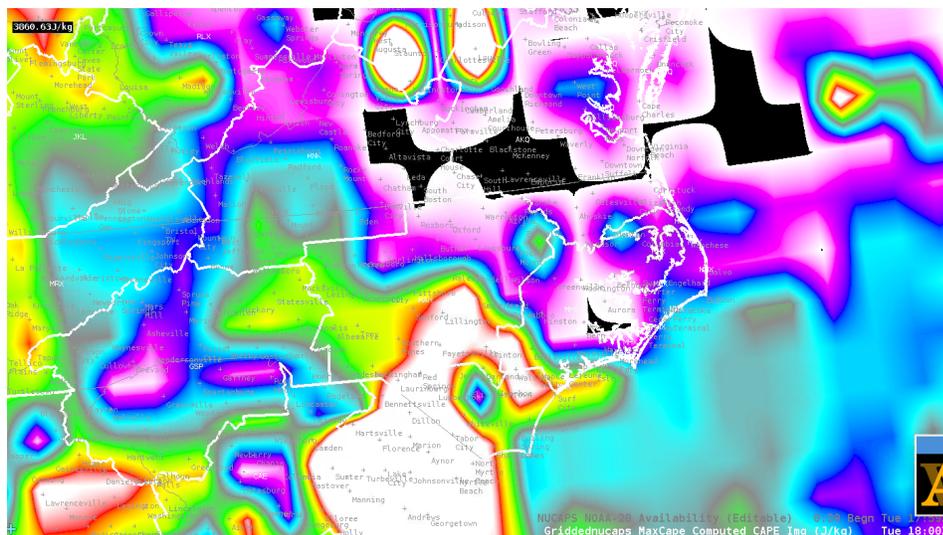


# HAZARDOUS WEATHER TESTBED

## EXPERIMENTAL WARNING PROGRAM BLOG

### Difference in Instability in NUCAPS and PSH

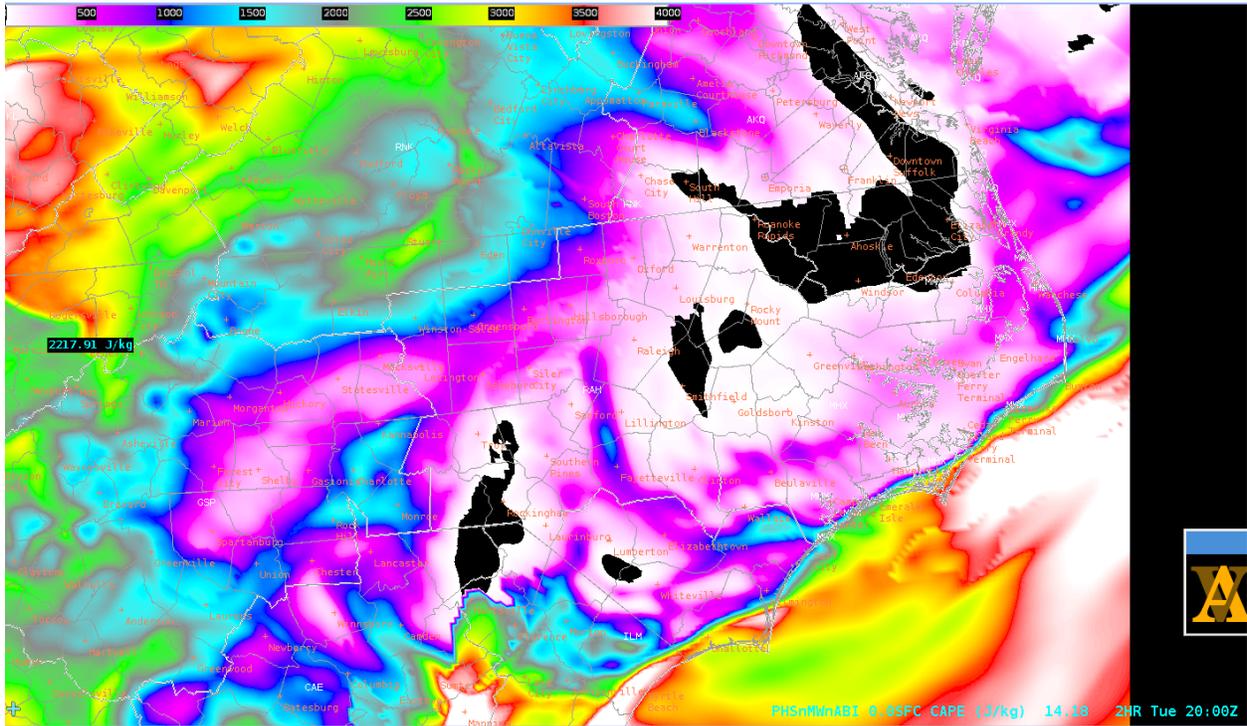
We noticed some large differences in SBCAPE values between the NUCAPS data and the PSH over the Raleigh CWA. NUCAPS had values of over 4000 J/Kg over a large area just to the south of Raleigh with PHS indicating values of less than 1000 J/Kg over the entire domain. Looking at surface observations, the surface dewpoints from NUCAPS may be slightly higher and did modify the boundary layer in the soundings below. This modification yielded values closer to 1500-2000 J/Kg. The modified soundings also introduced some capping to the sounding as well. Included the visible satellite imagery to show the lack of cumulus development in the area to the south of Raleigh.



