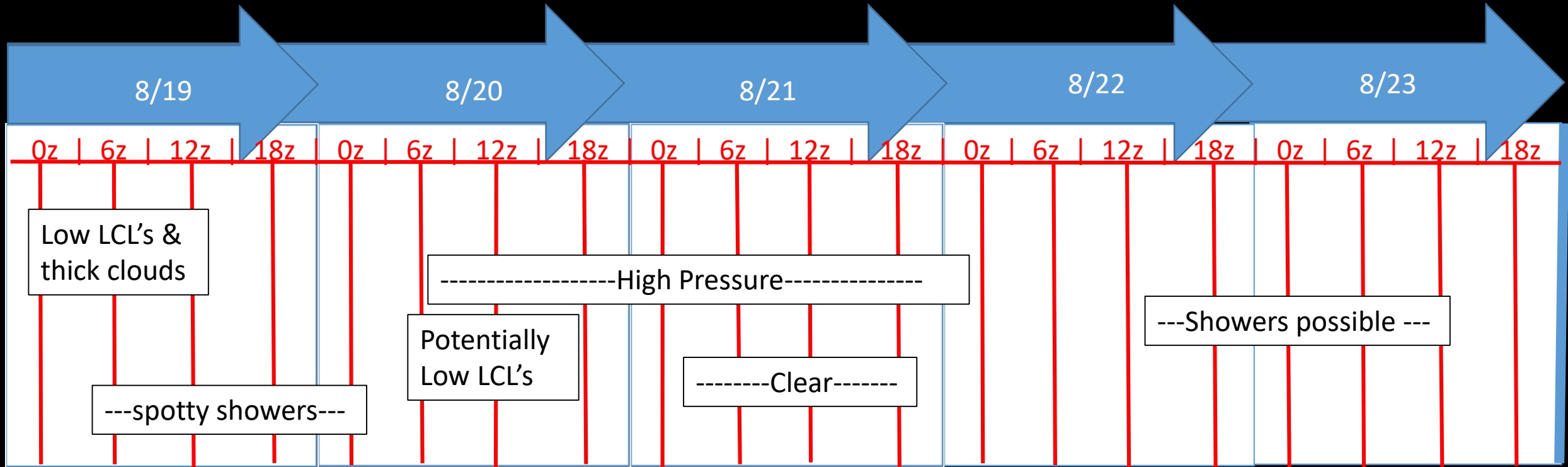


Forecast for 8/19-8/23

Forecaster: Matthew Brewer

Forecast made: 8/18/2017

Outlook



Day -1

Day 0

Day 1

Day 2

Day 3-5

Overview for Day 8/19

- Moist lower troposphere good for low LCL's and thick clouds
- Slight chance of precip forced by weak vorticity advection aloft creating upward vertical motion
- Winds WSW
- Likely ideal day

Day -1

Day 0

Day 1

Day 2

Day 3-5

Overview for 8/20

- Potentially low LCL
- Dry layer aloft may prevent cloud formation
- Dry and mostly sunny as high move into the area

Day -1

Day 0

Day 1

Day 2

Day 3-5

Overview for Day 3-5

- Monday- High will be located directly over head, creating dry and clear weather good for solar eclipse viewing
- Tuesday- Rain possible later in the day
- Wednesday- Rain possible/low LCL's

Day -1

Day 0

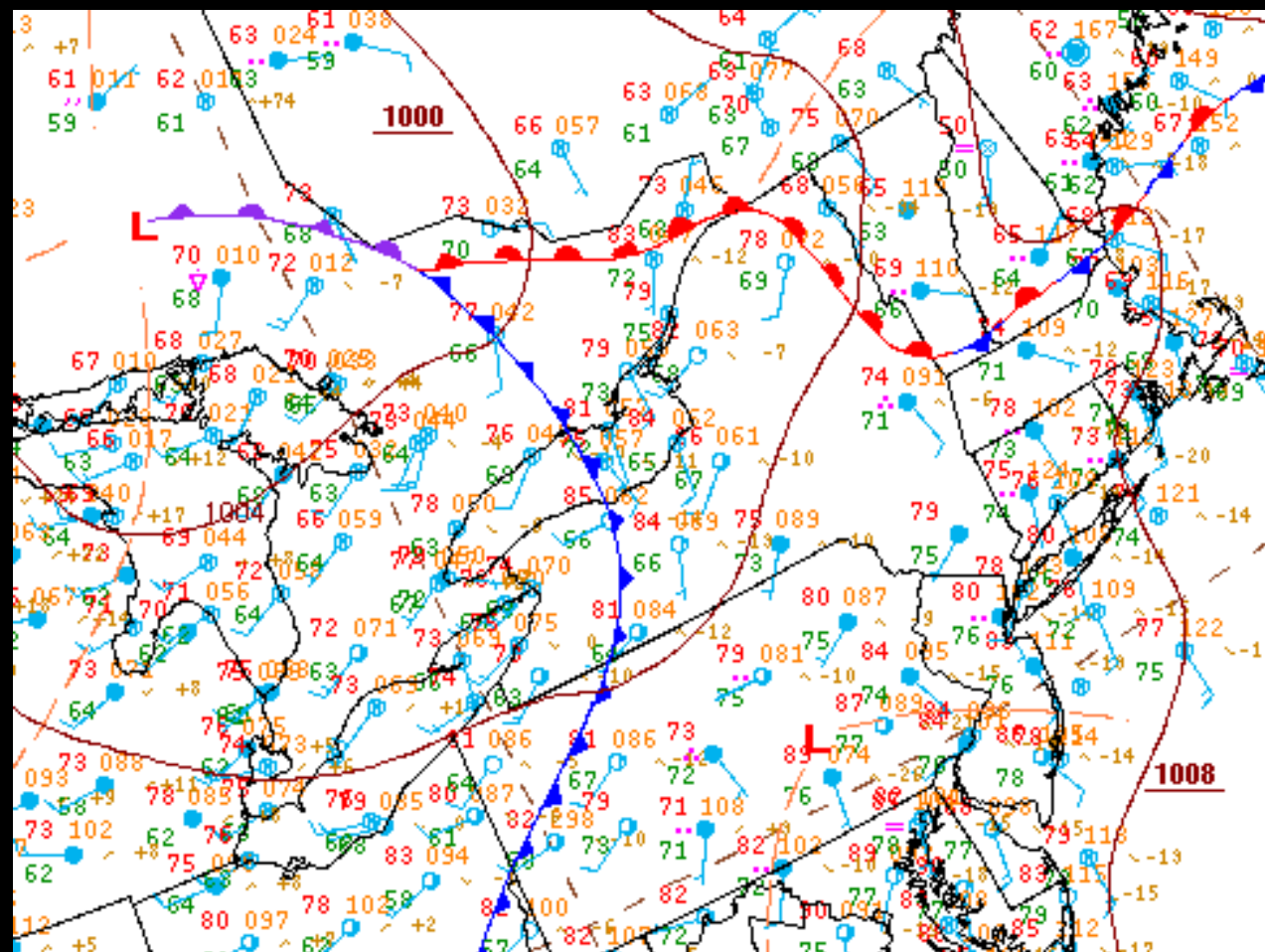
Day 1

Day 2

Day 3-5

Current Surface Analysis

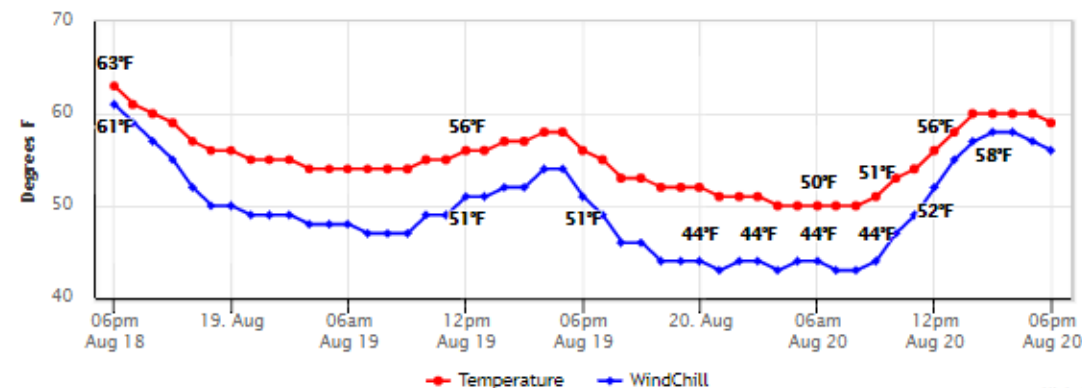
- Shown is the NOAA WPC surface analysis from 18z 8/18/2017
- The warm front that moved through our area this morning associated with the precip
- The cold front will likely move through the area this evening possibly bring some showers along the front



