

2-3 Day Weather Forecast

Forecast Date: 05/20/2016

Valid Date: 05/20/2016 and beyond

Coastal VA

Penn State Team

Present/Update Cloud Cover Condition and Precipitation System moving towards E/NE driven by prevailing synoptic westerly

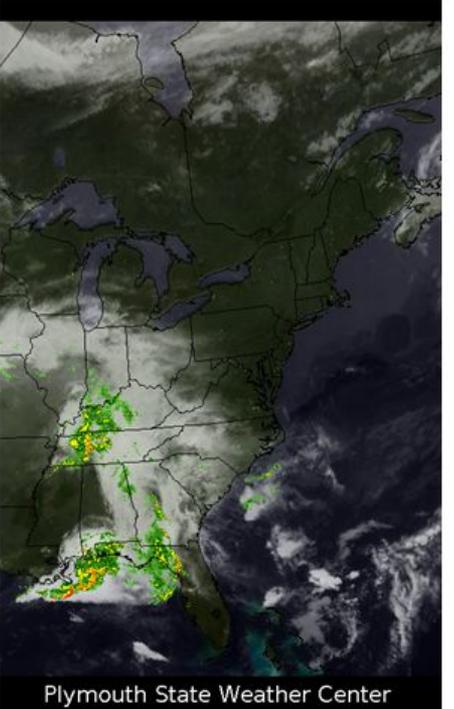
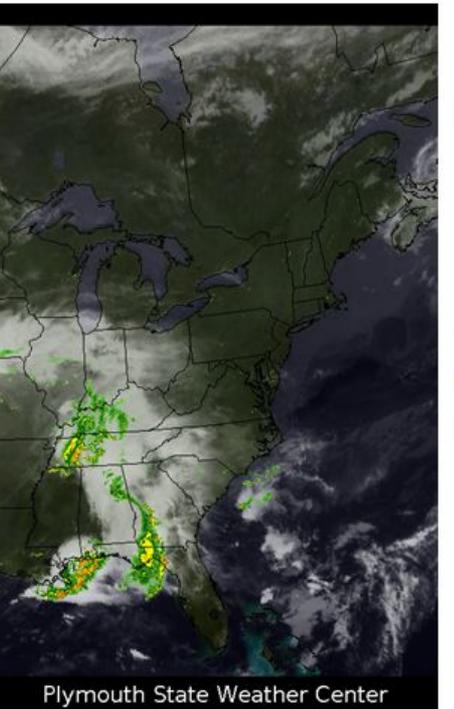
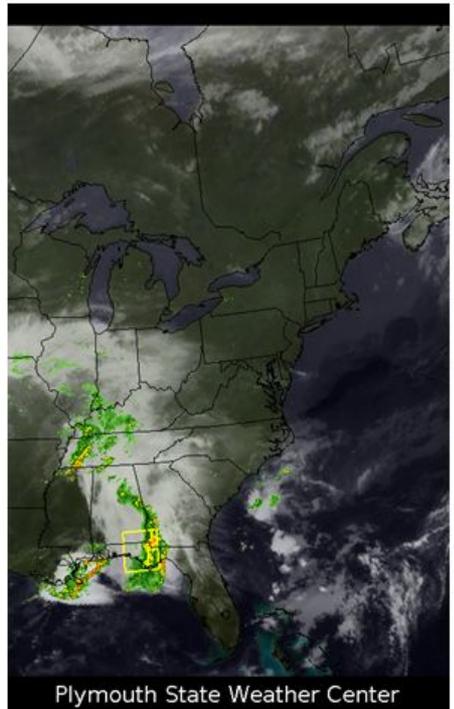
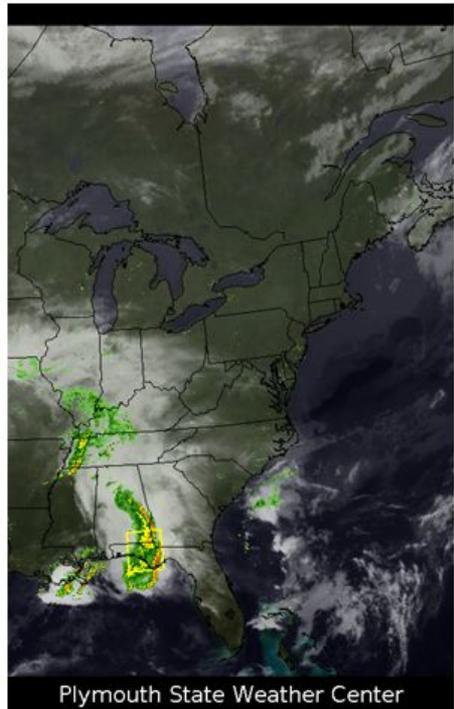
CONUS Satellite/Radar/Warning Composite: **GOES IR Satellite/NEXRAD Radar**

12:00 Z

13:00 Z

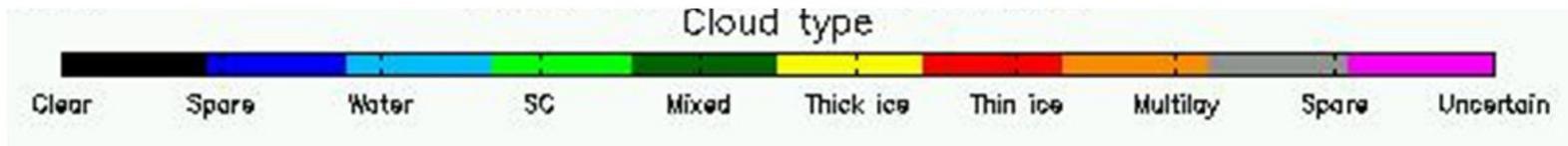
14:00 Z

15:00 Z



Present/Update Cloud Cover Condition and Precipitation System moving towards E/NE driven by prevailing synoptic westerly

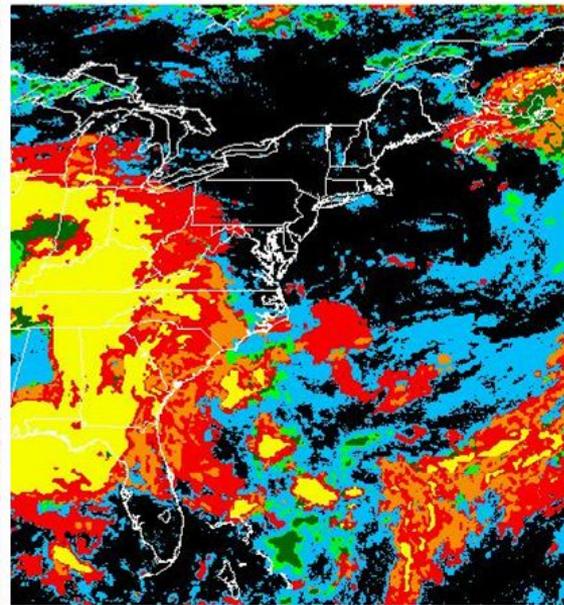
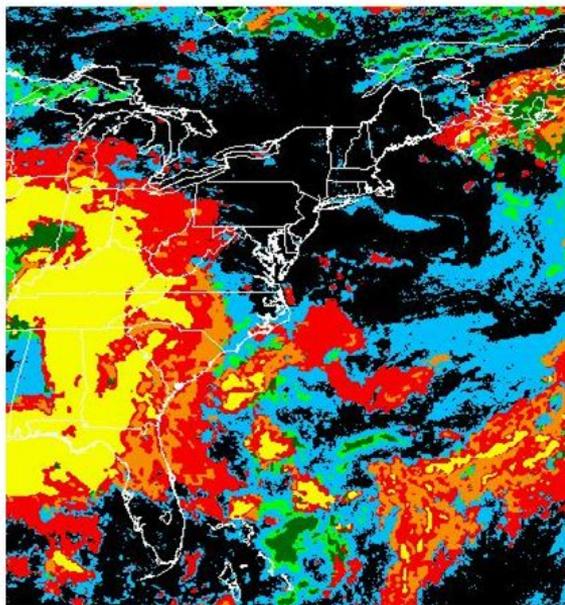
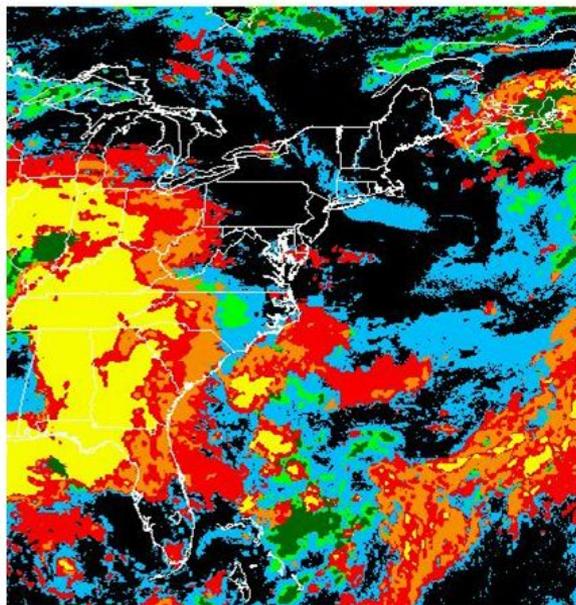
GEOstationary Cloud Algorithm Test-bed (GEOCAT)



