

## Storm Data and Unusual Weather Phenomena - July 2020

| Location  | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details              |
|---|--------------------|-------------------|---------------------|-------------------------------------|
| <b>ATLANTIC NORTH</b>   |                    |                   |                     |                                     |
| <b>PATUXENT RIVER TO BROOMES ISLAND MD COUNTY --- SOLOMONS ISLAND (SLIM2) [38.32, -76.45]</b>   |                    |                   |                     |                                     |
|   | 07/01/20 12:06 EST | 0                 |                     | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/01/20 12:06 EST | 0                 |                     | Source: Buoy                        |
| A thunderstorm produced estimated wind gusts to 34 knots (39 MPH) near the Solomons Island (SLIM2) buoy.  |                    |                   |                     |                                     |
| <b>An isolated thunderstorm produced gusty winds near Solomons Island, Maryland, during the early afternoon hours.</b>                                |                    |                   |                     |                                     |
| <b>PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- BALTIMORE (BLTM2) [39.27, -76.58]</b>   |                    |                   |                     |                                     |
|   | 07/05/20 15:10 EST | 0                 |                     | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/05/20 15:10 EST | 0                 |                     | Source: Mesonet                     |
| A thunderstorm produced an estimated wind gust of 34 knots (39 MPH) near Hampstead Hill Academy.  |                    |                   |                     |                                     |
| <b>PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- BALTIMORE (BLTM2) [39.27, -76.58]</b>   |                    |                   |                     |                                     |
|   | 07/05/20 15:24 EST | 0                 |                     | Marine Thunderstorm Wind (MG 50 kt) |
|   | 07/05/20 15:30 EST | 0                 |                     | Source: Buoy                        |
| Wind gusts of 39 to 50 knots (45 to 58 MPH) were measured at a buoy in Baltimore Harbor/the tidal Patapsco River.                                     |                    |                   |                     |                                     |
| <b>PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- MARYLAND SCIENCE CENTER (BLMRE) [39.28, -76.61]</b>   |                    |                   |                     |                                     |
|   | 07/05/20 15:25 EST | 0                 |                     | Marine Thunderstorm Wind (MG 37 kt) |
|   | 07/05/20 15:25 EST | 0                 |                     | Source: Mesonet                     |
| A wind gust of 37 knots (43 MPH) was measured by a mesonet at the Maryland Science Center.  |                    |                   |                     |                                     |
| <b>PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- BALTIMORE KEY BRIDGE (FSKM2) [39.22, -76.53]</b>  |                    |                   |                     |                                     |
|   | 07/05/20 15:30 EST | 0                 |                     | Marine Thunderstorm Wind (MG 39 kt) |
|   | 07/05/20 15:54 EST | 0                 |                     | Source: Buoy                        |
| Multiple wind gusts of 39 knots (45 MPH) were measured at Francis Scott Key Bridge.   |                    |                   |                     |                                     |
| <b>Several strong to severe thunderstorms traversed the western shore of the Chesapeake Bay during the afternoon hours of Sunday, July 5th, 2020.</b> |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- (DCA)REAGAN NATIONAL AIRPORT [38.86, -77.03]</b>   |                    |                   |                     |                                     |
|   | 07/06/20 17:10 EST | 0                 |                     | Marine Thunderstorm Wind (MG 52 kt) |
|   | 07/06/20 17:54 EST | 0                 |                     | Source: ASOS                        |
| Wind gusts of 34 to 52 knots (39 to 60 MPH) were measured by the ASOS at Ronald Reagan Washington National Airport (KDCA).                            |                    |                   |                     |                                     |
| <b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- (KMTN)MARTIN STATE AIRPORT [39.33, -76.42]</b>  |                    |                   |                     |                                     |
|   | 07/06/20 17:35 EST | 0                 |                     | Marine Thunderstorm Wind (MG 44 kt) |
|   | 07/06/20 17:54 EST | 0                 |                     | Source: AWOS                        |
| Wind gusts of 34 to 44 knots were measured by the AWOS at Martin State Airport.   |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- WASHINGTON DC (WASD2) [38.87, -77.02]</b>  |                    |                   |                     |                                     |
|   | 07/06/20 17:36 EST | 0                 |                     | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/06/20 17:54 EST | 0                 |                     | Source: Buoy                        |
| A thunderstorm produced estimated wind gusts to 34 knots (39 MPH) at a buoy in Washington Channel.  |                    |                   |                     |                                     |
| <b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- HART MILLER ISLAND (HRT) [39.25, -76.37]</b>  |                    |                   |                     |                                     |
|   | 07/06/20 17:49 EST | 0                 |                     | Marine Thunderstorm Wind (MG 41 kt) |
|   | 07/06/20 17:54 EST | 0                 |                     | Source: Buoy                        |
| Wind gusts of 34 to 41 knots (39 to 47 MPH) were measured by a buoy near Hart Miller Island.  |                    |                   |                     |                                     |

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| Location  | Date/Time          | Deaths &<br>Injuries | Property &<br>Crop Dmg | Event Type and Details              |
|---|--------------------|----------------------|------------------------|-------------------------------------|
| <b>PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- MARYLAND SCIENCE CENTER (BLMRE) [39.28, -76.61]</b>                   |                    |                      |                        |                                     |
|   | 07/06/20 17:50 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/06/20 17:50 EST | 0                    |                        | Source: Mesonet                     |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near the Maryland Science Center.                         |                    |                      |                        |                                     |
| <b>PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- ORIOLE PARK AT CAMDEN YARDS (BLTPC) [39.28, -76.62]</b>               |                    |                      |                        |                                     |
|   | 07/06/20 17:50 EST | 0                    |                        | Marine Thunderstorm Wind (MG 34 kt) |
|   | 07/06/20 17:50 EST | 0                    |                        | Source: Mesonet                     |
| A wind gust of 34 knots (39 MPH) was measured by a mesonet at Orioles Park at Camden Yards.                                   |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- NATIONALS PARK (WSHNP) [38.87, -77.01]</b>                             |                    |                      |                        |                                     |
|   | 07/06/20 17:50 EST | 0                    |                        | Marine Thunderstorm Wind (MG 42 kt) |
|   | 07/06/20 17:50 EST | 0                    |                        | Source: Mesonet                     |
| A wind gust of 42 knots (48 MPH) was measured by a mesonet at Nationals Park.   |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- TOLCHESTER MD (TCBM2) [39.32, -76.25]</b>                               |                    |                      |                        |                                     |
|   | 07/06/20 18:00 EST | 0                    |                        | Marine Thunderstorm Wind (MG 58 kt) |
|   | 07/06/20 18:18 EST | 0                    |                        | Source: Buoy                        |
| Wind gusts of 36 to 58 knots (41 to 67 MPH) were measured by a buoy near Tolchester Beach.                                    |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- GROVE POINT (GVP) [39.40, -76.04]</b>  |                    |                      |                        |                                     |
|   | 07/06/20 18:02 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/06/20 18:12 EST | 0                    |                        | Source: Buoy                        |
| A thunderstorm produced estimated wind gusts to 34 knots (39 MPH) at a buoy near Grove Point.                                 |                    |                      |                        |                                     |
| <b>PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- BALTIMORE (BLTM2) [39.27, -76.58]</b>                                 |                    |                      |                        |                                     |
|   | 07/06/20 18:24 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/06/20 18:24 EST | 0                    |                        | Source: Buoy                        |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy in Baltimore Harbor/the tidal Patapsco River. |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- TOLLY POINT (TOL) [38.94, -76.44]</b>                                     |                    |                      |                        |                                     |
|   | 07/06/20 18:25 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/06/20 18:25 EST | 0                    |                        | Source: Buoy                        |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy near Tolly Point.                             |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT (TPLM2) [38.90, -76.44]</b>                                  |                    |                      |                        |                                     |
|   | 07/06/20 18:27 EST | 0                    |                        | Marine Thunderstorm Wind (MG 46 kt) |
|   | 07/06/20 18:27 EST | 0                    |                        | Source: Buoy                        |
| A wind gust of 46 knots (53 MPH) was measured by a buoy near Thomas Point.  |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.9 WSW (KW29)BAY BRIDGE AIRPORT [38.98, -76.35]</b>                      |                    |                      |                        |                                     |
|   | 07/06/20 18:30 EST | 0                    |                        | Marine Thunderstorm Wind (MG 48 kt) |
|   | 07/06/20 18:35 EST | 0                    |                        | Source: Mesonet                     |
| Wind gusts of 37 to 48 knots (43 to 55 MPH) were measured by a mesonet near Stevensville.                                     |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- HERRING BAY (HRB) [38.73, -76.54]</b>                                     |                    |                      |                        |                                     |
|   | 07/06/20 18:31 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/06/20 18:36 EST | 0                    |                        | Source: Buoy                        |
| A thunderstorm produced estimated wind gusts to 34 knots (39 MPH) near a buoy near Herring Bay.                               |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- (KW29)BAY BRIDGE AIRPORT [38.98, -76.33]</b>                              |                    |                      |                        |                                     |

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| Location | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details              |
|----------|--------------------|-------------------|---------------------|-------------------------------------|
|          | 07/06/20 18:35 EST |                   | 0                   | Marine Thunderstorm Wind (MG 39 kt) |
|          | 07/06/20 18:35 EST |                   | 0                   | Source: AWOS                        |

A wind gust of 39 knots (45 MPH) was measured by the AWOS at Bay Bridge Airport (KW29).

| CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- KENT ISLAND (KNT) [38.92, -76.36] |                    |  |   |                                     |
|--|--------------------|--|---|-------------------------------------|
|  | 07/06/20 18:35 EST |  | 0 | Marine Thunderstorm Wind (MG 44 kt) |
|  | 07/06/20 18:40 EST |  | 0 | Source: Buoy                        |

Wind gusts of 39 to 44 knots (45 to 51 MPH) were measured by a buoy near Kent Island.

| CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- GOOSSES REEF BUOY (44062) [38.56, -76.41] |                    |  |   |                                     |
|---|--------------------|--|---|-------------------------------------|
|   | 07/06/20 18:42 EST |  | 0 | Marine Thunderstorm Wind (MG 51 kt) |
|   | 07/06/20 19:36 EST |  | 0 | Source: Buoy                        |

Wind gusts of 34 to 51 knots (39 to 59 MPH) were measured by a buoy near Gooses Reef.

| CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- HERRING BAY (HRB) [38.73, -76.54] |                    |  |   |                                     |
|--|--------------------|--|---|-------------------------------------|
|  | 07/06/20 18:56 EST |  | 0 | Marine Thunderstorm Wind (MG 36 kt) |
|  | 07/06/20 19:06 EST |  | 0 | Source: Buoy                        |

Wind gusts of 34 to 36 knots (39 to 41 MPH) were measured by a buoy in Herring Bay.

| CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT (TPLM2) [38.90, -76.44] |                    |  |   |                                     |
|---|--------------------|--|---|-------------------------------------|
|   | 07/06/20 19:01 EST |  | 0 | Marine Thunderstorm Wind (MG 35 kt) |
|   | 07/06/20 19:01 EST |  | 0 | Source: Buoy                        |

A wind gust of 35 knots (40 MPH) was measured by a buoy near Thomas Point.

| CHOPTANK RIVER TO CAMBRIDGE MD AND THE LITTLE CHOPTANK RIVER COUNTY --- BLACKWALNUT HARBOR (BWH) [38.68, -76.33] |                    |  |   |                                     |
|--|--------------------|--|---|-------------------------------------|
|  | 07/06/20 19:26 EST |  | 0 | Marine Thunderstorm Wind (MG 36 kt) |
|  | 07/06/20 19:36 EST |  | 0 | Source: Buoy                        |

Wind gusts of 34 to 36 knots (39 to 41 MPH) were measured by a buoy in Blackwalnut Harbor.

| CHOPTANK RIVER TO CAMBRIDGE MD AND THE LITTLE CHOPTANK RIVER COUNTY --- CAMBRIDGE (CAMP2) [38.57, -76.07] |                    |  |   |                                     |
|---|--------------------|--|---|-------------------------------------|
|   | 07/06/20 19:36 EST |  | 0 | Marine Thunderstorm Wind (MG 34 kt) |
|   | 07/06/20 20:00 EST |  | 0 | Source: Buoy                        |

Wind gusts of 34 knots (39 MPH) were measured at a buoy near Cambridge.

| TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- RACCOON POINT (RAC) [38.14, -75.79] |                    |  |   |                                     |
|---|--------------------|--|---|-------------------------------------|
|   | 07/06/20 20:54 EST |  | 0 | Marine Thunderstorm Wind (MG 36 kt) |
|   | 07/06/20 20:54 EST |  | 0 | Source: Buoy                        |

A wind gust of 36 knots (41 MPH) was measured by a buoy near Raccoon Point.

| CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- LOWER HOOPER ISLAND (HPR) [38.26, -76.18] |                    |  |   |                                     |
|--|--------------------|--|---|-------------------------------------|
|  | 07/06/20 21:05 EST |  | 0 | Marine Thunderstorm Wind (MG 43 kt) |
|  | 07/06/20 21:35 EST |  | 0 | Source: Buoy                        |

Wind gusts of 34 to 43 knots (39 to 49 MPH) were measured by a buoy near lower Hooper Island.

| TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- BISHOPS HEAD (BISM2) [38.22, -76.04] |                    |  |   |                                     |
|--|--------------------|--|---|-------------------------------------|
|  | 07/06/20 21:06 EST |  | 0 | Marine Thunderstorm Wind (MG 34 kt) |
|  | 07/06/20 21:24 EST |  | 0 | Source: Buoy                        |

Wind gusts to 34 knots (39 MPH) were measured by a buoy near Bishops Head Pier.

| TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- POINT LOOKOUT (PTL) [38.04, -76.32] |                    |  |   |                                     |
|--|--------------------|--|---|-------------------------------------|
|  | 07/06/20 21:32 EST |  | 0 | Marine Thunderstorm Wind (EG 36 kt) |
|  | 07/06/20 21:47 EST |  | 0 | Source: Buoy                        |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|-----------|-------------------|---------------------|------------------------|
|----------|-----------|-------------------|---------------------|------------------------|

Wind gusts of 34 to 36 knots (39 to 41 MPH) were measured by a buoy near Point Lookout.

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**PATUXENT RIVER TO BROOMES ISLAND MD COUNTY --- SOLOMONS ISLAND (SLIM2) [38.32, -76.45]**

|  |                    |   |  |                                     |
|--|--------------------|---|--|-------------------------------------|
|  | 07/06/20 21:36 EST | 0 |  | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/06/20 22:42 EST | 0 |  | Source: Buoy                        |

A thunderstorm produced estimated wind gusts to 34 knots (39 MPH) near a buoy near Solomons Island.

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**TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- POTOMAC LIGHT 33 (LT3) [38.34, -76.99]**

|  |                    |   |  |                                     |
|--|--------------------|---|--|-------------------------------------|
|  | 07/06/20 22:32 EST | 0 |  | Marine Thunderstorm Wind (MG 37 kt) |
|  | 07/06/20 22:32 EST | 0 |  | Source: Buoy                        |

A wind gust of 37 knots (43 MPH) was measured by a buoy near Potomac Light.

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**TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.5 E BABER POINT (BAB) [38.31, -77.00]**

|  |                    |   |  |                                     |
|--|--------------------|---|--|-------------------------------------|
|  | 07/06/20 22:34 EST | 0 |  | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/06/20 22:39 EST | 0 |  | Source: Buoy                        |

A thunderstorm produced a estimated wind gusts to 34 knots (39 MPH) near a buoy near Dahlgren (PYL).

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**TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- COBB POINT (COB) [38.24, -76.83]**

|  |                    |   |  |                                     |
|--|--------------------|---|--|-------------------------------------|
|  | 07/06/20 22:39 EST | 0 |  | Marine Thunderstorm Wind (MG 37 kt) |
|  | 07/06/20 23:19 EST | 0 |  | Source: Buoy                        |

Wind gusts of 34 to 37 knots (39 to 43 MPH) were measured by a buoy near Cobb Island.

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**TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- MONROE CREEK (MON) [38.23, -76.95]**

|  |                    |   |  |                                     |
|--|--------------------|---|--|-------------------------------------|
|  | 07/06/20 22:41 EST | 0 |  | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/06/20 23:06 EST | 0 |  | Source: Buoy                        |

A thunderstorm produced estimated wind gusts to 34 knots (39 MPH) near a buoy near Monroe Creek.

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**PATUXENT RIVER TO BROOMES ISLAND MD COUNTY --- SOLOMONS ISLAND (SLIM2) [38.32, -76.45]**

|  |                    |   |  |                                     |
|--|--------------------|---|--|-------------------------------------|
|  | 07/06/20 22:42 EST | 0 |  | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/06/20 22:42 EST | 0 |  | Source: Buoy                        |

A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a second buoy near Solomons Island.

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**CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- PATUXENT RIVER ASOS (KNHK) [38.29, -76.41]**

|  |                    |   |  |                                     |
|--|--------------------|---|--|-------------------------------------|
|  | 07/06/20 23:04 EST | 0 |  | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/06/20 23:04 EST | 0 |  | Source: ASOS                        |

A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near the military ASOS at Patuxent River Naval Air Station (KNHK).

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**TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT (PPTM2) [38.13, -76.53]**

|  |                    |   |  |                                     |
|--|--------------------|---|--|-------------------------------------|
|  | 07/06/20 23:06 EST | 0 |  | Marine Thunderstorm Wind (MG 46 kt) |
|  | 07/06/20 23:36 EST | 0 |  | Source: Buoy                        |

Wind gusts of 34 to 46 knots (39 to 53 MPH) were measured at a buoy near Piney Point.

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**TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- POINT LOOKOUT (PTL) [38.04, -76.32]**

|  |                    |   |  |                                     |
|--|--------------------|---|--|-------------------------------------|
|  | 07/06/20 23:47 EST | 0 |  | Marine Thunderstorm Wind (MG 35 kt) |
|  | 07/06/20 23:47 EST | 0 |  | Source: Buoy                        |

A wind gust of 35 knots (40 MPH) was measured by a buoy near Point Lookout.

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**CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- LOWER HOOPER ISLAND (HPR) [38.26, -76.18]**

|  |                    |   |  |                                     |
|--|--------------------|---|--|-------------------------------------|
|  | 07/06/20 23:50 EST | 0 |  | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/06/20 23:50 EST | 0 |  | Source: Buoy                        |

A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy near Lower Hooper Island.

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| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|-----------|-------------------|---------------------|------------------------|
|----------|-----------|-------------------|---------------------|------------------------|

Clusters of strong to severe thunderstorms produced numerous wind gusts over the tidal Potomac River and Maryland portion of the Chesapeake Bay during the early evening hours of Monday, July 6th, 2020.

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**TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- COBB POINT (COB) [38.24, -76.83]**

|  |                    |   |                                     |
|--|--------------------|---|-------------------------------------|
|  | 07/07/20 12:19 EST | 0 | Marine Thunderstorm Wind (MG 37 kt) |
|  | 07/07/20 12:34 EST | 0 | Source: Buoy                        |

Wind gusts of 34 to 37 knots (39 to 43 MPH) were measured by a buoy near Cobb Island.

An isolated storm formed along the river breeze and crossed the Tidal Potomac during the early afternoon hours.

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**TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 5.5 S POTOMAC POINT LOOKOUT BUOY (44042) [37.95, -76.35]**

|  |                    |   |                                     |
|--|--------------------|---|-------------------------------------|
|  | 07/14/20 03:04 EST | 0 | Marine Thunderstorm Wind (MG 35 kt) |
|  | 07/14/20 03:14 EST | 0 | Source: Mesonet                     |

Wind gusts of 34 to 35 knots (39 to 40 MPH) were measured by a mesonet at Marshalls Beach.

An isolated thunderstorm produced gusty winds over the lower tidal Potomac River during the early morning hours of Tuesday, July 14th, 2020.

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**TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- 5.5 S POTOMAC POINT LOOKOUT BUOY (44042) [37.95, -76.35]**

|  |                    |   |                                     |
|--|--------------------|---|-------------------------------------|
|  | 07/17/20 14:09 EST | 0 | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/17/20 14:09 EST | 0 | Source: Mesonet                     |

A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a mesonet on Marshalls Beach.

An isolated thunderstorm produced gusty winds over the lower tidal Potomac River during the afternoon hours of Friday, July 17th, 2020.

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**CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 1.3 ENE SHADY SIDE ES (SHADY) [38.85, -76.49]**

|  |                    |   |                                     |
|--|--------------------|---|-------------------------------------|
|  | 07/20/20 17:45 EST | 0 | Marine Thunderstorm Wind (MG 43 kt) |
|  | 07/20/20 18:00 EST | 0 | Source: Mesonet                     |

Wind gusts of 34 to 43 knots (39 to 49 MPH) were measured by a mesonet near Galesville.

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**TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 2.7 SE LEESYLVANIA STATE PARK (LSLVN) [38.64, -77.22]**

|  |                    |   |                                     |
|--|--------------------|---|-------------------------------------|
|  | 07/20/20 17:45 EST | 0 | Marine Thunderstorm Wind (MG 35 kt) |
|  | 07/20/20 17:55 EST | 0 | Source: Buoy                        |

Wind gusts of 34 to 35 knots (39 to 40 MPH) were measured by a buoy in Occoquan Bay.

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**CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- TOLLY POINT (TOL) [38.94, -76.44]**

|  |                    |   |                                     |
|--|--------------------|---|-------------------------------------|
|  | 07/20/20 17:53 EST | 0 | Marine Thunderstorm Wind (MG 39 kt) |
|  | 07/20/20 17:58 EST | 0 | Source: Buoy                        |

Wind gusts of 34 to 39 knots (39 to 45 MPH) were measured by a buoy near Tolly Point.

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**CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT (TPLM2) [38.90, -76.44]**

|  |                    |   |                                     |
|--|--------------------|---|-------------------------------------|
|  | 07/20/20 18:00 EST | 0 | Marine Thunderstorm Wind (MG 39 kt) |
|  | 07/20/20 18:15 EST | 0 | Source: Buoy                        |

Wind gusts of 34 to 39 knots (39 to 45 MPH) were measured by a buoy near Thomas Point.

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**CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- (KW29)BAY BRIDGE AIRPORT [38.98, -76.33]**

|  |                    |   |                                     |
|--|--------------------|---|-------------------------------------|
|  | 07/20/20 18:15 EST | 0 | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/20/20 18:15 EST | 0 | Source: AWOS                        |

A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near the AWOS at Bay Bridge Airport (KW29).

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**CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.8 WSW (KW29)BAY BRIDGE AIRPORT [38.98, -76.34]**

