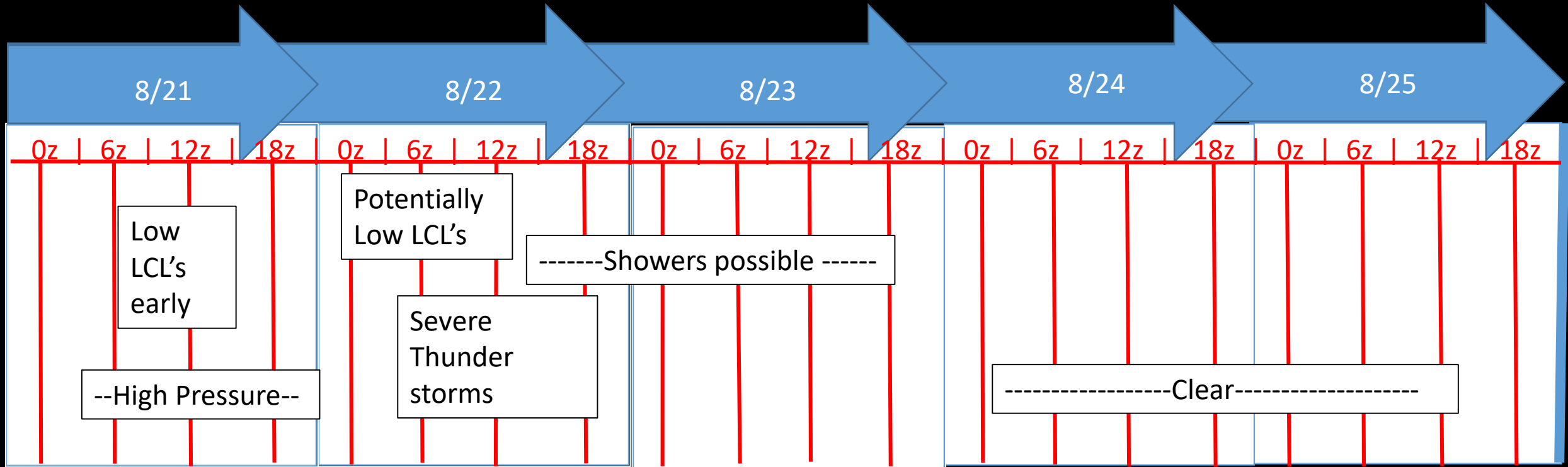


Forecast for 8/21-8/25

Forecaster: Matthew Brewer

Forecast made: 8/20/2017

Outlook



Day -1

Day 0

Day 1

Day 2

Day 3-5

Overview for Day 8/21

- Low LCL's early on
- High pressure system
- Mostly sunny

Day -1

Day 0

Day 1

Day 2

Day 3-5

Overview for 8/22

- Potentially low LCL
- Chance of T-storms in the afternoon
- Rain in the evening