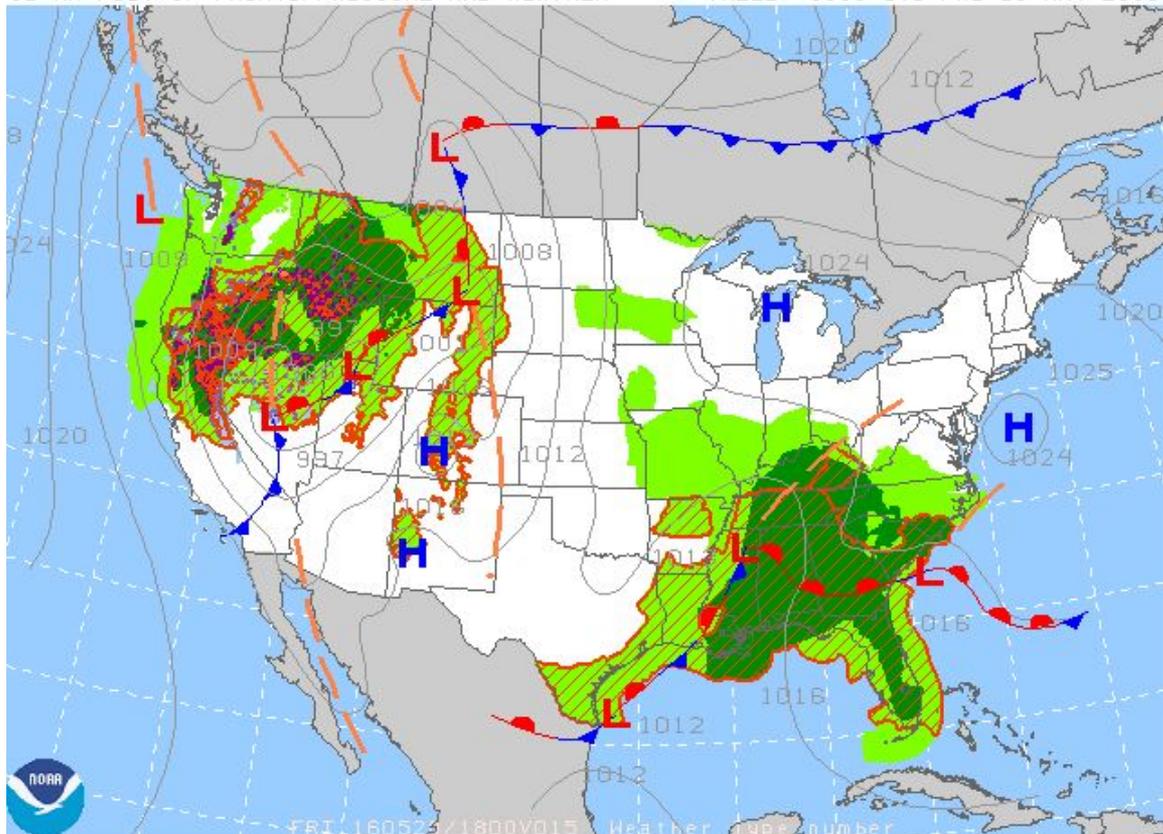
13:00 Z

14:00 Z

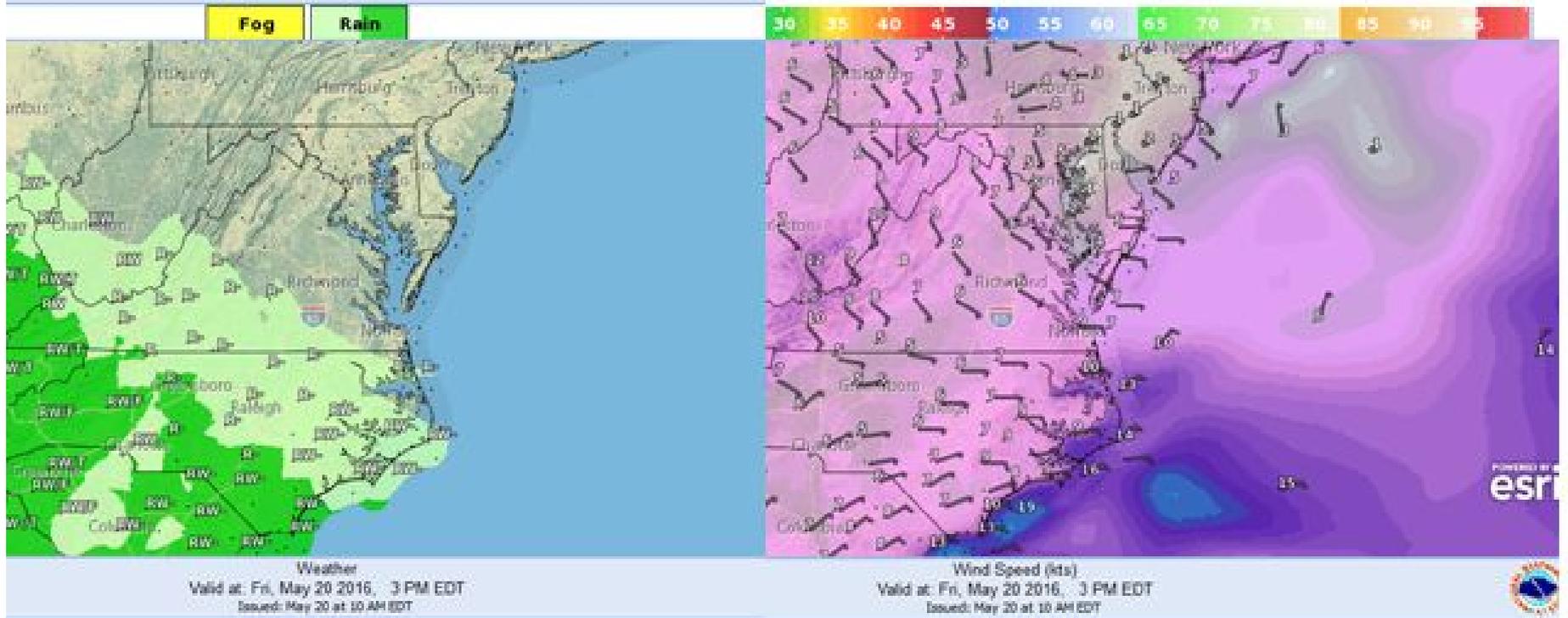
15:00 Z



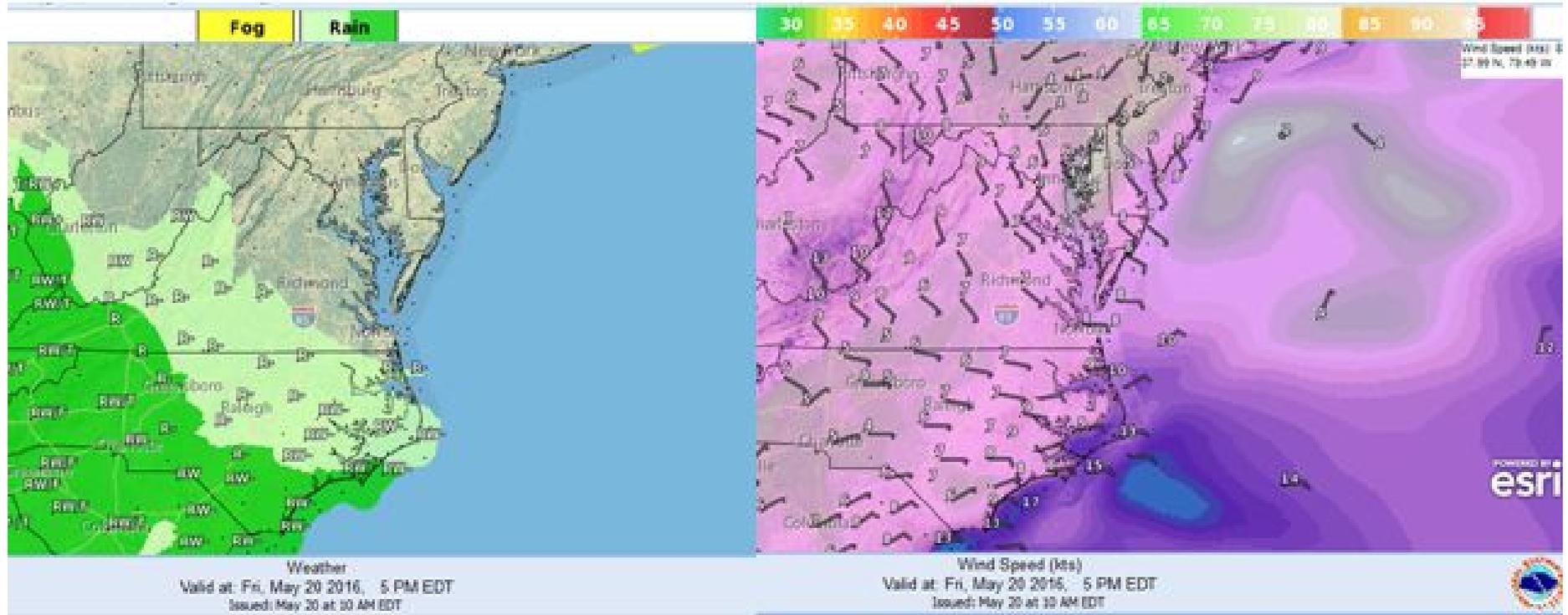
[http://cimss.ssec.wisc.edu/geocat/index.php?view=animation®ion=goes_east_2_conus&products\[\]=ctype](http://cimss.ssec.wisc.edu/geocat/index.php?view=animation®ion=goes_east_2_conus&products[]=ctype)



