

Storm Data and Unusual Weather Phenomena - October 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ATLANTIC NORTH				
CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- LOWER HOOPERS ISLAND (HPR) [38.26, -76.18]				
	10/16/19 14:27 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	10/16/19 14:27 EST	0		Source: Buoy
Wind gusts in excess of 30 knots were reported.				
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- BISHOPS HEAD (BISM2) [38.22, -76.04]				
	10/16/19 14:36 EST	0		Marine Thunderstorm Wind (MG 35 kt)
	10/16/19 14:42 EST	0		Source: Buoy
A strong cold front passed through the waters on the 16th. Despite limited instability gusty showers were still able to mix down gusty winds from aloft.				
CHESAPEAKE BAY POLES IS TO SANDY PT MD COUNTY --- HART MILLER ISLAND (HRT) [39.25, -76.37]				
	10/27/19 09:46 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	10/27/19 09:46 EST	0		Source: Buoy
Wind gusts in excess of 30 knots were reported at Hart Miller Island.				
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- COBB POINT (COB) [38.24, -76.83]				
	10/27/19 10:21 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	10/27/19 10:41 EST	0		Source: Buoy
CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- LOWER HOOPERS ISLAND (HPR) [38.26, -76.18]				
	10/27/19 10:45 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	10/27/19 10:45 EST	0		Source: Buoy
Winds gusted to in excess of 30 knots at Lower Hoopers Island.				
PATUXENT RIVER TO BROOMES ISLAND MD COUNTY --- SOLOMONS ISLAND (SLIM2) [38.32, -76.45]				
	10/27/19 11:12 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	10/27/19 11:12 EST	0		Source: Buoy
Winds gusted to in excess of 30 knots at Solomons Island.				
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- BISHOPS HEAD (BISM2) [38.22, -76.04]				
	10/27/19 12:18 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	10/27/19 12:18 EST	0		Source: Buoy
Winds gusted to in excess of 30 knots at Bishops Head.				
A strong cold front passed through on the 27th. Despite limited instability, showers were able to mix down gusty winds from aloft.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.5 E BABAR POINT (BAB) [38.31, -77.00]				
	10/31/19 20:26 EST	0		Marine Thunderstorm Wind (MG 35 kt)
	10/31/19 20:51 EST	0		Source: Buoy
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- POTOMAC LIGHT 33 (LT3) [38.34, -76.99]				
	10/31/19 20:28 EST	0		Marine Thunderstorm Wind (MG 38 kt)
	10/31/19 21:08 EST	0		Source: Buoy
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- CUCKOLD CREEK (CCK) [38.31, -76.93]				
	10/31/19 20:29 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	10/31/19 20:29 EST	0		Source: Buoy
Winds gusted to in excess of 30 knots at Cuckold Creek.				

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TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- MONROE CREEK (MON) [38.23, -76.95]				
	10/31/19 20:29 EST	0		Marine Thunderstorm Wind (MG 35 kt)
	10/31/19 21:29 EST	0		Source: Buoy
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 3.3 ESE LEESYLVANIA STATE PARK (LSLVN) [38.64, -77.20]				
	10/31/19 20:30 EST	0		Marine Thunderstorm Wind (MG 42 kt)
	10/31/19 21:25 EST	0		Source: Buoy
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- (DCA)REAGAN NATIONAL AIRPORT [38.86, -77.03]				
	10/31/19 20:30 EST	0		Marine Thunderstorm Wind (MG 38 kt)
	10/31/19 21:26 EST	0		Source: ASOS
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- QUANTICO (KNYG) [38.51, -77.30]				
	10/31/19 21:21 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	10/31/19 21:21 EST	0		Source: AWOS
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- MONROE CREEK (MON) [38.23, -76.95]				
	10/31/19 21:34 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	10/31/19 22:14 EST	0		Source: Buoy
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- NATIONALS PARK (WSHNP) [38.87, -77.01]				
	10/31/19 21:34 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	10/31/19 22:14 EST	0		Source: Mesonet
Winds gusts in excess of 30 knots were observed at Nationals Park.				
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 2.0 ENE ALEXANDRIA (D4370) [38.76, -77.02]				
	10/31/19 21:39 EST	0		Marine Thunderstorm Wind (MG 40 kt)
	10/31/19 21:39 EST	0		Source: Mesonet
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- CUCKOLD CREEK (CCK) [38.31, -76.93]				
	10/31/19 21:44 EST	0		Marine Thunderstorm Wind (MG 50 kt)
	10/31/19 22:14 EST	0		Source: Buoy
CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- HART MILLER ISLAND (HRT) [39.25, -76.37]				
	10/31/19 21:46 EST	0		Marine Thunderstorm Wind (MG 49 kt)
	10/31/19 22:21 EST	0		Source: Buoy
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- POTOMAC LIGHT 33 (LT3) [38.34, -76.99]				
	10/31/19 21:48 EST	0		Marine Thunderstorm Wind (MG 44 kt)
	10/31/19 22:13 EST	0		Source: Buoy
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.5 E BABAR POINT (BAB) [38.31, -77.00]				
	10/31/19 21:51 EST	0		Marine Thunderstorm Wind (MG 47 kt)
	10/31/19 22:11 EST	0		Source: Buoy
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- BABAR POINT (BAB) [38.31, -77.03]				
	10/31/19 21:56 EST	0		Marine Thunderstorm Wind (MG 43 kt)
	10/31/19 22:11 EST	0		Source: Buoy
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.3 NNE BABAR POINT (BAB) [38.33, -77.02]				
	10/31/19 21:59 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	10/31/19 22:14 EST	0		Source: Buoy
CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- (KMTN)MARTIN STATE AIRPORT [39.33, -76.42]				
	10/31/19 22:01 EST	0		Marine Thunderstorm Wind (MG 38 kt)
	10/31/19 22:01 EST	0		Source: AWOS

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CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- SANDY POINT (SPT) [39.01, -76.40]				
	10/31/19 22:05 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	10/31/19 22:15 EST	0		Source: Buoy
CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- TOLCHESTER MD (TCBM2) [39.32, -76.25]				
	10/31/19 22:06 EST	0		Marine Thunderstorm Wind (MG 53 kt)
	10/31/19 22:30 EST	0		Source: Buoy
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- POINT LOOKOUT (PTL) [38.04, -76.32]				
	10/31/19 22:09 EST	0		Marine Thunderstorm Wind (MG 47 kt)
	10/31/19 23:34 EST	0		Source: Buoy
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- (DCA)REAGAN NATIONAL AIRPORT [38.86, -77.03]				
	10/31/19 22:10 EST	0		Marine Thunderstorm Wind (MG 37 kt)
	10/31/19 22:10 EST	0		Source: ASOS
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- LEWISSETTA (LWS) [38.00, -76.47]				
	10/31/19 22:12 EST	0		Marine Thunderstorm Wind (MG 42 kt)
	10/31/19 23:24 EST	0		Source: Buoy
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- LEWISSETTA MD (LWTV2) [38.00, -76.47]				
	10/31/19 22:12 EST	0		Marine Thunderstorm Wind (MG 42 kt)
	10/31/19 23:24 EST	0		Source: Buoy
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT (PPTM2) [38.13, -76.53]				
	10/31/19 22:12 EST	0		Marine Thunderstorm Wind (MG 46 kt)
	10/31/19 23:24 EST	0		Source: Buoy
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- COBB POINT (COB) [38.24, -76.83]				
	10/31/19 22:16 EST	0		Marine Thunderstorm Wind (MG 54 kt)
	10/31/19 23:01 EST	0		Source: Buoy
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.5 E BABAR POINT (BAB) [38.31, -77.00]				
	10/31/19 22:16 EST	0		Marine Thunderstorm Wind (MG 41 kt)
	10/31/19 22:36 EST	0		Source: Buoy
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- BABAR POINT (BAB) [38.31, -77.03]				
	10/31/19 22:16 EST	0		Marine Thunderstorm Wind (MG 41 kt)
	10/31/19 22:41 EST	0		Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- HERRING BAY (HRB) [38.73, -76.54]				
	10/31/19 22:18 EST	0		Marine Thunderstorm Wind (MG 40 kt)
	10/31/19 23:38 EST	0		Source: Buoy
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- POTOMAC LIGHT 33 (LT3) [38.34, -76.99]				
	10/31/19 22:18 EST	0		Marine Thunderstorm Wind (MG 41 kt)
	10/31/19 23:08 EST	0		Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- TOLLY POINT (TOL) [38.94, -76.44]				
	10/31/19 22:19 EST	0		Marine Thunderstorm Wind (MG 40 kt)
	10/31/19 23:44 EST	0		Source: Buoy
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.3 NNE BABAR POINT (BAB) [38.33, -77.02]				
	10/31/19 22:19 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	10/31/19 22:19 EST	0		Source: Buoy