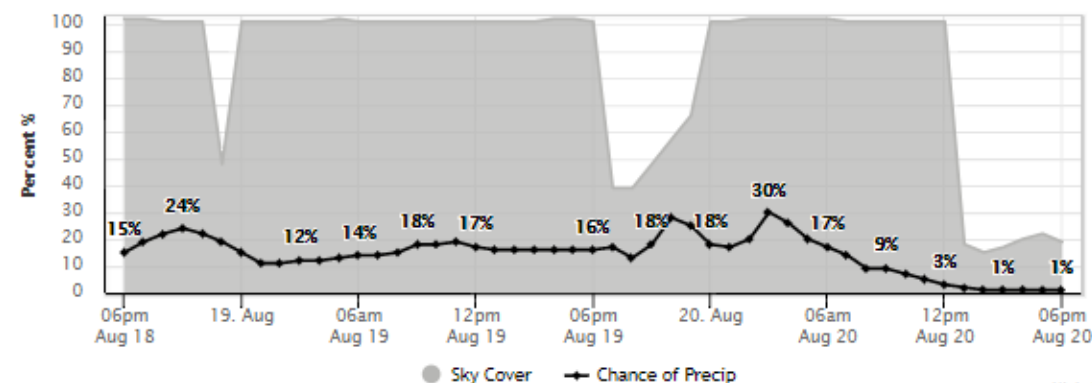
Summit forecast

- Shown is the NWS Burlington's summit forecast
- The forecast show the chance precip tomorrow with the highest chance in the morning
- Winds will shift from NW to S as the low move into the area

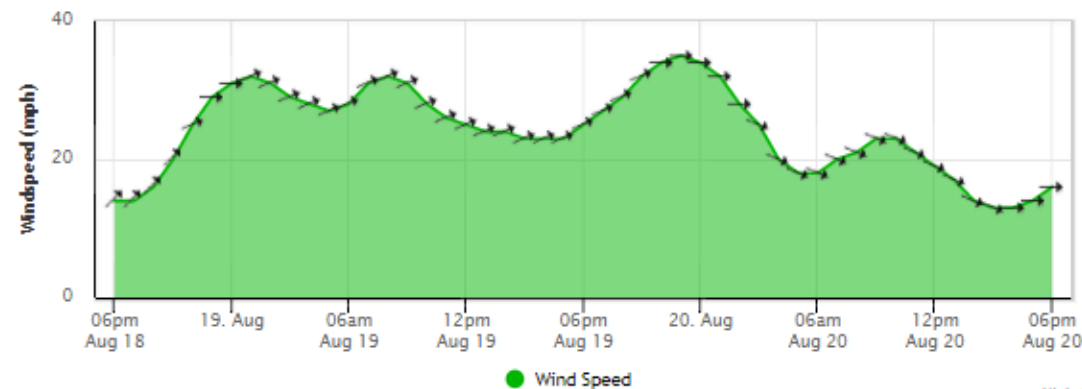
Temperature & Wind Chill Forecasts for Whiteface Mountain, NY at 4867'



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



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



Day -1

Day 0

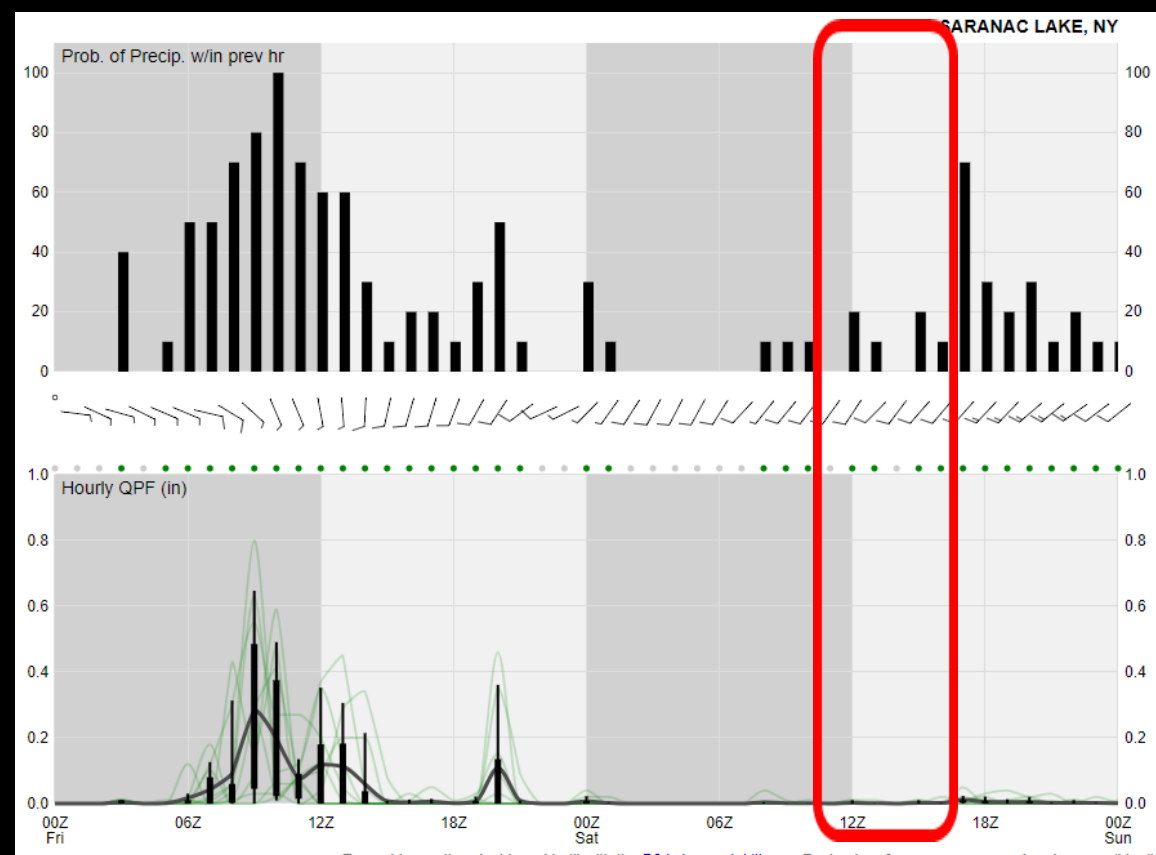
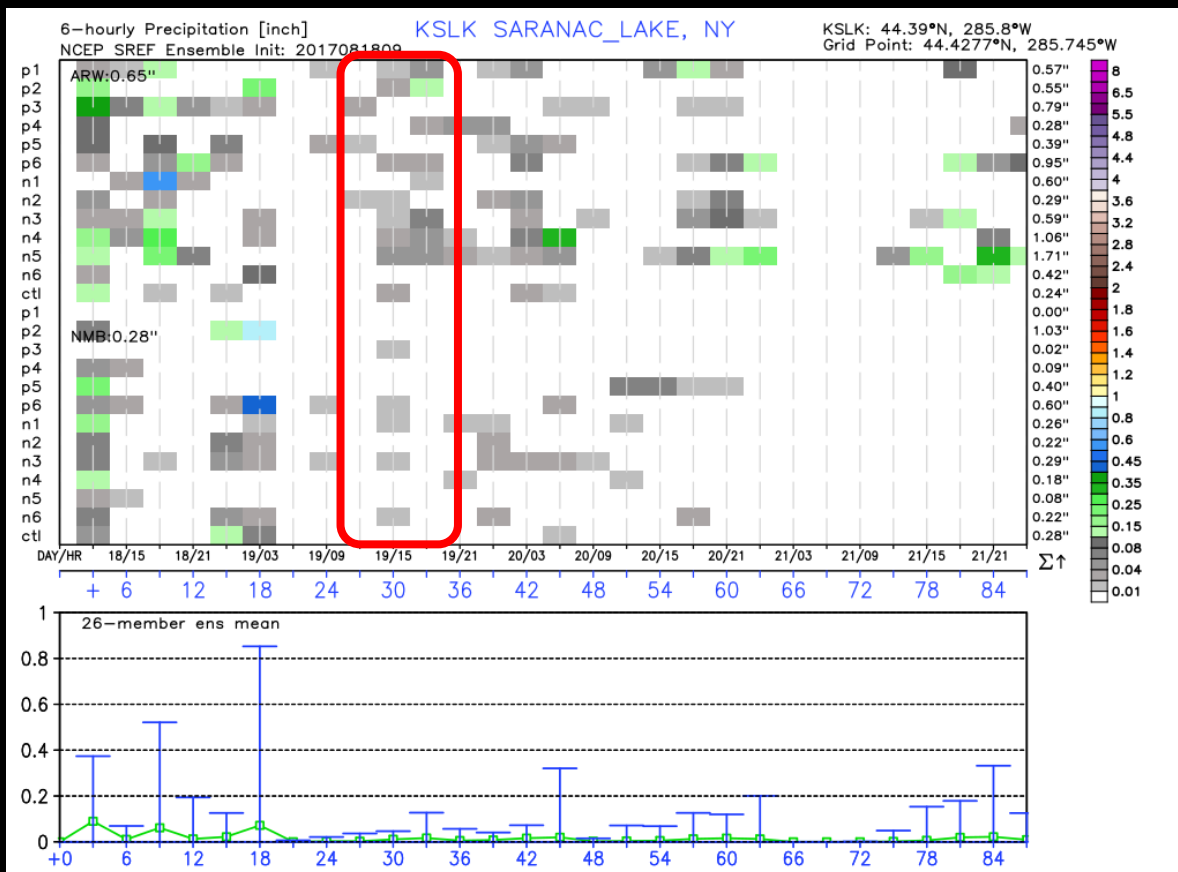
Day 1

