

DAY 1 CONVECTIVE OUTLOOK

NWS STORM PREDICTION CENTER NORMAN OK  
1130 AM CDT TUE MAY 27 2014

VALID 271630Z - 281200Z

...THERE IS A SLGT RISK OF SVR TSTMS OVER PARTS OF THE SRN PLNS AND  
LWR MS VLY...

...THERE IS A SLGT RISK OF SVR TSTMS OVER PARTS OF THE NORTHEAST...

...SUMMARY...

SEVERE THUNDERSTORMS MAY OCCUR ESPECIALLY THIS AFTERNOON AND EVENING  
OVER PARTS OF CENTRAL AND SOUTH TEXAS AND SOUTHERN LOUISIANA. OTHER  
MORE ISOLATED STRONG TO SEVERE THUNDERSTORMS WILL BE POSSIBLE OVER  
PARTS OF THE NORTHEAST...THE MISSISSIPPI VALLEY...THE  
MID-SOUTH...THE DAKOTAS...AND MONTANA.

...SYNOPTIC SETUP...

SRN PLNS CLOSED LOW SHOULD EDGE SLOWLY ESE TO THE ARKLATEX BY 12Z  
WED AS THE MAIN BELT OF WLYS CONTINUES FROM THE PACIFIC NW ACROSS S  
CNTRL CANADA INTO UPSTATE NY/NEW ENGLAND. UPR LOW NOW W OF WA SHOULD  
ADVANCE ESE TO THE WA/ORE CST BY THE END OF THE PERIOD AS DOWNSTREAM  
SPEED MAX NOW CROSSING ORE CONTINUES ENE ACROSS THE NRN GRT  
BASIN/NRN RCKYS. FARTHER E...A SMALL CLOSED LOW WILL DRIFT SLOWLY  
E/SE ACROSS THE UPR MS VLY...WHILE MODERATE NW FLOW PERSISTS OVER  
THE NERN STATES. A DISTURBANCE IN THIS FLOW...NOW S OF JAMES  
BAY...SHOULD REACH S CNTRL QUE BY THIS EVE.

OUTSIDE OF A SLOWLY-PROGRESSIVE...WAVY COLD FRONT OVER THE INTERIOR  
NORTHWEST...AND A BACK-DOOR COLD FRONT OVER WRN NEW ENGLAND...  
FEATURES WILL REMAIN WEAK AT LWR LVLS. OUTFLOW BOUNDARIES ASSOCIATED  
WITH EXPANSIVE OVERNIGHT CONVECTION OVER THE SRN PLNS WILL ONCE  
AGAIN DOMINATE TSTM DEVELOPMENT IN THAT REGION EWD INTO THE LWR MS  
VLY.

...WRN NEW ENGLAND INTO NRN MID-ATLANTIC THIS AFTN/EVE...  
STRONG SFC HEATING WILL OCCUR OVER THE MID ATLANTIC  
STATES...NY...AND WRN NEW ENGLAND...S AND W OF BACK-DOOR FRONT  
EDGING SLOWLY WSW ACROSS CNTRL NEW ENGLAND. WIND PROFILES OVER MUCH  
OF THE REGION WILL FEATURE 50+ KT NWLY DEEP SHEAR...WITH 25-30 KT  
WNW FLOW AT 850 MB VEERING TO 40+ KT WINDS AT 500 MB. MID-LVL LAPSE  
RATES WILL NOT BE STEEP. BUT SFC-850 MB MOISTURE WILL INCREASE  
THROUGH THE DAY AND BUOYANCY SHOULD BE SUFFICIENT FOR STRONG  
UPDRAFTS GIVEN EVEN MODERATE HEATING. SETUP MAY FOSTER THE  
DEVELOPMENT OF SCTD SUSTAINED STORMS AND POSSIBLY A FEW SUPERCELLS  
WITH LOCALLY DMGG WIND...HAIL...AND PERHAPS A TORNADO. THE SVR  
THREAT WILL BE MAXIMIZED FOR STORMS THAT ARE NOT UNDERCUT BY THE  
BACK-DOOR FRONT...A SCENARIO THAT SEEMS PLAUSIBLE ATTM GIVEN  
EXPECTED RELATIVELY SLOW MOTION OF BOUNDARY.