

Storm Data and Unusual Weather Phenomena - October 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ATLANTIC NORTH				
CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- MID BAY BUOY [38.47, -76.38]				
	10/15/18 23:00 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	10/15/18 23:00 EST	0		Source: Buoy
A wind gust of up to 34 knots was measured at Cove Point.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- TOLLY POINT (TOL) [38.94, -76.44]				
	10/15/18 23:16 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	10/15/18 23:16 EST	0		Source: Buoy
A wind gust of up to 34 knots was measured at Tolly Point.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- HERRING BAY (HRB) [38.73, -76.54]				
	10/15/18 23:36 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	10/15/18 23:36 EST	0		Source: Buoy
A wind gust of up to 34 knots was measured at Herring Bay.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT (TPLM2) [38.90, -76.44]				
	10/15/18 23:59 EST	0		Marine Thunderstorm Wind (MG 35 kt)
	10/15/18 23:59 EST	0		Source: Buoy
A wind gust of 35 knots was measured at Thomas Point.				
CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- GOOSSES REEF BUOY (44062) [38.56, -76.41]				
	10/16/18 00:10 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	10/16/18 00:10 EST	0		Source: Buoy
A wind gust of up to 34 knots was measured at Goose's Reef.				
A cold front passed across the waters during the evening and overnight hours of October 15th-16th. A band of showers and isolated thunderstorms along the front produced gusty winds across portions of the waters.				
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- MARYLAND SCIENCE CENTER (BLMRE) [39.28, -76.61]				
	10/20/18 20:54 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	10/20/18 21:20 EST	0		Source: Mesonet
A wind gust of up to 34 knots was measured at the Maryland Science Center.				
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- ORIOLE PARK AT CAMDEN YARDS (BLTPC) [39.28, -76.62]				
	10/20/18 20:55 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	10/20/18 21:00 EST	0		Source: Mesonet
A wind gust of 36 knots was measured at Camden Yards.				
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- BALTIMORE (BLTM2) [39.27, -76.58]				
	10/20/18 21:00 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	10/20/18 21:00 EST	0		Source: Mesonet
A wind gust of up to 34 knots was measured in Baltimore.				
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- BALTIMORE KEY BRIDGE (FSKM2) [39.22, -76.53]				
	10/20/18 21:00 EST	0		Marine Thunderstorm Wind (MG 42 kt)
	10/20/18 21:30 EST	0		Source: Mesonet
A wind gust of 42 knots was measured at the Baltimore Key Bridge.				
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- HAMPSTEAD HILL ACADEMY (BLMH) [39.29, -76.58]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	10/20/18 21:00 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	10/20/18 21:15 EST		0	Source: Mesonet

A wind gust of 36 knots was measured at Hampstead Hill Academy.

PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- LAKELAND ES AND MS (BLTLK) [39.25, -76.65]				
	10/20/18 21:00 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	10/20/18 21:00 EST		0	Source: Mesonet

A wind gust of 37 knots was measured at Lakeland Elementary School.

CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- GUNPOWDER (GUN) [39.36, -76.37]				
	10/20/18 21:04 EST		0	Marine Thunderstorm Wind (MG 40 kt)
	10/20/18 21:19 EST		0	Source: Mesonet

A wind gust of 40 knots was measured at Gunpowder.

CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- HART MILLER ISLAND (HRT) [39.25, -76.37]				
	10/20/18 21:07 EST		0	Marine Thunderstorm Wind (MG 42 kt)
	10/20/18 21:27 EST		0	Source: Buoy

A wind gust of 42 knots was measured at Hart Miller Island.

TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- NATIONALS PARK (WSHNP) [38.87, -77.01]				
	10/20/18 21:09 EST		0	Marine Thunderstorm Wind (MG 40 kt)
	10/20/18 21:14 EST		0	Source: Mesonet

A wind gust of 40 knots was measured at Nationals Park.

TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- (DCA)REAGAN NATIONAL AIRPORT [38.86, -77.03]				
	10/20/18 21:12 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	10/20/18 21:12 EST		0	Source: ASOS

A wind gust of 38 knots was measured at KDCA (Washington National Airport).

TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- WASHINGTON DC (WASD2) [38.87, -77.02]				
	10/20/18 21:12 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	10/20/18 21:12 EST		0	Source: Other Federal Agency

A wind gust of up to 34 knots was measured near the Southwest Waterfront.

TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- CORA KELLY ES (ALXDR) [38.84, -77.06]				
	10/20/18 21:14 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	10/20/18 21:14 EST		0	Source: Mesonet

A wind gust of up to 34 knots was measured near the Cora Kelly Elementary School.

TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- LONG BRANCH ES (ARLNL) [38.87, -77.09]				
	10/20/18 21:15 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	10/20/18 21:15 EST		0	Source: Mesonet

A wind gust of 36 knots was measured near the Long Branch Elementary School.

CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- TOLCHESTER MD (TCBM2) [39.32, -76.25]				
	10/20/18 21:18 EST		0	Marine Thunderstorm Wind (MG 40 kt)
	10/20/18 21:30 EST		0	Source: Buoy

A wind gust of 40 knots was measured at Tolchester.

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.0 NNW LEESYLVANIA STATE PARK (LSLVN) [38.68, -77.26]				
	10/20/18 21:18 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	10/20/18 21:23 EST		0	Source: Mesonet

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A wind gust of up to 34 knots was measured near Occoquan.				
CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- TOLCHESTER MD (TCBM2) [39.32, -76.25]				
	10/20/18 21:21 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	10/20/18 21:21 EST		0	Source: AWOS
A wind gust of up to 34 knots was measured at Martin State Airport.				
CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- GROVE POINT (GVP) [39.40, -76.04]				
	10/20/18 21:22 EST		0	Marine Thunderstorm Wind (MG 47 kt)
	10/20/18 21:27 EST		0	Source: Buoy
A wind gust of 47 knots was measured at Grove Point.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- GREENBERRY POINT (GBY) [38.97, -76.46]				
	10/20/18 21:29 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	10/20/18 21:29 EST		0	Source: Buoy
A wind gust of up to 34 knots was measured at Greenbury Point.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- 0.3 SE ANNAPOLIS (KNAK) [38.98, -76.48]				
	10/20/18 21:30 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	10/20/18 21:30 EST		0	Source: Buoy
A wind gust of up to 34 knots was measured at Annapolis.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- TOLLY POINT (TOL) [38.94, -76.44]				
	10/20/18 21:31 EST		0	Marine Thunderstorm Wind (MG 39 kt)
	10/20/18 22:01 EST		0	Source: Buoy
A wind gust of 39 knots was measured at Tolly Point.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- QUANTICO (KNYG) [38.51, -77.30]				
	10/20/18 21:31 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	10/20/18 21:31 EST		0	Source: AWOS
A wind gust of up to 34 knots was measured at Quantico.				
CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- GROVE POINT (GVP) [39.40, -76.04]				
	10/20/18 21:32 EST		0	Marine Thunderstorm Wind (MG 41 kt)
	10/20/18 21:42 EST		0	Source: Buoy
A wind gust of 41 knots was measured at Grove Point.				
CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- HART MILLER ISLAND (HRT) [39.25, -76.37]				
	10/20/18 21:32 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	10/20/18 21:32 EST		0	Source: Buoy
A wind gust of 34 knots was measured at Hart Miller Island.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- GREENBERRY POINT (GBY) [38.97, -76.46]				
	10/20/18 21:34 EST		0	Marine Thunderstorm Wind (MG 40 kt)
	10/20/18 22:04 EST		0	Source: Buoy
A wind gust of 40 knots was measured at Greenbury Point.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- KENT ISLAND (KNT) [38.92, -76.36]				
	10/20/18 21:37 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	10/20/18 22:02 EST		0	Source: Buoy
A wind gust of 35 knots was measured at Kent Island.				