Day 2

Day 3-5

Precip Meteograms

- Left: NCEP SREF 9z 8/18 run showing 6 hourly precip
- Right: NCAR ensemble 0z 8/18 run showing probability of precip and hourly QPF
- Both models forecast the rest the precip for today tonight
- Additionally both models are only slight chance of rain with very light accumulation for the morning



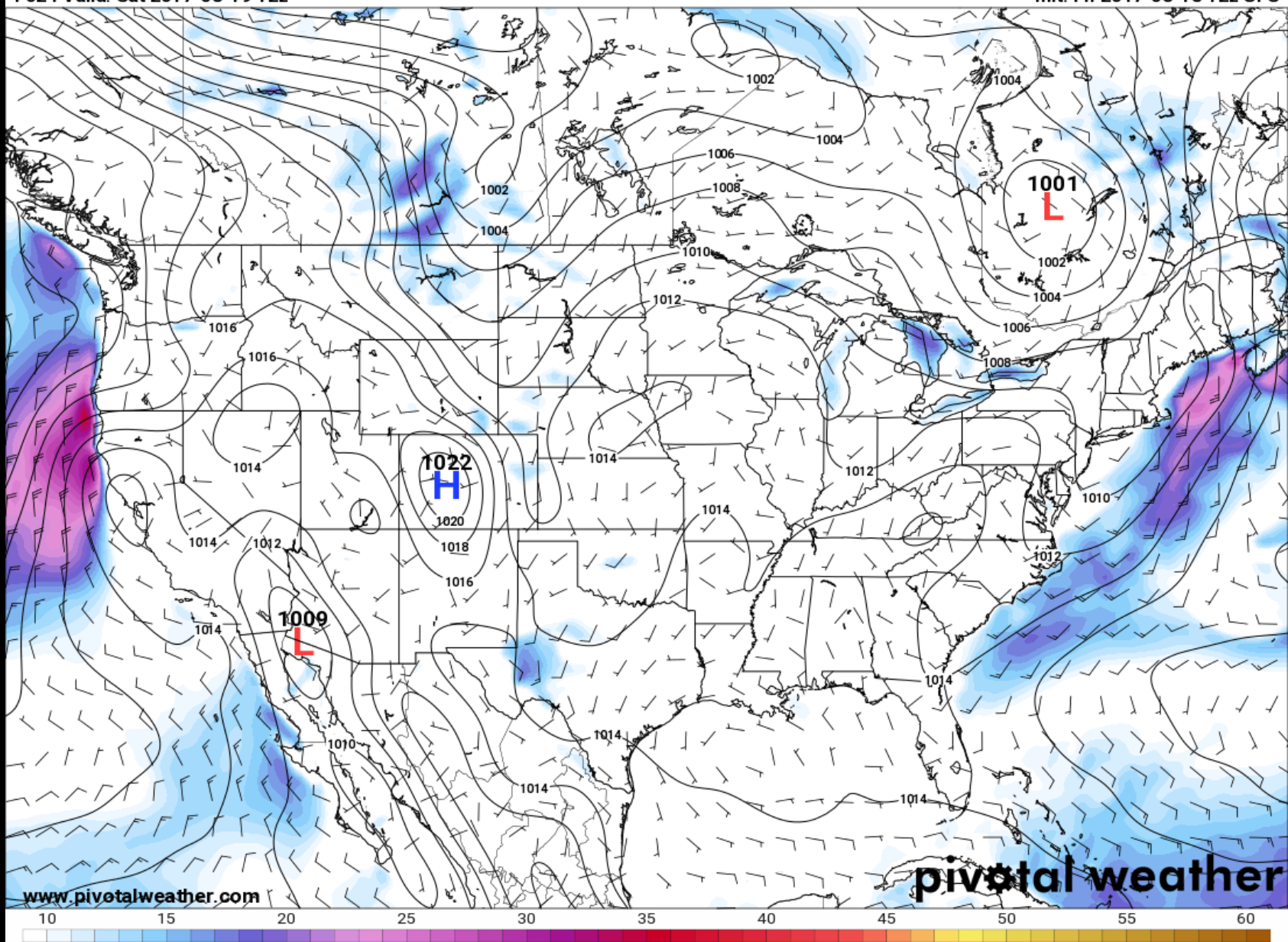
Synoptic weather

- Shown is the 8/18 12z GFS MSLP and 10m winds valid for 12z 8/19
- The low pressure system will be to our north
- As the system moves out we will predominantly have WSW flow

MSLP (mb) and 10 m AGL Wind (kt)