|  |                    |   |                                     |
|--|--------------------|---|-------------------------------------|
|  | 07/20/20 18:15 EST | 0 | Marine Thunderstorm Wind (MG 37 kt) |
|  | 07/20/20 18:15 EST | 0 | Source: Mesonet                     |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location  | Date/Time          | Deaths &<br>Injuries | Property &<br>Crop Dmg | Event Type and Details              |
|---|--------------------|----------------------|------------------------|-------------------------------------|
| A wind gust of 37 knots (43 MPH) was measured by a mesonet near Stevensville.   |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- POTOMAC LIGHT 33 (LT3) [38.34, -76.99]</b>  |                    |                      |                        |                                     |
|   | 07/20/20 18:32 EST | 0                    |                        | Marine Thunderstorm Wind (MG 40 kt) |
|   | 07/20/20 19:12 EST | 0                    |                        | Source: Buoy                        |
| Wind gusts of 34 to 40 knots (39 to 46 MPH) were measured by a buoy near Potomac Light.   |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.5 E BABER POINT (BAB) [38.31, -77.00]</b>   |                    |                      |                        |                                     |
|   | 07/20/20 18:42 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/20/20 18:47 EST | 0                    |                        | Source: Buoy                        |
| A thunderstorm produced estimated wind gusts to 34 knots (39 MPH) near a buoy near Dahlgren (PYL).  |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- BABER POINT (BAB) [38.31, -77.03]</b>   |                    |                      |                        |                                     |
|   | 07/20/20 18:46 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/20/20 18:46 EST | 0                    |                        | Source: Buoy                        |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy near Baber Point.   |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- MONROE CREEK (MON) [38.23, -76.95]</b>  |                    |                      |                        |                                     |
|   | 07/20/20 19:00 EST | 0                    |                        | Marine Thunderstorm Wind (MG 34 kt) |
|   | 07/20/20 19:05 EST | 0                    |                        | Source: Buoy                        |
| Wind gusts of 34 knots (39 MPH) were measured by a buoy near Monroe Creek.  |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- COBB POINT (COB) [38.24, -76.83]</b>  |                    |                      |                        |                                     |
|   | 07/20/20 19:04 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/20/20 19:04 EST | 0                    |                        | Source: Buoy                        |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy near Cobb Island.   |                    |                      |                        |                                     |
| <b>PATUXENT RIVER TO BROOMES ISLAND MD COUNTY --- 0.8 NE CHESAPEAKE BIOLOGICAL LABORATORY (CBIM2) [38.33, -76.47]</b>   |                    |                      |                        |                                     |
|   | 07/20/20 19:13 EST | 0                    |                        | Marine Thunderstorm Wind (MG 36 kt) |
|   | 07/20/20 19:13 EST | 0                    |                        | Source: Mesonet                     |
| A wind gust of 36 knots (41 MPH) was measured by a mesonet near MD-4 Governor Thomas Johnson Bridge.  |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- GEORGE MASON ES (ALXD2) [38.83, -77.07]</b>  |                    |                      |                        |                                     |
|   | 07/20/20 19:20 EST | 0                    |                        | Marine Thunderstorm Wind (MG 36 kt) |
|   | 07/20/20 19:20 EST | 0                    |                        | Source: Mesonet                     |
| A wind gust of 36 knots (41 MPH) was measured at George Mason Elementary School.  |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.4 NNE BABER POINT (BAB) [38.33, -77.02]</b>   |                    |                      |                        |                                     |
|   | 07/20/20 19:43 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/20/20 19:43 EST | 0                    |                        | Source: Buoy                        |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy near Dahlgren (T70).  |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- POTOMAC LIGHT 33 (LT3) [38.34, -76.99]</b>  |                    |                      |                        |                                     |
|   | 07/20/20 19:47 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/20/20 19:47 EST | 0                    |                        | Source: Buoy                        |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy near Potomac Light.   |                    |                      |                        |                                     |
| <b>Several rounds of strong to severe thunderstorms moved from northern Virginia across the tidal Potomac River, central and southern Maryland and into the Maryland portion of the Chesapeake Bay during the afternoon and evening hours of Monday, July 20th, 2020.</b> |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 2.7 SE LEESYLVANIA STATE PARK (LSLVN) [38.64, -77.22]</b>   |                    |                      |                        |                                     |
|   | 07/21/20 17:35 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/21/20 17:35 EST | 0                    |                        | Source: Buoy                        |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location   | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details              |
|--|--------------------|-------------------|---------------------|-------------------------------------|
| A thunderstorm produced a wind gust to 34 knots (39 MPH) near a buoy in Occoquan Bay.                |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- QUANTICO (KNYG) [38.51, -77.30]</b>              |                    |                   |                     |                                     |
|  | 07/21/20 18:29 EST |                   | 0                   | Marine Thunderstorm Wind (MG 42 kt) |
|  | 07/21/20 18:29 EST |                   | 0                   | Source: ASOS                        |
| A wind gust of 42 knots (48 MPH) was measured by the military ASOS at Quantico (KNYG).               |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.5 E BABER POINT (BAB) [38.31, -77.00]</b>      |                    |                   |                     |                                     |
|  | 07/21/20 18:57 EST |                   | 0                   | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/21/20 19:02 EST |                   | 0                   | Source: Buoy                        |
| A thunderstorm produced estimated wind gusts to 34 knots (39 MPH) near a buoy near Dahlgren (PYL).   |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- CUCKOLD CREEK (CCK) [38.31, -76.93]</b>          |                    |                   |                     |                                     |
|  | 07/21/20 18:57 EST |                   | 0                   | Marine Thunderstorm Wind (MG 37 kt) |
|  | 07/21/20 19:07 EST |                   | 0                   | Source: Buoy                        |
| Wind gusts of 34 to 37 knots (39 to 43 MPH) were measured by a buoy near Cuckold Creek.              |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- POTOMAC LIGHT 33 (LT3) [38.34, -76.99]</b>       |                    |                   |                     |                                     |
|  | 07/21/20 18:57 EST |                   | 0                   | Marine Thunderstorm Wind (MG 37 kt) |
|  | 07/21/20 19:12 EST |                   | 0                   | Source: Buoy                        |
| Wind gusts of 34 to 37 knots (39 to 43 MPH) were measured by a buoy near Potomac Light.              |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.4 NNE BABER POINT (BAB) [38.33, -77.02]</b>    |                    |                   |                     |                                     |
|  | 07/21/20 18:58 EST |                   | 0                   | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/21/20 18:58 EST |                   | 0                   | Source: Buoy                        |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy near Dahlgren (T70). |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- COBB POINT (COB) [38.24, -76.83]</b>           |                    |                   |                     |                                     |
|  | 07/21/20 18:59 EST |                   | 0                   | Marine Thunderstorm Wind (MG 47 kt) |
|  | 07/21/20 19:29 EST |                   | 0                   | Source: Buoy                        |
| Wind gusts of 34 to 47 knots (39 to 54 MPH) were measured by a buoy near Cobb Island.                |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- BABER POINT (BAB) [38.31, -77.03]</b>            |                    |                   |                     |                                     |
|  | 07/21/20 19:01 EST |                   | 0                   | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/21/20 19:01 EST |                   | 0                   | Source: Buoy                        |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy near Baber Point.    |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- MONROE CREEK (MON) [38.23, -76.95]</b>           |                    |                   |                     |                                     |
|  | 07/21/20 19:05 EST |                   | 0                   | Marine Thunderstorm Wind (MG 35 kt) |
|  | 07/21/20 19:20 EST |                   | 0                   | Source: Buoy                        |
| Wind gusts of 34 to 35 knots (39 to 40 MPH) were measured by a buoy near Monroe Creek.               |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT (PPTM2) [38.13, -76.53]</b>        |                    |                   |                     |                                     |
|  | 07/21/20 19:42 EST |                   | 0                   | Marine Thunderstorm Wind (MG 37 kt) |
|  | 07/21/20 20:12 EST |                   | 0                   | Source: Buoy                        |
| Wind gusts of 34 to 37 knots (39 to 43 MPH) were measured by a buoy near Piney Point.                |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- COBB POINT (COB) [38.24, -76.83]</b>           |                    |                   |                     |                                     |
|  | 07/21/20 19:44 EST |                   | 0                   | Marine Thunderstorm Wind (MG 36 kt) |
|  | 07/21/20 19:54 EST |                   | 0                   | Source: Buoy                        |
| Wind gusts of 34 to 36 knots (39 to 41 MPH) were measured by a buoy near Cobb Point.                 |                    |                   |                     |                                     |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location  | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details              |
|---|--------------------|-------------------|---------------------|-------------------------------------|
| <b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- ST INIGOES (KNUI) [38.13, -76.42]</b>   |                    |                   |                     |                                     |
|   | 07/21/20 20:15 EST |                   | 0                   | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/21/20 20:15 EST |                   | 0                   | Source: ASOS                        |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near the military ASOS at Saint Inigoes (KNUI).   |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- POINT LOOKOUT (PTL) [38.04, -76.32]</b>   |                    |                   |                     |                                     |
|   | 07/21/20 20:17 EST |                   | 0                   | Marine Thunderstorm Wind (MG 35 kt) |
|   | 07/21/20 20:22 EST |                   | 0                   | Source: Buoy                        |
| Wind gusts of 34 to 35 knots (39 to 40 MPH) were measured by a buoy near Point Lookout.   |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT (PPTM2) [38.13, -76.53]</b>   |                    |                   |                     |                                     |
|   | 07/21/20 20:18 EST |                   | 0                   | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/21/20 20:18 EST |                   | 0                   | Source: Buoy                        |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy near Piney Point.   |                    |                   |                     |                                     |
| <b>CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- LOWER HOOPER ISLAND (HPR) [38.26, -76.18]</b>   |                    |                   |                     |                                     |
|   | 07/21/20 20:32 EST |                   | 0                   | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/21/20 20:37 EST |                   | 0                   | Source: Buoy                        |
| A thunderstorm produced estimated wind gusts to 34 knots (39 MPH) near a buoy near Lower Hooper Island.   |                    |                   |                     |                                     |
| <b>CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- PATUXENT RIVER ASOS (KNHK) [38.29, -76.41]</b>  |                    |                   |                     |                                     |
|   | 07/21/20 20:45 EST |                   | 0                   | Marine Thunderstorm Wind (MG 36 kt) |
|   | 07/21/20 20:45 EST |                   | 0                   | Source: ASOS                        |
| A wind gust of 36 knots (41 MPH) was measured by the military ASOS at Patuxent River Naval Air Station (KNHK).  |                    |                   |                     |                                     |
| <b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- BISHOPS HEAD (BISM2) [38.22, -76.04]</b>   |                    |                   |                     |                                     |
|   | 07/21/20 20:48 EST |                   | 0                   | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/21/20 20:54 EST |                   | 0                   | Source: Buoy                        |
| A thunderstorm produced estimated wind gusts to 34 knots (39 MPH) near a buoy near Bishops Head Pier.   |                    |                   |                     |                                     |
| <b>CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- LOWER HOOPER ISLAND (HPR) [38.26, -76.18]</b>   |                    |                   |                     |                                     |
|   | 07/21/20 20:57 EST |                   | 0                   | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/21/20 20:57 EST |                   | 0                   | Source: Buoy                        |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy near Lower Hooper Island.   |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT (PPTM2) [38.13, -76.53]</b>   |                    |                   |                     |                                     |
|   | 07/21/20 21:30 EST |                   | 0                   | Marine Thunderstorm Wind (MG 44 kt) |
|   | 07/21/20 21:30 EST |                   | 0                   | Source: Buoy                        |
| A wind gust of 44 knots (51 MPH) was measured by a buoy near Piney Point.   |                    |                   |                     |                                     |
| <b>Clusters of strong to severe thunderstorms moved across the waters adjacent to southern Maryland during the early evening hours of Tuesday, July 21st, 2020.</b> |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 2.7 SE LEESYLVANIA STATE PARK (LSLVN) [38.64, -77.22]</b>   |                    |                   |                     |                                     |
|   | 07/22/20 14:40 EST |                   | 0                   | Marine Thunderstorm Wind (MG 37 kt) |
|   | 07/22/20 14:55 EST |                   | 0                   | Source: Buoy                        |
| Wind gusts of 34 to 37 knots (39 to 43 MPH) were measured by a buoy in Occoquan Bay.  |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- QUANTICO (KNYG) [38.51, -77.30]</b>   |                    |                   |                     |                                     |
|   | 07/22/20 14:44 EST |                   | 0                   | Marine Thunderstorm Wind (MG 46 kt) |
|   | 07/22/20 15:12 EST |                   | 0                   | Source: ASOS                        |
| Wind gusts of 34 to 46 knots (39 to 53 MPH) were measured by the military ASOS at Quantico (KNYG).  |                    |                   |                     |                                     |



## Storm Data and Unusual Weather Phenomena - July 2020

| Location  | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details              |
|---|--------------------|-------------------|---------------------|-------------------------------------|
| <b>TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- (DCA)REAGAN NATIONAL AIRPORT [38.86, -77.03]</b>             |                    |                   |                     |                                     |
|   | 07/22/20 14:45 EST |                   | 0                   | Marine Thunderstorm Wind (MG 50 kt) |
|   | 07/22/20 14:54 EST |                   | 0                   | Source: ASOS                        |
| Wind gusts of 38 to 50 knots were measured by the ASOS at Ronald Reagan Washington National Airport (KDCA).         |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.5 E BABER POINT (BAB) [38.31, -77.00]</b>                     |                    |                   |                     |                                     |
|   | 07/22/20 14:52 EST |                   | 0                   | Marine Thunderstorm Wind (MG 42 kt) |
|   | 07/22/20 14:57 EST |                   | 0                   | Source: Buoy                        |
| Wind gusts of 38 to 42 knots (44 to 48 MPH) were measured by a buoy near Dahlgren (PYL).                            |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.4 NNE BABER POINT (BAB) [38.33, -77.02]</b>                   |                    |                   |                     |                                     |
|   | 07/22/20 14:53 EST |                   | 0                   | Marine Thunderstorm Wind (EG 36 kt) |
|   | 07/22/20 14:58 EST |                   | 0                   | Source: Buoy                        |
| Wind gusts of 34 to 36 knots (39 to 44 MPH) were measured by a buoy near Dahlgren (T70).                            |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 0.8 NNW (DCA)REAGAN NATIONAL AIRPORT [38.87, -77.04]</b>     |                    |                   |                     |                                     |
|   | 07/22/20 14:54 EST |                   | 0                   | Marine Thunderstorm Wind (MG 41 kt) |
|   | 07/22/20 14:54 EST |                   | 0                   | Source: Mesonet                     |
| A wind gust of 41 knots (47 MPH) was measured by a mesonet near the upper tidal Potomac River in Arlington (ARLNN). |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- WASHINGTON DC (WASD2) [38.87, -77.02]</b>                    |                    |                   |                     |                                     |
|   | 07/22/20 14:54 EST |                   | 0                   | Marine Thunderstorm Wind (MG 43 kt) |
|   | 07/22/20 15:06 EST |                   | 0                   | Source: Buoy                        |
| Wind gusts of 34 to 43 knots (39 to 49 MPH) were measured by a buoy in Washington Channel.                          |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- POTOMAC LIGHT 33 (LT3) [38.34, -76.99]</b>                      |                    |                   |                     |                                     |
|   | 07/22/20 14:57 EST |                   | 0                   | Marine Thunderstorm Wind (MG 34 kt) |
|   | 07/22/20 14:57 EST |                   | 0                   | Source: Buoy                        |
| A wind gust of 34 knots (39 MPH) was measured by a buoy near Potomac Light.   |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- NATIONALS PARK (WSHNP) [38.87, -77.01]</b>                   |                    |                   |                     |                                     |
|   | 07/22/20 15:00 EST |                   | 0                   | Marine Thunderstorm Wind (MG 43 kt) |
|   | 07/22/20 15:00 EST |                   | 0                   | Source: Mesonet                     |
| A wind gust of 43 knots (49 MPH) was measured by a mesonet at Nationals Park.                                       |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- CUCKOLD CREEK (CCK) [38.31, -76.93]</b>                         |                    |                   |                     |                                     |
|   | 07/22/20 15:12 EST |                   | 0                   | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/22/20 15:12 EST |                   | 0                   | Source: Buoy                        |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy near Cuckold Creek.                 |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- POTOMAC LIGHT 33 (LT3) [38.34, -76.99]</b>                      |                    |                   |                     |                                     |
|   | 07/22/20 15:27 EST |                   | 0                   | Marine Thunderstorm Wind (MG 43 kt) |
|   | 07/22/20 15:52 EST |                   | 0                   | Source: Buoy                        |
| Wind gusts of 35 to 43 knots (40 to 49 MPH) were measured by a buoy near Potomac Light.                             |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- BABER POINT (BAB) [38.31, -77.03]</b>                           |                    |                   |                     |                                     |
|   | 07/22/20 15:36 EST |                   | 0                   | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/22/20 15:36 EST |                   | 0                   | Source: Buoy                        |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy near Baber Point.                   |                    |                   |                     |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.5 E BABER POINT (BAB) [38.31, -77.00]</b>                     |                    |                   |                     |                                     |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details              |
|----------|--------------------|-------------------|---------------------|-------------------------------------|
|          | 07/22/20 15:37 EST |                   | 0                   | Marine Thunderstorm Wind (MG 37 kt) |
|          | 07/22/20 15:52 EST |                   | 0                   | Source: Buoy                        |

Wind gusts of 34 to 37 knots (39 to 43 MPH) were measured by a buoy near Dahlgren (PYL).

| <b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- ANNAPOLIS (KNAK) [38.98, -76.48]</b> |                    |  |   |                                     |
|--|--------------------|--|---|-------------------------------------|
|  | 07/22/20 15:43 EST |  | 0 | Marine Thunderstorm Wind (MG 36 kt) |
|  | 07/22/20 15:43 EST |  | 0 | Source: ASOS                        |

A wind gust of 36 knots (41 MPH) was measured by the ASOS at the Annapolis Naval Academy (KNAK).

| <b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- GREENBURY POINT (GBY) [38.97, -76.46]</b> |                    |  |   |                                     |
|---|--------------------|--|---|-------------------------------------|
|   | 07/22/20 15:43 EST |  | 0 | Marine Thunderstorm Wind (MG 40 kt) |
|   | 07/22/20 15:58 EST |  | 0 | Source: Buoy                        |

Wind gusts of 35 to 40 knots (40 to 46 MPH) were measured at a buoy near Greenbury Point.

| <b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- ST MARYS ES (ANNAS) [38.98, -76.49]</b> |                    |  |   |                                     |
|---|--------------------|--|---|-------------------------------------|
|   | 07/22/20 15:43 EST |  | 0 | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/22/20 15:43 EST |  | 0 | Source: Mesonet                     |

A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near Saint Mary's Elementary School.

| <b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- TOLLY POINT (TOL) [38.94, -76.44]</b> |                    |  |   |                                     |
|---|--------------------|--|---|-------------------------------------|
|   | 07/22/20 15:43 EST |  | 0 | Marine Thunderstorm Wind (MG 41 kt) |
|   | 07/22/20 16:03 EST |  | 0 | Source: Buoy                        |

Wind gusts of 34 to 41 knots (39 to 47 MPH) were measured by a buoy near Tolly Point.

| <b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- HERRING BAY (HRB) [38.73, -76.54]</b> |                    |  |   |                                     |
|---|--------------------|--|---|-------------------------------------|
|   | 07/22/20 15:46 EST |  | 0 | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/22/20 15:46 EST |  | 0 | Source: Buoy                        |

A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy in Herring Bay.

| <b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- COBB POINT (COB) [38.24, -76.83]</b> |                    |  |   |                                     |
|--|--------------------|--|---|-------------------------------------|
|  | 07/22/20 15:49 EST |  | 0 | Marine Thunderstorm Wind (MG 42 kt) |
|  | 07/22/20 16:34 EST |  | 0 | Source: Buoy                        |

Wind gusts of 34 to 42 knots (39 to 48 MPH) were measured at a buoy near Cobb Island.

| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- MONROE CREEK (MON) [38.23, -76.95]</b> |                    |  |   |                                     |
|--|--------------------|--|---|-------------------------------------|
|  | 07/22/20 15:49 EST |  | 0 | Marine Thunderstorm Wind (MG 39 kt) |
|  | 07/22/20 16:00 EST |  | 0 | Source: Buoy                        |

Wind gusts of 34 to 39 knots (39 to 45 MPH) were measured by a buoy near Monroe Creek.

| <b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- SANDY POINT (SPT) [39.01, -76.40]</b> |                    |  |   |                                     |
|---|--------------------|--|---|-------------------------------------|
|   | 07/22/20 15:51 EST |  | 0 | Marine Thunderstorm Wind (MG 36 kt) |
|   | 07/22/20 15:56 EST |  | 0 | Source: Buoy                        |

Wind gusts of 34 to 36 knots (39 to 41 MPH) were measured by a buoy near Sandy Point.

| <b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT (TPLM2) [38.90, -76.44]</b> |                    |  |   |                                     |
|--|--------------------|--|---|-------------------------------------|
|  | 07/22/20 15:51 EST |  | 0 | Marine Thunderstorm Wind (MG 42 kt) |
|  | 07/22/20 16:05 EST |  | 0 | Source: Buoy                        |

Wind gusts of 37 to 42 knots (43 to 48 MPH) were measured by a buoy near Thomas Point.

| <b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- GUNPOWDER (GUN) [39.36, -76.37]</b> |                    |  |   |                                     |
|---|--------------------|--|---|-------------------------------------|
|   | 07/22/20 15:53 EST |  | 0 | Marine Thunderstorm Wind (MG 42 kt) |
|   | 07/22/20 16:18 EST |  | 0 | Source: Buoy                        |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|-----------|-------------------|---------------------|------------------------|
|----------|-----------|-------------------|---------------------|------------------------|

Wind gusts of 34 to 42 knots (39 to 48 MPH) were measured by a buoy near the mouth of the Gunpowder River.

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**PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- BALTIMORE (BLTM2) [39.27, -76.58]**

|  |                    |  |   |                                     |
|--|--------------------|--|---|-------------------------------------|
|  | 07/22/20 16:00 EST |  | 0 | Marine Thunderstorm Wind (MG 34 kt) |
|  | 07/22/20 16:06 EST |  | 0 | Source: Buoy                        |

Wind gusts of 34 knots (39 MPH) were measured by a buoy in Baltimore Harbor/the tidal Patapsco River.

---

**PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- BALTIMORE KEY BRIDGE (FSKM2) [39.22, -76.53]**

|  |                    |  |   |                                     |
|--|--------------------|--|---|-------------------------------------|
|  | 07/22/20 16:00 EST |  | 0 | Marine Thunderstorm Wind (MG 47 kt) |
|  | 07/22/20 16:06 EST |  | 0 | Source: Buoy                        |

Wind gusts of 34 to 47 knots (39 to 54 MPH) were measured at Francis Scott Key Bridge.

---

**PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- ORIOLE PARK AT CAMDEN YARDS (BLTPC) [39.28, -76.62]**

|  |                    |  |   |                                     |
|--|--------------------|--|---|-------------------------------------|
|  | 07/22/20 16:00 EST |  | 0 | Marine Thunderstorm Wind (MG 35 kt) |
|  | 07/22/20 16:00 EST |  | 0 | Source: Mesonet                     |

A wind gust of 35 knots (40 MPH) was measured by a mesonet at Orioles Park at Camden Yards.

---

**TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- CUCKOLD CREEK (CCK) [38.31, -76.93]**

|  |                    |  |   |                                     |
|--|--------------------|--|---|-------------------------------------|
|  | 07/22/20 16:02 EST |  | 0 | Marine Thunderstorm Wind (MG 35 kt) |
|  | 07/22/20 16:07 EST |  | 0 | Source: Buoy                        |

Wind gusts of 34 to 35 knots (39 to 40 MPH) were measured by a buoy near Cuckold Creek.

---

**PATUXENT RIVER TO BROOMES ISLAND MD COUNTY --- 0.8 NE CHESAPEAKE BIOLOGICAL LABORATORY (CBIM2) [38.33, -76.47]**

|  |                    |  |   |                                     |
|--|--------------------|--|---|-------------------------------------|
|  | 07/22/20 16:08 EST |  | 0 | Marine Thunderstorm Wind (MG 50 kt) |
|  | 07/22/20 16:08 EST |  | 0 | Source: Mesonet                     |

A wind gust of 50 knots (58 MPH) was measured by a mesonet near MD-2 Governor Thomas Johnson Bridge.

---

**CHOPTANK RIVER TO CAMBRIDGE MD AND THE LITTLE CHOPTANK RIVER COUNTY --- BLACKWALNUT HARBOR (BWH) [38.68, -76.33]**

|  |                    |  |   |                                     |
|--|--------------------|--|---|-------------------------------------|
|  | 07/22/20 16:09 EST |  | 0 | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/22/20 16:14 EST |  | 0 | Source: Buoy                        |

A thunderstorm produced estimated wind gusts to 34 knots (39 MPH) near a buoy in Blackwalnut Harbor.

---

**PATUXENT RIVER TO BROOMES ISLAND MD COUNTY --- SOLOMONS ISLAND (SLIM2) [38.32, -76.45]**

|  |                    |  |   |                                     |
|--|--------------------|--|---|-------------------------------------|
|  | 07/22/20 16:12 EST |  | 0 | Marine Thunderstorm Wind (MG 34 kt) |
|  | 07/22/20 16:12 EST |  | 0 | Source: Buoy                        |

A wind gust of 34 knots (39 MPH) was measured by a buoy near Solomons Island.

---

**CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- PATUXENT RIVER ASOS (KNHK) [38.29, -76.41]**

|  |                    |  |   |                                     |
|--|--------------------|--|---|-------------------------------------|
|  | 07/22/20 16:14 EST |  | 0 | Marine Thunderstorm Wind (MG 43 kt) |
|  | 07/22/20 16:15 EST |  | 0 | Source: ASOS                        |

Wind gusts of 42 to 43 knots (48 to 49 MPH) were measured by the military ASOS at Patuxent River Naval Air Station (KNHK).

---

**CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- HART MILLER ISLAND (HRT) [39.25, -76.37]**

|  |                    |  |   |                                     |
|--|--------------------|--|---|-------------------------------------|
|  | 07/22/20 16:16 EST |  | 0 | Marine Thunderstorm Wind (MG 47 kt) |
|  | 07/22/20 16:26 EST |  | 0 | Source: Buoy                        |

Wind gusts of 39 to 47 knots (45 to 54 MPH) were measured by a buoy near Hart Miller Island.

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**CHOPTANK RIVER TO CAMBRIDGE MD AND THE LITTLE CHOPTANK RIVER COUNTY --- CAMBRIDGE (CAMM2) [38.57, -76.07]**

|  |                    |  |   |                                     |
|--|--------------------|--|---|-------------------------------------|
|  | 07/22/20 16:18 EST |  | 0 | Marine Thunderstorm Wind (MG 35 kt) |
|  | 07/22/20 16:30 EST |  | 0 | Source: Buoy                        |

Wind gusts of 34 to 35 knots (39 to 40 MPH) were measured by a buoy near Cambridge.

## Storm Data and Unusual Weather Phenomena - July 2020

| Location   | Date/Time          | Deaths &<br>Injuries | Property &<br>Crop Dmg | Event Type and Details              |
|--|--------------------|----------------------|------------------------|-------------------------------------|
| <b>CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- GROVE POINT (GVP) [39.40, -76.04]</b>   |                    |                      |                        |                                     |
|  | 07/22/20 16:23 EST | 0                    |                        | Marine Thunderstorm Wind (MG 39 kt) |
|  | 07/22/20 16:38 EST | 0                    |                        | Source: Buoy                        |
| Wind gusts of 34 to 39 knot (39 to 45 MPH) were measured by a buoy near Grove Point.   |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- TOLCHESTER MD (TCBM2) [39.32, -76.25]</b>  |                    |                      |                        |                                     |
|  | 07/22/20 16:24 EST | 0                    |                        | Marine Thunderstorm Wind (MG 48 kt) |
|  | 07/22/20 16:42 EST | 0                    |                        | Source: Buoy                        |
| Wind gusts of 34 to 48 knots (39 to 55 MPH) were measured by a buoy near Tolchester Beach.   |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT (PPTM2) [38.13, -76.53]</b>  |                    |                      |                        |                                     |
|  | 07/22/20 16:24 EST | 0                    |                        | Marine Thunderstorm Wind (MG 39 kt) |
|  | 07/22/20 16:42 EST | 0                    |                        | Source: Buoy                        |
| Wind gusts of 34 to 39 knots (39 to 45 MPH) were measured by a buoy near Piney Point.  |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.6 W (KW29)BAY BRIDGE AIRPORT [38.98, -76.34]</b>   |                    |                      |                        |                                     |
|  | 07/22/20 16:30 EST | 0                    |                        | Marine Thunderstorm Wind (MG 35 kt) |
|  | 07/22/20 16:30 EST | 0                    |                        | Source: Buoy                        |
| A wind gust of 35 knots (40 MPH) was measured by a mesonet near Stevensville.  |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- LEWISSETTA MD (LWTV2) [38.00, -76.47]</b>  |                    |                      |                        |                                     |
|  | 07/22/20 16:42 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/22/20 16:42 EST | 0                    |                        | Source: Buoy                        |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy near Lewisetta.  |                    |                      |                        |                                     |
| <b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- BISHOPS HEAD (BISM2) [38.22, -76.04]</b>  |                    |                      |                        |                                     |
|  | 07/22/20 16:48 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/22/20 16:48 EST | 0                    |                        | Source: Buoy                        |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy near Bishops Head Pier.  |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- COBB POINT (COB) [38.24, -76.83]</b>   |                    |                      |                        |                                     |
|  | 07/22/20 17:34 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/22/20 17:34 EST | 0                    |                        | Source: Buoy                        |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy near Cobb Island.  |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT (PPTM2) [38.13, -76.53]</b>  |                    |                      |                        |                                     |
|  | 07/22/20 18:06 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/22/20 18:06 EST | 0                    |                        | Source: Buoy                        |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy near Piney Point.  |                    |                      |                        |                                     |
| <b>Strong to severe thunderstorms coalesced into a bow echo/squall line which moved eastward across the tidal Potomac River and Maryland portion of the Chesapeake Bay during the mid afternoon hours of Wednesday, July 22nd, 2020.</b> |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- COBB POINT (COB) [38.24, -76.83]</b>   |                    |                      |                        |                                     |
|  | 07/23/20 18:04 EST | 0                    |                        | Marine Thunderstorm Wind (MG 37 kt) |
|  | 07/23/20 18:24 EST | 0                    |                        | Source: Buoy                        |
| Wind gusts of 34 to 37 knots (39 to 43 MPH) were measured by a buoy near Cobb Island.  |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 2.7 SE LEESYLVANIA STATE PARK (LSLVN) [38.64, -77.22]</b>  |                    |                      |                        |                                     |
|  | 07/23/20 18:50 EST | 0                    |                        | Marine Thunderstorm Wind (MG 37 kt) |
|  | 07/23/20 19:05 EST | 0                    |                        | Source: Buoy                        |
| Wind gusts of 34 to 37 knots (39 to 43 MPH) were measured by a buoy in Occoquan Bay.   |                    |                      |                        |                                     |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location   | Date/Time          | Deaths &<br>Injuries | Property &<br>Crop Dmg | Event Type and Details              |
|--|--------------------|----------------------|------------------------|-------------------------------------|
| <b>TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- (DCA)REAGAN NATIONAL AIRPORT [38.86, -77.03]</b>                                |                    |                      |                        |                                     |
|  | 07/23/20 19:56 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/23/20 19:56 EST |                      | 0                      | Source: ASOS                        |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near the ASOS at Ronald Reagan Washington National Airport (KDCA). |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- QUANTICO (KNYG) [38.51, -77.30]</b>  |                    |                      |                        |                                     |
|  | 07/23/20 20:03 EST | 0                    |                        | Marine Thunderstorm Wind (MG 42 kt) |
|  | 07/23/20 20:03 EST |                      | 0                      | Source: ASOS                        |
| A wind gust of 42 knots (48 MPH) was measured by the military ASOS at Quantico (KNYG).   |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- GREENBURY POINT (GBY) [38.97, -76.46]</b>  |                    |                      |                        |                                     |
|  | 07/23/20 20:43 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/23/20 20:53 EST |                      | 0                      | Source: Buoy                        |
| A gust front produced estimated wind gusts to 34 knots (39 MPH) near a buoy near Greenbury Point.                                      |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- TOLLY POINT (TOL) [38.94, -76.44]</b>  |                    |                      |                        |                                     |
|  | 07/23/20 20:43 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/23/20 20:48 EST |                      | 0                      | Source: Buoy                        |
| A gust front produced estimated wind gusts to 34 knots (39 MPH) near a buoy near Tolly Point.  |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT (TPLM2) [38.90, -76.44]</b>   |                    |                      |                        |                                     |
|  | 07/23/20 21:00 EST | 0                    |                        | Marine Thunderstorm Wind (MG 35 kt) |
|  | 07/23/20 21:00 EST |                      | 0                      | Source: Buoy                        |
| A wind gust of 35 knots (39 MPH) was measured at a buoy near Thomas Point.   |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- GROVE POINT (GVP) [39.40, -76.04]</b>   |                    |                      |                        |                                     |
|  | 07/23/20 22:08 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/23/20 22:08 EST |                      | 0                      | Source: Buoy                        |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy near Grove Point.                                      |                    |                      |                        |                                     |
| <b>Scattered strong thunderstorms produced gusty winds over the tidal Potomac River and upper Chesapeake Bay.</b>                      |                    |                      |                        |                                     |
| <b>PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- BALTIMORE (BLTM2) [39.27, -76.58]</b>  |                    |                      |                        |                                     |
|  | 07/24/20 17:30 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/24/20 17:30 EST |                      | 0                      | Source: Buoy                        |
| A thunderstorm produced an estimated wind gust up to 34 knots (39 MPH) near a buoy in Baltimore Harbor/the tidal Patapsco River.       |                    |                      |                        |                                     |
| <b>An isolated strong thunderstorm produced gusty winds of Baltimore Harbor/the tidal Patapsco River.</b>                              |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.5 E BABER POINT (BAB) [38.31, -77.00]</b>  |                    |                      |                        |                                     |
|  | 07/28/20 15:52 EST | 0                    |                        | Marine Thunderstorm Wind (MG 35 kt) |
|  | 07/28/20 16:07 EST |                      | 0                      | Source: Buoy                        |
| Wind gusts of 34 to 35 knots (39 to 40 MPH) were measured by a buoy near Dahlgren (PYL).   |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- BABER POINT (BAB) [38.31, -77.03]</b>  |                    |                      |                        |                                     |
|  | 07/28/20 15:56 EST | 0                    |                        | Marine Thunderstorm Wind (MG 36 kt) |
|  | 07/28/20 15:56 EST |                      | 0                      | Source: Buoy                        |
| A wind gust of 36 knots (41 MPH) was measured by a buoy near Baber Point.  |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- POTOMAC LIGHT 33 (LT3) [38.34, -76.99]</b>   |                    |                      |                        |                                     |
|  | 07/28/20 15:57 EST | 0                    |                        | Marine Thunderstorm Wind (MG 41 kt) |
|  | 07/28/20 16:12 EST |                      | 0                      | Source: Buoy                        |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|-----------|-------------------|---------------------|------------------------|
|----------|-----------|-------------------|---------------------|------------------------|

Wind gusts of 34 to 41 knots (39 to 47 MPH) were measured by a buoy near Potomac Light.

