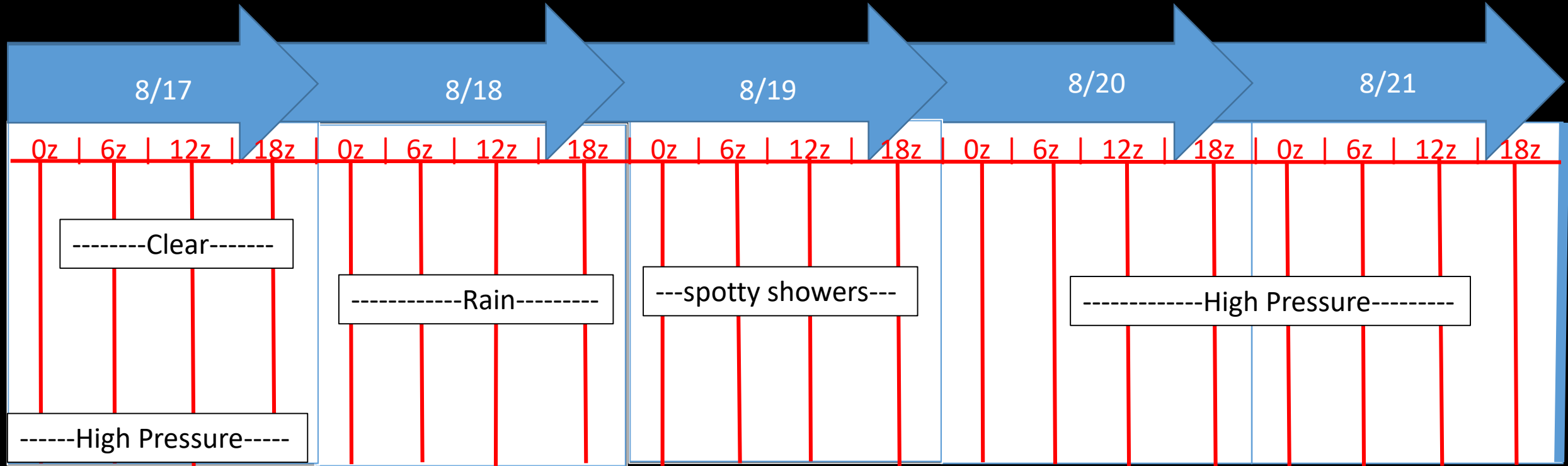


Forecast for 8/17-8/21

Forecaster: Matthew Brewer

Forecast made: 8/16/2017

Outlook



Day -1

Day 0

Day 1

Day 2

Day 3-5

Overview for Day 8/17

- Dominated by high pressure
- Dry, Clear day with very few clouds

Day -1

Day 0

Day 1

Day 2

Day 3-5

Overview for 8/18

- Rain likely throughout the day
- Low confidence in start time of precip, will become more clear with closer model runs
- If rain holds off until later in the day clouds may form below summit

Day -1

Day 0

Day 1

Day 2

Day 3-5

Overview for Day 3-5

- Saturday- shower possible in the morning as the low move out of the area
- Sunday- High to move into the area and bringing in drier weather
- Monday- High will be located directly over head, creating dry and clear weather good for solar eclipse viewing