Wind gusts in excess of 30 knots were observed at Tower 70.

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TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- MONROE CREEK (MON) [38.23, -76.95]				
	10/31/19 22:19 EST	0		Marine Thunderstorm Wind (MG 41 kt)
	10/31/19 22:29 EST	0		Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- KENT ISLAND (KNT) [38.92, -76.36]				
	10/31/19 22:20 EST	0		Marine Thunderstorm Wind (MG 38 kt)
	10/31/19 22:20 EST	0		Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- GREENBERRY POINT (GBY) [38.97, -76.46]				
	10/31/19 22:22 EST	0		Marine Thunderstorm Wind (MG 42 kt)
	10/31/19 23:42 EST	0		Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- GREENBERRY POINT (GBY) [38.97, -76.46]				
	10/31/19 22:25 EST	0		Marine Thunderstorm Wind (MG 43 kt)
	10/31/19 23:30 EST	0		Source: Buoy
EASTERN BAY COUNTY --- 4.3 SE US-50 (MD040) [38.92, -76.20]				
	10/31/19 22:30 EST	0		Marine Thunderstorm Wind (MG 40 kt)
	10/31/19 22:30 EST	0		Source: Buoy
CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 9.1 NNE GOOSSES REEF BUOY (44062) [38.68, -76.33]				
	10/31/19 22:36 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	10/31/19 23:36 EST	0		Source: Buoy
CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- GOOSSES REEF BUOY (44062) [38.56, -76.41]				
	10/31/19 22:36 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	10/31/19 23:42 EST	0		Source: Buoy
Gusts in excess of 30 knots were observed at Goose's Reef Buoy.				
PATUXENT RIVER TO BROOMES ISLAND MD COUNTY --- SOLOMONS ISLAND (SLIM2) [38.32, -76.45]				
	10/31/19 22:36 EST	0		Marine Thunderstorm Wind (MG 45 kt)
	10/31/19 23:00 EST	0		Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- (KW29)BAY BRIDGE AIRPORT [38.98, -76.33]				
	10/31/19 22:40 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	10/31/19 23:20 EST	0		Source: AWOS
Wind gusts in excess of 30 knots were observed at Bay Bridge Airport.				
EASTERN BAY COUNTY --- 4.3 SE US-50 (MD040) [38.92, -76.20]				
	10/31/19 22:46 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	10/31/19 23:31 EST	0		Source: Buoy
CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 2.6 S MID BAY BUOY [38.43, -76.39]				
	10/31/19 22:48 EST	0		Marine Thunderstorm Wind (MG 38 kt)
	10/31/19 23:42 EST	0		Source: Buoy
CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- PATUXENT RIVER ASOS (KNAK) [38.29, -76.41]				
	10/31/19 22:55 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	10/31/19 22:55 EST	0		Source: AWOS
CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- 42.2 N PATUXENT RIVER ASOS (KNAK) [38.90, -76.44]				
	10/31/19 23:00 EST	0		Marine Thunderstorm Wind (MG 51 kt)
	10/31/19 23:00 EST	0		Source: Buoy
PATUXENT RIVER TO BROOMES ISLAND MD COUNTY --- 0.2 SSW SOLOMONS ISLAND (SLIM2) [38.32, -76.45]				

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	10/31/19 23:00 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	10/31/19 23:00 EST		0	Source: Buoy
Gusts in excess of 30 knots were observed on Solomons Island.				
CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 7.6 S MID BAY BUOY [38.36, -76.40]				
	10/31/19 23:02 EST		0	Marine Thunderstorm Wind (MG 39 kt)
	10/31/19 23:12 EST		0	Source: Mesonet
CHOPTANK RIVER TO CAMBRIDGE MD AND THE LITTLE CHOPTANK RIVER COUNTY --- CAMBRIDGE (CAMM2) [38.57, -76.07]				
	10/31/19 23:06 EST		0	Marine Thunderstorm Wind (MG 40 kt)
	10/31/19 23:42 EST		0	Source: Mesonet
CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- LOWER HOOPERS ISLAND (HPR) [38.26, -76.18]				
	10/31/19 23:08 EST		0	Marine Thunderstorm Wind (MG 39 kt)
	10/31/19 23:28 EST		0	Source: Buoy
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- RACCOON POINT (RAC) [38.14, -75.79]				
	10/31/19 23:11 EST		0	Marine Thunderstorm Wind (MG 41 kt)
	10/31/19 23:59 EST		0	Source: Buoy
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.9 SE GREENBERRY POINT (GBY) [38.96, -76.45]				
	10/31/19 23:12 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	10/31/19 23:30 EST		0	Source: Buoy
Wind gusts in excess of 30 knots were observed at Annapolis buoy.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- ANNAPOLIS (KNAK) [38.98, -76.48]				
	10/31/19 23:18 EST		0	Marine Thunderstorm Wind (MG 43 kt)
	10/31/19 23:18 EST		0	Source: ASOS
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- RACCOON POINT (RAC) [38.14, -75.79]				
	10/31/19 23:18 EST		0	Marine Thunderstorm Wind (MG 43 kt)
	10/31/19 23:59 EST		0	Source: Buoy
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- CRISFIELD CG (CRS) [37.97, -75.88]				
	10/31/19 23:36 EST		0	Marine Thunderstorm Wind (MG 45 kt)
	10/31/19 23:59 EST		0	Source: Buoy
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- CRISFIELD FIRE DEPARTMENT (CRSFL) [37.98, -75.86]				
	10/31/19 23:45 EST		0	Marine Thunderstorm Wind (MG 46 kt)
	10/31/19 23:59 EST		0	Source: Buoy
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT (PPTM2) [38.13, -76.53]				
	10/31/19 23:48 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	10/31/19 23:59 EST		0	Source: Buoy
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- POINT LOOKOUT (PTL) [38.04, -76.32]				
	10/31/19 23:49 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	10/31/19 23:59 EST		0	Source: Buoy

Wind gusts in excess of 30 knots were observed at Point Lookout.