F024 Valid: Sat 2017-08-19 12z

Init: Fri 2017-08-18 12z GFS



Day -1

Day 0

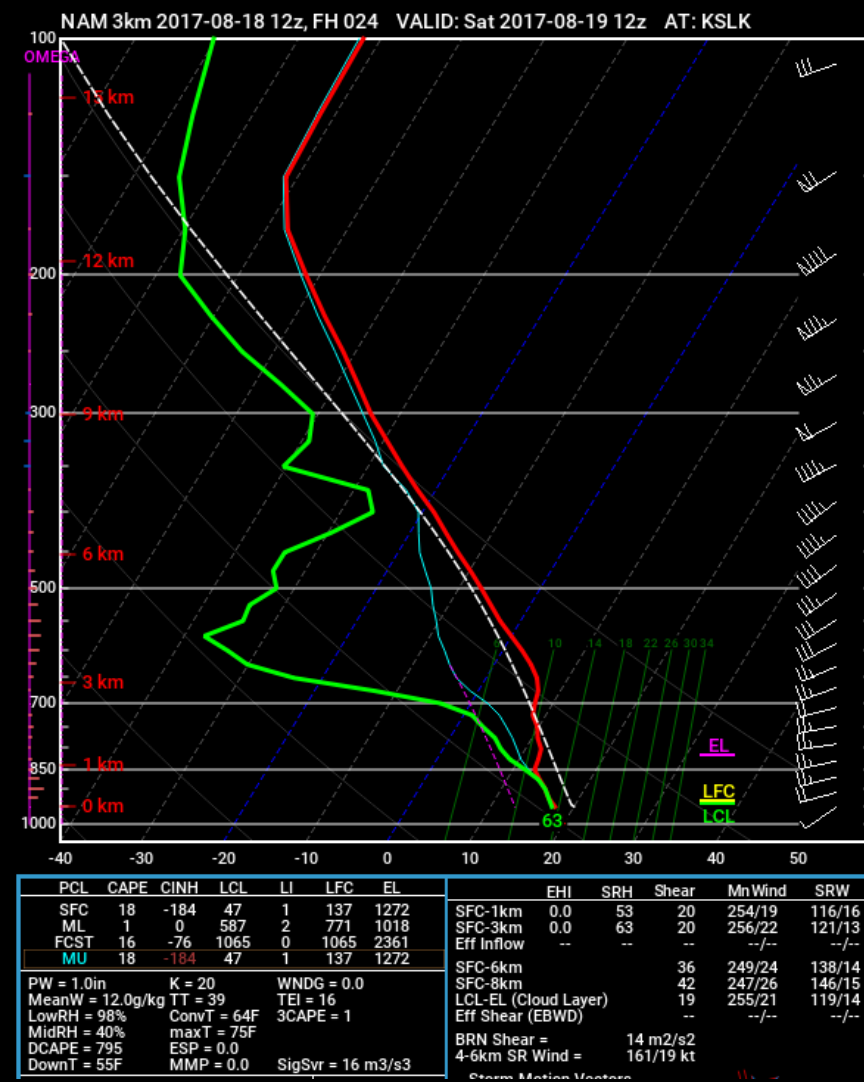
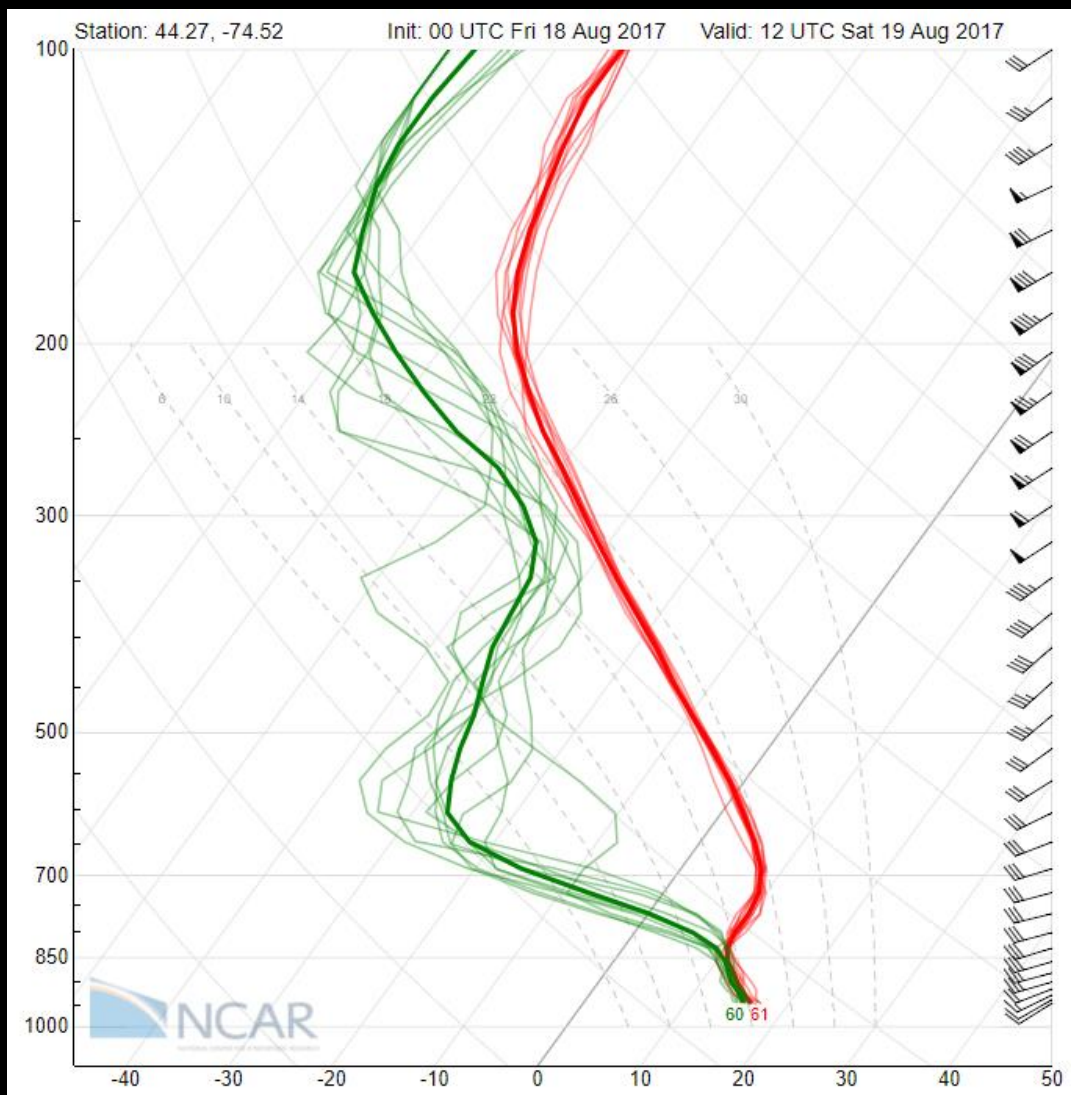
Day 1

Day 2

Day 3-5

Model Soundings

- Shown is the 8/18 12z 3km NAM sounding valid for 12z 8/19 and the 0z 8/18 NCAR ensemble sounding for 12z 8/19
- Both the NCAR ensemble and the NAM are forecasting a thick saturated layer giving us low LCL's



Day -1

Day 0

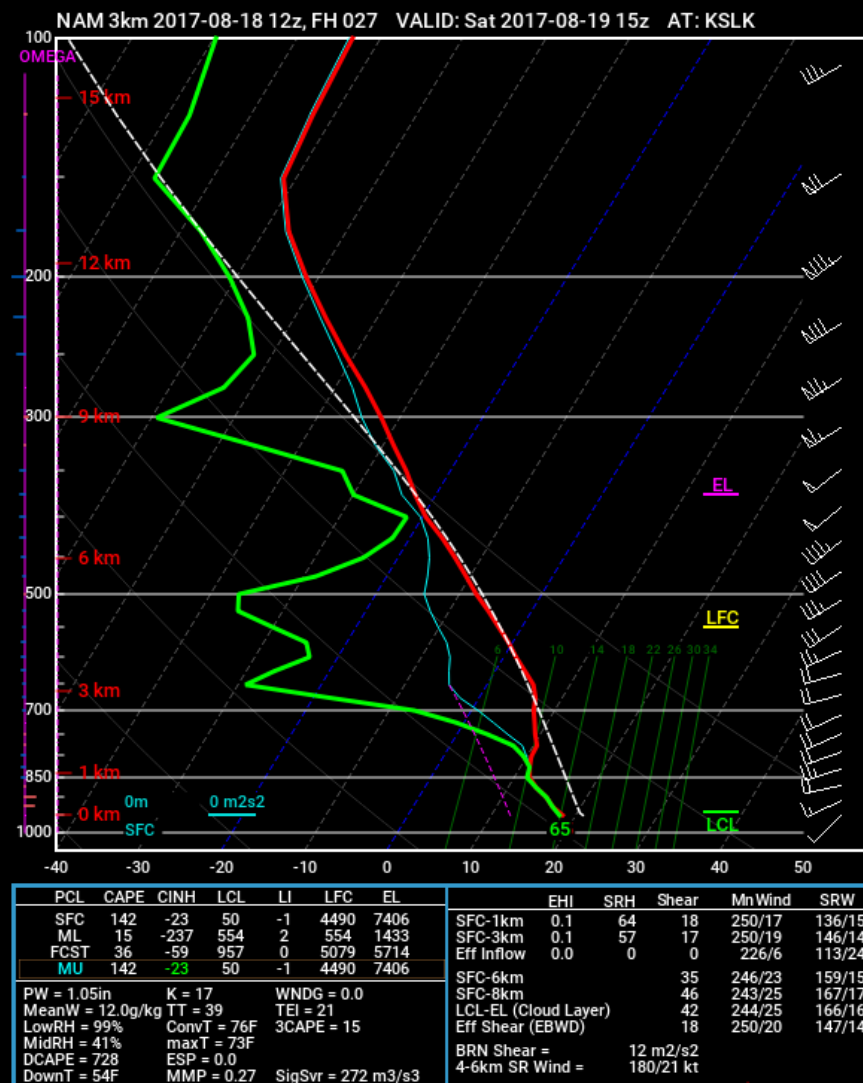
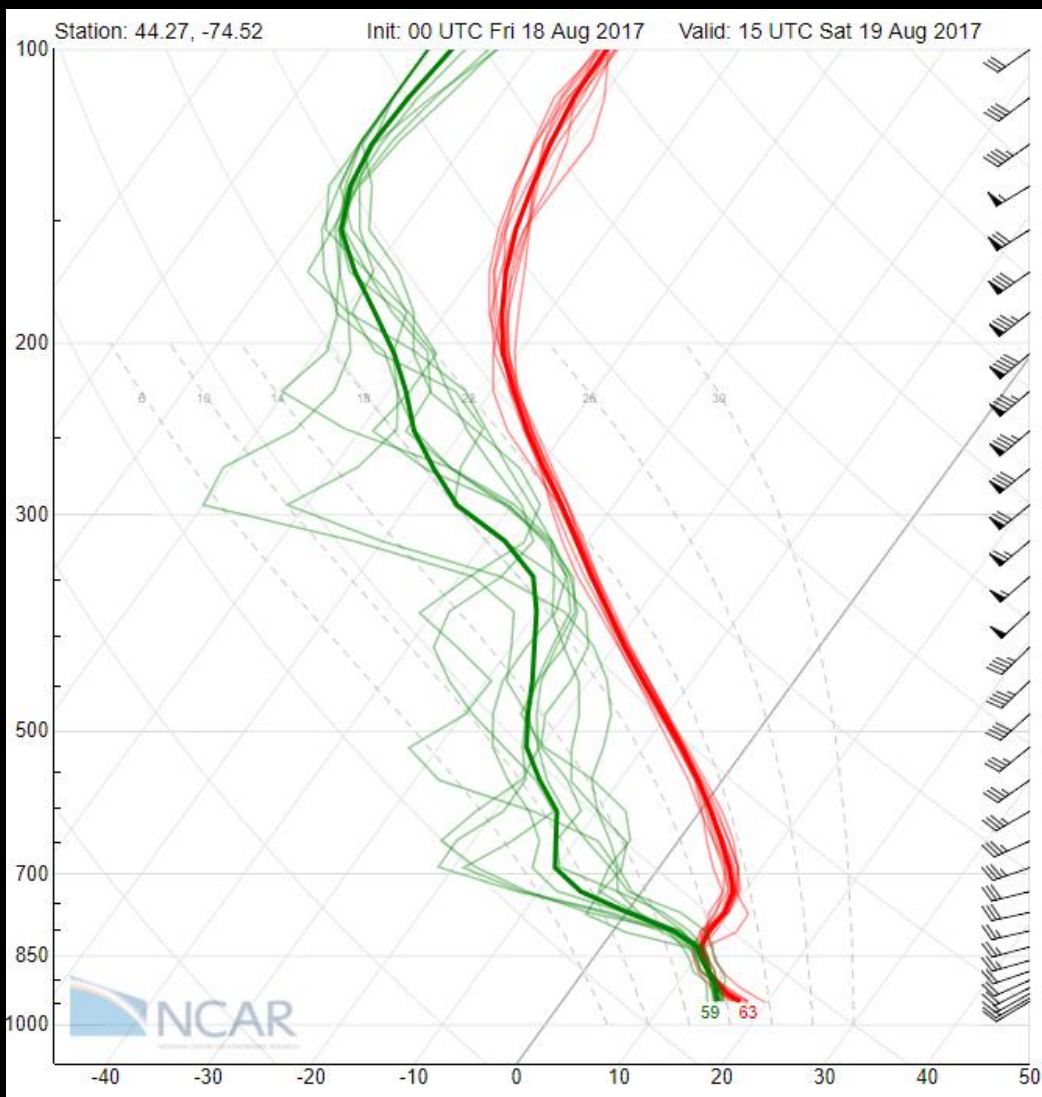
Day 1

