

Storm Data and Unusual Weather Phenomena - March 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ATLANTIC NORTH				
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- POINT LOOKOUT (PTL) [38.04, -76.32]				
	03/15/19 19:34 EST	0		Marine Thunderstorm Wind (MG 35 kt)
	03/15/19 19:34 EST	0		Source: Mesonet
A wind gust of 35 knots was measured at Point Lookout.				
CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- (KMTN)MARTIN STATE AIRPORT [39.33, -76.42]				
	03/15/19 19:45 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	03/15/19 19:45 EST	0		Source: ASOS
A wind gust of up to 34 knots was observed at Martin State Airport.				
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- BALTIMORE KEY BRIDGE (FSKM2) [39.22, -76.53]				
	03/15/19 20:00 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	03/15/19 20:00 EST	0		Source: Mesonet
A wind gust of 34 knots was measured near the Baltimore Francis Scott Key Bridge.				
TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- BISHOPS HEAD (BISM2) [38.22, -76.04]				
	03/15/19 20:06 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	03/15/19 20:06 EST	0		Source: Mesonet
A wind gust of up to 34 knots was observed at Bishops Head.				
A surface cold front crossed the region during the afternoon and evening hours as mild southerly flow increased out ahead of it. This led to the development of some minor instability across the area, and this, when combined with the frontal boundary and strong mid level winds, was enough to generate showers and thunderstorms, some of which produced gusty winds over the waters.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- GREENBERRY POINT (GBY) [38.97, -76.46]				
	03/22/19 14:35 EST	0		Marine Thunderstorm Wind (MG 38 kt)
	03/22/19 15:30 EST	0		Source: Buoy
A wind gust of 38 knots was measured at Greenbury Point.				
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- BALTIMORE KEY BRIDGE (FSKM2) [39.22, -76.53]				
	03/22/19 14:36 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	03/22/19 15:18 EST	0		Source: Mesonet
A wind gust of up to 34 knots was measured near the Baltimore Francis Scott Key Bridge.				
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- WASHINGTON DC (WASD2) [38.87, -77.02]				
	03/22/19 15:06 EST	0		Marine Thunderstorm Wind (MG 37 kt)
	03/22/19 15:06 EST	0		Source: Mesonet
A wind gust of 37 knots was measured near Washington DC.				
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- (DCA)REAGAN NATIONAL AIRPORT [38.86, -77.03]				
	03/22/19 15:09 EST	0		Marine Thunderstorm Wind (MG 51 kt)
	03/22/19 15:10 EST	0		Source: ASOS
A wind gust of 51 knots was measured at Washington Reagan National Airport.				
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- NATIONALS PARK (WSHNP) [38.87, -77.01]				
	03/22/19 15:09 EST	0		Marine Thunderstorm Wind (MG 39 kt)
	03/22/19 15:14 EST	0		Source: Mesonet
A wind gust of 39 knots was measured near Nationals Park.				
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- HAMPSTEAD HILL ACADEMY (BLMHH) [39.29, -76.58]				

Storm Data and Unusual Weather Phenomena - March 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/22/19 15:10 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	03/22/19 15:10 EST		0	Source: Mesonet

A wind gust of 36 knots was measured near Baltimore.

CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- TOLCHESTER MD (TCBM2) [39.32, -76.25]

	03/22/19 15:12 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	03/22/19 15:12 EST		0	Source: Buoy

A wind gust of up to 34 knots was observed at Tolchester.

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.6 E BABAR POINT (BAB) [38.31, -77.00]

	03/22/19 15:14 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	03/22/19 15:14 EST		0	Source: Mesonet

A wind gust of up to 34 knots was observed at Pylons.

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

	03/22/19 15:14 EST		0	Marine Thunderstorm Wind (MG 40 kt)
	03/22/19 15:19 EST		0	Source: Mesonet

A wind gust of 40 knots was measured at Potomac Light 33.

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

	03/22/19 15:17 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	03/22/19 15:17 EST		0	Source: Buoy

A wind gust of up to 34 knots was observed at Monroe Creek.

TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- LYLES-CROUCH ACADEMY (AXDRA) [38.80, -77.05]

	03/22/19 15:19 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	03/22/19 15:19 EST		0	Source: Mesonet

A wind gust of 36 knots was measured near Alexandria.

TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- LONG BRANCH ES (ARLNL) [38.87, -77.09]

	03/22/19 15:20 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	03/22/19 15:20 EST		0	Source: Mesonet

A wind gust of 38 knots was measured near Arlington.

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 3.0 SE LEESYLVANIA STATE PARK (LSLVN) [38.64, -77.21]

	03/22/19 15:21 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	03/22/19 15:26 EST		0	Source: Mesonet

A wind gust of 36 knots was measured near Occoquan.

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

	03/22/19 15:22 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	03/22/19 15:22 EST		0	Source: Mesonet

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

CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- KENT ISLAND (KNT) [38.92, -76.36]

	03/22/19 15:30 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	03/22/19 15:40 EST		0	Source: Mesonet

A wind gust of up to 34 knots was observed at Kent Island.

