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

City, St | Go

Find us on Facebook

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

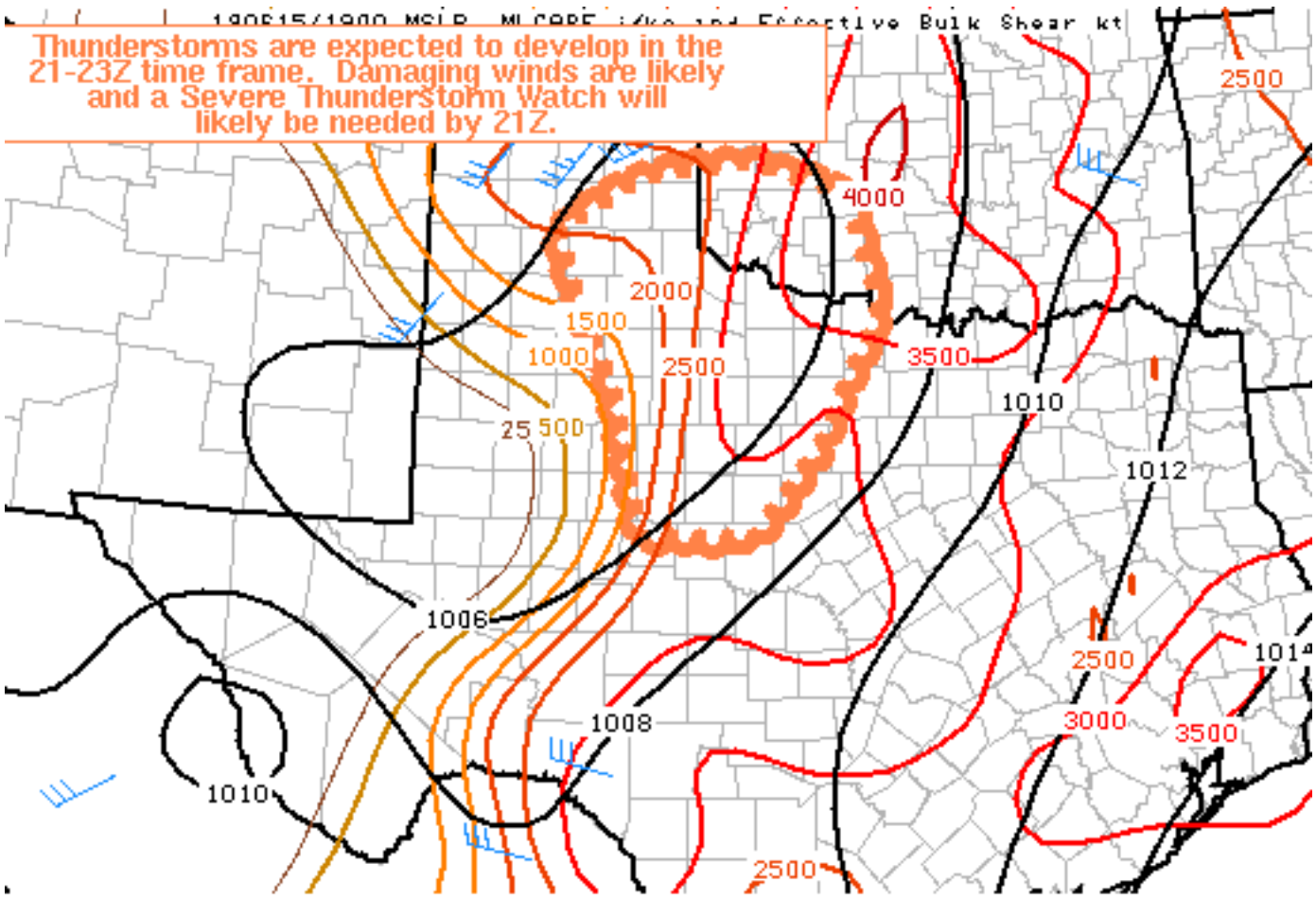
Education & Outreach
- About the SPC
- SPC FAQ
- About Tornadoes
- About Derechos
- Video Lecture Series
- WCM Page
- Enh. Fujita Page
- Our History
- Public Tours

Misc.
- Staff

Contact Us
- SPC Feedback

Mesoscale Discussion 1073

< Previous MD Next MD >



SPC MCD #1073

Mesoscale Discussion 1073
NWS Storm Prediction Center Norman OK
0246 PM CDT Sat Jun 15 2019

Areas affected...portions of the Texas South Plains...northwest Texas and southwest Oklahoma

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

Valid 151946Z - 152215Z

Probability of Watch Issuance...80 percent

SUMMARY...Thunderstorms are expected to develop over portions of the Texas South Plains, Panhandle and northwest Texas late this afternoon with a risk for mainly damaging winds. A Severe Thunderstorm Watch will likely be issued by 21Z/4 PM CDT.

DISCUSSION...Mid-afternoon surface analysis analyzed a cold front from far northwest OK into the Texas South Plains, where the boundary curved northwest into the Raton Mesa region of northeast

NM. A weak surface low was located east of Lubbock, where a dryline extended south into southwest TX. The moist sector was characterized by lower 90s surface temperatures and 65-70 deg F dew points. Impressively steep mid-level lapse rates (8.5 - 9 deg C/KM) have contributed to very strong instability, with MLCAPE of 2500 to 4000 J/kg at 19Z. West of the dryline, temperatures have approached 100 Deg F.

Latest mesoanalysis shows substantial CINH remains in place given the stout EML, though continued reduction in convective inhibition is expected over the next few hours as ascent with a low-amplitude mid-level wave approaches from the west. Deep-layer shear is modest at best, with 25-35 kts expected across the area through early evening. The thermodynamic environment would strongly support cold pool generation and the potential for damaging winds, possibly significant, as an evolving convective line lifts northeast towards southwest Oklahoma this evening.

Trends in visible satellite imagery are being monitored and a Severe Thunderstorm Watch will likely be issued prior to 21Z/4 pm CDT.

..Bunting/Kerr.. 06/15/2019

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

ATTN...WFO...FWD...OUN...SJT...LUB...AMA...MAF...

LAT...LON 31940060 33300090 33920124 34720156 35220060 35349944
35089836 34039798 32739872 31939942 31940060

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 15, 2019