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**TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- CUCKOLD CREEK (CCK) [38.31, -76.93]**

|  |                    |   |  |                                     |
|--|--------------------|---|--|-------------------------------------|
|  | 07/28/20 16:02 EST | 0 |  | Marine Thunderstorm Wind (MG 57 kt) |
|  | 07/28/20 16:22 EST | 0 |  | Source: Buoy                        |

Wind gusts of 34 to 57 knots (39 to 66 MPH) were measured by a buoy near Cuckold Creek.

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**TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.1 SW POTOMAC RIVER BUOY (44067) [38.36, -77.02]**

|  |                    |   |  |                                     |
|--|--------------------|---|--|-------------------------------------|
|  | 07/28/20 16:08 EST | 0 |  | Marine Thunderstorm Wind (MG 40 kt) |
|  | 07/28/20 16:13 EST | 0 |  | Source: Mesonet                     |

Wind gusts of 37 to 40 knots (43 to 46 MPH) were measured by a mesonet near US-301 Governor Harry Nice Memorial Bridge.

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**TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- COBB POINT (COB) [38.24, -76.83]**

|  |                    |   |  |                                     |
|--|--------------------|---|--|-------------------------------------|
|  | 07/28/20 16:19 EST | 0 |  | Marine Thunderstorm Wind (MG 44 kt) |
|  | 07/28/20 16:24 EST | 0 |  | Source: Buoy                        |

Wind gusts of 34 to 44 knots (39 to 51 MPH) were measured at a buoy near Cobb Island.

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**PATUXENT RIVER TO BROOMES ISLAND MD COUNTY --- 0.8 NE CHESAPEAKE BIOLOGICAL LABORATORY (CBIM2) [38.33, -76.47]**

|  |                    |   |  |                                     |
|--|--------------------|---|--|-------------------------------------|
|  | 07/28/20 17:09 EST | 0 |  | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/28/20 17:14 EST | 0 |  | Source: Mesonet                     |

A thunderstorm produced estimated wind gusts up to 34 knots (39 MPH) near a mesonet near MD-4 Governor Thomas Johnson Bridge.

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**PATUXENT RIVER TO BROOMES ISLAND MD COUNTY --- SOLOMONS ISLAND (SLIM2) [38.32, -76.45]**

|  |                    |   |  |                                     |
|--|--------------------|---|--|-------------------------------------|
|  | 07/28/20 17:09 EST | 0 |  | Marine Thunderstorm Wind (MG 36 kt) |
|  | 07/28/20 17:09 EST | 0 |  | Source: Mesonet                     |

A wind gust of 36 knots (41 MPH) was measured by a mesonet near Solomons Island.

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**PATUXENT RIVER TO BROOMES ISLAND MD COUNTY --- SOLOMONS ISLAND (SLIM2) [38.32, -76.45]**

|  |                    |   |  |                                     |
|--|--------------------|---|--|-------------------------------------|
|  | 07/28/20 17:18 EST | 0 |  | Marine Thunderstorm Wind (MG 43 kt) |
|  | 07/28/20 17:24 EST | 0 |  | Source: Buoy                        |

Wind gusts of 37 to 43 knots (43 to 48 MPH) were measured by a buoy near Solomons Island.

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**CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- 2.1 NNW POINT LOOKOUT (PTL) [38.07, -76.33]**

|  |                    |   |  |                                     |
|--|--------------------|---|--|-------------------------------------|
|  | 07/28/20 17:59 EST | 0 |  | Marine Thunderstorm Wind (MG 36 kt) |
|  | 07/28/20 17:59 EST | 0 |  | Source: Mesonet                     |

A wind gust of 36 knots (41 MPH) was measured by a mesonet at Scotland Beach.

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**TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- POINT LOOKOUT (PTL) [38.04, -76.32]**

|  |                    |   |  |                                     |
|--|--------------------|---|--|-------------------------------------|
|  | 07/28/20 17:59 EST | 0 |  | Marine Thunderstorm Wind (MG 41 kt) |
|  | 07/28/20 18:04 EST | 0 |  | Source: Buoy                        |

Wind gusts of 37 to 41 knots (43 to 47 MPH) were measured by a buoy near Point Lookout.

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**CHOPTANK RIVER TO CAMBRIDGE MD AND THE LITTLE CHOPTANK RIVER COUNTY --- CAMBRIDGE (CAMM2) [38.57, -76.07]**

|  |                    |   |  |                                     |
|--|--------------------|---|--|-------------------------------------|
|  | 07/28/20 18:00 EST | 0 |  | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/28/20 18:00 EST | 0 |  | Source: Buoy                        |

A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy near Cambridge.

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**TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- BISHOPS HEAD (BISM2) [38.22, -76.04]**

|  |                    |   |  |                                     |
|--|--------------------|---|--|-------------------------------------|
|  | 07/28/20 18:24 EST | 0 |  | Marine Thunderstorm Wind (MG 47 kt) |
|  | 07/28/20 18:48 EST | 0 |  | Source: Buoy                        |

Wind gusts of 34 to 47 knots (39 to 54 MPH) were measured by a buoy near Bishops Head Pier.

## Storm Data and Unusual Weather Phenomena - July 2020

| Location  | Date/Time          | Deaths &<br>Injuries | Property &<br>Crop Dmg | Event Type and Details              |
|---|--------------------|----------------------|------------------------|-------------------------------------|
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.5 E BABER POINT (BAB) [38.31, -77.00]</b>   |                    |                      |                        |                                     |
|   | 07/28/20 18:32 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/28/20 18:42 EST | 0                    |                        | Source: Buoy                        |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy near Dahlgren (PYL).  |                    |                      |                        |                                     |
| <b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- RACCOON POINT (RAC) [38.14, -75.79]</b>  |                    |                      |                        |                                     |
|   | 07/28/20 18:44 EST | 0                    |                        | Marine Thunderstorm Wind (MG 45 kt) |
|   | 07/28/20 19:04 EST | 0                    |                        | Source: Buoy                        |
| Wind gusts of 34 to 45 knots (39 to 52 MPH) were measured by a buoy near Raccoon Point.   |                    |                      |                        |                                     |
| <b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- CRISFIELD CG (CRS) [37.97, -75.88]</b>   |                    |                      |                        |                                     |
|   | 07/28/20 18:53 EST | 0                    |                        | Marine Thunderstorm Wind (MG 34 kt) |
|   | 07/28/20 18:53 EST | 0                    |                        | Source: Buoy                        |
| A wind gust of 34 knots (39 MPH) was measured by a buoy near Crisfield.   |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- LEWISSETTA MD (LWTV2) [38.00, -76.47]</b>   |                    |                      |                        |                                     |
|   | 07/28/20 19:24 EST | 0                    |                        | Marine Thunderstorm Wind (MG 38 kt) |
|   | 07/28/20 19:36 EST | 0                    |                        | Source: Buoy                        |
| Wind gusts of 34 to 38 knots (39 to 44 MPH) were measured by a buoy near Lewisetta.   |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- POINT LOOKOUT (PTL) [38.04, -76.32]</b>   |                    |                      |                        |                                     |
|   | 07/28/20 19:34 EST | 0                    |                        | Marine Thunderstorm Wind (MG 48 kt) |
|   | 07/28/20 19:49 EST | 0                    |                        | Source: Buoy                        |
| Wind gusts of 34 to 48 knots (39 to 55 MPH) were measured by a buoy near Point Lookout.   |                    |                      |                        |                                     |
| <b>Scattered strong to severe thunderstorms developed along a stalled front and moved over the tidal Potomac River and Maryland portion of the Chesapeake Bay during the evening of Tuesday, July 28th, 2020.</b> |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.3 N CUCKOLD CREEK (CCK) [38.31, -76.93]</b>   |                    |                      |                        |                                     |
|   | 07/28/20 16:22 EST | 0                    |                        | Marine Thunderstorm Wind (MG 57 kt) |
|   | 07/28/20 16:22 EST | 0                    |                        | Source: Buoy                        |
| A wind gust of 57 knots (66 MPH) was measured by a buoy near Cuckold Creek.   |                    |                      |                        |                                     |
| <b>An isolated severe thunderstorm crossed the tidal Potomac River between the Fredericksburg area and southern Maryland.</b>   |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- (DCA)REAGAN NATIONAL AIRPORT [38.86, -77.03]</b>   |                    |                      |                        |                                     |
|   | 07/30/20 17:32 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/30/20 17:32 EST | 0                    |                        | Source: ASOS                        |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near the ASOS at Ronald Reagan Washington National Airport (KDCA).  |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.5 E BABER POINT (BAB) [38.31, -77.00]</b>   |                    |                      |                        |                                     |
|   | 07/30/20 18:02 EST | 0                    |                        | Marine Thunderstorm Wind (EG 46 kt) |
|   | 07/30/20 18:17 EST | 0                    |                        | Source: Buoy                        |
| Wind gusts of 36 to 46 knots (41 to 53 MPH) were measured by a buoy near Dahlgren (PYL).  |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.8 NNW BABER POINT (BAB) [38.32, -77.04]</b>   |                    |                      |                        |                                     |
|   | 07/30/20 18:06 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/30/20 18:18 EST | 0                    |                        | Source: Mesonet                     |
| A thunderstorm produced estimated wind gusts up to 34 knots (39 MPH) near a mesonet near Dahlgren (NCDV2).  |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- BABER POINT (BAB) [38.31, -77.03]</b>   |                    |                      |                        |                                     |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details              |
|----------|--------------------|-------------------|---------------------|-------------------------------------|
|          | 07/30/20 18:06 EST |                   | 0                   | Marine Thunderstorm Wind (MG 35 kt) |
|          | 07/30/20 18:11 EST |                   | 0                   | Source: Buoy                        |

A wind gust of 35 knots (40 MPH) was measured at a buoy near Baber Point.

| TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- POTOMAC LIGHT 33 (LT3) [38.34, -76.99] |                    |                   |                     |                                     |
|---|--------------------|-------------------|---------------------|-------------------------------------|
| Location  | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details              |
|   | 07/30/20 18:08 EST |                   | 0                   | Marine Thunderstorm Wind (MG 46 kt) |
|   | 07/30/20 18:22 EST |                   | 0                   | Source: Buoy                        |

Wind gusts of 37 to 46 knots (43 to 53 MPH) were measured by a buoy near Potomac Light.

| TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- CUCKOLD CREEK (CCK) [38.31, -76.93] |                    |                   |                     |                                     |
|--|--------------------|-------------------|---------------------|-------------------------------------|
| Location   | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details              |
|  | 07/30/20 18:12 EST |                   | 0                   | Marine Thunderstorm Wind (MG 39 kt) |
|  | 07/30/20 18:22 EST |                   | 0                   | Source: Buoy                        |

Wind gusts of 36 to 39 knots (41 to 45 MPH) were measured by a buoy near Cuckold Creek.

| TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.4 NNE BABER POINT (BAB) [38.33, -77.02] |                    |                   |                     |                                     |
|--|--------------------|-------------------|---------------------|-------------------------------------|
| Location   | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details              |
|  | 07/30/20 18:13 EST |                   | 0                   | Marine Thunderstorm Wind (MG 36 kt) |
|  | 07/30/20 18:18 EST |                   | 0                   | Source: Buoy                        |

Wind gusts of 34 to 36 knots (39 to 41 MPH) were measured at a buoy near Dahlgren (T70).

| TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 2.7 SE LEESYLVANIA STATE PARK (LSLVN) [38.64, -77.22] |                    |                   |                     |                                     |
|--|--------------------|-------------------|---------------------|-------------------------------------|
| Location   | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details              |
|  | 07/30/20 18:19 EST |                   | 0                   | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/30/20 18:19 EST |                   | 0                   | Source: Buoy                        |

A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy in Occoquan Bay.

| TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- COBB POINT (COB) [38.24, -76.83] |                    |                   |                     |                                     |
|---|--------------------|-------------------|---------------------|-------------------------------------|
| Location  | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details              |
|   | 07/30/20 18:34 EST |                   | 0                   | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/30/20 18:34 EST |                   | 0                   | Source: Buoy                        |

A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy near Cobb Island.

| TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- CUCKOLD CREEK (CCK) [38.31, -76.93] |                    |                   |                     |                                     |
|--|--------------------|-------------------|---------------------|-------------------------------------|
| Location   | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details              |
|  | 07/30/20 18:37 EST |                   | 0                   | Marine Thunderstorm Wind (EG 34 kt) |
|  | 07/30/20 18:37 EST |                   | 0                   | Source: Buoy                        |

A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy near Cuckold Creek.

| TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- (DCA)REAGAN NATIONAL AIRPORT [38.86, -77.03] |                    |                   |                     |                                     |
|--|--------------------|-------------------|---------------------|-------------------------------------|
| Location   | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details              |
|  | 07/30/20 18:45 EST |                   | 0                   | Marine Thunderstorm Wind (MG 35 kt) |
|  | 07/30/20 18:56 EST |                   | 0                   | Source: ASOS                        |

Wind gusts of 34 to 35 knots (39 to 40 MPH) were measured by the ASOS at Ronald Reagan Washington National Airport (KDCA).

| TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- COBB POINT (COB) [38.24, -76.83] |                    |                   |                     |                                     |
|---|--------------------|-------------------|---------------------|-------------------------------------|
| Location  | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details              |
|   | 07/30/20 19:09 EST |                   | 0                   | Marine Thunderstorm Wind (MG 35 kt) |
|   | 07/30/20 19:24 EST |                   | 0                   | Source: Buoy                        |

Wind gusts of 34 to 35 knots (39 to 40 MPH) were measured by a buoy near Cobb Island.

| CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- ANNAPOLIS MD (APAM2) [38.98, -76.48] |                    |                   |                     |                                     |
|---|--------------------|-------------------|---------------------|-------------------------------------|
| Location  | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details              |
|   | 07/30/20 19:18 EST |                   | 0                   | Marine Thunderstorm Wind (MG 35 kt) |
|   | 07/30/20 19:30 EST |                   | 0                   | Source: Buoy                        |

Wind gusts of 34 to 35 knots (39 to 40 MPH) were measured by a buoy near Annapolis.

| CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- GREENBURY POINT (GBY) [38.97, -76.46] |                    |                   |                     |                                     |
|--|--------------------|-------------------|---------------------|-------------------------------------|
| Location   | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details              |
|  | 07/30/20 19:18 EST |                   | 0                   | Marine Thunderstorm Wind (MG 48 kt) |
|  | 07/30/20 19:33 EST |                   | 0                   | Source: Buoy                        |



## Storm Data and Unusual Weather Phenomena - July 2020

| Location  | Date/Time          | Deaths &<br>Injuries | Property &<br>Crop Dmg | Event Type and Details              |
|---|--------------------|----------------------|------------------------|-------------------------------------|
| Wind gusts of 34 to 48 knots (39 to 55 MPH) were measured by a buoy near Greenbury Point.                               |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- TOLLY POINT (TOL) [38.94, -76.44]</b>                               |                    |                      |                        |                                     |
|   | 07/30/20 19:18 EST | 0                    |                        | Marine Thunderstorm Wind (MG 46 kt) |
|   | 07/30/20 19:33 EST | 0                    |                        | Source: Buoy                        |
| Wind gusts of 39 to 46 knots (45 to 53 MPH) were measured by a buoy near Tolly Point.                                   |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT (TPLM2) [38.90, -76.44]</b>                            |                    |                      |                        |                                     |
|   | 07/30/20 19:20 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/30/20 19:20 EST | 0                    |                        | Source: Buoy                        |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy near Thomas Point.                      |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- ANNAPOLIS (KNAK) [38.98, -76.48]</b>                                |                    |                      |                        |                                     |
|   | 07/30/20 19:22 EST | 0                    |                        | Marine Thunderstorm Wind (MG 35 kt) |
|   | 07/30/20 19:22 EST | 0                    |                        | Source: ASOS                        |
| A wind gust of 35 knots (40 MPH) was measured by the ASOS at the Annapolis Naval Academy (KNAK).                        |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- SANDY POINT (SPT) [39.01, -76.40]</b>                               |                    |                      |                        |                                     |
|   | 07/30/20 19:26 EST | 0                    |                        | Marine Thunderstorm Wind (MG 41 kt) |
|   | 07/30/20 19:36 EST | 0                    |                        | Source: Buoy                        |
| Wind gusts of 34 to 41 knots (39 to 47 MPH) were measured by a buoy near Sandy Point.                                   |                    |                      |                        |                                     |
| <b>CHOPTANK RIVER TO CAMBRIDGE MD AND THE LITTLE CHOPTANK RIVER COUNTY --- BLACKWALNUT HARBOR (BWH) [38.68, -76.33]</b> |                    |                      |                        |                                     |
|   | 07/30/20 19:29 EST | 0                    |                        | Marine Thunderstorm Wind (MG 42 kt) |
|   | 07/30/20 19:44 EST | 0                    |                        | Source: Buoy                        |
| Wind gusts of 34 to 42 knots (39 to 48 MPH) were measured by a buoy in Blackwalnut Harbor.                              |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.5 W (KW29)BAY BRIDGE AIRPORT [38.98, -76.34]</b>                  |                    |                      |                        |                                     |
|   | 07/30/20 19:30 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/30/20 19:50 EST | 0                    |                        | Source: Mesonet                     |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a mesonet near Stevensville.                   |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- ST MARYS ES (ANNAS) [38.98, -76.49]</b>                             |                    |                      |                        |                                     |
|   | 07/30/20 19:30 EST | 0                    |                        | Marine Thunderstorm Wind (MG 34 kt) |
|   | 07/30/20 19:30 EST | 0                    |                        | Source: Mesonet                     |
| A wind gust of 34 knots (39 MPH) was measured by a mesonet at Saint Mary's Elementary School.                           |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- HART MILLER ISLAND (HRT) [39.25, -76.37]</b>                      |                    |                      |                        |                                     |
|   | 07/30/20 19:50 EST | 0                    |                        | Marine Thunderstorm Wind (MG 46 kt) |
|   | 07/30/20 20:10 EST | 0                    |                        | Source: Buoy                        |
| Wind gusts of 37 to 46 knots (43 to 53 MPH) were measured by a buoy near Hart Miller Island.                            |                    |                      |                        |                                     |
| <b>PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- HAMPSTEAD HILL ACADEMY (BLMHH) [39.29, -76.58]</b>              |                    |                      |                        |                                     |
|   | 07/30/20 19:50 EST | 0                    |                        | Marine Thunderstorm Wind (MG 37 kt) |
|   | 07/30/20 19:50 EST | 0                    |                        | Source: Mesonet                     |
| A wind gust of 37 knots (43 MPH) was measured by a mesonet at Hampstead Hill Academy.                                   |                    |                      |                        |                                     |
| <b>PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- MARYLAND SCIENCE CENTER (BLMRE) [39.28, -76.61]</b>             |                    |                      |                        |                                     |
|   | 07/30/20 19:50 EST | 0                    |                        | Marine Thunderstorm Wind (MG 36 kt) |
|   | 07/30/20 19:50 EST | 0                    |                        | Source: Mesonet                     |
| A wind gust of 36 knots (41 MPH) was measured by a mesonet at the Maryland Science Center.                              |                    |                      |                        |                                     |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location  | Date/Time          | Deaths &<br>Injuries | Property &<br>Crop Dmg | Event Type and Details              |
|---|--------------------|----------------------|------------------------|-------------------------------------|
| <b>PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- ORIOLE PARK AT CAMDEN YARDS (BLTPC) [39.28, -76.62]</b>                 |                    |                      |                        |                                     |
|   | 07/30/20 19:50 EST | 0                    |                        | Marine Thunderstorm Wind (MG 35 kt) |
|   | 07/30/20 19:50 EST |                      | 0                      | Source: Mesonet                     |
| A wind gust to 35 knots (40 MPH) was measured by a mesonet at Orioles Park at Camden Yards.                                     |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- TOLCHESTER MD (TCBM2) [39.32, -76.25]</b>                                 |                    |                      |                        |                                     |
|   | 07/30/20 19:54 EST | 0                    |                        | Marine Thunderstorm Wind (MG 41 kt) |
|   | 07/30/20 20:06 EST |                      | 0                      | Source: Buoy                        |
| Wind gusts of 39 to 41 knots (45 to 47 MPH) were measured by a buoy near Tolchester Beach.                                      |                    |                      |                        |                                     |
| <b>PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- BALTIMORE (BLTM2) [39.27, -76.58]</b>                                   |                    |                      |                        |                                     |
|   | 07/30/20 19:54 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/30/20 19:54 EST |                      | 0                      | Source: Buoy                        |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy near Baltimore Harbor/the tidal Patapsco River. |                    |                      |                        |                                     |
| <b>PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- BALTIMORE KEY BRIDGE (FSKM2) [39.22, -76.53]</b>                        |                    |                      |                        |                                     |
|   | 07/30/20 19:54 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/30/20 19:54 EST |                      | 0                      | Source: Buoy                        |
| A thunderstorm produced an estimated wind gust to 34 knots (39 MPH) near a buoy near Francis Scott Key Bridge.                  |                    |                      |                        |                                     |
| <b>TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT (PPTM2) [38.13, -76.53]</b>                                   |                    |                      |                        |                                     |
|   | 07/30/20 19:54 EST | 0                    |                        | Marine Thunderstorm Wind (MG 34 kt) |
|   | 07/30/20 20:06 EST |                      | 0                      | Source: Buoy                        |
| Wind gusts of 34 knots (39 MPH) were measured by a buoy near Piney Point.   |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- GUNPOWDER (GUN) [39.36, -76.37]</b>                                       |                    |                      |                        |                                     |
|   | 07/30/20 20:03 EST | 0                    |                        | Marine Thunderstorm Wind (MG 46 kt) |
|   | 07/30/20 20:23 EST |                      | 0                      | Source: Buoy                        |
| Wind gusts of 34 to 46 knots (39 to 53 MPH) were measured by a buoy near the mouth of Gunpowder River.                          |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- GROVE POINT (GVP) [39.40, -76.04]</b>  |                    |                      |                        |                                     |
|   | 07/30/20 20:18 EST | 0                    |                        | Marine Thunderstorm Wind (MG 39 kt) |
|   | 07/30/20 20:28 EST |                      | 0                      | Source: Buoy                        |
| Wind gusts of 34 to 39 knots (39 to 45 MPH) were measured by a buoy near Grove Point.   |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- LOWER HOOPER ISLAND (HPR) [38.26, -76.18]</b>                               |                    |                      |                        |                                     |
|   | 07/30/20 20:35 EST | 0                    |                        | Marine Thunderstorm Wind (EG 34 kt) |
|   | 07/30/20 20:35 EST |                      | 0                      | Source: Buoy                        |
| A thunderstorm produced an estimated wind gust up to 34 knots (39 MPH) near a buoy near Lower Hooper Island.                    |                    |                      |                        |                                     |
| <b>CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- 5.6 ENE NERRS WATER QUALITY SITE (LTQM2) [39.47, -76.17]</b>                     |                    |                      |                        |                                     |
|   | 07/30/20 20:36 EST | 0                    |                        | Marine Thunderstorm Wind (MG 38 kt) |
|   | 07/30/20 20:36 EST |                      | 0                      | Source: AWOS                        |
| A wind gust of 38 knots (44 MPH) was measured by the AWOS at Phillips Airfield (KAPG).  |                    |                      |                        |                                     |
| <b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- BISHOPS HEAD (BISM2) [38.22, -76.04]</b>       |                    |                      |                        |                                     |
|   | 07/30/20 20:42 EST | 0                    |                        | Marine Thunderstorm Wind (MG 34 kt) |
|   | 07/30/20 20:42 EST |                      | 0                      | Source: Buoy                        |
| A wind gust of 34 knots (39 MPH) was measured by a buoy near Bishops Head Pier.   |                    |                      |                        |                                     |

Scattered strong to severe thunderstorms moved across northern Virginia into the tidal Potomac River, then across central and southern Maryland into the Chesapeake Bay.

## Storm Data and Unusual Weather Phenomena - July 2020

| Location   | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details       |
|--|--------------------|-------------------|---------------------|------------------------------|
| <b>TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 3.1 WNW CRISFIELD CG (CRS) [37.98, -75.93]</b>  |                    |                   |                     |                              |
|  | 07/31/20 06:45 EST |                   | 0                   | Waterspout                   |
|  | 07/31/20 07:55 EST |                   | 0                   | Source: 911 Call Center      |
| Several waterspouts were reported west of Crisfield.   |                    |                   |                     |                              |
| <b>A cluster of showers and thunderstorms produced several waterspouts west of Crisfield during the morning hours of Friday, July 31st, 2020.</b>  |                    |                   |                     |                              |
| <b>DISTRICT OF COLUMBIA</b>  |                    |                   |                     |                              |
| <b>DISTRICT OF COLUMBIA COUNTY --- 0.9 NE BOLLING AFB [38.86, -77.01]</b>  |                    |                   |                     |                              |
|  | 07/06/20 17:29 EST |                   | 0                   | Thunderstorm Wind (MG 60 kt) |
|  | 07/06/20 17:29 EST |                   | 0                   | Source: Mesonet              |
| A wind gust of 60 knots (69 MPH) was measured by a mesonet near Bolling Air Force Base.  |                    |                   |                     |                              |
| <b>DISTRICT OF COLUMBIA COUNTY --- 0.7 NE BENNING [38.89, -76.94]</b>  |                    |                   |                     |                              |
|  | 07/06/20 17:50 EST |                   | 0.10M               | Thunderstorm Wind (EG 65 kt) |
|  | 07/06/20 17:50 EST |                   | 0                   | Source: 911 Call Center      |
| Numerous trees were blown down throughout Southeast DC, including in the Lincoln Heights neighborhood. Minor structural damage (i.e. siding, shingles) was reported, as well.  |                    |                   |                     |                              |
| <b>DISTRICT OF COLUMBIA COUNTY --- 1.0 SW NATIONAL ARBORETUM [38.91, -76.98]</b>   |                    |                   |                     |                              |
|  | 07/06/20 17:52 EST |                   | 10K                 | Thunderstorm Wind (EG 50 kt) |
|  | 07/06/20 17:52 EST |                   | 0                   | Source: Public               |
| Numerous large tree limbs were snapped in the Trinidad neighborhood of Northeast DC, with several falling on and damaging vehicles.  |                    |                   |                     |                              |
| <b>DISTRICT OF COLUMBIA COUNTY --- 1.2 WSW TENLEYTOWN [38.94, -77.09]</b>  |                    |                   |                     |                              |
|  | 07/06/20 18:00 EST |                   | 10K                 | Thunderstorm Wind (EG 50 kt) |
|  | 07/06/20 18:00 EST |                   | 0                   | Source: 911 Call Center      |
| Multiple trees were blown down in Northwest DC, including in the 4500 block of Massachusetts Avenue Northwest.   |                    |                   |                     |                              |
| <b>DISTRICT OF COLUMBIA COUNTY --- 0.5 E MOUNT PLEASANT [38.93, -77.04]</b>  |                    |                   |                     |                              |
|  | 07/06/20 18:06 EST |                   | 10K                 | Thunderstorm Wind (EG 50 kt) |
|  | 07/06/20 18:06 EST |                   | 0                   | Source: 911 Call Center      |
| Multiple trees were blown down in the 1700 block of Kilborne Avenue Northwest.   |                    |                   |                     |                              |
| <b>An upper-level disturbance triggered scattered to numerous showers and thunderstorms. The very unstable lower-level air mass resulted in an environment conducive to downburst winds, some of which were significant.</b>                                       |                    |                   |                     |                              |
| <b>(DC-Z001) DISTRICT OF COLUMBIA</b>  |                    |                   |                     |                              |
|  | 07/19/20 11:00 EST |                   | 0                   | Heat                         |
|  | 07/19/20 19:00 EST |                   | 0                   |                              |
| <b>A ridge of high pressure developed over the eastern United States and western Atlantic, allowing a southwesterly flow to bring plenty of tropical air northward. High temperatures plus high humidity resulted in heat indices in the 100-110 degree range.</b> |                    |                   |                     |                              |
| <b>(DC-Z001) DISTRICT OF COLUMBIA</b>  |                    |                   |                     |                              |
|  | 07/20/20 11:00 EST |                   | 0                   | Heat                         |
|  | 07/20/20 19:00 EST |                   | 0                   |                              |
| <b>A ridge of high pressure developed over the eastern United States and western Atlantic, allowing a southwesterly flow to bring plenty of tropical air northward. High temperatures plus high humidity resulted in heat indices in the 100-110 degree range.</b> |                    |                   |                     |                              |
| <b>DISTRICT OF COLUMBIA COUNTY --- 0.8 WSW BROOKLAND [38.93, -77.02]</b>   |                    |                   |                     |                              |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details       |
|----------|--------------------|-------------------|---------------------|------------------------------|
|          | 07/22/20 14:55 EST |                   | 0                   | Thunderstorm Wind (MG 55 kt) |
|          | 07/22/20 14:55 EST |                   | 0                   | Source: Mesonet              |

A wind gust of 55 knots (63 MPH) was measured by a mesonet at Children's Hospital.

