

AS OF 954 AM EDT THURSDAY...QUICK MORNING UPDATE TO SYNC GRIDS IN WITH RADAR/SATELLITE TRENDS. HAVE WARM FRONT MOVING ACROSS ERN NY TOWARD THE CHAMPLAIN VALLEY AT THIS TIME. ELEVATED INSTABILITY IS RESULTING IN A FEW TSTMS. THIS PRECIP SHOULD PUSH INTO ERN VT BY 16Z. LOOKS LIKE A BIT OF A BREAK IN THE PRECIP AFTERWARD...HOWEVER AS THE CLOUDS BREAK UP DAYTIME HEATING WILL START TO WORK ITS MAGIC. UPSTREAM SOUNDINGS SHOWING A BIT OF A CAP...BUT ONCE WE HIT M-U 70S THAT SHOULD BE BROKEN. LOCAL WRF RUNS INDICATE CONVECTIVE INITIATION ABOUT 17Z ACROSS WRN NY STATE AND THAT SEEMS REASONABLE. UPSTREAM SOUNDINGS AND LATEST 12Z NAM JUST COMING IN ARE SHOWING DECENT INSTABILITY AND SHEAR. POCKET OF DRY AIR ALOFT WILL ENHANCE CHANCE FOR STRONG WIND GUSTS. ALSO SMALL CONCERN OF SUPERCELL DEVELOPMENT DUE TO LOW LEVEL SOUTHERLY WINDS (PRIMARILY TERRAIN DRIVEN IN THE VALLEYS) WITH SW/W WINDS ALOFT. FEEL A HIGH LIKLIHOOD THAT A SVR TSTM WATCH WILL BE NEEDED BY EARLY AFTERNOON FOR MUCH OF THE AREA. DOESNT APPEAR TO BE A HIGH END WIDESPREAD SVR EVENT TYPE OF DAY...BUT STILL A FEW STORMS WILL GO SEVERE AND WE WILL BE MONITORING RADAR CLOSELY THIS AFTN.

AS OF 146 PM EDT THURSDAY...UPDATED FCST TO INCLUDE SVR THUNDERSTORM WATCH NUMBER 587 FOR CPV...SLV AND NORTHERN DACKS. LATEST SFC ANALYSIS SHOWS WEAK BOUNDARY APPROACHING SLV ATTM...WITH SFC BASED CAPE VALUES BTWN 1800-2200 J/KG. LOOPING VIS SATL PICS SHOWS A WEAK CYCLONIC CIRCULATION JUST NORTH OF LAKE ONTARIO MOVING TWD OUR FA. THIS ENHANCED LIFT AND INCREASING AMOUNTS OF INSTABILITY WL HELP IN THE DEVELOPMENT OF SHOWERS AND STORMS. BOTH WRF 4KM/12KM WRF AND RUC13 SHOWS PRECIP AND COMPOSITE REFLECTIVITY ENHANCEMENTS ACRS THIS REGION BY 19Z TODAY. THIS ACTIVITY WL CONTINUE TO TRACK EAST INTO THE DACKS BY MID AFTN AND CPV BY 5PM. STILL SOME QUESTIONS WITH REGARDS TO AREAL COVERAGE AND INTENSITY OF STORMS...DUE TO LARGE DRY LAYER BTWN 700-500MB...WHICH IS DEPICTED NICELY IN THE WATER VAPOR LOOP. OTHERWISE...EXPECT SOME ENHANCED LLVL SHEAR DUE TO SOUTHERLY FLW UP THE CPV LATER THIS AFTN...WHICH COULD HELP WITH STORM ORGANIZATION AND SOME WEAK MID/UPPER LVL ROTATION...ESPECIALLY ACRS ADDISON/RUTLAND COUNTIES. WL CONT TO MONITOR RADAR TRENDS FOR THE EXPECTED INCREASE IN AREAL COVERAGE/INTENSITY OF STORMS OVER THE NEXT 1 TO 2 HRS. IT SHOULD BE A BUSY AFTN AND EARLY EVENING ACRS OUR FA.

AS OF 340 PM EDT THURSDAY...REST OF THIS AFTERNOON MESOSCALE DISCUSSION: CRNT RADAR SHOWS AREAL COVERAGE/INTENSITY OF STORMS INCREASING ACRS THE SLV AND NORTHERN DACKS...STILL JUST BELOW SVR LIMITS. LAPS SOUNDINGS SHOW CAPE PROFILES OF 2000 TO 2500 J/KG...VERY SIMILAR TEMP AND MOISTURE PROFILES. MEANWHILE...AT THE SFC LLVL BOUNDARY IS JUST ENTERING SLV ATTM WITH SOME CONVERGENCE NOTED... WHICH SHOULD ENHANCE LLVL LIFT. AS STORMS MOVE ACRS THE DACKS AND INTO THE CPV...EXPECT OVERALL COVERAGE/INTENSITY TO INCREASE. LAPS AND RUC DATA SHOWS SFC BASED CAPES AROUND 2000 J/KG ASSOCIATED WITH TEMPS IN THE L80S AND SFC DWPTS IN THE MID 60S AT BTV. THIS COMBINED WITH ENHANCED 0-1KM SHEAR FROM SOUTHERLY FLW VEERING QUICKLY TO THE SOUTHWEST AT 85H WL HELP IN DEVELOPING ORGANIZED STORMS WITH SOME ROTATION. FURTHERMORE...LATEST RUC AND LAPS 0-3KM VGP SHOWS AXIS OF 0.25 TO 0.35 DEVELOPING ACROSS THE CENTRAL/SOUTHERN CPV

BTWN 20Z-22Z. THIS INDICATES GOOD SHEAR AND CAPE PARAMETERS WL BE  
PRESENT. WL CONT TO MONITOR RADAR THIS AFTN...BUT STILL THINK  
LARGE DRY LAYER WL LIMIT THE OVERALL AREAL COVERAGE OF CONVECTION.