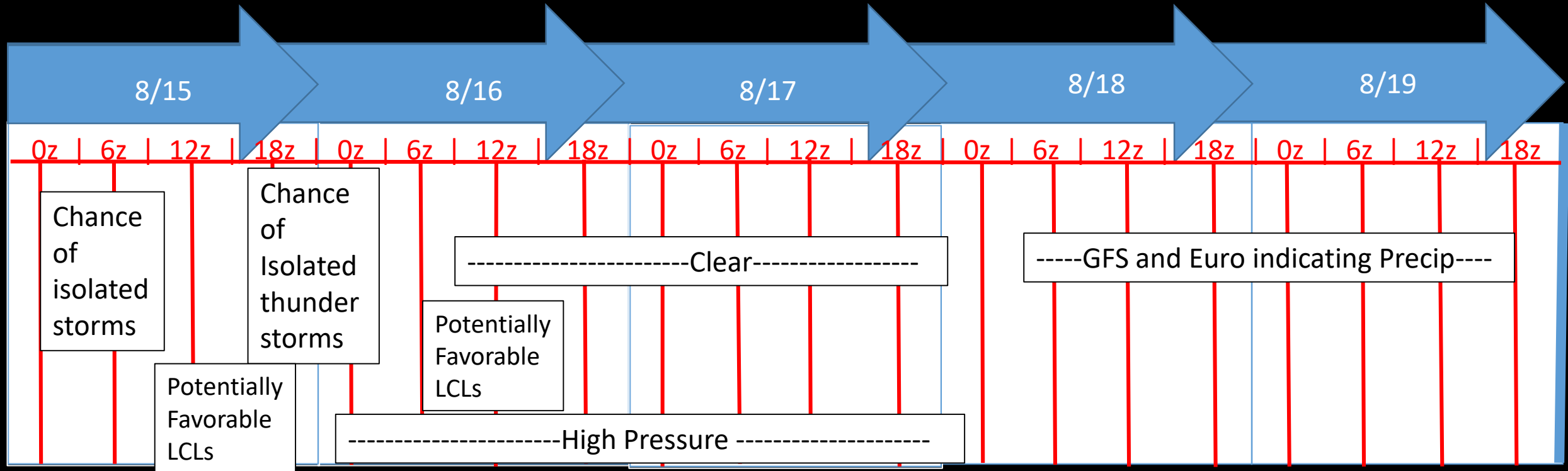


Forecast for 8/15-8/19

Forecaster: Matthew Brewer

Forecast made: 8/14/2017

Outlook



Day -1

Day 0

Day 1

Day 2

Day 3-5

Overview for Day 8/15

- Chance of passing showers in the early morning and isolated shower/T-storms in the afternoon
- Potentially low LCL's in the morning due to the passing showers moistening the surface

Day -1

Day 0

Day 1

Day 2

Day 3-5

Overview for 8/16

- High pressure to dominate the area
- Possible fog/low clouds in the early morning due to moist surface from previous rain showers
- Subsidence from high pressure may create a dry layer aloft may preventing cloud formation

Day -1

Day 0

Day 1

Day 2

Day 3-5

Overview for Day 3-5

- Thursday- High pressure to start the day and move out of the region as cyclone bringing precip approaches, dry and clear weather throughout the day

