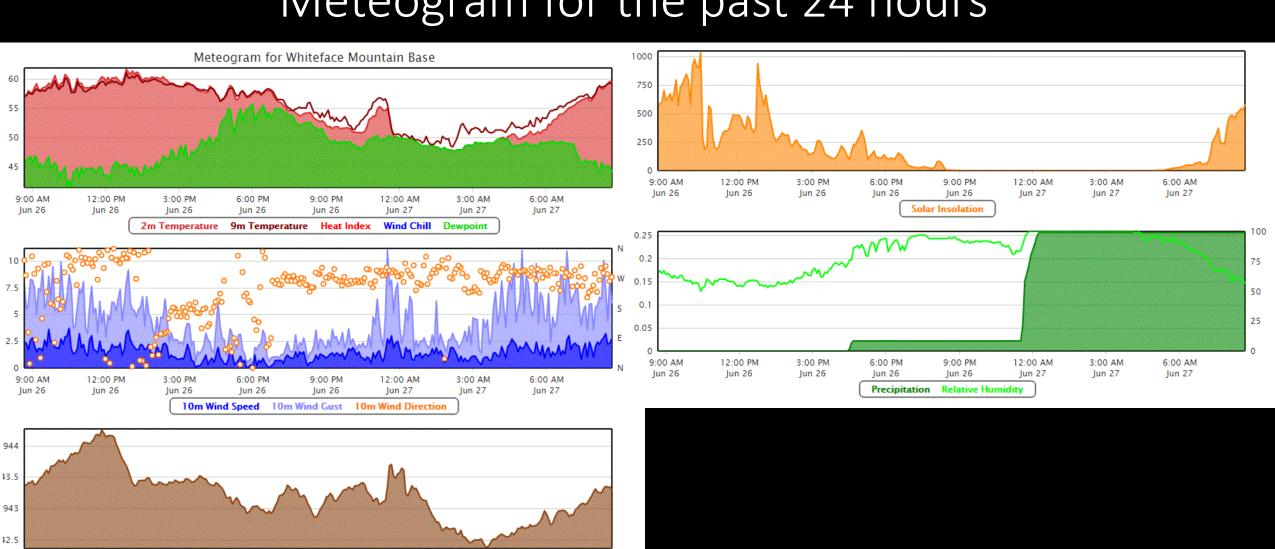
Forecast for 6/28-7/31

Forecaster: Matthew Brewer

Forecast made at: 12z 6/27/2017

Whiteface lodge Mesonet Meteogram for the past 24 hours



12:00 PM

lun 26

lun 26

3:00 PM

Jun 26

6:00 PM

Jun 26

9:00 PM

lun 26

Station Pressure

12:00 AM

lun 27

Jun 27

6:00 AM

Jun 27

http://www.nysmesonet.org/data/meteogram#?stid=WFMB

Whiteface Summit past meteogram



Whiteface Mountain Summit



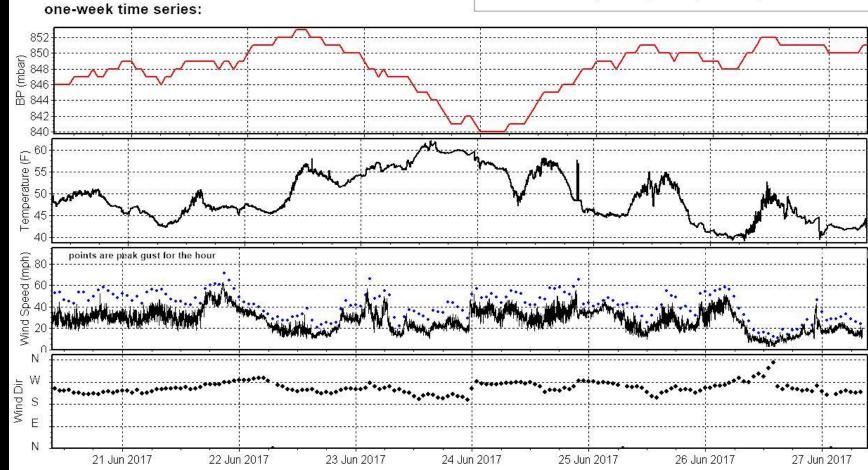