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CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- TOLCHESTER MD (TCBM2) [39.32, -76.25]				
	10/20/18 21:42 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	10/20/18 21:42 EST	0		Source: Buoy
A wind gust of up to 34 knots was measured at Tolchester.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- ANNAPOLIS (KNAK) [38.98, -76.48]				
	10/20/18 21:47 EST	0		Marine Thunderstorm Wind (MG 38 kt)
	10/20/18 21:47 EST	0		Source: ASOS
A wind gust of 38 knots was measured at the US Naval Academy.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- HERRING BAY (HRB) [38.73, -76.54]				
	10/20/18 21:51 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	10/20/18 21:51 EST	0		Source: Buoy
A wind gust of up to 34 knots was measured at Herring Bay.				
CHOPTANK RIVER TO CAMBRIDGE MD AND THE LITTLE CHOPTANK RIVER COUNTY --- 9.3 NNE GOOSSES REEF BUOY (44062) [38.68, -76.34]				
	10/20/18 21:58 EST	0		Marine Thunderstorm Wind (MG 41 kt)
	10/20/18 22:13 EST	0		Source: Buoy
A wind gust of 41 knots was measured at Blackwalnut Harbor.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT (TPLM2) [38.90, -76.44]				
	10/20/18 22:00 EST	0		Marine Thunderstorm Wind (MG 40 kt)
	10/20/18 22:00 EST	0		Source: Buoy
A wind gust of 40 knots was measured at Thomas Point.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- POTOMAC LIGHT 33 (LT3) [38.34, -76.99]				
	10/20/18 22:06 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	10/20/18 22:11 EST	0		Source: Mesonet
A wind gust of up to 34 knots was measured at Potomac Light 33.				
CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- GOOSSES REEF BUOY (44062) [38.56, -76.41]				
	10/20/18 22:10 EST	0		Marine Thunderstorm Wind (MG 37 kt)
	10/20/18 22:10 EST	0		Source: Buoy
A wind gust of 37 knots was measured at Goose's Reef.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- CUCKOLD CREEK (CCK) [38.31, -76.93]				
	10/20/18 22:10 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	10/20/18 22:10 EST	0		Source: Buoy
A wind gust of up to 34 knots was measured at Cuckold Creek.				
CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 8.6 NNE GOOSSES REEF BUOY (44062) [38.67, -76.34]				
	10/20/18 22:18 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	10/20/18 22:58 EST	0		Source: Buoy
A wind gust of up to 34 knots was measured at Blackwalnut Harbor.				
CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- MID BAY BUOY [38.47, -76.38]				
	10/20/18 22:18 EST	0		Marine Thunderstorm Wind (MG 39 kt)
	10/20/18 22:42 EST	0		Source: Buoy
A wind gust of 39 knots was measured at Cove Point.				
CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- GOOSSES REEF BUOY (44062) [38.56, -76.41]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	10/20/18 22:20 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	10/20/18 22:20 EST		0	Source: Buoy

A wind gust of up to 34 knots was measured at Goose's Reef.

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

	10/20/18 22:20 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	10/20/18 22:20 EST		0	Source: AWOS

A wind gust of up to 34 knots was measured at Stevensville.

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

	10/20/18 22:24 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	10/20/18 22:24 EST		0	Source: Buoy

A wind gust of up to 34 knots was measured at Cobb Point.

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

	10/20/18 22:30 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	10/20/18 22:30 EST		0	Source: Buoy

A wind gust of up to 34 knots was measured at Solomons Island.

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

	10/20/18 22:30 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	10/20/18 22:36 EST		0	Source: Buoy

A wind gust of 36 knots was measured at Piney Point.

CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- 1.3 E PATUXENT RIVER ASOS (KNAK) [38.29, -76.39]

	10/20/18 22:31 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	10/20/18 22:31 EST		0	Source: ASOS

A wind gust of up to 34 knots was measured at Patuxent River.

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

	10/20/18 22:38 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	10/20/18 22:38 EST		0	Source: Buoy

A wind gust of 35 knots was measured at Lower Hoopers Island.

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

	10/20/18 22:48 EST		0	Marine Thunderstorm Wind (MG 37 kt)
	10/20/18 22:54 EST		0	Source: Buoy

A wind gust of 37 knots was measured at Bishops Head.

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

	10/20/18 23:00 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	10/20/18 23:00 EST		0	Source: Buoy

A wind gust of 35 knots was measured at Thomas Point.

A cold front passed across the waters during the evening hours of October 20th. A band of showers and isolated thunderstorms along the front produced gusty winds across portions of the waters.

DISTRICT OF COLUMBIA

(DC-Z001) DISTRICT OF COLUMBIA

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	10/11/18 21:00 EST		3K	Strong Wind (MAX 43 kt)
	10/12/18 07:00 EST		0	

After Hurricane Michael made landfall near Mexico Beach, Florida with maximum sustained winds of 155 mph and minimum central pressure of 919 mb on Wednesday October 10th, it weakened to a tropical storm as it tracked northeastward through Georgia and South Carolina. The tropical storm then tracked across North Carolina and southeast Virginia Thursday and Thursday night, October 11th, emerging back into the Atlantic Ocean early Friday morning, October 12th. As the system passed south of the region, heavy rain then caused instances of flooding.

MARYLAND, Central

(MD-Z005) CARROLL, (MD-Z013) PRINCE GEORGES, (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

10/03/18 23:15 EST	0	Dense Fog
10/04/18 08:55 EST	0	

Clear skies, abundant low level moisture, and falling temperatures led to the formation of fog, some of which became locally dense.