Friday- Both models indicating precip for the whole day

Saturday- precip to linger through the morning and early afternoon

Day -1

Day 0

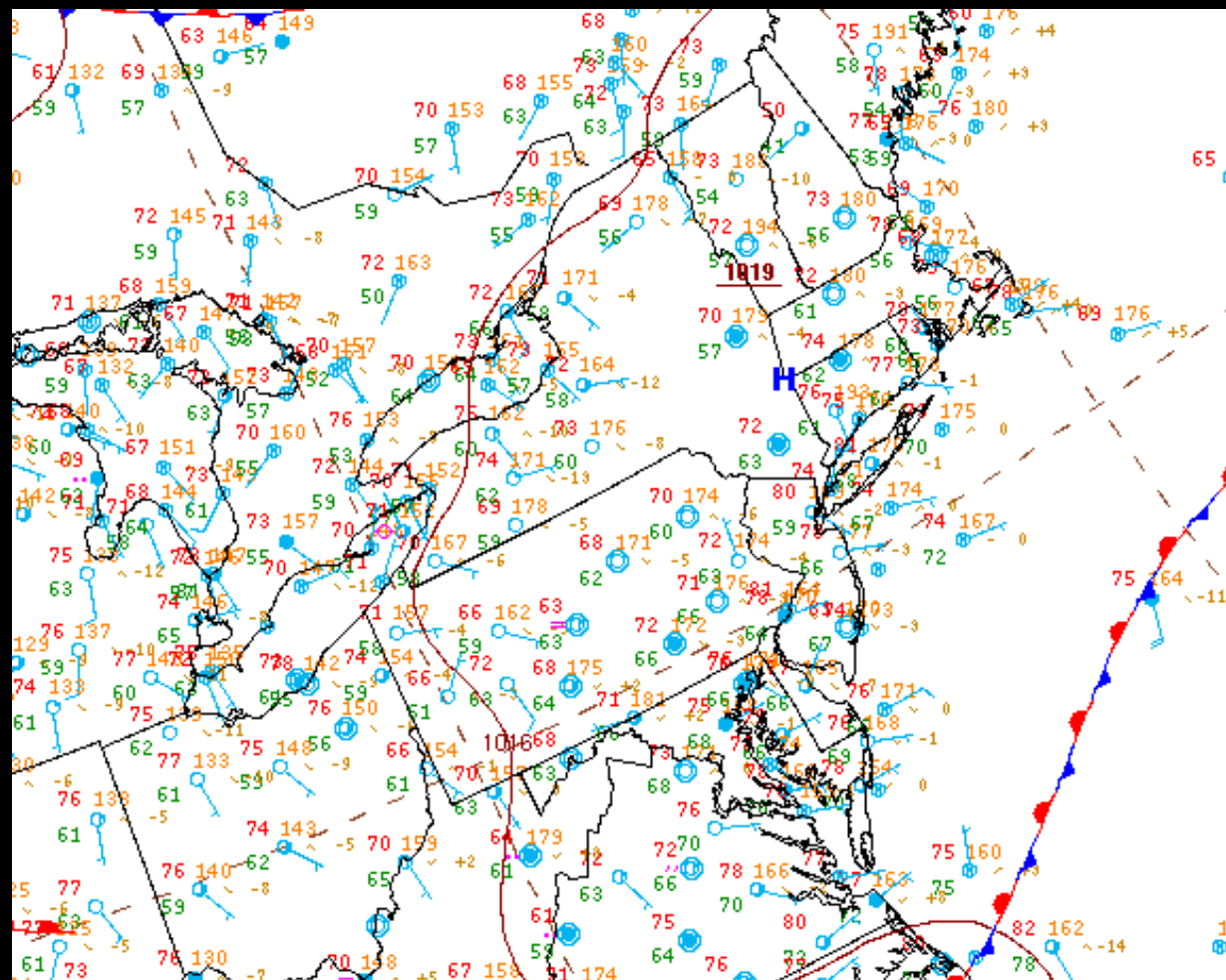
Day 1

Day 2

Day 3-5

Current Surface Analysis

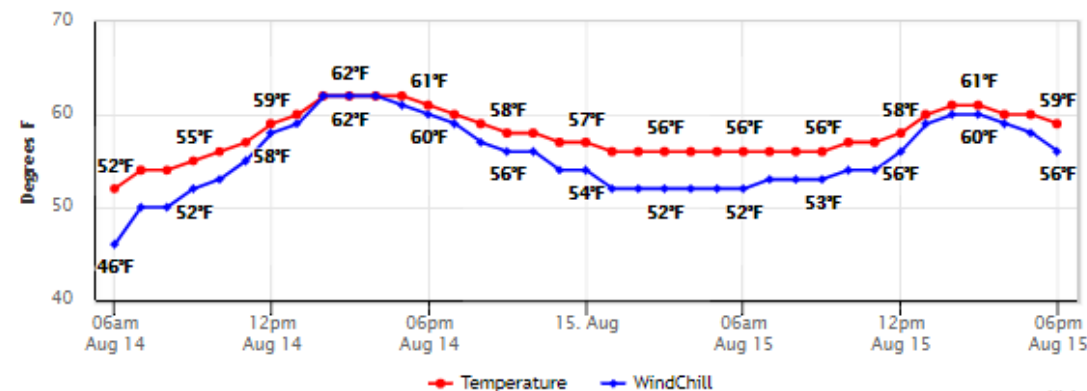
- Shown is the NOAA WPC surface analysis from 15z 8/14/2017
- You can see the area of high pressure dominating the entire area creating very weak winds due to small pressure gradient



Summit forecast

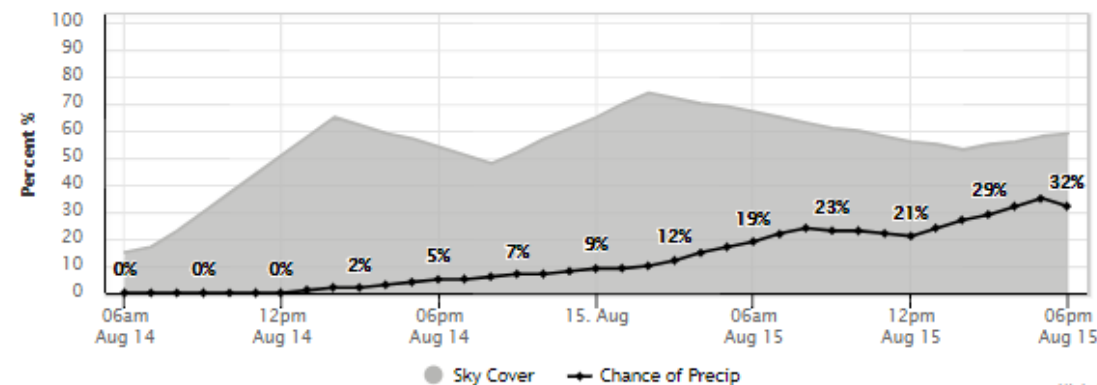
- Shown is the NWS Burlington's summit forecast
- Tomorrow will likely be a more cloudy day with the highest chance of precip in the late afternoon
- Winds will likely be stronger tomorrow and shift from southerly to more westerly