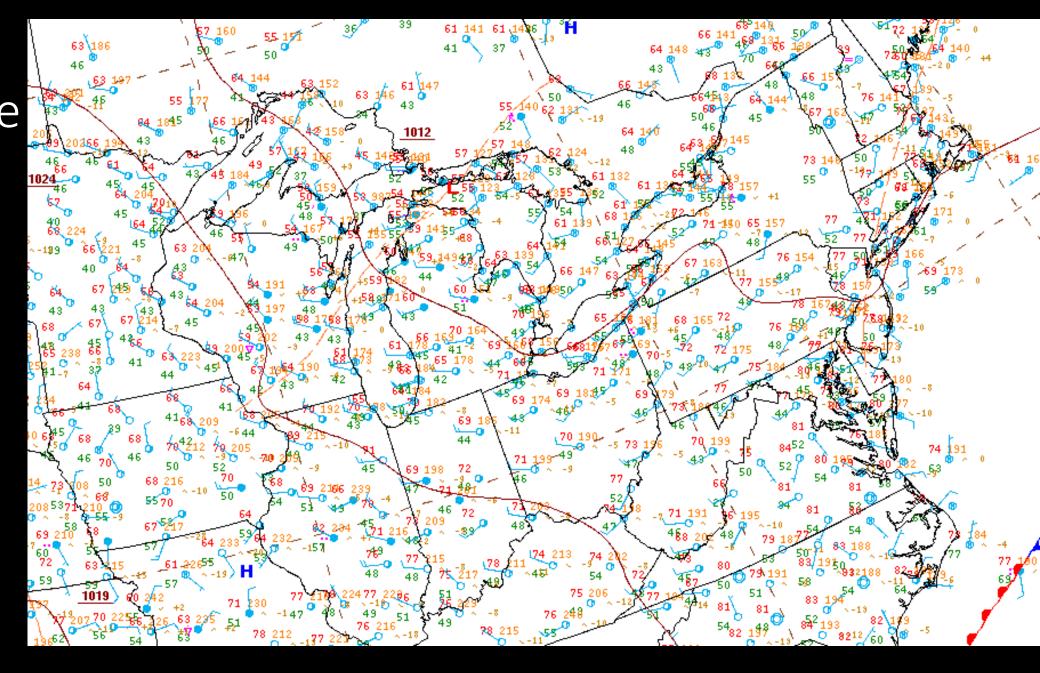
Current image from Whiteface Summit

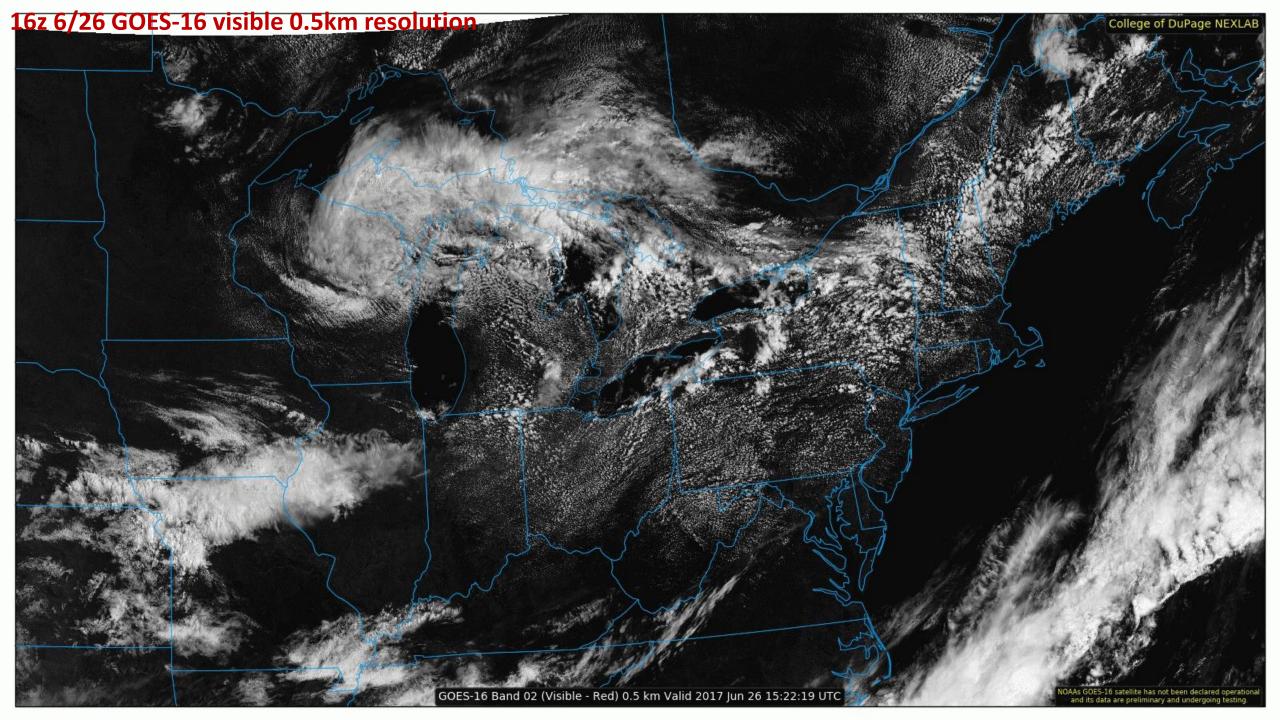
Summit Conditions 06/27 09:21 temperature 44°F / 7°C humidity 100 % wind speed 15mph / 24kph gusting to 24 mph / 39kph Preliminary data: Data displayed on these pages

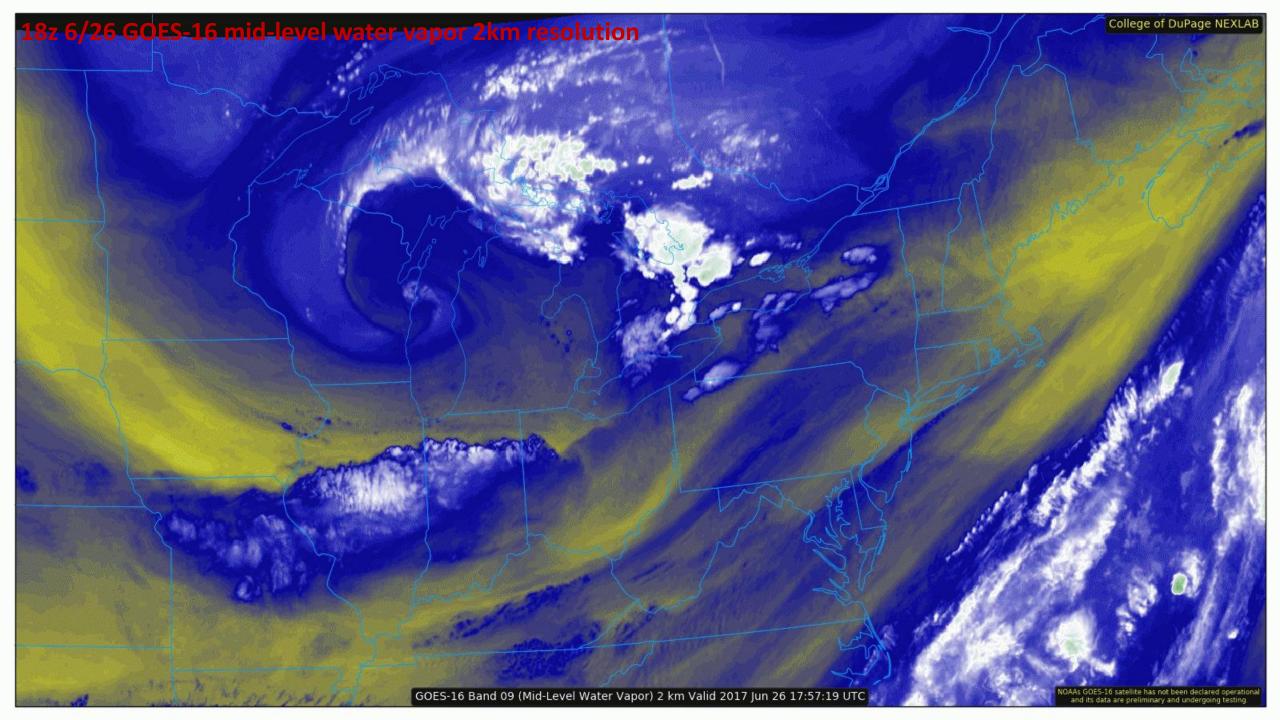
are preliminary and subject to change.

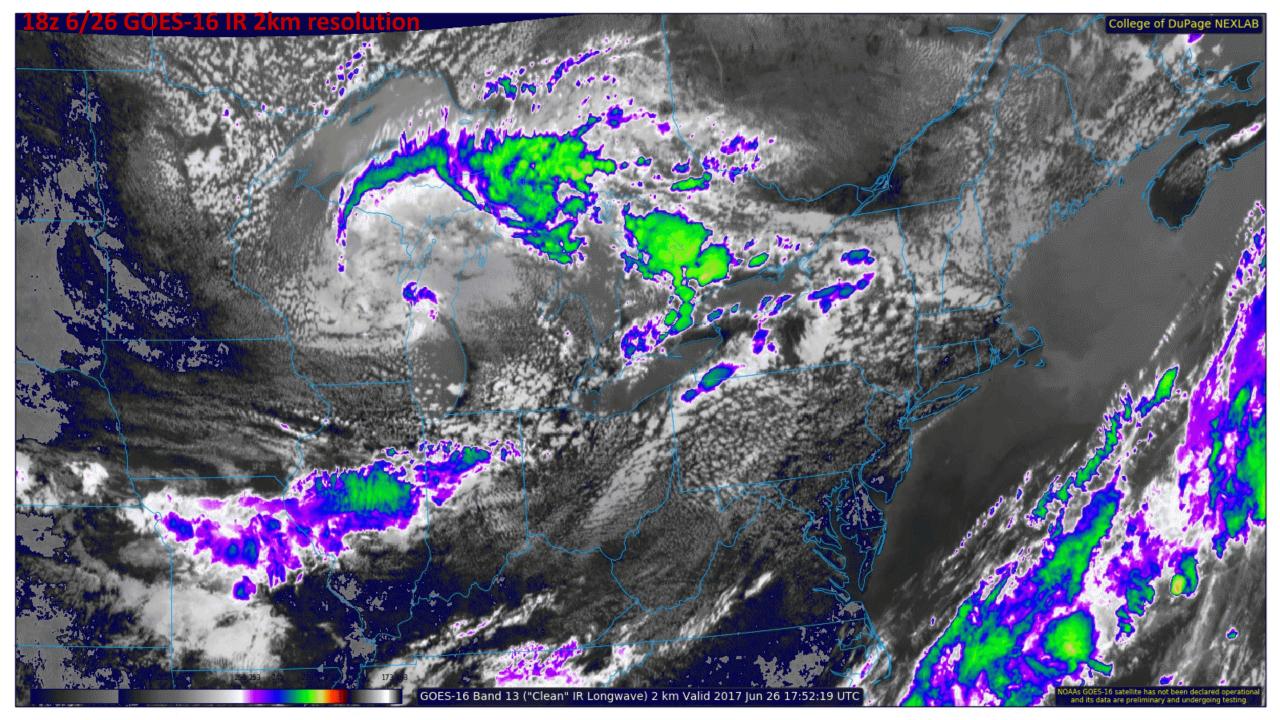


18z surface analysis from yesterday (6/26)