Day 2

Day 3-5

Model Soundings

- Shown is the 8/18 12z 3km NAM sounding valid for 15z 8/19 and the 0z 8/18 NCAR ensemble sounding for 15z 8/19
- Both the NCAR ensemble and the NAM are forecasting continue to keep the lower troposphere completely saturated with low LCL's
- A capping inversion just above 850mb may prevent vertical development of clouds at this time



Day -1

Day 0

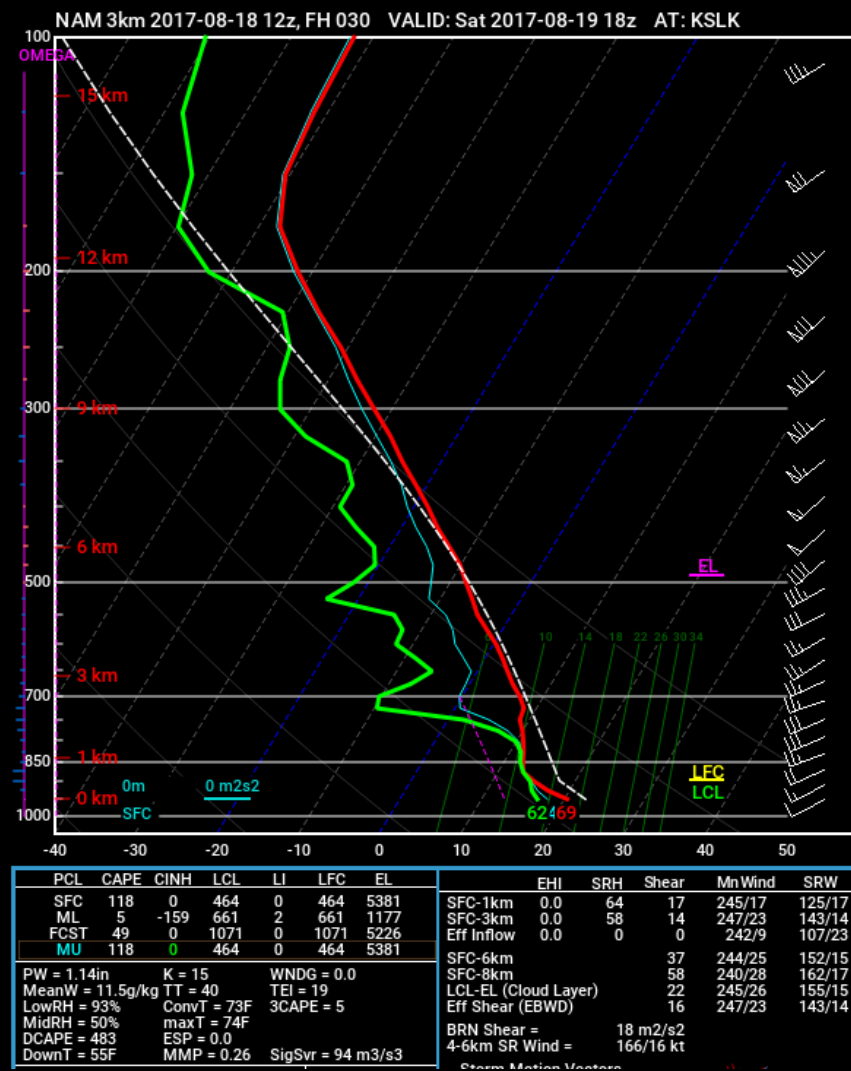
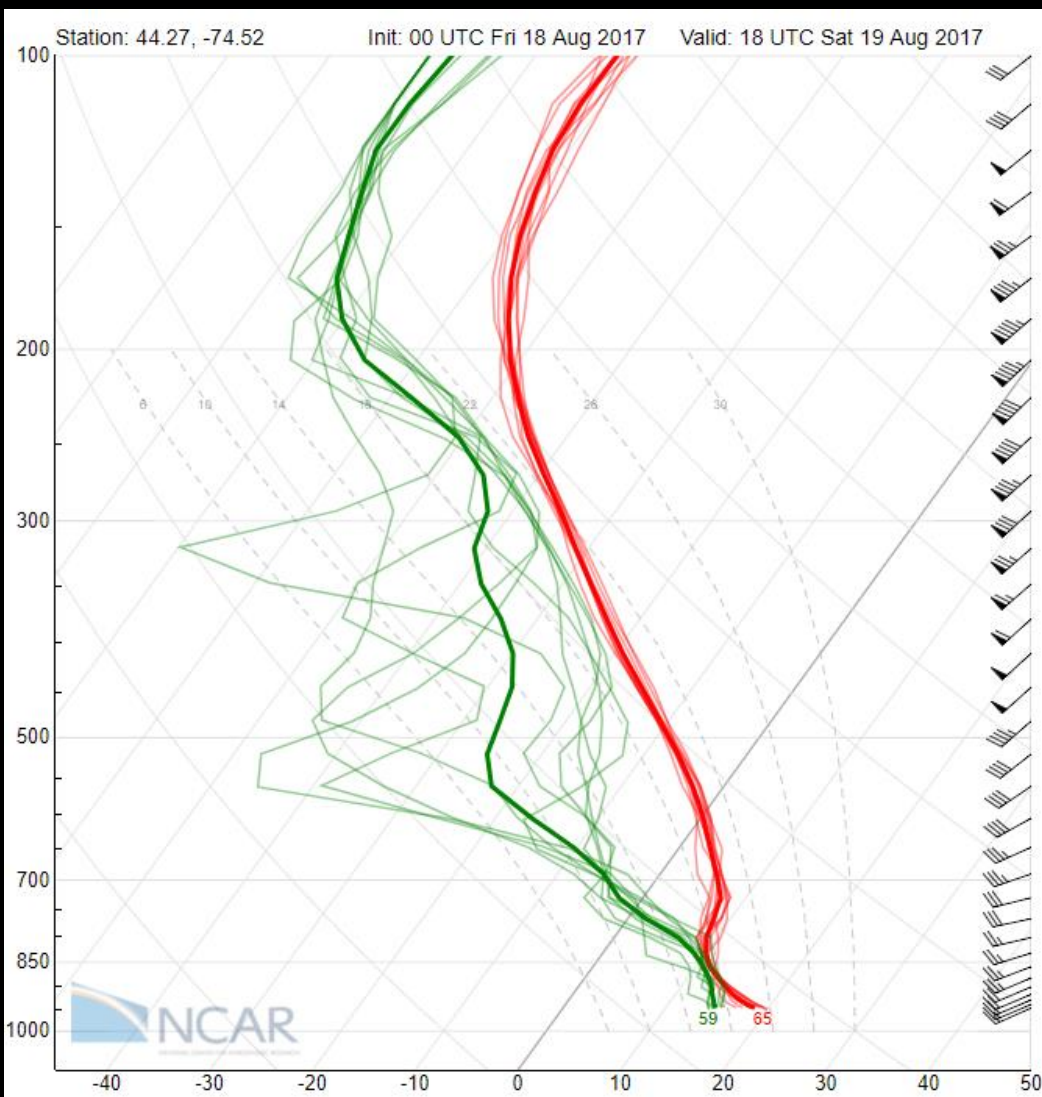
Day 1

