Good flying conditions are likely for Friday through Monday. The cold front and thunderstorms that passed through last night have brought in clean Canadian air with low dewpoints (50s, low 60s) and mostly sunny skies. These conditions should persist through the period though there is a possibility of low level cloud cover developing as a result of moist southeasterly flow as the high moves off the coast. Preliminary data from the flight on Thursday and ground stations indicate a very clean air mass (low AOD), but afternoon ozone levels similar to previous days. Early indications are that hot, muggy air with higher pollution will return for next week.
Recommendations for July 15-18th

July 15th, Friday:  Can Fly
July 16th, Saturday: Can Fly
July 17th, Sunday: Can Fly
July 18th, Monday: Can Fly
Current Conditions at BWI at 11am

Baltimore-Washington International Airport
Lat: 39.19  Lon: -76.67  Elev: 148
Last Update on Jul 14, 10:54 am EDT

Partly Cloudy

Humidity: 42%
Wind Speed: E 14 G 22 MPH
Barometer: 30.03" (1016.7 mb)
Dewpoint: 53 °F (12 °C)
Heat Index: 79 °F (26 °C)
Visibility: 10.00 mi.

78 °F (26 °C)
Cold front moved through yesterday – strong storms in area – boundary layer ventilation – Canadian clean air – bizarre DC summer continues.
Pleasant and unusually cool!

Today → Friday → Saturday

Dewpts in 50s

Windshift

Mostly Sunny
Pleasant still, but a little warmer.

Saturday →

Low dewpts cont.
Persistent southerly flow.

Sunday →

Clear Skies
More Clouds
Warming up with dewpoints on the rise.
- Scattered Boundary-Layer clouds both Friday and Saturday afternoon

- No precip and generally clear skies
Friday 8 am

High pressure overhead, with shortwave trough (200 mb) north & west.
Friday 8 pm – High pressure moves off East coast
Saturday 8 am
Keep an eye out for possible clouds from T-storms in mid-west
NOAA HYSSPLIT MODEL
Forward trajectories starting at 1800 UTC 14 Jul 11
12 UTC 14 Jul  NAM Forecast Initialization

This is not a NOAA product. It was produced by a web user.
Job ID: 11594  Job Start: Thu Jul 14 18:51:54 UTC 2011
Source 1  lat.: 43.172601  lon.: -92.592773  height: 9000 m AGL
Trajectory Direction: Forward  Duration: 48 hrs
Vertical Motion Calculation Method: Model Vertical Velocity
Meteorology: 1200Z 14 Jul 2011  NAM 12 km
GEM Cloud Cover

Cloudy Friday morning and clearing out by evening

8 am Friday

8 pm Friday
GEOS-5 Forecast

No Precip forecast for Fri & Sat

8 am Friday

2 pm Friday

8 pm Friday

8 am Saturday

8 pm Saturday

8 am Sunday
GEOS-5 extended forecast
No precip in forecast for Sun & Mon

8 am Sunday

8 pm Sunday

8 am Monday

8 pm Monday
NAM/GFS Cloud Cover

High Cirrus Forecast for Friday morning --- Clear on Saturday

8 am Friday  
2 pm Friday  
8 pm Friday

8 am Saturday  
8 pm Saturday  
8 am Sunday

Integrated liquid and frozen hydrometeors

Cloud Cover (%)

- Water (T>0°C)
- Supercooled
- Ice & Snow
Low AOD today, but Ozone on the rise!

Hourly Ozone (ppbv)

Hourly PM2.5 (ug/m³)

Cold front passed
Today’s 8-hr Ozone Max

Friday’s 8-hr Ozone Max

AQ is stupid clean!

Today’s AQI Forecast
Thursday, July 14, 2011

07/14/2011 10:15 AM EDT
NAQFC-MOS valid for Friday

**Edgewood**
- Mean: 77.32
- Mode: 76.5
- 95% CI: 57.63 – 95.04

**Beltsville**
- Mean: 65.16
- Mode: 62.25
- 95% CI: 55.05 – 80.06
Fire smoke south of us.
Beltsville