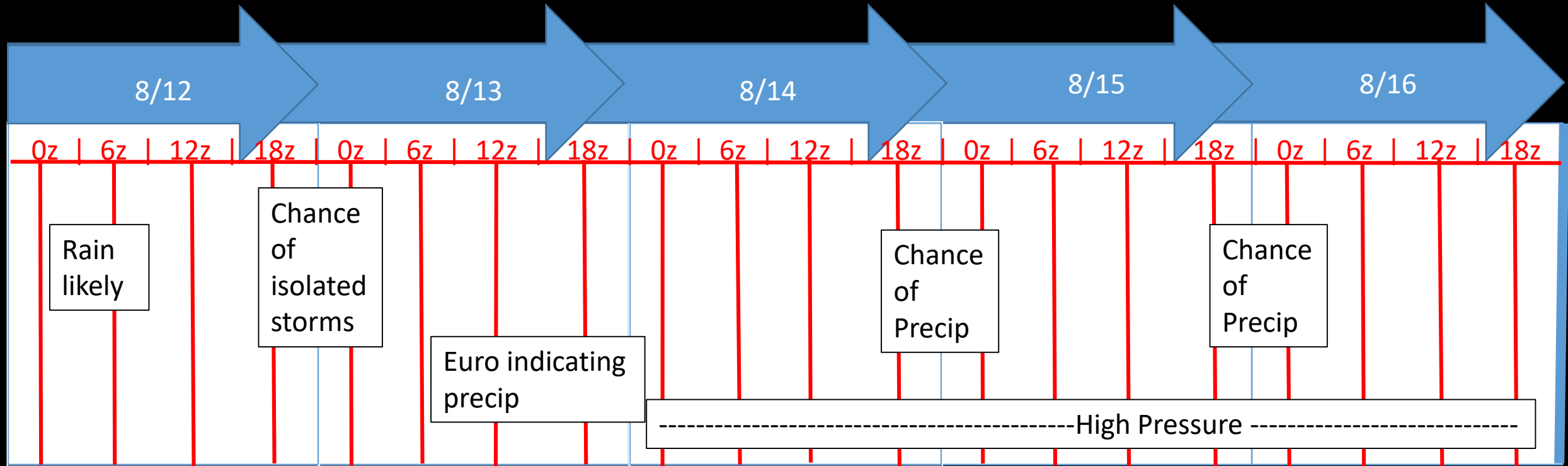


Forecast for 8/12-8/16

Forecaster: Matthew Brewer

Forecast made: 8/11/2017

Outlook



Day -1

Day 0

Day 1

Day 2

Day 3-5

Overview for Day 8/12

- NCAR ensemble and 3km NAM are forecasting precip to occur throughout the early morning tapering off at 10z
- The Euro's forecast shows precip will persist into the morning
- There will also be a chance of isolated thunderstorms/ showers throughout the after
- Winds at the summit will start the day off from the SW transitioning to W LCL's will be favorable early in the day due to high dew points from rain the previous night

Day -1

Day 0

Day 1

Day 2

Day 3-5

Overview for 8/13

- The GFS, 3km NAM, and NWS Burlington predict a mostly dry day with possible scatter showers earlier in the day
- The Euro is forecasting precip for the morning and into the early afternoon
- LCL's in the morning will likely be below Whiteface summit

Day -1

Day 0

Day 1

Day 2

Day 3-5

Overview for Day 3-5

- High pressure system will move into the area Monday bringing generally drier weather
- However chance of precip cannot be completely ruled out Monday and Tuesday evening