Friday: May 20: 3 pm EDT



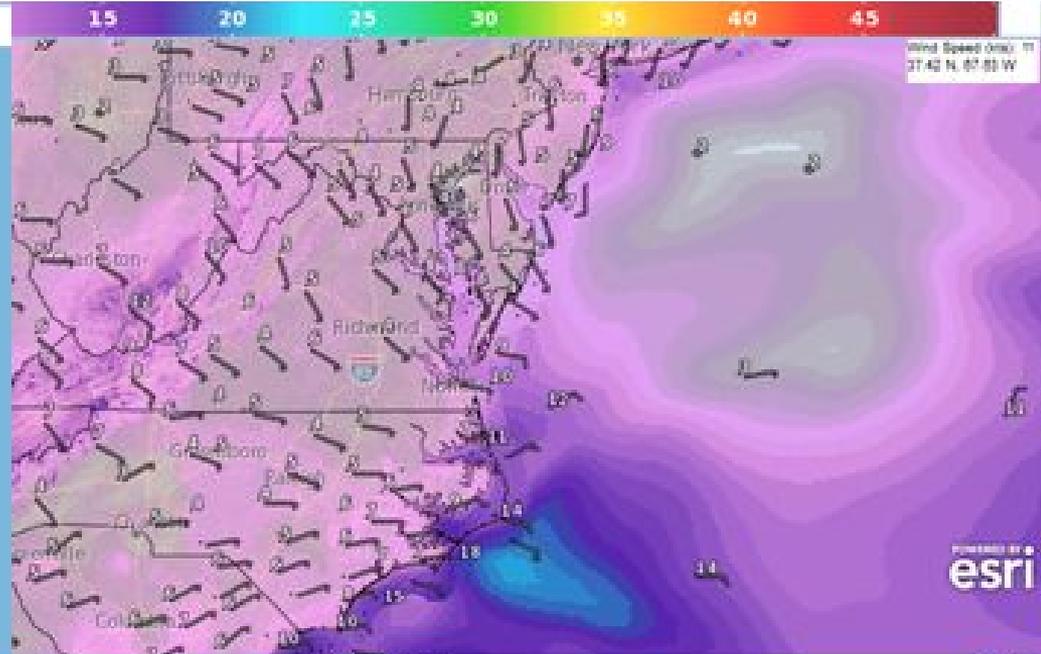
Friday: May 20: 5 pm EDT



Friday: May 20: 8 pm EDT

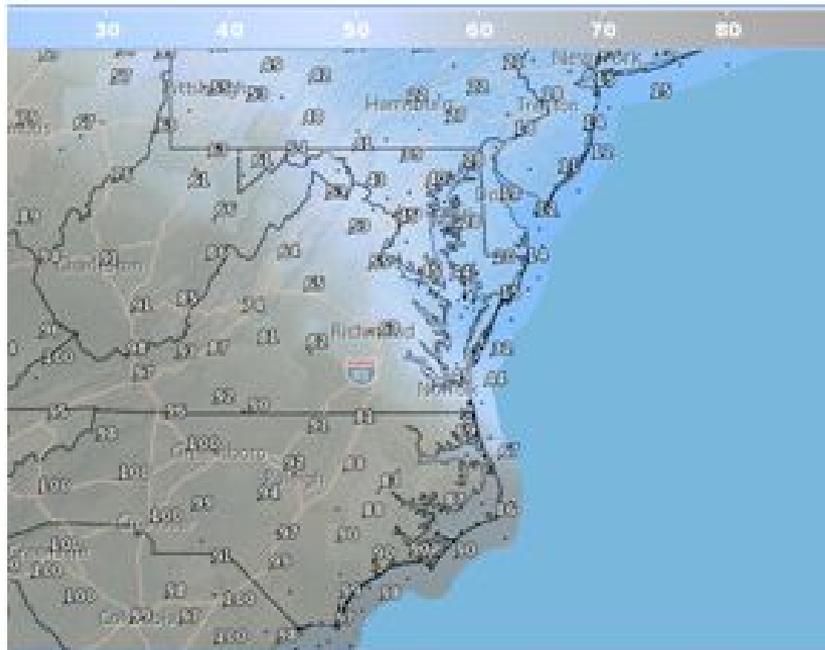


Weather
Valid at: Fri, May 20 2016, 8 PM EDT
Issued: May 20 at 10 AM EDT

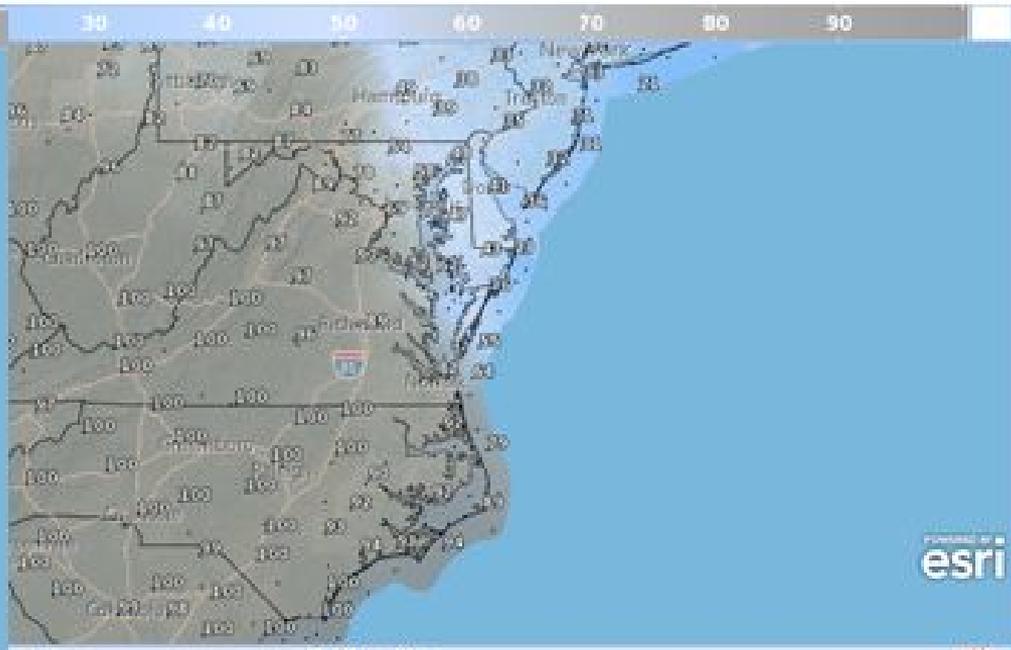


Wind Speed (kts)
Valid at: Fri, May 20 2016, 8 PM EDT
Issued: May 20 at 10 AM EDT





Sky Cover (%)
Valid at: Fri, May 20 2016, 3 PM EDT
Issued: May 20 at 9 AM EDT



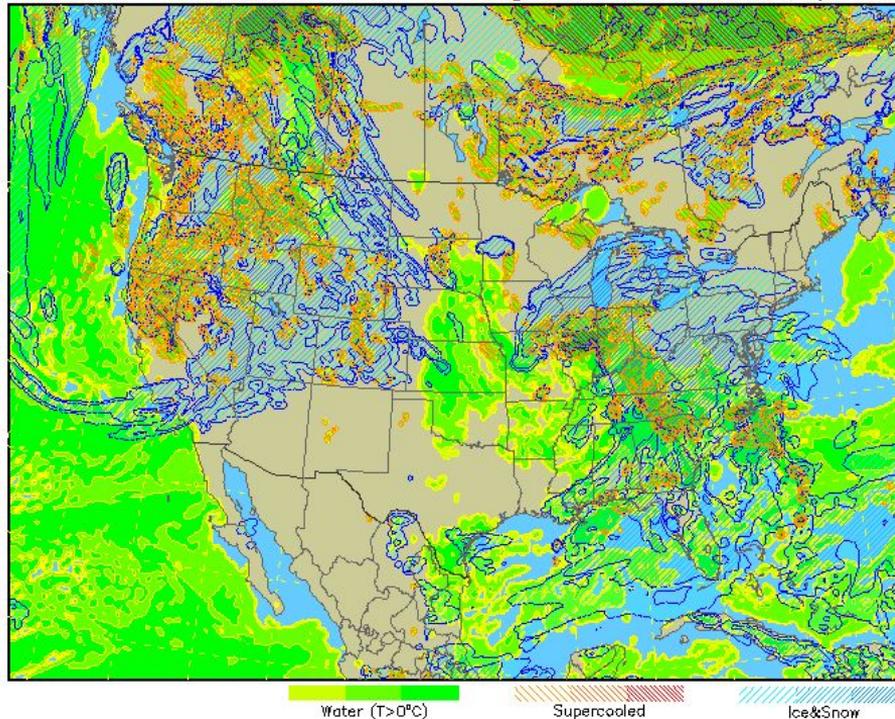
Sky Cover (%)
Valid at: Fri, May 20 2016, 6 PM EDT
Issued: May 20 at 9 AM EDT



Integrated liquid and frozen hydrometeors (all levels)

07-hour forecast valid 2100 UTC Fri 20 May 2016

RAP model (14z 20 May)

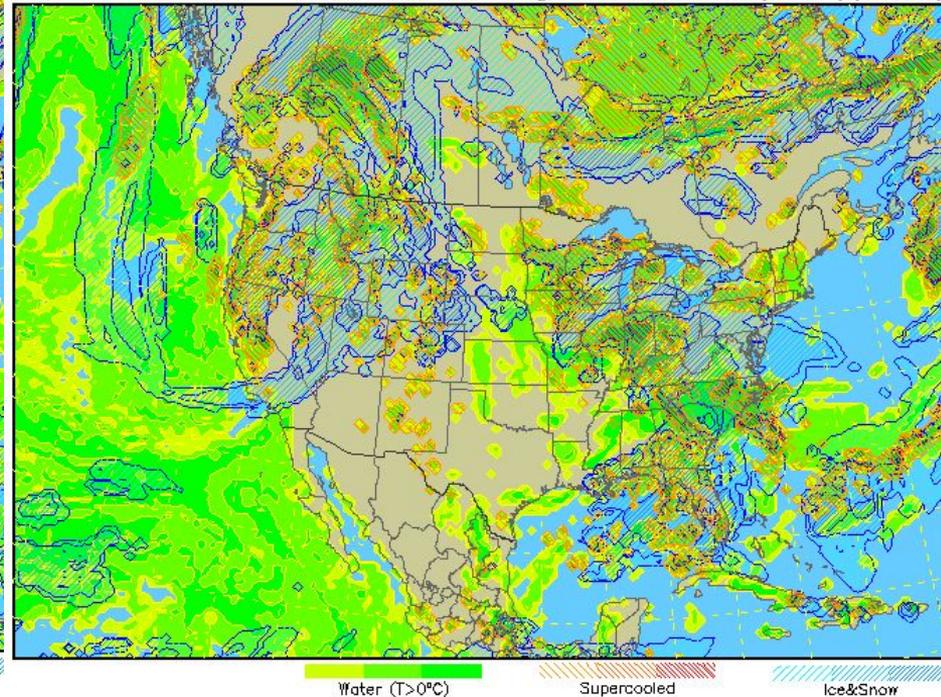


RAP -- valid 1700 EDT (2100 UTC)

Integrated liquid and frozen hydrometeors (all levels)

09-hour forecast valid 2100 UTC Fri 20 May 2016

NAM (MRF-NMM) (12z 20 May)



NAM -- valid 1700 EDT (2100 UTC)

(condensate above 18000 ft from 11 UTC RAP)