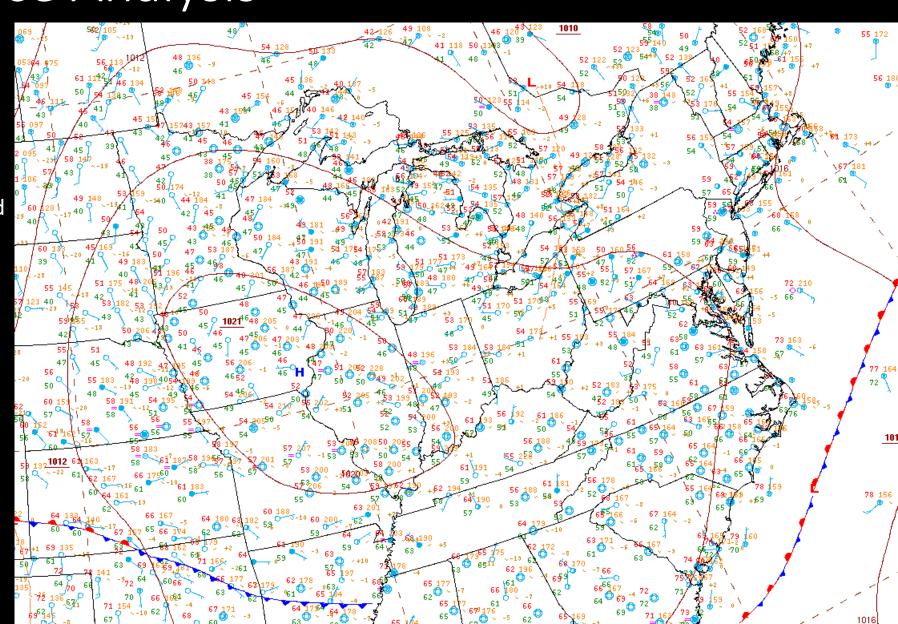


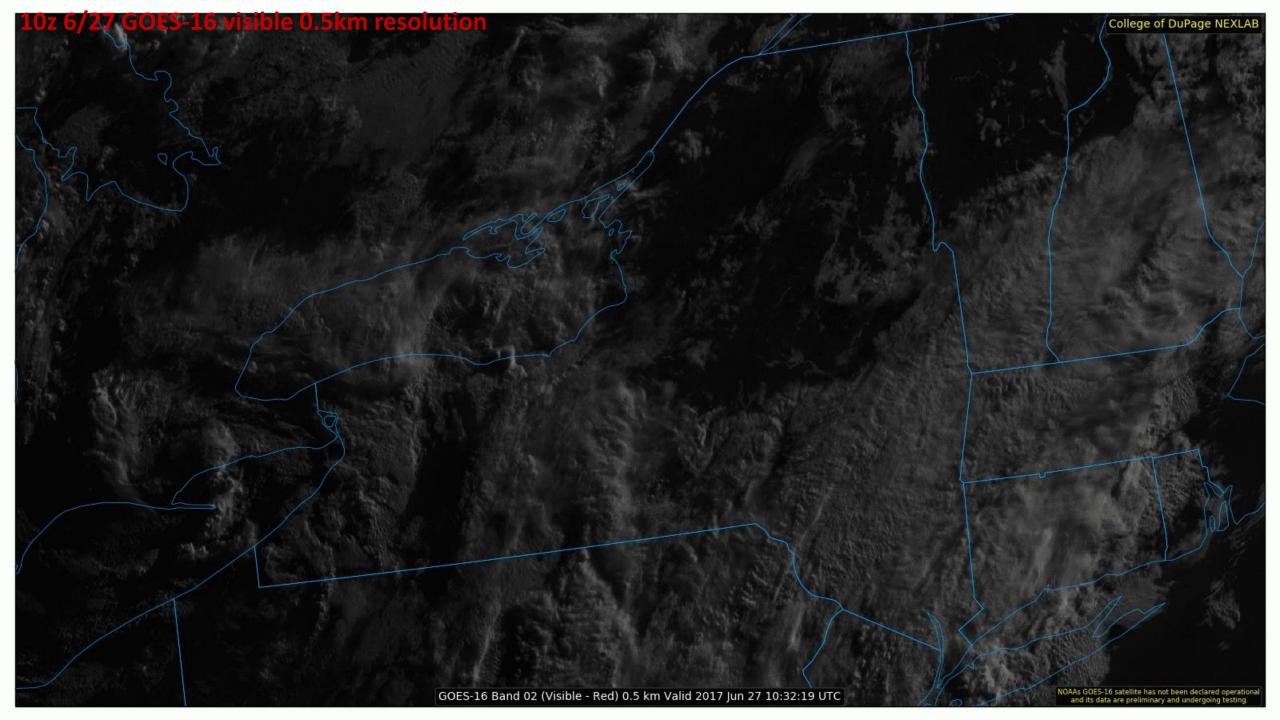


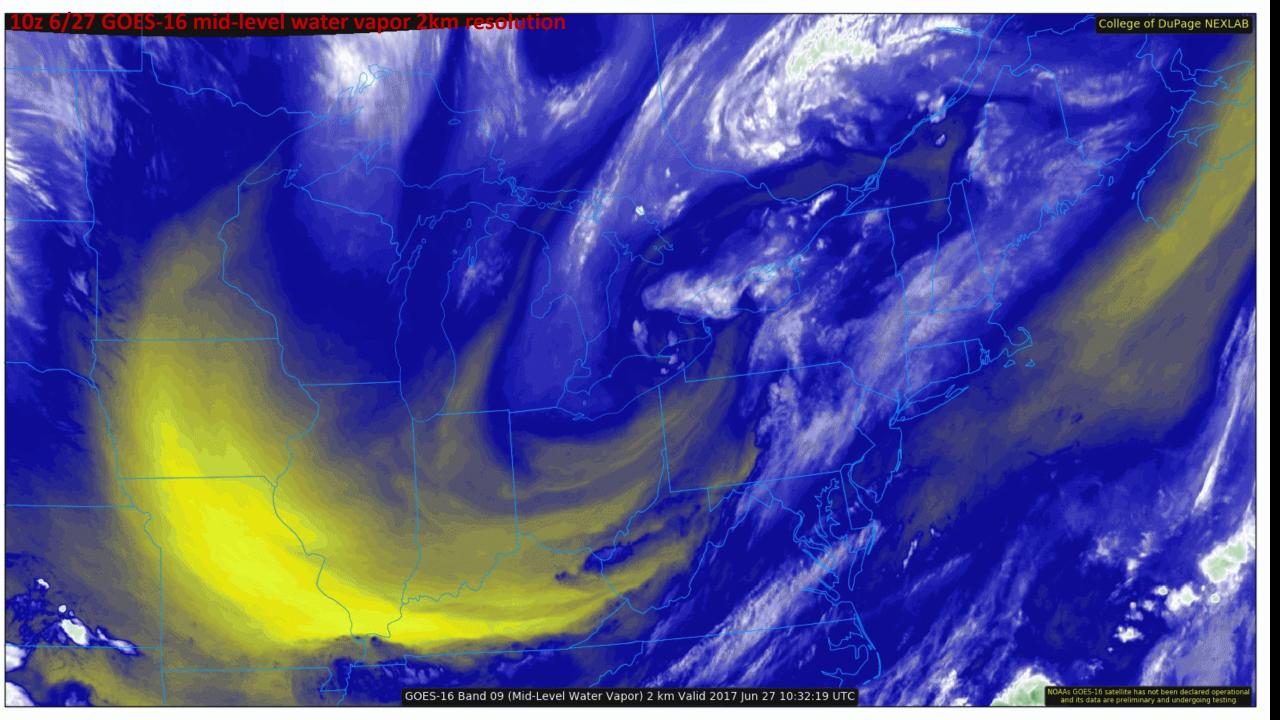


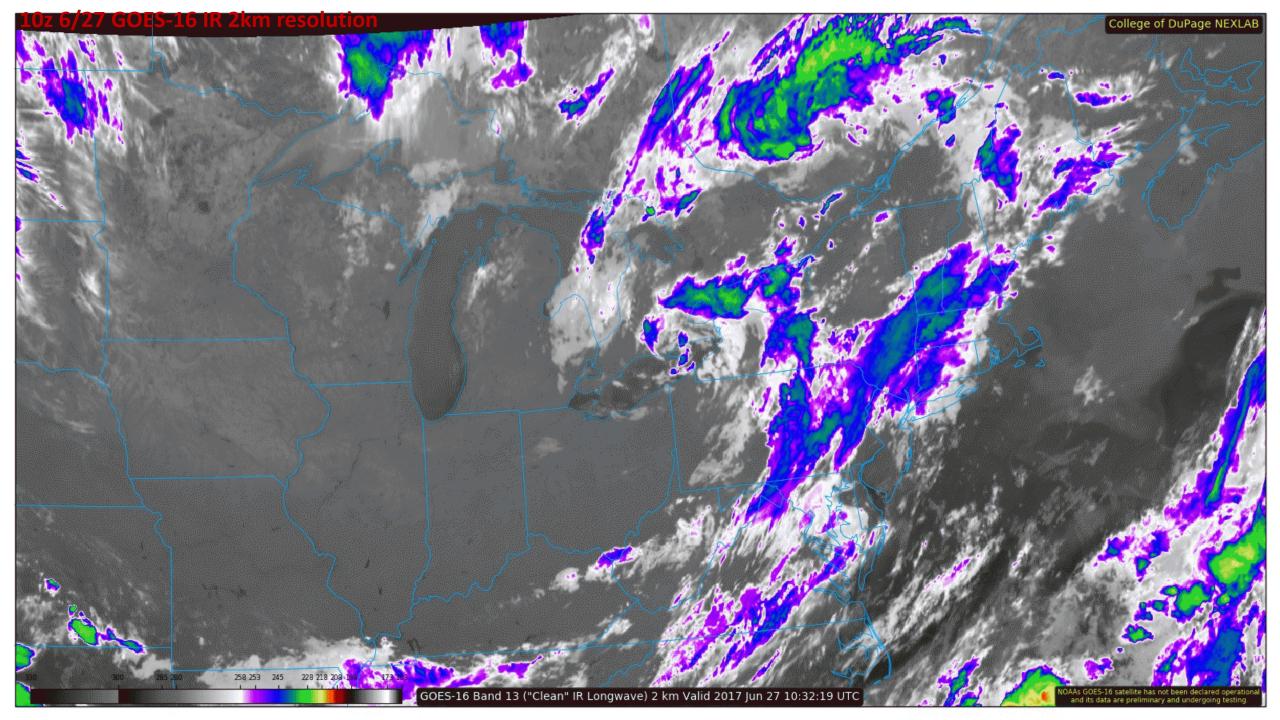
Current Surface Analysis

- Shown is the NOAA WPC surface analysis from 15z 6/23/2017
- The low over the Hudson bay and Lake Huron are forecasted to move that cold front in the Adirondack region tonight









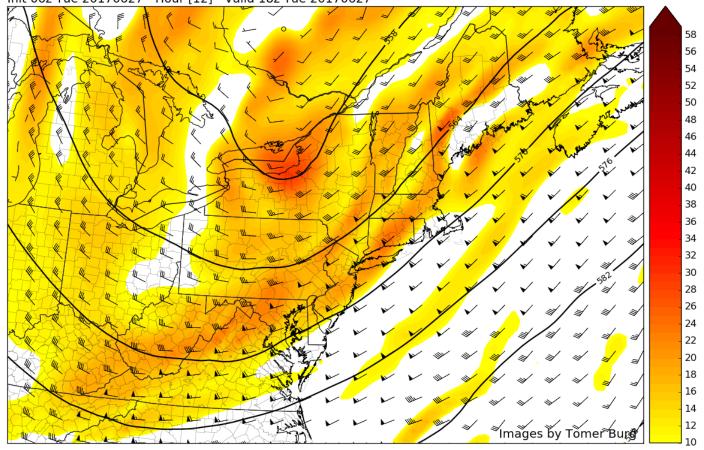
Today

Overview

- Rain likely this afternoon
- Located over central NY is an upper level trough with a local vorticity maximum
- Upward vertical motion will be created by upper level vorticity advection helping force precip