Day -1

Day 0

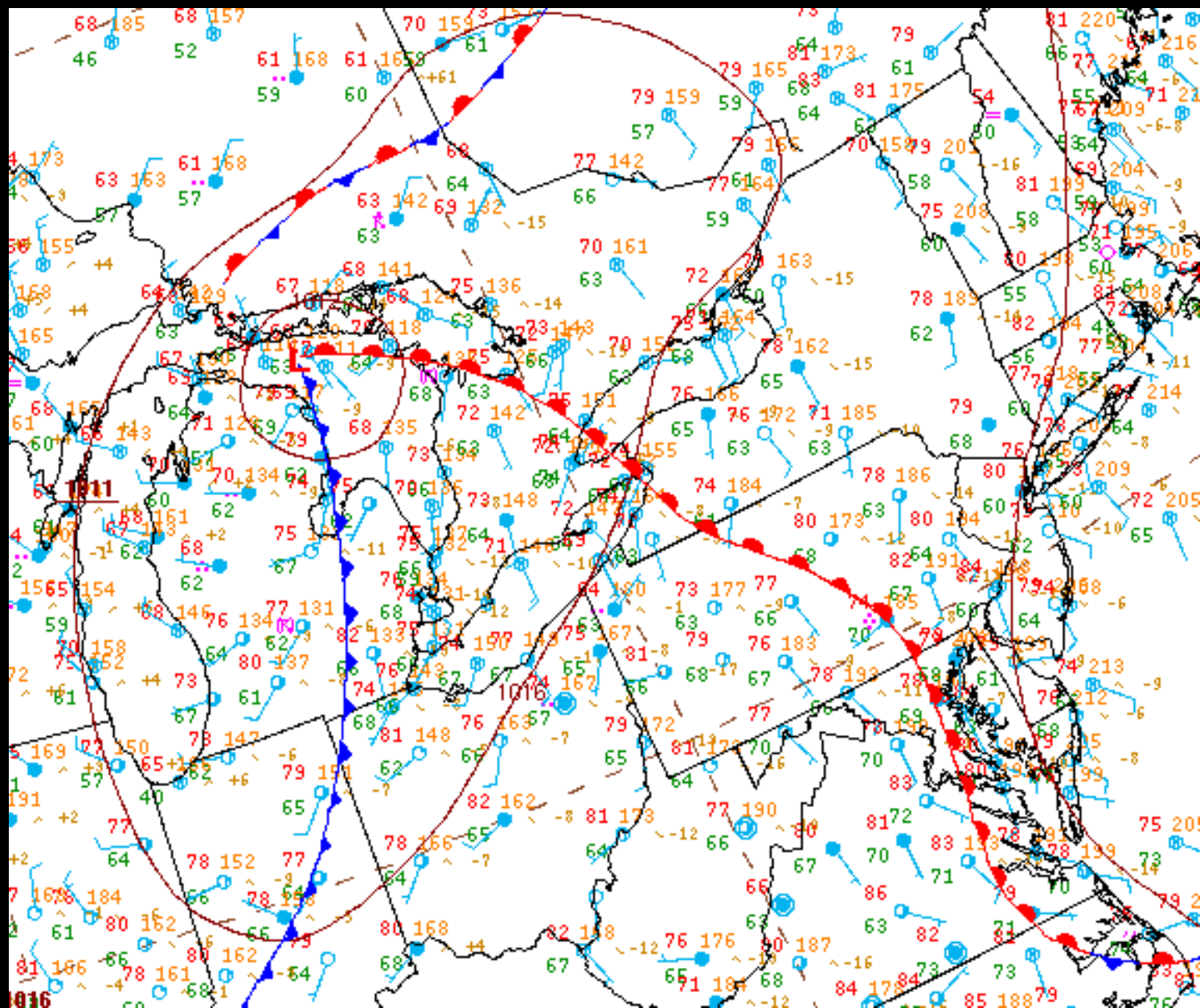
Day 1

Day 2

Day 3-5

Current Surface Analysis

- Shown is the NOAA WPC surface analysis from 18z 8/ 11/2017
- The warm front on this map will be the forcing for the precip forecasted tonight



Day -1

Day 0

Day 1

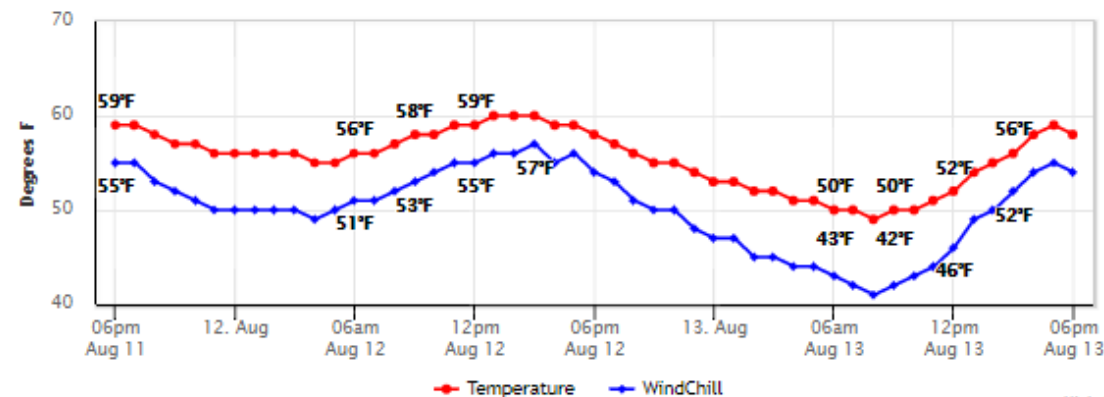
Day 2

Day 3-5

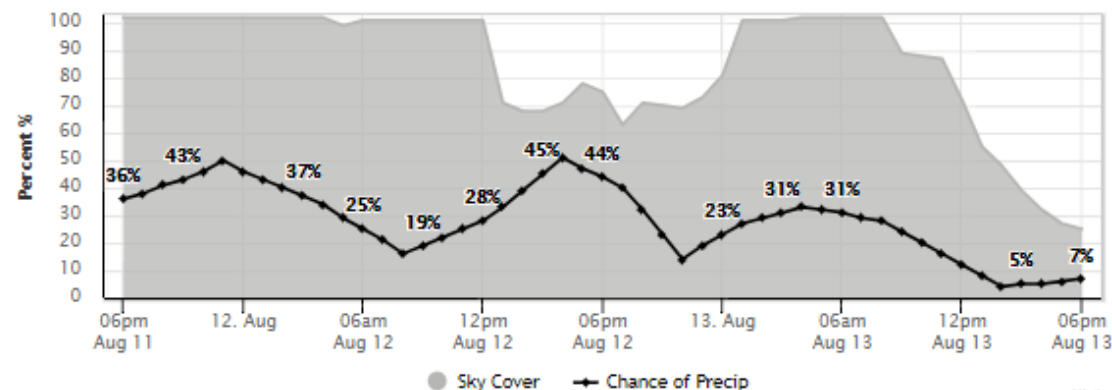
Summit forecast

- Shown is the NWS Burlington's summit forecast
- This forecast shows that Saturday and Sunday morning the summit will likely be in cloud
- The greatest chance of rain will be associated with the spotty thunderstorms/shower in the afternoon