Day -1

Day 0

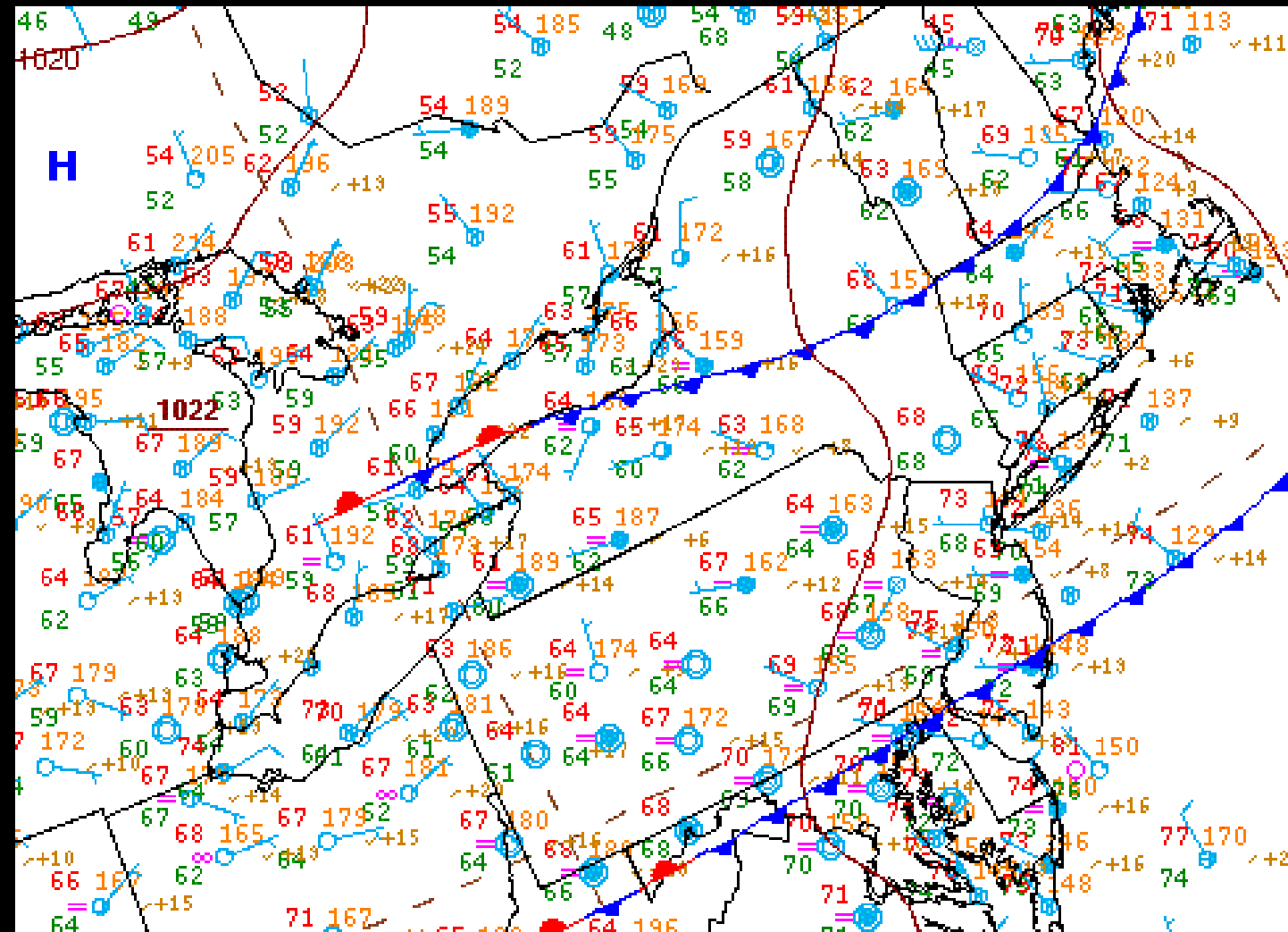
Day 1

Day 2

Day 3-5

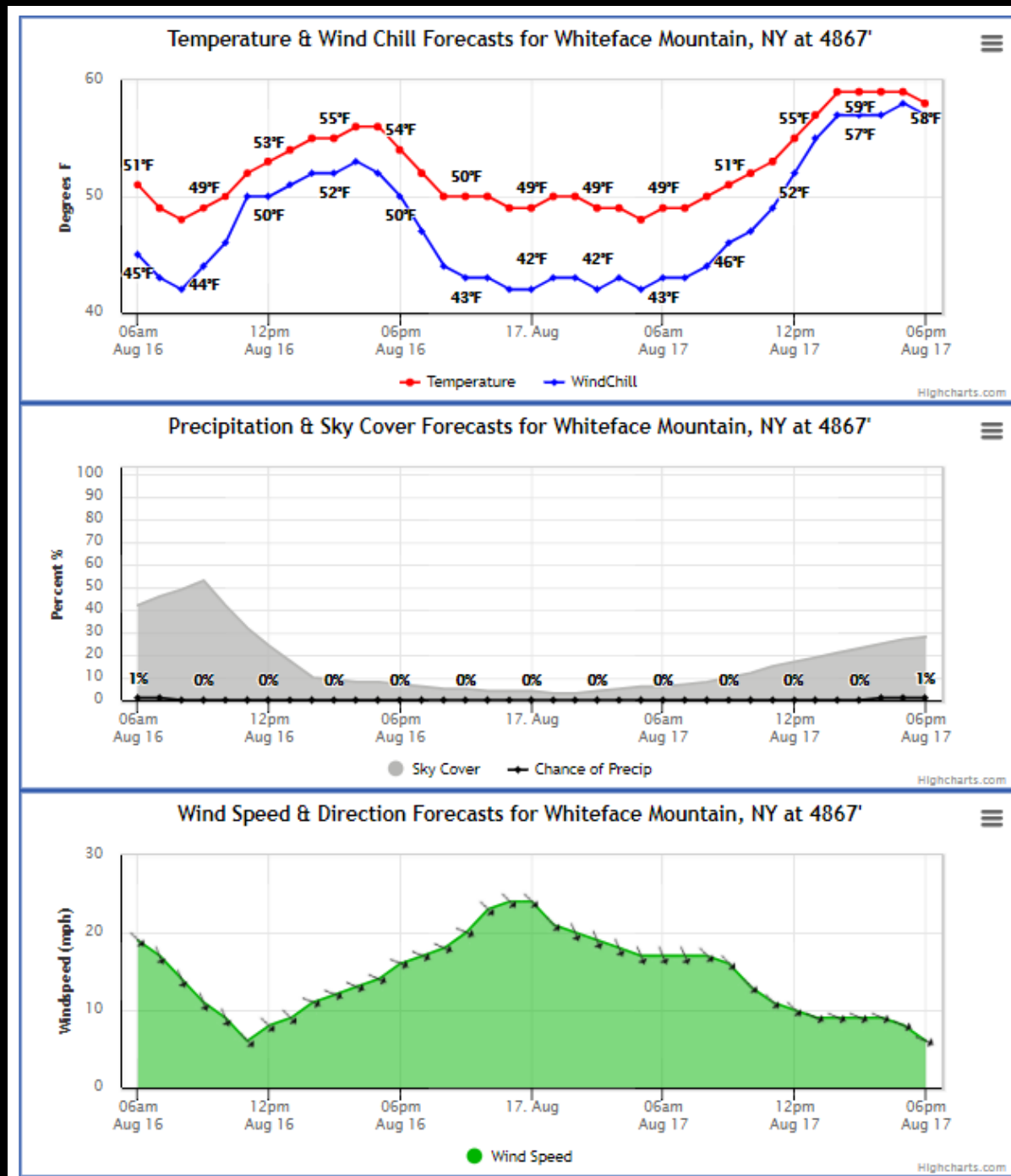
Current Surface Analysis

- Shown is the NOAA WPC surface analysis from 12z 8/16/2017
- The high pressure system is working into our area today giving us calm dry weather