(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z014) ANNE ARUNDEL, (MD-Z501) EXTREME WESTERN ALLEGANY, (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

10/08/18 05:00 EST	0	Dense Fog
10/08/18 08:48 EST	0	

High levels of moisture combined with clear skies to create areas of fog, some of which became locally dense.

CHARLES COUNTY --- 0.1 WSW ST CHARLES [38.60, -76.92], 0.1 SW ST CHARLES [38.60, -76.92], 0.2 E ST CHARLES [38.60, -76.92], 0.3 ENE ST CHARLES [38.60, -76.92], 0.2 NE ST CHARLES [38.60, -76.92]

10/11/18 18:54 EST	0	Flood (due to Heavy Rain)
10/11/18 20:54 EST	0	Source: 911 Call Center

Multiple vehicles were stranded in water at least knee high at the intersection of Hamlin and Garner., and also at the intersection of Stone and Garner.

(MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z016) CHARLES

10/11/18 21:00 EST	10K	Strong Wind (MAX 46 kt)
10/12/18 07:00 EST	0	

ST. MARY'S COUNTY --- 0.9 S REDGATE [38.26, -76.60], 0.7 SSW REDGATE [38.26, -76.60], 0.6 S REDGATE [38.26, -76.60], 0.8 S REDGATE [38.26, -76.60]

10/11/18 21:01 EST	0	Flood (due to Heavy Rain)
10/11/18 23:01 EST	0	Source: Department of Highways

MD-5 Point Lookout Road was closed due to flooding near Moll Dyer Road and Saint Margarets Drive.

CHARLES COUNTY --- 0.9 SSE WALDORF [38.62, -76.92], 0.9 SSE WALDORF [38.62, -76.92], 0.9 SSE WALDORF [38.62, -76.92], 0.9 SSE WALDORF [38.62, -76.92]

10/11/18 21:31 EST	0	Flood (due to Heavy Rain)
10/11/18 23:31 EST	0	Source: Department of Highways

MD-925 was closed due to flooding near Terrace Drive.

CHARLES COUNTY --- 1.8 NE BERRY [38.67, -76.93], 3.1 ENE BRYANS ROAD [38.64, -77.01], 1.4 ENE PISGAH [38.54, -77.11], 1.0 SE WELCOME [38.47, -77.09], 1.2 NW NEWPORT [38.43, -76.91], 1.8 ESE DUBOIS [38.47, -76.80], 1.5 SE GALLANT GREEN [38.58, -76.76], 2.6 E MATTAWOMAN [38.65, -76.83]

10/11/18 21:46 EST	0	Flood (due to Heavy Rain)
10/11/18 23:46 EST	0	Source: 911 Call Center

Widespread road closures were reported across the county due to flooding. Some roads were suspected to be washed out.

