promote further upscale convective growth in the presence of steep lapse rates and moderate to large CAPE, with the evolution of an increasing organized mesoscale convective system possible. Embedded within light southwesterly deep layer mean flow, east/southeastward progression will initially be slow, at least until sub-cloud evaporative cooling supports a sufficiently strong surface cold pool.

..Kerr.. 06/07/2018

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

ATTN...WFO...GID...LBF...GLD...BOU...CYS...

LAT...LON 41680344 42160209 41860050 41210006 40510013 39720067
 39640162 39780223 40010256 40650290 40900347 41680344

[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 07, 2018

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

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