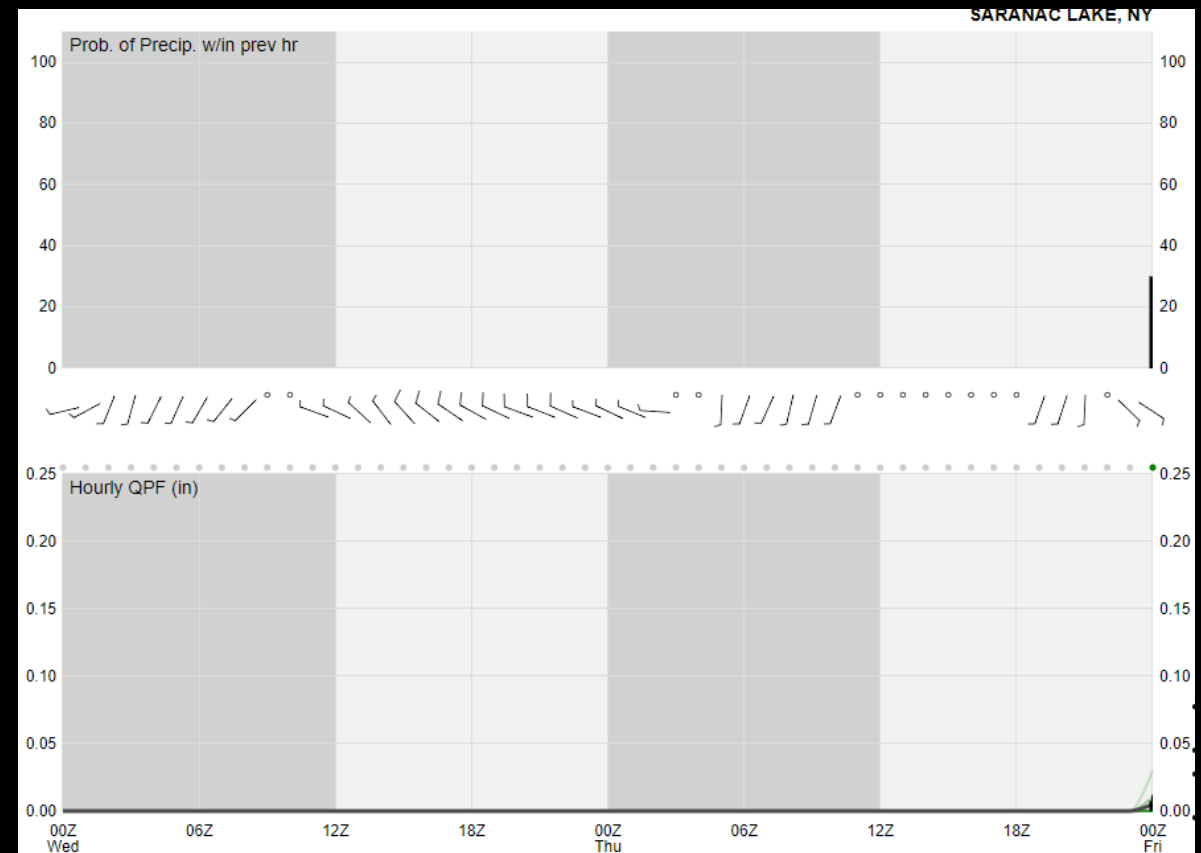
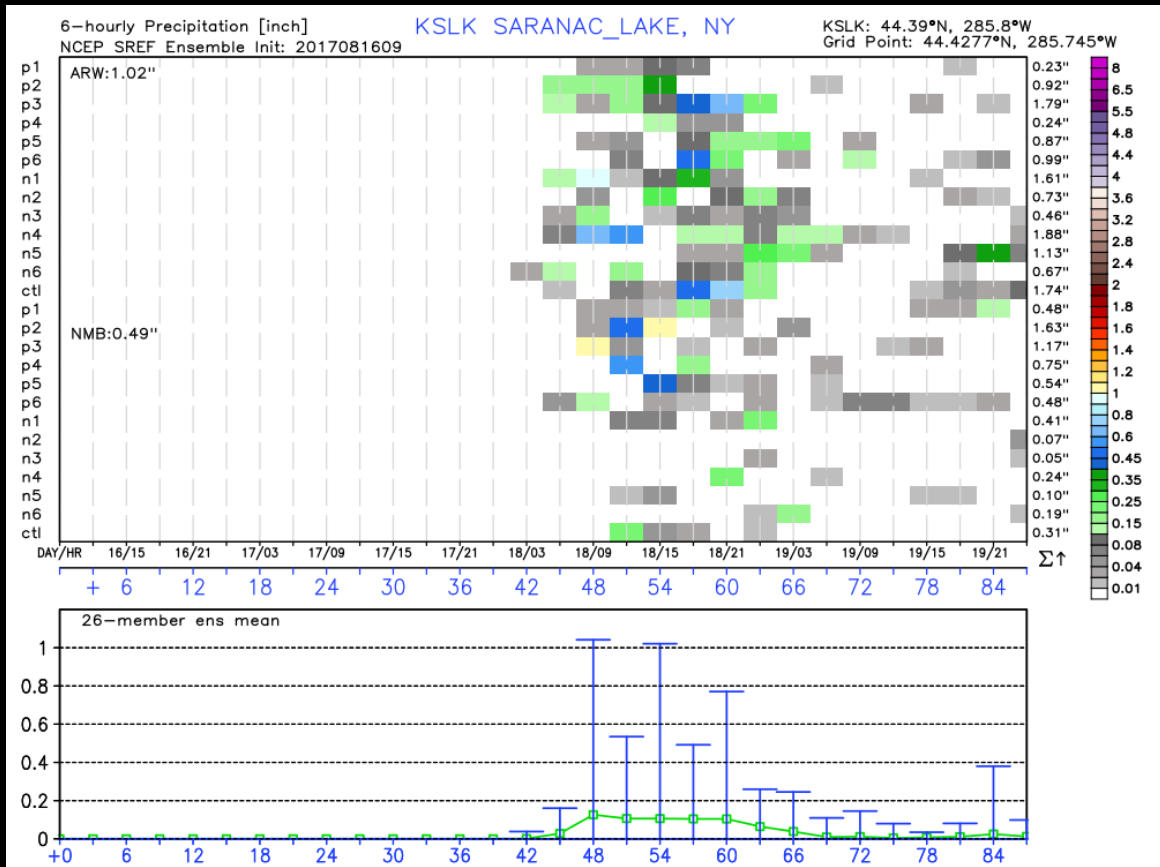
Summit forecast

- Shown is the NWS Burlington's summit forecast
- The forecast show the chance precip this evening with tomorrow being dry and becoming gradually cloud free
- Winds will shift to more NW as the high moves in tomorrow



Precip Meteograms

- Left: NCEP SREF 9z 8/15 run showing 6 hourly precip
- Right: NCAR ensemble 0z 8/15 run showing probability of precip and hourly QPF
- Both models forecast the rest of today and tomorrow being completely dry
- Later in the SREF you can see the forecast for the precip associated with the low pressure system moving into the area Thursday night, affecting us throughout the day Friday