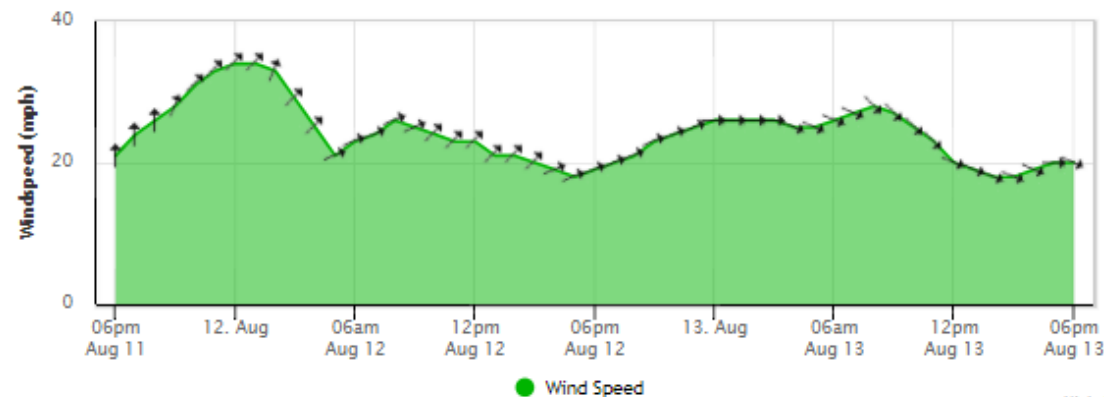
Temperature & Wind Chill Forecasts for Whiteface Mountain, NY at 4867'



Precipitation & Sky Cover Forecasts for Whiteface Mountain, NY at 4867'



Wind Speed & Direction Forecasts for Whiteface Mountain, NY at 4867'