A strong cold front passed through during the evening of the 31st. A southerly flow led to warm and humid conditions ahead of the boundary, which caused an unstable atmosphere. The instability along with the cold front caused showers and isolated thunderstorms, some of which were able to mix down strong winds from aloft.

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DISTRICT OF COLUMBIA				
(DC-Z001) DISTRICT OF COLUMBIA				
	10/12/19 05:17 EST	0		Coastal Flood
	10/12/19 21:17 EST	0		
<p>Low pressure remained nearly stationary off the Mid-Atlantic Coast during this time. Water piled up near the mouth of the Bay and it was able to advance north into the Potomac River.</p>				
DISTRICT OF COLUMBIA COUNTY --- 1.7 NNE MOUNT PLEASANT [38.95, -77.04]				
	10/31/19 21:26 EST	0		Thunderstorm Wind (EG 52 kt)
	10/31/19 21:26 EST	0		Source: NWS Employee
<p>Tree down on Colorado Avenue Northwest near 16th Street Northwest.</p>				
DISTRICT OF COLUMBIA COUNTY --- 1.6 S NATIONAL ARBORETUM [38.90, -76.97]				
	10/31/19 21:28 EST	0		Thunderstorm Wind (EG 52 kt)
	10/31/19 21:28 EST	0		Source: Emergency Manager
<p>Tree down in the 2000 block of Gales Street Northeast. Tree down in the 1300 block of Bladensburg Road Northeast.</p> <p>A strong cold front passed through during the evening of the 31st. A southerly flow led to warm and humid conditions ahead of the boundary, which caused an unstable atmosphere. The instability along with the cold front caused showers and isolated thunderstorms, some of which were able to mix down strong winds from aloft.</p>				
(DC-Z001) DISTRICT OF COLUMBIA				
	10/31/19 22:04 EST	0		Coastal Flood
	10/31/19 23:27 EST	0		
<p>Low pressure remained nearly stationary off the Mid-Atlantic Coast during this time. Water piled up near the mouth of the Bay and it was able to advance north into the Potomac River.</p>				
MARYLAND, Central				
(MD-Z014) ANNE ARUNDEL, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT				
	10/10/19 22:45 EST	0		Coastal Flood
	10/13/19 04:30 EST	0		
<p>Low pressure remained nearly stationary off the Mid-Atlantic Coast during this time. Water piled up near the mouth of the Bay and it was able to advance north during the high tide cycles on the 10th through the 12th.</p>				
(MD-Z014) ANNE ARUNDEL				
	10/16/19 16:48 EST	0		Coastal Flood
	10/16/19 17:54 EST	0		
<p>A southerly flow caused anomalies to increase along the western shore of the Chesapeake Bay. This led to moderate flooding at Annapolis.</p>				
(MD-Z003) WASHINGTON, (MD-Z501) EXTREME WESTERN ALLEGANY, (MD-Z502) CENTRAL AND EASTERN ALLEGANY				
	10/19/19 01:00 EST	0		Frost/Freeze
	10/19/19 08:00 EST	0		
<p>Mainly clear skies and light winds led to radiational cooling, and this caused temperatures to drop to below freezing. Temperatures were reported to be in the 20s and lower 30s.</p>				
(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z502) CENTRAL AND EASTERN ALLEGANY, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD				
	10/22/19 22:00 EST	0		Dense Fog
	10/23/19 03:00 EST	0		

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An onshore flow led to increasing amounts of moisture underneath a strong temperature inversion, and this led to the development of dense fog. Visibility was reported to be around one-quarter mile.

(MD-Z014) ANNE ARUNDEL

	10/31/19 18:30 EST	0		Coastal Flood
	10/31/19 22:46 EST	0		

A southerly flow caused anomalies to increase along the western shore of the Chesapeake Bay. This led to moderate flooding at Annapolis.

MONTGOMERY COUNTY --- 4.0 SW WHITES FERRY [39.16, -77.52]

	10/31/19 18:54 EST	0		Thunderstorm Wind (EG 52 kt)
	10/31/19 18:54 EST	0		Source: Trained Spotter

Large six-inch diameter tree branch down across River Road near Whites Ferry Road.

CARROLL COUNTY --- 0.3 S UNION BRIDGE [39.57, -77.18]

	10/31/19 19:07 EST	0		Thunderstorm Wind (EG 52 kt)
	10/31/19 19:07 EST	0		Source: Emergency Manager

Tree reported down in the 100 block of Penrose Street.

CARROLL COUNTY --- 1.4 SW BRIDGEPORT [39.66, -77.24]

	10/31/19 19:07 EST	0		Thunderstorm Wind (EG 52 kt)
	10/31/19 19:07 EST	0		Source: Emergency Manager

Tree reported down in 3200 block of Hyser Road.

FREDERICK COUNTY --- 1.4 ESE JEFFERSON [39.36, -77.51]

	10/31/19 19:07 EST	0		Thunderstorm Wind (EG 52 kt)
	10/31/19 19:07 EST	0		Source: Emergency Manager

Tree down blocking one lane of eastbound US-340 at US-15.

CARROLL COUNTY --- 1.8 W WESTMINSTER ARPT [39.60, -77.03]

	10/31/19 19:13 EST	0		Thunderstorm Wind (EG 52 kt)
	10/31/19 19:13 EST	0		Source: Emergency Manager

Power lines reported down on Hughes Shop Road near Pinch Valley Road. Tree reported down on Uniontown Road at North Springdale Road.

CARROLL COUNTY --- 1.8 SW BACHMANS MILLS [39.65, -76.97]

	10/31/19 19:19 EST	0		Thunderstorm Wind (EG 61 kt)
	10/31/19 19:19 EST	0		Source: Emergency Manager

Multiple trees reported down on Bachmans Valley Road. Multiple trees down on Back Woods Road. Large tree down on wires blocking both directions of Bachmans Valley Road at Saw Mill Road East. Tree down in roadway on MD-496.

MONTGOMERY COUNTY --- 1.5 NW DARNESTOWN [39.12, -77.32]

	10/31/19 19:41 EST	0		Thunderstorm Wind (EG 52 kt)
	10/31/19 19:41 EST	0		Source: Emergency Manager

Tree and wires down blocking the intersection of Darnestown Road and Black Rock Road.

CARROLL COUNTY --- 0.7 NW ELDERSBURG [39.41, -76.96]

	10/31/19 19:50 EST	0		Thunderstorm Wind (EG 52 kt)
	10/31/19 19:50 EST	0		Source: Emergency Manager

Tree reported down on Johnsville Road near Liberty Road.