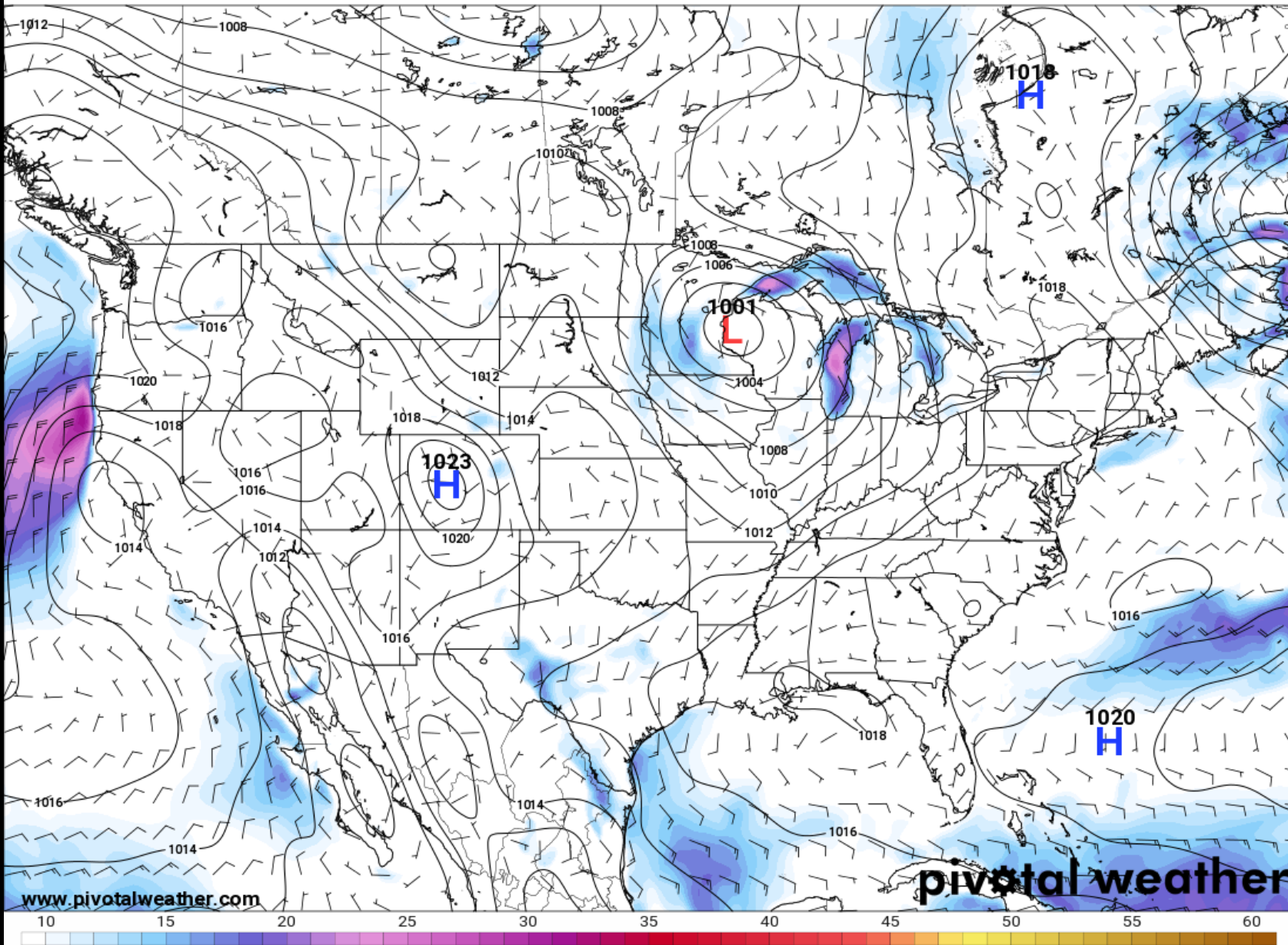
Synoptic weather

- Shown is the 8/16 12z GFS MSLP and 10m winds valid for 12z 8/17
- The high pressure system will remain in our area for much of the day keeping the weather dry and skies clear