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



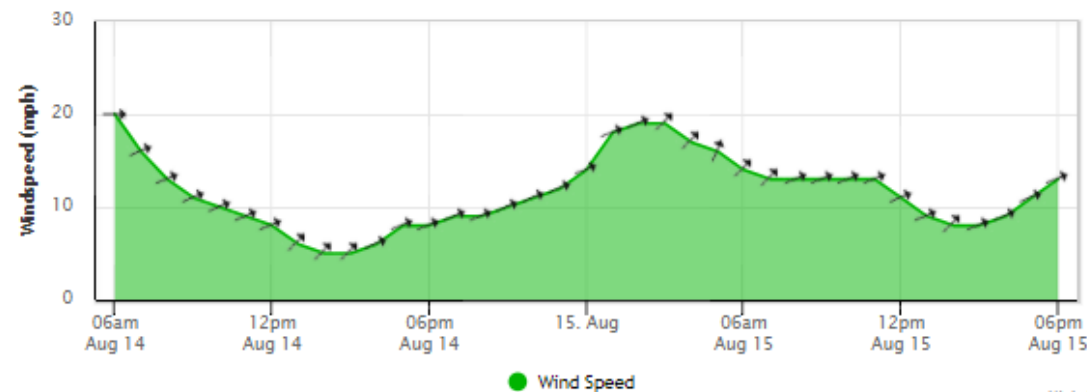
Highcharts.com

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



Highcharts.com

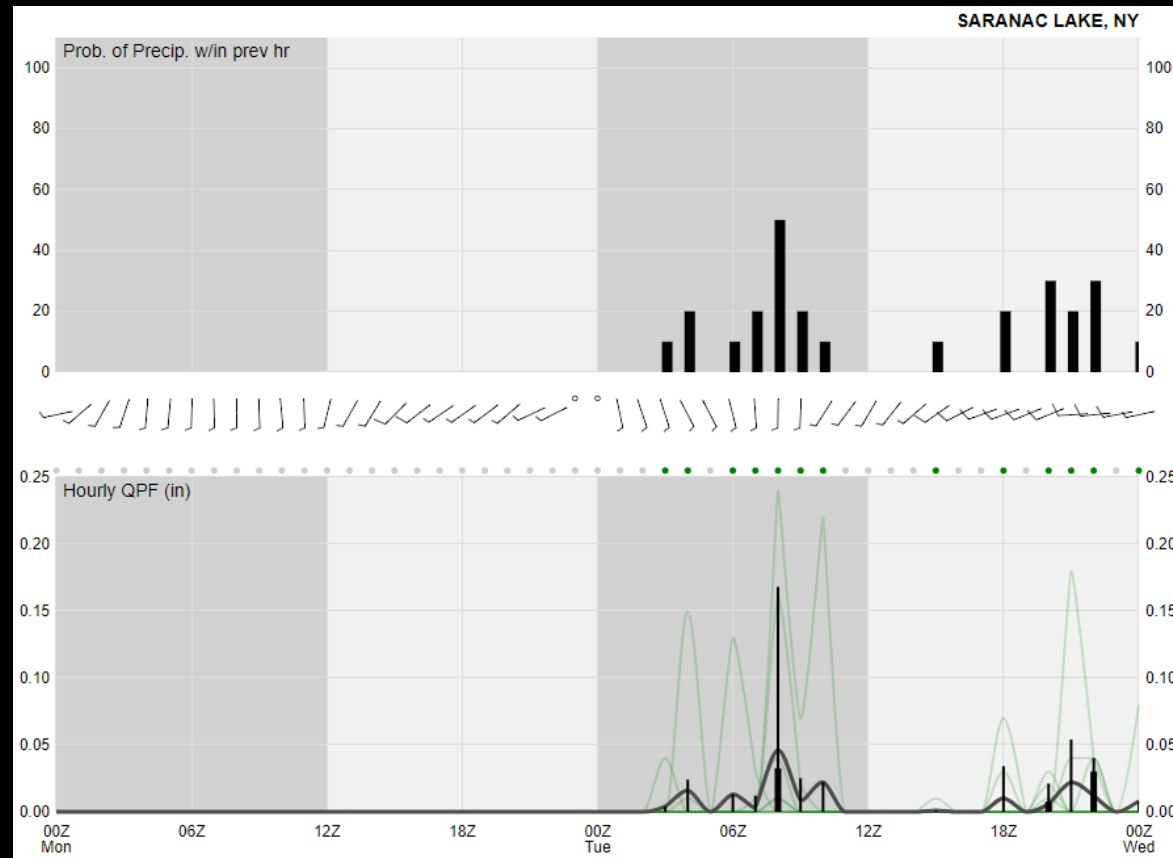
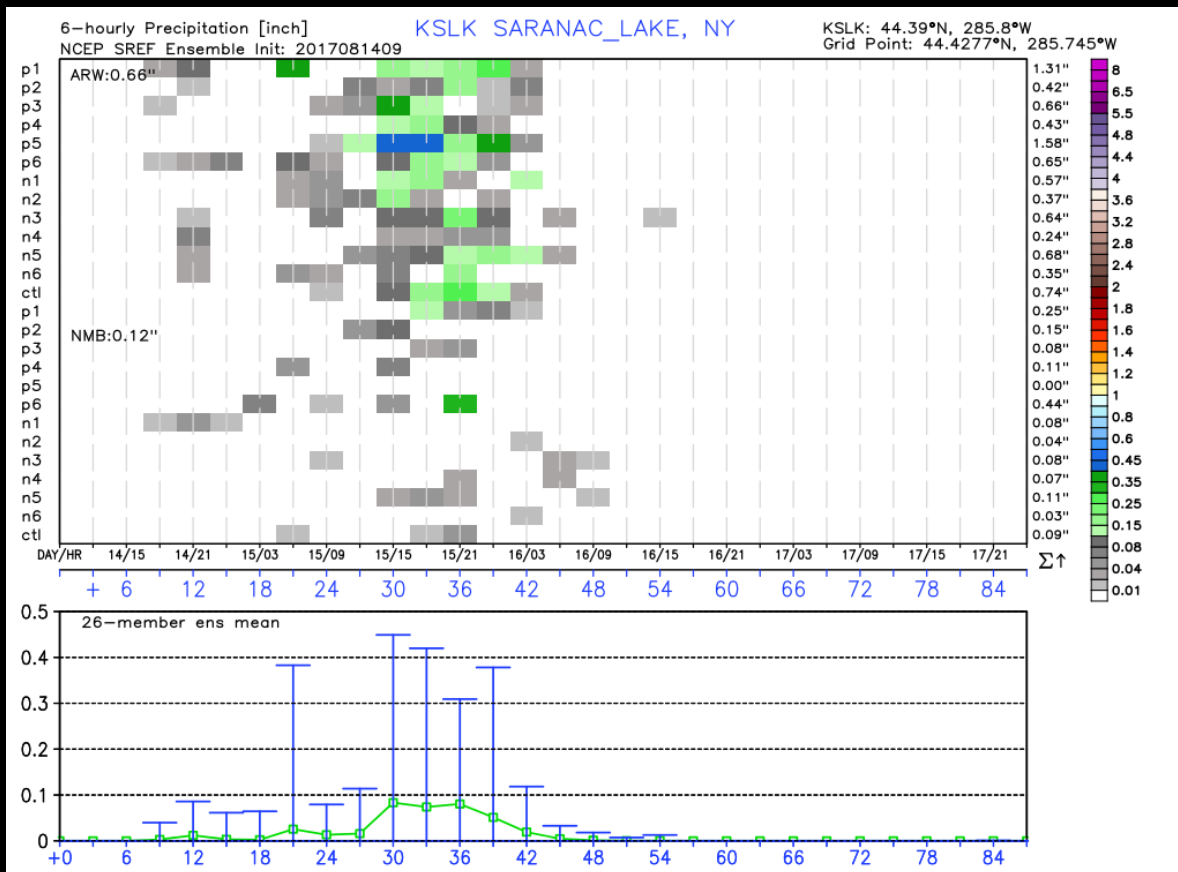
Wind Speed & Direction Forecasts for Whiteface Mountain, NY at 4867'