- A cold front will pass through the area which associated with low pressure system located near Ottawa, Ontario
- Vertical instability is also present which will aid in surface based convection and precip formation especially as the cold front passed through the area

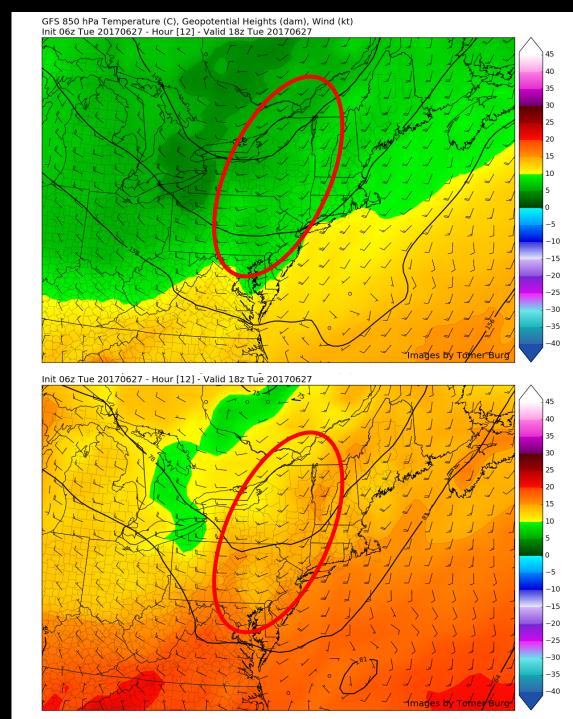
- Shown 500hPa height, wind, and vorticity(filled) from the 6z GFS run valid for 18z today
- The upper level trough has created a local vorticity maximum over NY
- The advection of the vorticity will create upward vertical motion helping force the precip forecasted for today

GFS 500 hPa Absolute Vorticity (1/s), Geopotential Heights (dam), Wind (kt) Init 06z Tue 20170627 - Hour [12] - Valid 18z Tue 20170627