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ST. MARY'S COUNTY --- 1.5 WNW HUNTERVILLE [38.48, -76.75], 3.8 W THOMPSON CORNER [38.45, -76.87], 4.7 WNW MILLS PT SHRS [38.36, -76.91], 0.3 NNE MILESTOWN [38.28, -76.77], 0.6 E BEAUVUE [38.25, -76.62], 1.0 S GREAT MILLS [38.22, -76.50], 1.4 NE LNDRDTWN ST MARYS ARP [38.33, -76.53], 1.4 NE LAUREL GROVE [38.43, -76.66]				
	10/11/18 21:47 EST		0	Flood (due to Heavy Rain)
	10/11/18 23:47 EST		0	Source: 911 Call Center
Numerous roads were closed throughout the county due to high water.				
CALVERT COUNTY --- 2.2 NNW PRINCE FREDERICK [38.56, -76.56], 2.2 NNW PRINCE FREDERICK [38.56, -76.56], 2.2 NNW PRINCE FREDERICK [38.56, -76.56], 2.2 NNW PRINCE FREDERICK [38.56, -76.56]				
	10/11/18 22:15 EST		0	Flood (due to Heavy Rain)
	10/12/18 00:15 EST		0	Source: Broadcast Media
Clay Hammond Road was closed near Kingswood Drive due to flooding.				
CALVERT COUNTY --- 1.4 S CHANEYVILLE [38.66, -76.65], 1.5 S CHANEYVILLE [38.66, -76.65], 1.5 S CHANEYVILLE [38.66, -76.65], 1.4 S CHANEYVILLE [38.66, -76.65]				
	10/11/18 22:23 EST		0	Flood (due to Heavy Rain)
	10/12/18 00:23 EST		0	Source: Broadcast Media
MD-262 Lower Marlboro Road was closed due to flooding near Briscoe Turn Road.				
(MD-Z017) ST. MARY'S, (MD-Z018) CALVERT				
	10/11/18 22:28 EST		10K	High Wind (MAX 54 kt)
	10/12/18 03:12 EST		0	
CHARLES COUNTY --- 0.8 SW IRONSIDES [38.49, -77.16], 0.8 SW IRONSIDES [38.49, -77.16], 0.8 SW IRONSIDES [38.49, -77.16], 0.7 SW IRONSIDES [38.49, -77.16]				
	10/11/18 22:35 EST		0	Flood (due to Heavy Rain)
	10/12/18 00:35 EST		0	Source: Broadcast Media
MD-425 Ironsides Road was closed due to flooding near MD-6 Port Tobacco Road.				
PRINCE GEORGE'S COUNTY --- 0.4 NE AQUASCO [38.58, -76.73], 0.5 NE AQUASCO [38.58, -76.72], 0.7 NE AQUASCO [38.59, -76.72], 0.6 NNE AQUASCO [38.59, -76.73]				
	10/11/18 22:53 EST		0	Flood (due to Heavy Rain)
	10/12/18 00:53 EST		0	Source: Broadcast Media
MD-381 Aquasco Road was closed due to flooding near Saint Marys Church Road.				
CHARLES COUNTY --- 0.7 N PATUXENT [38.54, -76.75], 0.7 N PATUXENT [38.54, -76.75], 0.8 NNE PATUXENT [38.54, -76.75], 0.6 NNE PATUXENT [38.54, -76.75]				
	10/11/18 23:06 EST		0	Flood (due to Heavy Rain)
	10/12/18 01:06 EST		0	Source: Department of Highways
MD-381 Brandywine Road was closed due to flooding near MD-231 Prince Frederick Road.				
ST. MARY'S COUNTY --- 1.0 NNW GREAT MILLS [38.24, -76.50], 0.8 NNW GREAT MILLS [38.24, -76.50], 0.6 NNW GREAT MILLS [38.24, -76.50], 0.7 N GREAT MILLS [38.24, -76.50], 1.0 N GREAT MILLS [38.24, -76.50]				
	10/12/18 01:30 EST		0	Flood (due to Heavy Rain)
	10/12/18 02:30 EST		0	Source: River/Stream Gage
The stream gauge on Saint Marys River near Great Mills touched minor flood stage of 6 feet at 1:30 AM EST. At 6 feet, Flat Iron Road begins to flood with water in some yards.				
ANNE ARUNDEL COUNTY --- 0.8 SE CROFTON [38.99, -76.64], 1.0 SE CROFTON [38.99, -76.64], 1.3 N RUTLAND [38.99, -76.63], 1.2 ESE CROFTON [38.99, -76.63]				
	10/12/18 03:10 EST		0	Flood (due to Heavy Rain)
	10/12/18 05:10 EST		0	Source: Department of Highways
MD-450 Defense Highway was closed due to flooding near Huntwood Drive.				

Storm Data and Unusual Weather Phenomena - October 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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CHARLES COUNTY --- 0.7 ESE INDIAN HD MRYLND ARP [38.60, -77.06], 0.9 ESE INDIAN HD MRYLND ARP [38.59, -77.06], 1.0 ESE INDIAN HD MRYLND ARP [38.59, -77.05], 0.8 E INDIAN HD MRYLND ARP [38.60, -77.05]

10/12/18 05:42 EST	0	Flood (due to Heavy Rain)
10/12/18 17:03 EST	0	Source: River/Stream Gage

Mattawoman Creek was out of its banks. The creek passed flood stage of 7 feet at 5:42 AM EST and crested at 7.62 feet at 9:15 AM EST. At 7 feet, Pomfret Road begins to flood.

CHARLES COUNTY --- 0.6 NNW INDIAN HD MRYLND ARP [38.61, -77.07], 0.6 NNW INDIAN HD MRYLND ARP [38.61, -77.07], 0.6 N INDIAN HD MRYLND ARP [38.61, -77.07], 0.6 NNW INDIAN HD MRYLND ARP [38.61, -77.07]

10/12/18 06:41 EST	0	Flood (due to Heavy Rain)
10/12/18 08:41 EST	0	Source: Department of Highways

Pomfret Road at Livingston Road was closed due to high water.