Day -1

Day 0

Day 1

Day 2

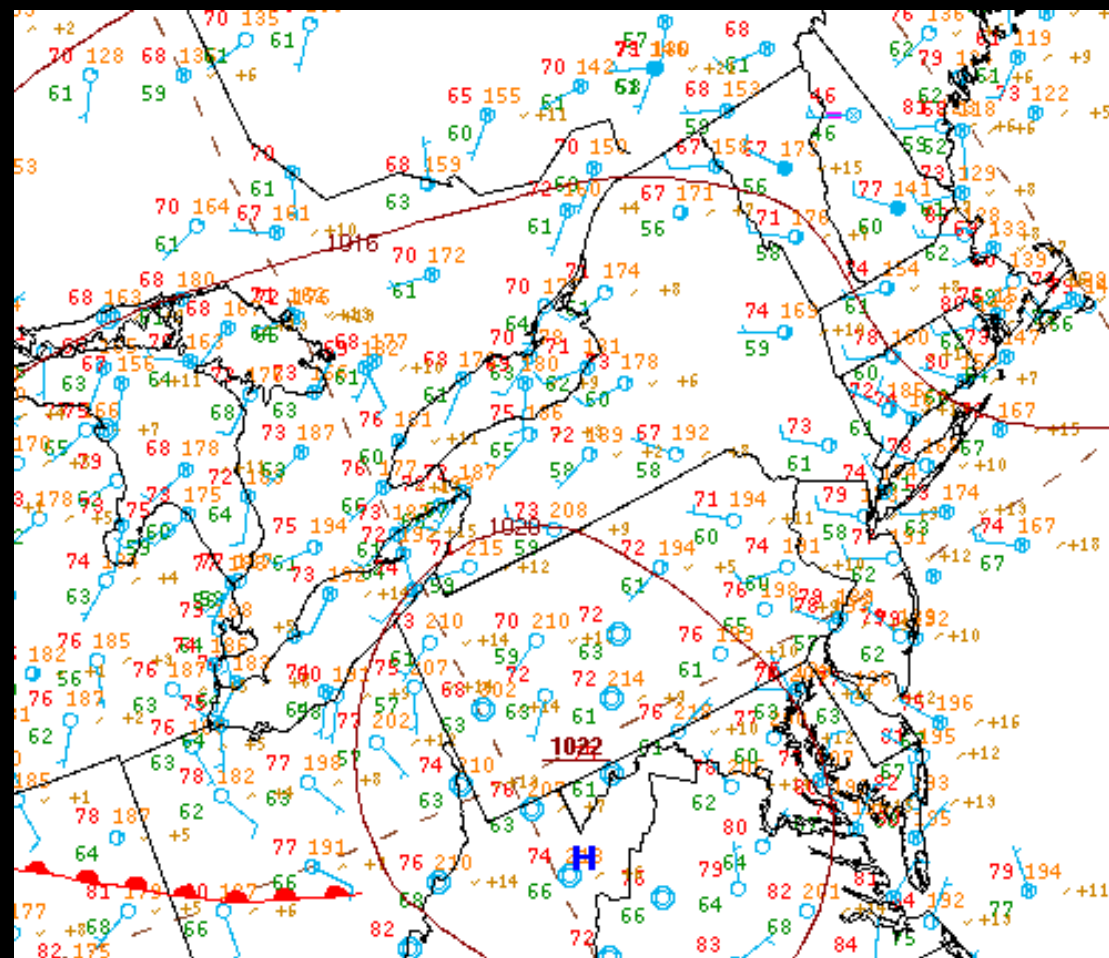
Day 3-5

Overview for Day 3-5

- Wednesday- Rain possible/low LCL's
- Thursday/Friday- potentially clear weather

Current Surface Analysis

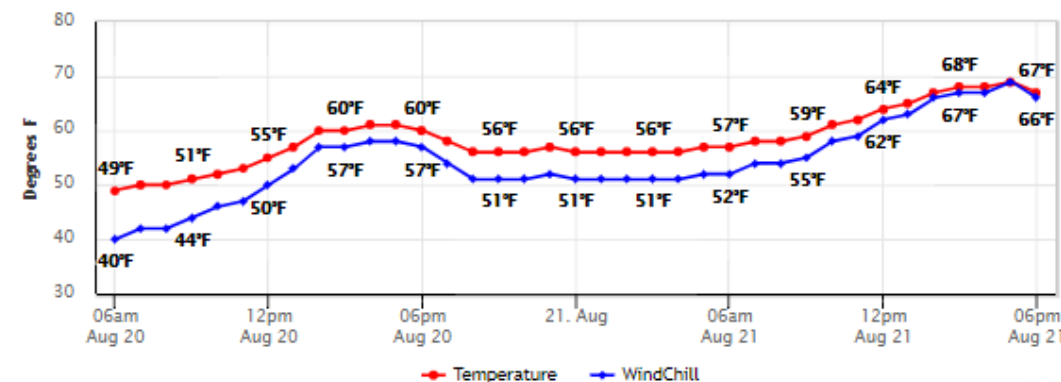
- Shown is the NOAA WPC surface analysis from 15z 8/20/2017
- The high to the south has created a dry partly cloudy day which will likely stick around through tomorrow



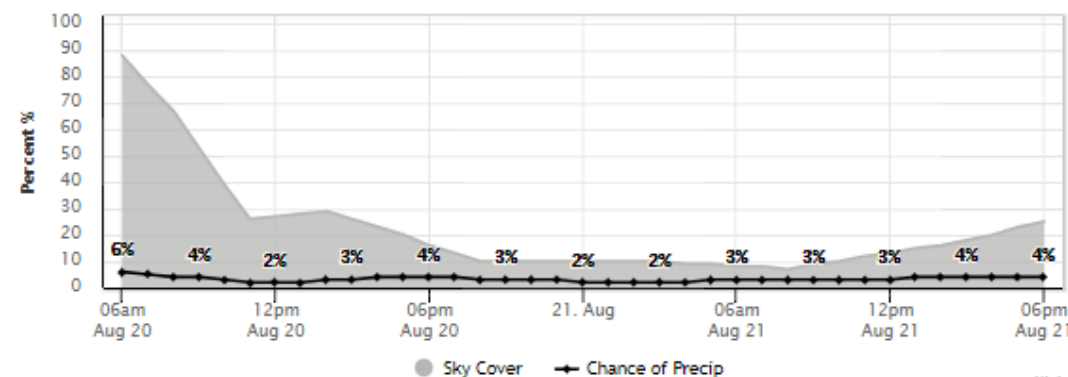
Summit forecast

- Shown is the NWS Burlington's summit forecast
- This Forecast has the summit cloud free tomorrow with mostly sunny skies

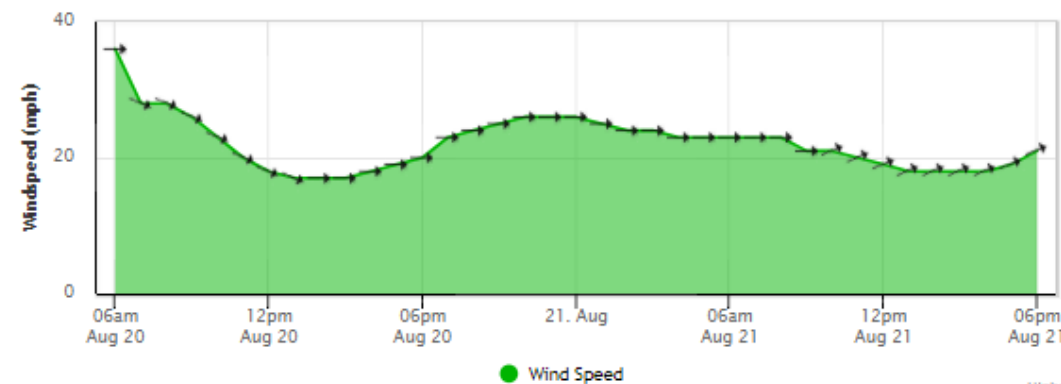
Temperature & Wind Chill Forecasts for Whiteface Mountain, NY at 4867'