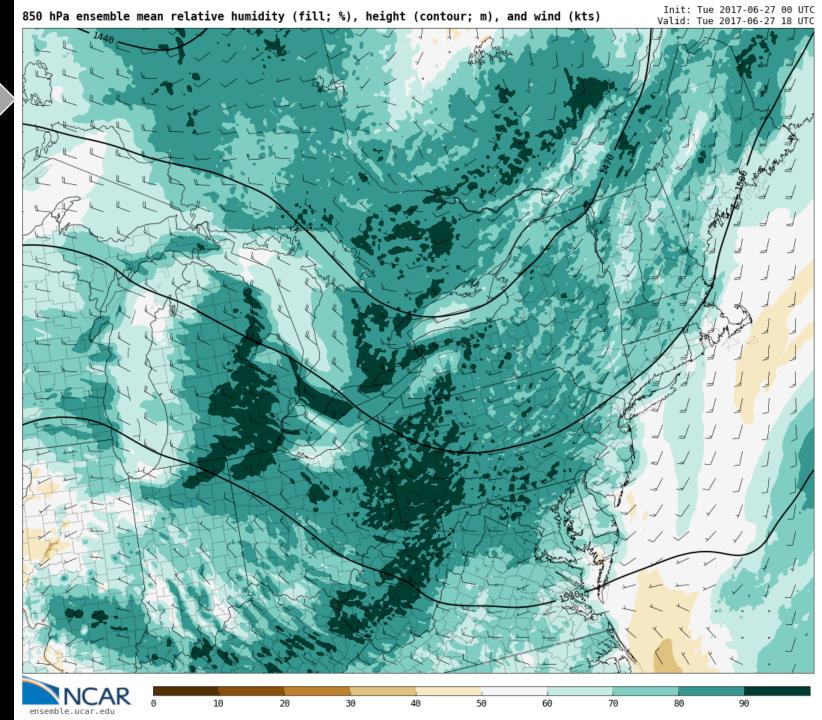




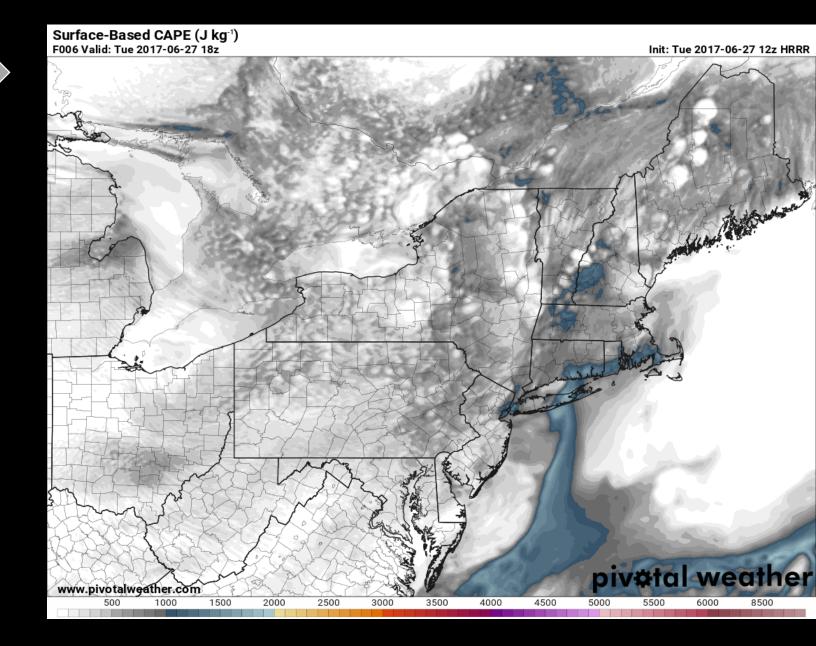
- Top: 850hpa heights, winds, and temperature filled
- Bottom: 925hpa heights, winds, and temperature filled
- The circled areas sow area of a possible weak cold front associated with the low pressure system located in Canada
- The front will creating forcing for cloud formation and precip



- Shown 850hPa height, wind, and relative humidity (filled) from the NCAR valid for 18z today
- High RH will be favorable for cloud formation and precip to occur today

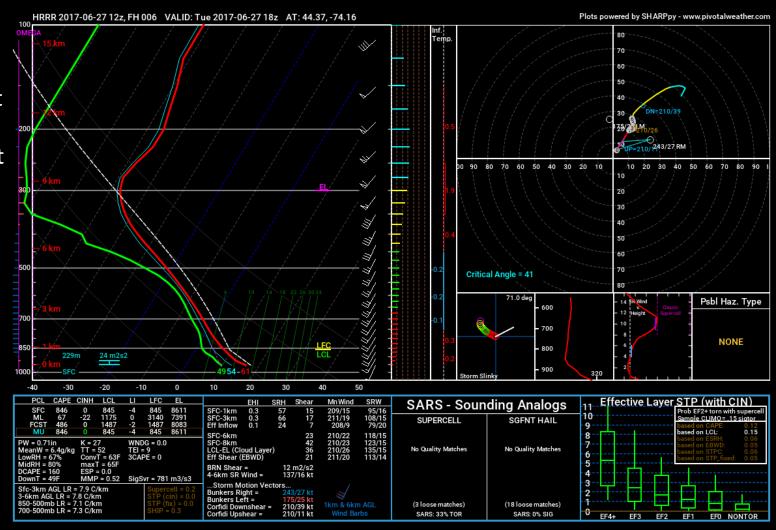


- Shown is surface based CAPE from the 12z
 HRRR run valid for 18z today
- The dark grey show weak cape <1000 J/kg
- This weak instability will allow for surfaced based convection to occur
- The cold front passage will help trigger the convection and cause thunder storm and precip to occur



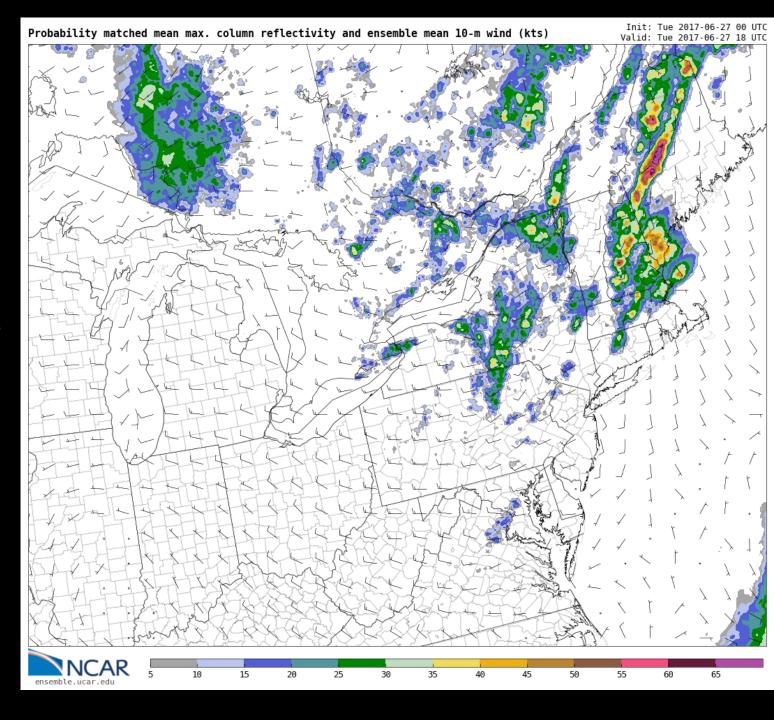


- Shown is HRRR model sounding valid for 18z at Saranac Lake airport
- The shown is the weak surface based cape that will aid in convection and precip throughout the day
- The LCLs and LFC are at about summit height of 850hPa