### DISTRICT OF COLUMBIA COUNTY --- 1.2 ENE US CAPITOL [38.89, -77.00]

|                    |       |                              |
|--------------------|-------|------------------------------|
| 07/22/20 14:59 EST | 0.25M | Thunderstorm Wind (EG 60 kt) |
| 07/22/20 14:59 EST | 0     | Source: 911 Call Center      |

Hundreds of trees, large branches and wires were blown down throughout DC, including a large tree that fell on and crushed a car near the intersection of C Street Southeast and Pennsylvania Avenue Southeast.

**An upper-level trough interacted with a stalled surface front draped over the Mid-Atlantic resulting in scattered to numerous showers and thunderstorms developing in the lee of the Appalachians Mountains as early as midday. The storms coalesced into a bow echo moved eastward across central Maryland and northern Virginia (including the DC metro) during the mid afternoon. Thunderstorms exited the area by nightfall.**

### DISTRICT OF COLUMBIA COUNTY --- 1.1 NNW ANACOSTIA [38.89, -76.97]

|                    |    |                              |
|--------------------|----|------------------------------|
| 07/23/20 20:05 EST | 5K | Thunderstorm Wind (EG 50 kt) |
| 07/23/20 20:05 EST | 0  | Source: 911 Call Center      |

Several trees were blown down mainly in the eastern parts of DC, including on Chesapeake Street Southwest.

**A few severe thunderstorms developed along a weak, stalled front.**

## MARYLAND, Central

### ST. MARY'S COUNTY --- 2.2 N LEONARDTOWN [38.33, -76.64]

|                    |    |                              |
|--------------------|----|------------------------------|
| 07/01/20 12:20 EST | 2K | Thunderstorm Wind (EG 50 kt) |
| 07/01/20 12:20 EST | 0  | Source: Trained Spotter      |

Tree damage was reported in the Tintop Hill area, including large (6-inch in diameter) tree limbs that were blown down in the 41000 block of Burnt Mill Drive.

### ANNE ARUNDEL COUNTY --- 1.7 SW ELVATON [39.11, -76.61]

|                    |    |                              |
|--------------------|----|------------------------------|
| 07/01/20 14:33 EST | 2K | Thunderstorm Wind (EG 50 kt) |
| 07/01/20 14:33 EST | 0  | Source: Trained Spotter      |

Tree damage was reported in the Benfield area, including numerous large (6-inch in diameter) tree limbs that were blown down near the intersection of Governor Stone Parkway and East West Boulevard.

### ANNE ARUNDEL COUNTY --- 1.6 SSW SHERWOOD FOREST [39.01, -76.54]

|                    |   |                |
|--------------------|---|----------------|
| 07/01/20 14:50 EST | 0 | Hail (1.00 in) |
| 07/01/20 14:50 EST | 0 | Source: Public |

Quarter size hail was reported near Cape Arthur.

### ANNE ARUNDEL COUNTY --- 0.7 SSE ARNOLD [39.02, -76.50]

|                    |   |                           |
|--------------------|---|---------------------------|
| 07/01/20 14:56 EST | 0 | Hail (1.00 in)            |
| 07/01/20 14:56 EST | 0 | Source: Emergency Manager |

Quarter size hail was reported near Severna Park, including near the intersection of Governor Ritchie Highway and Chautaugua Road.

### ANNE ARUNDEL COUNTY --- 1.5 NNE BESTGATE [39.00, -76.54]

|                    |   |                         |
|--------------------|---|-------------------------|
| 07/01/20 15:04 EST | 0 | Hail (1.25 in)          |
| 07/01/20 15:04 EST | 0 | Source: Broadcast Media |

Quarter to half dollar size hail was reported near Parole and Annapolis, including in the 500 block of Samuel Church Road.

### ANNE ARUNDEL COUNTY --- 0.5 W PAROLE [38.98, -76.54]

|                    |   |                      |
|--------------------|---|----------------------|
| 07/01/20 15:10 EST | 0 | Hail (1.50 in)       |
| 07/01/20 15:10 EST | 0 | Source: NWS Employee |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location   | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|-----------|-------------------|---------------------|------------------------|
| Quarter to ping pong ball size hail was reported near Paroles and Annapolis, including near the intersection of Forest Drive and MD-2 Solomons Island Road, and near the intersection of Admiral Cochrane Drive and MD-2 Solomons Island Road. |           |                   |                     |                        |

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### ANNE ARUNDEL COUNTY --- 0.1 N RIVA [38.95, -76.58]

|                    |   |                |
|--------------------|---|----------------|
| 07/01/20 15:27 EST | 0 | Hail (1.75 in) |
| 07/01/20 15:27 EST | 0 | Source: Public |

Golf ball size hail was reported near Riva, including near the intersection of Riva Road and Forest Road.

**A few intense thunderstorms developed during the afternoon hours of Wednesday, July 1st, 2020, mainly east of I-95 in central Maryland. The thunderstorms were notable mainly for the hail they produced relatively late in the season.**

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### PRINCE GEORGE'S COUNTY --- 0.3 ESE HALL [38.90, -76.72]

|                    |    |                                |
|--------------------|----|--------------------------------|
| 07/04/20 14:52 EST | 1K | Thunderstorm Wind (EG 50 kt)   |
| 07/04/20 14:52 EST | 0  | Source: Department of Highways |

Tree damage was reported near Bowie, including a tree down on eastbound MD-214 Central Avenue at US-301 Crain Highway.

**An isolated severe thunderstorm developed over central Maryland on the afternoon of Saturday, July 4th, 2020, causing some wind damage.**

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### HARFORD COUNTY --- 0.8 WSW ABINGDON [39.46, -76.28]

|                    |    |                              |
|--------------------|----|------------------------------|
| 07/05/20 13:57 EST | 5K | Thunderstorm Wind (EG 50 kt) |
| 07/05/20 13:57 EST | 0  | Source: 911 Call Center      |

A tree was blown down near the intersection of US-40 Pulaski Highway and the Otter Creek Ramp. A tree was blown down onto a vehicle at the intersection of Abingdon Road and Feral Lane.

---

### HARFORD COUNTY --- 1.1 SSE ABINGDON [39.45, -76.27]

|                    |   |                         |
|--------------------|---|-------------------------|
| 07/05/20 13:57 EST | 0 | Hail (1.25 in)          |
| 07/05/20 13:57 EST | 0 | Source: Trained Spotter |

Half dollar size hail was reported near Abingdon.

---

### HARFORD COUNTY --- 0.1 NE EDGEWOOD [39.42, -76.30]

|                    |   |                |
|--------------------|---|----------------|
| 07/05/20 14:27 EST | 0 | Hail (1.50 in) |
| 07/05/20 14:27 EST | 0 | Source: Public |

Ping pong ball size hail was reported in Edgewood.

---

### BALTIMORE COUNTY --- 1.4 SSW BOWLEYS QUARTERS [39.31, -76.38]

|                    |   |                |
|--------------------|---|----------------|
| 07/05/20 14:28 EST | 0 | Hail (1.25 in) |
| 07/05/20 14:28 EST | 0 | Source: Public |

Quarter to half dollar size hail was reported near Bowleys Quarters.

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### BALTIMORE CITY (C) COUNTY --- 0.9 S CANTON [39.27, -76.58]

|                    |    |                              |
|--------------------|----|------------------------------|
| 07/05/20 15:30 EST | 5K | Thunderstorm Wind (MG 50 kt) |
| 07/05/20 15:30 EST | 0  | Source: Buoy                 |

A wind gust of 50 knots (58 MPH) was measured at the shore of Baltimore Harbor (near Fells Point).

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### ANNE ARUNDEL COUNTY --- 0.8 N LAKE SHR [39.11, -76.48]

|                    |       |                                |
|--------------------|-------|--------------------------------|
| 07/05/20 16:12 EST | 0.10M | Thunderstorm Wind (EG 60 kt)   |
| 07/05/20 16:12 EST | 19    | Source: Fire Department/Rescue |

Numerous trees were blown down in Lake Ridge, including one large tree which fell on a detached garage causing it to collapse injuring 19 people (1 critically).

**An upper-level disturbance interacting with a stalled surface front draped over Maryland produced widely scattered severe thunderstorms during the afternoon of Sunday, July 5th, 2020.**

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### PRINCE GEORGE'S COUNTY --- 0.6 SSW GREENBELT [38.99, -76.89]

## Storm Data and Unusual Weather Phenomena - July 2020

| Location  | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details         |
|---|--------------------|-------------------|---------------------|--------------------------------|
|   | 07/06/20 17:07 EST |                   | 5K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/06/20 17:07 EST |                   | 0                   | Source: Department of Highways |
| A tree was blown down near the I-95/I-495 Capital Beltway Interchange. A second tree was blown down on I-95/I-495 Capital Beltway near MD-295 Baltimore-Washington Parkway. A third tree was blown down onto MD-295 Baltimore-Washington Parkway near Powder Mill Road. |                    |                   |                     |                                |
| <b>ANNE ARUNDEL COUNTY --- 1.5 SSW BENFIELD [39.06, -76.63]</b>   |                    |                   |                     |                                |
|   | 07/06/20 17:15 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/06/20 17:15 EST |                   | 0                   | Source: Department of Highways |
| A tree was blown down near the intersection of northbound MD-178 Generals Highway and Indian Landing Road.  |                    |                   |                     |                                |
| <b>BALTIMORE COUNTY --- 1.0 SSW CHASE [39.34, -76.39]</b>   |                    |                   |                     |                                |
|   | 07/06/20 17:27 EST |                   | 2K                  | Thunderstorm Wind (EG 55 kt)   |
|   | 07/06/20 17:27 EST |                   | 0                   | Source: Trained Spotter        |
| A two foot in diameter tree was blown down near the intersection of MD-150 Eastern Boulevard and Carroll Island Road.   |                    |                   |                     |                                |
| <b>BALTIMORE COUNTY --- 0.5 E BALTIMORE MARTIN ST [39.33, -76.41]</b>   |                    |                   |                     |                                |
|   | 07/06/20 17:31 EST |                   | 50K                 | Thunderstorm Wind (EG 65 kt)   |
|   | 07/06/20 17:31 EST |                   | 0                   | Source: Broadcast Media        |
| Parts of the roof on the helicopter hangar at Martin State Regional Airport were damaged.   |                    |                   |                     |                                |
| <b>BALTIMORE COUNTY --- 0.5 N BALTIMORE MARTIN ST [39.34, -76.42]</b>   |                    |                   |                     |                                |
|   | 07/06/20 17:35 EST |                   | 0                   | Hail (1.00 in)                 |
|   | 07/06/20 17:35 EST |                   | 0                   | Source: Trained Spotter        |
| Quarter size hail was reported near the intersection of MD-43 White Marsh Boulevard and MD-150 Eastern Boulevard.   |                    |                   |                     |                                |
| <b>ANNE ARUNDEL COUNTY --- 1.4 NNW GREEN HAVEN [39.15, -76.56]</b>  |                    |                   |                     |                                |
|   | 07/06/20 17:38 EST |                   | 0                   | Thunderstorm Wind (MG 50 kt)   |
|   | 07/06/20 17:38 EST |                   | 0                   | Source: Trained Spotter        |
| A trained spotter reported a measured wind gust of 50 knots (58 MPH) near Green Haven.  |                    |                   |                     |                                |
| <b>MONTGOMERY COUNTY --- 1.7 S ROCKVILLE [39.06, -77.16]</b>  |                    |                   |                     |                                |
|   | 07/06/20 17:38 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/06/20 17:38 EST |                   | 0                   | Source: Department of Highways |
| A tree was blown down in the southbound lane of I-270 Washington National Pike at Montrose Road.  |                    |                   |                     |                                |
| <b>ANNE ARUNDEL COUNTY --- 0.7 SSE BESTGATE [38.97, -76.54]</b>   |                    |                   |                     |                                |
|   | 07/06/20 17:40 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/06/20 17:40 EST |                   | 0                   | Source: Department of Highways |
| A tree was blown down on northbound MD-2 Solomons Island Road at MD-665 Aris T. Allen Boulevard.  |                    |                   |                     |                                |
| <b>BALTIMORE COUNTY --- 0.2 SSE (MTN)MARTIN ARPT BAL [39.32, -76.42]</b>  |                    |                   |                     |                                |
|   | 07/06/20 17:40 EST |                   | 20K                 | Thunderstorm Wind (EG 60 kt)   |
|   | 07/06/20 17:40 EST |                   | 0                   | Source: 911 Call Center        |
| Numerous trees and wires were blown down in the 1300 to 1700 block of Wilson Point Road.  |                    |                   |                     |                                |
| <b>ANNE ARUNDEL COUNTY --- 1.0 WNW BRIDEWELL [39.16, -76.72]</b>  |                    |                   |                     |                                |
|   | 07/06/20 17:43 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/06/20 17:43 EST |                   | 0                   | Source: Department of Highways |
| A tree was blown down near the intersection of MD-176 Dorsey Road and New Ridge Road.   |                    |                   |                     |                                |
| <b>PRINCE GEORGE'S COUNTY --- 2.0 NE MTCHVLL FREEWAY ARPT [38.95, -76.74]</b>   |                    |                   |                     |                                |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details         |
|----------|--------------------|-------------------|---------------------|--------------------------------|
|          | 07/06/20 17:43 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt)   |
|          | 07/06/20 17:43 EST |                   | 0                   | Source: Department of Highways |

Trees were blown down in the area of MD-197 Collington Road and US-50 John Hanson Highway.

### PRINCE GEORGE'S COUNTY --- 0.7 NNE COLEBROOKE [38.84, -76.95]

|  |                    |  |     |                                |
|--|--------------------|--|-----|--------------------------------|
|  | 07/06/20 17:50 EST |  | 10K | Thunderstorm Wind (EG 60 kt)   |
|  | 07/06/20 17:50 EST |  | 0   | Source: Department of Highways |

Trees down in the area of Branch Avenue and Silver Hill Road.

### BALTIMORE COUNTY --- 0.8 WNW STEMMERS RUN [39.34, -76.48]

|  |                    |  |     |                              |
|--|--------------------|--|-----|------------------------------|
|  | 07/06/20 17:53 EST |  | 10K | Thunderstorm Wind (EG 60 kt) |
|  | 07/06/20 17:53 EST |  | 0   | Source: 911 Call Center      |

Numerous trees and wires blew down in the 8500 to 8700 block of US-40 Pulaski Highway.

### BALTIMORE COUNTY --- 0.4 NE EDGEMERE [39.23, -76.45]

|  |                    |  |     |                              |
|--|--------------------|--|-----|------------------------------|
|  | 07/06/20 18:04 EST |  | 10K | Thunderstorm Wind (EG 55 kt) |
|  | 07/06/20 18:04 EST |  | 0   | Source: 911 Call Center      |

Multiple trees down in the area of 2800 Lodge Farm Road.

### PRINCE GEORGE'S COUNTY --- 0.3 W UPPER MARLBORO [38.82, -76.76]

|  |                    |  |     |                              |
|--|--------------------|--|-----|------------------------------|
|  | 07/06/20 18:40 EST |  | 20K | Thunderstorm Wind (EG 50 kt) |
|  | 07/06/20 18:40 EST |  | 0   | Source: 911 Call Center      |

Trees were blown down in Upper Marlboro, including one onto a house.

### PRINCE GEORGE'S COUNTY --- 0.6 WSW BRANDYWINE [38.70, -76.86]

|  |                    |  |    |                                |
|--|--------------------|--|----|--------------------------------|
|  | 07/06/20 20:28 EST |  | 3K | Thunderstorm Wind (EG 50 kt)   |
|  | 07/06/20 20:28 EST |  | 0  | Source: Department of Highways |

A tree blew down near the intersection of MD-381 Brandywine Road and Kathleen Lane. A tree blew down near the intersection of MD-373 Accokeek Road and MD-5 Branch Avenue.

### ST. MARY'S COUNTY --- 0.8 SSE CHARLOTTE HALL [38.47, -76.77]

|  |                    |  |    |                                |
|--|--------------------|--|----|--------------------------------|
|  | 07/06/20 21:59 EST |  | 6K | Thunderstorm Wind (EG 50 kt)   |
|  | 07/06/20 21:59 EST |  | 0  | Source: Department of Highways |

A tree was blown down on MD-5 Point Lookout Road near MD-238 Chaptico. Trees blew down onto wires bringing down power poles at the intersection of Lockes Hill Road and Stockett Run Lane.

### ST. MARY'S COUNTY --- 0.2 NW BUDDS CREEK [38.40, -76.83]

|  |                    |  |    |                                |
|--|--------------------|--|----|--------------------------------|
|  | 07/06/20 22:20 EST |  | 1K | Thunderstorm Wind (EG 50 kt)   |
|  | 07/06/20 22:20 EST |  | 0  | Source: Department of Highways |

A tree was blown down near the intersection of MD-234 Budds Creek Road and MD-236 Thompson Corner Road.

**An upper-level disturbance triggered scattered to numerous showers and thunderstorms. The very unstable lower-level air mass resulted in an environment conducive to downburst winds, some of which were significant.**

### BALTIMORE COUNTY --- 0.1 SSW WHITE MARSH [39.38, -76.43], 0.2 SSE WHITE MARSH [39.38, -76.43], 0.4 ENE WHITE MARSH [39.38, -76.42], 0.4 NE WHITE MARSH [39.38, -76.42]

|  |                    |  |   |                                 |
|--|--------------------|--|---|---------------------------------|
|  | 07/06/20 22:00 EST |  | 0 | Flash Flood (due to Heavy Rain) |
|  | 07/07/20 00:14 EST |  | 0 | Source: State Official          |

A few lanes of Interstate 95 were shut down around White Marsh Boulevard.

### BALTIMORE COUNTY --- 0.9 WNW STEMMERS RUN [39.34, -76.48], 0.8 WNW STEMMERS RUN [39.33, -76.48], 0.7 NW STEMMERS RUN [39.34, -76.48], 0.8 NW STEMMERS RUN [39.34, -76.48]

|  |                    |  |   |                                 |
|--|--------------------|--|---|---------------------------------|
|  | 07/06/20 22:00 EST |  | 0 | Flash Flood (due to Heavy Rain) |
|  | 07/07/20 00:14 EST |  | 0 | Source: State Official          |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location   | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details          |
|--|--------------------|-------------------|---------------------|---------------------------------|
| Pulaski Highway was closed around Rossville Boulevard.   |                    |                   |                     |                                 |
| <b>CHARLES COUNTY --- HUGHESVILLE [38.53, -76.78], 0.4 ENE HUGHESVILLE [38.53, -76.77], 0.5 NNE HUGHESVILLE [38.54, -76.78], 0.4 NNW HUGHESVILLE [38.54, -76.78]</b>                           |                    |                   |                     |                                 |
|  | 07/06/20 22:19 EST |                   | 0                   | Flood (due to Heavy Rain)       |
|  | 07/07/20 01:45 EST |                   | 0                   | Source: Department of Highways  |
| Road closed near MD Route 231 and MD Route 5 due to high water.  |                    |                   |                     |                                 |
| <b>PRINCE GEORGE'S COUNTY --- 1.3 ENE RITCHIE [38.88, -76.83], 1.3 ENE RITCHIE [38.88, -76.83], 1.4 ENE RITCHIE [38.88, -76.83], 1.4 ENE RITCHIE [38.88, -76.83]</b>                           |                    |                   |                     |                                 |
|  | 07/06/20 22:39 EST |                   | 0                   | Flash Flood (due to Heavy Rain) |
|  | 07/06/20 23:01 EST |                   | 0                   | Source: River/Stream Gage       |
| The water level rose above flood stage of 11 feet along the southwestern Branch of the Patuxent River at Turman Drive. The water level crested at 11.14 feet at 22:45 EST on July 6th.         |                    |                   |                     |                                 |
| <b>CHARLES COUNTY --- 0.8 NNE MASONS [38.58, -76.80], 0.9 NNE MASONS [38.58, -76.79], 1.0 NNE MASONS [38.58, -76.79], 1.0 NNE MASONS [38.58, -76.80]</b>                                       |                    |                   |                     |                                 |
|  | 07/06/20 23:30 EST |                   | 10K                 | Flash Flood (due to Heavy Rain) |
|  | 07/07/20 01:30 EST |                   | 0                   | Source: Fire Department/Rescue  |
| Water rescue of a vehicle in water along Gallant Green Road, just north of Hughesville.  |                    |                   |                     |                                 |
| <b>PRINCE GEORGE'S COUNTY --- 1.9 N BROWN [38.88, -76.80], 1.7 N BROWN [38.87, -76.81], 1.7 N BROWN [38.87, -76.80], 1.9 N BROWN [38.88, -76.80]</b>   |                    |                   |                     |                                 |
|  | 07/06/20 23:47 EST |                   | 0                   | Flood (due to Heavy Rain)       |
|  | 07/07/20 01:47 EST |                   | 0                   | Source: Department of Highways  |
| High water at the intersection of Largo Road and White House Road.   |                    |                   |                     |                                 |
| <b>CHARLES COUNTY --- 2.1 NNW LOVES [38.56, -76.74], 2.0 NNE PATUXENT [38.56, -76.74], 1.9 NNW LOVES [38.56, -76.74], 2.0 N LOVES [38.56, -76.74]</b>  |                    |                   |                     |                                 |
|  | 07/06/20 23:52 EST |                   | 0                   | Flood (due to Heavy Rain)       |
|  | 07/07/20 01:52 EST |                   | 0                   | Source: Department of Highways  |
| MD Route 381 past Carriage Crossing Lane closed due to high water.   |                    |                   |                     |                                 |
| <b>ST. MARY'S COUNTY --- 1.6 W LEONARDTOWN [38.30, -76.66], 1.7 W LEONARDTOWN [38.30, -76.66], 1.6 W LEONARDTOWN [38.30, -76.66], 1.6 W LEONARDTOWN [38.30, -76.66]</b>                        |                    |                   |                     |                                 |
|  | 07/07/20 00:05 EST |                   | 0                   | Flood (due to Heavy Rain)       |
|  | 07/07/20 02:05 EST |                   | 0                   | Source: Department of Highways  |
| MD Route 243 at Point Lookout Road closed due to high water.   |                    |                   |                     |                                 |
| <b>CHARLES COUNTY --- 0.9 S WALDORF [38.62, -76.92], 1.0 N ST CHARLES [38.61, -76.92], 1.0 N ST CHARLES [38.61, -76.92], 1.0 S WALDORF [38.62, -76.92]</b>                                     |                    |                   |                     |                                 |
|  | 07/07/20 00:43 EST |                   | 0                   | Flood (due to Heavy Rain)       |
|  | 07/07/20 02:43 EST |                   | 0                   | Source: Department of Highways  |
| MD Route 925 closed due to high water near Terrace Drive.  |                    |                   |                     |                                 |
| <b>ST. MARY'S COUNTY --- 0.7 SSE CHARLOTTE HALL [38.47, -76.78], 0.8 SSE CHARLOTTE HALL [38.47, -76.78], 0.8 SSE CHARLOTTE HALL [38.47, -76.77], 0.7 SSE CHARLOTTE HALL [38.47, -76.77]</b>    |                    |                   |                     |                                 |
|  | 07/07/20 01:02 EST |                   | 50K                 | Flash Flood (due to Heavy Rain) |
|  | 07/07/20 03:00 EST |                   | 0                   | Source: Law Enforcement         |
| Several vehicles became disabled in floodwaters near Thompson Corner Road and New Market Village Road.   |                    |                   |                     |                                 |
| <b>PRINCE GEORGE'S COUNTY --- 0.5 SSW UPPER MARLBORO [38.81, -76.75], 0.3 ESE UPPER MARLBORO [38.82, -76.74], 0.3 E UPPER MARLBORO [38.82, -76.75], 0.4 SSW UPPER MARLBORO [38.81, -76.75]</b> |                    |                   |                     |                                 |
|  | 07/07/20 01:40 EST |                   | 0                   | Flash Flood (due to Heavy Rain) |
|  | 07/07/20 22:45 EST |                   | 0                   | Source: River/Stream Gage       |



## Storm Data and Unusual Weather Phenomena - July 2020

| Location  | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|---|-----------|-------------------|---------------------|------------------------|
| The water level rose above flood stage of 11 feet along the western branch of the Patuxent River at Upper Marlboro. The water level crested at 15.07 feet at 8:15 AM EST on July 7th. Water covered all of the pedestrian bridge paralleling Water Street and it covered Water Street from the Maryland Route 4 exit ramps to Judges Street. Water also covered Race Track Road between the Marlboro Pike and the Community Center. |           |                   |                     |                        |

The water remained above flood stage until 10:45 PM EST July 7th.

**ST. MARY'S COUNTY --- 0.9 SSE CHARLOTTE HALL [38.47, -76.77], 0.9 SSE CHARLOTTE HALL [38.47, -76.77], 0.7 SSE CHARLOTTE HALL [38.47, -76.77], 0.7 SE CHARLOTTE HALL [38.47, -76.77]**

|                    |   |                                |
|--------------------|---|--------------------------------|
| 07/07/20 02:22 EST | 0 | Flood (due to Heavy Rain)      |
| 07/07/20 04:22 EST | 0 | Source: Department of Highways |

MD Route 5 at MD Route 236 closed due to high water.

**ST. MARY'S COUNTY --- 0.7 N MILESTOWN [38.29, -76.77], 1.2 E BUSHWOOD [38.30, -76.76], 1.2 ESE BUSHWOOD [38.30, -76.76], 0.6 N MILESTOWN [38.29, -76.77]**

|                    |   |                                |
|--------------------|---|--------------------------------|
| 07/07/20 02:56 EST | 0 | Flood (due to Heavy Rain)      |
| 07/07/20 04:15 EST | 0 | Source: Department of Highways |

MD Route 238 closed near MD Route 242 due to high water.

**ST. MARY'S COUNTY --- 0.3 W CHAPTICO [38.37, -76.79], 0.3 S CHAPTICO [38.37, -76.78], 0.3 SSE CHAPTICO [38.37, -76.78], 0.3 WNW CHAPTICO [38.37, -76.78]**

|                    |   |                           |
|--------------------|---|---------------------------|
| 07/07/20 05:00 EST | 0 | Flood (due to Heavy Rain) |
| 07/07/20 06:00 EST | 0 | Source: State Official    |

Budds Creek Road closed due to high water near Maddox Road.

**ST. MARY'S COUNTY --- 0.7 WNW LEONARDTOWN [38.31, -76.64], 0.7 NW LEONARDTOWN [38.31, -76.64], 0.7 NW LEONARDTOWN [38.31, -76.64], 0.7 NW LEONARDTOWN [38.31, -76.64]**

|                    |   |                           |
|--------------------|---|---------------------------|
| 07/07/20 10:00 EST | 0 | Flood (due to Heavy Rain) |
| 07/07/20 12:00 EST | 0 | Source: State Official    |

Moakley Road closed due to high water.

