

Storm Prediction Center



Site Map

News Organization

Search for:

• SPC NCEP All NOAA Go

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

City, St

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

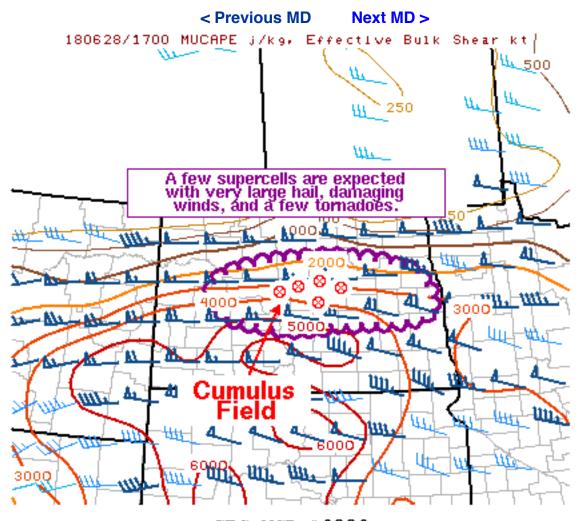
Non-op. Products **Forecast Tools** Svr. Tstm. Events **SPC Publications SPC-NSSL HWT**

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 920



SPC MCD #0920

Mesoscale Discussion 0920 NWS Storm Prediction Center Norman OK 0106 PM CDT Thu Jun 28 2018

Areas affected...Central North Dakota

Concerning...Severe potential...Watch likely

Valid 281806Z - 282000Z

Probability of Watch Issuance...80 percent

SUMMARY...A few supercells are expected to form this afternoon with large hail, damaging winds, and a few tornadoes possible.

DISCUSSION...A cu field north of Bismark has shown some deeper growth on GOES-16 1 minute mesosector. Modifying the 12Z Bismark sounding for 17Z surface conditions (86/70 at KHZE) yields a nearly uncapped mixed-layer parcel. Despite weak subsidence from building heights aloft, and warming 700mb temps due to an advecting EML, expect a few storms to develop in the next hour or two. With 50 to



60 knots of effective shear and SBCAPE of 5000 J/kg south of this boundary, storms will quickly evolve into supercells. In addition, already steep mid-level lapse rates will continue to steepen through the afternoon. This kinematic and thermodynamic environment will be supportive of very large hail and damaging winds. In addition, backed surface winds and a veering wind profile between the surface and 3 km will support a few tornadoes, however, limited speed shear will be the primary limiting factor for a more significant tornado threat this afternoon. A watch is likely in the next hour or two.

..Bentley/Hart.. 06/28/2018

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

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

LAT...LON 47520270 47790259 47970225 48140127 48259981 48249918 48139829 47939743 47619713 47359701 47159729 47089834 47079950 46960047 47010120 47180233 47520270

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 28, 2018

Disclaimer Information Quality Help Glossary Privacy Policy
Freedom of Information Act (FOIA)
About Us
Career Opportunities