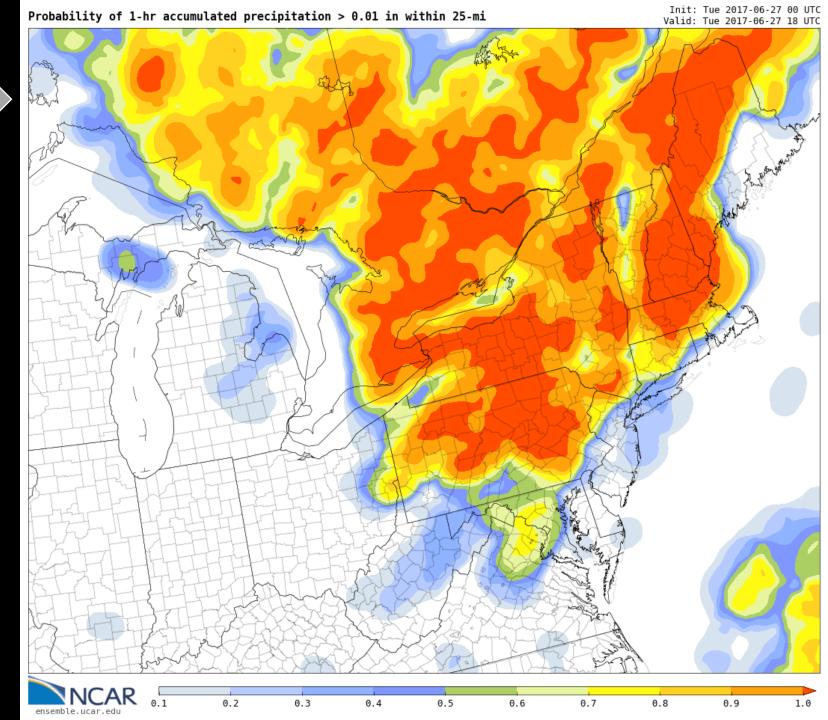




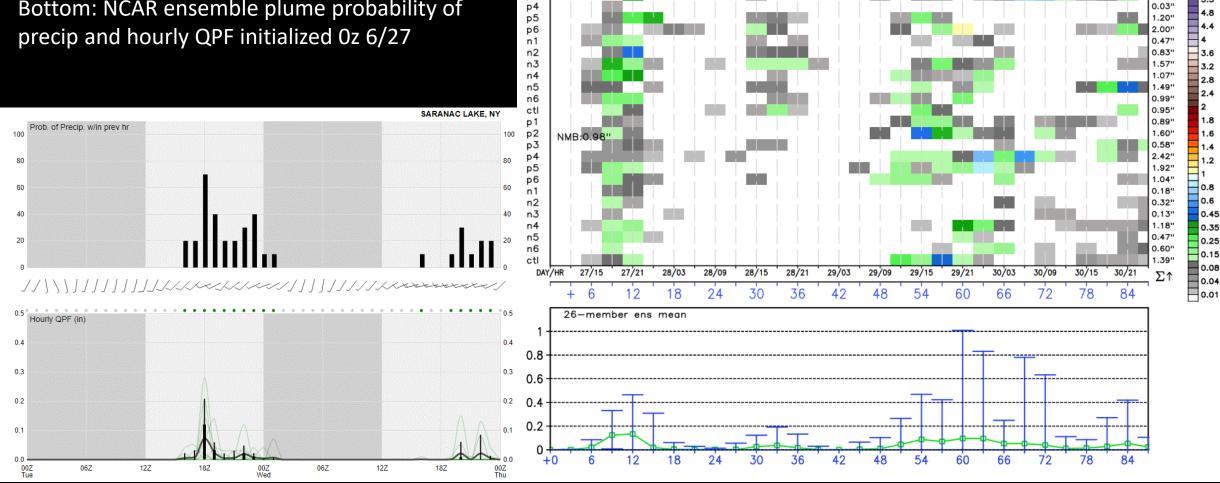
- Shown is the 18z max column reflectivity from the NCAR ensemble mean
- The precip will occur as the cold front moves through the area and forces convection along its periphery
- The rain is forecast to start 2 hours prior to this images and continue for an hour after



- Shown in NCAR ensemble 18z probability of accumulated precip >0.01" within 25 miles
- This shows that precip is very likely to occur within our area



- Right: NCEP SREF 26 member ensemble 6 hour precip initialized at 9z 6/27
- Bottom: NCAR ensemble plume probability of precip and hourly QPF initialized 0z 6/27



6-hourly Precipitation [inch]

p2 p3

NCEP SREF Ensemble Init: 2017062709

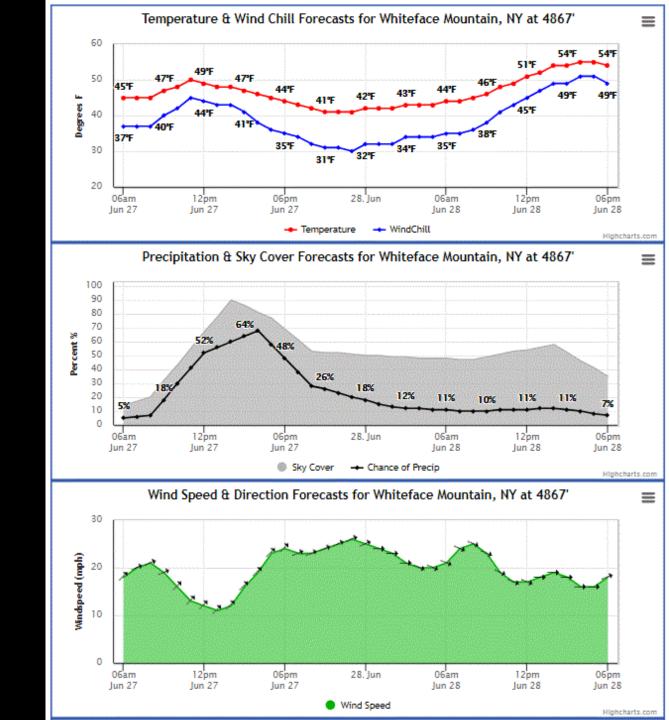
KSLK SARANAC LAKE, NY

KSLK: 44.39°N, 285.8°W

0.63" 2.38"



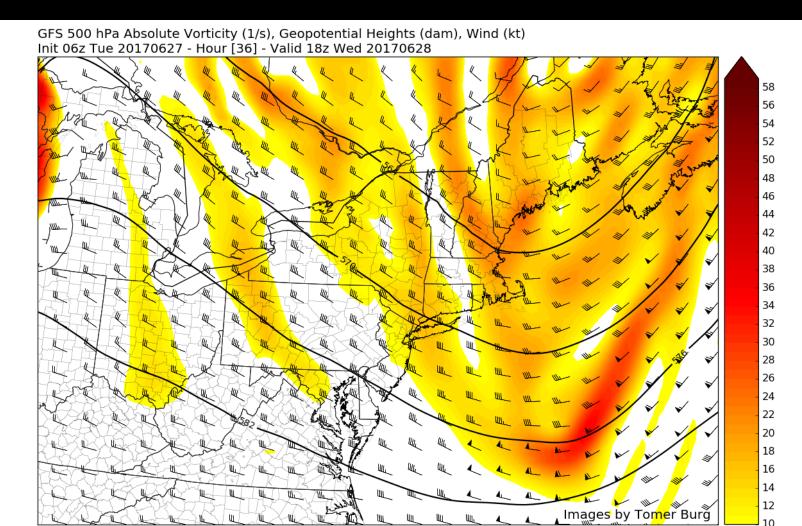
- Shown is the NWS Burlington Summit forecast for Whiteface
- Temps to be in the high 40's throughout the day today and mid 50s tomorrow
- Winds shift from SW to WNW following the frontal passage in the evening
- Rain likely in the evening transitioning to only a slight chance throughout tomorrow
- The summit may be in cloud tonight during the rain and in the early morning as the surface warms