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

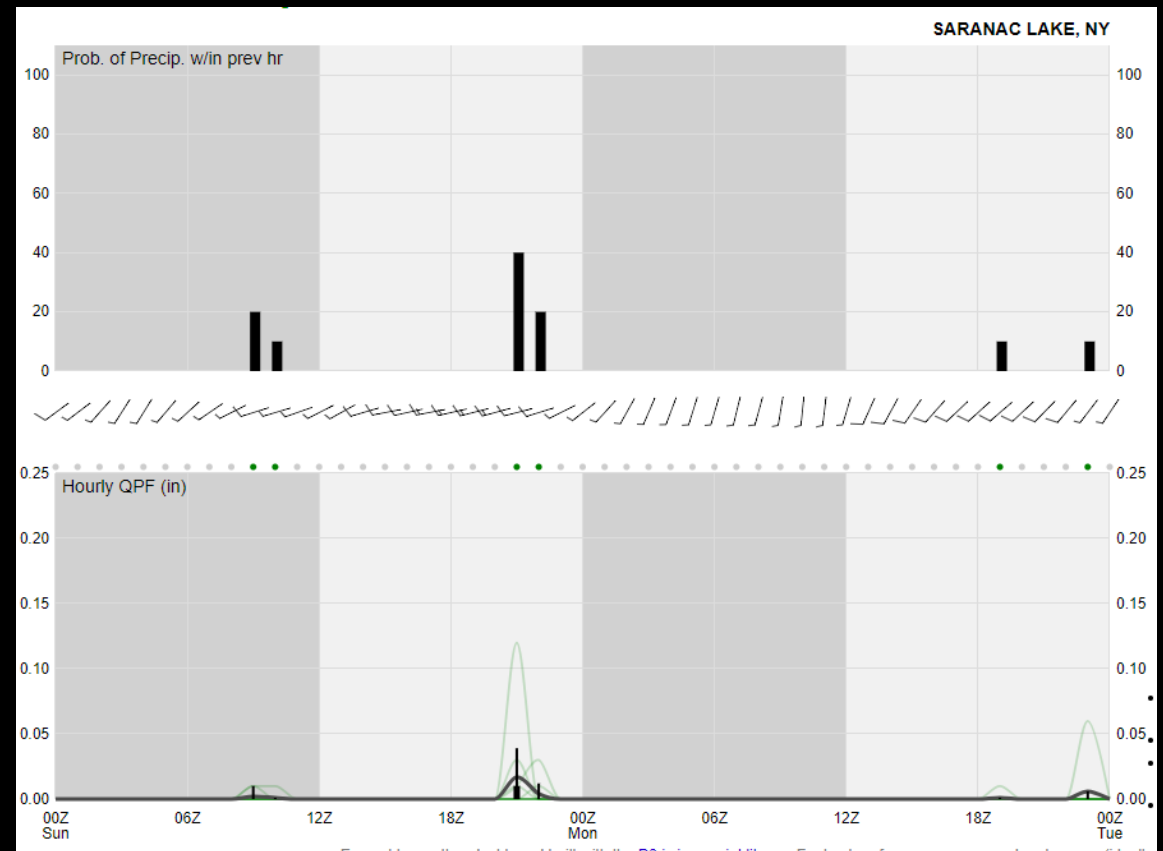
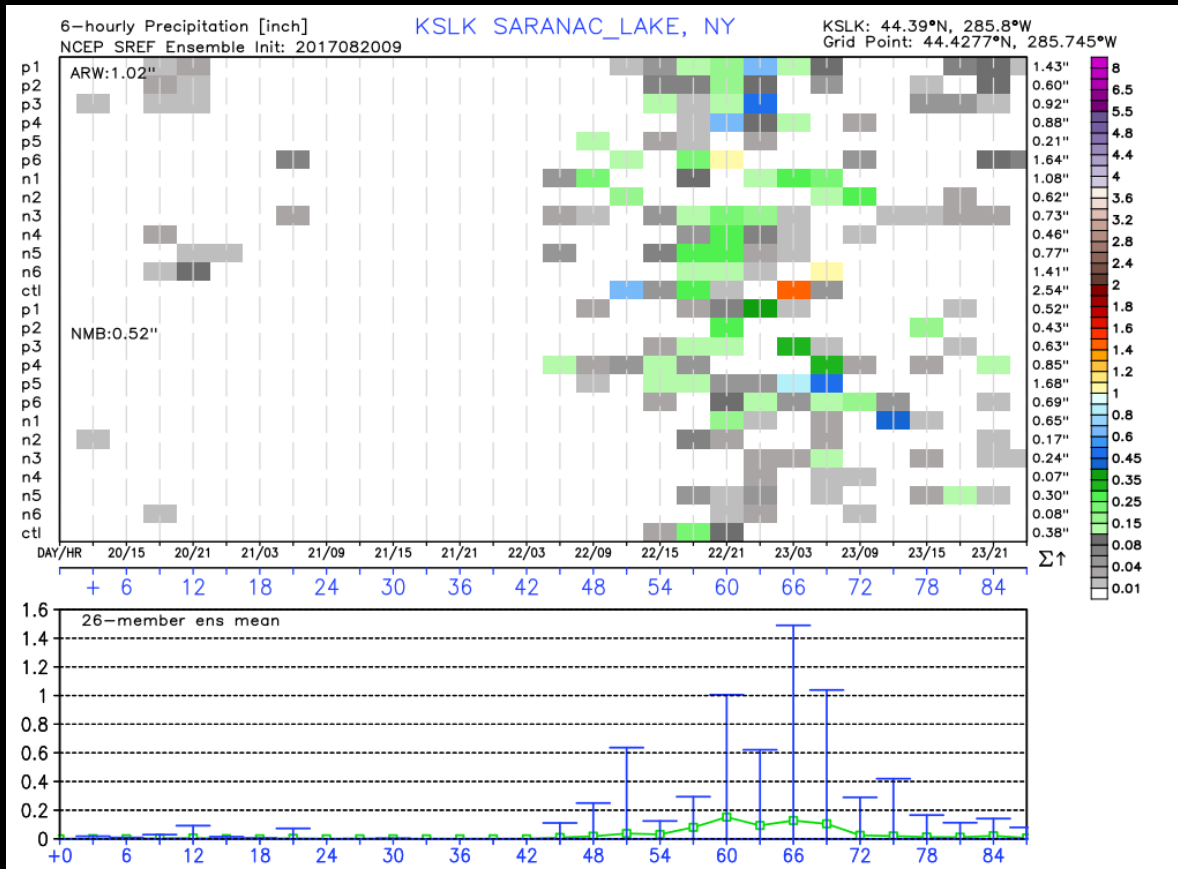