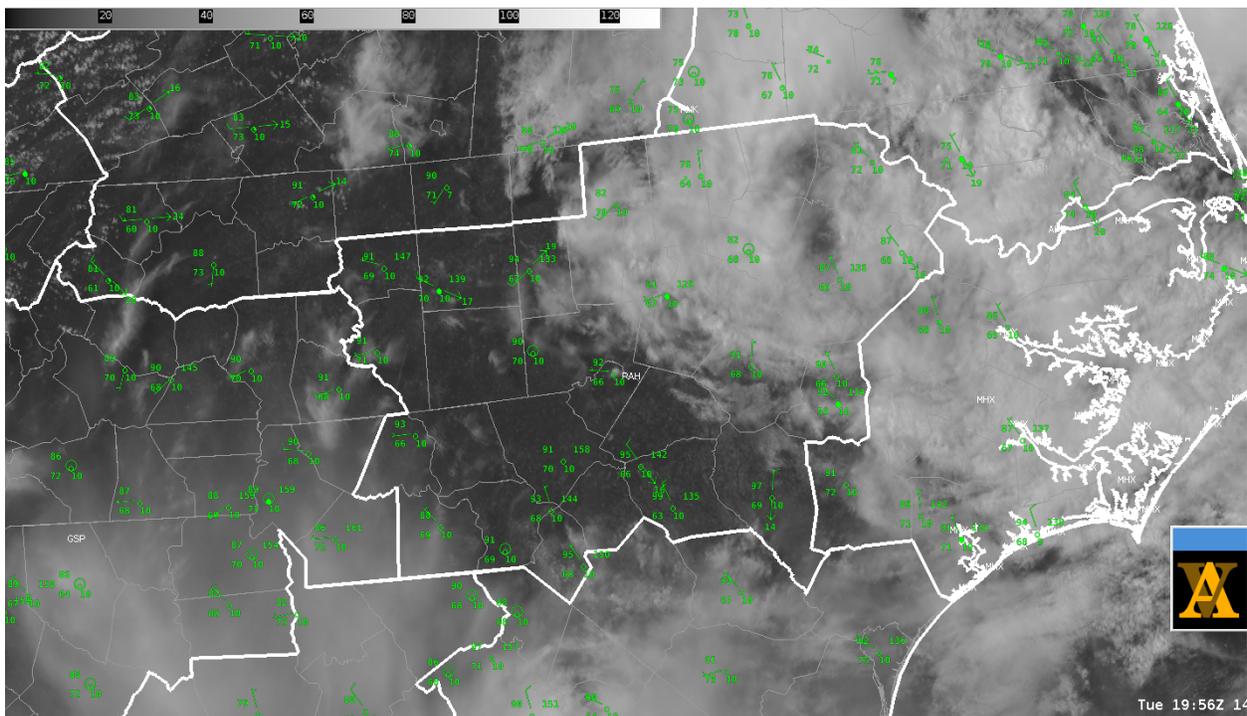
Gridded NUCAPS CAPE 18z

# HAZARDOUS WEATHER TESTBED

## EXPERIMENTAL WARNING PROGRAM BLOG



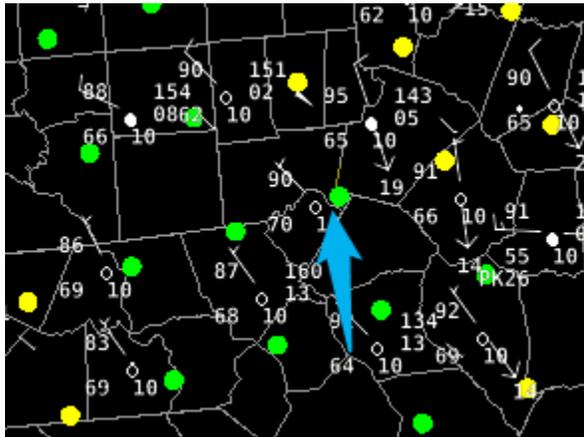