- The low pressure system will start to move into the area Thursday evening

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

F024 Valid: Thu 2017-08-17 12z

Init: Wed 2017-08-16 12z GFS



Day -1

Day 0

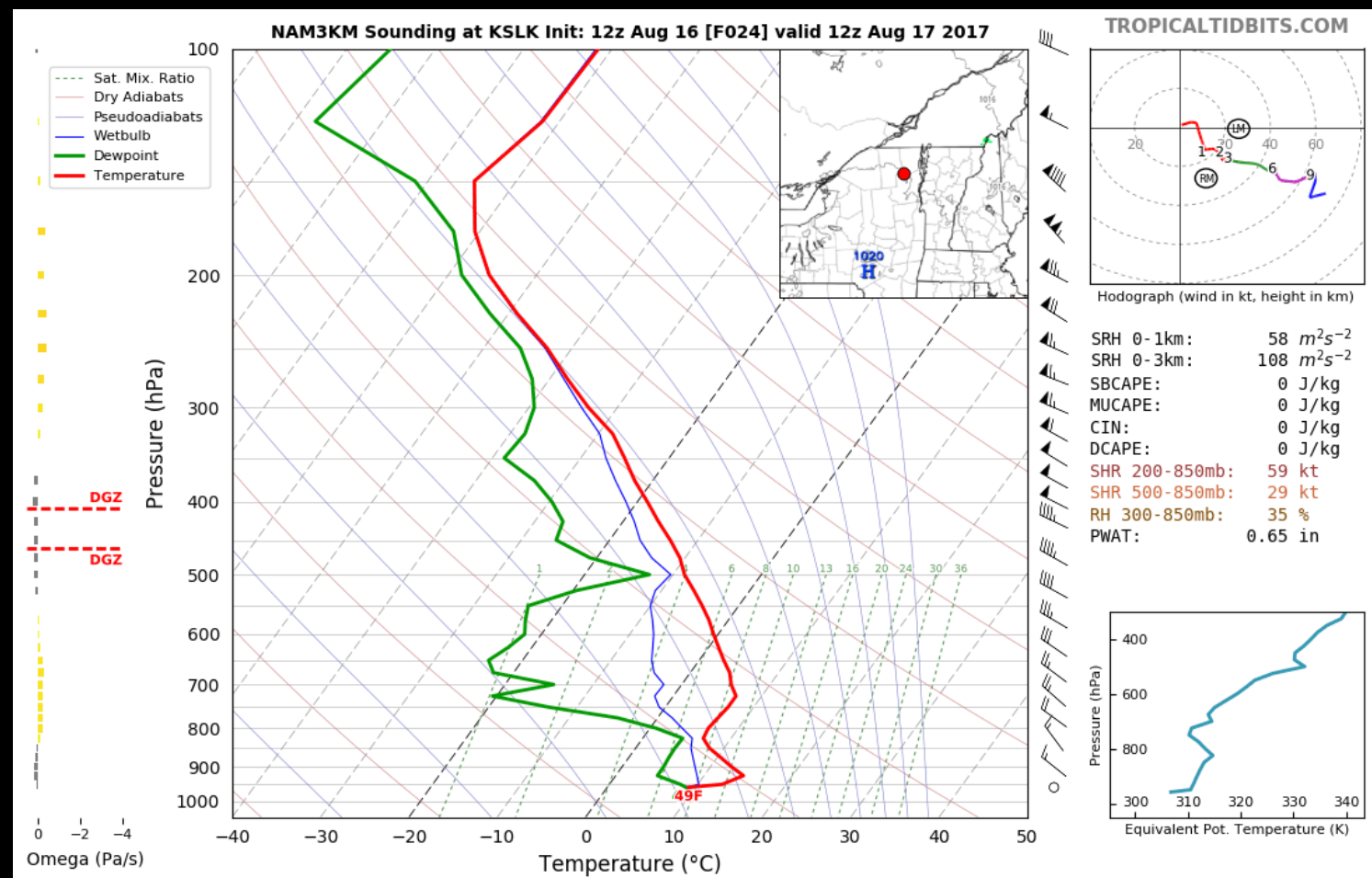
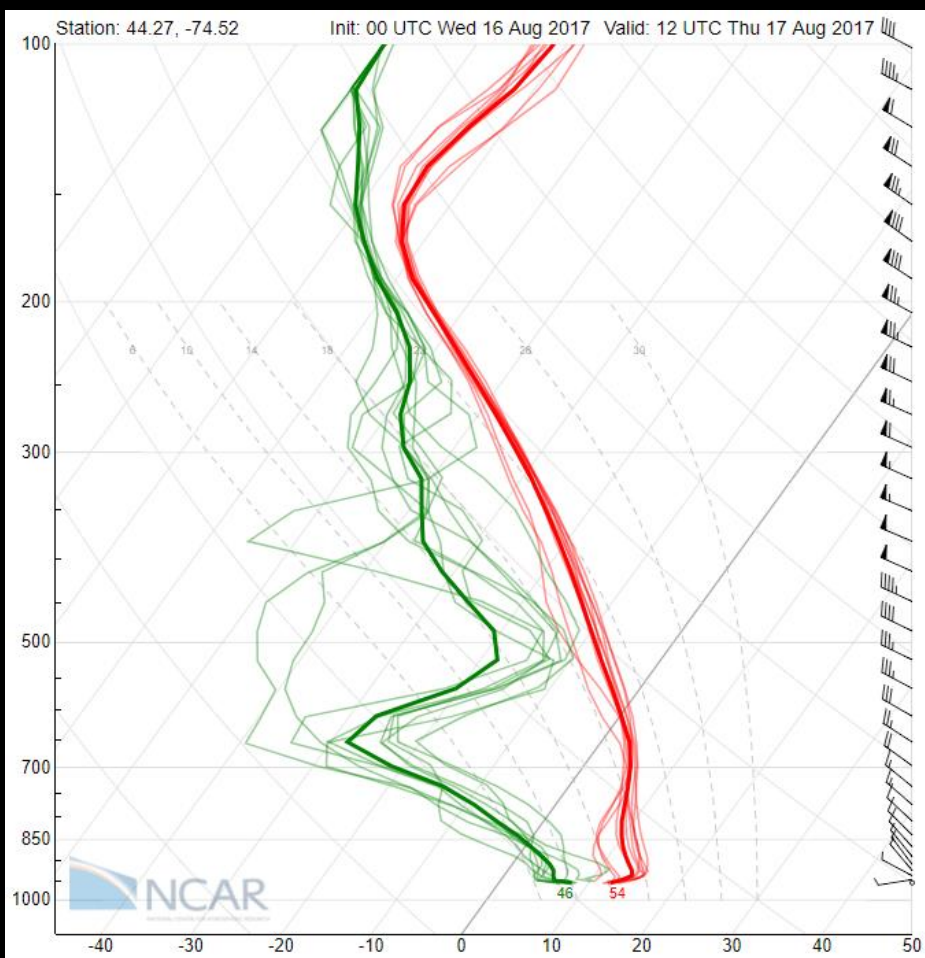
Day 1