Highcharts.com

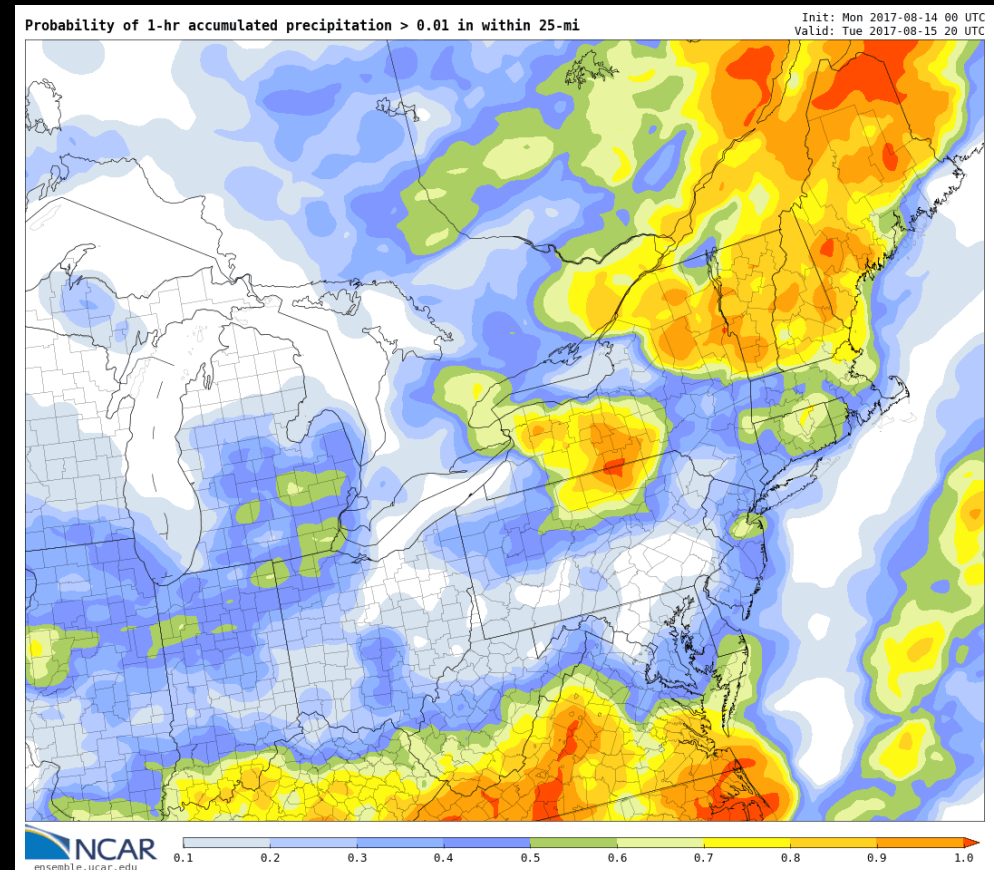
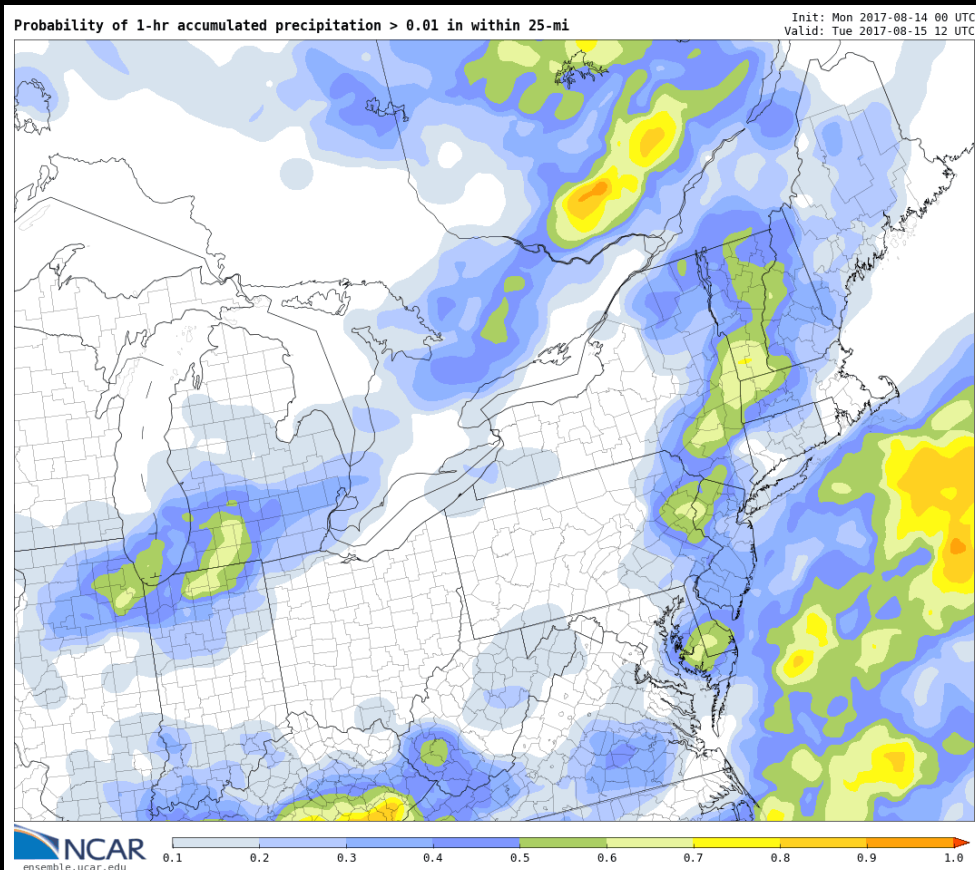
Precip Meteograms

- Left: NCEP SREF 9z 8/14 run showing 6 hourly precip
- Right: NCAR ensemble 0z 8/14 run showing probability of precip and hourly QPF
- Both models indicate a chance of precip for tomorrow with the NCAR ensemble forecasting a higher chance of precip in the early morning than the SREF
- The SREF is forecasting a higher chance of precip in the afternoon than the NCAR ensemble
- Precip seems likely at some point tomorrow but will probably be isolated and passing