HOWARD COUNTY --- 1.9 NNE WOODSTOCK [39.35, -76.95]

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	10/31/19 19:51 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 19:51 EST		0	Source: Emergency Manager
Trees down along River Road in Sykesville.				
<hr/>				
CARROLL COUNTY --- 0.8 WNW ELDERSBURG WOLF ARPT [39.40, -76.93]				
	10/31/19 19:54 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 19:54 EST		0	Source: Emergency Manager
Tree reported down in the 6200 block of West Hemlock Drive.				
<hr/>				
HOWARD COUNTY --- 0.4 WSW LONG CORNER [39.33, -77.16]				
	10/31/19 19:56 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 19:56 EST		0	Source: Emergency Manager
Several trees and wires down along Long Corner Road near the intersection with Windsor Forest Road.				
<hr/>				
CARROLL COUNTY --- 1.3 ENE HENRYTON [39.35, -76.90]				
	10/31/19 19:59 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 19:59 EST		0	Source: Emergency Manager
Tree reported down on Ridge Road near Marriotsville Road.				
<hr/>				
HOWARD COUNTY --- 0.4 NNE GLENELG [39.28, -77.00]				
	10/31/19 19:59 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 19:59 EST		0	Source: Emergency Manager
Tree down at the intersection of Burntwoods Road and Roscommon Drive.				
<hr/>				
HOWARD COUNTY --- 1.6 NE COOKSVILLE [39.34, -77.00]				
	10/31/19 19:59 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 19:59 EST		0	Source: Emergency Manager
Several trees down along Old Frederick Road and Forsyth Road near Sykesville.				
<hr/>				
HOWARD COUNTY --- 1.7 ENE MAYFIELD [39.31, -76.90]				
	10/31/19 19:59 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 19:59 EST		0	Source: Emergency Manager
Multiple reports of trees down along Marriotsville Road north of Albeth Heights.				
<hr/>				
HOWARD COUNTY --- 2.4 SW KNOLLWOOD [39.24, -77.06]				
	10/31/19 20:34 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 20:34 EST		0	Source: Emergency Manager
Trees down along MD-97 near the Montgomery County Line.				
<hr/>				
HARFORD COUNTY --- 0.8 N RUTLEDGE [39.58, -76.50]				
	10/31/19 20:35 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 20:35 EST		0	Source: 911 Call Center
Tree down in the 3600 block of Fallston Road. Other trees down in the area.				
<hr/>				
MONTGOMERY COUNTY --- 0.4 W HOLLYWOOD PARK [39.07, -77.01]				
	10/31/19 20:42 EST	1	1.50M	Thunderstorm Wind (EG 52 kt)
	10/31/19 20:42 EST		0	Source: Emergency Manager
A tree fell onto a car near the intersection of Delford Avenue and Two Farm Drive. The occupant was later pronounced dead.				
Direct Fatalities: F57VE				
<hr/>				
HARFORD COUNTY --- 1.7 E WHITEFORD [39.70, -76.32]				

Storm Data and Unusual Weather Phenomena - October 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	10/31/19 20:53 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 20:53 EST		0	Source: 911 Call Center
Tree down at the intersection of MD-136 and Heaps Road.				
<hr/>				
HOWARD COUNTY --- 0.1 S EAST LIOAK [39.23, -76.88]				
	10/31/19 21:04 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 21:04 EST		0	Source: Emergency Manager
Several trees down on the north side of Columbia, Maryland. Tree down at the intersection of Autumn Hill Drive and Bali Road. Tree down on Woodloo Drive.				
<hr/>				
HARFORD COUNTY --- 0.5 ENE VALE [39.53, -76.39]				
	10/31/19 21:15 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 21:15 EST		0	Source: 911 Call Center
Tree down on Watervale Road at the intersection with Vale Road.				
<hr/>				
HARFORD COUNTY --- 1.4 E GIBSON [39.58, -76.30]				
	10/31/19 21:16 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 21:16 EST		0	Source: 911 Call Center
Tree down at Thomas Run Road and Pennington Road.				
<hr/>				
CHARLES COUNTY --- 1.4 E RISON [38.55, -77.15]				
	10/31/19 21:32 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 21:32 EST		0	Source: 911 Call Center
Downed tree in the 5500 block of Bicknell Road. Downed tree near Chicamuxen Road and Milstead Road. Downed tree near Liverpool Point Road and Jacksontown Road. Downed tree in the 5800 block of Smallwood Church Road. Downed tree in the 8900 block of Poorhouse Road.				
<hr/>				
BALTIMORE COUNTY --- 0.8 NNE WHITE MARSH [39.39, -76.43]				
	10/31/19 21:35 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 21:35 EST		0	Source: Emergency Manager
Tree reported down on Philadelphia Road near Joppa Road.				
<hr/>				
ANNE ARUNDEL COUNTY --- 0.8 ESE ODENTON [39.08, -76.69]				
	10/31/19 21:41 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 21:41 EST		0	Source: Fire Department/Rescue
Tree down at the intersection of Higgins Drive and Saint Barbara Lane.				
<hr/>				
CHARLES COUNTY --- 0.7 NNW SPRINGHILL [38.51, -76.98]				
	10/31/19 21:56 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 21:56 EST		0	Source: 911 Call Center
Downed tree in the 7400 block of Crain Highway.				
<hr/>				
ANNE ARUNDEL COUNTY --- 0.3 E ARUNDEL ON THE BAY [38.92, -76.46]				
	10/31/19 22:02 EST		0	Thunderstorm Wind (EG 70 kt)
	10/31/19 22:02 EST		0	Source: Public
Multiple trees snapped and uprooted, some fell onto houses. Also, several small boats flipped out of water a couple hundred feet onto land.				
<hr/>				
CHARLES COUNTY --- 0.9 NW TOMPKINSVILLE [38.33, -76.91]				
	10/31/19 22:15 EST		0	Thunderstorm Wind (EG 61 kt)
	10/31/19 22:15 EST		0	Source: 911 Call Center
Downed tree near the intersection of Rock Point Road and Delozier Farm Road. Large tree uprooted. Another large tree down. Tin roof torn off shed. Skirting partially ripped off trailer. Boat blown off boat trailer.				

Storm Data and Unusual Weather Phenomena - October 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ST. MARY'S COUNTY --- 0.8 N COLTON [38.24, -76.75]				
	10/31/19 22:22 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 22:22 EST		0	Source: Emergency Manager
Tree down in the 20900 block of Golden Thompson Road.				
CALVERT COUNTY --- 1.7 E DUNKIRK [38.72, -76.64]				
	10/31/19 22:25 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 22:25 EST		0	Source: 911 Call Center
Tree down at the intersection of Ward Road and Haven Road. Tree down at Willows Road and Bayside Road.				
ST. MARY'S COUNTY --- 2.4 SSW HILLVILLE [38.34, -76.64]				
	10/31/19 22:25 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 22:25 EST		0	Source: Emergency Manager
Tree down in the 24400 block of McIntosh Road.				
CALVERT COUNTY --- 2.0 E STOAKLEY [38.57, -76.56]				
	10/31/19 22:30 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 22:30 EST		0	Source: 911 Call Center
Tree damage at the intersection of Clay Hammond Road and Oliver Drive. Tree down in the 300 block of Shannon Avenue.				
CALVERT COUNTY --- 1.0 SW KENWOOD BEACH [38.49, -76.51]				
	10/31/19 22:33 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 22:33 EST		0	Source: 911 Call Center
Tree down at the intersection of Saint Leonard Road and West Shores Boulevard.				
ST. MARY'S COUNTY --- 1.2 NW CALLAWAY [38.24, -76.53]				
	10/31/19 22:35 EST		0	Thunderstorm Wind (EG 61 kt)
	10/31/19 22:35 EST		0	Source: Emergency Manager
Tree down in the 44400 block of Boxwood Drive. Tree down in the 22300 block of Golden Road Drive. Trees down in the 21100 block of Tri Community Way and in the 20600 block of Vintage Lane in Lexington Park.				
CALVERT COUNTY --- 0.4 WNW DRUM PT [38.32, -76.44]				
	10/31/19 22:42 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 22:42 EST		0	Source: Emergency Manager
Tree down in the 100 block of Leason Cove Drive.				
ST. MARY'S COUNTY --- 1.4 NE DRAYDEN [38.20, -76.47]				
	10/31/19 22:46 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 22:46 EST		0	Source: Emergency Manager
Tree down in the 46600 block of Frogs March Road.				
ST. MARY'S COUNTY --- 0.9 SSE ST INIGOES [38.14, -76.39]				
	10/31/19 22:59 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 22:59 EST		0	Source: Emergency Manager
Tree down in the 17300 block of Whitaker Road.				
<p>A strong cold front passed through during the evening of the 31st. A southerly flow led to warm and humid conditions ahead of the boundary, which caused an unstable atmosphere. The instability along with the cold front caused showers and isolated thunderstorms, some of which were able to mix down strong winds from aloft.</p>				
MONTGOMERY COUNTY --- 0.9 SE DAMASCUS [39.27, -77.19], 1.3 SE DAMASCUS [39.27, -77.18], 1.3 SE DAMASCUS [39.27, -77.18], 1.0 SE DAMASCUS [39.27, -77.19]				