Wind Speed & Direction Forecasts for Whiteface Mountain, NY at 4867'



Precip Meteograms

- Left: NCEP SREF 9z 8/20 run showing 6 hourly precip
- Right: NCAR ensemble 0z 8/20 run showing probability of precip and hourly QPF
- Both models forecast tomorrow to be mainly dry
- The NCAR ensemble has slight chances of precip in the afternoon likely because chance of thunderstorms/isolated showers



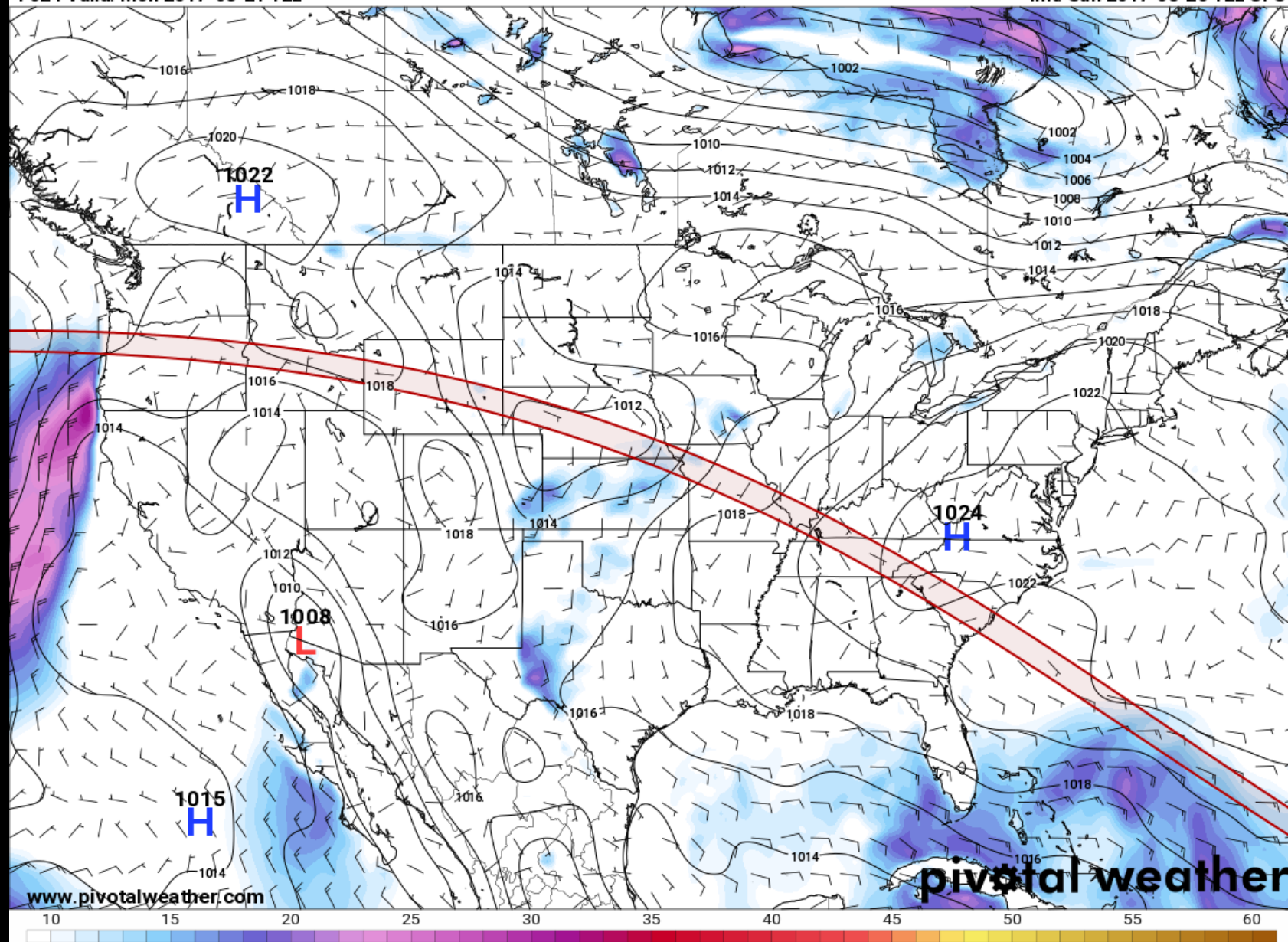