Day 2

Day 3-5

Model Soundings

- Shown is the 8/18 12z 3km NAM sounding valid for 18z 8/19 and the 0z 8/18 NCAR ensemble sounding for 18z 8/19
- Both the NCAR ensemble and the NAM even into the afternoon are forecasting the LCL's to be below 850mb
- As the surface warm there may be more of a chance of convection



Day -1

Day 0

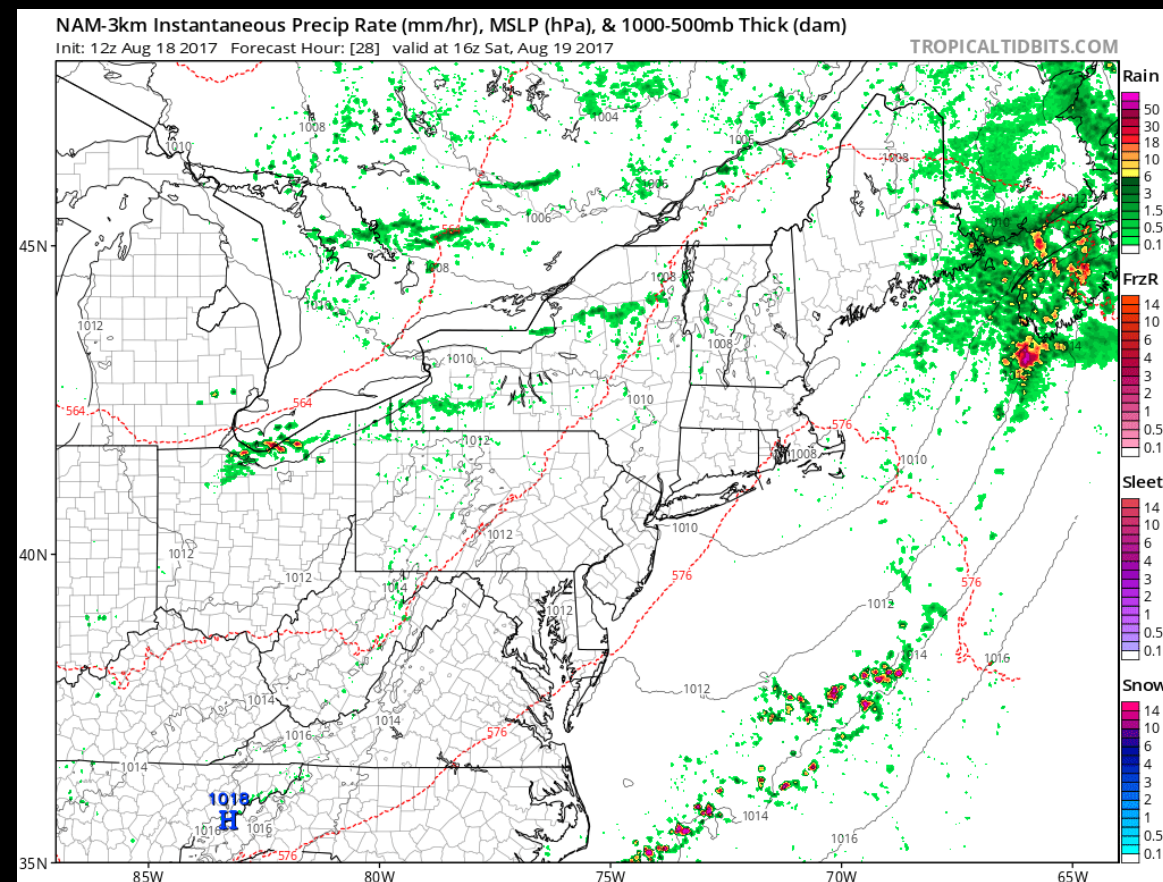
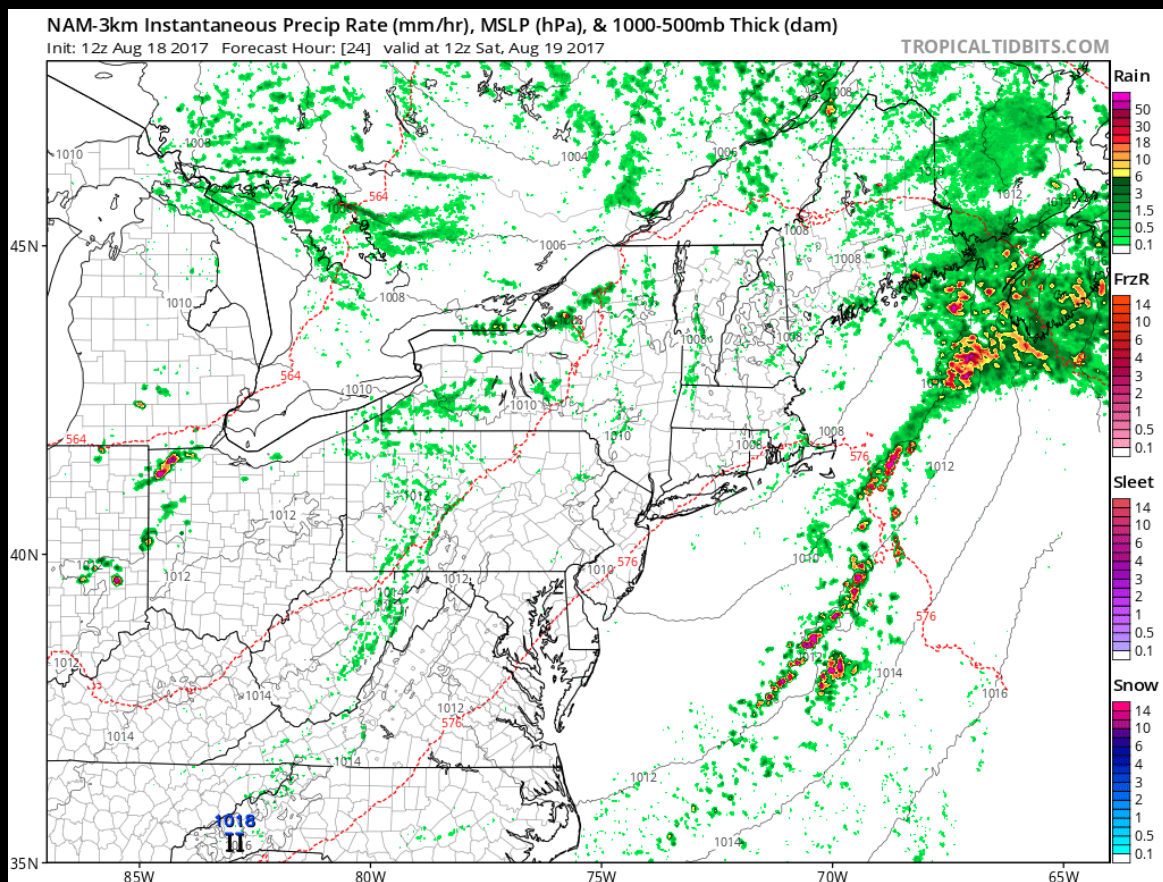
Day 1