Storm Data and Unusual Weather Phenomena - October 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	10/31/19 20:22 EST		0	Flood (due to Heavy Rain)
	10/31/19 22:22 EST		0	Source: Trained Spotter

The upper Seneca Creek was flooded over Hawkins Creamery Road between Johnson Farm Drive and Woodfield School Road. Water was about three feet deep.

MONTGOMERY COUNTY --- 0.8 N SENECA [39.09, -77.33], 2.1 S SENECA [39.05, -77.34], 2.2 S SENECA [39.05, -77.32], 0.9 NE SENECA [39.09, -77.32]				
	10/31/19 21:26 EST		0	Flood (due to Heavy Rain)
	10/31/19 23:59 EST		0	Source: River/Stream Gage

Portions of the Seneca Creek Greenway were flooded. A small portion of Berryville Road west of Darnestown was also flooded. The flooding continued until 11:37 AM EST on November 1st.

HOWARD COUNTY --- 0.3 W ELLICOTT CITY [39.27, -76.80], 0.3 WSW ELLICOTT CITY [39.27, -76.80], 0.1 SW ELLICOTT CITY [39.27, -76.80], 0.1 WSW ELLICOTT CITY [39.27, -76.80]				
	10/31/19 21:30 EST		0	Flood (due to Heavy Rain)
	10/31/19 23:30 EST		0	Source: Public

Three to twelve inches of water were flowing along the road in the 8500 and 8600 Blocks of Frederick Road.

BALTIMORE COUNTY --- 1.0 ENE WOODLAWN [39.33, -76.71], 0.9 ENE WOODLAWN [39.33, -76.71], 0.9 ENE WOODLAWN [39.33, -76.71], 1.0 ENE WOODLAWN [39.33, -76.71]				
	10/31/19 21:38 EST		0	Flood (due to Heavy Rain)
	10/31/19 23:38 EST		0	Source: Emergency Manager

A water rescue occurred near the intersection of Gwyndale and Gwynnmore Avenues.

MONTGOMERY COUNTY --- 0.7 NNW CLOPPER [39.16, -77.23], 0.7 NNW CLOPPER [39.16, -77.23], 0.7 NNW CLOPPER [39.16, -77.23], 0.8 NNW CLOPPER [39.16, -77.23]				
	10/31/19 21:49 EST		20K	Flash Flood (due to Heavy Rain)
	10/31/19 23:30 EST		0	Source: Fire Department/Rescue

A car was stranded in high water on Game Preserve Road near Great Seneca Creek.

MONTGOMERY COUNTY --- 1.0 SSW PURDUM [39.27, -77.24], 1.1 NNW CEDAR GROVE [39.26, -77.24], 1.0 NNW CEDAR GROVE [39.26, -77.24], 1.0 SSW PURDUM [39.27, -77.24]				
	10/31/19 22:05 EST		0	Flood (due to Heavy Rain)
	10/31/19 23:59 EST		0	Source: COOP Observer

Water was flowing over the bridge on Kings Valley Road near the intersection with Stringtown Road.

HOWARD COUNTY --- 0.3 SSW BRINKLEIGH MANOR [39.28, -76.83], 0.4 SSW BRINKLEIGH MANOR [39.28, -76.83], 0.3 SSW BRINKLEIGH MANOR [39.28, -76.83], 0.3 SSW BRINKLEIGH MANOR [39.28, -76.83]				
	10/31/19 22:08 EST		0	Flood (due to Heavy Rain)
	10/31/19 23:59 EST		0	Source: Trained Spotter

North Chatham Road was closed due to flooding at Plum Tree Branch.

BALTIMORE COUNTY --- 0.1 S BROOKLANDVILLE [39.42, -76.67], 0.1 SSE BROOKLANDVILLE [39.42, -76.67], 0.1 SSE BROOKLANDVILLE [39.42, -76.67], 0.1 SSE BROOKLANDVILLE [39.42, -76.67]				
	10/31/19 22:20 EST		0	Flood (due to Heavy Rain)
	10/31/19 23:59 EST		0	Source: State Official

A road was closed near Falls Road and Jones Falls Expressway due to flooding.

BALTIMORE COUNTY --- 5.9 WSW GRANITE [39.31, -76.96], 5.9 WSW GRANITE [39.31, -76.96], 5.8 WSW GRANITE [39.30, -76.96], 5.8 WSW GRANITE [39.31, -76.96]				
	10/31/19 22:20 EST		0	Flood (due to Heavy Rain)
	10/31/19 23:59 EST		0	Source: State Official

The 4600 Block of Frederick Road was closed at Maidens Choice Run.

Storm Data and Unusual Weather Phenomena - October 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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BALTIMORE CITY (C) COUNTY --- 0.7 SE LEAHIGH [39.36, -76.69], 0.7 SE LEAHIGH [39.36, -76.69], 0.7 SE LEAHIGH [39.36, -76.69], 0.7 SE LEAHIGH [39.36, -76.69]

10/31/19 22:25 EST	0	Flash Flood (due to Heavy Rain)
10/31/19 23:59 EST	0	Source: Emergency Manager

West Strathmore Road was closed due to flash flooding near the intersection with Cross Country Boulevard.

BALTIMORE COUNTY --- 1.6 S BARE HILLS [39.33, -76.68], 1.9 SSE BARE HILLS [39.32, -76.67], 1.9 SSE BARE HILLS [39.32, -76.67], 1.7 S BARE HILLS [39.33, -76.68]

10/31/19 22:25 EST	0	Flood (due to Heavy Rain)
10/31/19 23:59 EST	0	Source: Emergency Manager

West Forest Park Avenue was closed due to flooding.

BALTIMORE COUNTY --- 5.9 E LAWDALE [39.52, -76.77], 5.8 E LAWDALE [39.51, -76.77], 5.9 E LAWDALE [39.51, -76.77], 5.9 E LAWDALE [39.52, -76.77]

10/31/19 22:28 EST	0	Flood (due to Heavy Rain)
10/31/19 22:34 EST	0	Source: River/Stream Gage

Agricultural flooding took place.

