

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

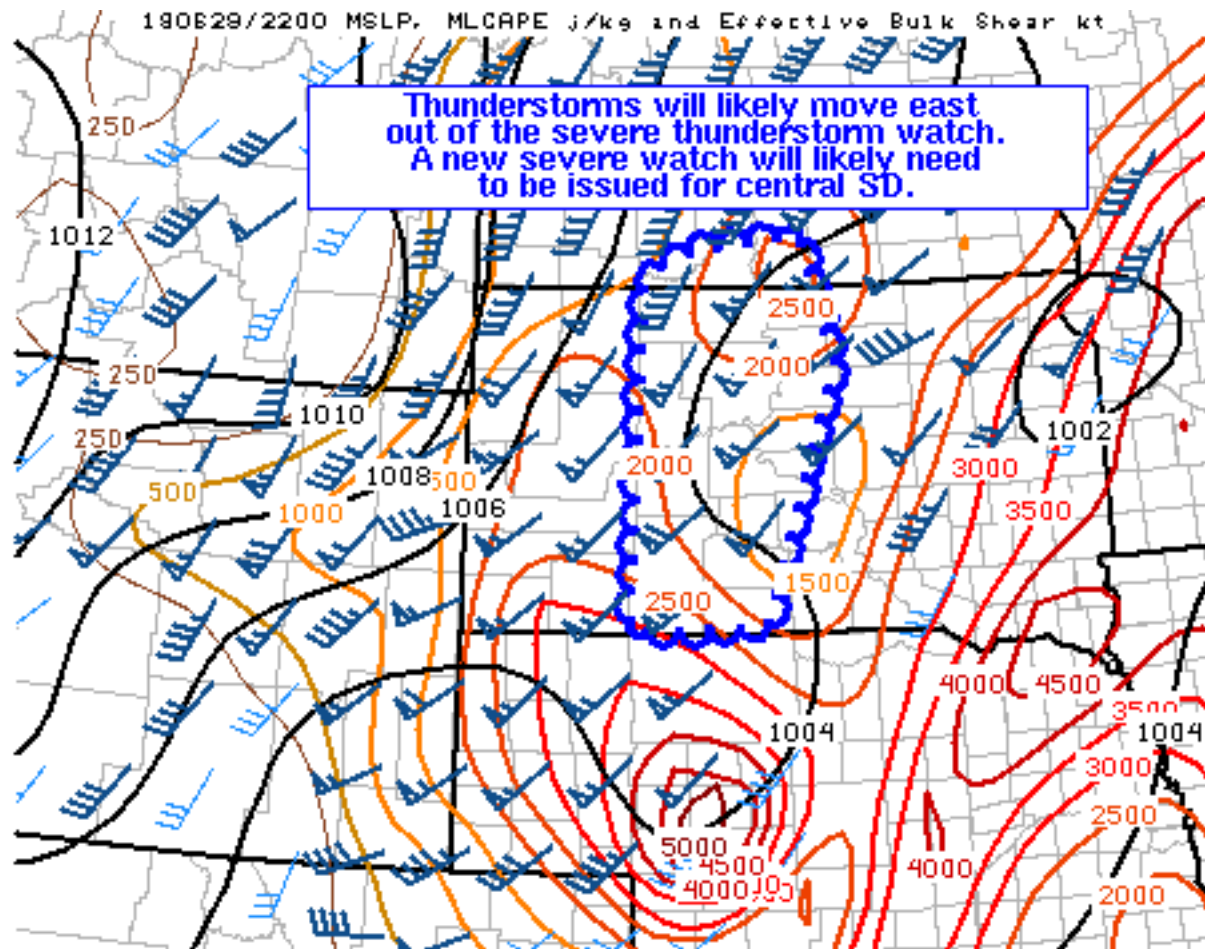
Misc.

Staff

Contact Us

SPC Feedback

Mesoscale Discussion 945

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

SPC MCD #0945

Mesoscale Discussion 0945

NWS Storm Prediction Center Norman OK

0557 PM CDT Fri Jun 29 2018

Areas affected...central SD...far south-central ND

Concerning...Severe potential...Severe Thunderstorm Watch likely

Valid 292257Z - 300000Z

Probability of Watch Issuance...80 percent

SUMMARY...Thunderstorms will likely move to the east beyond the existing eastern part of the severe thunderstorm watch 242. Upscale growth will probably occur this evening with severe gusts 60-75 mph gusts and large hail possible with the stronger thunderstorms.

DISCUSSION...Radar mosaic shows two hail-prolific supercells over western SD to the immediate north of the Black Hills. Water-vapor imagery shows a vigorous mid-level shortwave trough acquiring a negative tilt and pivoting eastward over southwest MT and western WY

towards the northern Great Plains. Warm temperatures (80s degrees F) east of the ongoing storm activity and a moist boundary layer (middle 60s dewpoints) will aid in supporting storm development farther east into central SD. Strong 0-6km shear (50kt) will strongly favor organized storm structures through the evening. It appears upscale growth into 1 or more small clusters will continue east beyond the eastern counties of severe thunderstorm watch 242 and approach the MO River late this evening. The initial hazards with the stronger storms are very large hail (potentially 2-3 inches in diameter) and 50-65 kt gusts in the RFDs of supercells. The risk for severe gusts will gradually become greater than the hail risk once storms transition into primarily a cold pool-aided convective complex.

..Smith/Edwards.. 06/29/2018

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

ATTN...WFO...ABR...BIS...UNR...

LAT...LON 45930194 46220159 46370001 45309963 43070048 43010206
45930194

[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 30, 2018

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

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