Day 2

Day 3-5

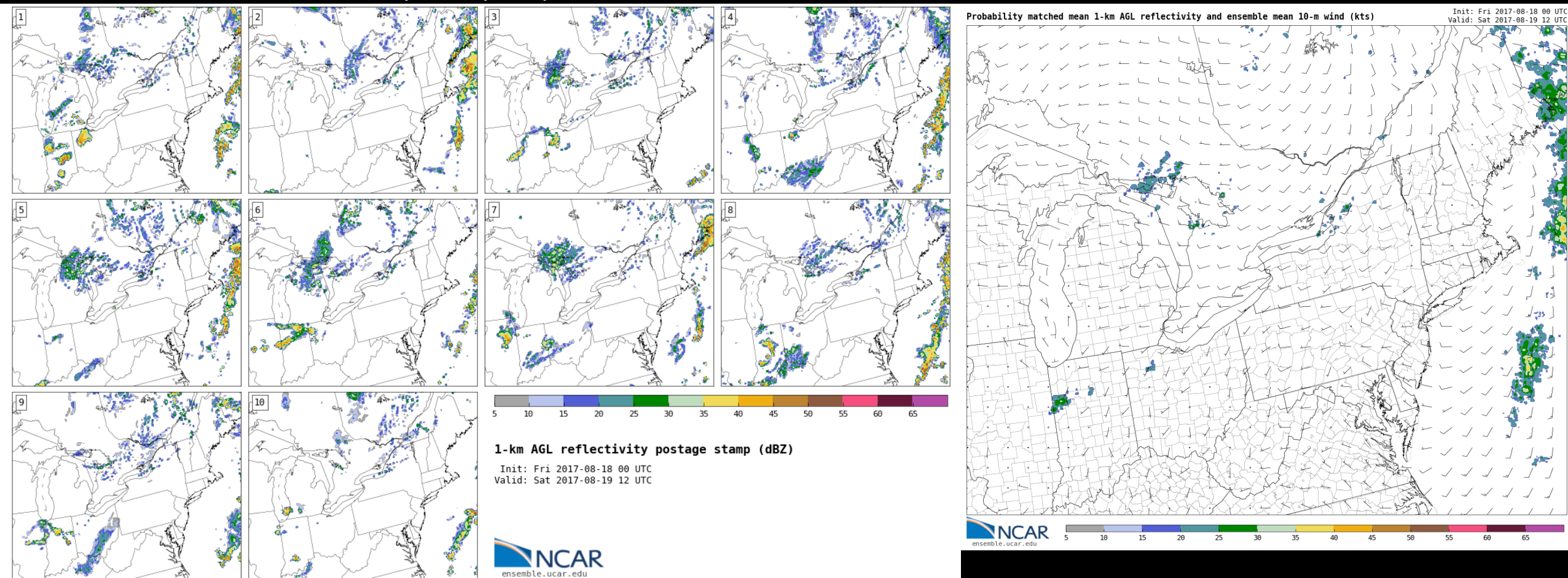
Saturday Precip

- 12z 8/18 3-km NAM Surface Reflectivity and MSLP valid for 8/19 12z and 16z respectively
- The NAM is forecasting showers to be very spotty, light, and passing
- These shower may only effect our operations for 15-30 mins at a time and would likely be easy to work around



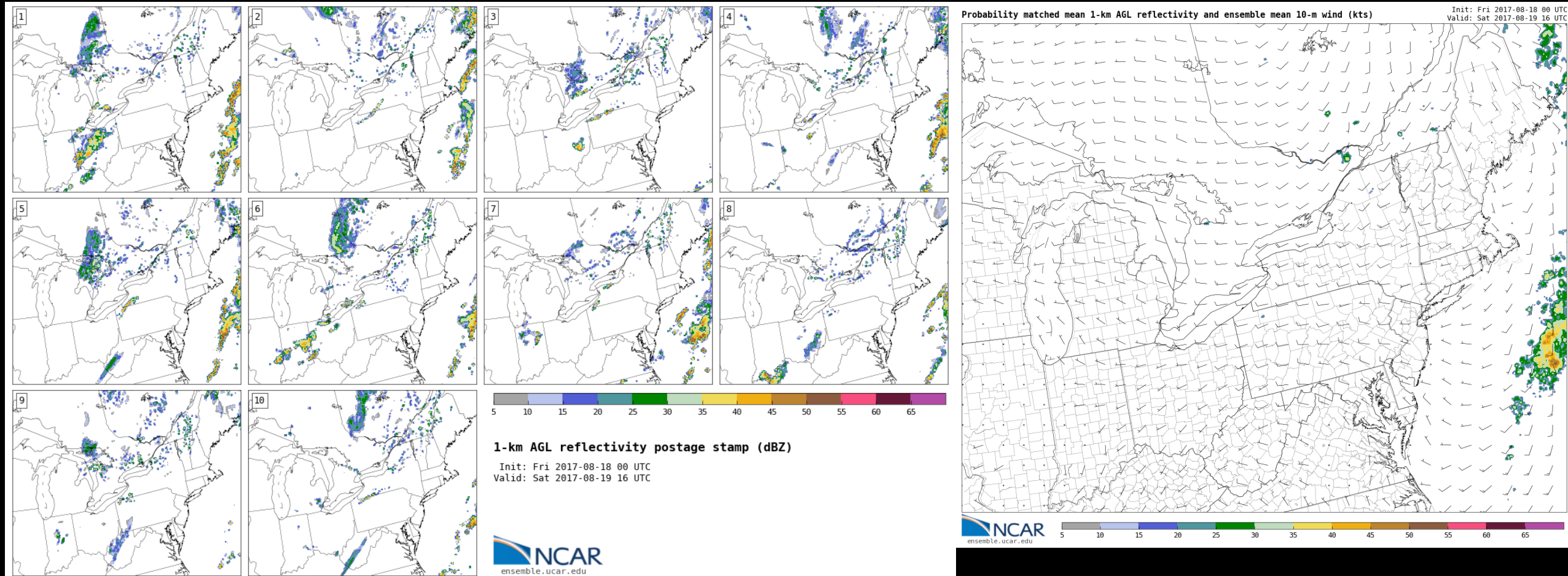
Saturday Precip

- Show in the 0z NCAR ensemble 1km AGL reflectivity postage stamps and ensemble mean for 12z 8/19
- All of the members have the precip very light and generally isolated, thus giving only a slight chance that our operations would be effected
- The ensemble mean has very little precip forecasted, with most of it to the south or west of our area



Saturday Precip

- Show in the 0z NCAR ensemble 1km AGL reflectivity postage stamps and ensemble mean for 16z 8/19
- Many of the members again have the precip very light and generally isolated
- The ensemble mean is forecasting our area to be completely rain free