**PRINCE GEORGE'S COUNTY --- 0.4 WSW BRANDYWINE [38.70, -76.86], 0.3 WSW BRANDYWINE [38.70, -76.85], 0.3 SW BRANDYWINE [38.70, -76.85], 0.4 SW BRANDYWINE [38.70, -76.86]**

|                    |   |                           |
|--------------------|---|---------------------------|
| 07/07/20 11:40 EST | 0 | Flood (due to Heavy Rain) |
| 07/07/20 13:40 EST | 0 | Source: State Official    |

Brandywine Road closed due to flooding.

**BALTIMORE COUNTY --- 0.1 NE (MTN)MARTIN ARPT BAL [39.32, -76.42], 0.1 ESE (MTN)MARTIN ARPT BAL [39.32, -76.42], 0.0 ESE (MTN)MARTIN ARPT BAL [39.32, -76.42], 0.1 NNE (MTN)MARTIN ARPT BAL [39.32, -76.42]**

|                    |   |                           |
|--------------------|---|---------------------------|
| 07/07/20 18:03 EST | 0 | Flood (due to Heavy Rain) |
| 07/07/20 18:25 EST | 0 | Source: River/Stream Gage |

The water rose above flood stage of 10.8 feet along the Middle River and it crested at 11.38 feet at 6:12 PM EST. Wilson Point was flooded with at least six inches of water over a portion of the road.

**MONTGOMERY COUNTY --- 0.9 ESE CAPITOL VIEW PARK [39.02, -77.03], 1.0 ESE CAPITOL VIEW PARK [39.01, -77.03], 1.2 ESE CAPITOL VIEW PARK [39.01, -77.03], 1.1 ESE CAPITOL VIEW PARK [39.02, -77.03]**

|                    |   |                           |
|--------------------|---|---------------------------|
| 07/07/20 18:37 EST | 0 | Flood (due to Heavy Rain) |
| 07/07/20 20:37 EST | 0 | Source: Broadcast Media   |

Interstate 495 (Capital Beltway) Inner Loop partially blocked by flooding prior to US Route 29 (Colesville Road).

**MONTGOMERY COUNTY --- LUXMANOR [39.05, -77.12], 0.2 SE LUXMANOR [39.05, -77.12], 0.2 SSE LUXMANOR [39.05, -77.12], 0.2 SSW LUXMANOR [39.05, -77.12]**

|                    |   |                           |
|--------------------|---|---------------------------|
| 07/07/20 18:37 EST | 0 | Flood (due to Heavy Rain) |
| 07/07/20 20:37 EST | 0 | Source: Broadcast Media   |

MD Route 187 (Old Georgetown Road) closed in both directions due to flooding at Executive Boulevard.

## Storm Data and Unusual Weather Phenomena - July 2020

| Location   | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details       |
|--|--------------------|-------------------|---------------------|------------------------------|
| <b>MONTGOMERY COUNTY --- 1.5 NNW TAKOMA PARK [38.99, -77.01], 1.5 NNW TAKOMA PARK [38.99, -77.01], 1.5 NNW TAKOMA PARK [38.99, -77.01], 1.5 NNW TAKOMA PARK [38.99, -77.01]</b>  |                    |                   |                     |                              |
|  | 07/07/20 18:47 EST |                   | 0                   | Flood (due to Heavy Rain)    |
|  | 07/07/20 19:12 EST |                   | 0                   | Source: River/Stream Gage    |
| The water rose above flood stage of 5.5 feet at Sligo Creek and it crested at 5.82 feet at 7:05 PM EST.  |                    |                   |                     |                              |
| A southerly flow ushered in moisture from the Gulf of Mexico and Atlantic Ocean, while a trough of low pressure remained over the region. Showers and thunderstorms developed, and with a weak flow aloft this caused locally heavy amounts of rain to fall in some locations.   |                    |                   |                     |                              |
| <b>ALLEGANY COUNTY --- 1.3 WNW OLDTOWN [39.56, -78.64]</b>   |                    |                   |                     |                              |
|  | 07/16/20 16:05 EST |                   | 0                   | Hail (1.50 in)               |
|  | 07/16/20 16:05 EST |                   | 0                   | Source: Trained Spotter      |
| Ping pong ball size hail was reported near Old Town.   |                    |                   |                     |                              |
| A couple isolated severe thunderstorms developed over eastern West Virginia and western Maryland.  |                    |                   |                     |                              |
| <b>(MD-Z016) CHARLES, (MD-Z017) ST. MARY'S</b>   |                    |                   |                     |                              |
|  | 07/17/20 12:00 EST |                   | 0                   | Heat                         |
|  | 07/17/20 19:00 EST |                   | 0                   |                              |
| A ridge of high pressure developed over the eastern United States and western Atlantic, allowing a southwesterly flow to bring plenty of tropical air northward. High temperatures plus high humidity resulted in heat indices in the 100-110 degree range.  |                    |                   |                     |                              |
| <b>(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z006) NORTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT, (MD-Z502) CENTRAL AND EASTERN ALLEGANY, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD</b> |                    |                   |                     |                              |
|  | 07/19/20 11:00 EST |                   | 0                   | Heat                         |
|  | 07/19/20 19:00 EST |                   | 0                   |                              |
| A ridge of high pressure developed over the eastern United States and western Atlantic, allowing a southwesterly flow to bring plenty of tropical air northward. High temperatures plus high humidity resulted in heat indices in the 100-110 degree range.  |                    |                   |                     |                              |
| <b>(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z006) NORTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z016) CHARLES, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD, (MD-Z507) NORTHWEST HARFORD, (MD-Z508) SOUTHEAST HARFORD</b>                        |                    |                   |                     |                              |
|  | 07/20/20 11:00 EST |                   | 0                   | Heat                         |
|  | 07/20/20 19:00 EST |                   | 0                   |                              |
| <b>(MD-Z017) ST. MARY'S, (MD-Z018) CALVERT</b>   |                    |                   |                     |                              |
|  | 07/20/20 11:00 EST |                   | 0                   | Excessive Heat               |
|  | 07/20/20 19:00 EST |                   | 0                   |                              |
| A ridge of high pressure developed over the eastern United States and western Atlantic, allowing a southwesterly flow to bring plenty of tropical air northward. High temperatures plus high humidity resulted in heat indices in the 100-115 degree range.  |                    |                   |                     |                              |
| <b>PRINCE GEORGE'S COUNTY --- 0.7 S FT FOOTE VLG [38.76, -77.00]</b>   |                    |                   |                     |                              |
|  | 07/20/20 17:30 EST |                   | 20K                 | Thunderstorm Wind (EG 60 kt) |
|  | 07/20/20 17:30 EST |                   | 0                   | Source: 911 Call Center      |
| Numerous trees and power lines were blown down near Friendly, particularly in the vicinity of Livingston Road. Some power poles were snapped by falling trees and large snapped branches.  |                    |                   |                     |                              |
| Isolated severe thunderstorms developed near and southwest of the DC metro during the late afternoon and early evening hours of Monday, July 20th, 2020.   |                    |                   |                     |                              |
| <b>(MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT</b>  |                    |                   |                     |                              |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location   | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details         |
|--|--------------------|-------------------|---------------------|--------------------------------|
|  | 07/21/20 11:00 EST |                   | 0                   | Heat                           |
|  | 07/21/20 19:00 EST |                   | 0                   |                                |
| <b>A ridge of high pressure developed over the eastern United States and western Atlantic, allowing a southwesterly flow to bring plenty of tropical air northward. High temperatures plus high humidity resulted in heat indices in the 100-110 degree range.</b> |                    |                   |                     |                                |
| <b>CHARLES COUNTY --- 1.9 WSW POMFRET [38.57, -77.06]</b>  |                    |                   |                     |                                |
|  | 07/21/20 18:30 EST |                   | 0.15M               | Thunderstorm Wind (EG 70 kt)   |
|  | 07/21/20 18:30 EST |                   | 0                   | Source: Emergency Manager      |
| Hundreds of trees were blown down (some snapped) in the 7000 block of Bumpy Oak Road and along MD-227 Pomfret Road.  |                    |                   |                     |                                |
| <b>CHARLES COUNTY --- 3.0 W GRAYTON [38.41, -77.26]</b>  |                    |                   |                     |                                |
|  | 07/21/20 18:35 EST |                   | 5K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/21/20 18:35 EST |                   | 0                   | Source: Department of Highways |
| Trees were blown down on MD-224 Riverside Road at Smith Point Road.  |                    |                   |                     |                                |
| <b>CHARLES COUNTY --- 0.3 S LA PLATA [38.53, -76.98]</b>   |                    |                   |                     |                                |
|  | 07/21/20 18:55 EST |                   | 0                   | Hail (1.00 in)                 |
|  | 07/21/20 18:55 EST |                   | 0                   | Source: Public                 |
| Quarter size hail was reported in La Plata.  |                    |                   |                     |                                |
| <b>ANNE ARUNDEL COUNTY --- 1.0 W FT MEADE JCT [39.12, -76.80]</b>  |                    |                   |                     |                                |
|  | 07/21/20 19:06 EST |                   | 3K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/21/20 19:06 EST |                   | 0                   | Source: Department of Highways |
| Trees were blown down on MD-732 Dorsey Run Road near Brock Bridge Road.  |                    |                   |                     |                                |
| <b>ST. MARY'S COUNTY --- 0.7 WNW HERMANVILLE [38.25, -76.43]</b>   |                    |                   |                     |                                |
|  | 07/21/20 20:40 EST |                   | 10K                 | Thunderstorm Wind (EG 55 kt)   |
|  | 07/21/20 20:40 EST |                   | 0                   | Source: Emergency Manager      |
| Numerous trees were blown down in the 21000 block of Bristol Avenue.   |                    |                   |                     |                                |
| <b>Scattered strong to severe thunderstorms developed along a stalled front draped across the Middle Atlantic, peaking during the early evening hours.</b>   |                    |                   |                     |                                |
| <b>(MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT</b>  |                    |                   |                     |                                |
|  | 07/22/20 11:00 EST |                   | 0                   | Heat                           |
|  | 07/22/20 19:00 EST |                   | 0                   |                                |
| <b>A ridge of high pressure developed over the eastern United States and western Atlantic, allowing a southwesterly flow to bring plenty of tropical air northward. High temperatures plus high humidity resulted in heat indices in the 100-110 degree range.</b> |                    |                   |                     |                                |
| <b>MONTGOMERY COUNTY --- 0.4 WNW DARNESTOWN [39.10, -77.31]</b>  |                    |                   |                     |                                |
|  | 07/22/20 14:20 EST |                   | 20K                 | Thunderstorm Wind (EG 65 kt)   |
|  | 07/22/20 14:20 EST |                   | 0                   | Source: Emergency Manager      |
| Numerous trees were blown down near Dawsonville, including along Spring Meadows Drive. Some (softwood) trees were snapped.   |                    |                   |                     |                                |
| <b>MONTGOMERY COUNTY --- 0.6 NNE GAITHERSBURG [39.14, -77.19]</b>  |                    |                   |                     |                                |
|  | 07/22/20 14:30 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/22/20 14:30 EST |                   | 0                   | Source: Department of Highways |
| A tree was blown down on MD-355 South Frederick Avenue near South Summit Avenue.   |                    |                   |                     |                                |
| <b>MONTGOMERY COUNTY --- 0.5 WNW CABIN JOHN [38.97, -77.18]</b>  |                    |                   |                     |                                |
|  | 07/22/20 14:45 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/22/20 14:45 EST |                   | 0                   | Source: Department of Highways |
| Trees were blown down on I-495 Capital Beltway Outer Loop near Clara Barton Parkway.   |                    |                   |                     |                                |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location  | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details         |
|---|--------------------|-------------------|---------------------|--------------------------------|
| <b>MONTGOMERY COUNTY --- 1.4 NW WOODHAVEN [39.01, -77.15]</b>   |                    |                   |                     |                                |
|   | 07/22/20 14:50 EST |                   | 0.10M               | Thunderstorm Wind (EG 60 kt)   |
|   | 07/22/20 14:50 EST |                   | 0                   | Source: Emergency Manager      |
| <p>Numerous trees were blown down in Kensington, Bethesda and Chevy Chase, including near the I-495 Capital Beltway/I-270 Eastern Spur split, on I-270 Eastern Spur near Democracy Boulevard, on I-495 Capital Beltway and MD-187 Old Georgetown Road, and large trees and poles down on Oldfield Drive. Trees were also blown down on eastbound MD-191 Bradley Boulevard prior to Arlington Road, and a tree was also blown down on Beach Drive near Franklin Street blocking the roadway.</p> |                    |                   |                     |                                |
| <b>CHARLES COUNTY --- 0.3 SW MASON SPGS [38.58, -77.12]</b>   |                    |                   |                     |                                |
|   | 07/22/20 14:56 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 14:56 EST |                   | 0                   | Source: Department of Highways |
| <p>Trees were blown down on MD-425 Mason Springs Road between Araby Place and Gilwell Place.</p>  |                    |                   |                     |                                |
| <b>CHARLES COUNTY --- 0.9 WNW POMFRET [38.59, -77.05]</b>   |                    |                   |                     |                                |
|   | 07/22/20 14:59 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 14:59 EST |                   | 0                   | Source: Department of Highways |
| <p>A tree was blown down on MD-227 Pomfret Road near Brierwood Road.</p>  |                    |                   |                     |                                |
| <b>HARFORD COUNTY --- 1.5 NNW PYLESVILLE [39.72, -76.38]</b>  |                    |                   |                     |                                |
|   | 07/22/20 15:03 EST |                   | 5K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 15:03 EST |                   | 0                   | Source: 911 Call Center        |
| <p>Several trees and wires blew down across the roadway near Whiteford.</p>   |                    |                   |                     |                                |
| <b>HOWARD COUNTY --- 0.5 W KNOLLWOOD [39.27, -77.04]</b>  |                    |                   |                     |                                |
|   | 07/22/20 15:03 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 15:03 EST |                   | 0                   | Source: Department of Highways |
| <p>A tree was blown down on MD-97 Roxbury Mills Road near Cattail Creek Drive/Sycamore Valley Run.</p>  |                    |                   |                     |                                |
| <b>MONTGOMERY COUNTY --- 1.5 ESE GEORGETOWN JCT [38.99, -77.02]</b>   |                    |                   |                     |                                |
|   | 07/22/20 15:03 EST |                   | 3K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 15:03 EST |                   | 0                   | Source: Emergency Manager      |
| <p>Trees and wires were blown down on Fenton Street near Easley Street. A tree was blown down in the 900 block of Gist Street.</p>  |                    |                   |                     |                                |
| <b>CHARLES COUNTY --- 1.2 SW PISGAH [38.52, -77.15]</b>   |                    |                   |                     |                                |
|   | 07/22/20 15:05 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 15:05 EST |                   | 0                   | Source: 911 Call Center        |
| <p>A tree was blown down at the intersection of Mason Springs Road and Montaine Place.</p>  |                    |                   |                     |                                |
| <b>HARFORD COUNTY --- 3.5 NNW ROCKS [39.68, -76.45]</b>   |                    |                   |                     |                                |
|   | 07/22/20 15:07 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 15:07 EST |                   | 0                   | Source: 911 Call Center        |
| <p>A 30-foot tree was blown down across the roadway near Chrome Hill.</p>   |                    |                   |                     |                                |
| <b>PRINCE GEORGE'S COUNTY --- 0.9 NNW CROOME [38.79, -76.78]</b>  |                    |                   |                     |                                |
|   | 07/22/20 15:15 EST |                   | 3K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 15:15 EST |                   | 0                   | Source: Department of Highways |
| <p>Trees were blown down near Upper Marlboro, including on US-301 Crain Highway near Sasser Lane, and on MD-382 Croom Road near Mattaponi Road.</p>   |                    |                   |                     |                                |
| <b>HARFORD COUNTY --- 0.6 SSE MADONNA [39.61, -76.52]</b>   |                    |                   |                     |                                |
|   | 07/22/20 15:17 EST |                   | 10K                 | Thunderstorm Wind (EG 55 kt)   |
|   | 07/22/20 15:17 EST |                   | 0                   | Source: 911 Call Center        |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location  | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details         |
|---|--------------------|-------------------|---------------------|--------------------------------|
| Numerous trees were blown down in an near Jarrettsville.                                      |                    |                   |                     |                                |
| <b>HOWARD COUNTY --- 1.3 WNW PINE ORCHARD [39.29, -76.89]</b>                                 |                    |                   |                     |                                |
|   | 07/22/20 15:21 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 15:21 EST |                   | 0                   | Source: Department of Highways |
| Trees were blown down on US-40 Baltimore National Pike near Turf Valley Road.                 |                    |                   |                     |                                |
| <b>HOWARD COUNTY --- 1.0 SE SIMPSONVILLE [39.17, -76.86]</b>                                  |                    |                   |                     |                                |
|   | 07/22/20 15:26 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 15:26 EST |                   | 0                   | Source: 911 Call Center        |
| A tree blew down on Gilford Road near Edenbrook Road.   |                    |                   |                     |                                |
| <b>CALVERT COUNTY --- 2.4 SE SUNDERLAND [38.64, -76.57]</b>                                   |                    |                   |                     |                                |
|   | 07/22/20 15:33 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 15:33 EST |                   | 0                   | Source: 911 Call Center        |
| A tree was blown down on Hardesty Road near Huntingtown.                                      |                    |                   |                     |                                |
| <b>HARFORD COUNTY --- 1.5 NNE ROCKS [39.65, -76.41]</b>                                       |                    |                   |                     |                                |
|   | 07/22/20 15:33 EST |                   | 3K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 15:33 EST |                   | 0                   | Source: 911 Call Center        |
| Multiple trees were blown down near Rocks Road and Coen Road.                                 |                    |                   |                     |                                |
| <b>CALVERT COUNTY --- 1.6 ESE BOWENS [38.49, -76.59]</b>                                      |                    |                   |                     |                                |
|   | 07/22/20 15:47 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 15:47 EST |                   | 0                   | Source: 911 Call Center        |
| A tree was blown down at the intersection of Sixes Road and Grays Road.                       |                    |                   |                     |                                |
| <b>BALTIMORE COUNTY --- 1.3 ENE PIKESVILLE [39.38, -76.70]</b>                                |                    |                   |                     |                                |
|   | 07/22/20 15:51 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 15:51 EST |                   | 0                   | Source: 911 Call Center        |
| A tree was blown down on Cromwell Bridge Road between Loch Raven Boulevard and Cub Hill Road. |                    |                   |                     |                                |
| <b>BALTIMORE CITY (C) COUNTY --- 0.9 W RASPEBURG [39.37, -76.57]</b>                          |                    |                   |                     |                                |
|   | 07/22/20 15:53 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 15:53 EST |                   | 0                   | Source: 911 Call Center        |
| A tree was blown down in the Perring Parkway area.  |                    |                   |                     |                                |
| <b>BALTIMORE CITY (C) COUNTY --- 0.4 N CAMDEN [39.29, -76.63]</b>                             |                    |                   |                     |                                |
|   | 07/22/20 15:55 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 15:55 EST |                   | 0                   | Source: 911 Call Center        |
| A tree was blown down in the 800 block of West Lombard Street.                                |                    |                   |                     |                                |
| <b>BALTIMORE CITY (C) COUNTY --- 0.5 NNW CRISP [39.24, -76.59]</b>                            |                    |                   |                     |                                |
|   | 07/22/20 15:59 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 15:59 EST |                   | 0                   | Source: 911 Call Center        |
| A tree was blown down on Chesapeake Road.   |                    |                   |                     |                                |
| <b>CALVERT COUNTY --- 0.8 SSE BROOMES IS [38.41, -76.55]</b>                                  |                    |                   |                     |                                |
|   | 07/22/20 16:08 EST |                   | 0                   | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 16:08 EST |                   | 0                   | Source: Mesonet                |
| Mesonet site MD045 (from the MD SHA) measured a wind gust of 50 knots (58 MPH).               |                    |                   |                     |                                |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location   | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details          |
|--|--------------------|-------------------|---------------------|---------------------------------|
| <b>HARFORD COUNTY --- 0.4 SW STEPNEY [39.48, -76.20]</b>   |                    |                   |                     |                                 |
|  | 07/22/20 16:14 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)    |
|  | 07/22/20 16:14 EST |                   | 0                   | Source: 911 Call Center         |
| A tree was blown down blocking Cranberry Road.   |                    |                   |                     |                                 |
| An upper-level trough interacted with a stalled surface front draped over the Mid-Atlantic resulting in scattered to numerous showers and thunderstorms developing in the lee of the Appalachians Mountains as early as midday. The storms coalesced into a bow echo moved eastward across central Maryland and northern Virginia (including the DC metro) during the mid afternoon. Thunderstorms exited the area by nightfall. |                    |                   |                     |                                 |
| <b>(MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT</b>  |                    |                   |                     |                                 |
|  | 07/23/20 11:00 EST |                   | 0                   | Heat                            |
|  | 07/23/20 19:00 EST |                   | 0                   |                                 |
| A ridge of high pressure developed over the eastern United States and western Atlantic, allowing a southwesterly flow to bring plenty of tropical air northward. High temperatures plus high humidity resulted in heat indices in the 100-110 degree range.  |                    |                   |                     |                                 |
| <b>ALLEGANY COUNTY --- 1.7 E TOWN CREEK [39.53, -78.52]</b>  |                    |                   |                     |                                 |
|  | 07/23/20 14:57 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)    |
|  | 07/23/20 14:57 EST |                   | 0                   | Source: 911 Call Center         |
| Tree damage was reported near Old Town, including on MD-51 Oldtown Road Southeast near Crabtree Lane.  |                    |                   |                     |                                 |
| <b>PRINCE GEORGE'S COUNTY --- 0.6 WNW PHELPS CORNER [38.80, -76.99]</b>  |                    |                   |                     |                                 |
|  | 07/23/20 19:46 EST |                   | 10K                 | Thunderstorm Wind (EG 50 kt)    |
|  | 07/23/20 19:46 EST |                   | 0                   | Source: 911 Call Center         |
| Several trees were blown down in the Oxon Hill area.   |                    |                   |                     |                                 |
| <b>PRINCE GEORGE'S COUNTY --- 0.5 SSE ALEXANDRIA JCT [38.94, -76.93]</b>   |                    |                   |                     |                                 |
|  | 07/23/20 20:12 EST |                   | 5K                  | Thunderstorm Wind (EG 50 kt)    |
|  | 07/23/20 20:12 EST |                   | 0                   | Source: 911 Call Center         |
| Several trees were blown down in the Bladensburg area.   |                    |                   |                     |                                 |
| A few severe thunderstorms developed along a weak, stalled front.  |                    |                   |                     |                                 |
| <b>PRINCE GEORGE'S COUNTY --- 0.9 SE FOREST HGTS [38.81, -76.99], 0.6 SE FOREST HGTS [38.81, -76.99], 0.5 SSE FOREST HGTS [38.81, -77.00], 0.8 NNE OXON HILL [38.81, -76.99]</b>   |                    |                   |                     |                                 |
|  | 07/23/20 20:50 EST |                   | 0                   | Flood (due to Heavy Rain)       |
|  | 07/23/20 22:50 EST |                   | 0                   | Source: State Official          |
| Livingston Road closed in 5500 block due to high water.  |                    |                   |                     |                                 |
| <b>BALTIMORE COUNTY --- 0.9 NNW OAKLEIGH [39.41, -76.55], 0.9 N OAKLEIGH [39.41, -76.55], 0.9 N OAKLEIGH [39.41, -76.55], 0.8 NNW OAKLEIGH [39.41, -76.55]</b>   |                    |                   |                     |                                 |
|  | 07/24/20 17:14 EST |                   | 0                   | Flash Flood (due to Heavy Rain) |
|  | 07/24/20 17:22 EST |                   | 0                   | Source: River/Stream Gage       |
| The water level rose above flood stage of 10 feet along the Minebank Run at Glen Arm, and it crested at 10.16 feet at 5:20 PM EST. Water covered the access road to Talmar.  |                    |                   |                     |                                 |
| <b>BALTIMORE COUNTY --- 2.3 SW LUTZ HILL [39.30, -76.55], 2.3 SW LUTZ HILL [39.30, -76.55], 2.2 SW LUTZ HILL [39.30, -76.55], 2.2 SW LUTZ HILL [39.30, -76.55]</b>   |                    |                   |                     |                                 |
|  | 07/24/20 17:46 EST |                   | 50K                 | Flash Flood (due to Heavy Rain) |
|  | 07/24/20 19:30 EST |                   | 0                   | Source: Trained Spotter         |
| Multiple vehicles were trapped in water near the intersection of US Route 40 (Pulaski Highway) and East Monument Street. The water was two-thirds of the way up the vehicles.  |                    |                   |                     |                                 |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location   | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details          |
|--|--------------------|-------------------|---------------------|---------------------------------|
| <b>BALTIMORE COUNTY --- 1.5 SSW LUTZ HILL [39.30, -76.53], 1.2 SSW LUTZ HILL [39.30, -76.53], 1.2 SSW LUTZ HILL [39.30, -76.53], 1.5 SSW LUTZ HILL [39.30, -76.53]</b>   |                    |                   |                     |                                 |
|  | 07/24/20 17:59 EST |                   | 20K                 | Flash Flood (due to Heavy Rain) |
|  | 07/24/20 19:30 EST |                   | 0                   | Source: Department of Highways  |
| Two vehicles were stranded in high water on the ramp from Interstate 95 northbound toward Moravia Road northbound.   |                    |                   |                     |                                 |
| <b>BALTIMORE COUNTY --- 1.5 NW SPARROWS PT [39.29, -76.60], 1.5 NW SPARROWS PT [39.28, -76.60], 1.0 NNW SPARROWS PT [39.28, -76.59], 1.2 NNW SPARROWS PT [39.29, -76.59]</b>   |                    |                   |                     |                                 |
|  | 07/24/20 18:00 EST |                   | 30K                 | Flash Flood (due to Heavy Rain) |
|  | 07/24/20 19:30 EST |                   | 0                   | Source: Fire Department/Rescue  |
| Heavy rainfall led to flooding that resulted in three water rescues in the Fells Point area.   |                    |                   |                     |                                 |
| <b>BALTIMORE COUNTY --- 1.5 SSW LUTZ HILL [39.30, -76.53], 1.5 NNW ST HELENA [39.29, -76.54], 0.9 NW ST HELENA [39.28, -76.54], 0.8 NNW ST HELENA [39.28, -76.53]</b>  |                    |                   |                     |                                 |
|  | 07/24/20 18:00 EST |                   | 50K                 | Flash Flood (due to Heavy Rain) |
|  | 07/24/20 19:30 EST |                   | 0                   | Source: Fire Department/Rescue  |
| Five water rescues in the vicinity of Kane Street.   |                    |                   |                     |                                 |
| <b>BALTIMORE COUNTY --- 2.7 E CATONSVILLE MANOR [39.30, -76.67], 2.8 E CATONSVILLE MANOR [39.30, -76.67], 2.5 E CATONSVILLE MANOR [39.30, -76.67], 2.2 E CATONSVILLE MANOR [39.30, -76.68], 2.4 ENE CATONSVILLE MANOR [39.31, -76.68], 2.7 ENE CATONSVILLE MANOR [39.31, -76.67]</b> |                    |                   |                     |                                 |
|  | 07/24/20 18:33 EST |                   | 10K                 | Flash Flood (due to Heavy Rain) |
|  | 07/24/20 19:30 EST |                   | 0                   | Source: Fire Department/Rescue  |
| Many roads were flooded in the western part of Baltimore City. A vehicle was trapped in high water on Hilton Parkway.  |                    |                   |                     |                                 |
| <b>A hot and humid airmass along with a slow moving boundary led to some showers and thunderstorms. Weak winds aloft caused storms to move slowly, and this led to some instances of flooding and flash flooding.</b>  |                    |                   |                     |                                 |
| <b>BALTIMORE COUNTY --- 0.6 NNE PARKVILLE [39.39, -76.54]</b>  |                    |                   |                     |                                 |
|  | 07/24/20 17:16 EST |                   | 5K                  | Thunderstorm Wind (EG 50 kt)    |
|  | 07/24/20 17:16 EST |                   | 0                   | Source: Broadcast Media         |
| Trees and wires were blown down in the Parkville area, including on Old Harford Road.  |                    |                   |                     |                                 |
| <b>A few isolated severe thunderstorms developed over central Virginia and near Baltimore.</b>   |                    |                   |                     |                                 |
| <b>(MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT</b>  |                    |                   |                     |                                 |
|  | 07/28/20 11:00 EST |                   | 0                   | Heat                            |
|  | 07/28/20 18:00 EST |                   | 0                   |                                 |
| <b>A ridge of high pressure developed over the eastern United States and western Atlantic, allowing a southwesterly flow to bring plenty of tropical air northward. High temperatures plus high humidity resulted in heat indices in the 100-110 degree range.</b>                   |                    |                   |                     |                                 |
| <b>CALVERT COUNTY --- 0.7 W DOWELL [38.33, -76.46]</b>   |                    |                   |                     |                                 |
|  | 07/28/20 17:12 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)    |
|  | 07/28/20 17:12 EST |                   | 0                   | Source: 911 Call Center         |
| A tree was blown down near the intersection of Langely Lane and Sedwick Avenue.  |                    |                   |                     |                                 |
| <b>An isolated severe thunderstorm developed over southern Maryland.</b>   |                    |                   |                     |                                 |
| <b>(MD-Z017) ST. MARY'S, (MD-Z018) CALVERT</b>   |                    |                   |                     |                                 |
|  | 07/30/20 12:00 EST |                   | 0                   | Heat                            |
|  | 07/30/20 18:00 EST |                   | 0                   |                                 |
| <b>A ridge of high pressure developed over the eastern United States and western Atlantic, allowing a southwesterly flow to bring plenty of tropical air northward. High temperatures plus high humidity resulted in heat indices in the 100-110 degree range.</b>                   |                    |                   |                     |                                 |
| <b>CHARLES COUNTY --- 0.2 ESE GRAYTON [38.42, -77.20]</b>  |                    |                   |                     |                                 |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location  | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details         |
|---|--------------------|-------------------|---------------------|--------------------------------|
|   | 07/31/20 16:14 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/31/20 16:14 EST |                   | 0                   | Source: 911 Call Center        |
| Trees were blown down near Nanjemoy, including near the intersection of MD-6 Port Tobacco Road and Maryland Point Road.   |                    |                   |                     |                                |
| <hr/>   |                    |                   |                     |                                |
| <b>CHARLES COUNTY --- 2.1 ESE NANJEMOY ARPT [38.45, -77.22]</b>   |                    |                   |                     |                                |
|   | 07/31/20 18:08 EST |                   | 6K                  | Thunderstorm Wind (EG 55 kt)   |
|   | 07/31/20 18:08 EST |                   | 0                   | Source: 911 Call Center        |
| Multiple trees were blown down around Nanjemoy.   |                    |                   |                     |                                |
| <hr/>   |                    |                   |                     |                                |
| <b>CHARLES COUNTY --- 1.1 SSW MARBURY [38.56, -77.16]</b>   |                    |                   |                     |                                |
|   | 07/31/20 18:15 EST |                   | 6K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/31/20 18:15 EST |                   | 0                   | Source: 911 Call Center        |
| Multiple trees were blown down near Marbury.  |                    |                   |                     |                                |
| <hr/>   |                    |                   |                     |                                |
| <b>CHARLES COUNTY --- 0.6 ENE LA PLATA [38.53, -76.97]</b>  |                    |                   |                     |                                |
|   | 07/31/20 18:20 EST |                   | 6K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/31/20 18:20 EST |                   | 0                   | Source: 911 Call Center        |
| Multiple trees were blown down around La Plata.   |                    |                   |                     |                                |
| <hr/>   |                    |                   |                     |                                |
| <b>CHARLES COUNTY --- 0.7 NE GLYMONT [38.61, -77.12]</b>  |                    |                   |                     |                                |
|   | 07/31/20 18:20 EST |                   | 6K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/31/20 18:20 EST |                   | 0                   | Source: 911 Call Center        |
| Multiple trees were blown down around Bryans Road.  |                    |                   |                     |                                |
| <hr/>   |                    |                   |                     |                                |
| <b>CHARLES COUNTY --- 2.5 W BERRY [38.65, -77.00]</b>   |                    |                   |                     |                                |
|   | 07/31/20 18:28 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/31/20 18:28 EST |                   | 0                   | Source: Broadcast Media        |
| Trees were blown down on MD-228 Berry Road between MD-229 Bensville Road and Beale Hill Road.   |                    |                   |                     |                                |
| <hr/>   |                    |                   |                     |                                |
| <b>PRINCE GEORGE'S COUNTY --- 0.2 SSW LARGO [38.90, -76.83]</b>   |                    |                   |                     |                                |
|   | 07/31/20 18:47 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/31/20 18:47 EST |                   | 0                   | Source: Department of Highways |
| Trees were reported down in Largo, including on westbound MD-202 Largo Road at MD-214 Central Avenue.   |                    |                   |                     |                                |
| <hr/>   |                    |                   |                     |                                |
| <b>MONTGOMERY COUNTY --- 1.7 WSW TRAVILAH [39.06, -77.30]</b>   |                    |                   |                     |                                |
|   | 07/31/20 19:00 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/31/20 19:00 EST |                   | 0                   | Source: Department of Highways |
| Trees were blown down on MD-191 River Road between Maidens Bower Drive and Pettit Way.  |                    |                   |                     |                                |
| <hr/>   |                    |                   |                     |                                |
| <b>MONTGOMERY COUNTY --- 1.1 S GERMANTOWN [39.16, -77.28]</b>   |                    |                   |                     |                                |
|   | 07/31/20 19:15 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/31/20 19:15 EST |                   | 0                   | Source: Public                 |
| Multiple large tree limbs were blown down around Germantown.  |                    |                   |                     |                                |
| <hr/>   |                    |                   |                     |                                |
| <b>ANNE ARUNDEL COUNTY --- (BWI)BALTMOR-WSHNGTN [39.17, -76.67]</b>   |                    |                   |                     |                                |
|   | 07/31/20 19:33 EST |                   | 4K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/31/20 19:33 EST |                   | 0                   | Source: Department of Highways |
| Trees were blown down near the intersection of MD-953 Glenn Dale Road and Old Pond Drive, and near the intersection of MD-424 Davidsonville Road and Gernster Road. |                    |                   |                     |                                |
| <hr/>   |                    |                   |                     |                                |
| <b>BALTIMORE CITY (C) COUNTY --- 1.4 WNW ARLINGTON [39.34, -76.70]</b>  |                    |                   |                     |                                |