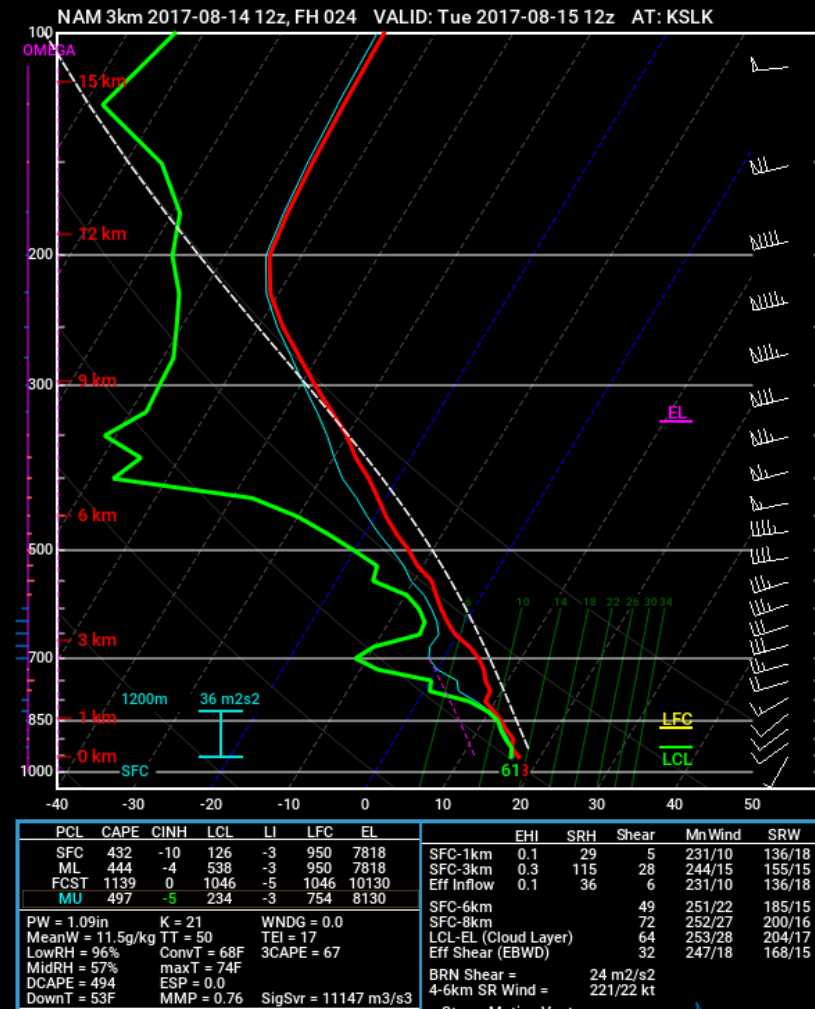
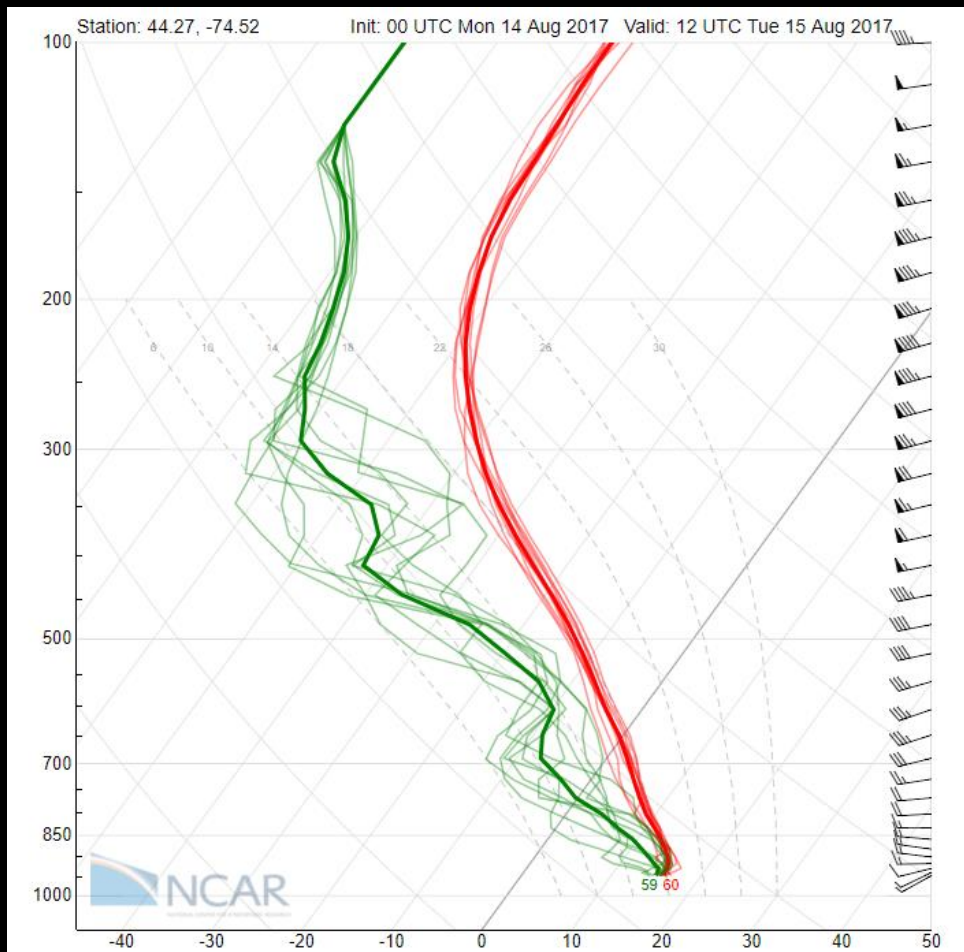
Precip probability

- Shown is the 0z NCAR ensemble probability of 1hr precip of >0.01 in with 25miles for 12z and 18z
- In the morning there is a slight chance of precip, likely just isolated passing showers
- Precip is likely for the afternoon as passing thunderstorm move through the area



Model Soundings

- Shown is the 8/14 12z 3km NAM sounding valid for 12z 8/15 and the 0z 8/14 NCAR ensemble sounding for 12z 8/15
- Possible moistening at the surface from passing showers will help keep the LCLs low tomorrow morning



