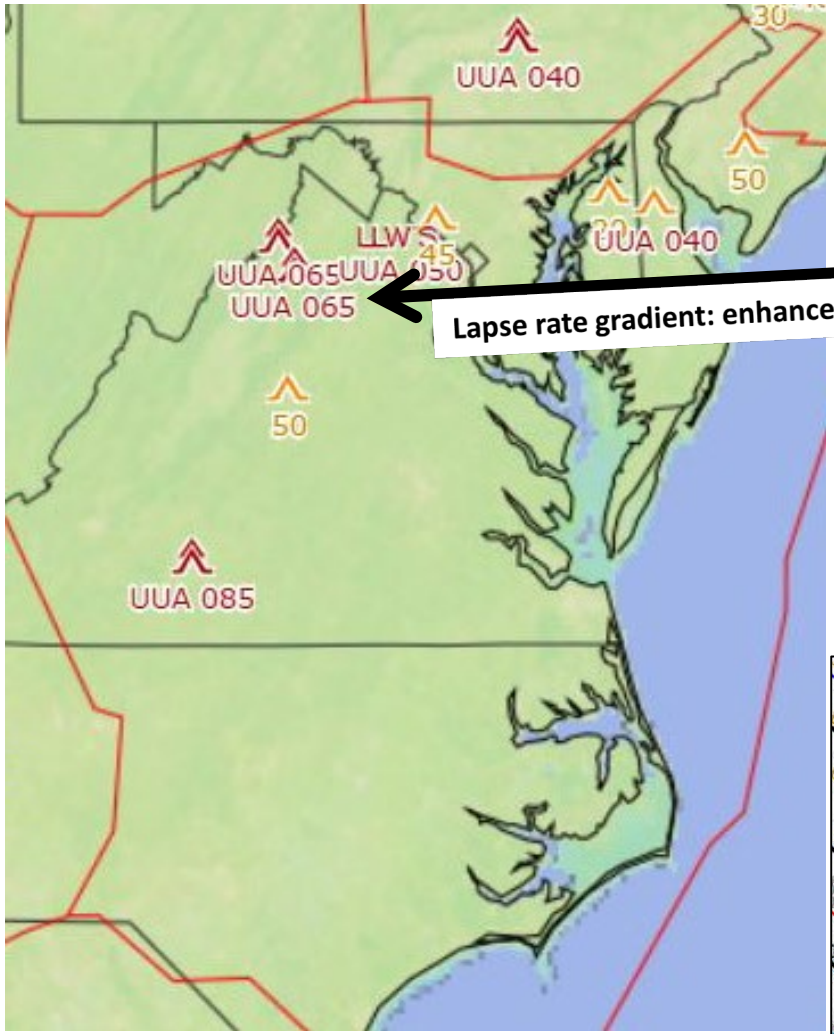
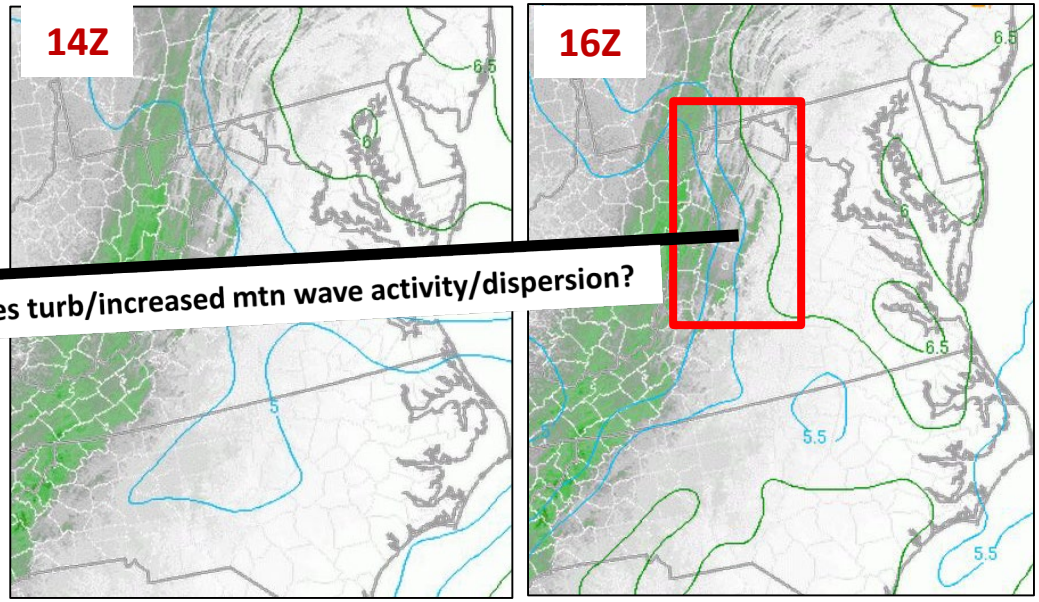
10/26/2014: MOD-SEV TURBULENCE BELOW 100 IN THE MORNING