Day -1

Day 0

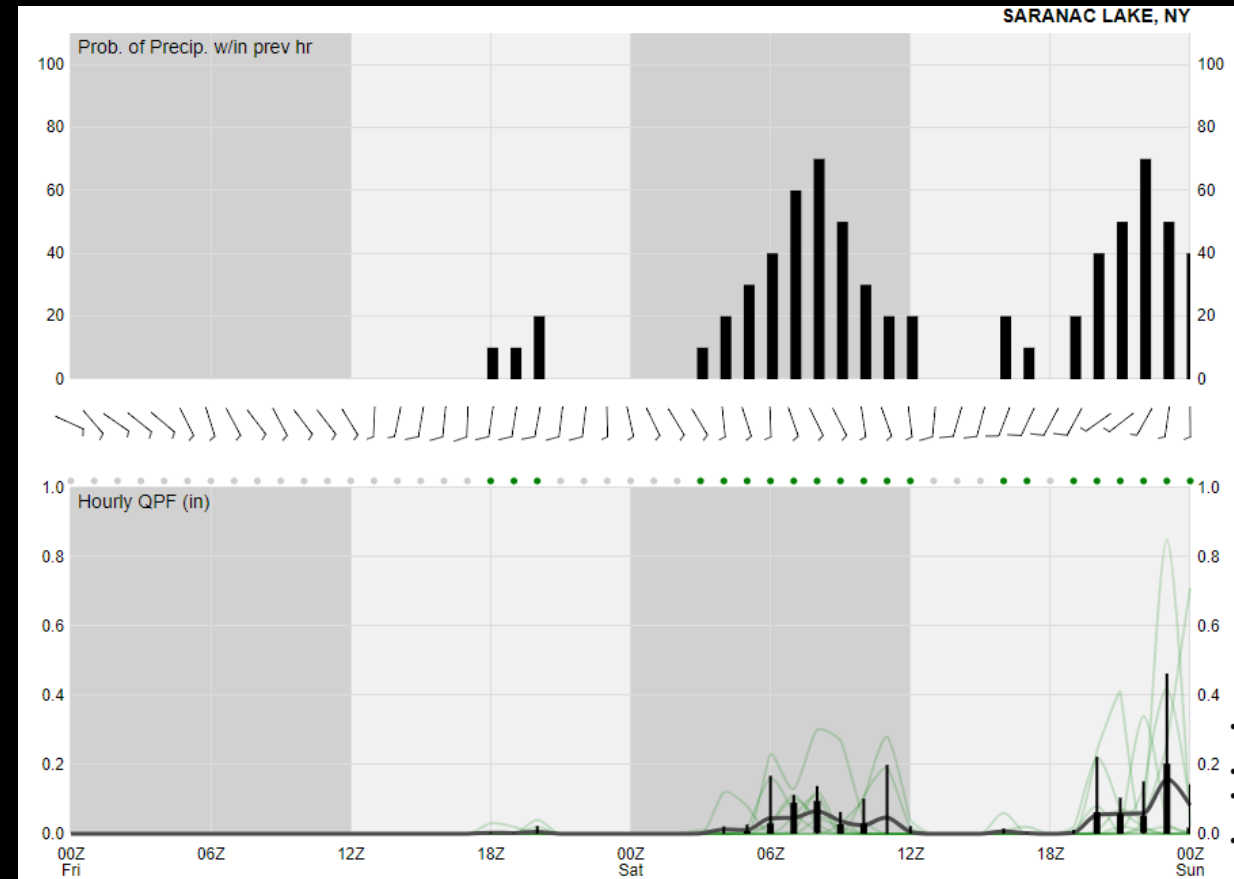
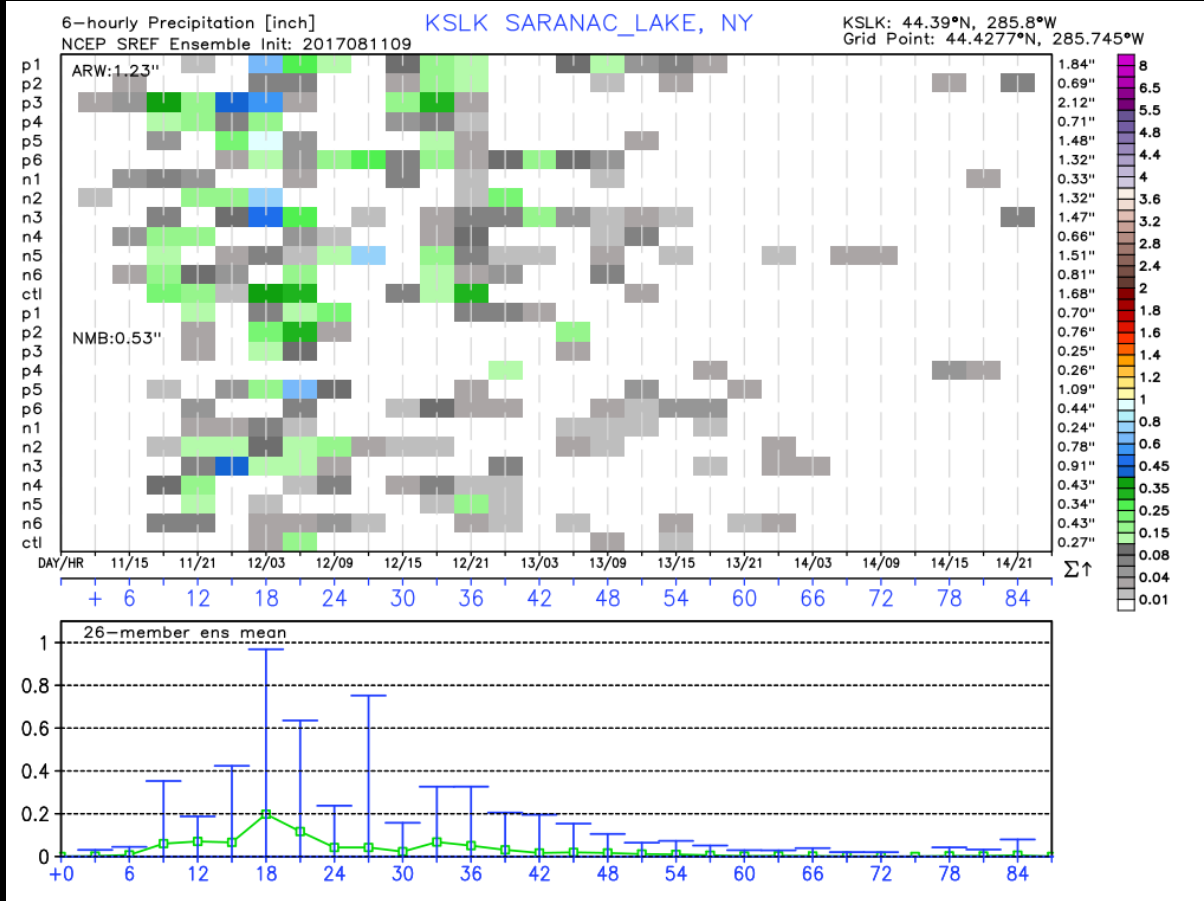
Day 1

Day 2

Day 3-5

Precip Meteograms

- Left: NCEP SREF 9z 8/11 run showing 6 hourly precip
- Right: NCAR ensemble 0z 7/11 run showing probability of precip and hourly QPF
- Both models indicate a chance of precip for tomorrow with highest chance before 12z on the 12th and after 18z on the same day