Day -1

Day 0

Day 1

Day 2

Day 3-5

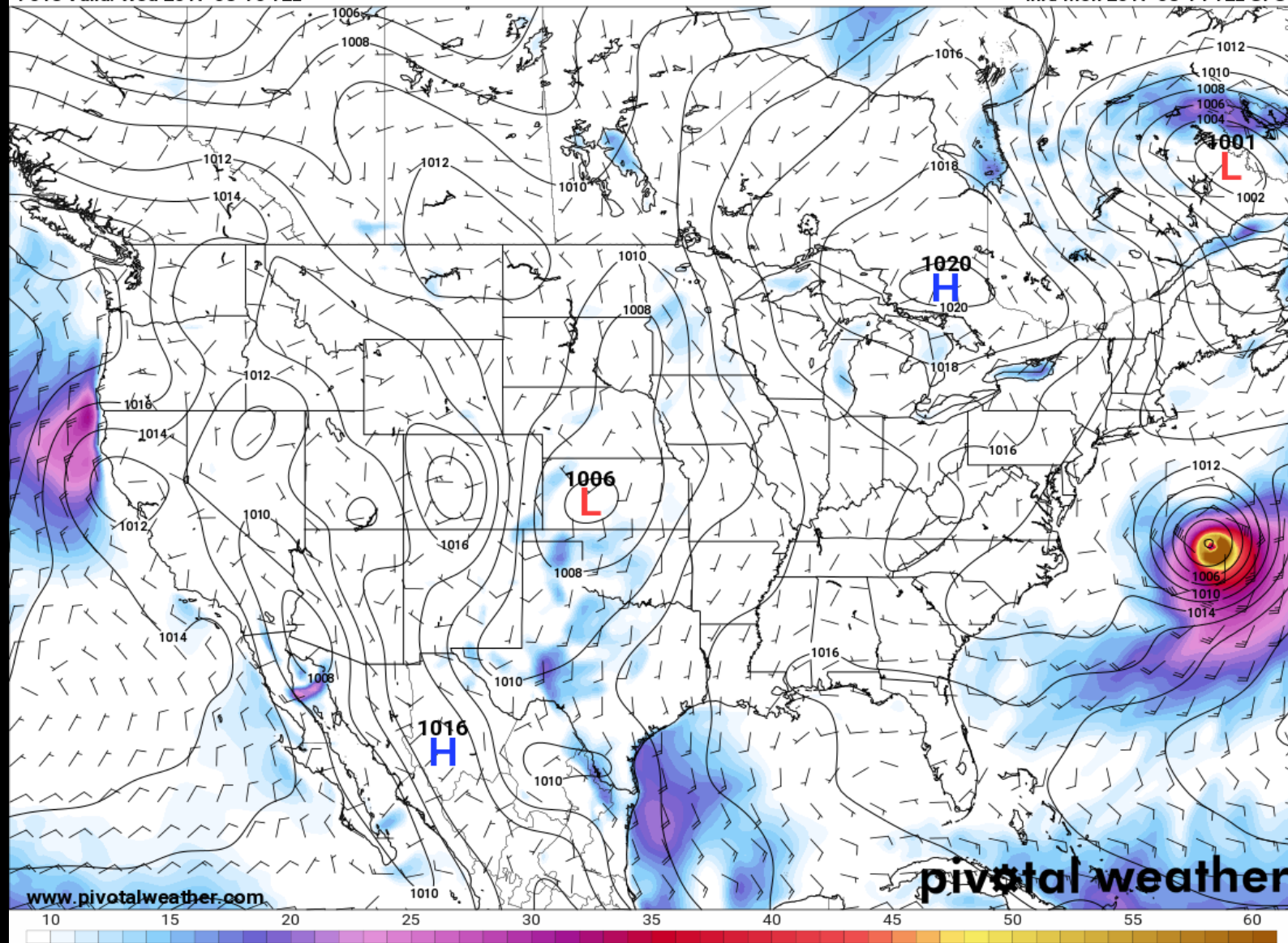
Synoptic Forcing

- Shown is the 12z 8/14 GFS MSLP and 10m winds for 12z 8/16
- The low pressure system to the north will be moving out of the region with the high pressure moving in throughout the day
- Winds will likely be weak and northerly as the system moves over head

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

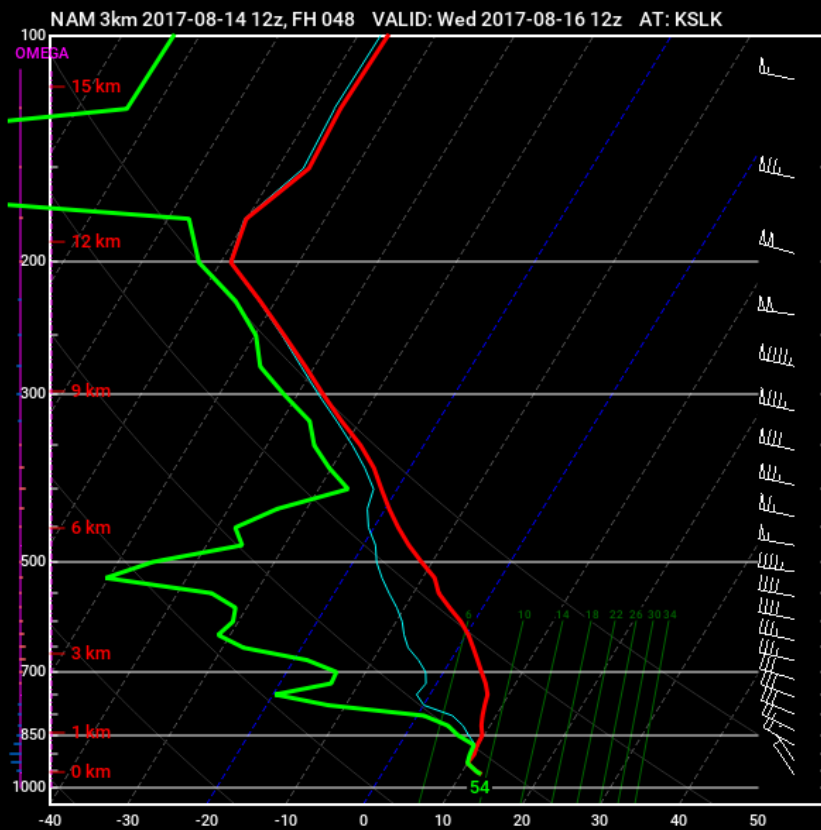
F048 Valid: Wed 2017-08-16 12z

Init Mon 2017-08-14 12z GFS



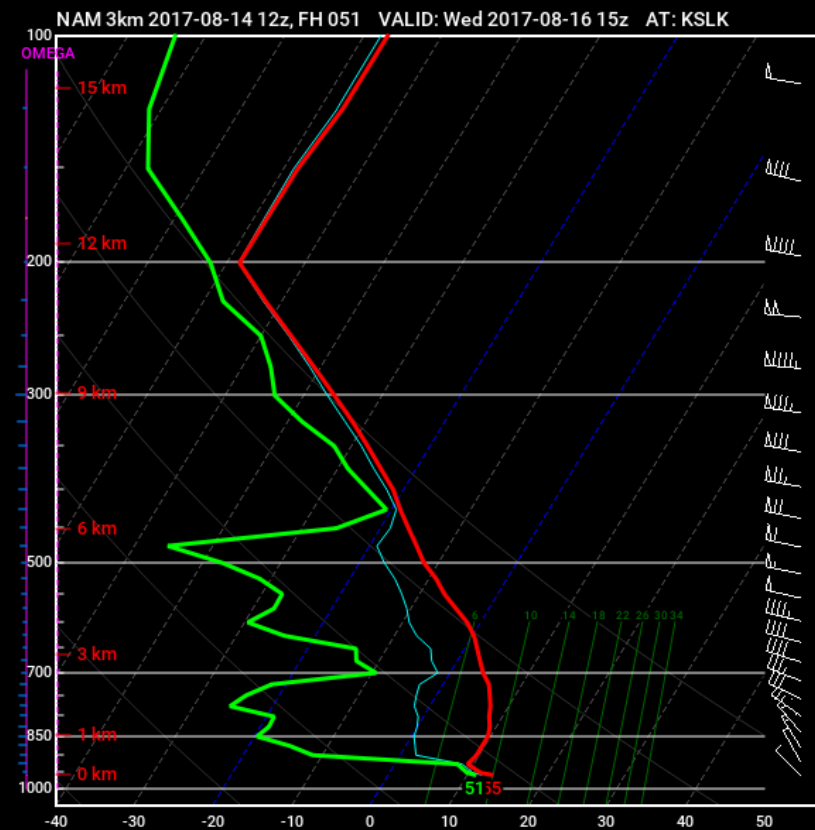
Model Soundings

- Shown is the 8/14 12z 3km NAM sounding valid for 12z 8/16 and 15z 8/16
- The morning sounding shows favorable conditions for low clouds due the moist surface
- subsidence aloft from the high may create a dry layer above the surface preventing clouds shown in the 15z sounding
- Tomorrow's model output should give us a better sense to if conditions will be favorable or not