Synoptic weather

- Shown is the 8/20 12z GFS MSLP and 10m winds valid for 12z 8/21
- The high pressure system will be to the south but we will still likely be in an area of clear dry weather

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

F024 Valid: Mon 2017-08-21 12z

Init: Sun 2017-08-20 12z GFS



Day -1

Day 0

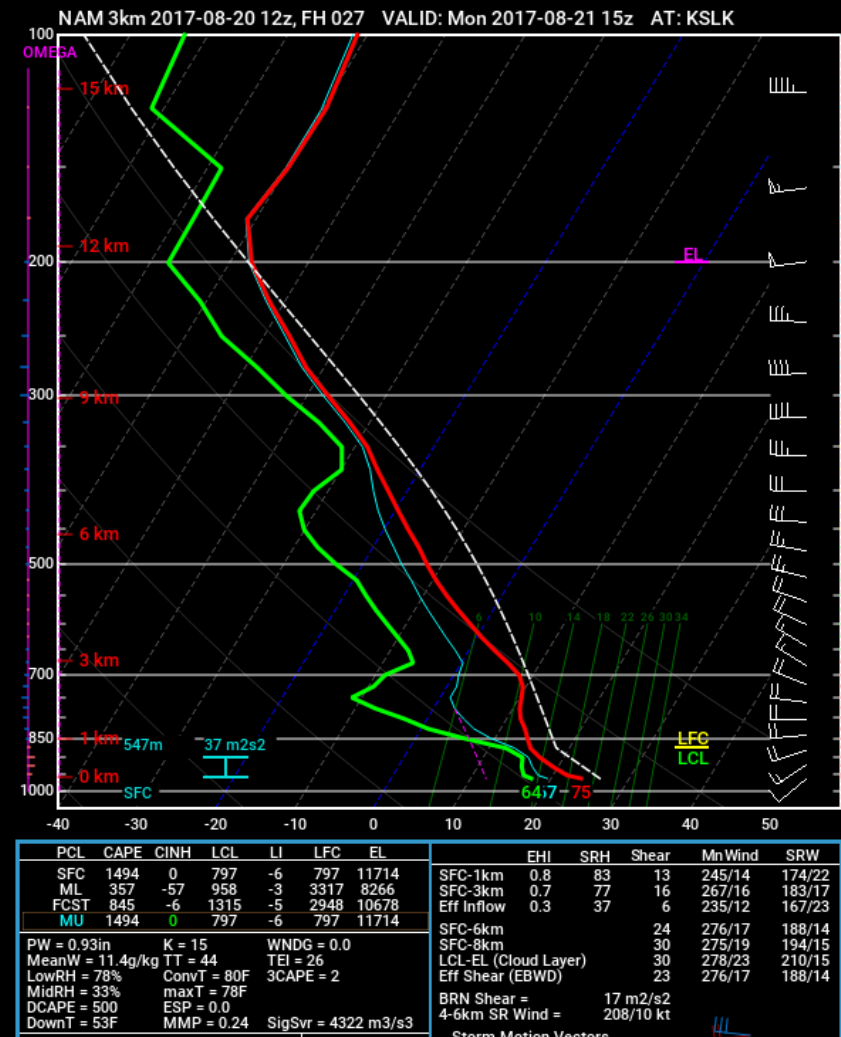
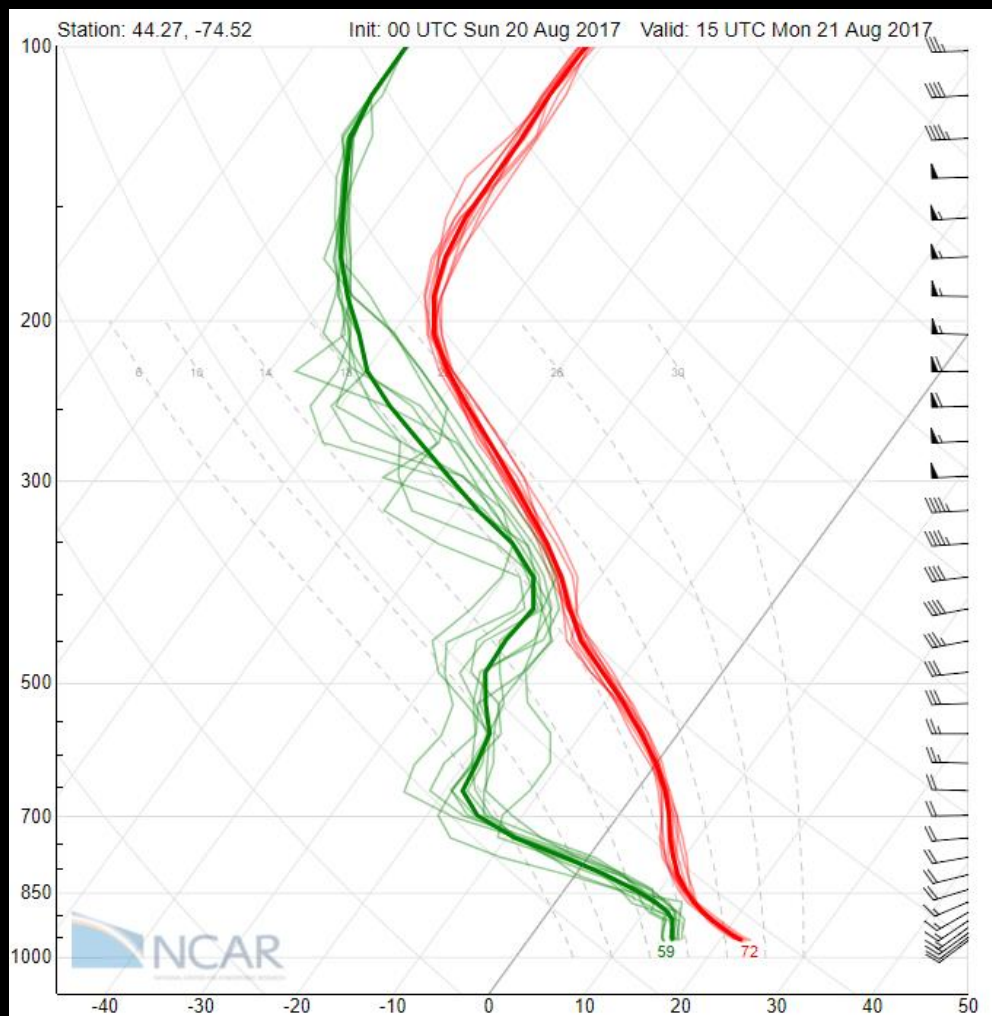
Day 1