Day 2

Day 3-5

Model Soundings

- Shown is the 8/15 12z 3km NAM sounding valid for 12z 8/16 and the 0z 8/15 NCAR ensemble sounding for 12z 8/16
- Spread in the NCAR ensemble give me low confidence on forecasting an LCL some member show the LCL at 850 while others have the lower troposphere very dry
- The NAM sounding is similar to some of the more moist NCAR members giving a possible lower LCL, however is a cloud were to form entrainment of dry air aloft may prevent cloud formation



Day -1

Day 0

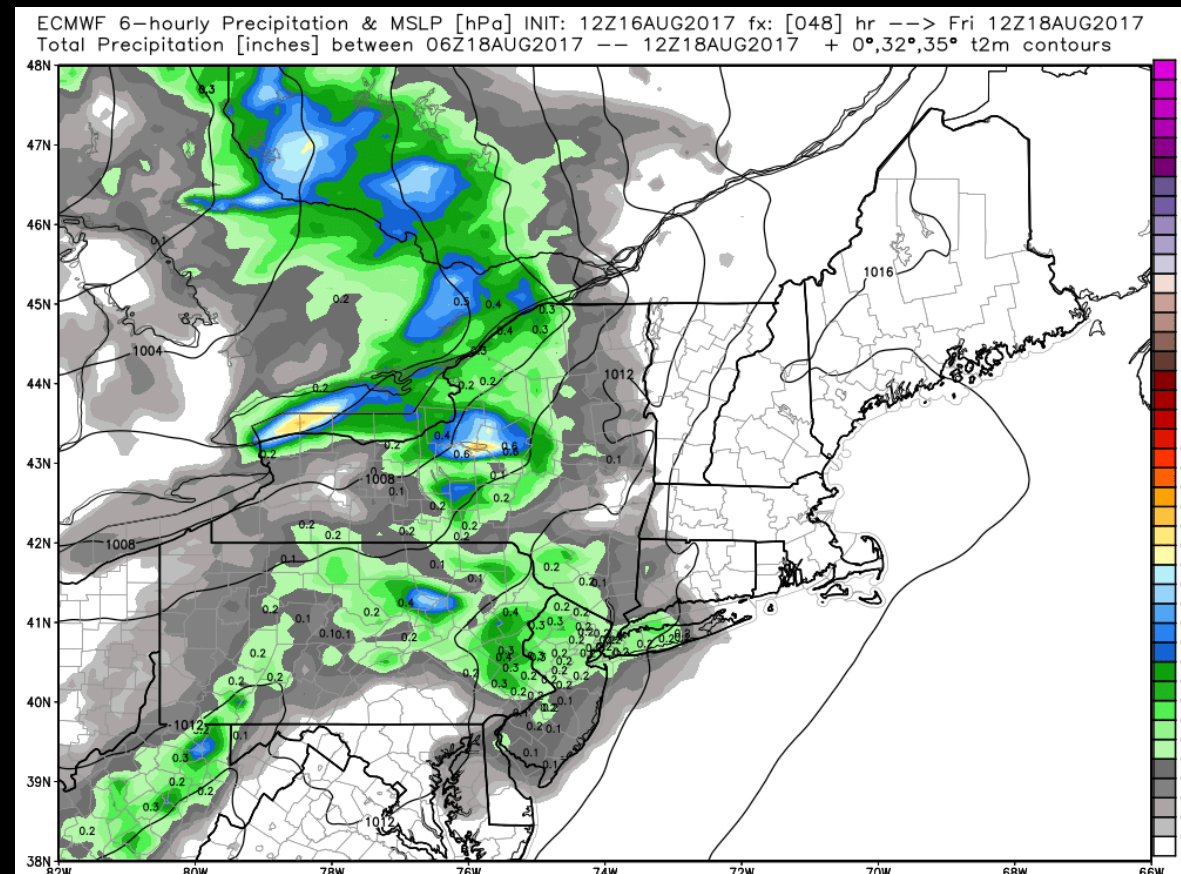
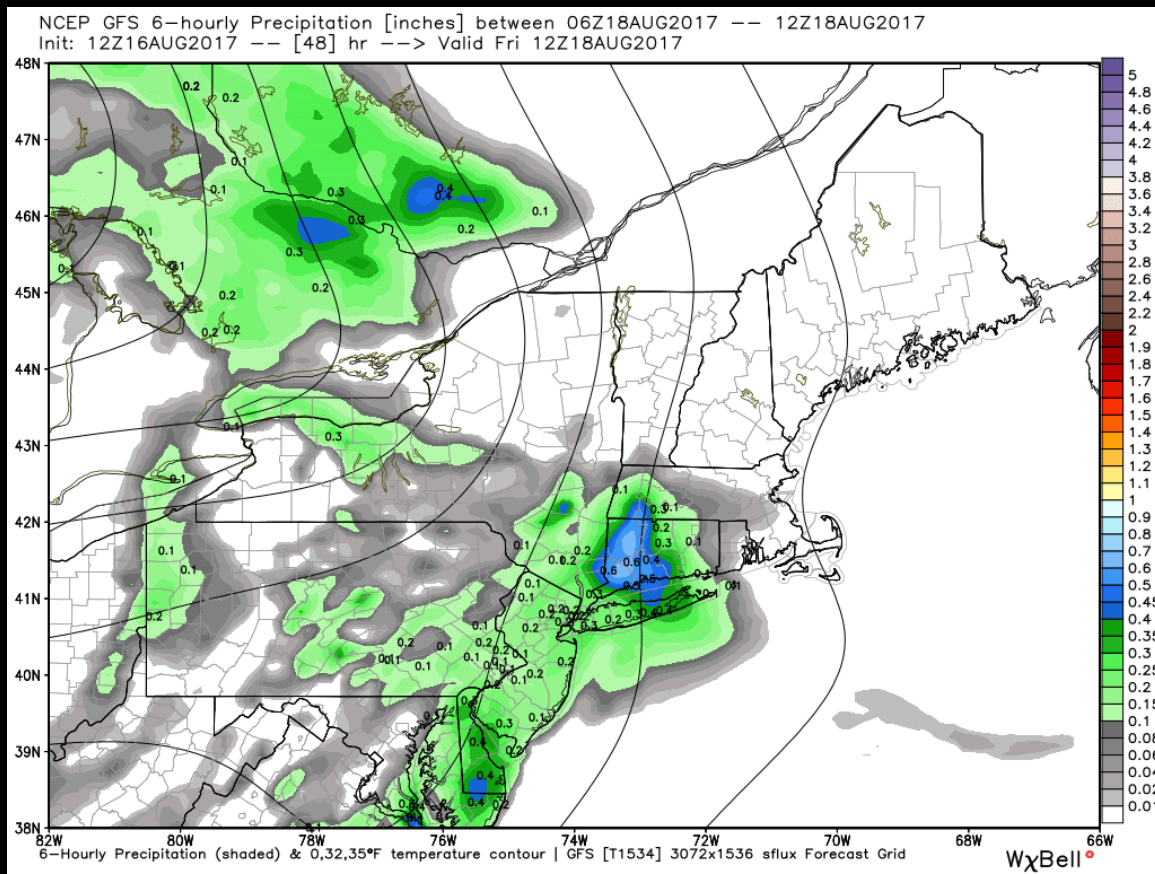
Day 1