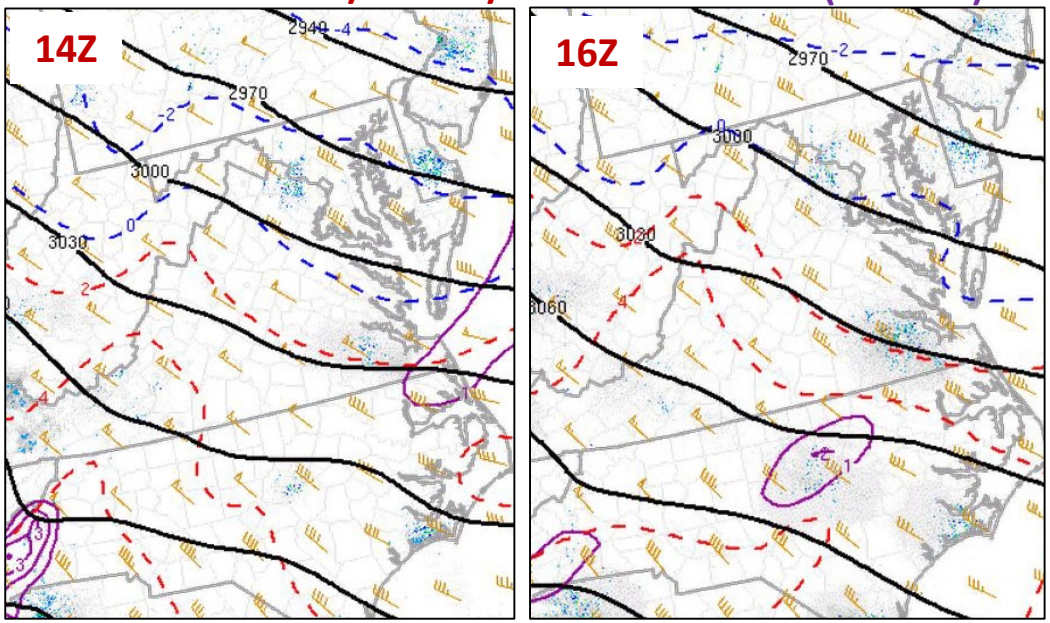
MOD+/LLWS PIREPS BLW 100 FROM 11Z-17Z:



0-3 KM LAPSE RATES



700 MB WINDS / TEMP / FRONTOGENESIS (PURPLE)

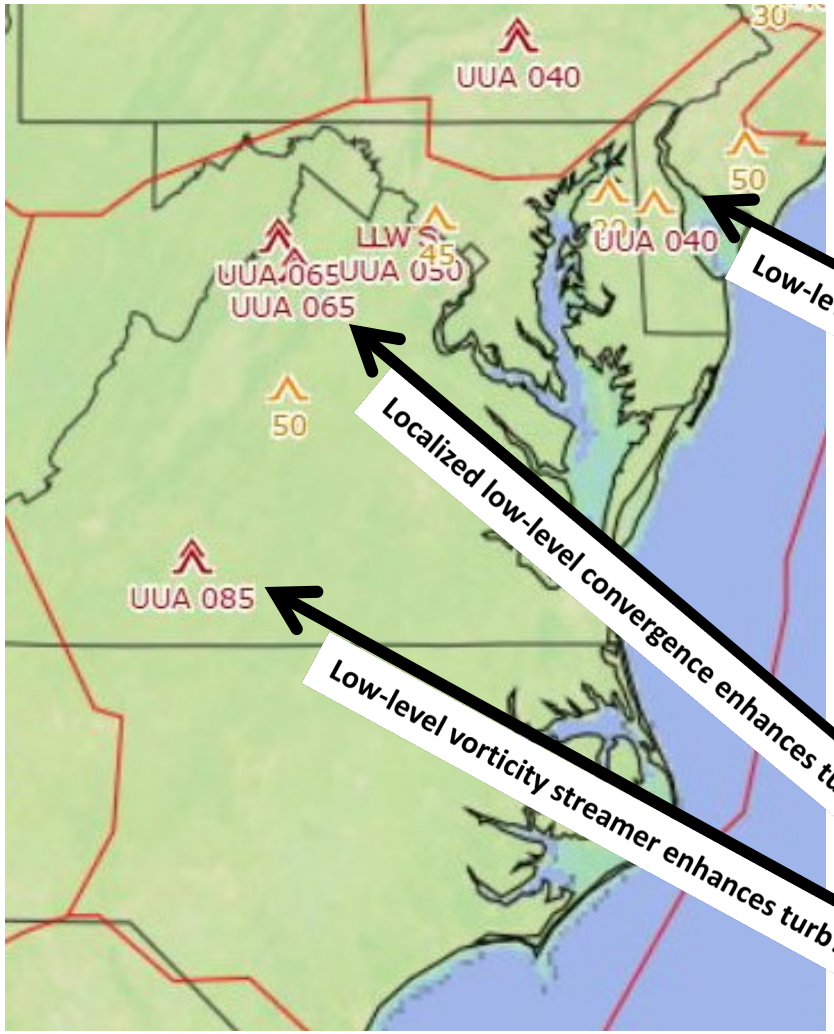


0-3 KM STABILITY: Lapse rates ≤ 5°C/km over/W of mtns, lapse rates > 6°C/km E of mtns. Does lapse rate gradient (caused, in part, by surface heating) over W VA enhance turb/increase mtn wave activity/dispersion?

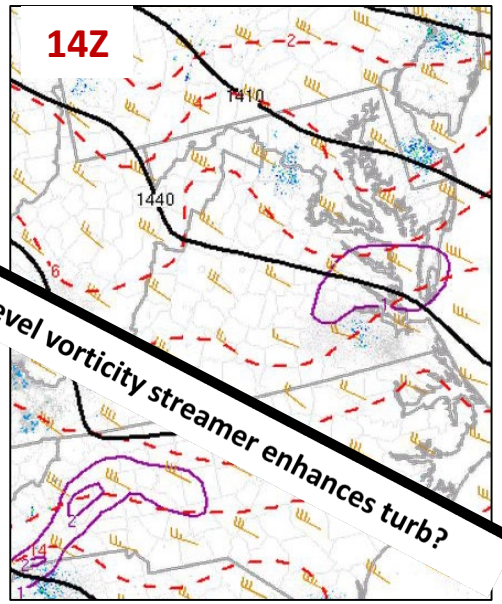
700 MB: Winds NW 40-55 kts over mtns = mtn waves, pronounced warming over/just E of mtns