Day 2

Day 3-5

Model Soundings

- Shown is the 8/20 12z 3km NAM sounding valid for 15z 8/21 and the 0z 8/20 NCAR ensemble sounding for 15z 8/21
- By 15z the inversion will be mixed out and the LCLs will be either just at the summit or above it
- Towering cumulus clouds may be possible due to moderate CAPE



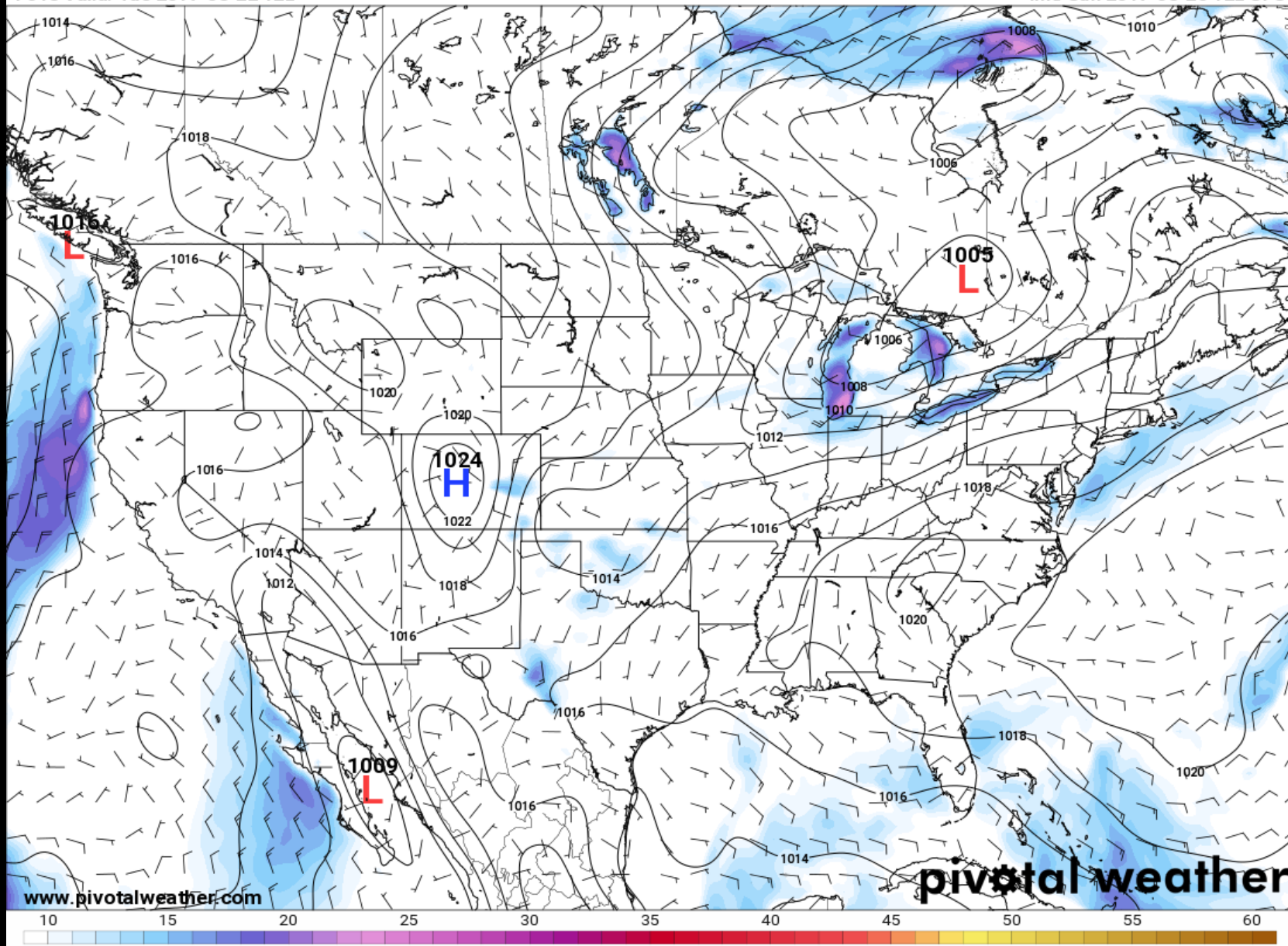