BALTIMORE COUNTY --- 6.6 WNW HERNWOOD [39.40, -76.99], 6.4 W HERNWOOD [39.39, -76.99], 5.7 W HERNWOOD [39.39, -76.98], 6.2 WNW HERNWOOD [39.41, -76.98]

10/31/19 22:28 EST	0	Flood (due to Heavy Rain)
10/31/19 22:34 EST	0	Source: River/Stream Gage

Agricultural flooding took place.

HOWARD COUNTY --- 3.0 ENE ELKRIDGE [39.23, -76.67], 3.0 ENE ELKRIDGE [39.23, -76.67], 3.1 ENE ELKRIDGE [39.23, -76.66], 3.1 ENE ELKRIDGE [39.23, -76.66]

10/31/19 22:56 EST	0	Flood (due to Heavy Rain)
10/31/19 23:59 EST	0	Source: River/Stream Gage

Hammonds Ferry Road floods and was closed at the Patapsco River. Backwater flooding likely led to the closure of Furnace Avenue in Elkridge. The flooding continued until 11:05 AM EST on November 1st.

BALTIMORE COUNTY --- 0.7 SSW GLENCOE [39.54, -76.64], 0.9 NNE SPARKS [39.54, -76.64], 0.7 NE SPARKS [39.54, -76.64], 0.9 SSW GLENCOE [39.54, -76.64]

10/31/19 23:30 EST	0	Flood (due to Heavy Rain)
10/31/19 23:59 EST	0	Source: River/Stream Gage

Water entered buildings off Sparks Road and portions of Home Road began to flood.

BALTIMORE COUNTY --- 0.7 SSW GLENCOE [39.54, -76.64], 0.9 NNE SPARKS [39.54, -76.64], 0.7 NE SPARKS [39.54, -76.64], 0.9 SSW GLENCOE [39.54, -76.64]

10/31/19 23:30 EST	0	Flood (due to Heavy Rain)
10/31/19 23:59 EST	0	Source: River/Stream Gage

Water entered buildings off Sparks Road and portions of Home Road began to flood. The flooding continued until November 1st at 6:57 AM EST.

A strong cold front passed through the area on the 31st. Strong southerly winds ushered in plenty of moisture ahead of the boundary, and the moisture combined with a strong wind field to produce locally heavy rainfall.

VIRGINIA, North

(VA-Z054) ARLINGTON

10/12/19 05:25 EST	0	Coastal Flood
10/12/19 21:30 EST	0	

Storm Data and Unusual Weather Phenomena - October 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Low pressure remained nearly stationary off the Mid-Atlantic Coast during this time. Water piled up near the mouth of the Bay and it was able to advance north into the Potomac River.

(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z504) EASTERN HIGHLAND

10/14/19 05:00 EST	0	Dense Fog
10/14/19 08:00 EST	0	

Mainly clear skies and light winds combined with saturated soils led to the development of fog. Visibility was reported to be around one-quarter mile.

(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z038) GREENE, (VA-Z039) MADISON, (VA-Z040) RAPPAHANNOCK, (VA-Z050) ORANGE, (VA-Z051) CULPEPER, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND

10/19/19 01:00 EST	0	Frost/Freeze
10/19/19 08:00 EST	0	

Mainly clear skies and light winds led to radiational cooling, and this caused temperatures to drop to below freezing. Temperatures were reported to be in the 20s and lower 30s.

(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-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

10/22/19 22:00 EST	0	Dense Fog
10/23/19 05:00 EST	0	

An onshore flow led to increasing amounts of moisture underneath a strong temperature inversion, and this led to the development of dense fog. Visibility was reported to be around one-quarter mile.

FAIRFAX COUNTY --- 1.0 WSW TREMONT [38.85, -77.24], 0.9 WSW TREMONT [38.85, -77.24], 1.0 WSW TREMONT [38.85, -77.24], 1.0 WSW TREMONT [38.85, -77.24]

10/27/19 10:14 EST	0	Flood (due to Heavy Rain)
10/27/19 11:31 EST	0	Source: River/Stream Gage

Woodburn Road was covered by approximately six inches of water at its lowest point. Portions of the Cross County Trail are also flooded.

A cold front passed through and a deep layer of moisture ahead of the boundary caused locally heavy rainfall.

HIGHLAND COUNTY --- 0.8 NW HIGHTOWN [38.44, -79.64]

10/31/19 15:54 EST	0	Thunderstorm Wind (EG 52 kt)
10/31/19 15:54 EST	0	Source: 911 Call Center

A tree was reported down in the 12000 block of Mountain Turnpike.

ROCKINGHAM COUNTY --- 1.4 NE HUPP [38.64, -78.71], 1.9 NNE HUPP [38.64, -78.71]

10/31/19 17:04 EST	30K	Tornado (EF0, L: 0.54 mi , W: 25 yd)
10/31/19 17:05 EST	0	Source: NWS Storm Survey

Storm Data and Unusual Weather Phenomena - October 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>The tornado appeared to begin in a corn field on a property on the southwest side of Henkel Lane, where corn stalks were flattened in a narrow, meandering path, over an area about 25 yards wide. As this path meandered northeastward, it crossed a grove of healthy trees, most of which had substantial numbers of their large top branches snapped off. It then proceeded across an old barn which was destroyed. A 2 by 6 piece of lumber from the barn impaled the windshield of a nearby SUV, whose hood was also peeled back from the wind.</p> <p>Damage continued across a corn field on the northeast side of Henkel Lane. A small shed was destroyed on a property just south of VA-211 New Market Road. Here a small tree was uprooted, and several branches were downed across the roadway.</p> <p>In addition, several large trees were downed along Birdview Lane, all facing the same direction about a mile and a half to the southwest of the confirmed tornado path.</p>				
<hr/>				
RAPPAHANNOCK COUNTY --- 0.3 NE HUNTLY [38.83, -78.12]				
	10/31/19 17:54 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 17:54 EST		0	Source: 911 Call Center
<p>A tree was down on Zachary Taylor Road at Hume Road.</p>				
<hr/>				
LOUDOUN COUNTY --- 1.0 SW BLUEMONT [39.11, -77.83]				
	10/31/19 18:06 EST		0	Thunderstorm Wind (EG 61 kt)
	10/31/19 18:06 EST		0	Source: Law Enforcement
<p>Numerous trees were down with roads closed in Bluemont, including near Foggy Bottom Road and Hollow Oak Roads.</p>				
<hr/>				
CULPEPER COUNTY --- 2.0 E WHITE SHOP [38.43, -78.03]				
	10/31/19 18:21 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 18:21 EST		0	Source: 911 Call Center
<p>Trees and wires were down on James Madison Highway near Kettle Club Road.</p>				
<hr/>				
CULPEPER COUNTY --- 2.5 SW CULPEPER [38.45, -78.03]				
	10/31/19 18:23 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 18:23 EST		0	Source: 911 Call Center
<p>A tree was down on Hoover Road near True Blue Lane.</p>				
<hr/>				
CULPEPER COUNTY --- 1.5 NNW INLET [38.50, -77.94]				
	10/31/19 18:27 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 18:27 EST		0	Source: 911 Call Center
<p>Tree down on Inlet Road near Brandy Road.</p>				
<hr/>				
NELSON COUNTY --- 2.3 S AVON [37.97, -78.84]				
	10/31/19 18:28 EST		0	Thunderstorm Wind (EG 61 kt)
	10/31/19 18:28 EST		0	Source: Public
<p>Nearly three dozen trees were uprooted on property along Falling Springs Drive.</p>				
<hr/>				
LOUDOUN COUNTY --- 1.8 SSE LOVETTSVILLE [39.24, -77.62]				
	10/31/19 18:35 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 18:35 EST		0	Source: Law Enforcement
<p>A tree was down on Georges Mill Road at Stevens Road. A tree was also down on Orrison Road at Featherbed Lane.</p>				
<hr/>				
LOUDOUN COUNTY --- 1.4 WNW PURCELLVILLE [39.15, -77.75]				