Day 2

Day 3-5

Friday Precip

- Right: 12z 8/16 ECMWF run showing 6hr precip accumulation and MSLP for 12z 8/18
- Left: 12z 8/16 GFS run showing 6hr precip accumulation and MSLP for 12z 8/18
- The Euro has precip moving into the region earlier than the GFS
- If the GFS verifies Friday morning may be favorable for summit in clouds during the morning
- Timing the start of the rain will likely become clearer tomorrow with closer model runs



Day -1

Day 0

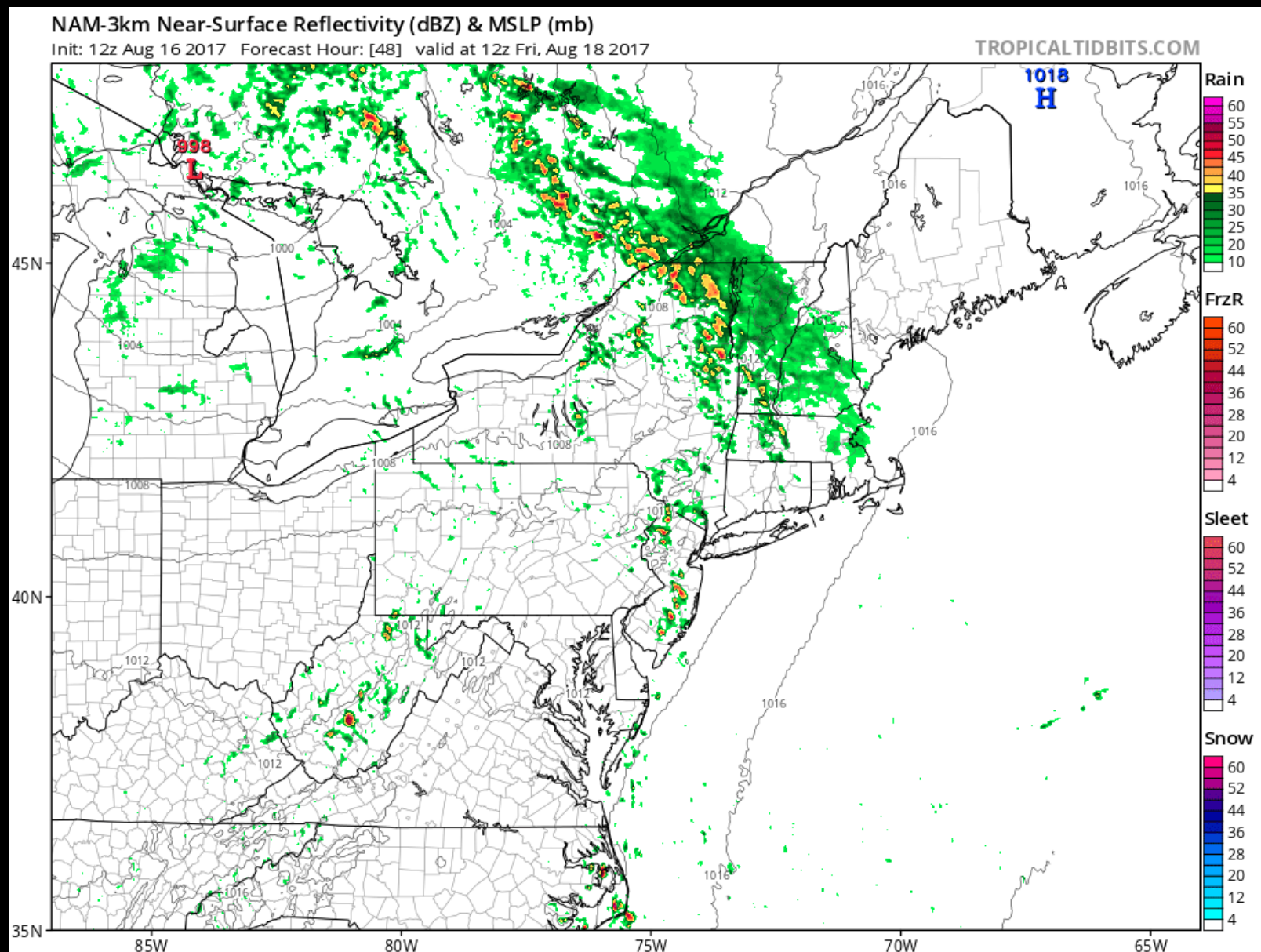
Day 1

Day 2

Day 3-5

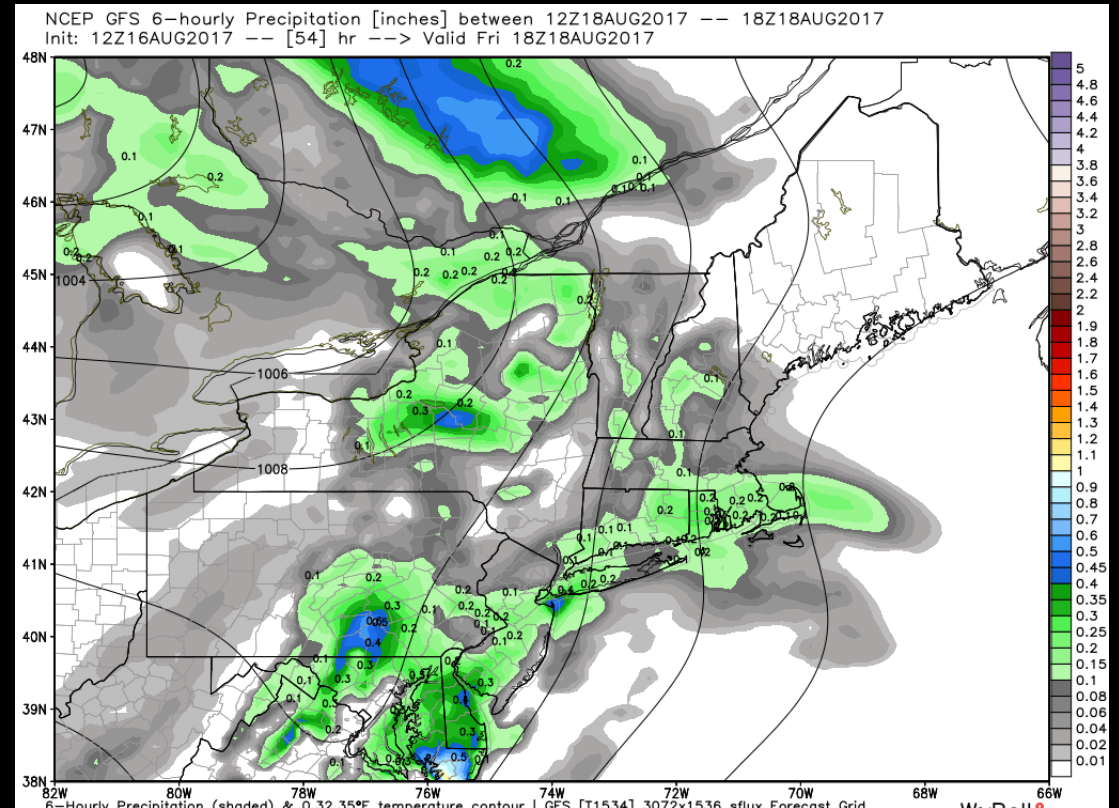
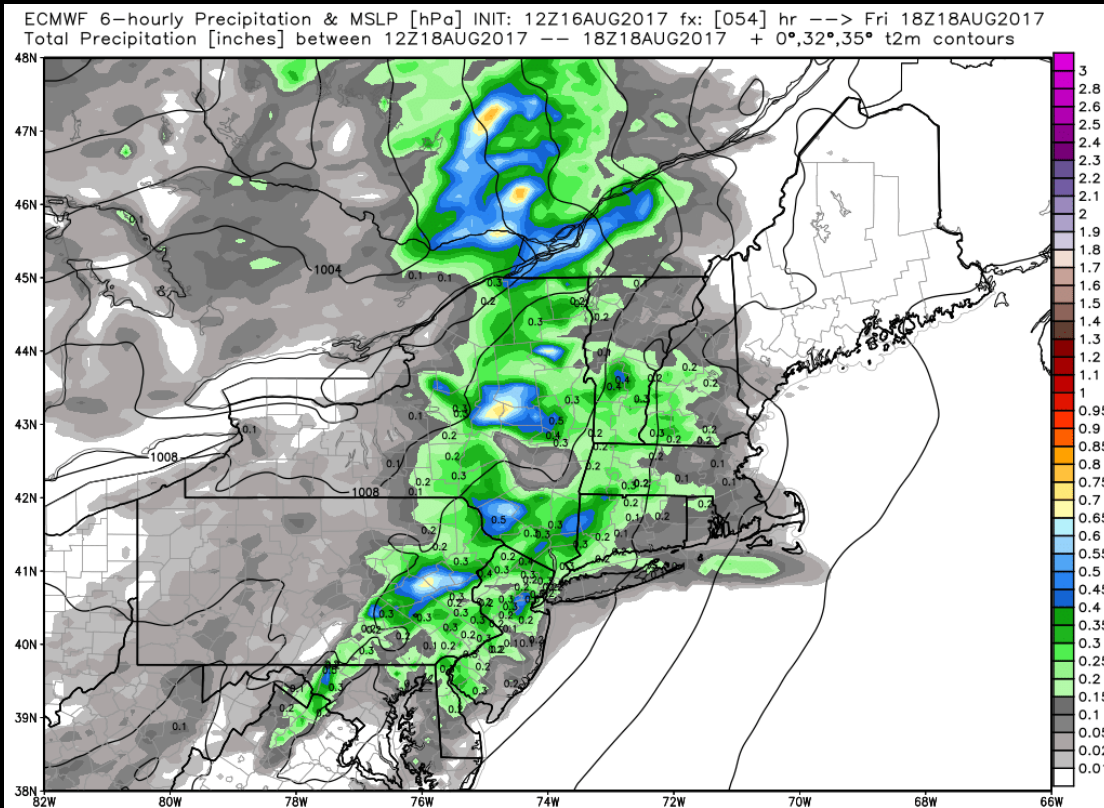
Friday Precip

- 12z 8/16 3-km NAM Surface Reflectivity and MSLP valid for 12z 8/18
- The NAM is forecasting the precip to be definitely affecting our area by 12z however this forecast is far out in the NAM forecast thus I expect it to change tomorrow