After Hurricane Michael made landfall near Mexico Beach, Florida with maximum sustained winds of 155 mph and minimum central pressure of 919 mb on Wednesday October 10th, it weakened to a tropical storm as it tracked northeastward through Georgia and South Carolina. The tropical storm then tracked across North Carolina and southeast Virginia Thursday and Thursday night, October 11th, emerging back into the Atlantic Ocean early Friday morning, October 12th. As the system passed south of the region, heavy rain then caused instances of flooding, and strong winds brought down trees. Across Maryland, maximum sustained winds reached 38 mph, peak wind gusts reached 62 mph, and some rainfall totals were observed in excess of 6 inches.

(MD-Z501) EXTREME WESTERN ALLEGANY, (MD-Z502) CENTRAL AND EASTERN ALLEGANY

10/19/18 00:00 EST	0	Frost/Freeze
10/19/18 08:00 EST	0	

Canadian high pressure moving overhead led to clear skies and light winds which allowed for radiational cooling and temperatures to fall below freezing.

(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD

10/21/18 23:00 EST	0	Frost/Freeze
10/22/18 09:00 EST	0	

High pressure moving overhead led to clear skies and light winds which allowed for radiational cooling and temperatures to fall below freezing.

VIRGINIA, North

(VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM, (VA-Z055) STAFFORD, (VA-Z502) SOUTHERN FAUQUIER

10/03/18 23:15 EST	0	Dense Fog
10/04/18 08:55 EST	0	

Clear skies, abundant low level moisture, and falling temperatures led to the formation of fog, some of which became locally dense.

(VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z031) CLARKE, (VA-Z036) NELSON, (VA-Z037) ALBEMARLE, (VA-Z038) GREENE, (VA-Z039) MADISON

10/07/18 05:11 EST	0	Dense Fog
10/07/18 09:00 EST	0	

High pressure over the Mid-Atlantic states led to clearing skies and falling temperatures, which helped to produce areas of fog, some of which became locally dense.

(VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z036) NELSON, (VA-Z037) ALBEMARLE, (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, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE

10/08/18 01:55 EST	0	Dense Fog
10/08/18 09:55 EST	0	

Storm Data and Unusual Weather Phenomena - October 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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High levels of moisture combined with clear skies to create areas of fog, some of which became locally dense.

(VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z029) PAGE, (VA-Z030) WARREN

10/10/18 04:50 EST	0	Dense Fog
10/10/18 08:10 EST	0	

High pressure and light southeast flow combined with abundant low level moisture to produce areas of fog, some of which became locally dense.

ALBEMARLE COUNTY --- 59.3 N MADISONVILLE [38.02, -78.49], 59.4 N MADISONVILLE [38.03, -78.49], 58.7 N MADISONVILLE [38.02, -78.50], 58.7 N MADISONVILLE [38.02, -78.49]

10/11/18 14:30 EST	0	Flood (due to Heavy Rain)
10/11/18 16:30 EST	0	Source: 911 Call Center

Fifth street SW was closed due to flooding between Brockwood Drive and Cherry Avenue.

SPOTSYLVANIA COUNTY --- 1.8 WSW CHANCELLOR [38.26, -77.63]

10/11/18 15:00 EST	0	Thunderstorm Wind (EG 50 kt)
10/11/18 15:00 EST	0	Source: NWS Employee

A large tree was blown down in the 11400 block of Catharpin Road between Catharpin Landing Road and Piney Branch Road.

(VA-Z036) NELSON, (VA-Z037) ALBEMARLE, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (VA-Z055) STAFFORD, (VA-Z057) KING GEORGE

10/11/18 15:00 EST	24K	Strong Wind (MAX 40 kt)
10/12/18 07:00 EST	0	

ALBEMARLE COUNTY --- 1.1 NNW NORTH GARDEN [37.95, -78.66], 0.7 SSW RED HILL [37.96, -78.62], 2.1 ENE RED HILL [37.98, -78.58], 2.2 NE RED HILL [37.99, -78.60], 1.9 WNW RED HILL [37.98, -78.65]

10/11/18 16:08 EST	0	Flood (due to Heavy Rain)
10/11/18 18:08 EST	0	Source: 911 Call Center

Water was covering Monacan Trail Road at numerous intersections.

STAFFORD COUNTY --- 0.6 N MIDWAY IS [38.51, -77.37], 0.4 NNW MIDWAY IS [38.51, -77.37], 0.5 NNW MIDWAY IS [38.51, -77.37], 0.7 N MIDWAY IS [38.51, -77.37]

10/11/18 16:23 EST	0	Flood (due to Heavy Rain)
10/11/18 18:23 EST	0	Source: 911 Call Center

US-1 Jefferson Davis Highway was closed due to flooding near Telegraph Road.