Day -1

Day 0

Day 1

Day 2

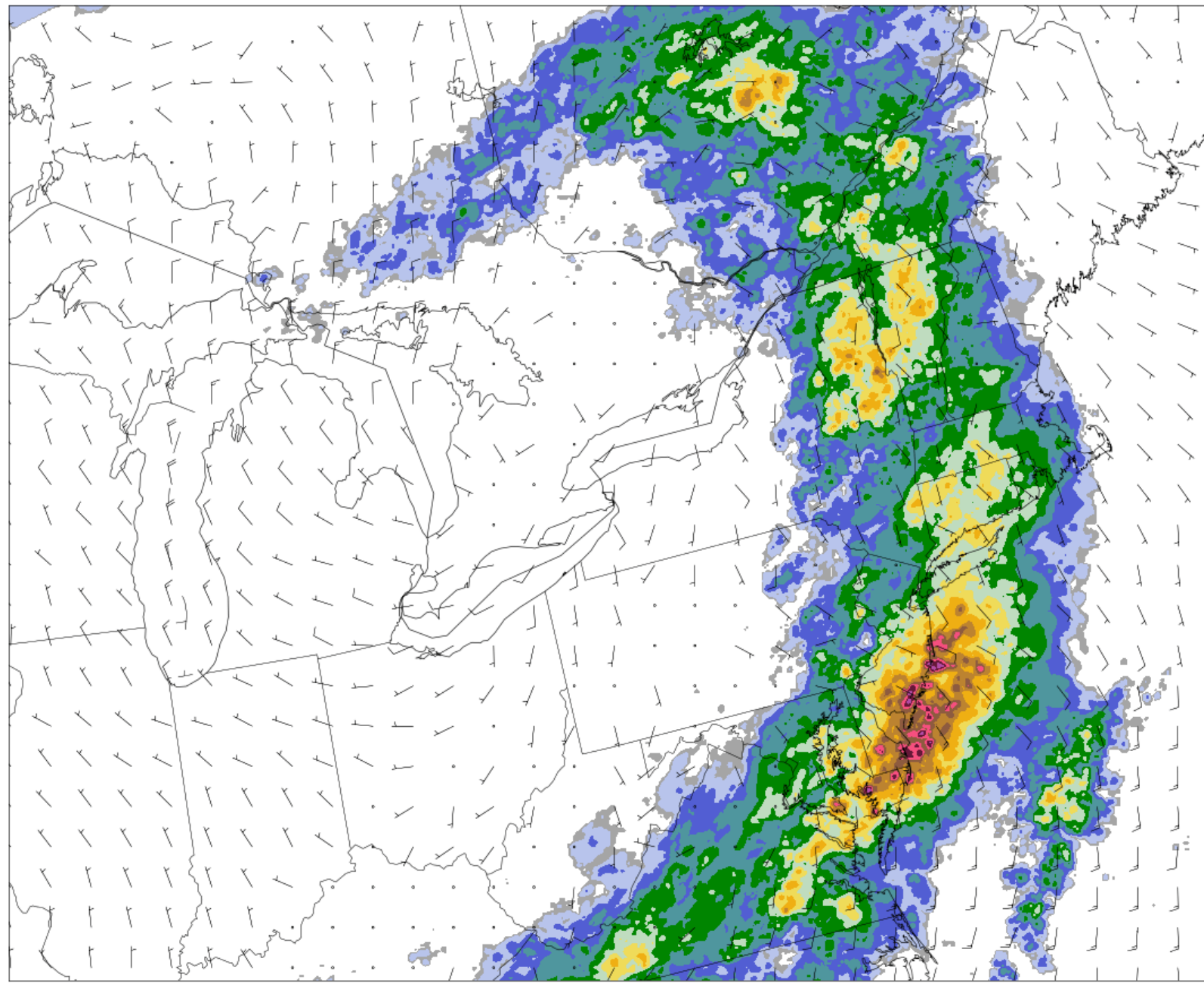
Day 3-5

Probability matched mean max. column reflectivity and ensemble mean 10-m wind (kts)