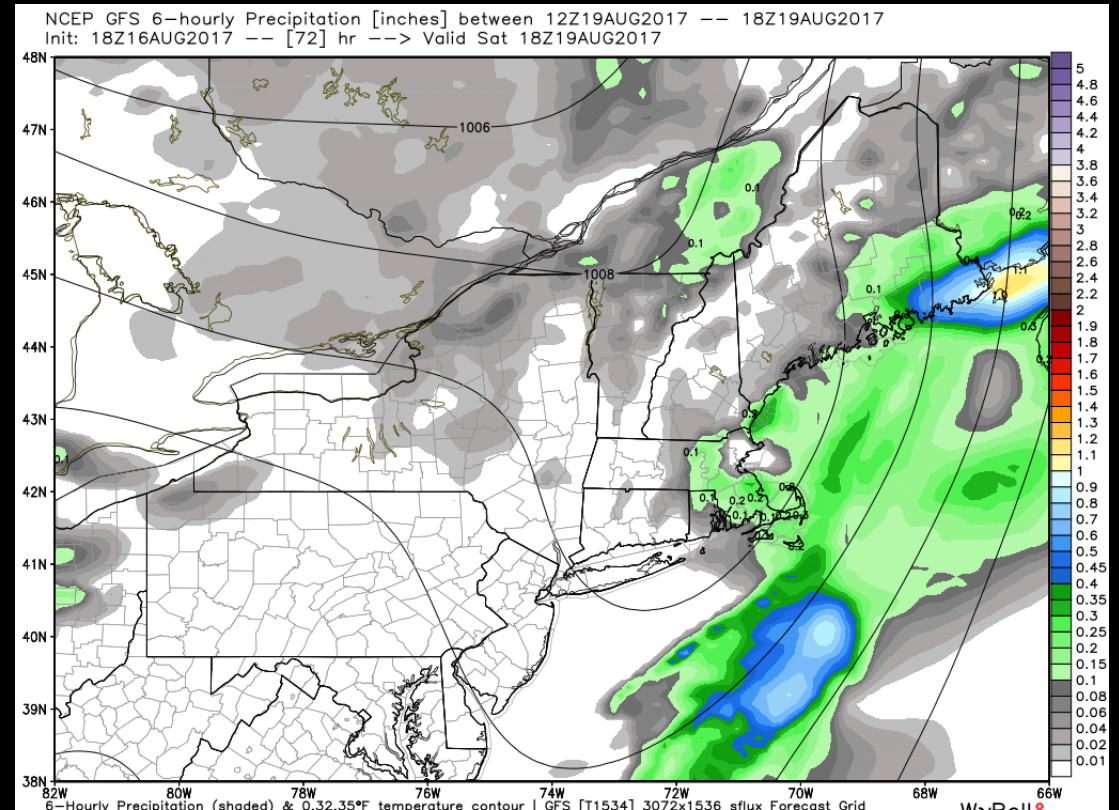
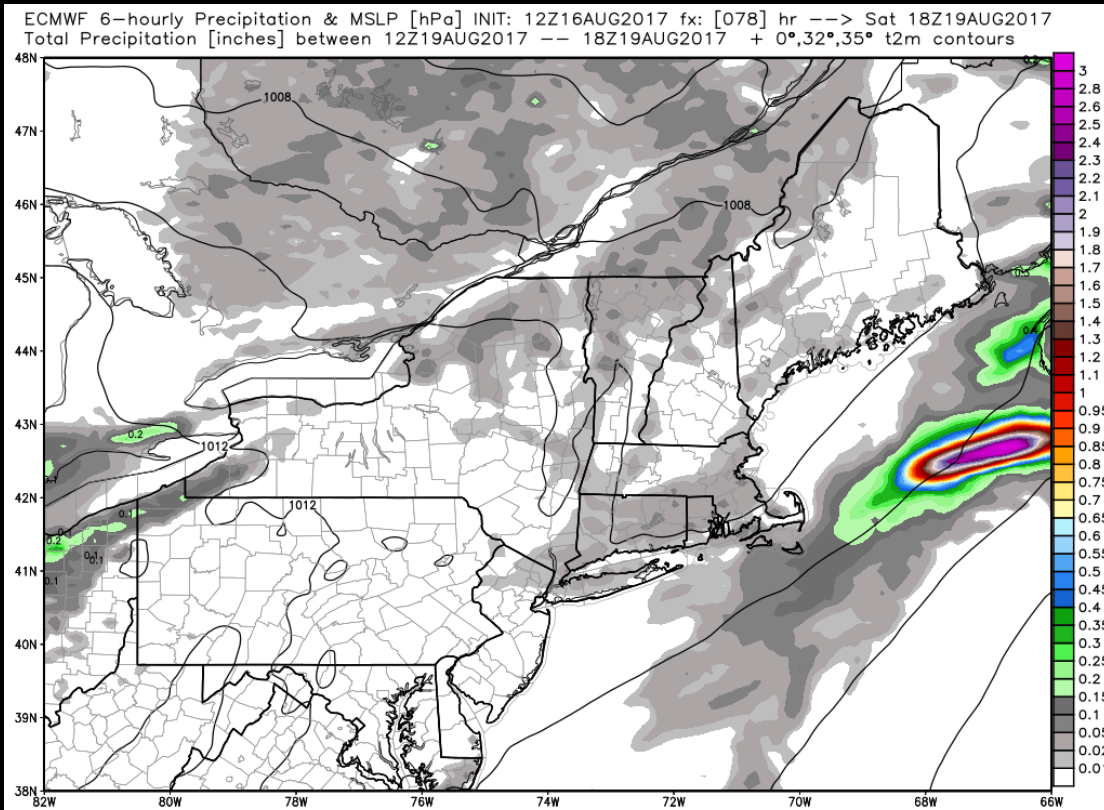
Friday Precip

- Left: 12z 8/16 ECMWF run showing 6hr precip accumulation and MSLP for 18z 8/18
- Right: 12z 8/16 GFS run showing 6hr precip accumulation and MSLP for 18z 8/18
- Both model are in agreeance about precip in the after, again timing will become more apparent with use of shorter range hi-res models



Long Term

- Left: 12z 8/16 ECMWF run showing 6hr precip accumulation and MSLP for 18z 8/19
- Right: 12z 8/16 GFS run showing 6hr precip accumulation and MSLP for 18z 8/19
- Showers may be possible Saturday but will likely be spotty and light



Long Term

- 12z 8/16 GFS run showing 6hr precip accumulation and MSLP for 12z 8/20
- An area of high pressure will start to move into the area, likely to be dry as the low pressure moves out

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

F096 Valid: Sun 2017-08-20 12z

Init: Wed 2017-08-16 12z GFS