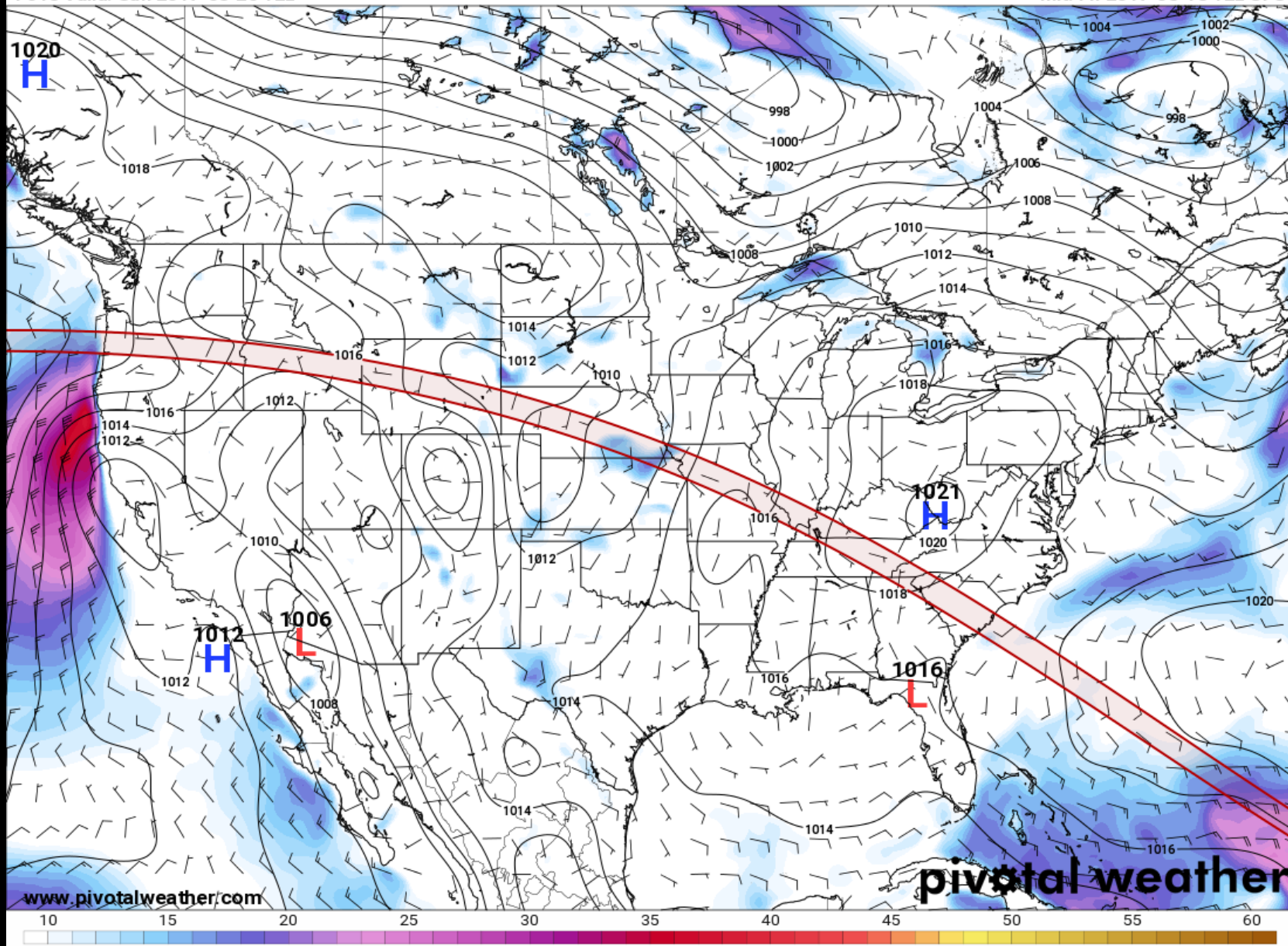
Long Term

- 12z 8/18 GFS run showing 6hr precip accumulation and MSLP for 12z 8/20
- High pressure is forecasted to move into the area Sunday bringing dry and mostly sunny weather

MSLP (mb) and 10 m AGL Wind (kt)

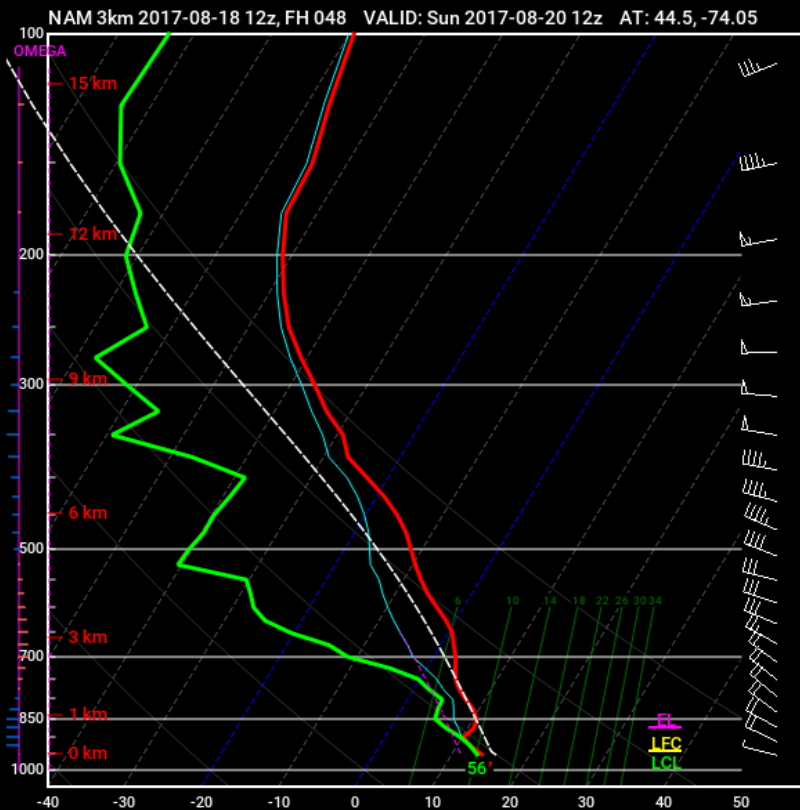
F048 Valid: Sun 2017-08-20 12z

Init: Fri 2017-08-18 12z GFS

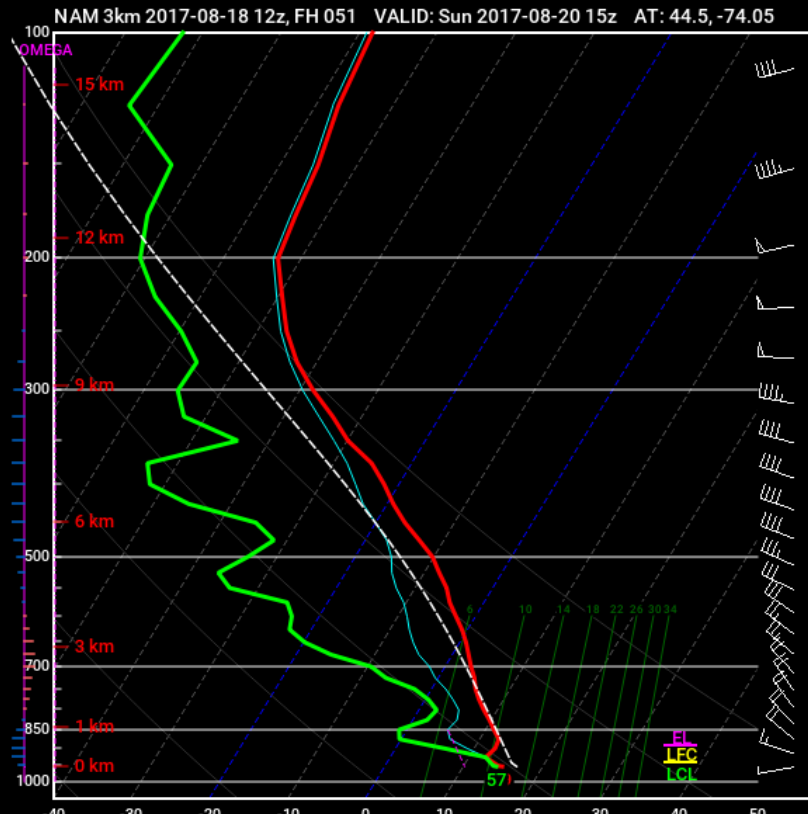


Sunday Model Soundings

- Shown is the 12z 8/17 3km NAM model soundings with simulated radar inset valid for 12z and 15z 8/20
- The forecasted LCL's are low enough to be a favorable day however a dry later aloft new the summit may prevent cloud formation at the summit



PCL	CAPE	CINH	LCL	LI	LFC	EL										
SFC	14	-298	77	4	77	681	SFC-1km	0.0	45	15	297/17	171/17				
ML	0	0	850	6	--	850	SFC-3km	0.0	62	19	303/20	174/14				
FCST	7	-126	1479	3	1479	2229	Eff Inflow	--	--	--	--/--	--/--				
MU	14	-298	77	4	77	681										
PW = 0.73in							K = 13					WNDG = 0.0				
MeanW = 8.3g/kg							TT = 38					TEI = 7				
LowRH = 90%							ConvT = 57F					3CAPE = 0				
MidRH = 45%							maxT = 71F									
DCAPE = 439							ESP = 0.0									
Downt = 52F							MMP = 0.0					SigSvr = 0 m3/s3				
							BRN Shear = 12 m2/s2									
							4-6km SR Wind = 221/21 kt									
							Storm Motion Vectors									



PCL	CAPE	CINH	LCL	LI	LFC	EL										
SFC	10	-237	92	4	92	510	SFC-1km	0.0	55	16	296/15	178/20				
ML	0	0	1034	9	--	1034	SFC-3km	0.0	72	20	312/18	179/15				
FCST	0	0	1724	5	--	1724	Eff Inflow	--	--	--	--/--	--/--				
MU	10	-237	92	4	92	510										
PW = 0.65in							K = 7					WNDG = 0.0				
MeanW = 7.0g/kg							TT = 30					TEI = 14				
LowRH = 70%							ConvT = 59F					3CAPE = 0				
MidRH = 40%							maxT = 72F									
DCAPE = 157							ESP = 0.0									
Downt = 50F							MMP = 0.0					SigSvr = 0 m3/s3				
							BRN Shear = 21 m2/s2									
							4-6km SR Wind = 231/20 kt									
							Storm Motion Vectors									

Long Term

- 12z 8/18 GFS run showing 6hr precip accumulation and MSLP for 12z 8/21
- High pressure is forecasted to dominate the region Monday giving dry and clear weather, good for solar eclipse viewing

MSLP (mb) and 10 m AGL Wind (kt)
F072 Valid: Mon 2017-08-21 12z

Init: Fri 2017-08-18 12z GFS