PCL	CAPE	CINH	LCL	LI	LFC	EL	EHI	SRH	Shear	Mn Wind	SRW	
SFC	9	-775	9	7	9	485	SFC-1km	0.0	19	15	313/15	127/22
ML	0	0	444	7	--	444	SFC-3km	0.0	77	31	296/23	150/16
FCST	0	0	1241	3	1241	1464	Eff Inflow	--	--	--	--	--
MU	0	0	773	5	--	773	SFC-6km		55	289/29	177/14	
							SFC-8km		77	287/34	195/14	
							LCL-EL (Cloud Layer)		0	300/19	139/18	
							Eff Shear (EBWD)		--	--	--	
							BRN Shear =		57 m2/s2			
							4-6km SR Wind =		216/20 kt			

PW = 0.62in K = 9 WNDG = 0.0
 MeanW = 8.4g/kg TT = 39 TEI = 11
 LowRH = 97% ConvT = 54F 3CAPE = 0
 MidRH = 20% maxT = 69F
 DCAPE = 370 ESP = 0.0
 DownT = 49F MMP = 0.0 SigSvr = 0 m3/s3

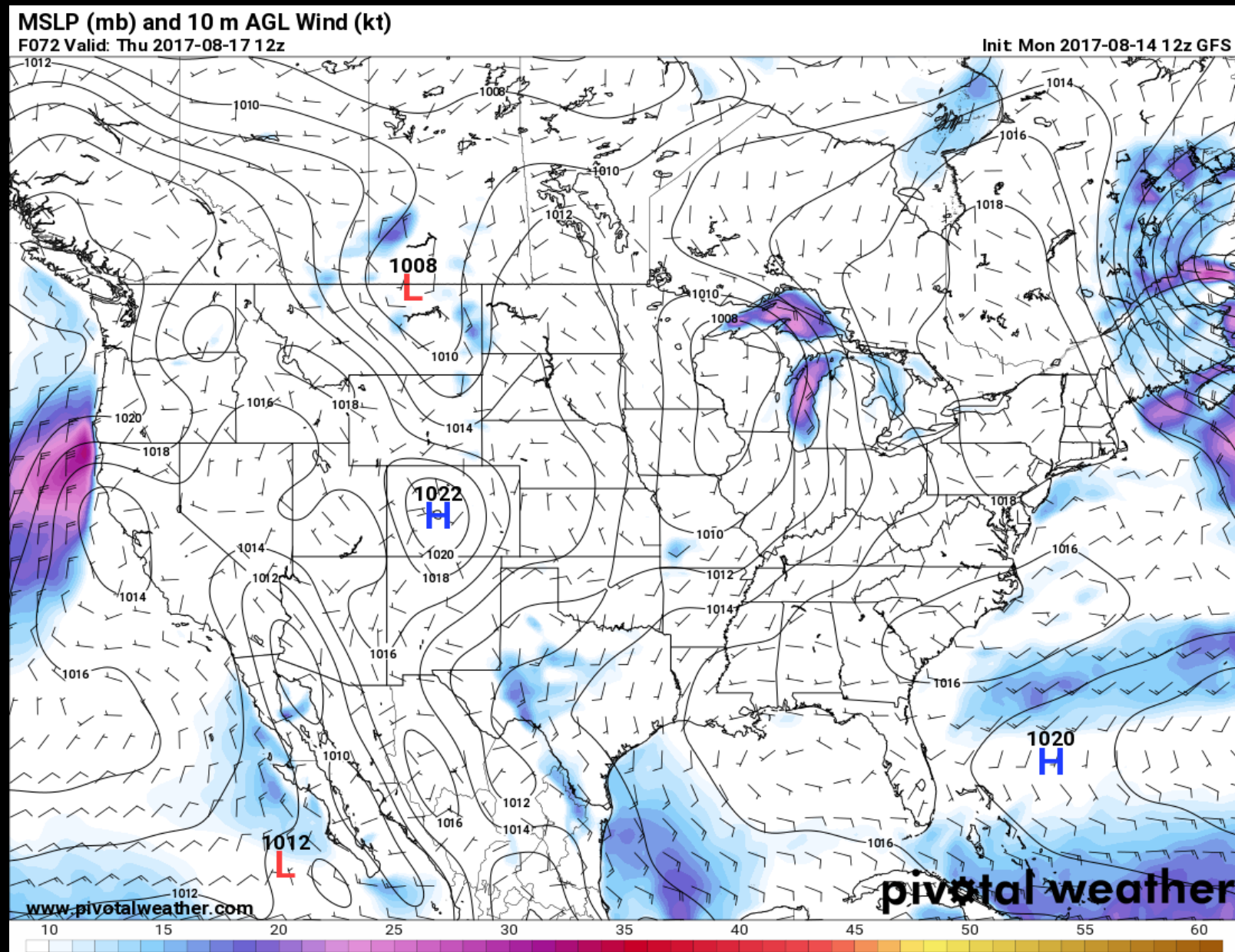


PCL	CAPE	CINH	LCL	LI	LFC	EL	EHI	SRH	Shear	Mn Wind	SRW	
SFC	8	-839	270	8	270	730	SFC-1km	-0.0	-47	14	328/14	124/26
ML	0	0	1996	16	--	1996	SFC-3km	0.0	44	34	305/22	141/18
FCST	0	0	2774	11	--	2774	Eff Inflow	--	--	--	--	--
MU	0	0	5005	6	--	5005	SFC-6km		60	294/30	174/14	
							SFC-8km		78	291/35	194/15	
							LCL-EL (Cloud Layer)		0	281/53	234/28	
							Eff Shear (EBWD)		--	--	--	
							BRN Shear =		69 m2/s2			
							4-6km SR Wind =		228/24 kt			

PW = 0.35in K = -12 WNDG = 0.0
 MeanW = 4.0g/kg TT = 14 TEI = 21
 LowRH = 48% ConvT = --F 3CAPE = 0
 MidRH = 18% maxT = 69F
 DCAPE = 228 ESP = 0.0
 DownT = 42F MMP = 0.0 SigSvr = 0 m3/s3