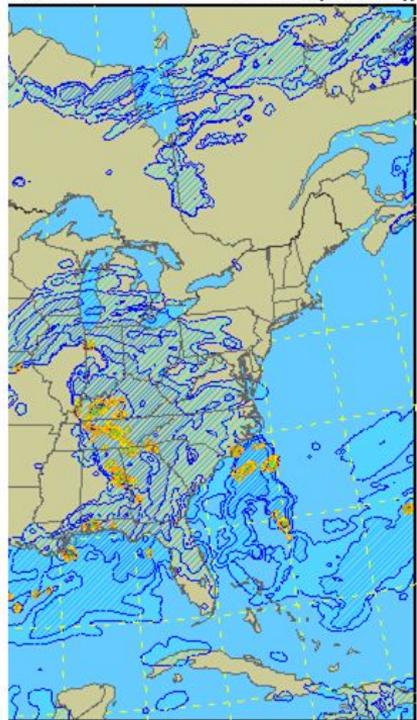
12:00 EDT

13: EDT

14 EDT

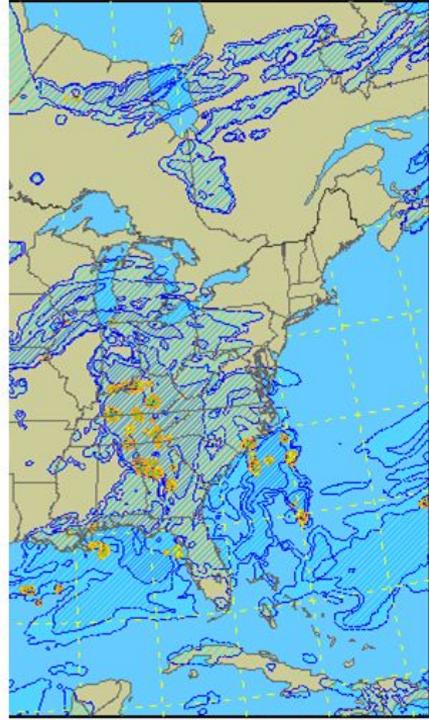
15 EDT

2016 RAP model (11z 20 May)



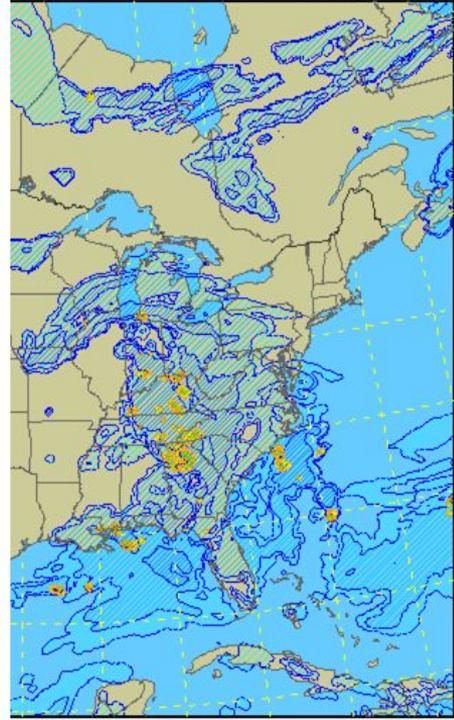
Supercooled Ice&Snow

ay 2016 RAP model (11z 20 May)



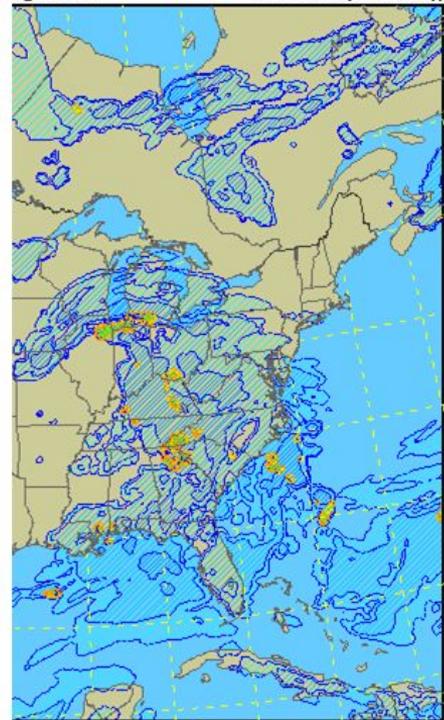
Supercooled Ice&Snow

May 2016 RAP model (11z 20 May)



Supercooled Ice&Snow

ay 2016 RAP model (11z 20 May)



Supercooled Ice&Snow

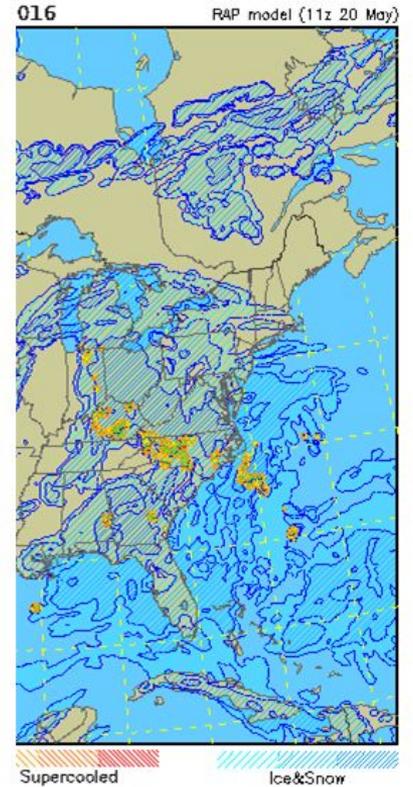
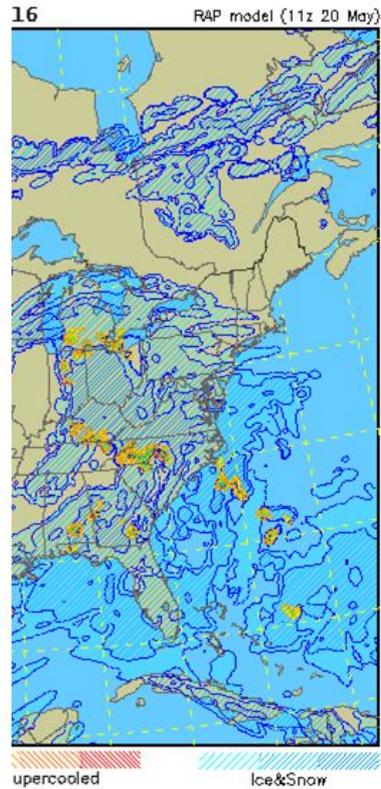
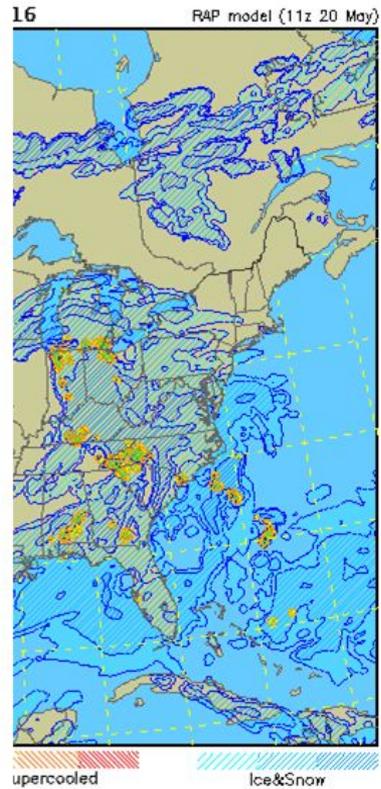
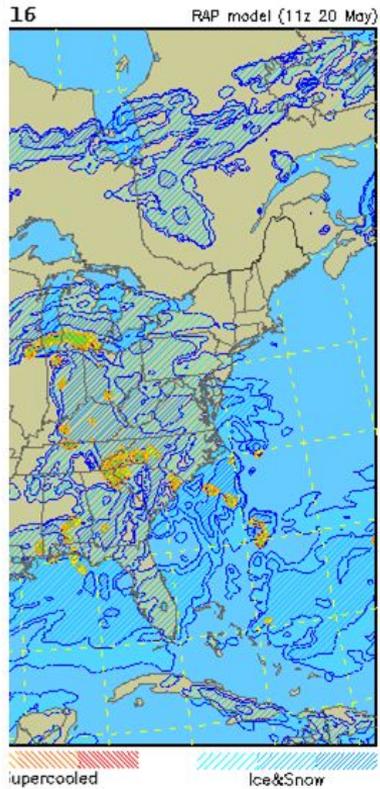
(condensate above 18000 ft from 11 UTC RAP)

16:00 EDT

17: EDT

18 EDT

19 EDT



(condensate 12000-18000 ft from 11 UTC RAP)

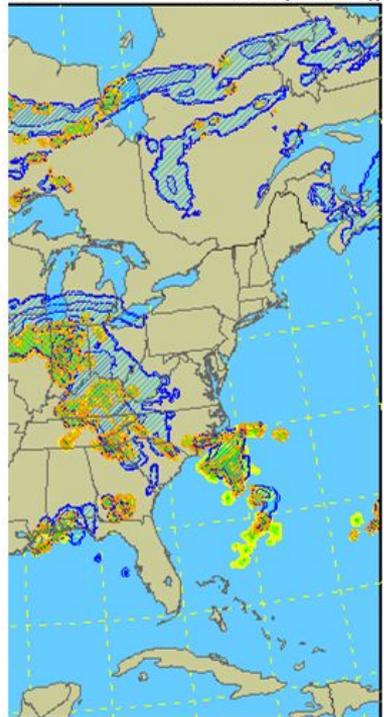
16:00 EDT

17: EDT

18 EDT

19 EDT

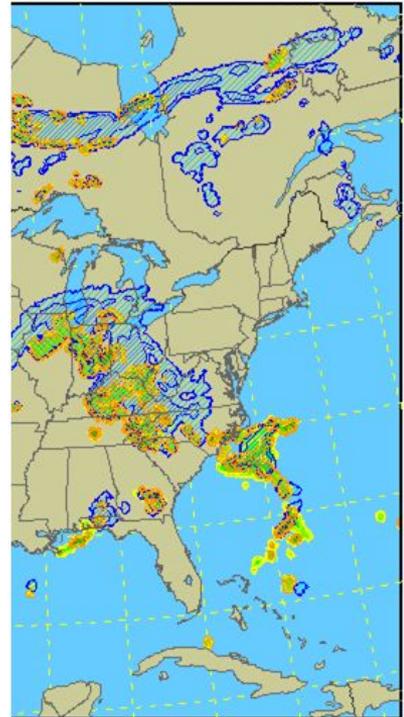
2016 RAP model (11z 20 May)