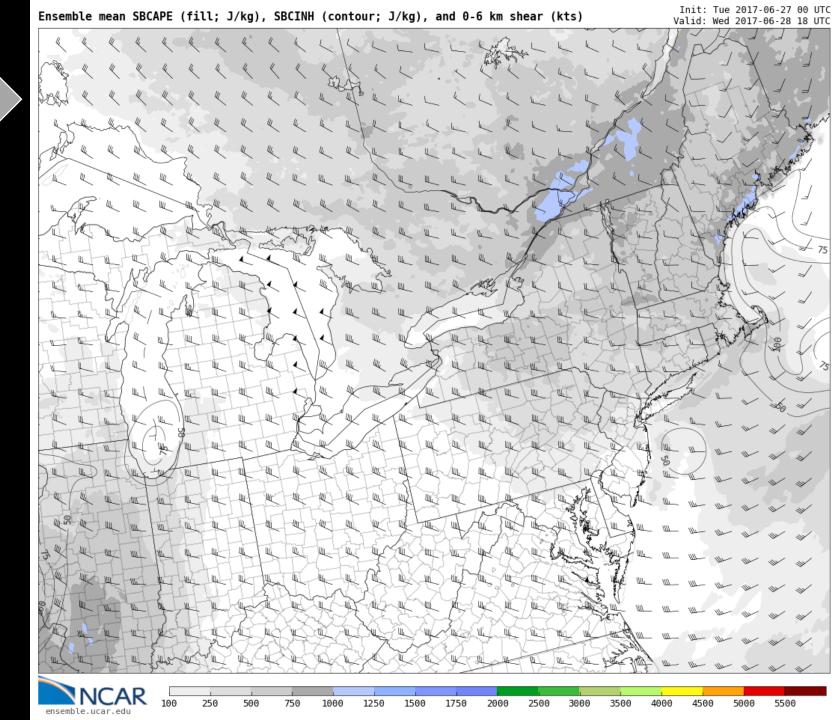
Today

- The upper level trough will start to move out of our area
- Upstream of the trough associated with the jet strips of locally maximum vorticity will develop
- Advection of this vorticity will create upward vertical motion forcing precip later in the day
- Along with the vorticity forcing there will be weak CAPE allowing for convection
- Clouds will likely form early in the morning with favorable LCLs but will quickly rise above the summit with surface warming from the sun

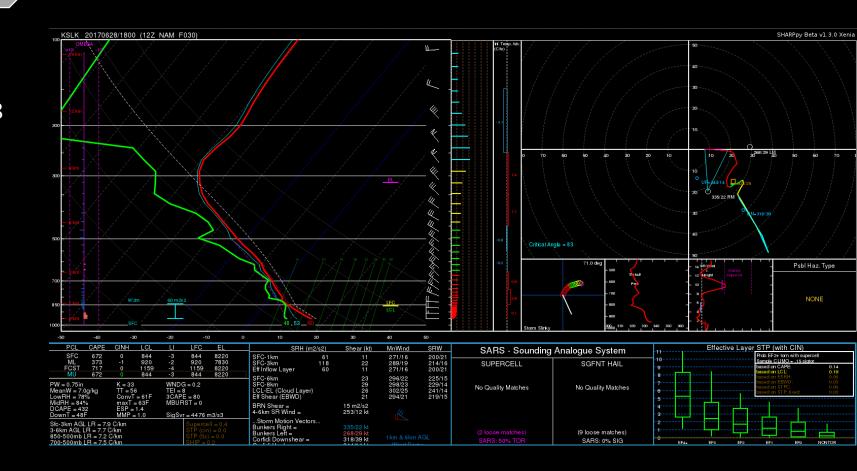
- Shown in 6z GFS run valid for 18z 6/28 500hPa heights, winds, and vorticity filled
- The advection of vorticity will create upward vertical motion helping force precip



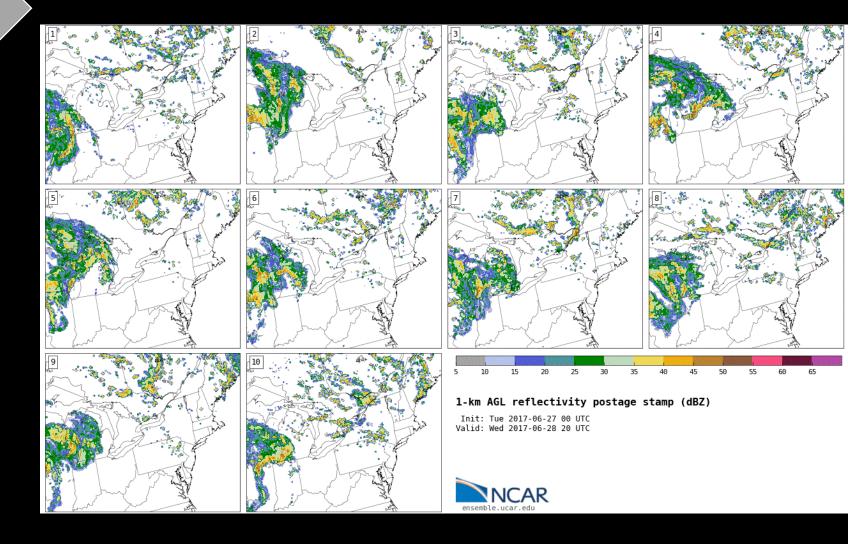
- Shown is surface based CAPE from the NCAR ensemble valid for 18z tomorrow
- The light grey show weak cape <750
 J/kg
- This weak instability may allow for surfaced based convection to occur
- With the added upward motion associated with upper levels the convection may form into localized precipitating storms



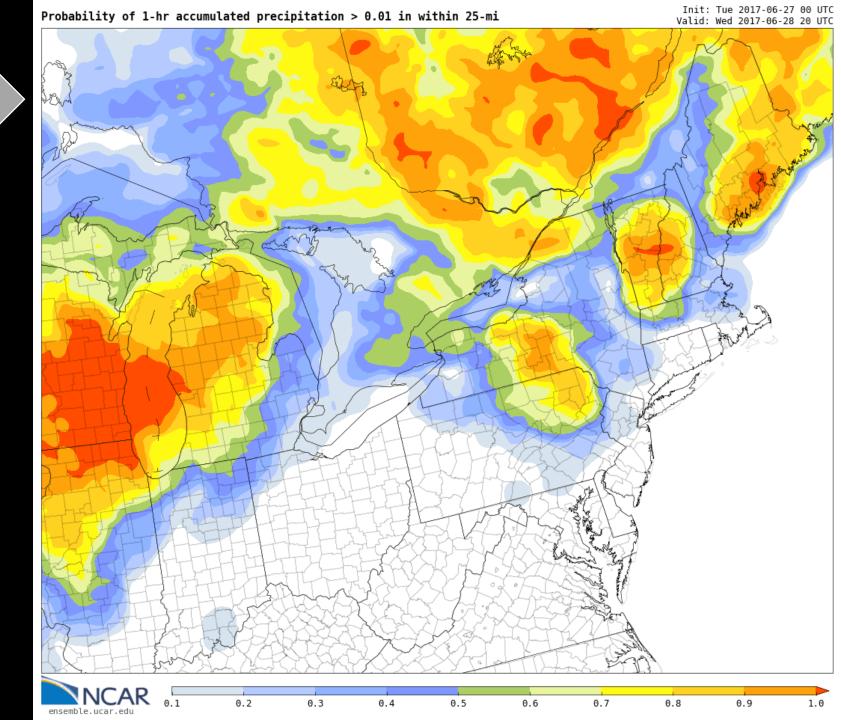
- Shown is NAM model sounding initialized 12z today valid for 18z 6/28 at Saranac Lake Airport
- You can see the weak instability that will contribute to the precip in the afternoon



