Storm Prediction Center



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

City, St Go Site Map

#1183

Valid Until:

06/20/23 10:45 PM CDT

Concerning:

Watches #344, #345

Fields Plotted





NCEP Quarterly Newsletter

Home (Classic) **SPC Products All SPC Forecasts Current Watches** Meso. Discussions **Conv. Outlooks Tstm. Outlooks Fire Wx Outlooks** NSS 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



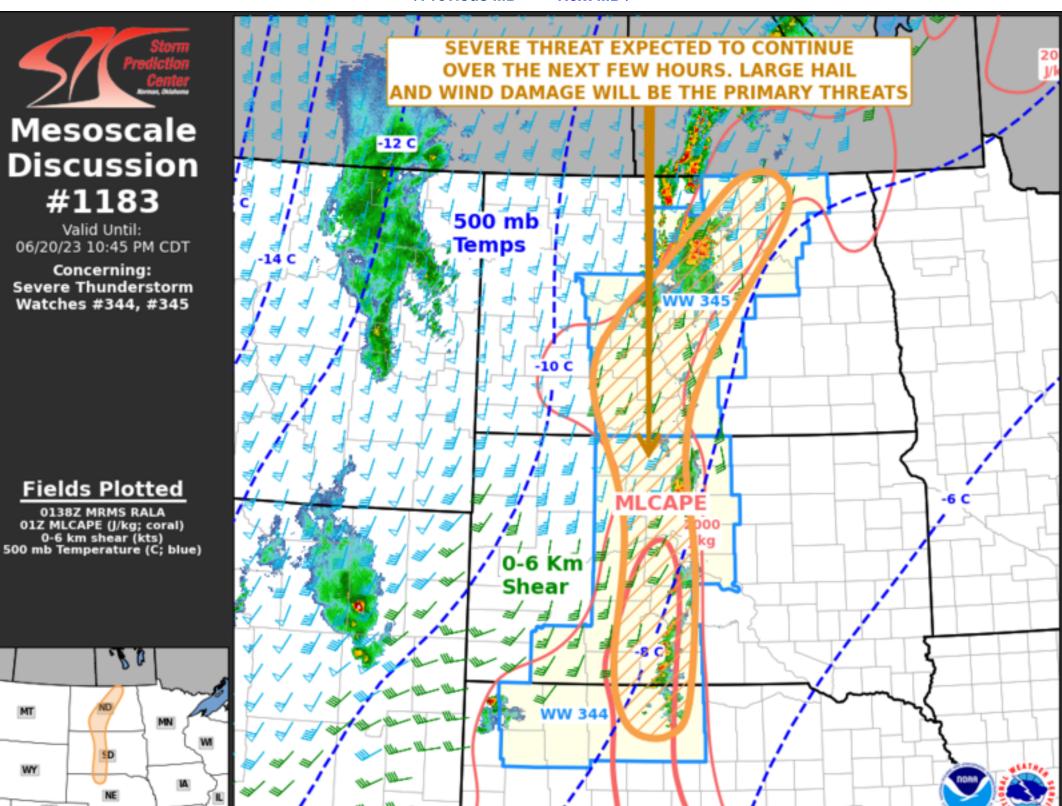
Contact Us

SPC Feedback

Mesoscale Discussion 1183

News

Next MD > < Previous MD



Organization

Mesoscale Discussion 1183 NWS Storm Prediction Center Norman OK 0840 PM CDT Tue Jun 20 2023

Areas affected...Central Dakotas...Northern Nebraska

Concerning...Severe Thunderstorm Watch 344...345...

Valid 210140Z - 210345Z

co

The severe weather threat for Severe Thunderstorm Watch 344, 345 continues.

SUMMARY...A severe threat will likely continue for several more hours from the central Dakotas southward into far northern Nebraska. Large hail and wind damage will be the primary threats.

DISCUSSION...The latest surface analysis shows a north-to-south quasi-stationary front located across the central Dakotas. MLCAPE along this corridor is from 2000 to 4000 J/kg according the RAP. One area of storms is located near a maximum in instability across north-central North Dakota, with a second located in southern South Dakota near another instability max. Water vapor imagery shows a shortwave trough over the central High Plains. As this feature approaches from the southwest, large-scale ascent will continue to be favorable for convective development. The HRRR suggests that the greatest convective coverage will be across central South Dakota over the next few hours. In addition to the instability, 0-6 km shear along and near the front is near 45 knots with 700-500 mb lapse rates in the 7.5 to 8 C/km range. This will be favorable for supercells with large hail. Wind damage will also be likely with supercells and short line segments.

..Broyles.. 06/21/2023

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

ATTN...WFO...FGF...ABR...BIS...LBF...UNR...

48979882 48999944 48530012 47900093 47380160 46550205 44940151 43290164 42690154 42410124 42400075 42780042 44340032 45810046 46890003 48489870 48979882

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 21, 2023

Disclaimer Information Quality Help Glossary

Privacy Policy Freedom of Information Act (FOIA) About Us Career Opportunities

• SPC NCEP All NOAA Go

Search for: