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

Find us on Facebook
SPC on Facebook

@NWSSPC

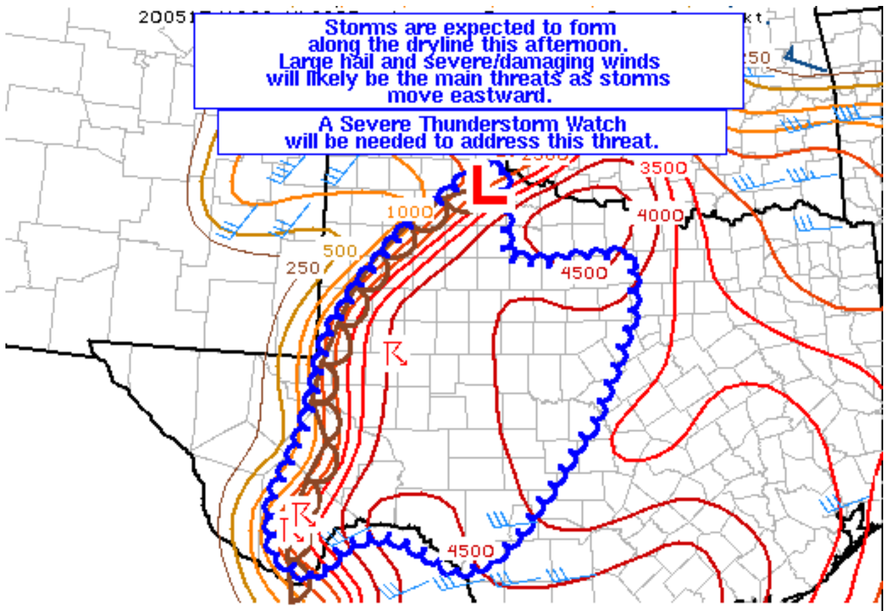
NCEP Quarterly Newsletter

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

USA.gov Government Made Easy

Mesoscale Discussion 600

< Previous MD Next MD >



SPC MCD #0600

Mesoscale Discussion 0600
NWS Storm Prediction Center Norman OK
0230 PM CDT Fri May 15 2020

Areas affected...Portions of west and central TX

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

Valid 151930Z - 152130Z

Probability of Watch Issuance...95 percent

SUMMARY...Storms are expected to develop along the dryline this afternoon. Large hail and severe/damaging winds should be the main threats as storms move eastward. A Severe Thunderstorm Watch will be needed to address this threat.

DISCUSSION...Storms have formed early this afternoon across the higher terrain of Brewster County in the TX Big Bend as a subtle southern-stream shortwave trough moves eastward over this region. At the surface, a dryline extends southwestward from a weak surface low near CDS across much of west TX. Cu is beginning to become agitated along/east of this boundary this afternoon as temperatures continue to increase into the mid/upper 80s and lower 90s and convective inhibition erodes. Low-level convergence along the dryline will likely become sufficient to lift multiple parcels to their LFCs by 20-22Z (3-5 PM CDT), and additional storms will likely form along the length of the dryline across west TX in this time frame.

Rich low-level moisture and steep mid-level lapse rates around 8-8.5 C/km are supporting very strong to extreme instability east of the dryline (MLCAPE 2500-4500 J/kg). Mid-level flow may be slightly enhanced with southward extent across the warm sector in association with the previously mentioned low-amplitude shortwave trough. Even so, effective bulk shear will likely remain limited to 25-30 kt or less. Initial development may pose an isolated large hail threat owing to the very favorable thermodynamic environment. Efficient downdraft accelerations owing to a well-mixed boundary layer will likely support scattered to numerous severe winds as storms congeal into multiple clusters/bows and spread eastward this evening. Damaging winds should become the main threat with time. A Severe Thunderstorm Watch will be needed across parts of west/central TX in the next 1-2 hours (by 21Z/4 PM CDT).

..Gleason/Dial.. 05/15/2020

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

ATTN...WFO...FWD...EWX...SJT...LUB...MAF...

LAT...LON 29360350 30060363 30990316 32340285 33010236 33770166
34290092 34640037 34620012 33370011 33289952 33379803
32589808 31259869 29649998 29200069 29270098 29510131
29680173 29690223 29460266 29130288 29180319 29360350

Top/All Mesoscale Discussions/Forecast Products/Home

Weather Topics:
Watches, Mesoscale Discussions, Outlooks, Fire Weather, All Products, Contact Us