ORANGE COUNTY --- 0.6 E GOLDDALE [38.27, -77.79], 0.7 SW GOLDDALE [38.26, -77.81], 0.6 WSW GOLDDALE [38.27, -77.81], 0.4 ENE GOLDDALE [38.27, -77.79]

10/11/18 16:42 EST	0	Flood (due to Heavy Rain)
10/11/18 18:42 EST	0	Source: Emergency Manager

Old Plank road was impassable due to flooding near the intersection with Gold Dale Road.

PRINCE WILLIAM COUNTY --- 0.8 W DUMFRIES [38.57, -77.34], 0.8 W DUMFRIES [38.57, -77.34], 0.5 WSW DUMFRIES [38.57, -77.34], 0.4 W DUMFRIES [38.57, -77.34]

10/11/18 16:45 EST	0	Flood (due to Heavy Rain)
10/11/18 18:45 EST	0	Source: Emergency Manager

Water was flowing over Mine Road and the roadway was impassable.

ORANGE COUNTY --- 1.2 NW WILDERNESS [38.34, -77.74], 1.1 NW WILDERNESS [38.34, -77.74], 1.2 NW WILDERNESS [38.34, -77.74], 1.2 NW WILDERNESS [38.34, -77.74]

10/11/18 16:57 EST	0	Flood (due to Heavy Rain)
10/11/18 18:57 EST	0	Source: Emergency Manager

Route 3 was closed due to standing water near the intersection with Pilgrim Church Road.

Storm Data and Unusual Weather Phenomena - October 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
SPOTSYLVANIA COUNTY --- 1.1 NNW BROCKROAD [38.28, -77.69], 0.9 NNW BROCKROAD [38.28, -77.68], 0.9 N BROCKROAD [38.28, -77.68], 1.2 NNW BROCKROAD [38.29, -77.69]				
	10/11/18 17:30 EST	0		Flood (due to Heavy Rain)
	10/11/18 19:30 EST	0		Source: 911 Call Center
Brock Road was closed due to flooding near the intersection with Herndon Road.				
SPOTSYLVANIA COUNTY --- 2.9 E LOGAN [38.22, -77.72], 2.9 E LOGAN [38.22, -77.72], 3.0 E LOGAN [38.22, -77.72], 3.0 E LOGAN [38.22, -77.72]				
	10/11/18 17:30 EST	0		Flood (due to Heavy Rain)
	10/11/18 19:30 EST	0		Source: 911 Call Center
A car was stuck in water along West Catharpin Road near Pamunkey Road. The road was closed due to high water.				
STAFFORD COUNTY --- 1.3 SSW MOUNTAIN VIEW [38.45, -77.48], 1.1 SSW MOUNTAIN VIEW [38.46, -77.48], 1.1 SSW MOUNTAIN VIEW [38.46, -77.48], 1.3 SSW MOUNTAIN VIEW [38.45, -77.48]				
	10/11/18 17:58 EST	0		Flood (due to Heavy Rain)
	10/11/18 19:58 EST	0		Source: 911 Call Center
Wintergreen lane was closed due to flooding near Shelton Shop Road.				
STAFFORD COUNTY --- 1.8 W ROSEVILLE [38.47, -77.55], 1.6 W ROSEVILLE [38.47, -77.55], 1.7 W ROSEVILLE [38.47, -77.55], 1.8 W ROSEVILLE [38.47, -77.55]				
	10/11/18 17:58 EST	0		Flood (due to Heavy Rain)
	10/11/18 19:58 EST	0		Source: 911 Call Center
Poplar Road was closed due to flooding near Mountain View Road.				
STAFFORD COUNTY --- 1.2 WNW FERRY FARMS [38.33, -77.45], 1.2 WNW FERRY FARMS [38.33, -77.45], 1.2 ENE FALMOUTH [38.33, -77.45], 1.2 WNW FERRY FARMS [38.33, -77.45]				
	10/11/18 18:30 EST	0		Flash Flood (due to Heavy Rain)
	10/11/18 20:30 EST	0		Source: Emergency Manager
Harrell Road was closed due to high water.				
KING GEORGE COUNTY --- 0.5 W KING GEORGE [38.27, -77.18], 1.5 SSW BERTHAVILLE [38.31, -77.13], 0.9 SW AMBAR [38.31, -77.19], 0.7 NNE IGO [38.29, -77.26], 0.9 NW LAMBS CREEK [38.26, -77.28], 1.1 WNW MONTAGUE [38.24, -77.20]				
	10/11/18 20:15 EST	0		Flood (due to Heavy Rain)
	10/11/18 22:15 EST	0		Source: 911 Call Center
There were reports of flooded roads across the entire county, including near the intersection of U.S. 301 and Sunset Lane.				
ALBEMARLE COUNTY --- 1.7 NNE SCOTTSVILLE [37.82, -78.48], 1.7 NE SCOTTSVILLE [37.82, -78.48], 1.7 NE SCOTTSVILLE [37.82, -78.48], 1.7 NNE SCOTTSVILLE [37.82, -78.48]				
	10/11/18 21:00 EST	0		Flash Flood (due to Heavy Rain)
	10/11/18 23:00 EST	0		Source: Department of Highways
Albevanna Spring Road was closed at Pat Dennis Road due to high water.				
KING GEORGE COUNTY --- 0.7 NNE DOGUE [38.24, -77.21], 0.7 NNE DOGUE [38.24, -77.21], 0.6 NNE DOGUE [38.24, -77.21], 0.7 NNE DOGUE [38.24, -77.21]				
	10/11/18 21:00 EST	0		Flash Flood (due to Heavy Rain)
	10/11/18 23:00 EST	0		Source: Department of Highways
Port Conway Road was washed out at Powhatan Road.				
ORANGE COUNTY --- 2.7 WSW DANIEL [38.15, -78.07], 2.7 WSW DANIEL [38.15, -78.07], 2.7 WSW DANIEL [38.15, -78.07], 2.7 WSW DANIEL [38.15, -78.07]				
	10/11/18 21:00 EST	0		Flash Flood (due to Heavy Rain)
	10/11/18 23:00 EST	0		Source: Department of Highways
Mallorys Ford Road was closed at Shelton Lane.				