## Storm Data and Unusual Weather Phenomena - July 2020

| Location | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details       |
|----------|--------------------|-------------------|---------------------|------------------------------|
|          | 07/31/20 19:53 EST |                   | 3K                  | Thunderstorm Wind (EG 50 kt) |
|          | 07/31/20 19:53 EST |                   | 0                   | Source: 911 Call Center      |

A tree blew down in the 5600 block of Crystlar Avenue. A tree blew down on Wabash Avenue.

### HARFORD COUNTY --- 1.4 S JOPPA [39.41, -76.36]

|  |                    |  |    |                              |
|--|--------------------|--|----|------------------------------|
|  | 07/31/20 20:22 EST |  | 3K | Thunderstorm Wind (EG 50 kt) |
|  | 07/31/20 20:22 EST |  | 0  | Source: 911 Call Center      |

Trees were blown down near Joppatowne and Edgewood, including on Shore Drive and Nuttal Avenue.

### HARFORD COUNTY --- 1.0 SSW PERRYMAN [39.46, -76.21]

|  |                    |  |    |                              |
|--|--------------------|--|----|------------------------------|
|  | 07/31/20 20:29 EST |  | 3K | Thunderstorm Wind (EG 50 kt) |
|  | 07/31/20 20:29 EST |  | 0  | Source: 911 Call Center      |

Trees and wires blew down in and near Perryman, including on MD-7 Philadelphia Road at Brass Mill Road.

### HARFORD COUNTY --- 1.4 E BENSON [39.50, -76.35]

|  |                    |  |     |                              |
|--|--------------------|--|-----|------------------------------|
|  | 07/31/20 20:33 EST |  | 10K | Thunderstorm Wind (EG 55 kt) |
|  | 07/31/20 20:33 EST |  | 0   | Source: 911 Call Center      |

A tree was blown down on Whitaker Mill Road at West Ring Factory Road. Tree limbs were blown down along Shelburne Road. A tree blew down on MD-152 Mountain Road at Old Joppa Road. A tree blew down on Stockton Road at MD-152 Mountain Road.

### HARFORD COUNTY --- 0.4 NNE BEL AIR [39.53, -76.35]

|  |                    |  |    |                              |
|--|--------------------|--|----|------------------------------|
|  | 07/31/20 20:40 EST |  | 6K | Thunderstorm Wind (EG 50 kt) |
|  | 07/31/20 20:40 EST |  | 0  | Source: 911 Call Center      |

Trees were blown down near Bel Air and Churchville, including on Blue Silver Road and on Thomas Run Road. A tree blew down on Moores Mill Road. Trees blew down on southbound MD-24 Veterans Memorial Highway near Plumtree Road.

**A stalled front ignited scattered strong to severe thunderstorms across east-central Virginia into central/southern Maryland.**

## VIRGINIA, North

### ALBEMARLE COUNTY --- 1.9 SSE FREE UNION [38.14, -78.56]

|  |                    |  |    |                              |
|--|--------------------|--|----|------------------------------|
|  | 07/01/20 14:25 EST |  | 5K | Thunderstorm Wind (EG 50 kt) |
|  | 07/01/20 14:25 EST |  | 0  | Source: 911 Call Center      |

Tree damage was reported near Free Union, including numerous trees which were blown down near the 3900 block of Free Union Road.

### ALBEMARLE COUNTY --- 1.6 ENE CARTERS BRIDGE [37.91, -78.54]

|  |                    |  |    |                              |
|--|--------------------|--|----|------------------------------|
|  | 07/01/20 15:12 EST |  | 5K | Thunderstorm Wind (EG 50 kt) |
|  | 07/01/20 15:12 EST |  | 0  | Source: 911 Call Center      |

Tree damage was reported near the City of Charlottesville, including multiple trees which were blown down near the intersection of Carters Mountain Road and Scottsville Road.

**A couple of isolated severe thunderstorms developed during the afternoon hours of Wednesday, July 1st, 2020, near the City of Charlottesville, Virginia.**

### MADISON COUNTY --- 1.5 SW HOOD [38.33, -78.40]

|  |                    |  |       |                              |
|--|--------------------|--|-------|------------------------------|
|  | 07/05/20 13:22 EST |  | 1.50K | Thunderstorm Wind (EG 50 kt) |
|  | 07/05/20 13:22 EST |  | 0     | Source: 911 Call Center      |

A large tree was blown down on Wolfstown-Hood Road near the Madison/Greene County Line.

### PAGE COUNTY --- 0.9 WSW MARKSVILLE [38.57, -78.50]

|  |                    |  |    |                              |
|--|--------------------|--|----|------------------------------|
|  | 07/05/20 14:16 EST |  | 1K | Thunderstorm Wind (EG 50 kt) |
|  | 07/05/20 14:16 EST |  | 0  | Source: Broadcast Media      |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location   | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details         |
|--|--------------------|-------------------|---------------------|--------------------------------|
| A large tree was blown down at a residence near Stanley.   |                    |                   |                     |                                |
| <b>PAGE COUNTY --- 1.2 SE LURAY [38.66, -78.45]</b>  |                    |                   |                     |                                |
|  | 07/05/20 14:19 EST |                   | 5K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/05/20 14:19 EST |                   | 0                   | Source: Public                 |
| A few trees were blown down in and near Luray, including one that fell onto power lines at the intersection of Dry Run Road and Clearview Road.  |                    |                   |                     |                                |
| <b>PAGE COUNTY --- 1.3 SSE SPRINGFIELD [38.70, -78.44]</b>   |                    |                   |                     |                                |
|  | 07/05/20 14:24 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/05/20 14:24 EST |                   | 0                   | Source: 911 Call Center        |
| Two trees were blown down at the intersection of northbound US-340 and VA-658 Pass Run Road.   |                    |                   |                     |                                |
| <b>ORANGE COUNTY --- 1.3 E ORANGE [38.25, -78.10]</b>  |                    |                   |                     |                                |
|  | 07/05/20 14:25 EST |                   | 5K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/05/20 14:25 EST |                   | 0                   | Source: Trained Spotter        |
| Trees were blown down on Boxley Lane near Maddox Drive. Trees were blown down on West Main Street in Orange.   |                    |                   |                     |                                |
| <b>ALBEMARLE COUNTY --- 0.5 NNE IVY [38.06, -78.60]</b>  |                    |                   |                     |                                |
|  | 07/05/20 14:27 EST |                   | 5K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/05/20 14:27 EST |                   | 0                   | Source: Public                 |
| Multiple trees were blown down blocking roads in the Ivy area.   |                    |                   |                     |                                |
| <b>PAGE COUNTY --- 0.7 ESE RILEYVILLE [38.77, -78.39]</b>  |                    |                   |                     |                                |
|  | 07/05/20 14:47 EST |                   | 0                   | Hail (1.25 in)                 |
|  | 07/05/20 14:47 EST |                   | 0                   | Source: Trained Spotter        |
| Half dollar size hail was reported near Rileyville.  |                    |                   |                     |                                |
| <b>ALBEMARLE COUNTY --- 1.0 ESE KEENE [37.86, -78.55]</b>  |                    |                   |                     |                                |
|  | 07/05/20 15:33 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/05/20 15:33 EST |                   | 0                   | Source: Trained Spotter        |
| A tree was blown down on VA-20 near Keene.   |                    |                   |                     |                                |
| <b>FAIRFAX COUNTY --- 1.7 E ELORIS [38.93, -77.39]</b>   |                    |                   |                     |                                |
|  | 07/05/20 16:03 EST |                   | 0                   | Hail (1.00 in)                 |
|  | 07/05/20 16:03 EST |                   | 0                   | Source: NWS Employee           |
| Nickel to quarter size hail was reported in Reston.  |                    |                   |                     |                                |
| <b>AUGUSTA COUNTY --- 1.0 NNE MILLBROOK [38.19, -79.02]</b>  |                    |                   |                     |                                |
|  | 07/05/20 16:17 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/05/20 16:17 EST |                   | 0                   | Source: 911 Call Center        |
| A tree blew down onto power lines near the intersection of US-11 Lee Jackson Memorial Highway and Cedar Lane.  |                    |                   |                     |                                |
| <b>AUGUSTA COUNTY --- 2.5 WSW MILLBROOK [38.16, -79.07]</b>  |                    |                   |                     |                                |
|  | 07/05/20 16:20 EST |                   | 0                   | Hail (1.00 in)                 |
|  | 07/05/20 16:20 EST |                   | 0                   | Source: Trained Spotter        |
| Hail up to quarter size was reported in Staunton.  |                    |                   |                     |                                |
| <b>ARLINGTON COUNTY --- 2.5 N BARCROFT [38.94, -77.12]</b>   |                    |                   |                     |                                |
|  | 07/05/20 16:22 EST |                   | 3K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/05/20 16:22 EST |                   | 0                   | Source: Department of Highways |
| Several trees were blown down on VA-123 Chain Bridge Road between George Washington Memorial Parkway and VA-120 Glebe Road, including a large tree which blew down into the roadway at Chain Bridge. |                    |                   |                     |                                |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location   | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details          |
|--|--------------------|-------------------|---------------------|---------------------------------|
| <b>AUGUSTA COUNTY --- 2.6 NE DEERFIELD [38.22, -79.36]</b>   |                    |                   |                     |                                 |
|  | 07/05/20 16:41 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt)    |
|  | 07/05/20 16:41 EST |                   | 0                   | Source: 911 Call Center         |
| There were two reports of trees blown down in the Deerfield area.  |                    |                   |                     |                                 |
| <b>An upper-level disturbance interacting with a stalled surface front draped over Maryland produced widely scattered severe thunderstorms during the afternoon of Sunday, July 5th, 2020.</b>                                       |                    |                   |                     |                                 |
| <b>GREENE COUNTY --- 0.2 SSE KINDERHOOK [38.37, -78.43]</b>  |                    |                   |                     |                                 |
|  | 07/06/20 13:44 EST |                   | 3K                  | Thunderstorm Wind (EG 50 kt)    |
|  | 07/06/20 13:44 EST |                   | 0                   | Source: 911 Call Center         |
| Large tree limbs blew down in the 3500 block of Middle River Road. A large tree was blown down in Kinderhook.  |                    |                   |                     |                                 |
| <b>MADISON COUNTY --- 0.4 ENE HOOD [38.35, -78.37]</b>   |                    |                   |                     |                                 |
|  | 07/06/20 13:51 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt)    |
|  | 07/06/20 13:51 EST |                   | 0                   | Source: Public                  |
| Trees and wires blew down near Wolfstown.  |                    |                   |                     |                                 |
| <b>WAYNESBORO (C) COUNTY --- 2.0 W WAYNESBORO [38.07, -78.92]</b>  |                    |                   |                     |                                 |
|  | 07/06/20 15:56 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt)    |
|  | 07/06/20 15:56 EST |                   | 0                   | Source: 911 Call Center         |
| A tree was blown down blocking the roadway at the intersection of Rosser Avenue and South Ellison Lane.  |                    |                   |                     |                                 |
| <b>ROCKINGHAM COUNTY --- 1.1 NNW PENN LAIRD [38.39, -78.81]</b>  |                    |                   |                     |                                 |
|  | 07/06/20 16:07 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt)    |
|  | 07/06/20 16:07 EST |                   | 0                   | Source: 911 Call Center         |
| Trees were blown down blocking the roadway in the vicinity of US-33 Spotswood Trail and VA-276 Cross Keys Road/VA-620 Indian Trail Road.   |                    |                   |                     |                                 |
| <b>ARLINGTON COUNTY --- 1.8 SSE SOUTH WASHINGTON [38.85, -77.03]</b>   |                    |                   |                     |                                 |
|  | 07/06/20 17:24 EST |                   | 0                   | Thunderstorm Wind (EG 52 kt)    |
|  | 07/06/20 17:24 EST |                   | 0                   | Source: ASOS                    |
| A wind gust of 52 knots (60 MPH) was measured by the ASOS at Ronald Reagan Washington National Airport (KDCA).   |                    |                   |                     |                                 |
| <b>ARLINGTON COUNTY --- 1.4 E BARCROFT [38.90, -77.10]</b>   |                    |                   |                     |                                 |
|  | 07/06/20 18:03 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)    |
|  | 07/06/20 18:03 EST |                   | 0                   | Source: 911 Call Center         |
| A tree was blown down in the 3600 block of Vacation Lane.  |                    |                   |                     |                                 |
| <b>An upper-level disturbance triggered scattered to numerous showers and thunderstorms. The very unstable lower-level air mass resulted in an environment conducive to downburst winds.</b>   |                    |                   |                     |                                 |
| <b>ALEXANDRIA (C) COUNTY --- 1.0 NNW POTOMAC YARD [38.84, -77.09], 1.0 NNW POTOMAC YARD [38.84, -77.09], 0.9 NNW POTOMAC YARD [38.84, -77.09], 1.0 NNW POTOMAC YARD [38.84, -77.09]</b>  |                    |                   |                     |                                 |
|  | 07/07/20 01:42 EST |                   | 0                   | Flash Flood (due to Heavy Rain) |
|  | 07/07/20 02:06 EST |                   | 0                   | Source: River/Stream Gage       |
| The water level rapidly rose above flood stage of 12 feet along the Four Mile Run, cresting at 12.91 feet at 1:50 AM EST. Water flooded the north bank, into grassy areas and parking lots.  |                    |                   |                     |                                 |
| <b>FAIRFAX COUNTY --- 1.5 SSW LAKE BARCROFT [38.83, -77.21], 1.4 SSW LAKE BARCROFT [38.83, -77.21], 1.3 SSE TREMONT [38.83, -77.21], 1.2 S TREMONT [38.83, -77.22], 1.2 S TREMONT [38.83, -77.22], 1.3 S TREMONT [38.83, -77.22]</b> |                    |                   |                     |                                 |
|  | 07/07/20 01:55 EST |                   | 50K                 | Flood (due to Heavy Rain)       |
|  | 07/07/20 03:40 EST |                   | 0                   | Source: State Official          |
| Water was reported in homes in Annandale.  |                    |                   |                     |                                 |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location  | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details          |
|---|--------------------|-------------------|---------------------|---------------------------------|
| <b>FAIRFAX COUNTY --- 0.6 S CULMORE [38.86, -77.17], 0.5 S CULMORE [38.86, -77.17], 0.4 SSW CULMORE [38.86, -77.17], 0.4 SSW CULMORE [38.86, -77.17]</b>  |                    |                   |                     |                                 |
|   | 07/07/20 02:00 EST |                   | 50K                 | Flash Flood (due to Heavy Rain) |
|   | 07/07/20 03:40 EST |                   | 0                   | Source: State Official          |
| Flash flooding was reported in the 6600 block of Barrett Road in Falls Church. Flood waters entered homes and a water rescue was required for a stranded vehicle.   |                    |                   |                     |                                 |
| <b>ALEXANDRIA (C) COUNTY --- 2.0 WSW ALEXANDRIA [38.81, -77.11], 1.8 WSW ALEXANDRIA [38.81, -77.11], 1.8 WSW ALEXANDRIA [38.81, -77.11], 2.0 WSW ALEXANDRIA [38.81, -77.11]</b>   |                    |                   |                     |                                 |
|   | 07/07/20 02:34 EST |                   | 0                   | Flash Flood (due to Heavy Rain) |
|   | 07/07/20 02:52 EST |                   | 0                   | Source: River/Stream Gage       |
| The water level rapidly rose above flood stage of 11 feet along Cameron Run, cresting at 11.35 feet at 2:45 AM EST. Backwater flooding affected areas along Backlick Run upstream of Cameron Run.   |                    |                   |                     |                                 |
| <b>ARLINGTON COUNTY --- 1.4 WSW ROSSLYN [38.87, -77.10], 1.3 WSW ROSSLYN [38.87, -77.10], 1.2 WSW ROSSLYN [38.87, -77.10], 1.3 WSW ROSSLYN [38.87, -77.10]</b>  |                    |                   |                     |                                 |
|   | 07/07/20 03:00 EST |                   | 0                   | Flood (due to Heavy Rain)       |
|   | 07/07/20 03:40 EST |                   | 0                   | Source: State Official          |
| Arlington Boulevard at Glebe Road closed due to high water.   |                    |                   |                     |                                 |
| <b>FAIRFAX COUNTY --- 0.1 WSW CLARKS CROSSING [38.92, -77.30], 0.2 WSW CLARKS CROSSING [38.92, -77.30], 0.2 SSW CLARKS CROSSING [38.92, -77.30], 0.1 SSW CLARKS CROSSING [38.92, -77.30]</b>  |                    |                   |                     |                                 |
|   | 07/07/20 03:15 EST |                   | 0                   | Flood (due to Heavy Rain)       |
|   | 07/07/20 03:40 EST |                   | 0                   | Source: State Official          |
| Lawyers Road closed near Hunter Mill Road due to high water.  |                    |                   |                     |                                 |
| <b>A southerly flow ushered in moisture from the Gulf of Mexico and Atlantic Ocean, while a trough of low pressure remained over the region. Showers and thunderstorms developed, and with a weak flow aloft this caused locally heavy amounts of rain to fall in some locations.</b>   |                    |                   |                     |                                 |
| <b>(VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z030) WARREN</b>  |                    |                   |                     |                                 |
|   | 07/08/20 05:15 EST |                   | 0                   | Dense Fog                       |
|   | 07/08/20 07:47 EST |                   | 0                   |                                 |
| <b>Weak high pressure and light winds plus very moist air allowed dense fog to develop overnight across the Shenandoah Valley. Visibility was around one quarter mile or less in spots. The fog dissipated after sunrise.</b>   |                    |                   |                     |                                 |
| <b>NELSON COUNTY --- 1.5 SSE ROSELAND [37.73, -78.97]</b>   |                    |                   |                     |                                 |
|   | 07/10/20 17:03 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)    |
|   | 07/10/20 17:03 EST |                   | 0                   | Source: 911 Call Center         |
| A tree was blown down in the 100 block of VA-655 Roseland Road.   |                    |                   |                     |                                 |
| <b>A few severe thunderstorms developed over western Virginia and eastern West Virginia during the early evening hours of Friday, July 10th, 2020.</b>  |                    |                   |                     |                                 |
| <b>(VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA, (VA-Z057) KING GEORGE</b>  |                    |                   |                     |                                 |
|   | 07/17/20 12:00 EST |                   | 0                   | Heat                            |
|   | 07/17/20 19:00 EST |                   | 0                   |                                 |
| <b>A ridge of high pressure developed over the eastern United States and western Atlantic, allowing a southwesterly flow to bring plenty of tropical air northward. High temperatures plus high humidity resulted in heat indices in the 100-110 degree range.</b>  |                    |                   |                     |                                 |
| <b>(VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z040) RAPPAHANNOCK, (VA-Z050) ORANGE, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA, (VA-Z057) KING GEORGE, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN</b> |                    |                   |                     |                                 |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|--------------------|-------------------|---------------------|------------------------|
|          | 07/19/20 11:00 EST |                   | 0                   | Heat                   |
|          | 07/19/20 19:00 EST |                   | 0                   |                        |

A ridge of high pressure developed over the eastern United States and western Atlantic, allowing a southwesterly flow to bring plenty of tropical air northward. High temperatures plus high humidity resulted in heat indices in the 100-110 degree range.

(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z036) NELSON, (VA-Z037) ALBEMARLE, (VA-Z038) GREENE, (VA-Z039) MADISON, (VA-Z040) RAPPAHANNOCK, (VA-Z050) ORANGE, (VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA, (VA-Z057) KING GEORGE, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN

|                    |   |      |
|--------------------|---|------|
| 07/20/20 11:00 EST | 0 | Heat |
| 07/20/20 19:00 EST | 0 |      |

A ridge of high pressure developed over the eastern United States and western Atlantic, allowing a southwesterly flow to bring plenty of tropical air northward. High temperatures plus high humidity resulted in heat indices in the 100-110 degree range.

### MADISON COUNTY --- 0.8 SE BANCO [38.44, -78.29]

|                    |    |                              |
|--------------------|----|------------------------------|
| 07/20/20 16:12 EST | 6K | Thunderstorm Wind (EG 50 kt) |
| 07/20/20 16:12 EST | 0  | Source: 911 Call Center      |

Multiple trees were blown down along VA-651 Aylor Road between VA-231 North Blue Ridge Turnpike and VA-650 Oak Grove Road.

### ROCKINGHAM COUNTY --- 0.3 SSW TENTH LEGION [38.58, -78.73]

|                    |     |                              |
|--------------------|-----|------------------------------|
| 07/20/20 16:32 EST | 10K | Thunderstorm Wind (EG 55 kt) |
| 07/20/20 16:32 EST | 0   | Source: 911 Call Center      |

Numerous trees were blown down in the 500 block of Arkton Road. A tree blew down on Koontz Corner Road. A metal roof on a home was struck by lightning, split, and then blew into power lines starting a fire.

### FAIRFAX COUNTY --- 1.0 SSW LAKE BARCROFT [38.84, -77.21]

|                    |    |                              |
|--------------------|----|------------------------------|
| 07/20/20 16:42 EST | 5K | Thunderstorm Wind (EG 50 kt) |
| 07/20/20 16:42 EST | 0  | Source: 911 Call Center      |

Several trees were blown down onto power lines near the intersection of VA-711 Gallows Road and VA-650 Annandale Road.

### PAGE COUNTY --- 1.8 SW NEWPORT [38.56, -78.62]

|                    |    |                              |
|--------------------|----|------------------------------|
| 07/20/20 16:48 EST | 2K | Thunderstorm Wind (EG 50 kt) |
| 07/20/20 16:48 EST | 0  | Source: Broadcast Media      |

A tree was uprooted and fell onto power lines on Newport Road.

### FAIRFAX COUNTY --- 0.5 NNW FAIRFAX STATION [38.81, -77.32]

|                    |    |                              |
|--------------------|----|------------------------------|
| 07/20/20 17:15 EST | 6K | Thunderstorm Wind (EG 50 kt) |
| 07/20/20 17:15 EST | 0  | Source: 911 Call Center      |

Trees were blown down between Fairfax Station and Burke, including along Middlegate Drive, near the intersection of VA-644 Old Keene Mill Road and Field Master Drive, and in the 6100 block of VA-644 Old Keene Mill Road.

### FAIRFAX COUNTY --- 2.0 S FAIRFAX PARK [38.74, -77.25]

|                    |    |                              |
|--------------------|----|------------------------------|
| 07/20/20 17:20 EST | 5K | Thunderstorm Wind (EG 55 kt) |
| 07/20/20 17:20 EST | 0  | Source: 911 Call Center      |

Multiple trees were blown down near Springfield, including in the 8700 block of Scott Street.