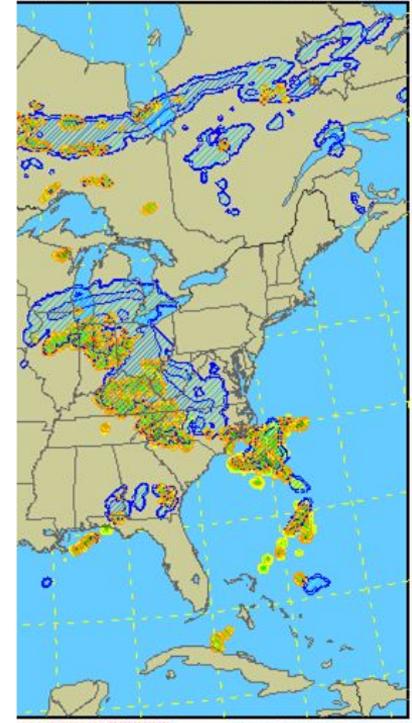
2016 RAP model (11z 20 May)



2016 RAP model (11z 20 May)



2016 RAP model (11z 20 May)

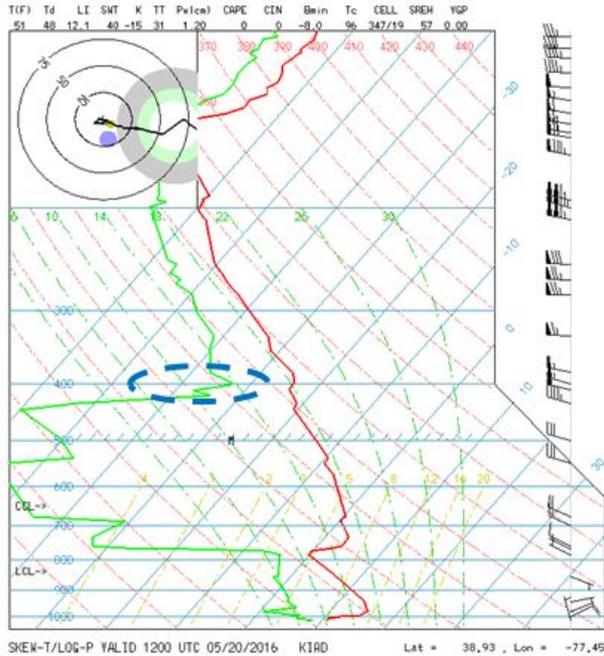


Supercooled Ice&Snow

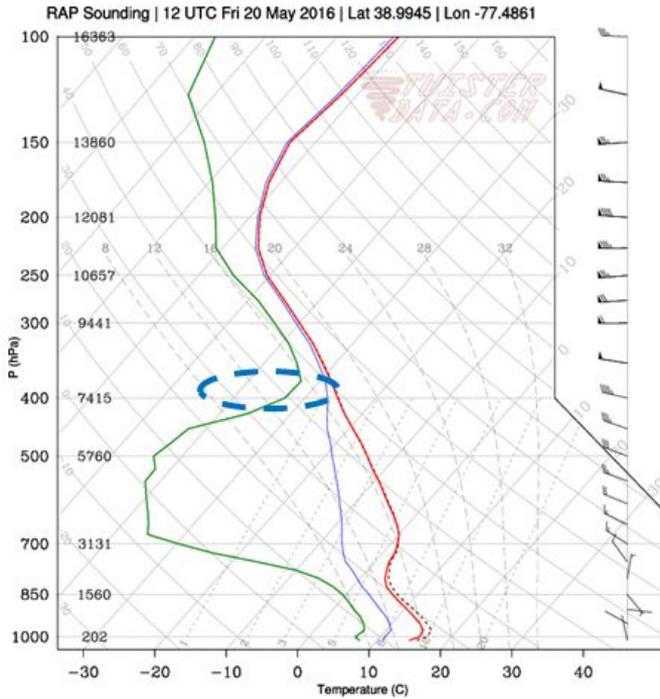
Supercooled Ice&Snow

Supercooled Ice&Snow

Supercooled Ice&Snow

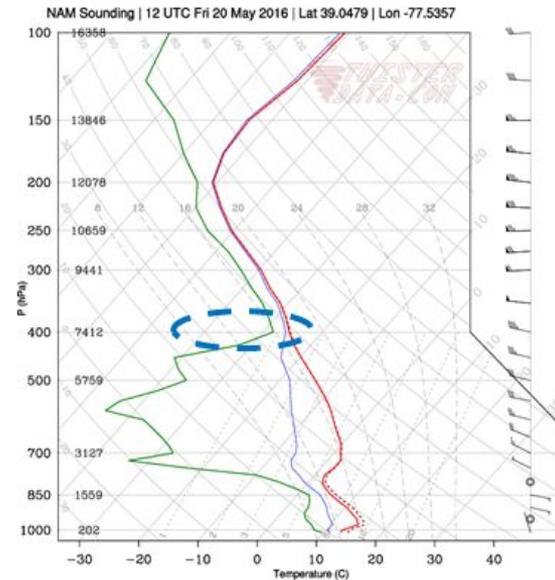


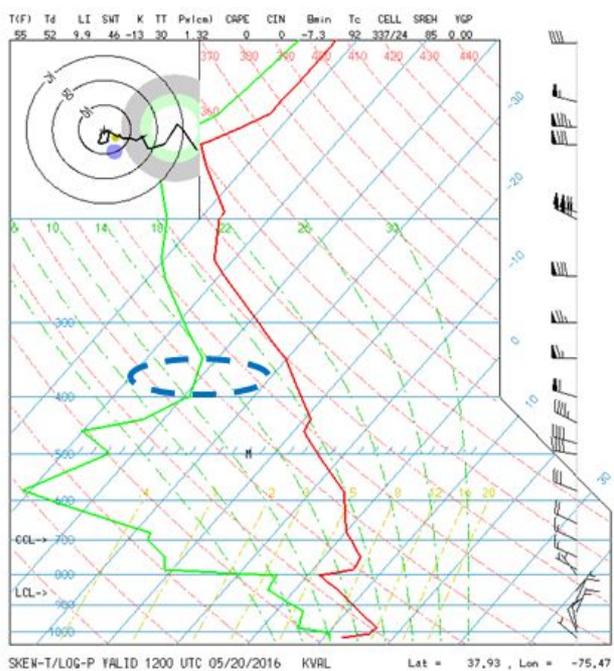
12 Z Dulles **Sounding** (KIAD)



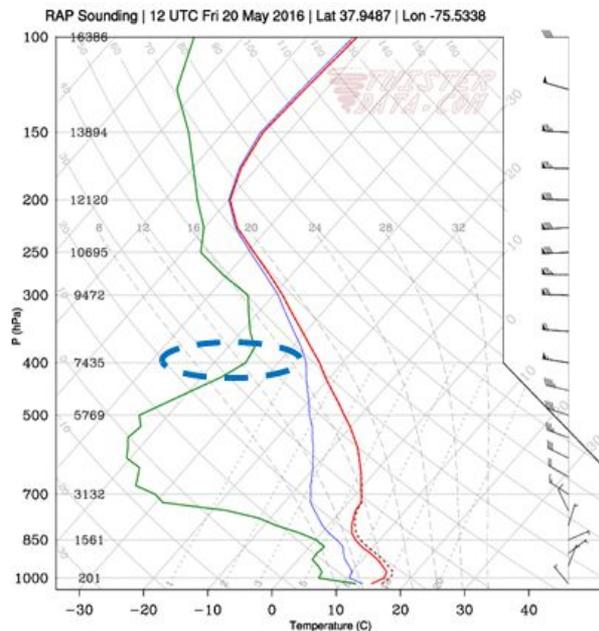
12 Z Dulles Simulation **RAP** (18 hrs Forecast)

