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

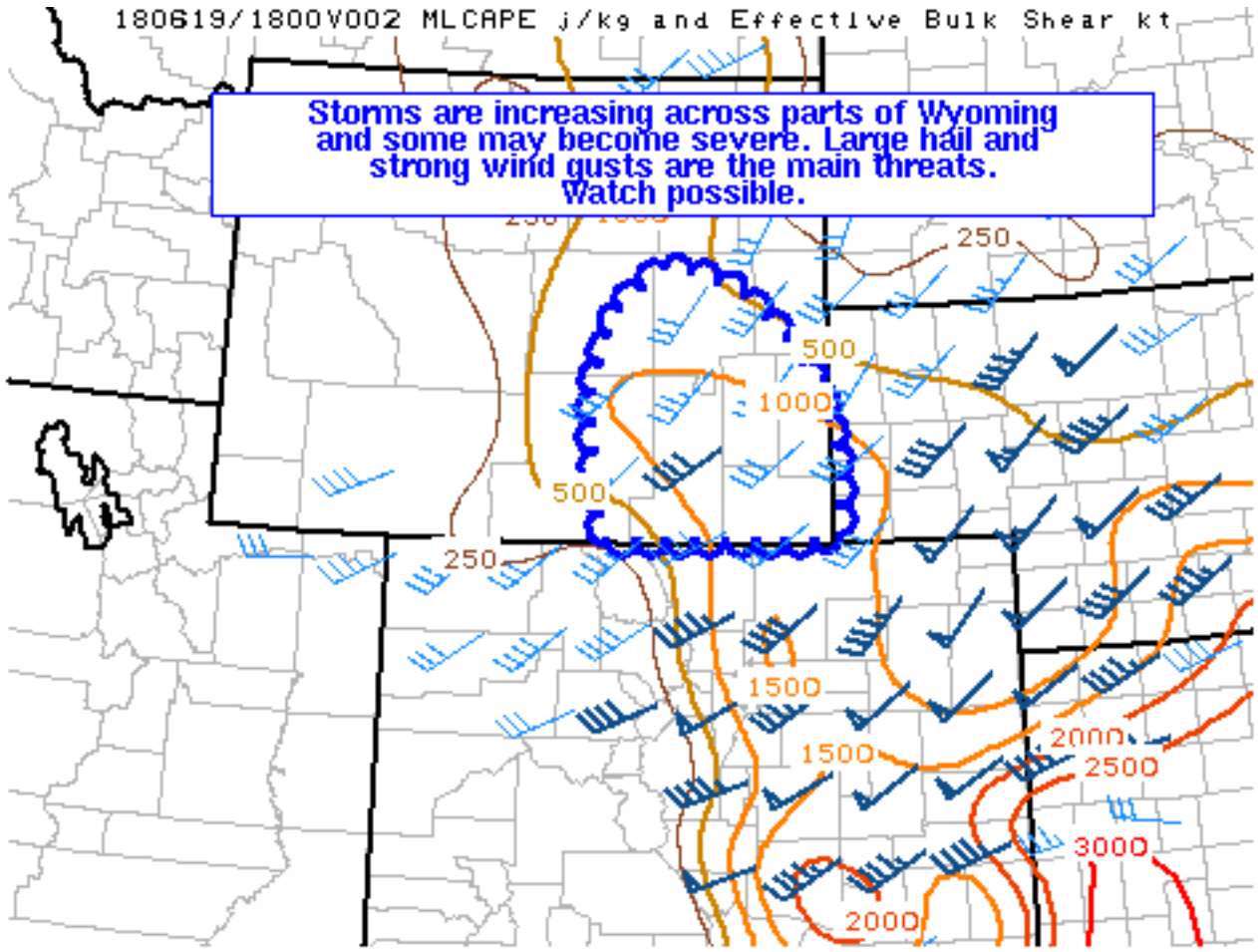
Education & Outreach
- About the SPC
- SPC FAQ
- About Tornadoes
- About Derechos
- Video Lecture Series
- WCM Page
- Enh. Fujita Page
- Our History
- Public Tours

Misc.
- Staff

Contact Us
- SPC Feedback

Mesoscale Discussion 792

< Previous MD Next MD >



SPC MCD #0792

Mesoscale Discussion 0792
NWS Storm Prediction Center Norman OK
0138 PM CDT Tue Jun 19 2018

Areas affected...Southern/Eastern Wyoming

Concerning...Severe potential...Watch possible

Valid 191838Z - 192045Z

Probability of Watch Issuance...40 percent

SUMMARY...Storms are developing across parts of Wyoming and some could become severe this afternoon. Large hail and strong wind gusts are the main threats.

DISCUSSION...An upper-level trough is centered near Yellowstone with vorticity maxima rotating around the southern/eastern periphery providing forcing for ascent across Wyoming per recent satellite imagery. The falling heights/temperatures aloft should steepen lapse rates/increase buoyancy with forecast RAP MLCAPE values of 500-1000

J/kg this afternoon. The cold temperatures aloft (freezing level at 625 mb) along with increasing buoyancy/shear should allow for efficient hail growth.

Cloud cover over southeastern Wyoming is currently inhibiting substantial destabilization. If surface heating increases ahead of the developing storms, the wind threat could increase with steeper low-level lapse rates and higher LCLs. Moisture is limited to the west (surface dewpoints < 50F; precipitable water 0.5-0.7"), but does increase across far southeast Wyoming. A loosely-organized multi-cell cluster is expected to continue across Wyoming and possibly building upscale into a MCS later this evening.

..Nauslar/Peters/Weiss.. 06/19/2018

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

ATTN...WFO...CYS...RIW...

LAT...LON 41020659 41420671 42300678 42980654 43380588 43210516
42770451 42280413 41650395 41000396 41020659

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 19, 2018

Disclaimer
Information Quality
Help
Glossary

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