### FAIRFAX COUNTY --- 0.7 NNE POHICK [38.71, -77.19]

|                    |    |                              |
|--------------------|----|------------------------------|
| 07/20/20 17:25 EST | 5K | Thunderstorm Wind (EG 50 kt) |
| 07/20/20 17:25 EST | 0  | Source: 911 Call Center      |

Trees were blown down onto power lines near Newington, including near the intersection of US-1 Richmond Highway and VA-611 Telegraph Road.

### ALEXANDRIA (C) COUNTY --- 0.3 WNW ALEXANDRIA [38.82, -77.09]

## Storm Data and Unusual Weather Phenomena - July 2020

| Location  | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details       |
|---|--------------------|-------------------|---------------------|------------------------------|
|   | 07/20/20 19:14 EST |                   | 20K                 | Thunderstorm Wind (EG 55 kt) |
|   | 07/20/20 19:14 EST |                   | 0                   | Source: 911 Call Center      |
| Numerous trees were blown down throughout the City of Alexandria.   |                    |                   |                     |                              |
| <b>Isolated severe thunderstorms developed near and southwest of the DC metro during the late afternoon and early evening hours of Monday, July 20th, 2020.</b>   |                    |                   |                     |                              |
| <b>(VA-Z050) ORANGE, (VA-Z051) CULPEPER, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA, (VA-Z057) KING GEORGE, (VA-Z502) SOUTHERN FAUQUIER</b>   |                    |                   |                     |                              |
|   | 07/21/20 11:00 EST |                   | 0                   | Heat                         |
|   | 07/21/20 19:00 EST |                   | 0                   |                              |
| A ridge of high pressure developed over the eastern United States and western Atlantic, allowing a southwesterly flow to bring plenty of tropical air northward. High temperatures plus high humidity resulted in heat indices in the 100-110 degree range. |                    |                   |                     |                              |
| <b>ROCKINGHAM COUNTY --- 1.5 SSE BERGTON [38.75, -78.92]</b>  |                    |                   |                     |                              |
|   | 07/21/20 12:45 EST |                   | 3K                  | Thunderstorm Wind (EG 50 kt) |
|   | 07/21/20 12:45 EST |                   | 0                   | Source: 911 Call Center      |
| A few trees were blown down north of Broadway.  |                    |                   |                     |                              |
| <b>ROCKINGHAM COUNTY --- 1.4 SSE GREEN MT [38.50, -78.87]</b>   |                    |                   |                     |                              |
|   | 07/21/20 12:50 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt) |
|   | 07/21/20 12:50 EST |                   | 0                   | Source: 911 Call Center      |
| A couple of trees were blown down north of Harrisonburg toward Linville.  |                    |                   |                     |                              |
| <b>ROCKINGHAM COUNTY --- 0.1 N CLOVER HILL [38.45, -79.03]</b>  |                    |                   |                     |                              |
|   | 07/21/20 14:40 EST |                   | 3K                  | Thunderstorm Wind (EG 50 kt) |
|   | 07/21/20 14:40 EST |                   | 0                   | Source: Broadcast Media      |
| A few trees were blown down or had their tops snapped off in the Clover Hill area.  |                    |                   |                     |                              |
| <b>ROCKINGHAM COUNTY --- 0.6 SW DAYTON [38.41, -78.94]</b>  |                    |                   |                     |                              |
|   | 07/21/20 14:50 EST |                   | 5K                  | Thunderstorm Wind (EG 50 kt) |
|   | 07/21/20 14:50 EST |                   | 0                   | Source: 911 Call Center      |
| Tree and power line damage was reported in and near Dayton.   |                    |                   |                     |                              |
| <b>ROCKINGHAM COUNTY --- 1.3 ENE DAYTON [38.42, -78.91]</b>   |                    |                   |                     |                              |
|   | 07/21/20 14:57 EST |                   | 10K                 | Thunderstorm Wind (EG 55 kt) |
|   | 07/21/20 14:57 EST |                   | 0                   | Source: 911 Call Center      |
| Trees and wires were blown down on Ruby Drive. Siding was blown off a home and a wooden play-set was overturned.  |                    |                   |                     |                              |
| <b>HARRISONBURG (C) COUNTY --- 1.4 SSW HARRISONBURG [38.43, -78.88]</b>   |                    |                   |                     |                              |
|   | 07/21/20 15:03 EST |                   | 20K                 | Thunderstorm Wind (EG 55 kt) |
|   | 07/21/20 15:03 EST |                   | 0                   | Source: 911 Call Center      |
| Trees and power lines were blown down in the City of Harrisonburg, including a tree and wires down on Valley Street. A 20-foot tall cherry tree was blown down near Mount Crawford. Trees were blown down in Purcell Park.                                  |                    |                   |                     |                              |
| <b>GREENE COUNTY --- 1.0 WSW MARCH [38.27, -78.55]</b>  |                    |                   |                     |                              |
|   | 07/21/20 16:02 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt) |
|   | 07/21/20 16:02 EST |                   | 0                   | Source: 911 Call Center      |
| A tree blew down in the 400 block of Bacon Hollow Road.   |                    |                   |                     |                              |
| <b>AUGUSTA COUNTY --- 2.4 W MILLBROOK [38.18, -79.07]</b>   |                    |                   |                     |                              |
|   | 07/21/20 16:15 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt) |
|   | 07/21/20 16:15 EST |                   | 0                   | Source: 911 Call Center      |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location   | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details         |
|--|--------------------|-------------------|---------------------|--------------------------------|
| Trees were blown down in the 9000 block of Spring Hill Road.   |                    |                   |                     |                                |
| <b>MADISON COUNTY --- 1.4 N OAKPARK [38.39, -78.17]</b>  |                    |                   |                     |                                |
|  | 07/21/20 16:29 EST |                   | 15K                 | Thunderstorm Wind (EG 60 kt)   |
|  | 07/21/20 16:29 EST |                   | 0                   | Source: 911 Call Center        |
| Multiple trees and power lines were blown down along Moonlight Mountain Road. One tree fell onto a vehicle. Some trees were snapped off about 15 feet above the ground.  |                    |                   |                     |                                |
| <b>MADISON COUNTY --- 1.6 N LOCUST DALE [38.35, -78.13]</b>  |                    |                   |                     |                                |
|  | 07/21/20 16:40 EST |                   | 10K                 | Thunderstorm Wind (EG 60 kt)   |
|  | 07/21/20 16:40 EST |                   | 0                   | Source: Trained Spotter        |
| Numerous trees were blown down and a horse shed was destroyed on private property.   |                    |                   |                     |                                |
| <b>ALBEMARLE COUNTY --- 6.6 NNW GREENWOOD [38.14, -78.81]</b>  |                    |                   |                     |                                |
|  | 07/21/20 16:49 EST |                   | 5K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/21/20 16:49 EST |                   | 0                   | Source: 911 Call Center        |
| Several trees blew down near Crimora.  |                    |                   |                     |                                |
| <b>FAIRFAX COUNTY --- 1.7 SW DONOVANS CORNER [38.76, -77.34]</b>   |                    |                   |                     |                                |
|  | 07/21/20 17:15 EST |                   | 3K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/21/20 17:15 EST |                   | 0                   | Source: Department of Highways |
| Trees were blown down near Clifton and Fairfax Station, including near the intersection of Craftown Road and Wedo Lane, and VA-643 Henderson Road just east of VA-647 Hampton Road.  |                    |                   |                     |                                |
| <b>STAFFORD COUNTY --- 1.3 NNW BROOKE [38.40, -77.43]</b>  |                    |                   |                     |                                |
|  | 07/21/20 18:05 EST |                   | 3K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/21/20 18:05 EST |                   | 0                   | Source: 911 Call Center        |
| A tree was blown down near the intersection of US-1 Jefferson Davis Highway and Shady Hill Lane. A tree was blown down near the intersection of US-1 Jefferson Davis Highway and Hope Road.  |                    |                   |                     |                                |
| <b>SPOTSYLVANIA COUNTY --- 0.3 ESE POST OAK [38.17, -77.67]</b>  |                    |                   |                     |                                |
|  | 07/21/20 18:09 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/21/20 18:09 EST |                   | 0                   | Source: Department of Highways |
| Trees were blown down on VA-606 Post Oak Road.   |                    |                   |                     |                                |
| <b>Scattered strong to severe thunderstorms developed along a stalled front draped across the Middle Atlantic, peaking during the early evening hours.</b>   |                    |                   |                     |                                |
| <b>(VA-Z050) ORANGE, (VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA, (VA-Z057) KING GEORGE, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER</b>   |                    |                   |                     |                                |
|  | 07/22/20 10:00 EST |                   | 0                   | Heat                           |
|  | 07/22/20 18:00 EST |                   | 0                   |                                |
| <b>A ridge of high pressure developed over the eastern United States and western Atlantic, allowing a southwesterly flow to bring plenty of tropical air northward. High temperatures plus high humidity resulted in heat indices in the 100-110 degree range.</b> |                    |                   |                     |                                |
| <b>FREDERICK COUNTY --- 0.8 ESE CEDAR GROVE [39.27, -78.19]</b>  |                    |                   |                     |                                |
|  | 07/22/20 11:58 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/22/20 11:58 EST |                   | 0                   | Source: 911 Call Center        |
| A tree was blown down in the 800 block of Old Baltimore Road.  |                    |                   |                     |                                |
| <b>NELSON COUNTY --- 0.8 SSE AFTON [38.02, -78.84]</b>   |                    |                   |                     |                                |
|  | 07/22/20 12:00 EST |                   | 10K                 | Thunderstorm Wind (EG 55 kt)   |
|  | 07/22/20 12:00 EST |                   | 0                   | Source: 911 Call Center        |
| Numerous trees were blown down in the 600 and 1700 block of Afton Mountain Road.   |                    |                   |                     |                                |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location  | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details         |
|---|--------------------|-------------------|---------------------|--------------------------------|
| <b>ALBEMARLE COUNTY --- 3.3 SSE FARMINGTON [38.01, -78.52]</b>  |                    |                   |                     |                                |
|   | 07/22/20 12:25 EST |                   | 10K                 | Thunderstorm Wind (EG 55 kt)   |
|   | 07/22/20 12:25 EST |                   | 0                   | Source: 911 Call Center        |
| Numerous trees were blown down in the 400 block of Old Lynchburg Road near I-64. A tree blew down onto a power line in the 200 block of Mobile Lane. A tree blew down across Old Lynchburg Road at Sunset Avenue. |                    |                   |                     |                                |
| <b>ALBEMARLE COUNTY --- 2.9 SE FARMINGTON [38.02, -78.51]</b>   |                    |                   |                     |                                |
|   | 07/22/20 12:32 EST |                   | 10K                 | Thunderstorm Wind (EG 55 kt)   |
|   | 07/22/20 12:32 EST |                   | 0                   | Source: 911 Call Center        |
| Numerous trees were blown down in the Fry's Spring neighborhood.  |                    |                   |                     |                                |
| <b>ALBEMARLE COUNTY --- 2.3 SSW RIO [38.04, -78.48]</b>   |                    |                   |                     |                                |
|   | 07/22/20 12:39 EST |                   | 5K                  | Thunderstorm Wind (EG 55 kt)   |
|   | 07/22/20 12:39 EST |                   | 0                   | Source: Trained Spotter        |
| Multiple trees were blown down along Harris Street.   |                    |                   |                     |                                |
| <b>ROCKINGHAM COUNTY --- 2.2 SE MELROSE [38.48, -78.77]</b>   |                    |                   |                     |                                |
|   | 07/22/20 12:44 EST |                   | 10K                 | Thunderstorm Wind (EG 55 kt)   |
|   | 07/22/20 12:44 EST |                   | 0                   | Source: 911 Call Center        |
| Numerous trees and power lines were blown down in the 2500 block of Flook Lane.   |                    |                   |                     |                                |
| <b>FREDERICK COUNTY --- 1.3 NNE MOUNTAIN FALLS [39.14, -78.39]</b>  |                    |                   |                     |                                |
|   | 07/22/20 12:58 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 12:58 EST |                   | 0                   | Source: 911 Call Center        |
| A tree was blown down near the intersection of Back Mountain Road and Copperhead Lane.  |                    |                   |                     |                                |
| <b>LOUDOUN COUNTY --- 2.8 SW PURCELLVILLE [39.12, -77.76]</b>   |                    |                   |                     |                                |
|   | 07/22/20 13:08 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 13:08 EST |                   | 0                   | Source: Department of Highways |
| A tree was blown down into the roadway at the intersection of Lickey Mill Road and Silcott Springs Road.  |                    |                   |                     |                                |
| <b>RAPPAHANNOCK COUNTY --- 2.8 SE HUNTLY [38.80, -78.09]</b>  |                    |                   |                     |                                |
|   | 07/22/20 13:15 EST |                   | 10K                 | Thunderstorm Wind (EG 55 kt)   |
|   | 07/22/20 13:15 EST |                   | 0                   | Source: 911 Call Center        |
| Numerous trees were blown down in the Flint Hill area.  |                    |                   |                     |                                |
| <b>LOUDOUN COUNTY --- 0.4 NNE TAYLORSTOWN [39.26, -77.58]</b>   |                    |                   |                     |                                |
|   | 07/22/20 13:21 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 13:21 EST |                   | 0                   | Source: Department of Highways |
| A tree blew down near the intersection of VA-668 Taylorstown Road and VA-663 Downey Mill Road.  |                    |                   |                     |                                |
| <b>ROCKINGHAM COUNTY --- 1.8 SE MELROSE [38.48, -78.77]</b>   |                    |                   |                     |                                |
|   | 07/22/20 13:21 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 13:21 EST |                   | 0                   | Source: 911 Call Center        |
| Trees and wires were blown down near the intersection of Indian Trail Road and Flook Lane.  |                    |                   |                     |                                |
| <b>LOUDOUN COUNTY --- 1.7 WSW LINCOLN [39.11, -77.71]</b>   |                    |                   |                     |                                |
|   | 07/22/20 13:29 EST |                   | 5K                  | Thunderstorm Wind (EG 55 kt)   |
|   | 07/22/20 13:29 EST |                   | 0                   | Source: 911 Call Center        |
| Multiple trees were blown down near the intersection of Telegraph Springs Road and Whitacre Lane.   |                    |                   |                     |                                |



## Storm Data and Unusual Weather Phenomena - July 2020

| Location   | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details         |
|--|--------------------|-------------------|---------------------|--------------------------------|
| <b>RAPPAHANNOCK COUNTY --- 1.6 SW AMISSVILLE [38.65, -78.02]</b>   |                    |                   |                     |                                |
|  | 07/22/20 13:29 EST |                   | 5K                  | Thunderstorm Wind (EG 55 kt)   |
|  | 07/22/20 13:29 EST |                   | 0                   | Source: 911 Call Center        |
| Numerous trees were blown down in the 400 block of View Town Road.   |                    |                   |                     |                                |
| <b>LOUDOUN COUNTY --- 1.8 N MIDDLEBURG [39.00, -77.76]</b>   |                    |                   |                     |                                |
|  | 07/22/20 13:39 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/22/20 13:39 EST |                   | 0                   | Source: Department of Highways |
| A tree blew down near the intersection of VA-744 Snake Hill Road and VA-743 Millville Road.  |                    |                   |                     |                                |
| <b>LOUDOUN COUNTY --- 1.1 ENE DOVER [38.98, -77.65]</b>  |                    |                   |                     |                                |
|  | 07/22/20 13:53 EST |                   | 3K                  | Thunderstorm Wind (EG 55 kt)   |
|  | 07/22/20 13:53 EST |                   | 0                   | Source: Department of Highways |
| Trees were blown down on US-50 Lee Jackson Memorial Highway/John Mosby Highway near VA-734 Snickersville Turnpike.   |                    |                   |                     |                                |
| <b>FAUQUIER COUNTY --- 0.1 NNW OPAL [38.62, -77.80]</b>  |                    |                   |                     |                                |
|  | 07/22/20 14:00 EST |                   | 5K                  | Thunderstorm Wind (EG 55 kt)   |
|  | 07/22/20 14:00 EST |                   | 0                   | Source: 911 Call Center        |
| Multiple trees were blown down in the Opal area.   |                    |                   |                     |                                |
| <b>FAUQUIER COUNTY --- 3.7 SSW SUMERDUCK [38.40, -77.75]</b>   |                    |                   |                     |                                |
|  | 07/22/20 14:10 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/22/20 14:10 EST |                   | 0                   | Source: 911 Call Center        |
| A tree was blown down on Summerduck Road near Courtneys Corner Road.   |                    |                   |                     |                                |
| <b>FAUQUIER COUNTY --- 1.1 W MORRISVILLE [38.50, -77.70]</b>   |                    |                   |                     |                                |
|  | 07/22/20 14:11 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/22/20 14:11 EST |                   | 0                   | Source: 911 Call Center        |
| A tree blew down on Morrisville Road near Marsh Road.  |                    |                   |                     |                                |
| <b>FAIRFAX COUNTY --- 0.7 SSE CENTREVILLE [38.82, -77.41]</b>  |                    |                   |                     |                                |
|  | 07/22/20 14:16 EST |                   | 10K                 | Thunderstorm Wind (EG 55 kt)   |
|  | 07/22/20 14:16 EST |                   | 0                   | Source: 911 Call Center        |
| Numerous trees were blown down near Clifton, including on Twin Lakes Drive near VA-659 Union Mill Road.  |                    |                   |                     |                                |
| <b>PRINCE WILLIAM COUNTY --- 0.3 W NOKESVILLE [38.70, -77.58]</b>  |                    |                   |                     |                                |
|  | 07/22/20 14:16 EST |                   | 10K                 | Thunderstorm Wind (EG 55 kt)   |
|  | 07/22/20 14:16 EST |                   | 0                   | Source: 911 Call Center        |
| Numerous trees were blown down in the Nokesville area.   |                    |                   |                     |                                |
| <b>FAIRFAX COUNTY --- 2.9 NNW RESTON [39.01, -77.33]</b>   |                    |                   |                     |                                |
|  | 07/22/20 14:20 EST |                   | 20K                 | Thunderstorm Wind (EG 55 kt)   |
|  | 07/22/20 14:20 EST |                   | 0                   | Source: 911 Call Center        |
| Numerous trees down between Reston and Great Falls, including near the intersection of Utterback Store Road and Farm Road, VA-681 Walker Road and VA-603 Beach Mill Road, VA-7 Leesburg Pike and Trotting Horse Lane, and Browns Mill Road near Pennycrest Lane. |                    |                   |                     |                                |
| <b>FAIRFAX COUNTY --- 1.3 SW CLARKS CROSSING [38.91, -77.31]</b>   |                    |                   |                     |                                |
|  | 07/22/20 14:25 EST |                   | 30K                 | Thunderstorm Wind (EG 60 kt)   |
|  | 07/22/20 14:25 EST |                   | 0                   | Source: 911 Call Center        |
| Numerous large trees down between Reston and Oakton, including near the intersection of VA-672 Vale Road and Easie Street, near the intersection of VA-672 Vale Road and Berryland Drive, and on Miller Road at Windsong Drive.                                  |                    |                   |                     |                                |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location  | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details         |
|---|--------------------|-------------------|---------------------|--------------------------------|
| <b>FAIRFAX COUNTY --- 1.5 SSE KENMORE [38.93, -77.26]</b>   |                    |                   |                     |                                |
|   | 07/22/20 14:30 EST |                   | 10K                 | Thunderstorm Wind (EG 55 kt)   |
|   | 07/22/20 14:30 EST |                   | 0                   | Source: 911 Call Center        |
| Numerous trees down near Tysons Corner/McLean, including near the intersection of Besley Road and Bois Avenue, on Old Dominion Drive near Providence Terrace, on VA-193 Georgetown Pike near VA-684 Spring Hill Road, and on Idylwood Court near Idylwood Road. |                    |                   |                     |                                |
| <b>FAIRFAX COUNTY --- 0.5 NNW ILDA [38.84, -77.25]</b>  |                    |                   |                     |                                |
|   | 07/22/20 14:35 EST |                   | 10K                 | Thunderstorm Wind (EG 55 kt)   |
|   | 07/22/20 14:35 EST |                   | 0                   | Source: 911 Call Center        |
| Numerous trees down in/near Annandale, including on VA-651 Guinea Road between VA-236 Little River Turnpike and Littleton Street.   |                    |                   |                     |                                |
| <b>PRINCE WILLIAM COUNTY --- 1.3 WSW WOODBRIDGE [38.64, -77.27]</b>   |                    |                   |                     |                                |
|   | 07/22/20 14:40 EST |                   | 15K                 | Thunderstorm Wind (EG 55 kt)   |
|   | 07/22/20 14:40 EST |                   | 0                   | Source: 911 Call Center        |
| Numerous trees down in the Woodbridge and Dale City area.   |                    |                   |                     |                                |
| <b>STAFFORD COUNTY --- 1.0 SSW RUBY [38.49, -77.53]</b>   |                    |                   |                     |                                |
|   | 07/22/20 14:49 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 14:49 EST |                   | 0                   | Source: 911 Call Center        |
| A tree was blown down on Rock Hill Church Road.   |                    |                   |                     |                                |
| <b>STAFFORD COUNTY --- 2.0 SSW MOUNTAIN VIEW [38.45, -77.49]</b>  |                    |                   |                     |                                |
|   | 07/22/20 14:49 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 14:49 EST |                   | 0                   | Source: 911 Call Center        |
| A tree was blown down on Mountain View Road near Stefanga Road.   |                    |                   |                     |                                |
| <b>ALEXANDRIA (C) COUNTY --- 0.3 WNW ALEXANDRIA [38.82, -77.09]</b>   |                    |                   |                     |                                |
|   | 07/22/20 14:50 EST |                   | 20K                 | Thunderstorm Wind (EG 55 kt)   |
|   | 07/22/20 14:50 EST |                   | 0                   | Source: 911 Call Center        |
| Multiple trees were blown down in/near the City of Alexandria, including a few on cars.   |                    |                   |                     |                                |
| <b>ARLINGTON COUNTY --- 1.8 SSE SOUTH WASHINGTON [38.85, -77.03]</b>  |                    |                   |                     |                                |
|   | 07/22/20 14:54 EST |                   | 0                   | Thunderstorm Wind (MG 50 kt)   |
|   | 07/22/20 14:54 EST |                   | 0                   | Source: ASOS                   |
| A wind gust of 50 knots (58 MPH) was measured by the ASOS as Ronald Reagan Washington National Airport (KDCA).  |                    |                   |                     |                                |
| <b>STAFFORD COUNTY --- 10.5 SSW BERA [38.22, -77.63]</b>  |                    |                   |                     |                                |
|   | 07/22/20 14:55 EST |                   | 5K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 14:55 EST |                   | 0                   | Source: 911 Call Center        |
| Multiple trees blew down on Brock Road including one near Stafford Lane.  |                    |                   |                     |                                |
| <b>STAFFORD COUNTY --- 0.4 W ARKENDALE [38.43, -77.34]</b>  |                    |                   |                     |                                |
|   | 07/22/20 14:58 EST |                   | 6K                  | Thunderstorm Wind (EG 55 kt)   |
|   | 07/22/20 14:58 EST |                   | 0                   | Source: 911 Call Center        |
| Multiple trees were blown down in the Widewater area.   |                    |                   |                     |                                |
| <b>STAFFORD COUNTY --- 3.4 ESE BLOOKE [38.36, -77.33]</b>   |                    |                   |                     |                                |
|   | 07/22/20 15:12 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|   | 07/22/20 15:12 EST |                   | 0                   | Source: Department of Highways |
| A tree was blown down on Brooke Road near Marlborough Point Road.   |                    |                   |                     |                                |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|-----------|-------------------|---------------------|------------------------|
|----------|-----------|-------------------|---------------------|------------------------|

An upper-level trough interacted with a stalled surface front draped over the Mid-Atlantic resulting in scattered to numerous showers and thunderstorms developing in the lee of the Appalachians Mountains as early as midday. The storms coalesced into a bow echo moved eastward across central Maryland and northern Virginia (including the DC metro) during the mid afternoon. Thunderstorms exited the area by nightfall.

**FAIRFAX COUNTY --- 1.3 WNW CLARKS CROSSING [38.93, -77.32], 1.3 WNW CLARKS CROSSING [38.93, -77.32], 1.2 WNW CLARKS CROSSING [38.93, -77.32], 1.2 WNW CLARKS CROSSING [38.93, -77.32]**

|                    |   |                                 |
|--------------------|---|---------------------------------|
| 07/22/20 16:00 EST | 0 | Flash Flood (due to Heavy Rain) |
| 07/22/20 17:30 EST | 0 | Source: 911 Call Center         |

Lawyers Road around Hunter Station Road was closed due to high water.

**FAIRFAX COUNTY --- 1.9 SSE CENTREVILLE [38.81, -77.40], 1.9 SSE CENTREVILLE [38.81, -77.40], 1.9 SSE CENTREVILLE [38.81, -77.40], 1.9 SSE CENTREVILLE [38.81, -77.40]**

|                    |   |                                 |
|--------------------|---|---------------------------------|
| 07/22/20 16:00 EST | 0 | Flash Flood (due to Heavy Rain) |
| 07/22/20 17:30 EST | 0 | Source: 911 Call Center         |

Spingdale Estates Road was closed around the 11000 Block due to high water.

**FAIRFAX COUNTY --- 0.8 SSE BURKE [38.79, -77.27], 0.9 SSE BURKE [38.79, -77.27], 0.9 SSE BURKE [38.79, -77.26], 0.8 SSE BURKE [38.79, -77.27]**

|                    |   |                                 |
|--------------------|---|---------------------------------|
| 07/22/20 16:05 EST | 0 | Flash Flood (due to Heavy Rain) |
| 07/22/20 17:30 EST | 0 | Source: 911 Call Center         |

Burke Road around Mill Cove Court was closed due to high water.

**FAIRFAX COUNTY --- 1.0 WSW TREMONT [38.85, -77.24], 1.0 WSW TREMONT [38.85, -77.24], 1.0 WSW TREMONT [38.85, -77.24], 1.0 WSW TREMONT [38.85, -77.24]**

|                    |   |                                 |
|--------------------|---|---------------------------------|
| 07/22/20 16:36 EST | 0 | Flash Flood (due to Heavy Rain) |
| 07/22/20 17:30 EST | 0 | Source: River/Stream Gage       |

The water level rose above flood stage of 251.5 at Strathmeade Springs along the Accotink Creek, and it crested at 252.36 feet at 5:30 PM EST. The water remained above flood stage until 6:26 PM EST.

Woodburn Road was covered by approximately six inches of water at its lowest point.

**FAIRFAX COUNTY --- 0.5 ENE CROWELLS CORNER [38.95, -77.29], 0.6 ENE CROWELLS CORNER [38.95, -77.29], 0.5 ENE CROWELLS CORNER [38.95, -77.29], 0.5 ENE CROWELLS CORNER [38.95, -77.29]**

|                    |   |                           |
|--------------------|---|---------------------------|
| 07/22/20 17:13 EST | 0 | Flood (due to Heavy Rain) |
| 07/22/20 22:26 EST | 0 | Source: River/Stream Gage |

The water level rose above flood stage of 195.0 feet along Difficult Run at Wolf Trap. The water level crested at 195.51 feet at 8:20 PM EST on July 22nd. Six inches of water covered Browns Mill Road at its lowest point.

**FAIRFAX COUNTY --- 0.8 NNW CLARKS CROSSING [38.93, -77.31], 0.8 NNW CLARKS CROSSING [38.93, -77.30], 0.7 NNW CLARKS CROSSING [38.93, -77.30], 0.7 NNW CLARKS CROSSING [38.93, -77.31]**

|                    |   |                                |
|--------------------|---|--------------------------------|
| 07/22/20 17:49 EST | 0 | Flood (due to Heavy Rain)      |
| 07/22/20 19:49 EST | 0 | Source: Department of Highways |

Hunter Mill Road was closed due to high water near Difficult Run.

**A hot and humid airmass triggered showers and thunderstorms, and some produced heavy rainfall that led to instances of flooding and flash flooding.**

**(VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA, (VA-Z057) KING GEORGE**

|                    |   |      |
|--------------------|---|------|
| 07/23/20 11:00 EST | 0 | Heat |
| 07/23/20 19:00 EST | 0 |      |

A ridge of high pressure developed over the eastern United States and western Atlantic, allowing a southwesterly flow to bring plenty of tropical air northward. High temperatures plus high humidity resulted in heat indices in the 100-110 degree range.