Storm Data and Unusual Weather Phenomena - October 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	10/31/19 18:50 EST		0	Thunderstorm Wind (EG 61 kt)
	10/31/19 18:50 EST		0	Source: Law Enforcement
Numerous trees were down and roads were closed in the Round Hill and Purcellville area, including along Ketoctin Church Road.				
LOUDOUN COUNTY --- 2.2 ESE STUMPTOWN [39.18, -77.52]				
	10/31/19 19:00 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 19:00 EST		0	Source: Law Enforcement
A tree was down closing Limestone School Road.				
GREENE COUNTY --- 0.7 NNW QUINQUE [38.26, -78.40]				
	10/31/19 19:07 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 19:07 EST		0	Source: 911 Call Center
Trees and wires were down along Stevens Loop at Home Again Drive.				
ORANGE COUNTY --- 0.2 NNW ORANGE [38.25, -78.12]				
	10/31/19 19:31 EST		0	Thunderstorm Wind (EG 61 kt)
	10/31/19 19:31 EST		0	Source: 911 Call Center
A tree was down at Spicers Mill Road and Miller Road. A tree was down in the 14100 block of Old Gordonsville Road. A tree was down at Old Gordonsville Road and Morningside Drive. A tree was down at the intersection of Litchfield Drive and Old Gordonsville Road. A tree was down near the intersection of Mountain Track Road and Old Gordonsville Road. A tree was down on Little Zion Road at Tomahawk Creek Road.				
ORANGE COUNTY --- 0.9 W BURR HILL [38.35, -77.89]				
	10/31/19 19:33 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 19:33 EST		0	Source: 911 Call Center
A tree was down along the 28000 block of Raccoon Ford Road.				
CULPEPER COUNTY --- 0.9 ENE LIGNUM [38.42, -77.81]				
	10/31/19 19:39 EST		0	Thunderstorm Wind (EG 61 kt)
	10/31/19 19:39 EST		0	Source: 911 Call Center
Multiple trees were down on Eleyes Ford Road.				
ORANGE COUNTY --- 1.3 E UNIONVILLE [38.27, -77.95]				
	10/31/19 19:39 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 19:39 EST		0	Source: 911 Call Center
A tree was down on VA-20 Constitution Highway at Ivy Lane. A tree was also down along the 11300 block of US-522 Zachary Taylor Highway.				
ORANGE COUNTY --- 5.5 N EVERONA [38.38, -77.99]				
	10/31/19 19:42 EST		0	Thunderstorm Wind (EG 61 kt)
	10/31/19 19:42 EST		0	Source: 911 Call Center
Multiple trees were down on US-522 Zachary Taylor Highway. A tree was also down along the 20000 block of Mount Pony Road.				
CULPEPER COUNTY --- 1.4 NNW INLET [38.50, -77.94]				
	10/31/19 19:44 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 19:44 EST		0	Source: 911 Call Center
Tree reported down in the 15000 block of Inlet Road.				
CULPEPER COUNTY --- 2.6 W RACCOON FORD [38.37, -77.98]				
	10/31/19 19:44 EST		0	Thunderstorm Wind (EG 61 kt)
	10/31/19 19:44 EST		0	Source: 911 Call Center
Multiple trees were reported down on the Algonquin Trail.				
FAUQUIER COUNTY --- 1.6 NW MIDLAND [38.61, -77.74]				

Storm Data and Unusual Weather Phenomena - October 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	10/31/19 19:48 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 19:48 EST		0	Source: 911 Call Center
A tree was down on Messick Road at Germantown Road. A second tree was down in the 5500 block of Germantown Road.				
CULPEPER COUNTY --- 1.6 NW STEVENSBERG [38.47, -77.90]				
	10/31/19 19:50 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 19:50 EST		0	Source: 911 Call Center
A tree was down on Stevensburg Road near Greens Corner Road. A tree was also down in the 17000 block of Carrico Mills Road.				
FAUQUIER COUNTY --- 0.4 WNW MIDLAND WARRENTON AR [38.58, -77.73]				
	10/31/19 19:50 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 19:50 EST		0	Source: 911 Call Center
Tree reported down in the 11000 block of Rougues Road.				
FAUQUIER COUNTY --- 0.2 E SOWEGO [38.60, -77.57]				
	10/31/19 20:00 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 20:00 EST		0	Source: 911 Call Center
Tree reported down in 2700 block of Dumfries Road. Tree reported down in 1400 block of Swoego Road. Tree reported down in the 8100 block of Burwell Road.				
PRINCE WILLIAM COUNTY --- 1.0 ESE LIMSTRONG [38.71, -77.45]				
	10/31/19 20:05 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 20:05 EST		0	Source: 911 Call Center
Tree down in the 8400 block of Briarmont Lane. Tree down on Leland Road at Centreville Road.				
PRINCE WILLIAM COUNTY --- 1.5 ENE GAINESVILLE [38.81, -77.57]				
	10/31/19 20:05 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 20:05 EST		0	Source: 911 Call Center
Tree down at intersection of Pageland Road and US-29 Lee Highway. Tree down on Waterfall Road at Duck Lane.				
FAIRFAX COUNTY --- 1.4 NNE VALE [38.90, -77.34]				
	10/31/19 20:11 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 20:11 EST		0	Source: 911 Call Center
Tree down on Rifle Ridge Road. Tree also down on Adel Road at Samaga Drive.				
SPOTSYLVANIA COUNTY --- CHANCELLORSVILLE [38.30, -77.63]				
	10/31/19 20:15 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 20:15 EST		0	Source: Emergency Manager
Trees down along VA-3 in Chancellorsville. Tree down along Brock Road.				
FAIRFAX COUNTY --- 0.6 WNW VIENNA [38.90, -77.28]				
	10/31/19 20:17 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 20:17 EST		0	Source: 911 Call Center
Tree down on Riviera Drive at Corsica Street. Tree down on Woodrow Street at Stryker Avenue. Tree down on Hill Road at Ivy Lane.				
STAFFORD COUNTY --- 2.5 WNW STAFFORD [38.43, -77.44]				
	10/31/19 20:24 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 20:24 EST		0	Source: 911 Call Center
Trees down along Courthouse Road.				
PRINCE WILLIAM COUNTY --- 0.8 ENE TRIANGLE [38.55, -77.31]				