12 Z Dulles **Simulation** NAM (18 hrs)



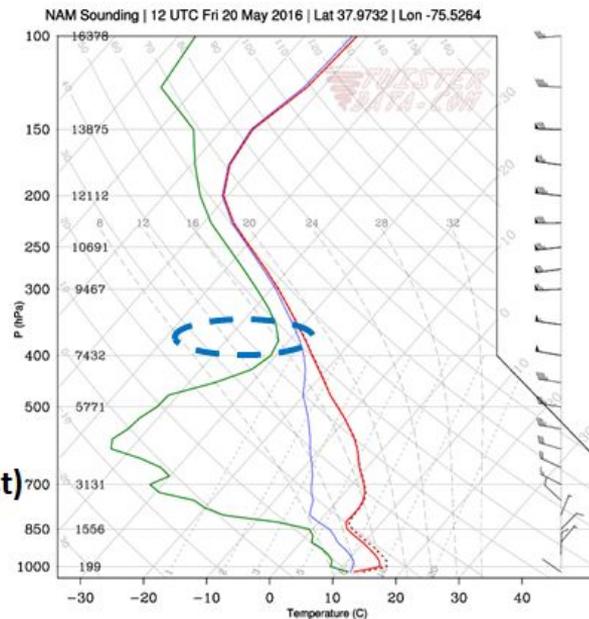


12 Z Wallops Sounding (KQXL)

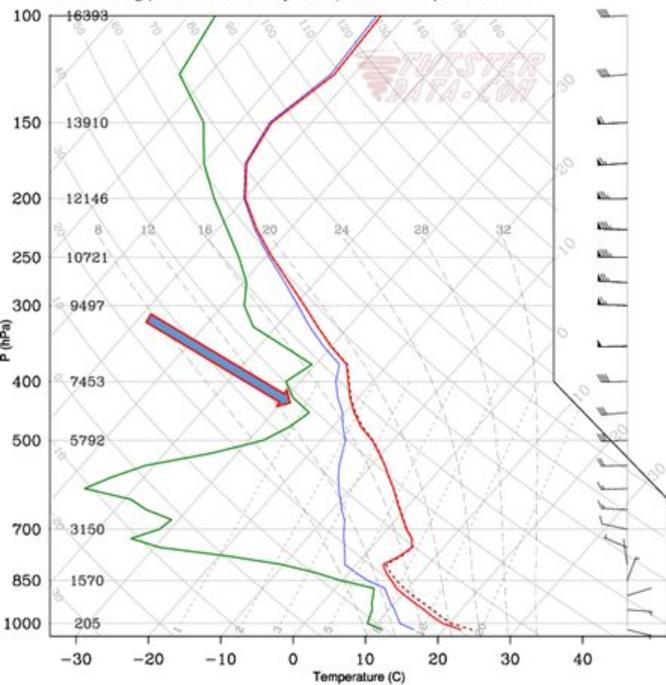


12 Z Wallops Simulation RAP (18 hrs Forecast)

12 Z Wallops Simulation NAM (18 hrs)

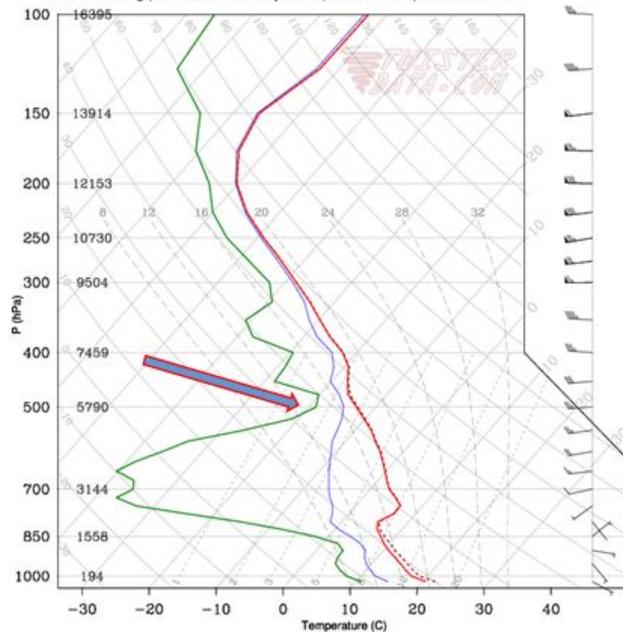


NAM Sounding | 18 UTC Fri 20 May 2016 | Lat 37.9732 | Lon -75.5264



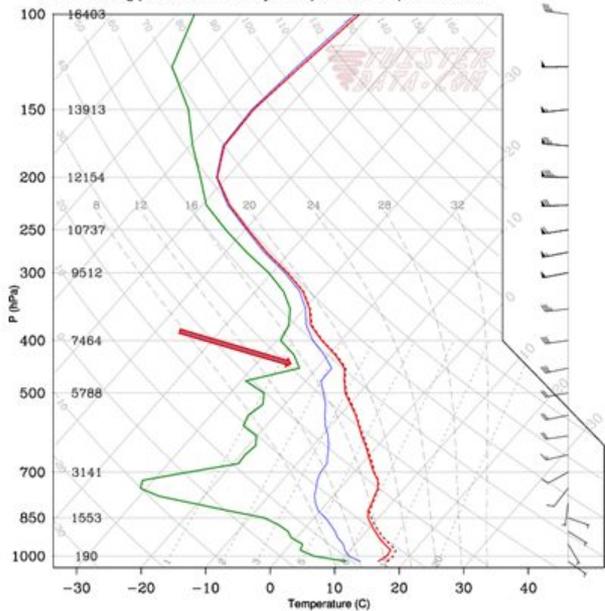
2 pm Wallops Simulation NAM

NAM Sounding | 21 UTC Fri 20 May 2016 | Lat 37.9732 | Lon -75.5264



5 pm Wallops Simulation NAM

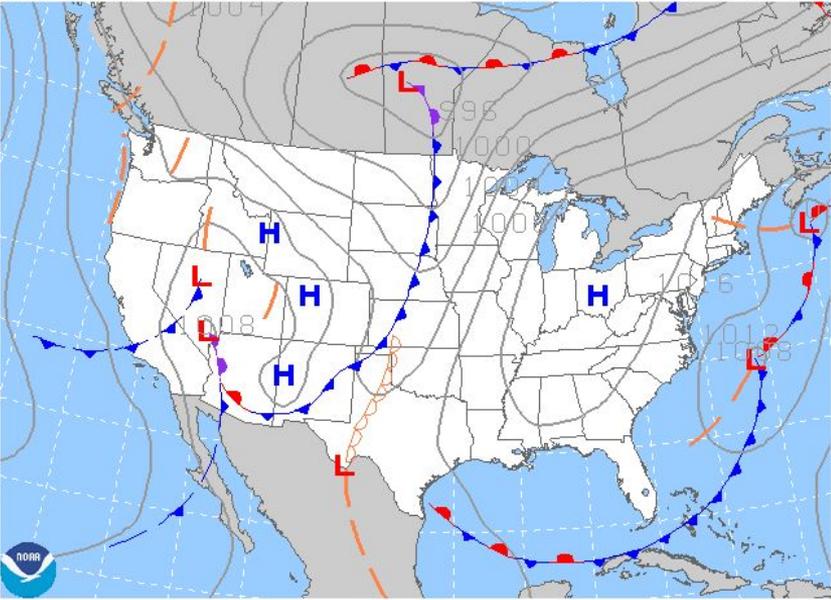
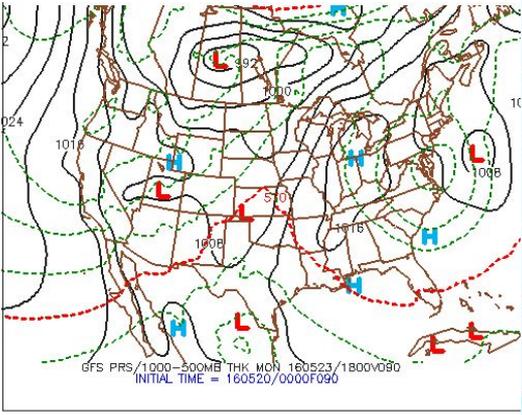
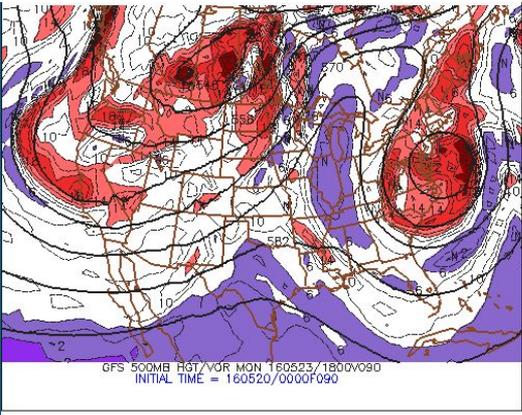
NAM Sounding | 00 UTC Sat 21 May 2016 | Lat 37.9732 | Lon -75.5264



8 pm Wallops Simulation NAM

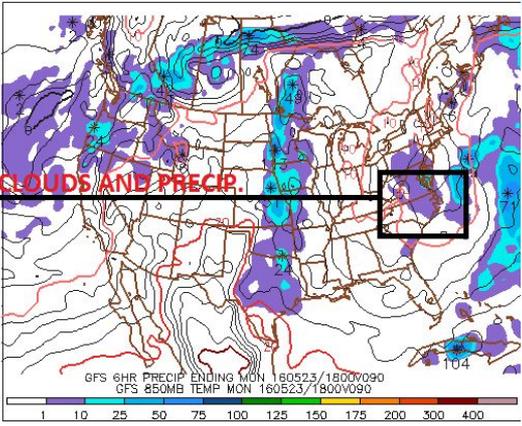
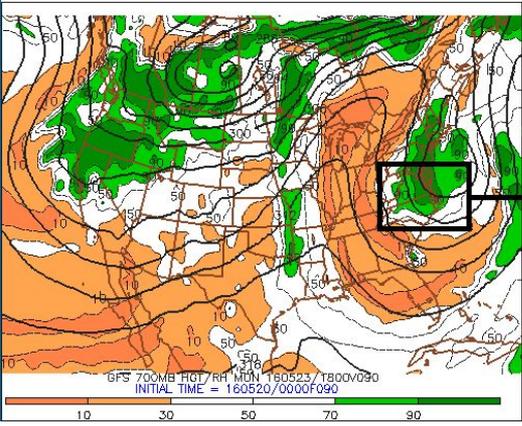
Long Range Outlook (Next Week)

Monday 12Z (right) 18Z (below)