**ALBEMARLE COUNTY --- 2.6 SE RED HILL [37.94, -78.59]**

## Storm Data and Unusual Weather Phenomena - July 2020

| Location   | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details          |
|--|--------------------|-------------------|---------------------|---------------------------------|
|  | 07/23/20 17:24 EST |                   | 5K                  | Thunderstorm Wind (EG 50 kt)    |
|  | 07/23/20 17:24 EST |                   | 0                   | Source: 911 Call Center         |
| Several trees were blown down in the North Garden area.  |                    |                   |                     |                                 |
| <hr/>  |                    |                   |                     |                                 |
| <b>ALBEMARLE COUNTY --- 2.4 NW SCOTTSVILLE [37.83, -78.53]</b>   |                    |                   |                     |                                 |
|  | 07/23/20 17:38 EST |                   | 5K                  | Thunderstorm Wind (EG 50 kt)    |
|  | 07/23/20 17:38 EST |                   | 0                   | Source: 911 Call Center         |
| Several trees were blown down near Scottsville.  |                    |                   |                     |                                 |
| <hr/>  |                    |                   |                     |                                 |
| <b>ALBEMARLE COUNTY --- 1.8 ESE SIMEON [37.97, -78.42]</b>   |                    |                   |                     |                                 |
|  | 07/23/20 17:40 EST |                   | 5K                  | Thunderstorm Wind (EG 50 kt)    |
|  | 07/23/20 17:40 EST |                   | 0                   | Source: 911 Call Center         |
| Several trees were blown down southeast of the City of Charlottesville.  |                    |                   |                     |                                 |
| <hr/>  |                    |                   |                     |                                 |
| <b>FAIRFAX COUNTY --- 1.1 S VALE [38.86, -77.35]</b>   |                    |                   |                     |                                 |
|  | 07/23/20 19:22 EST |                   | 3K                  | Thunderstorm Wind (EG 50 kt)    |
|  | 07/23/20 19:22 EST |                   | 0                   | Source: 911 Call Center         |
| Several trees and large branches were blown down (at least one on a power line) near the north side of the I-66 Custis Memorial Parkway and US-50 Lee Jackson Memorial Highway interchange.  |                    |                   |                     |                                 |
| <hr/>  |                    |                   |                     |                                 |
| <b>FAIRFAX COUNTY --- 1.1 E COLCHESTER [38.67, -77.21]</b>   |                    |                   |                     |                                 |
|  | 07/23/20 20:01 EST |                   | 5K                  | Thunderstorm Wind (EG 50 kt)    |
|  | 07/23/20 20:01 EST |                   | 0                   | Source: 911 Call Center         |
| Trees and wires were blown down near Lortn and Springfield, including in the 10600 block of Belmont Boulevard.   |                    |                   |                     |                                 |
| <hr/>  |                    |                   |                     |                                 |
| <b>PRINCE WILLIAM COUNTY --- 0.3 NNE DALE CITY [38.62, -77.30]</b>   |                    |                   |                     |                                 |
|  | 07/23/20 20:57 EST |                   | 3K                  | Thunderstorm Wind (EG 50 kt)    |
|  | 07/23/20 20:57 EST |                   | 0                   | Source: 911 Call Center         |
| Tree damage was reported in the southeastern part of Prince William County, including near the intersection of Edgewood Drive and Northgate Drive in the Woodbridge area.  |                    |                   |                     |                                 |
| <b>A few severe thunderstorms developed along a weak, stalled front.</b>   |                    |                   |                     |                                 |
| <hr/>  |                    |                   |                     |                                 |
| <b>PRINCE WILLIAM COUNTY --- 0.3 W WOODBRIDGE [38.65, -77.26], 0.4 WNW WOODBRIDGE [38.65, -77.26], 1.0 N WOODBRIDGE [38.66, -77.25], 0.9 NNE WOODBRIDGE [38.66, -77.24]</b>  |                    |                   |                     |                                 |
|  | 07/23/20 20:05 EST |                   | 0                   | Flood (due to Heavy Rain)       |
|  | 07/23/20 22:05 EST |                   | 0                   | Source: State Official          |
| US Route 1 (Jefferson Davis Highway) was closed due to flooding at Gordon Boulevard and Marys Way.   |                    |                   |                     |                                 |
| <hr/>  |                    |                   |                     |                                 |
| <b>ALEXANDRIA (C) COUNTY --- 1.4 ESE ALEXANDRIA [38.81, -77.06], 1.4 ESE ALEXANDRIA [38.81, -77.06], 1.4 ESE ALEXANDRIA [38.81, -77.06], 1.4 ESE ALEXANDRIA [38.81, -77.06]</b>  |                    |                   |                     |                                 |
|  | 07/23/20 20:23 EST |                   | 0                   | Flood (due to Heavy Rain)       |
|  | 07/23/20 22:23 EST |                   | 0                   | Source: Trained Spotter         |
| Spotter reported knee high water pooling over sidewalks/curbs at intersection of Mount Vernon and East Maple Street. Road was impassable.  |                    |                   |                     |                                 |
| <hr/>  |                    |                   |                     |                                 |
| <b>PRINCE WILLIAM COUNTY --- 0.7 SSE CHERRY HILL [38.56, -77.26], 1.2 S CHERRY HILL [38.55, -77.27], 1.2 S CHERRY HILL [38.55, -77.27], 0.9 SSE CHERRY HILL [38.56, -77.26], 0.6 SE CHERRY HILL [38.56, -77.26], 0.4 ENE CHERRY HILL [38.57, -77.26]</b> |                    |                   |                     |                                 |
|  | 07/23/20 20:49 EST |                   | 50K                 | Flash Flood (due to Heavy Rain) |
|  | 07/23/20 22:49 EST |                   | 0                   | Source: State Official          |
| Several vehicles were submerged in high water on Cherry Hill Road near the CSX railroad tracks. Water rescues were required.   |                    |                   |                     |                                 |
| <hr/>  |                    |                   |                     |                                 |
| <b>ARLINGTON COUNTY --- 1.2 WSW ROSSLYN [38.87, -77.10], 1.5 WSW ROSSLYN [38.87, -77.10], 1.4 WSW ROSSLYN [38.87, -77.10], 1.1 SW ROSSLYN [38.87, -77.10]</b>  |                    |                   |                     |                                 |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details         |
|----------|--------------------|-------------------|---------------------|--------------------------------|
|          | 07/23/20 20:51 EST |                   | 0                   | Flood (due to Heavy Rain)      |
|          | 07/23/20 22:51 EST |                   | 0                   | Source: Department of Highways |

US Route 50 (Arlington Boulevard) ramp to Virginia Route 120 (Glebe Road) was closed due to flooding.

**A hot and humid airmass along with a slow moving boundary led to some showers and thunderstorms. Weak winds aloft caused storms to move slowly, and this led to some instances of flooding and flash flooding.**

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### FAUQUIER COUNTY --- 1.1 WNW OPAL [38.63, -77.82]

|                    |    |                              |
|--------------------|----|------------------------------|
| 07/24/20 14:37 EST | 6K | Thunderstorm Wind (EG 50 kt) |
| 07/24/20 14:37 EST | 0  | Source: 911 Call Center      |

A large tree was blown down blocking the roadway near the intersection of VA-687 Opal Road and VA-651 Lees Mill Road. Several other trees and wires were blown down in the area.

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### CULPEPER COUNTY --- 1.6 NW STEVENSBURG [38.47, -77.90]

|                    |    |                              |
|--------------------|----|------------------------------|
| 07/24/20 15:08 EST | 3K | Thunderstorm Wind (EG 50 kt) |
| 07/24/20 15:08 EST | 0  | Source: 911 Call Center      |

Trees were blown down near the intersection of VA-663 Stevensburg Road and VA-666 Greens Corner Road.

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### CULPEPER COUNTY --- 0.3 SE LIGNUM [38.42, -77.83]

|                    |    |                              |
|--------------------|----|------------------------------|
| 07/24/20 15:19 EST | 5K | Thunderstorm Wind (EG 50 kt) |
| 07/24/20 15:19 EST | 0  | Source: 911 Call Center      |

Multiple trees were blown down near the intersection of VA-3 Germana Highway and VA-647 Batna Road/Revercomb Road. Trees and wires were blown down near the intersection of Mountain View Farm Road and VA-663 Batna Road.

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### ORANGE COUNTY --- 1.9 ESE SCUFFLETOWN [38.24, -78.27]

|                    |    |                              |
|--------------------|----|------------------------------|
| 07/24/20 16:12 EST | 1K | Thunderstorm Wind (EG 50 kt) |
| 07/24/20 16:12 EST | 0  | Source: 911 Call Center      |

A tree was blown down near the intersection of VA-609 Scuffletown Road and VA-644 Ridge Road/Blue Hill Drive.

**A few isolated severe thunderstorms developed over central Virginia and near Baltimore.**

---

### (VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER

|                    |   |           |
|--------------------|---|-----------|
| 07/25/20 01:00 EST | 0 | Dense Fog |
| 07/25/20 08:00 EST | 0 |           |

**Weak high pressure developed over the north-central Virginia Piedmont with a very moist air mass in place. Visibility was around one quarter mile or less in spots. This caused dense fog to develop early in the morning. The fog dissipated after sunrise.**

---

### KING GEORGE COUNTY --- 0.7 E FAIRVIEW BEACH [38.33, -77.24]

|                    |    |                                |
|--------------------|----|--------------------------------|
| 07/28/20 15:37 EST | 3K | Thunderstorm Wind (EG 50 kt)   |
| 07/28/20 15:37 EST | 0  | Source: Department of Highways |

Tree damage was reported near King George, including a tree that was blown down blocking VA-1010 10th Street near Potomac Avenue.

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### ORANGE COUNTY --- 0.2 ESE RHOADESVILLE [38.27, -77.92]

|                    |    |                              |
|--------------------|----|------------------------------|
| 07/28/20 16:50 EST | 5K | Thunderstorm Wind (EG 50 kt) |
| 07/28/20 16:50 EST | 0  | Source: 911 Call Center      |

A tree was blown down at the intersection of VA-624 Tower Road and VA-650 Independence Road. A tree was blown down on Houseworth Street in Orange. A tree was blown down at the intersection of Tomahawk Creek Road and Old Gordonsville Road.

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### SPOTSYLVANIA COUNTY --- 2.1 SE CHANCELLOR [38.25, -77.57]

|                    |    |                                |
|--------------------|----|--------------------------------|
| 07/28/20 17:30 EST | 1K | Thunderstorm Wind (EG 50 kt)   |
| 07/28/20 17:30 EST | 0  | Source: Department of Highways |

A tree was blown down near the intersection of Piedmont Drive and Reindeer Court.

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### SPOTSYLVANIA COUNTY --- 1.2 ESE POST OAK [38.16, -77.65]

## Storm Data and Unusual Weather Phenomena - July 2020

| Location | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details       |
|----------|--------------------|-------------------|---------------------|------------------------------|
|          | 07/28/20 17:37 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt) |
|          | 07/28/20 17:37 EST |                   | 0                   | Source: 911 Call Center      |

A tree was blown down on VA-208 Courthouse Road near Spotsylvania High School.

### STAFFORD COUNTY --- 1.3 E BLOOKE [38.38, -77.36]

|  |                    |  |    |                                |
|--|--------------------|--|----|--------------------------------|
|  | 07/28/20 17:47 EST |  | 2K | Thunderstorm Wind (EG 50 kt)   |
|  | 07/28/20 17:47 EST |  | 0  | Source: Department of Highways |

Trees were blown down blocking the roadway near the intersection of VA-608 Brooke Road and VA-609 Raven Road.

### SPOTSYLVANIA COUNTY --- 0.8 NE FOUR MILE FORK [38.26, -77.47]

|  |                    |  |    |                              |
|--|--------------------|--|----|------------------------------|
|  | 07/28/20 17:49 EST |  | 1K | Thunderstorm Wind (EG 50 kt) |
|  | 07/28/20 17:49 EST |  | 0  | Source: 911 Call Center      |

A tree was blown down at the intersection of Lee Drive and VA-638 Landsdowne Road.

### STAFFORD COUNTY --- 0.3 W WHITE OAK [38.30, -77.38]

|  |                    |  |    |                              |
|--|--------------------|--|----|------------------------------|
|  | 07/28/20 17:49 EST |  | 1K | Thunderstorm Wind (EG 50 kt) |
|  | 07/28/20 17:49 EST |  | 0  | Source: 911 Call Center      |

A tree was blown down at the intersection of VA-218 White Oak Road and Caisson Road.

### SPOTSYLVANIA COUNTY --- 1.7 NW MASSAPONAX [38.20, -77.53]

|  |                    |  |    |                                |
|--|--------------------|--|----|--------------------------------|
|  | 07/28/20 17:50 EST |  | 4K | Thunderstorm Wind (EG 50 kt)   |
|  | 07/28/20 17:50 EST |  | 0  | Source: Department of Highways |

VA-608 Massaponax Church Road was closed in both directions due to downed trees near VA-639 Smith Station Road.

### SPOTSYLVANIA COUNTY --- 1.4 WSW NEW POST [38.22, -77.43]

|  |                    |  |    |                              |
|--|--------------------|--|----|------------------------------|
|  | 07/28/20 17:56 EST |  | 2K | Thunderstorm Wind (EG 50 kt) |
|  | 07/28/20 17:56 EST |  | 0  | Source: 911 Call Center      |

A tree was blown down at the intersection of VA-609 Jim Morris Road and US-17 Mills Drive.

**A couple of severe thunderstorms developed near the Fredericksburg area.**

### KING GEORGE COUNTY --- 0.2 S AMBAR [38.32, -77.18]

|  |                    |  |    |                                |
|--|--------------------|--|----|--------------------------------|
|  | 07/31/20 15:57 EST |  | 5K | Thunderstorm Wind (EG 50 kt)   |
|  | 07/31/20 15:57 EST |  | 0  | Source: Department of Highways |

Several trees were blown down along VA-219 Caledon Road between Cottonwood Court and Potomac Forest Drive as well as in the vicinity of Fairview Drive.

### PAGE COUNTY --- 0.4 E LEAKSVILLE [38.63, -78.52]

|  |                    |  |    |                              |
|--|--------------------|--|----|------------------------------|
|  | 07/31/20 16:25 EST |  | 3K | Thunderstorm Wind (EG 50 kt) |
|  | 07/31/20 16:25 EST |  | 0  | Source: 911 Call Center      |

Several trees were reported blown down in the Leaksville Road area.

### PAGE COUNTY --- 0.9 ESE LURAY [38.66, -78.46]

|  |                    |  |    |                              |
|--|--------------------|--|----|------------------------------|
|  | 07/31/20 16:30 EST |  | 1K | Thunderstorm Wind (EG 50 kt) |
|  | 07/31/20 16:30 EST |  | 0  | Source: 911 Call Center      |

A tree was blown down on Ayler Gurbbs Avenue near Gray Drive.

### KING GEORGE COUNTY --- 0.9 NNW WEEDONVILLE [38.29, -77.18]

|  |                    |  |     |                              |
|--|--------------------|--|-----|------------------------------|
|  | 07/31/20 17:51 EST |  | 15K | Thunderstorm Wind (EG 55 kt) |
|  | 07/31/20 17:51 EST |  | 0   | Source: 911 Call Center      |

Numerous trees were blown down in King George County, including near the intersection of VA-206 Dahlgren Road and VA-610 Indiantown Road, in the vicinity of Ducat Drive, Ernest Ellis Lane, Green Arbor Drive, and Locust Dale Lane.

## Storm Data and Unusual Weather Phenomena - July 2020

| Location   | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details         |
|--|--------------------|-------------------|---------------------|--------------------------------|
| <b>FAIRFAX COUNTY --- 0.6 WSW FAIRFAX STATION [38.80, -77.33]</b>  |                    |                   |                     |                                |
|  | 07/31/20 18:14 EST |                   | 6K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/31/20 18:14 EST |                   | 0                   | Source: 911 Call Center        |
| A tree blew down in the 5000 block of Hannora Lane. Trees also blew down on O'Hara Court Drive, and on VA-123 Ox Road near Clara Barton Drive.   |                    |                   |                     |                                |
| <b>FAIRFAX COUNTY --- 0.4 E LORTON [38.70, -77.21]</b>   |                    |                   |                     |                                |
|  | 07/31/20 18:18 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/31/20 18:18 EST |                   | 0                   | Source: Department of Highways |
| Tree damage was reported near Lorton, including on US-1 Richmond Highway near Lorton Park.   |                    |                   |                     |                                |
| <b>FAIRFAX COUNTY --- 3.7 WNW GREAT FALLS [39.02, -77.33]</b>  |                    |                   |                     |                                |
|  | 07/31/20 18:48 EST |                   | 5K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/31/20 18:48 EST |                   | 0                   | Source: Department of Highways |
| Several trees were blown down near Great Falls and Reston, including on Richmond Valley Drive at Rich Meadow Drive, and near the intersection of VA-603 Beach Mill Road and Utterback Store Road in Great Falls, and on North Shore Drive in Reston. |                    |                   |                     |                                |
| <b>STAFFORD COUNTY --- 1.8 N STAFFORD [38.45, -77.39]</b>  |                    |                   |                     |                                |
|  | 07/31/20 18:52 EST |                   | 5K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/31/20 18:52 EST |                   | 0                   | Source: Department of Highways |
| Trees were blown down on Coal Landing Road. A tree was blown down on US-1 Jefferson Davis Highway near Jumping Branch Road.  |                    |                   |                     |                                |
| <b>LOUDOUN COUNTY --- 1.0 NNE BROAD RUN FARMS [39.04, -77.36]</b>  |                    |                   |                     |                                |
|  | 07/31/20 18:55 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/31/20 18:55 EST |                   | 0                   | Source: Department of Highways |
| Tree damage was reported in Countryside, including on VA-1582 Algonkian Parkway near Lowes Island Boulevard.   |                    |                   |                     |                                |
| <b>FAIRFAX COUNTY --- 0.9 NW CHESTERBROOK WOODS [38.94, -77.18]</b>  |                    |                   |                     |                                |
|  | 07/31/20 19:35 EST |                   | 3K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/31/20 19:35 EST |                   | 0                   | Source: Department of Highways |
| A couple of trees were blown down in McLean, including near the intersection of Elm Street and Chelsea Road, and on Old Gate Court.  |                    |                   |                     |                                |
| <b>A stalled front ignited scattered strong to severe thunderstorms across east-central Virginia into central/southern Maryland.</b>   |                    |                   |                     |                                |
| <b>WEST VIRGINIA, East</b>   |                    |                   |                     |                                |
| <b>GRANT COUNTY --- 1.8 WSW ROUGH RUN [38.89, -79.15]</b>  |                    |                   |                     |                                |
|  | 07/06/20 14:36 EST |                   | 5K                  | Thunderstorm Wind (EG 55 kt)   |
|  | 07/06/20 14:36 EST |                   | 0                   | Source: 911 Call Center        |
| Several trees were blown down along South Mill Creek Road in southern Grant County; some were blocking the roadway.  |                    |                   |                     |                                |
| <b>JEFFERSON COUNTY --- 1.7 NNE CHARLES TOWN ARPT [39.34, -77.82]</b>  |                    |                   |                     |                                |
|  | 07/06/20 17:43 EST |                   | 50K                 | Thunderstorm Wind (EG 65 kt)   |
|  | 07/06/20 17:43 EST |                   | 0                   | Source: Emergency Manager      |
| Numerous trees and power lines were blown down in Shenandoah Junction, mainly along Daniels Road and Shenandoah Junction Road. Some trees were snapped.  |                    |                   |                     |                                |
| <b>JEFFERSON COUNTY --- 0.5 ENE BOLIVAR [39.32, -77.74]</b>  |                    |                   |                     |                                |
|  | 07/06/20 17:52 EST |                   | 5K                  | Thunderstorm Wind (EG 50 kt)   |
|  | 07/06/20 17:52 EST |                   | 0                   | Source: 911 Call Center        |
| Multiple trees and power lines blew down in the Harpers Ferry area.  |                    |                   |                     |                                |

## Storm Data and Unusual Weather Phenomena - July 2020

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|----------|-----------|-------------------|---------------------|------------------------|
|----------|-----------|-------------------|---------------------|------------------------|

An upper-level disturbance triggered scattered to numerous showers and thunderstorms. The very unstable lower-level air mass resulted in an environment conducive to downburst winds, some of which were significant.

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**MINERAL COUNTY --- 0.8 NE LIMESTONE [39.44, -78.96]**

|  |                    |  |    |                              |
|--|--------------------|--|----|------------------------------|
|  | 07/07/20 15:05 EST |  | 3K | Thunderstorm Wind (EG 50 kt) |
|  | 07/07/20 15:05 EST |  | 0  | Source: 911 Call Center      |

Two trees were blown down near the intersection of Waxler Road and Fort Ashby Road.

An isolated severe thunderstorm developed over Mineral County, West Virginia.

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**(WV-Z055) HARDY, (WV-Z502) EASTERN GRANT, (WV-Z504) EASTERN MINERAL**

|  |                    |  |   |           |
|--|--------------------|--|---|-----------|
|  | 07/08/20 04:30 EST |  | 0 | Dense Fog |
|  | 07/08/20 07:47 EST |  | 0 |           |

Weak high pressure and light winds plus very moist air allowed dense fog to develop overnight across the valleys of eastern West Virginia. Visibility was around one quarter mile or less in spots. The fog dissipated after sunrise.

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**HARDY COUNTY --- 1.1 NNE TAYLOR [39.06, -78.97]**

|  |                    |  |     |                              |
|--|--------------------|--|-----|------------------------------|
|  | 07/10/20 18:07 EST |  | 12K | Thunderstorm Wind (EG 55 kt) |
|  | 07/10/20 18:07 EST |  | 0   | Source: 911 Call Center      |

Multiple trees and large limbs were blown down in Moorefield.

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**HARDY COUNTY --- 0.4 N OLDFIELDS [39.14, -78.95]**

|  |                    |  |    |                              |
|--|--------------------|--|----|------------------------------|
|  | 07/10/20 18:09 EST |  | 6K | Thunderstorm Wind (EG 50 kt) |
|  | 07/10/20 18:09 EST |  | 0  | Source: 911 Call Center      |

Multiple trees were blown down in Old Fields.

A few severe thunderstorms developed over western Virginia and eastern West Virginia during the early evening hours of Friday, July 10th, 2020.

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**MINERAL COUNTY --- 0.8 NW MARYLAND JCT [39.64, -78.78]**

|  |                    |  |    |                              |
|--|--------------------|--|----|------------------------------|
|  | 07/16/20 14:54 EST |  | 1K | Thunderstorm Wind (EG 50 kt) |
|  | 07/16/20 14:54 EST |  | 0  | Source: 911 Call Center      |

Tree damage was reported near Ridgeley, including a tree blown into the roadway in the 200 block of Miller Road.

A couple isolated severe thunderstorms developed over eastern West Virginia and western Maryland.

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**(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (WV-Z052) BERKELEY, (WV-Z053) JEFFERSON, (WV-Z055) HARDY, (WV-Z502) EASTERN GRANT, (WV-Z504) EASTERN MINERAL**

|  |                    |  |   |      |
|--|--------------------|--|---|------|
|  | 07/19/20 11:00 EST |  | 0 | Heat |
|  | 07/19/20 19:00 EST |  | 0 |      |

A ridge of high pressure developed over the eastern United States and western Atlantic, allowing a southwesterly flow to bring plenty of tropical air northward. High temperatures plus high humidity resulted in heat indices in the 100-105 degree range.

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**(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (WV-Z052) BERKELEY, (WV-Z053) JEFFERSON, (WV-Z055) HARDY, (WV-Z502) EASTERN GRANT, (WV-Z504) EASTERN MINERAL**

|  |                    |  |   |      |
|--|--------------------|--|---|------|
|  | 07/20/20 11:00 EST |  | 0 | Heat |
|  | 07/20/20 19:00 EST |  | 0 |      |

A ridge of high pressure developed over the eastern United States and western Atlantic, allowing a southwesterly flow to bring plenty of tropical air northward. High temperatures plus high humidity resulted in heat indices in the 100-105 degree range.

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**MORGAN COUNTY --- BERKELEY SPGS [39.63, -78.23]**

|  |                    |  |    |                              |
|--|--------------------|--|----|------------------------------|
|  | 07/21/20 15:45 EST |  | 2K | Thunderstorm Wind (EG 50 kt) |
|  | 07/21/20 15:45 EST |  | 0  | Source: 911 Call Center      |

Trees were blown down near the intersection of River Road and Grape Hill Drive.



## Storm Data and Unusual Weather Phenomena - July 2020

| Location  | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details       |
|---|--------------------|-------------------|---------------------|------------------------------|
| <b>HAMPSHIRE COUNTY --- 0.7 SE HANGING ROCK [39.26, -78.54]</b>   |                    |                   |                     |                              |
|   | 07/21/20 16:18 EST |                   | 3K                  | Thunderstorm Wind (EG 50 kt) |
|   | 07/21/20 16:18 EST |                   | 0                   | Source: 911 Call Center      |
| Multiple trees blew down in the 9000 block of US-50 Northwestern Pike in Augusta.   |                    |                   |                     |                              |
| <b>Scattered strong to severe thunderstorms developed along a stalled front draped across the Middle Atlantic, peaking during the early evening hours.</b>  |                    |                   |                     |                              |
| <b>PENDLETON COUNTY --- 1.5 ESE SUGAR GROVE [38.51, -79.29]</b>   |                    |                   |                     |                              |
|   | 07/22/20 10:58 EST |                   | 10K                 | Thunderstorm Wind (EG 50 kt) |
|   | 07/22/20 10:58 EST |                   | 0                   | Source: Broadcast Media      |
| A large tree blew down onto a house off off Reddish Knob Road.  |                    |                   |                     |                              |
| <b>HAMPSHIRE COUNTY --- 0.8 E CAPON BRIDGE [39.30, -78.44]</b>  |                    |                   |                     |                              |
|   | 07/22/20 11:37 EST |                   | 5K                  | Thunderstorm Wind (EG 50 kt) |
|   | 07/22/20 11:37 EST |                   | 0                   | Source: 911 Call Center      |
| Multiple trees were blown down in Capon Bridge.   |                    |                   |                     |                              |
| <b>HARDY COUNTY --- 2.0 S FISHER [39.02, -79.00]</b>  |                    |                   |                     |                              |
|   | 07/22/20 11:50 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt) |
|   | 07/22/20 11:50 EST |                   | 0                   | Source: 911 Call Center      |
| A tree was blown down on Summit Drive near US-220/WV-55.  |                    |                   |                     |                              |
| <b>GRANT COUNTY --- 0.3 NNE HISER [38.97, -79.12]</b>   |                    |                   |                     |                              |
|   | 07/22/20 12:15 EST |                   | 3K                  | Thunderstorm Wind (EG 50 kt) |
|   | 07/22/20 12:15 EST |                   | 0                   | Source: 911 Call Center      |
| Two trees were blown down on Point Drive near US-220 Franklin Pike.   |                    |                   |                     |                              |
| <b>HAMPSHIRE COUNTY --- 1.1 N CAPON SPGS [39.15, -78.48]</b>  |                    |                   |                     |                              |
|   | 07/22/20 12:28 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt) |
|   | 07/22/20 12:28 EST |                   | 0                   | Source: 911 Call Center      |
| A tree was blown down in the 400 block of Back Creek Road.  |                    |                   |                     |                              |
| <b>HARDY COUNTY --- 13.7 NNE WARDENSVILLE [39.27, -78.53]</b>   |                    |                   |                     |                              |
|   | 07/22/20 12:45 EST |                   | 1K                  | Thunderstorm Wind (EG 50 kt) |
|   | 07/22/20 12:45 EST |                   | 0                   | Source: 911 Call Center      |
| A tree was blown down in the 9100 block of US-50 Northwestern Pike.   |                    |                   |                     |                              |
| <b>JEFFERSON COUNTY --- 1.9 SE KABLETOWN [39.20, -77.82]</b>  |                    |                   |                     |                              |
|   | 07/22/20 13:08 EST |                   | 2K                  | Thunderstorm Wind (EG 50 kt) |
|   | 07/22/20 13:08 EST |                   | 0                   | Source: 911 Call Center      |
| Two trees were blown down near the intersection of Mission Road and Gate Five Road.   |                    |                   |                     |                              |
| <b>An upper-level trough interacted with a stalled surface front draped over the Mid-Atlantic resulting in scattered to numerous showers and thunderstorms developing in the lee of the Appalachians Mountains as early as midday. The storms coalesced into a bow echo moved eastward across central Maryland and northern Virginia (including the DC metro) during the mid afternoon. Thunderstorms exited the area by nightfall.</b> |                    |                   |                     |                              |