Init: Fri 2017-08-11 00 UTC
Valid: Sat 2017-08-12 08 UTC

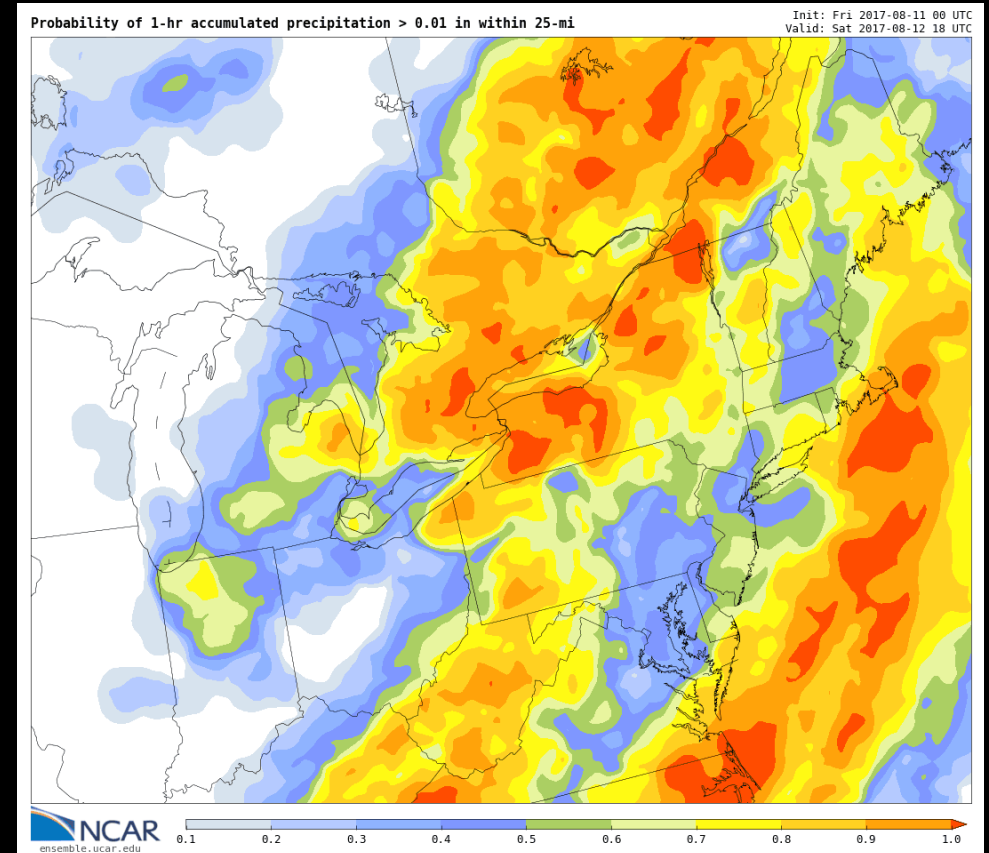
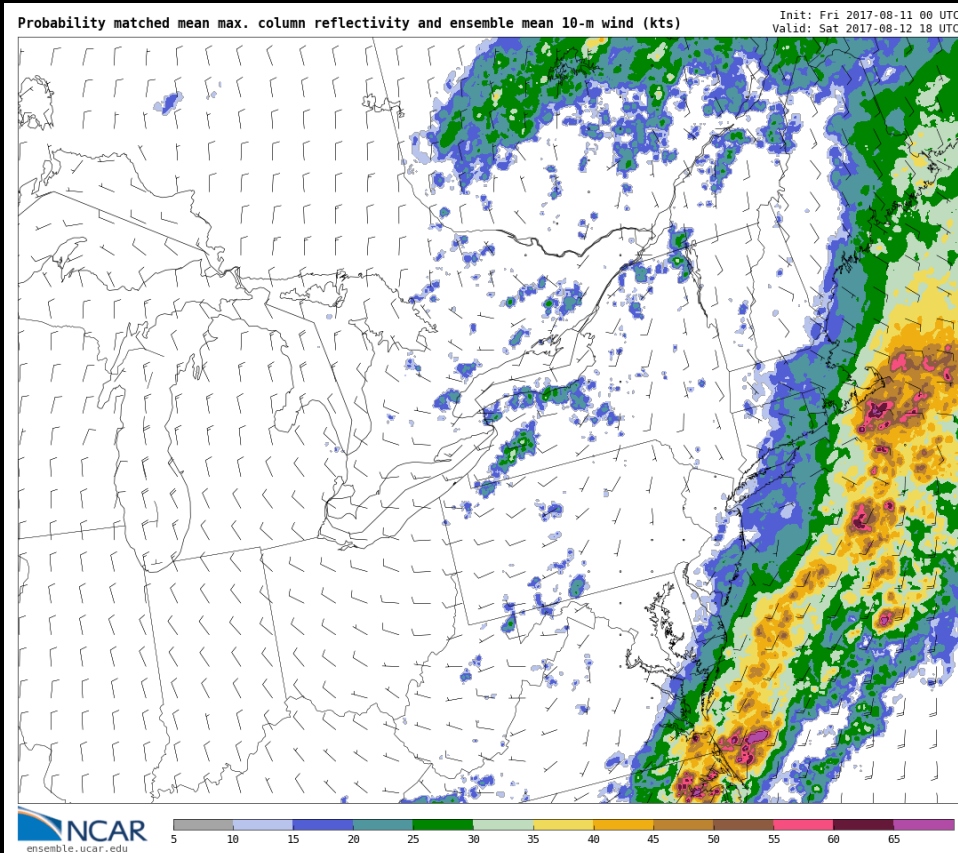
Synoptic Forcing

- Shown is the 0z NCAR ensemble probability matched mean max column reflectivity valid for 8z 8/12
- This show that there is a very high chance of precip throughout the night



Synoptic Forcing

- Left: 0z 8/11 NCAR ensemble run valid for 18z 8/12 NCAR ensemble probability matched mean max column reflectivity
- Right: 0z 8/11 NCAR ensemble run valid for 18z 8/12 showing probability of >0.01 in accumulated precip within 25 miles
- These products show that there is a possibility for isolated shower throughout the afternoon on the 12th