Storm Data and Unusual Weather Phenomena - October 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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After Hurricane Michael made landfall near Mexico Beach, Florida with maximum sustained winds of 155 mph and a minimum central pressure of 919 mb on Wednesday October 10th, it weakened to a tropical storm as it tracked northeastward through Georgia and South Carolina. The tropical storm then tracked across North Carolina and southeast Virginia Thursday and Thursday night, October 11th, emerging back into the Atlantic Ocean early Friday morning, October 12th. Ahead of the tropical storm, the strong low level wind field combined with some instability ahead of the storm to generate bands of showers and thunderstorms, one of which became severe. As the system passed south of the region, heavy rain then caused instances of flooding, and strong winds brought down trees. Across Virginia, maximum sustained winds reached 35 mph, peak wind gusts reached 46 mph, and some rainfall totals were observed in excess of 6 inches.

(VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND

10/19/18 00:00 EST	0	Frost/Freeze
10/19/18 08:00 EST	0	

Canadian high pressure moving overhead led to clear skies and light winds which allowed for radiational cooling and temperatures to fall below freezing.

(VA-Z025) AUGUSTA, (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-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE

10/21/18 23:00 EST	0	Frost/Freeze
10/22/18 09:00 EST	0	

High pressure moving overhead led to clear skies and light winds which allowed for radiational cooling and temperatures to fall below freezing.

WEST VIRGINIA, East

(WV-Z050) HAMPSHIRE, (WV-Z055) HARDY, (WV-Z502) EASTERN GRANT, (WV-Z504) EASTERN MINERAL

10/03/18 23:15 EST	0	Dense Fog
10/04/18 08:55 EST	0	

Clear skies, abundant low level moisture, and falling temperatures led to the formation of fog, some of which became locally dense.

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

10/07/18 04:15 EST	0	Dense Fog
10/07/18 08:51 EST	0	

Observations from around the area indicate visibility fell to a quarter of a mile or less in dense fog.

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

10/08/18 00:15 EST	0	Dense Fog
10/08/18 08:48 EST	0	

High levels of moisture combined with clear skies to create areas of fog, some of which became locally dense.

(WV-Z055) HARDY, (WV-Z502) EASTERN GRANT, (WV-Z506) EASTERN PENDLETON

10/10/18 04:50 EST	0	Dense Fog
10/10/18 08:15 EST	0	

High pressure and light southeast flow combined with abundant low level moisture to produce areas of fog, some of which became locally dense.

(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

Storm Data and Unusual Weather Phenomena - October 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	10/19/18 00:00 EST		0	Frost/Freeze
	10/19/18 08:00 EST		0	

Canadian high pressure moving overhead led to clear skies and light winds which allowed for radiational cooling and temperatures to fall below freezing.