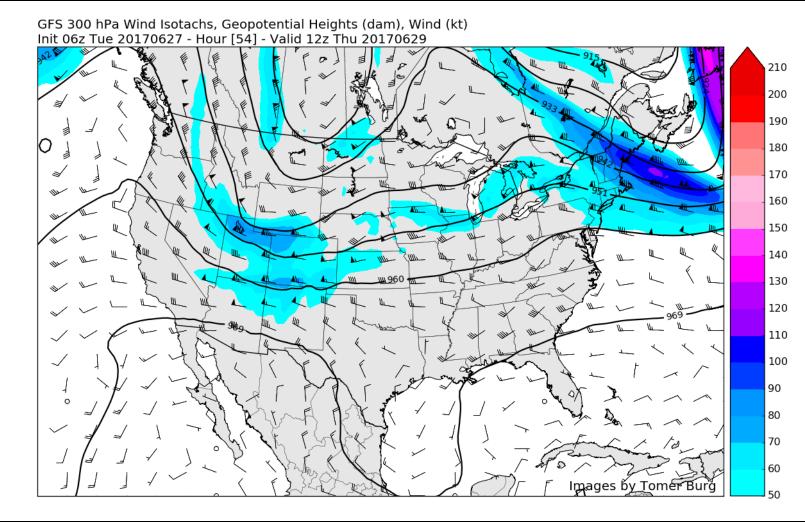
- Shown is 1km AGL reflectivity postage stamps from the NCAR ensemble valid for 20z tomorrow
- There is large variability through the member on both timing and severity



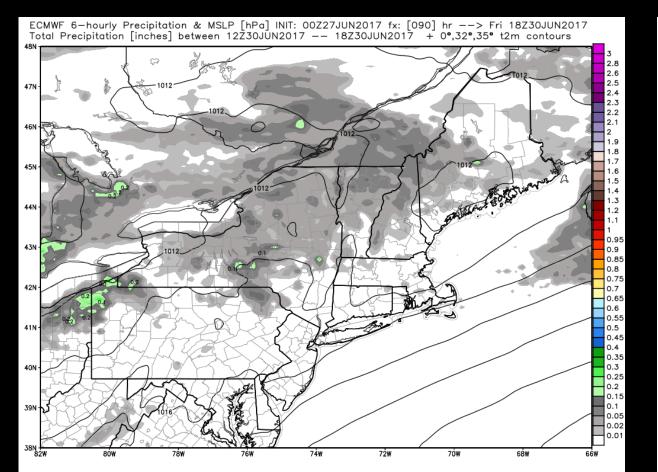
- Shown in NCAR ensemble 20z probability of accumulated precip >0.01" within 25 miles, same time as the postage stamps
- This shows only a chance of precip near whiteface mountain
- Probability increase slight for the next2 hours following this

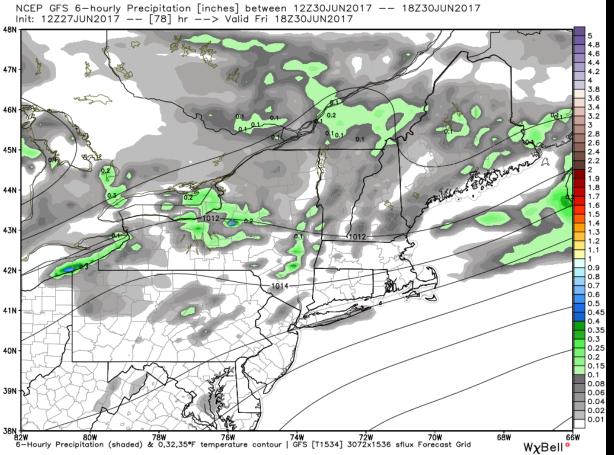


- Shown in 300hPa heights, winds, and isotachs filled from the GFS initialized 6z 6/27 valid for 12z 6/29
- During the day Thursday will be dry due to an area of high pressure
- A low pressure system will move into the area Thursday evening as the upper level ridge move to the east

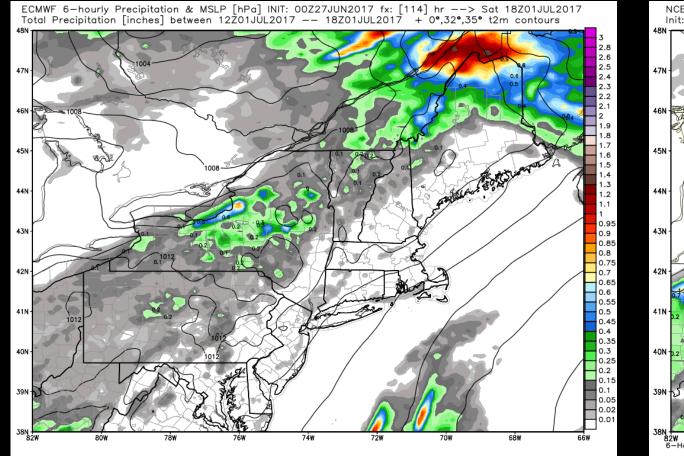


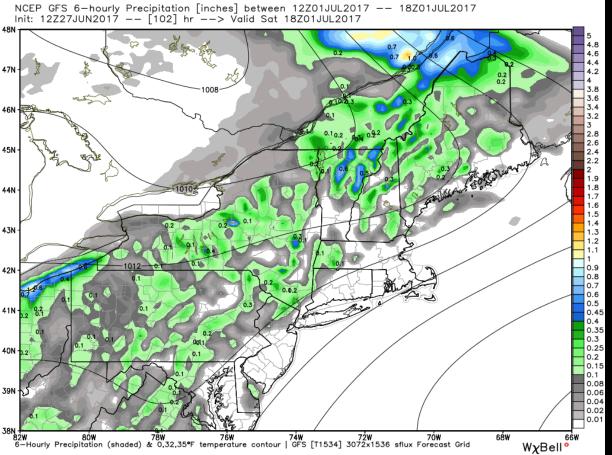
- Bottom left: ECMWF 6 hour precip valid for 18z 6/30
- Bottom right: GFS 6 hour precip valid for 18z 6/30
- Rain will be likely to occur through Friday morning and into the afternoon





- Bottom left: ECMWF 6 hour precip valid for 18z 6/31
- Bottom right: GFS 6 hour precip valid for 18z 6/31
- Again rain will be likely to occur through Saturday morning and into the afternoon





- Shown in 300hPa heights, winds, and isotachs filled from the GFS initialized 6z 6/27 valid for 12z 6/29
- During the day Thursday will be dry due to an area of high pressure
- A low pressure system will move into the area Thursday evening as the upper level ridge move to the east