Day -1

Day 0

Day 1

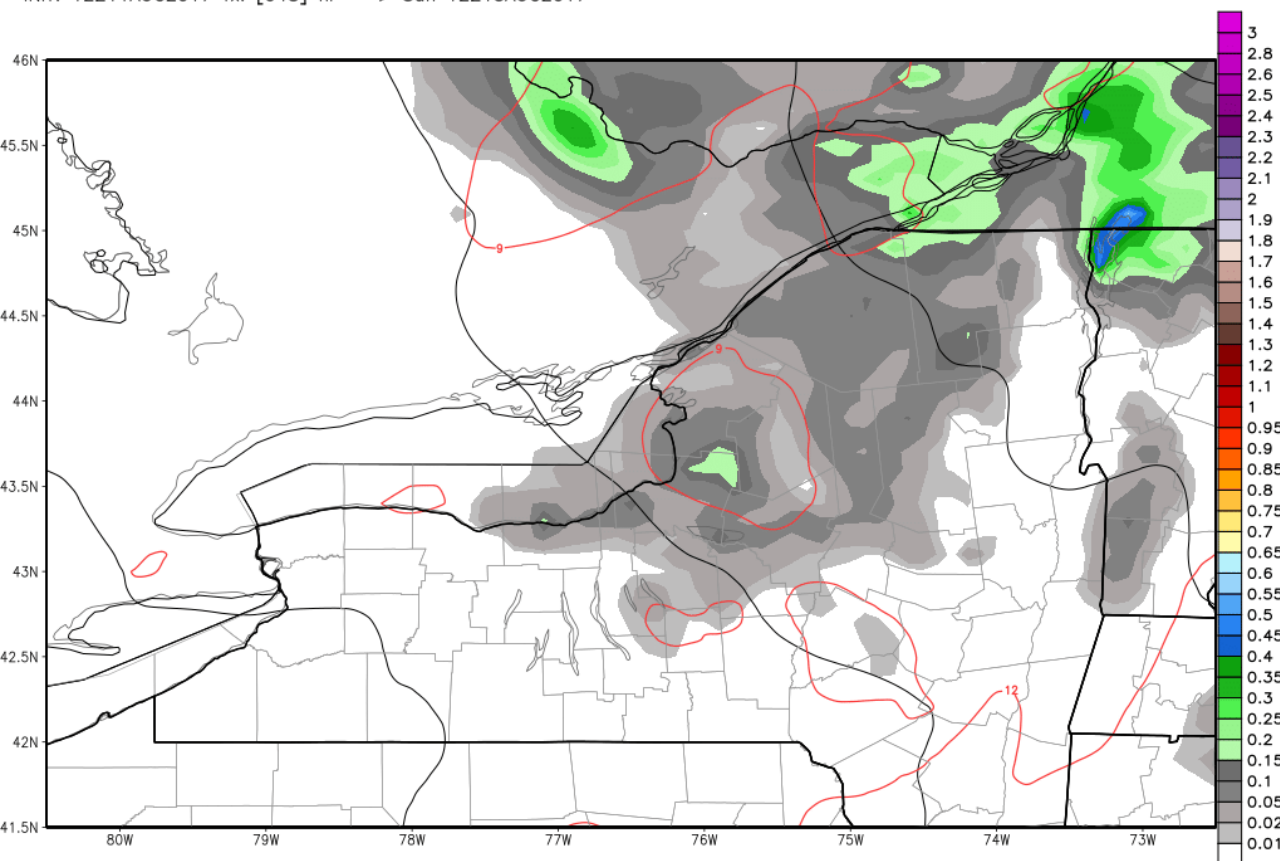
Day 2

Day 3-5

Synoptic Forcing

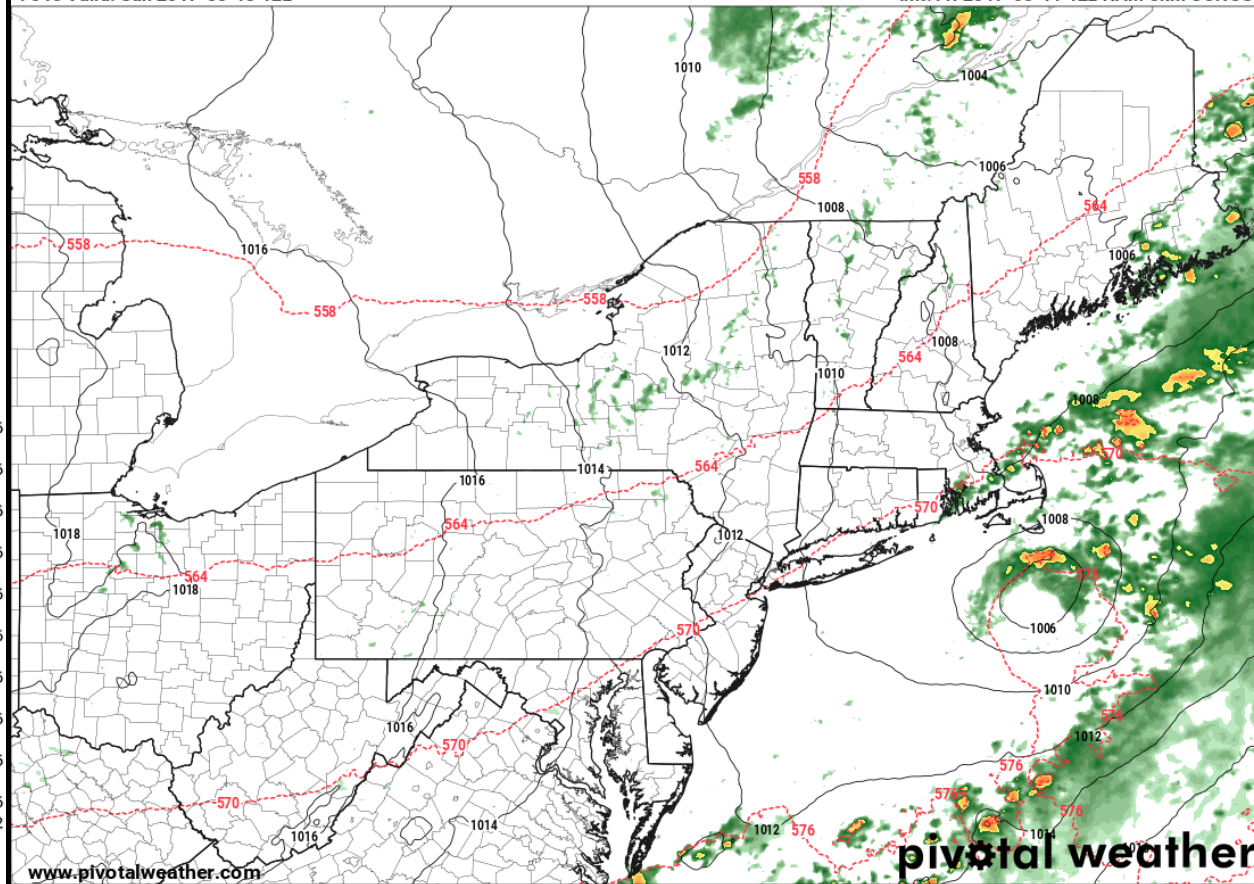
- Right: 12z 8/11 3km NAM Composite Reflectivity valid for 12z 8/13
- Left: 12z 8/11 ECMWF 6hr precip and MSLP valid for 12z 8/13
- The two models show variability in the forecast with the ECMWF being more wet while the NAM is only showing spotty shower