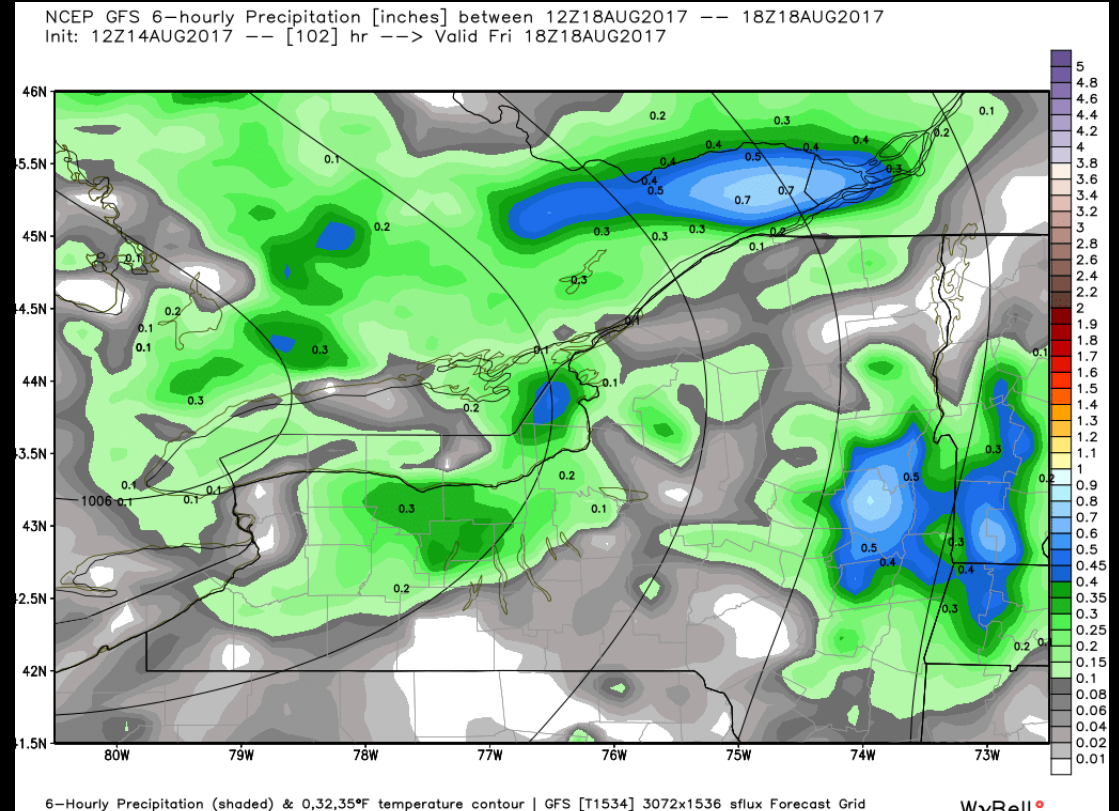
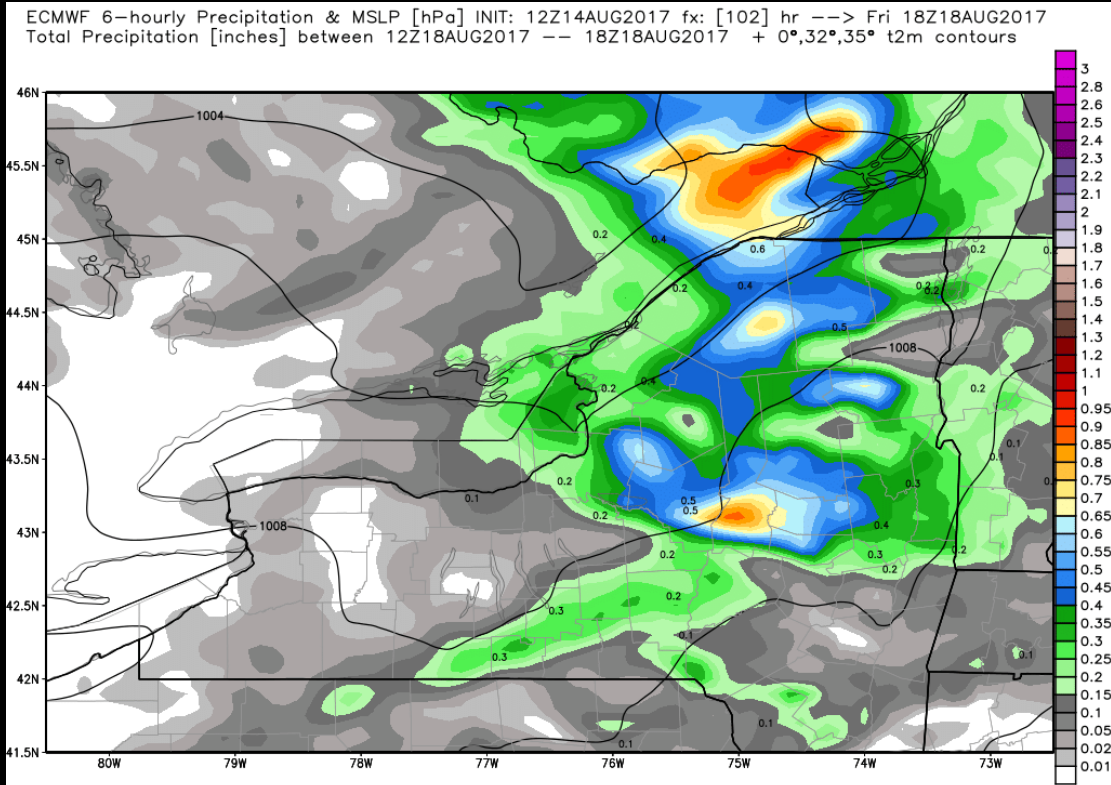
Long Term

- 12z 8/14 GFS run showing MSLP and 10m wind for 12z 8/17
- The GFS and Euro have finally come to an agreement about Thursday
- They are both forecasting the day to start in a high pressure region which will move out throughout the day but it will be a dry day



Long Term

- Left: 12z 8/14 ECMWF run showing 6hr precip accumulation for 18z 8/18
- Right: 12z 8/14 GFS run showing 6hr precip accumulation and MSLP for 18z 8/18
- Both models have come to an agreeance about the precip for later this week with both indicating that precip will be likely throughout the day on Friday
- Both model are also showing a potential minimum in precip in our area, I expect this to chance as we get closer to the event



Long Term

- Left: 12z 8/14 ECMWF run showing 6hr precip accumulation for 18z 8/19
- Right: 12z 8/14 GFS run showing 6hr precip accumulation and MSLP for 18z 8/19
- Both models are forecasting the precip to linger into the morning and possibly early afternoon on Saturday