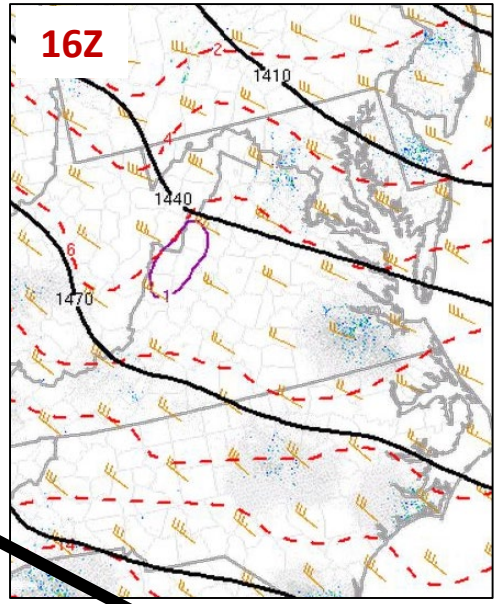
10/26/2014: MOD-SEV TURBULENCE BELOW 100 IN THE MORNING

MOD+/LLWS PIREPS BLW 100 FROM 11Z-17Z:



850 MB WINDS / TEMP / FRONTOGENESIS (PURPLE)



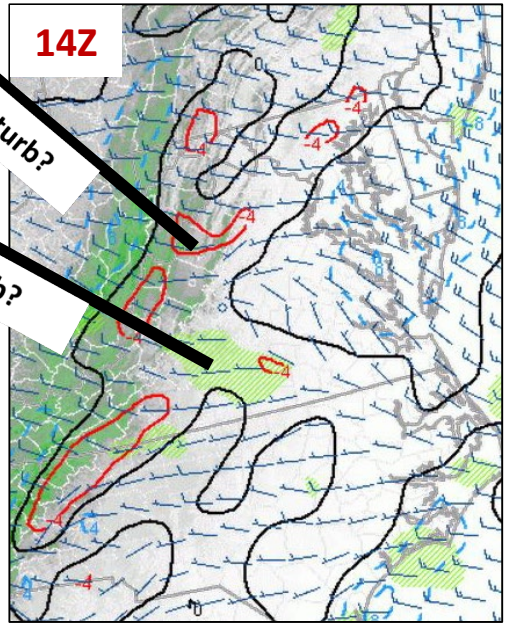


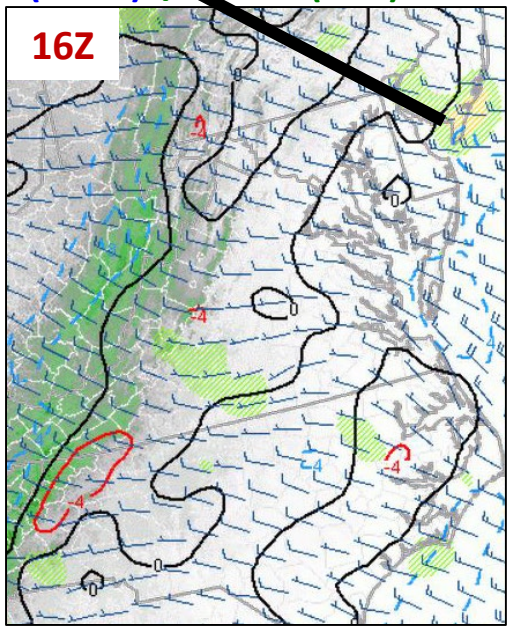
Low-level vorticity streamer enhances turb?

Localized low-level convergence enhances turb?

Low-level vorticity streamer enhances turb?

SFC CONV (RED) / DIV (BLUE) / VORT (FILL)





850 MB: Winds NW 30-45 kts over mtns = mtn waves, some 850 mb frontogenesis notes over Apps in western VA

SURFACE: Areas of low-level convergence (red) & sfc/low level vorticity produced by flow over/around mtns (green/yellow fill in S VA & S NJ/N NE) may enhance low-level turbulence/LLWS