ECMWF 6-hourly Precipitation [inches] between 06Z13AUG2017 -- 12Z13AUG2017 & MSLP [hPa] & 850 hPa Temp [°C]
INIT: 12Z11AUG2017 fx: [048] hr --> Sun 12Z13AUG2017



Composite Reflectivity (dBZ), Type, 1000-500 mb Thickness (dam)
F048 Valid: Sun 2017-08-13 12z

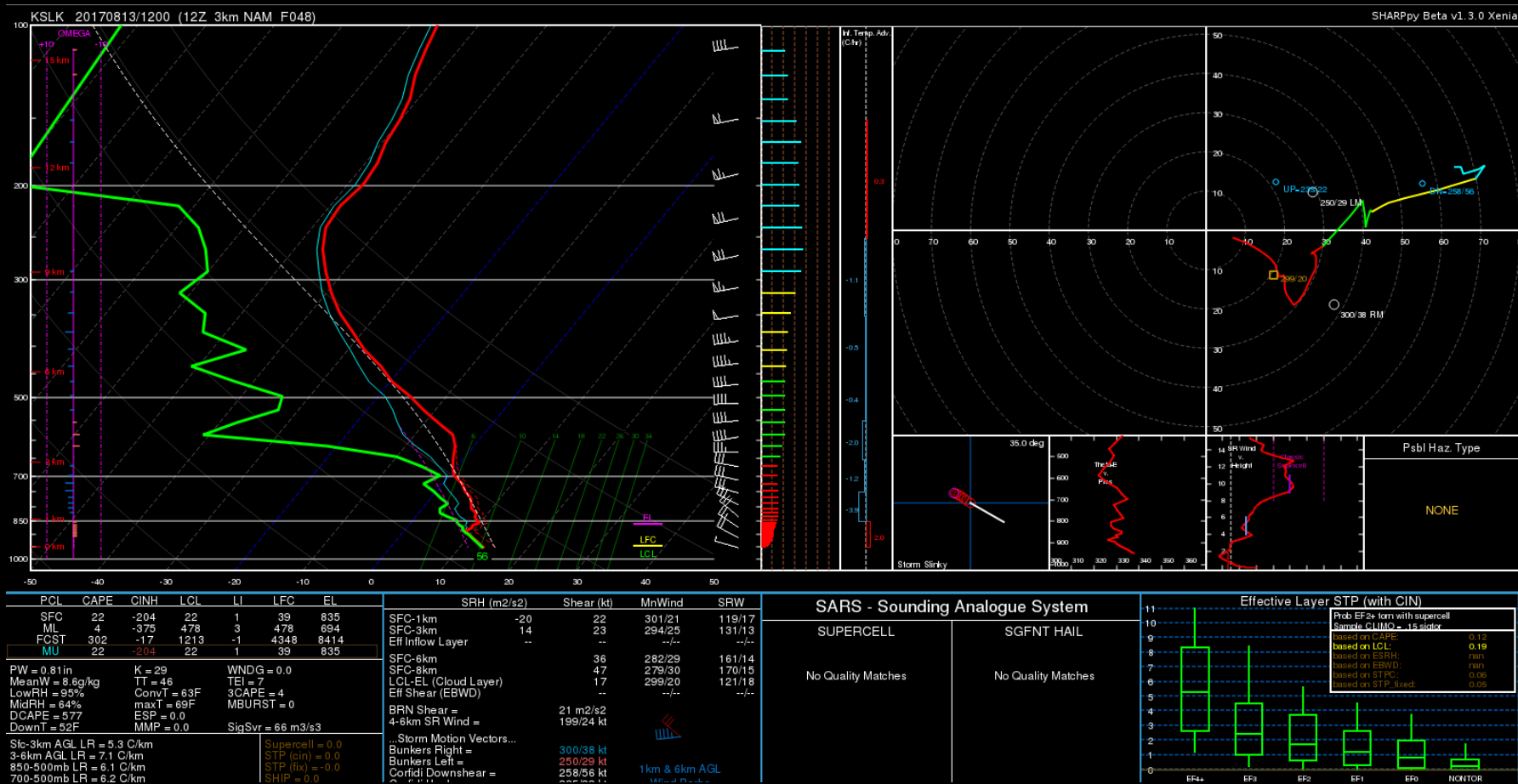
Init: Fri 2017-08-11 12z NAM 3km CONUS



Rain: 10 20 30 40 50 Snow: 10 20 30 40 50 Frzr: 10 20 30 40 50 Sleet: 10 20 30 40 50

Synoptic Forcing

- Shown is the 12z 8/11 3km NAM sounding at KSLK valid for 12z 8/13
- The LCL's are forecasted to be well below the summit of the Whiteface due to the high dew points associated with the precip from the previous day



Note: include more soundings zoomed in on below 500hPa