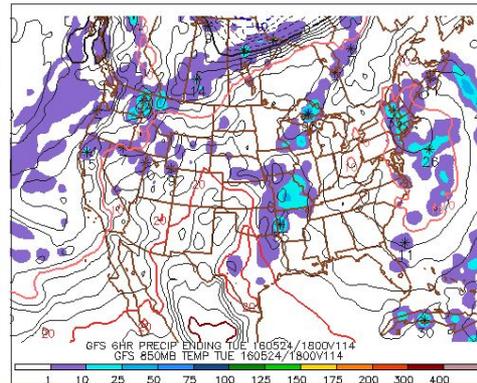
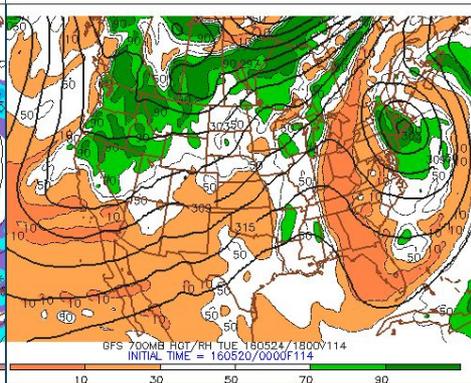
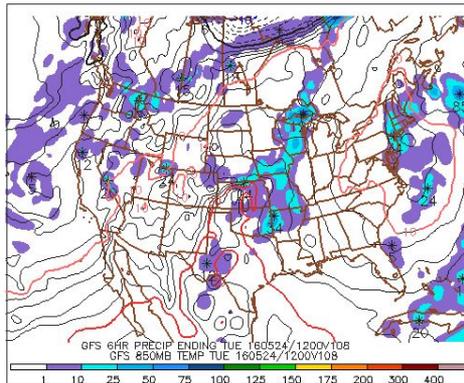
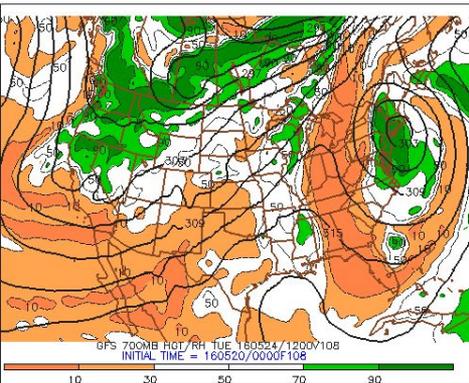
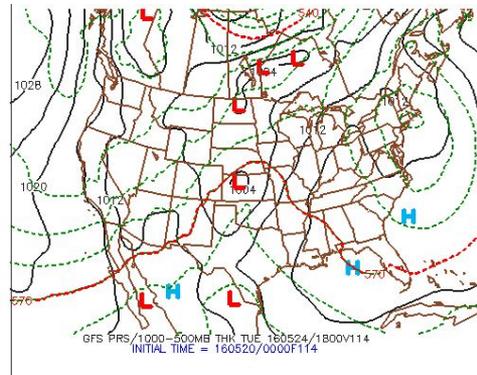
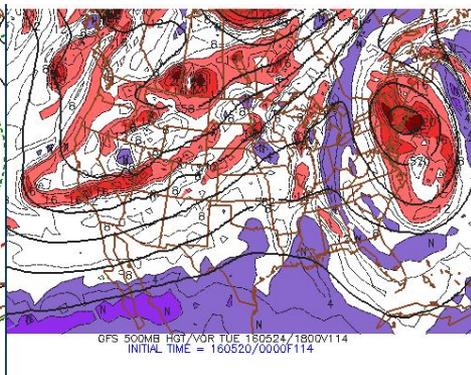
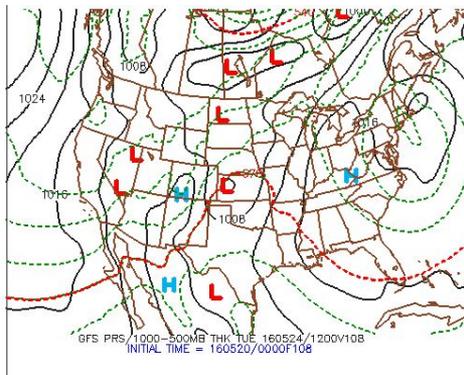
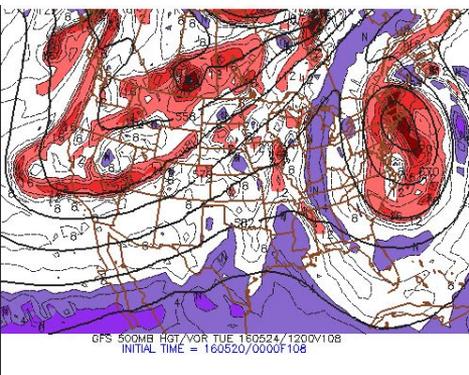
DOC/NOAA/NWS/NCEP/MP

ISSUED: 0154 UTC FRI 20 MAY 2016



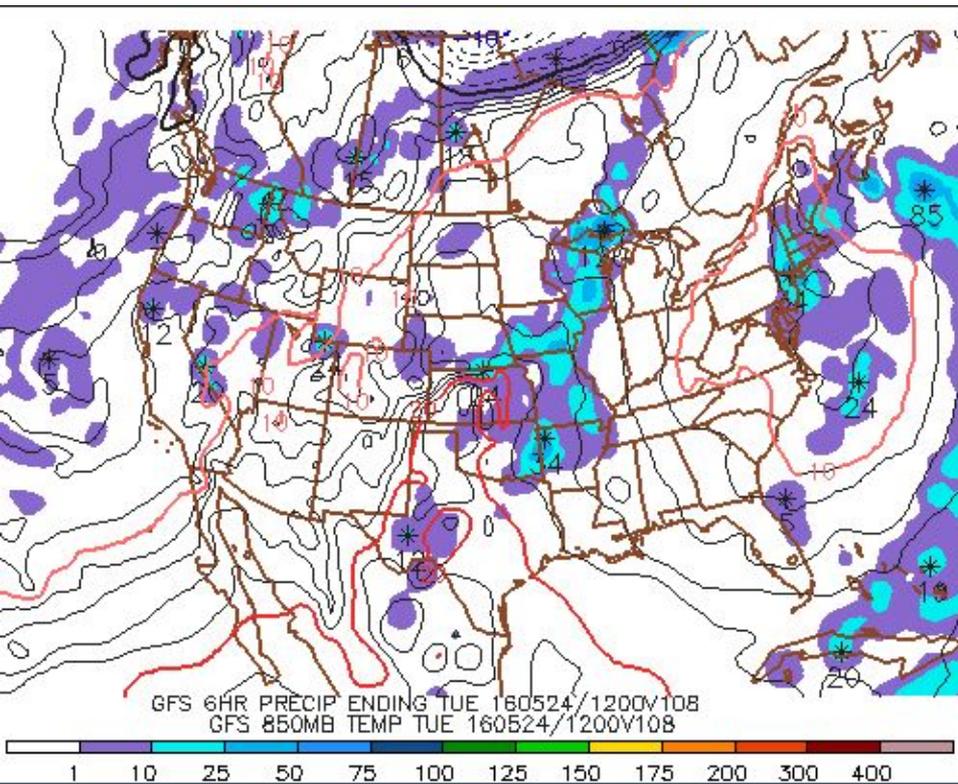
CLOUDS AND PRECIP

Conclusion for Monday: No possibility for for land or ocean flight -- clouds for the entire day.

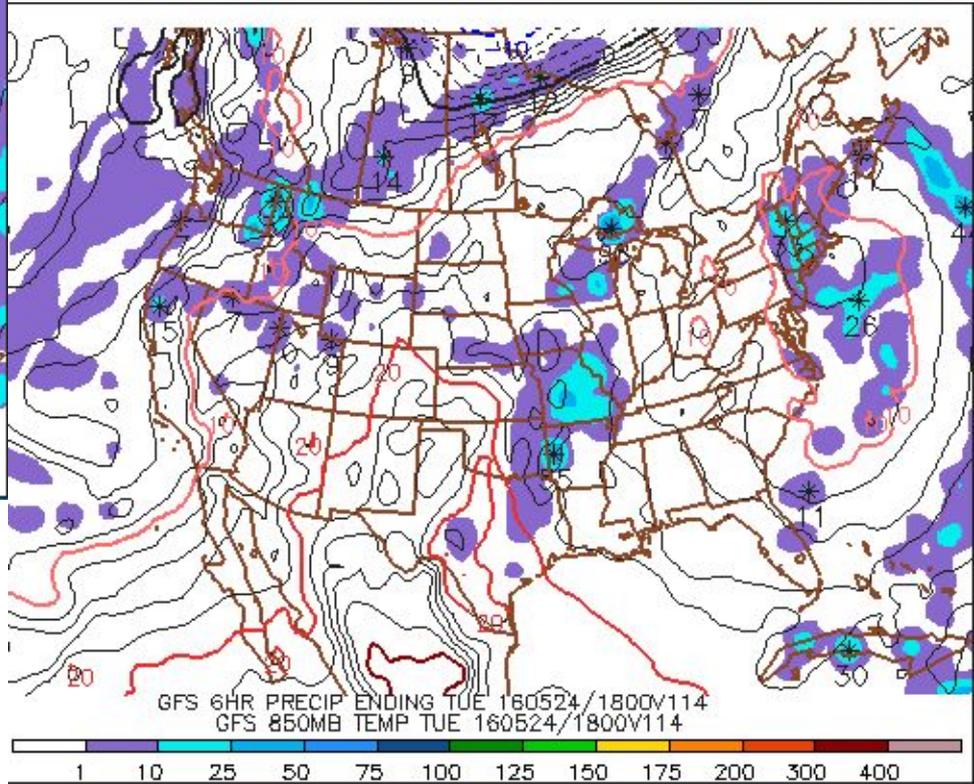


Tuesday AM (12Z) May 24, 2016

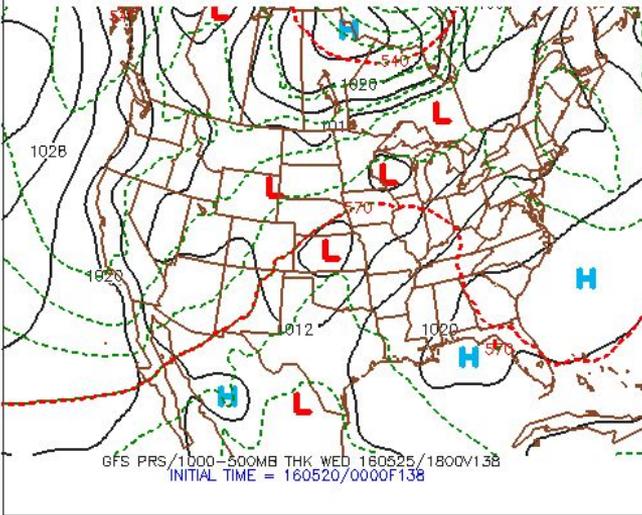
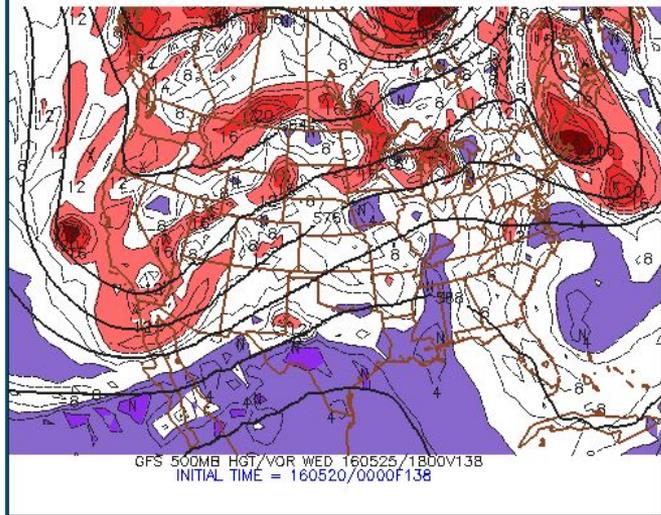
Tuesday PM (18Z) May 25, 2016



