

Local forecast by

"City, St" or "ZIP"

f Find us on Facebook

SPC on Facebook

NCEP Quarterly Newsletter

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

Non-op. Products Forecast Tools Svr. Tstm. Events

SPC Publications

SPC-NSSL HWT Education & Outreach

About the SPC

About Tornadoes About Derechos

Enh. Fujita Page

Video Lecture Series

SPC FAQ

WCM Page

Our History

Public Tours

SPC Feedback

USA.gov

Contact Us

Misc. Staff

Research

Home (Classic) SPC Products

@NWSSPC

Go

City, St

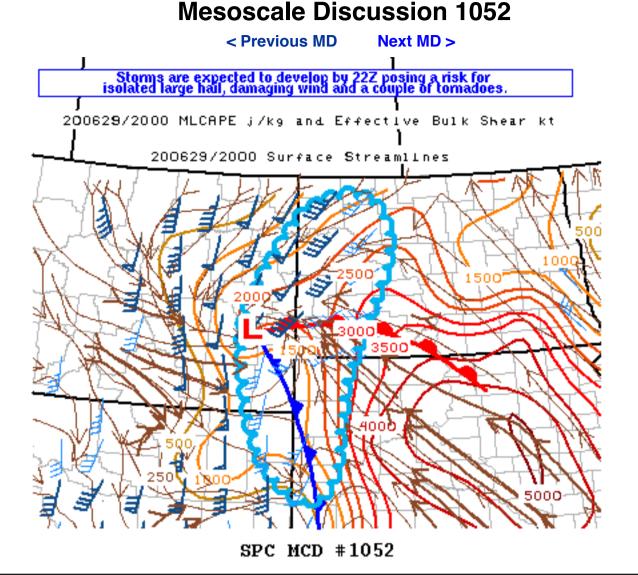
NOAA's National Weather Service

Storm Prediction Center

Site Map

News

Organization



Mesoscale Discussion 1052 NWS Storm Prediction Center Norman OK 0344 PM CDT Mon Jun 29 2020

Areas affected...northeast Wyoming...eastern Montana...western South and North Dakota,

Concerning...Severe potential...Watch possible

Valid 292044Z - 292245Z

Probability of Watch Issuance...60 percent

SUMMARY...Isolated strong to severe thunderstorms are expected to develop over the northern High Plains by 22Z. Trends will continue to be monitored for a possible WW.

DISCUSSION...As of mid afternoon a warm front extends from a surface low in far eastern MT through southwestern ND. A cold front extends southward from the low through southeast MT into southwest SD. The atmosphere in this region has become moderately to strongly unstable with surface dewpoints ranging from the upper 50s to mid 60s F. Further moist advection is expected into early evening beneath steep mid-level lapse rates supporting 1500-3000 J/kg MLCAPE. Visible imagery shows cumulus increasing near and east of triple point along the warm front, with additional towering cumulus over the black hills as well as the higher terrain of northeast WY. RAP analysis also show a weak vorticity maximum lifting northward through eastern WY. Though timing is somewhat uncertain, orographic forcing as well as convergence in vicinity of the triple point and warm front should result in thunderstorm initiation by 22Z. Vertical wind profiles with 30-40 kt effective bulk shear will support both multicell and some supercell structures with damaging wind and large hail the main threats. A window will exist for a couple of tornadoes, mainly near the warm front as low-level shear undergoes some increase during the early evening.

..Dial/Hart.. 06/29/2020

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

ATTN...WFO...BIS...UNR...BYZ...GGW...

LAT...LON 44370480 46100528 47160490 48390375 48650236 47730175 45650279 43950310 43560378 44370480

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 29, 2020

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

Mesoso



Search for:

💿 SPC 🔵 NCEP 🔵 All NOAA 😡