Long Term

- 12z 8/20 GFS run showing 6hr precip accumulation and MSLP for 12z 8/22
- A low pressure system will be to our North West, and will likely bring rain into the area Tuesday evening

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

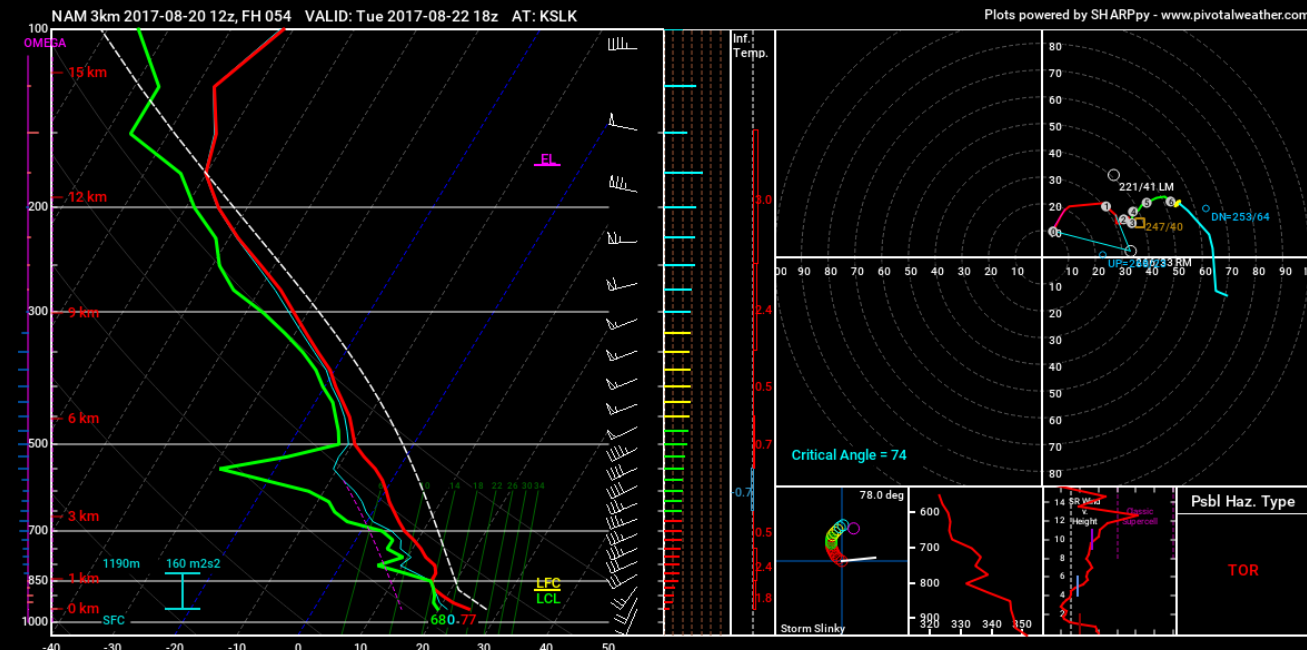
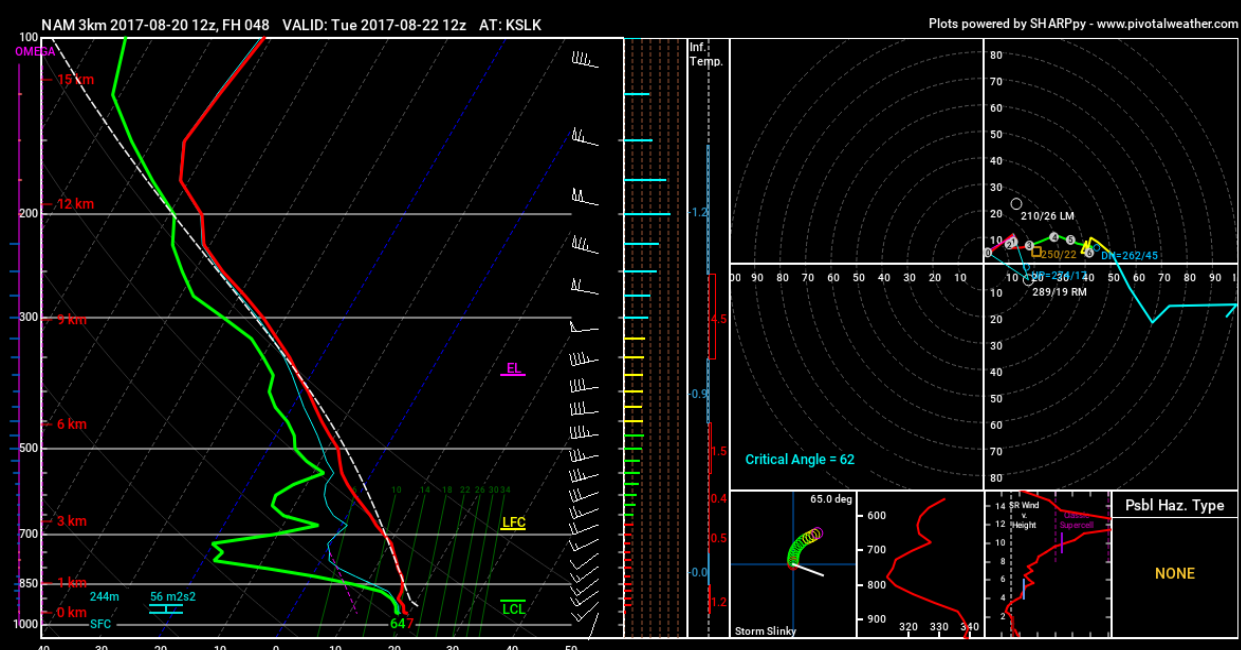
F048 Valid: Tue 2017-08-22 12z