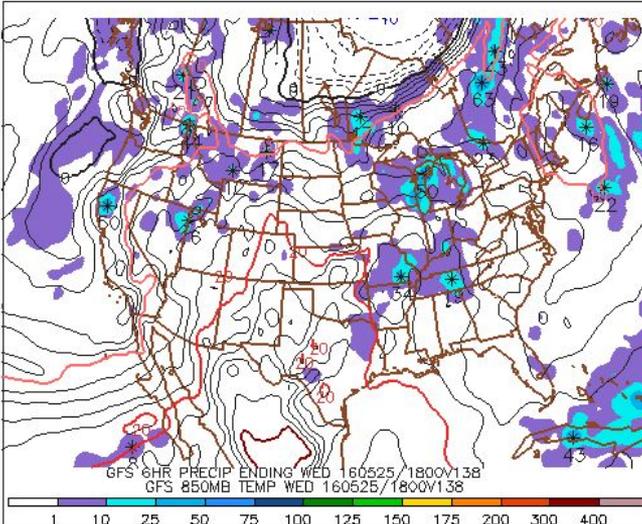
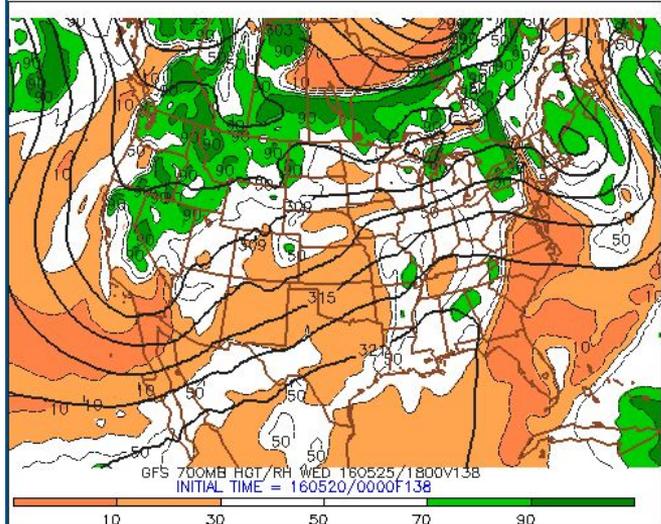
Tuesday May 24, 2016 12Z (LEFT) 18Z (BELOW)



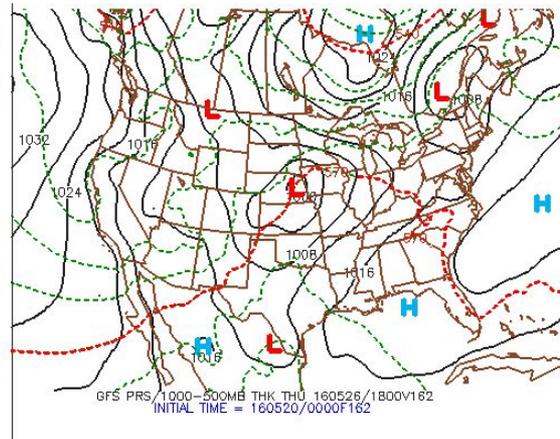
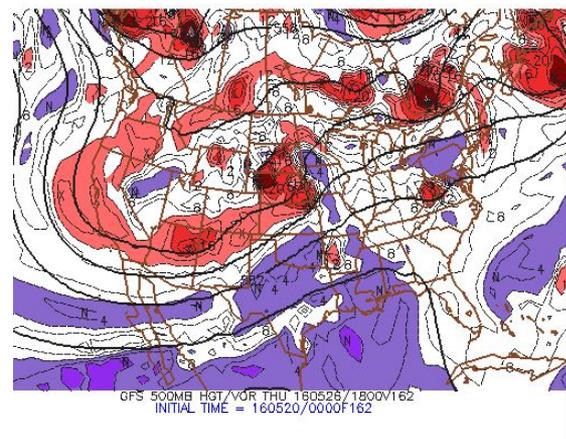
Tuesday Conclusion: NO Ocean Flight, cloudy. For interest region over land cloud percentage between (10-20%) for morning, increasing to ~30% in afternoon



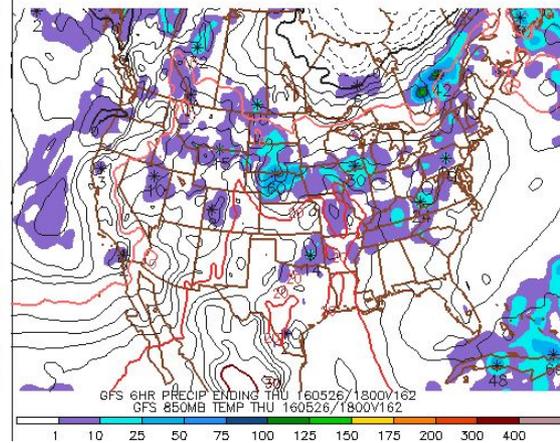
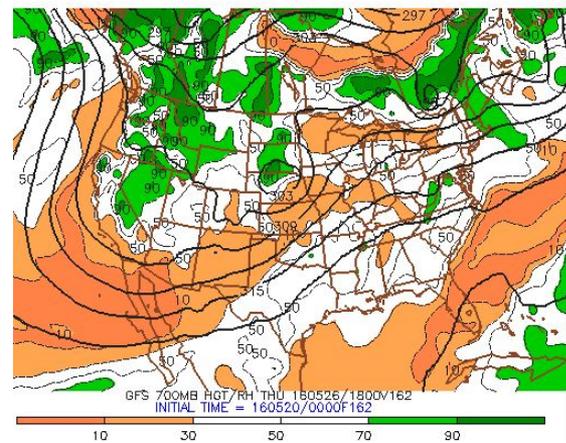
(18Z) Wednesday May 25, 2016



Wednesday Conclusion:
Land & Ocean Flight is possible in the morning, but cloud %'s increase heading into the afternoon.

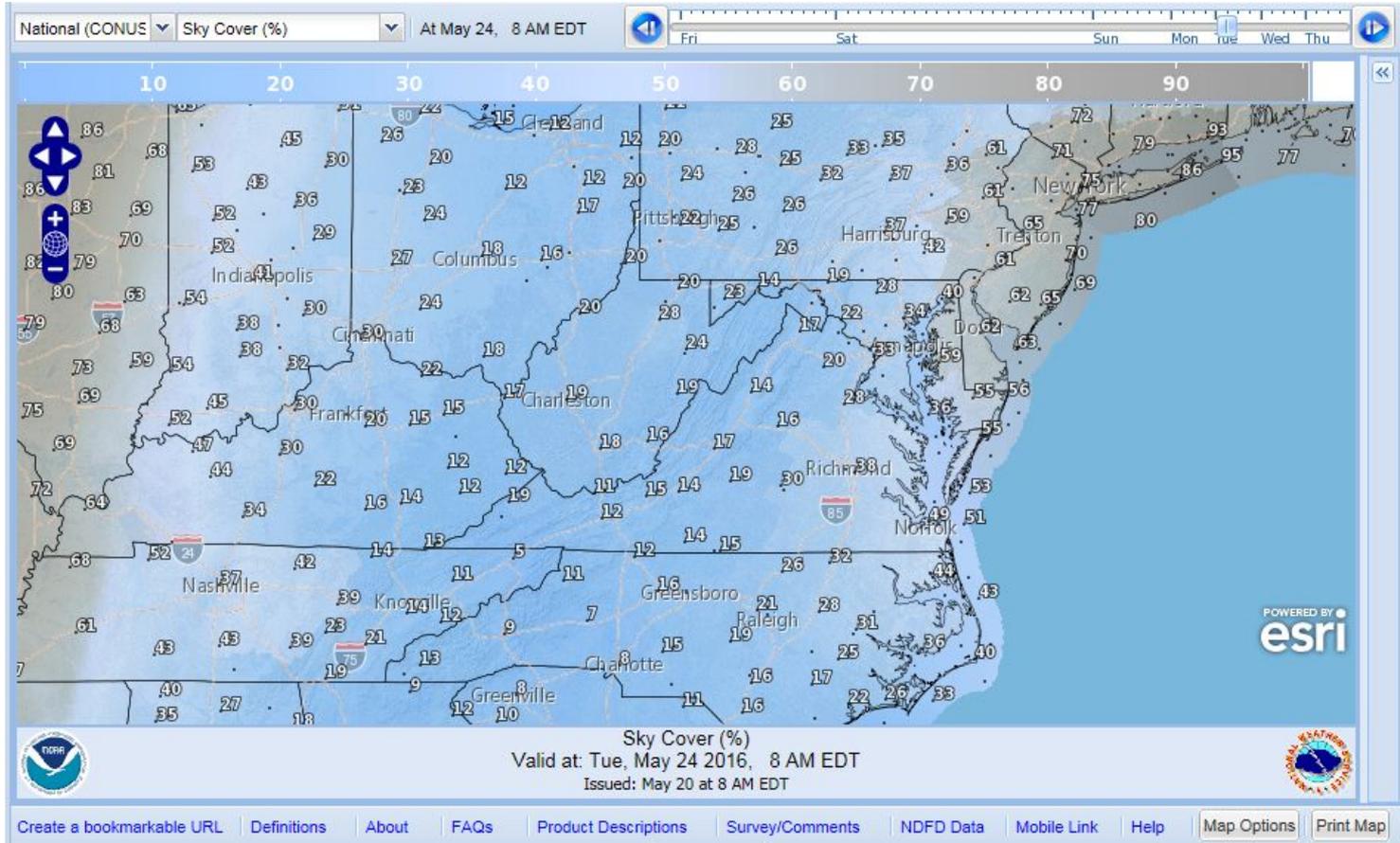


Cloud %'s increase (~50%), clouds move in from the West.



18Z Thursday May 26, 2016

LOWEST Cloud % Over Land for next 7 Days



Long Range Synopsis

- MONDAY: NO Land/Ocean Flight
- TUESDAY: NO Ocean Flight, possible land flight in the morning, and maybe in afternoon as well. **How fast does the system depart?
- WEDNESDAY: Land/Ocean Flight possible in the morning, clouds moving back into the regions in afternoon.

Generally: Tuesday-Wednesday timeframe is looking the best 'weather' wise.

Thoughts?