Storm Data and Unusual Weather Phenomena - October 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	10/31/19 20:33 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 20:33 EST		0	Source: 911 Call Center
Tree down on Cabin Road at Stonewall Manor Drive.				
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ORANGE COUNTY --- 2.4 WSW WILDERNESS [38.31, -77.77]				
	10/31/19 20:44 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 20:44 EST		0	Source: 911 Call Center
Tree down in 34400 block of Constitution Highway. Tree down in 400 block of Westover Parkway.				
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STAFFORD COUNTY --- 1.1 N GARRISONVILLE [38.49, -77.42]				
	10/31/19 21:09 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 21:09 EST		0	Source: 911 Call Center
Four trees down along Ebenezer Church Road.				
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FAIRFAX COUNTY --- 0.7 E LEWINSVILLE [38.93, -77.19]				
	10/31/19 21:13 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 21:13 EST		0	Source: 911 Call Center
Tree down on Fern Oak Court at Hornet Lane. Tree down at the intersection of VA-123 Dolley Madison Boulevard and VA-193 Georgetown Pike. Second tree down near the intersection of VA-123 Dolley Madison Boulevard and Potomac School Road.				
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SPOTSYLVANIA COUNTY --- 0.8 NW PARTLOW [38.04, -77.64]				
	10/31/19 21:13 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 21:13 EST		0	Source: Emergency Manager
Several trees down in Partlow.				
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SPOTSYLVANIA COUNTY --- 0.3 NNW THORNBURG [38.13, -77.52]				
	10/31/19 21:15 EST		0	Thunderstorm Wind (EG 61 kt)
	10/31/19 21:15 EST		0	Source: Emergency Manager
Numerous trees down in the Thornburg area.				
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FAIRFAX COUNTY --- 0.2 SW ANNANDALE [38.83, -77.18]				
	10/31/19 21:17 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 21:17 EST		0	Source: 911 Call Center
Tree down on VA-236 at High Place and Lafayette Park Drive.				
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KING GEORGE COUNTY --- DAHLGREN [38.33, -77.05]				
	10/31/19 21:56 EST		0	Thunderstorm Wind (EG 61 kt)
	10/31/19 21:56 EST		0	Source: 911 Call Center
Downed tree near Ridge Road and Lakeview Drive. Downed tree near Owens Drive and Gambo Creek Road. Around a dozen trees down in the Dahlgren area.				
<p>A strong cold front passed through during the evening of the 31st. A southerly flow led to warm and humid conditions ahead of the boundary, which caused an unstable atmosphere. The instability along with the cold front caused showers and isolated thunderstorms, some of which were able to mix down strong winds from aloft.</p>				
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RAPPAHANNOCK COUNTY --- 0.5 NNW ROCK MILLS [38.66, -78.13], 0.4 NW ROCK MILLS [38.65, -78.14], 0.2 NNE ROCK MILLS [38.65, -78.13], 0.5 NNE ROCK MILLS [38.66, -78.13]				
	10/31/19 19:19 EST		0	Flood (due to Heavy Rain)
	10/31/19 21:19 EST		0	Source: 911 Call Center
Rock Mills Road was closed at Wharton Hollow Road due to flooding.				
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GREENE COUNTY --- 0.7 SW GEER [38.29, -78.51], 1.2 ENE MARCH [38.27, -78.51], 0.8 ENE MARCH [38.28, -78.52], 1.1 WSW GEER [38.30, -78.52]				
	10/31/19 20:52 EST		0	Flood (due to Heavy Rain)
	10/31/19 22:52 EST		0	Source: 911 Call Center

Storm Data and Unusual Weather Phenomena - October 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Dyke Road was closed due to flooding.

GREENE COUNTY --- 2.3 NNW STANDARDSVILLE [38.33, -78.45], 2.4 NNW STANDARDSVILLE [38.33, -78.45], 2.5 NNW STANDARDSVILLE [38.33, -78.45], 2.4 NNW STANDARDSVILLE [38.33, -78.45]

10/31/19 20:52 EST	0	Flood (due to Heavy Rain)
10/31/19 22:52 EST	0	Source: 911 Call Center

Octonia Road was closed due to flooding.

GREENE COUNTY --- 2.6 NNW STANDARDSVILLE [38.33, -78.45], 2.1 N STANDARDSVILLE [38.33, -78.44], 1.7 N STANDARDSVILLE [38.32, -78.43], 1.4 N STANDARDSVILLE [38.32, -78.43], 2.1 NNW STANDARDSVILLE [38.33, -78.45]

10/31/19 20:52 EST	0	Flood (due to Heavy Rain)
10/31/19 22:52 EST	0	Source: 911 Call Center

South River Road was closed due to flooding.

FAIRFAX COUNTY --- 1.0 WSW TREMONT [38.85, -77.24], 1.1 WSW TREMONT [38.85, -77.24], 1.0 WSW TREMONT [38.85, -77.24], 0.9 WSW TREMONT [38.85, -77.24]

10/31/19 22:26 EST	0	Flood (due to Heavy Rain)
10/31/19 23:59 EST	0	Source: River/Stream Gage

Woodburn Road was covered by approximately six inches of water at its lowest point. Portions of the Cross County Trail are also flooded. The flooding continued until 1:10 AM EST on November 1st.

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

10/31/19 23:18 EST	0	Flood (due to Heavy Rain)
10/31/19 23:59 EST	0	Source: River/Stream Gage

Six inches of water covered Browns Mill Road at its lowest point.

A strong cold front passed through the area on the 31st. Strong southerly winds ushered in plenty of moisture ahead of the boundary, and the moisture combined with a strong wind field to produce locally heavy rainfall.

WEST VIRGINIA, East

(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (WV-Z055) HARDY, (WV-Z502) EASTERN GRANT, (WV-Z504) EASTERN MINERAL, (WV-Z506) EASTERN PENDLETON

10/14/19 05:00 EST	0	Dense Fog
10/14/19 08:00 EST	0	

Mainly clear skies and light winds combined with saturated soils led to the development of fog. Visibility was reported to be around one-quarter mile.

(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (WV-Z052) BERKELEY, (WV-Z053) JEFFERSON, (WV-Z055) HARDY, (WV-Z501) WESTERN GRANT, (WV-Z502) EASTERN GRANT, (WV-Z503) WESTERN MINERAL, (WV-Z504) EASTERN MINERAL, (WV-Z505) WESTERN PENDLETON, (WV-Z506) EASTERN PENDLETON

10/19/19 01:00 EST	0	Frost/Freeze
10/19/19 08:00 EST	0	

Mainly clear skies and light winds led to radiational cooling, and this caused temperatures to drop to below freezing. Temperatures were reported to be in the 20s and lower 30s.

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

10/22/19 22:00 EST	0	Dense Fog
10/23/19 03:00 EST	0	

An onshore flow led to increasing amounts of moisture underneath a strong temperature inversion, and this led to the development of dense fog. Visibility was reported to be around one-quarter mile.

Storm Data and Unusual Weather Phenomena - October 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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GRANT COUNTY --- 2.3 SSE MAYSVILLE [39.09, -79.16]				
	10/31/19 15:30 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 15:30 EST		0	Source: 911 Call Center
Large tree down on Roby Road.				
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GRANT COUNTY --- 0.5 W MARTIN [39.22, -79.09]				
	10/31/19 15:32 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 15:32 EST		0	Source: 911 Call Center
Large tree down at the intersection of Knobley Road and Martin Road.				
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MORGAN COUNTY --- 0.6 SE BERKELEY SPGS [39.62, -78.22]				
	10/31/19 16:43 EST		0	Thunderstorm Wind (EG 52 kt)
	10/31/19 16:43 EST		0	Source: 911 Call Center

Two trees down on Fairfax Street and Fairfax Lane.

A strong cold front passed through during the evening of the 31st. A southerly flow led to warm and humid conditions ahead of the boundary, which caused an unstable atmosphere. The instability along with the cold front caused showers and isolated thunderstorms, some of which were able to mix down strong winds from aloft.