Init Sun 2017-08-20 12z GFS



Sunday Model Soundings

- Shown is the 12z 8/20 3km NAM model soundings valid for 12z and 18z 8/22
- The forecasted LCL's are low enough to be a favorable day however there is a chance of severe thunderstorm with hail in the afternoon



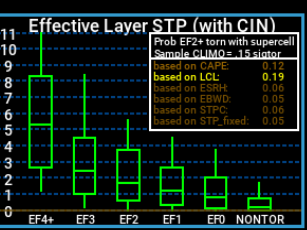
PCL	CAPE	CINH	LCL	LI	LFC	EL
SFC 186	-55	188	-1	2890	7251	
ML 60	-111	681	-3	3260	5274	
FCST 852	0	1414	-3	1414	11431	
MU 197	-45	413	-1	2268	7446	

PW	K	WINDG
PW = 0.94in	K = 13	WINDG = 0.0
MeanW = 12.0g/kg	TT = 40	TEI = 27
LowRH = 85%	ConvT = 80F	3CAPE = 0
MidRH = 23%	maxT = 81F	
DOAPE = 656	ESP = 0.0	
DownT = 52F	MMP = 0.22	SipSvr = 1228 m3/s3

SFC-1km	SRH	Shear	MnWind	SRW
SFC-1km 0.1	51	11	230/14	155/17
SFC-3km 0.1	68	17	235/14	157/15
Eff Inflow 0.1	56	12	221/9	139/18

SFC-6km	SFC-8km	Eff Shear (EBWD)	BRN Shear	4-6km SR Wind
SFC-6km 40	245/19	180/14	10 m2/s2	221/21 kt
SFC-8km 41	249/22	190/14		
Eff Shear (EBWD) 24	250/22	193/14		
BRN Shear = 10 m2/s2				
4-6km SR Wind = 221/21 kt				

SARS - Sounding Analogs	
SUPERCELL	SGFNT HAIL
No Quality Matches	No Quality Matches
(2 loose matches)	(35 loose matches)
SARS: 50% TOR	SARS: 31% SIG



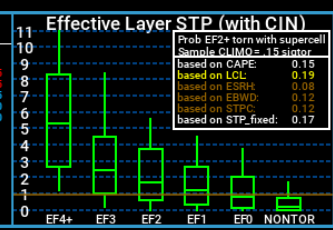
PCL	CAPE	CINH	LCL	LI	LFC	EL
SFC 1905	0	636	-7	636	12782	
ML 1056	-3	728	-6	1504	11921	
FCST 1805	0	1120	-7	1120	12602	
MU 1905	0	636	-7	636	12782	

PW	K	WINDG
PW = 1.43in	K = 38	WINDG = 0.6
MeanW = 14.5g/kg	TT = 51	TEI = 29
LowRH = 90%	ConvT = 78F	3CAPE = 102
MidRH = 63%	maxT = 81F	
DOAPE = 963	ESP = 1.1	
DownT = 57F	MMP = 0.57	SipSvr = 24648 m3/s3

SFC-1km	SRH	Shear	MnWind	SRW
SFC-1km 1.8	151	22	212/20	123/27
SFC-3km 2.1	174	30	236/27	139/17
Eff Inflow 1.9	160	24	217/21	126/25

SFC-6km	SFC-8km	Eff Shear (EBWD)	BRN Shear	4-6km SR Wind
SFC-6km 45	239/32	157/15	55 m2/s2	189/16 kt
SFC-8km 47	241/34	166/15		
Eff Shear (EBWD) 47	247/40	195/14		
BRN Shear = 55 m2/s2				
4-6km SR Wind = 189/16 kt				

SARS - Sounding Analogs	
SUPERCELL	SGFNT HAIL
(21 loose matches)	(35 loose matches)
SARS: 52% TOR	SARS: 31% SIG



Long Term

- 12z 8/20 GFS run showing 6hr precip accumulation and MSLP for 12z 8/23
- The low pressure system will have moved to our north east, lingering showers may be likely

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

F072 Valid: Wed 2017-08-23 12z

Init Sun 2017-08-20 12z GFS

