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

City, St | Go

SPC on Facebook

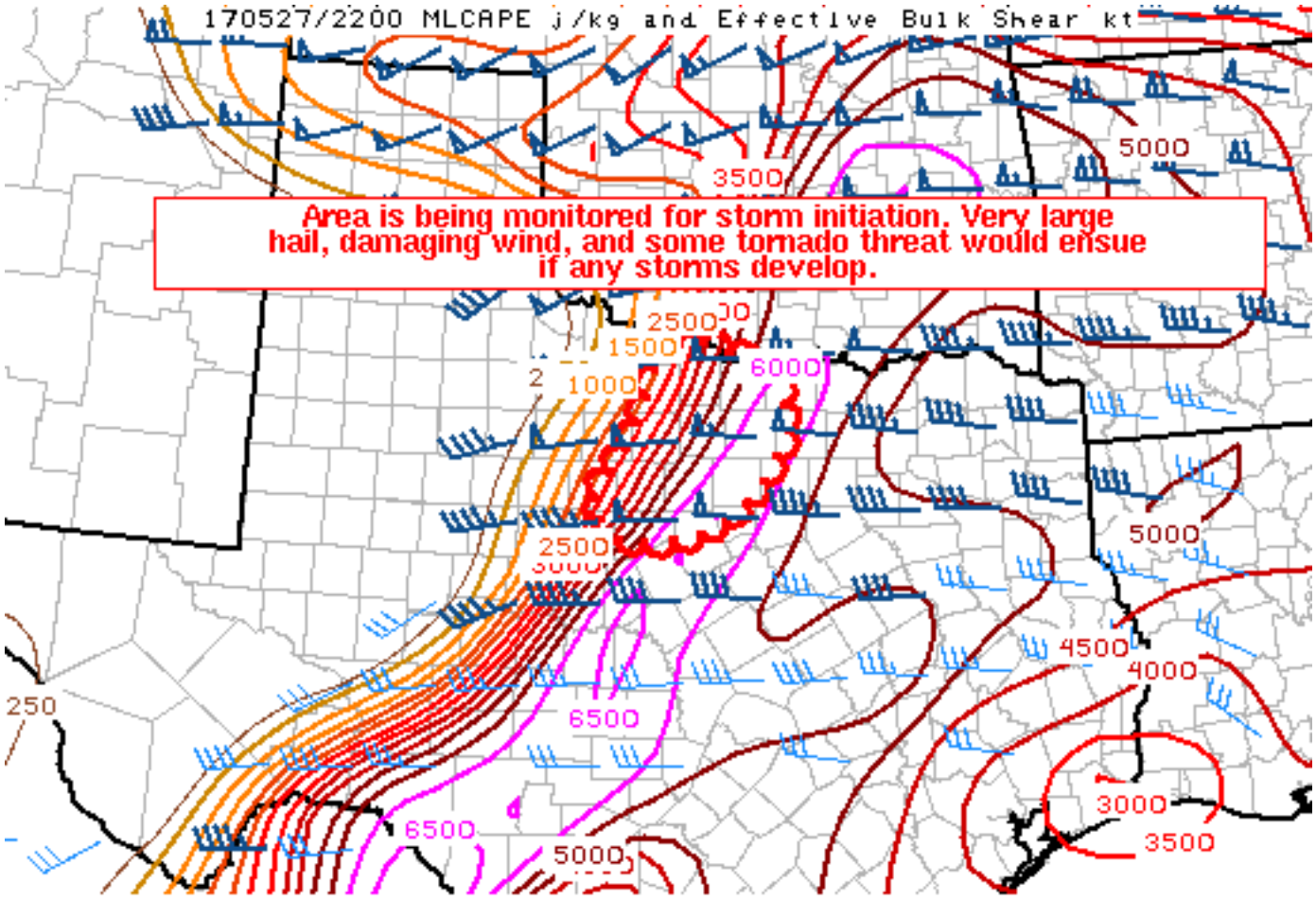
@NWSSPC

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
Watch/Warning 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 877

< Previous MD Next MD >



SPC MCD #0877

Mesoscale Discussion 0877
NWS Storm Prediction Center Norman OK
0600 PM CDT Sat May 27 2017

Areas affected...Portions of North Texas

Concerning...Severe potential...Watch possible

Valid 272300Z - 280030Z

Probability of Watch Issuance...40 percent

SUMMARY...Portions of north Texas are being monitored for thunderstorm development. A substantial conditional (upon development) severe risk exists and watch issuance is possible.

DISCUSSION...Towering cumulus have recently been noted near the Red River across portions of north TX. While large-scale forcing is weak at best across this area, continued convergence in the vicinity of a diffuse dryline may result in storm development during the next 1-2 hours. Steep midlevel lapse rates atop a very warm and moist

boundary layer are resulting in extreme buoyancy, with MLCAPE likely approaching 6000 J/kg in some areas. With moderately strong southwesterly midlevel flow across the region, effective shear is more than sufficient for supercells, and any storms that develop will have a threat of giant hail and localized, but potentially significant, wind gusts. While low-level flow, as sampled by area VWPs, is not overly strong, some tornado threat would also exist given the extreme CAPE environment and some expected intensification of the low-level jet later this evening.

It is unclear how many storms, if any, will develop in the short term across this area, but watch issuance may become necessary if initiation appears imminent.

..Dean/Guyer.. 05/27/2017

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

ATTN...WFO...FWD...OUN...SJT...

LAT...LON 33789869 33949857 34059824 33809741 33279722 32689758
32339810 32199899 32569939 33319886 33789869

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: May 28, 2017

Disclaimer
Information Quality
Help
Glossary

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