Good flying conditions are likely for Saturday through Tuesday, though cloud forecasts need to be monitored for the next few days. Dewpoints begin to increase over the weekend and typical summertime conditions return to the mid-Atlantic next week – hazy, hot, and humid. Early indications are for excessive heat by the latter part of the week. Air quality will likely be poor most of the work week.
Recommendations for July 16-19th

Saturday, July 16th: Can Fly

Sunday, July 17th: Can Fly – check cloud forecast

Monday, July 18th: Can Fly – check cloud forecast

Tuesday, July 19th: Can Fly – check cloud forecast

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Jason-CapitalWeatherGang wrote:

A forecast update has been made to the top of the post to reflect the increase in cloud cover. We fully admit to missing this as did National Weather Service. From their discussion:

UPDATED SKY COVER TO ACCOUNT FOR THICKENING MID-LVL CLOUD DECK THAT HAS SPREAD INTO THE AREA.

THE MID- ATLANTIC REGION IS SITUATED BETWEEN A DOWNSTREAM UPPER LOW OVER THE NORTHWESTERN ATLANTIC AND A LARGE UPPER RIDGE OVER THE CENTRAL CONUS. MID/HI CLOUDS OVER THE GREAT LAKES WILL STREAM INTO THE AREA TDA UNDER NORTHWEST FLOW BETWEEN THOSE SYSTEMS.
Current Conditions at BWI at 11 am

- **Plymouth State Weather Center**

**Baltimore-Washington International Airport**
- Lat: 39.19
- Lon: -76.67
- Elev: 148
- Last Update on Jul 15, 10:54 am EDT

**Mostly Cloudy**
- **79 °F (26 °C)**

**Weather Data**
- **Humidity:** 54%
- **Wind Speed:** W 7 MPH
- **Barometer:** 30.12" (1019.8 mb)
- **Dewpoint:** 61 °F (16 °C)
- **Heat Index:** 80 °F (27 °C)
- **Visibility:** 10.00 mi.
Tracking the Heat

Massive upper-level ridge builds

This weekend

Area of widespread 90s & 100s

Next week

Upper-level ridge shifts east

Heat wave expands & moves east

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<table>
<thead>
<tr>
<th>Today</th>
<th>Sat</th>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
<th>Sun</th>
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<td>16</td>
<td>17</td>
<td>18</td>
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- Mostly Sunny
- Sunny
- Partly Cloudy
- Partly Cloudy
- Partly Cloudy
- Mostly Sunny
- Partly Cloudy
- Mostly Sunny
- Isolated T-Storms
- AM Clouds / PM Sun

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<tr>
<td>Mostly Sunny</td>
<td>97°</td>
<td>Mostly Sunny</td>
<td>82°</td>
<td>Isolated T-Storms</td>
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<td>96°</td>
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<tr>
<td>Heat Wave Expands &amp; Moves East</td>
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</tbody>
</table>

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Dewpoints rising a little, Clouds increasing

Saturday → Sunday →
Dewpoints rising a little, Clouds & Temps increasing

NAM MOS predicting clouds ahead of front.
- Scattered Boundary-Layer clouds both Sunday and Monday afternoon

- No precip and generally clear skies
Friday 2 pm – Southerly flow from high pressure off of East Coast

NWS Short range forecast of fronts and pressure

NAM 500 mb Heights (dm) and Abs. Vorticity (x10^-5 s^-1)
Saturday 8 am – High pressure remains

NWS Short range forecast of fronts and pressure

NAM 500 mb Heights (dm) and Abs. Vorticity (x10^{-5}s^{-1})
Saturday 8 pm – upper level ridge intensifies

NWS Short range forecast of fronts and pressure

NAM 500 mb Heights (dm) and Abs. Vorticity (x10^-5 s^-1)
Sunday 8 am – Upper level ridge and high pressure maintain position and strength

NWS Short range forecast of fronts and pressure

NAM 500 mb Heights (dm) and Abs. Vorticity (x10^{-5}s^{-1})
Saturday 8 am – All models indicate clear conditions
Saturday 2 pm – Canadian GEM model indicates some clouds
Saturday 8 pm – GEM model still outlier. All other models clear.
Sunday 8 am – All models indicate clear conditions

NAM 500 mb

GFS

GEOS - 5
Sunday 8 pm – All models indicate clear conditions

NAM 500 mb

NAM

GFS

GEOS - 5
Monday 8 am – All models indicate clear conditions.
GEOS -5 extended forecast
No precip through Tuesday night
MDE Surface Sites

**Ozone (ppbv)**

**PM2.5 (ug/m³)**

**Forecasts:**
- Code Orange-Red
- Code Orange
- Code Yellow
- Code Green-Yellow
Relatively clean air over eastern U.S.
NAQFC-MOS valid for Saturday

Edgewood

Beltsville
GMAO GEOS AOT low for mid-Atlantic

Beltsville
Wildfire Smoke Staying to Our south.