PHS CAPE at 20z.



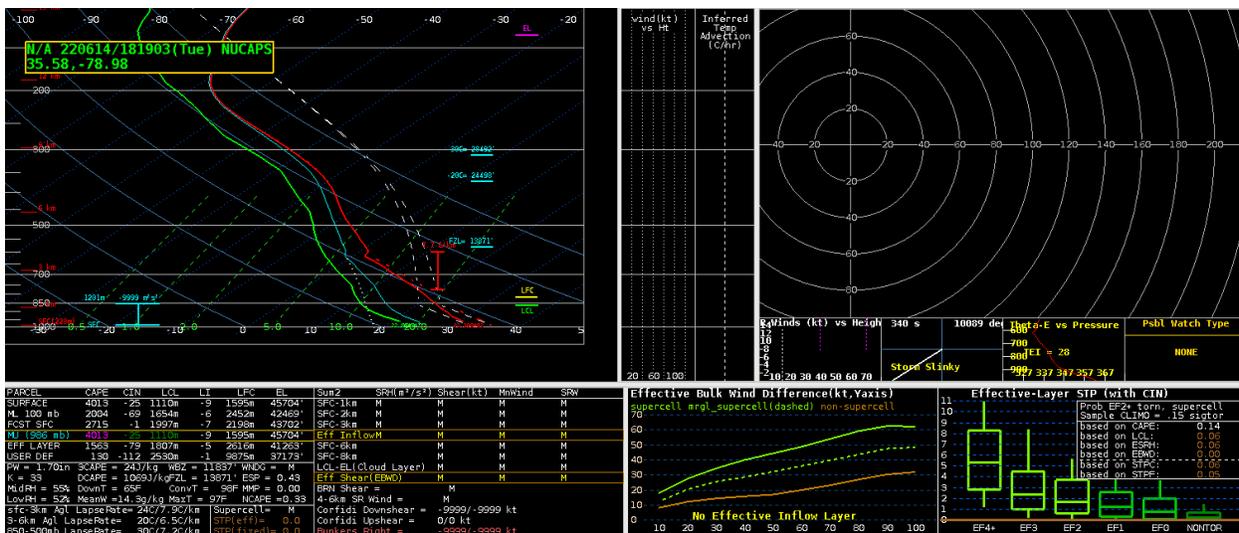
# HAZARDOUS WEATHER TESTBED

## EXPERIMENTAL WARNING PROGRAM BLOG

The point selected with the nearest ob used for images below:



### Original NUCAPS Sounding



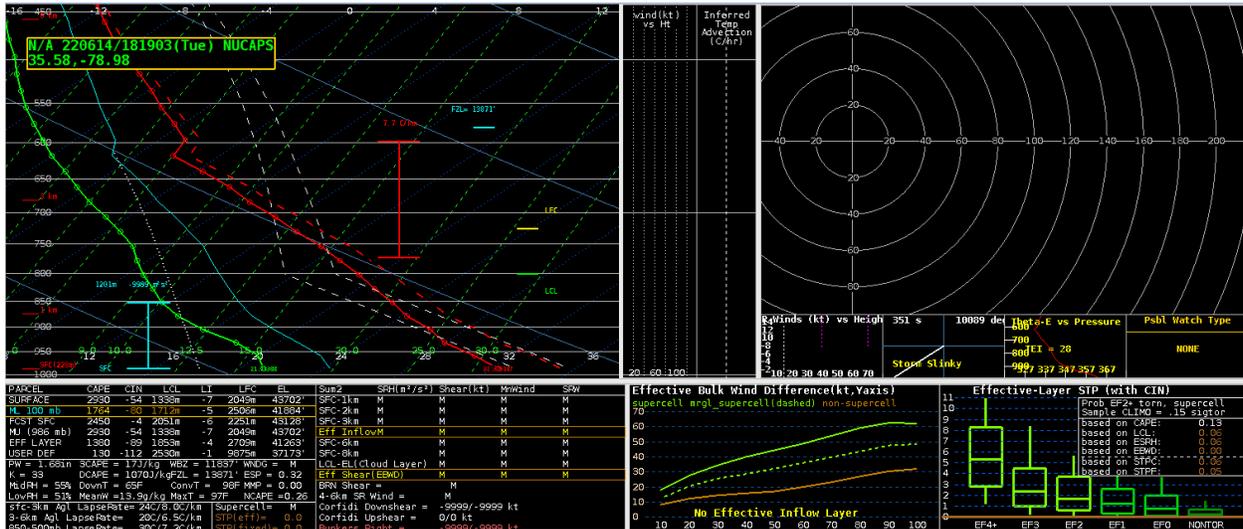
### Original Modified NUCAPS

All EWP Blog posts describe work done in an experimental setting (not official operations) and may include fictitious events and/or activities.

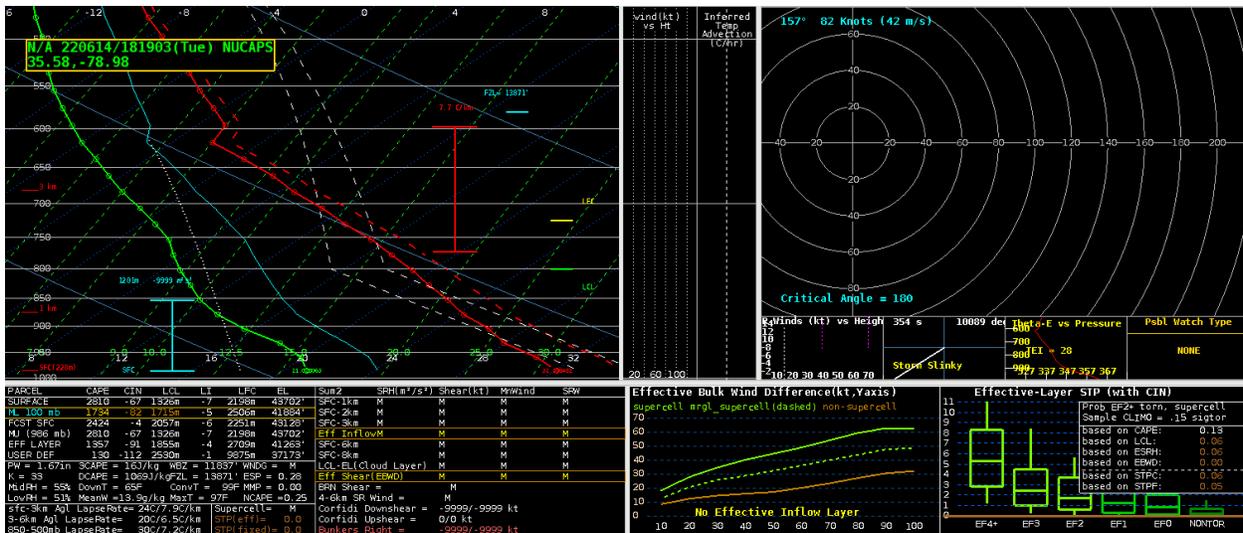


# HAZARDOUS WEATHER TESTBED

## EXPERIMENTAL WARNING PROGRAM BLOG



Modified NUCAPS Modified Sounding for nearest observation point (90°F/70°F)



MartyMcFly

All EWP Blog posts describe work done in an experimental setting (not official operations) and may include fictitious events and/or activities.