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

	03/22/19 15:31 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	03/22/19 15:36 EST		0	Source: Mesonet

Storm Data and Unusual Weather Phenomena - March 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A wind gust of 38 knots was measured at Tolly Point.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- QUANTICO (KNYG) [38.51, -77.30]				
	03/22/19 15:34 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	03/22/19 16:00 EST		0	Source: AWOS
A wind gust of 38 knots was measured at Quantico.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- (KW29)BAY BRIDGE AIRPORT [38.98, -76.33]				
	03/22/19 15:40 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	03/22/19 15:40 EST		0	Source: AWOS
A wind gust of up to 34 knots was observed at the Bay Bridge Airport.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- HERRING BAY (HRB) [38.73, -76.54]				
	03/22/19 15:41 EST		0	Marine Thunderstorm Wind (MG 42 kt)
	03/22/19 15:46 EST		0	Source: Buoy
A wind gust of 42 knots was measured at Herring Bay.				
CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 9.1 NNE GOOSSES REEF BUOY (44062) [38.68, -76.33]				
	03/22/19 15:54 EST		0	Marine Thunderstorm Wind (MG 41 kt)
	03/22/19 15:59 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]				
	03/22/19 16:00 EST		0	Marine Thunderstorm Wind (MG 43 kt)
	03/22/19 16:00 EST		0	Source: Buoy
A wind gust of 43 knots was measured at Thomas Point.				
CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 8.7 NNE GOOSSES REEF BUOY (44062) [38.67, -76.33]				
	03/22/19 16:04 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	03/22/19 16:14 EST		0	Source: Buoy
A wind gust of 35 knots was measured at Blackwalnut Harbor.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- POTOMAC LIGHT 33 (LT3) [38.34, -76.99]				
	03/22/19 16:04 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	03/22/19 16:34 EST		0	Source: Buoy
A wind gust of 38 knots was measured at Potomac Light 33.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- BABAR POINT (BAB) [38.31, -77.03]				
	03/22/19 16:06 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	03/22/19 16:26 EST		0	Source: Buoy
A wind gust of 38 knots was measured at Babar Point.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- CUCKOLD CREEK (CCK) [38.31, -76.93]				
	03/22/19 16:07 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	03/22/19 16:37 EST		0	Source: Buoy
A wind gust of 36 knots was measured at Cuckold Creek.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 1.6 E BABAR POINT (BAB) [38.31, -77.00]				
	03/22/19 16:09 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	03/22/19 16:34 EST		0	Source: Buoy
A wind gust of 36 knots was measured at Pylons.				

Storm Data and Unusual Weather Phenomena - March 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- MONROE CREEK (MON) [38.23, -76.95]				
	03/22/19 16:17 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	03/22/19 16:42 EST		0	Source: Buoy
A wind gust of 38 knots was measured at Monroe Creek.				
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- COBB POINT (COB) [38.24, -76.83]				
	03/22/19 16:19 EST		0	Marine Thunderstorm Wind (MG 41 kt)
	03/22/19 16:29 EST		0	Source: Buoy
A wind gust of 41 knots was measured at Cobb Point.				
CHOPTANK RIVER TO CAMBRIDGE MD AND THE LITTLE CHOPTANK RIVER COUNTY --- CAMBRIDGE (CAMM2) [38.57, -76.07]				
	03/22/19 16:20 EST		0	Marine Thunderstorm Wind (MG 40 kt)
	03/22/19 16:20 EST		0	Source: Mesonet
A wind gust of 40 knots was measured near Cambridge.				
CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- PATUXENT RIVER ASOS (KNAK) [38.29, -76.41]				
	03/22/19 16:30 EST		0	Marine Thunderstorm Wind (MG 43 kt)
	03/22/19 16:30 EST		0	Source: ASOS
A wind gust of 43 knots was measured at Patuxent River Naval Air Station.				
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT (PPTM2) [38.13, -76.53]				
	03/22/19 16:30 EST		0	Marine Thunderstorm Wind (MG 45 kt)
	03/22/19 16:42 EST		0	Source: Buoy
A wind gust of 45 knots was measured at Piney Point.				
CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- LOWER HOOPERS ISLAND (HPR) [38.26, -76.18]				
	03/22/19 16:37 EST		0	Marine Thunderstorm Wind (MG 40 kt)
	03/22/19 16:47 EST		0	Source: Buoy
A wind gust of 40 knots was measured at Lower Hooper Island.				
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- ST INIGOES (KNUI) [38.13, -76.42]				
	03/22/19 16:41 EST		0	Marine Thunderstorm Wind (MG 39 kt)
	03/22/19 16:41 EST		0	Source: AWOS
A wind gust of 39 knots was measured at Saint Inigoes.				
CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- (KMTN)MARTIN STATE AIRPORT [39.33, -76.42]				
	03/22/19 16:45 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	03/22/19 16:45 EST		0	Source: ASOS
A wind gust of 36 knots was measured at Martin State Airport.				
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- ORIOLE PARK AT CAMDEN YARDS (BLTPC) [39.28, -76.62]				
	03/22/19 16:45 EST		0	Marine Thunderstorm Wind (MG 48 kt)
	03/22/19 16:45 EST		0	Source: Mesonet
A wind gust of 48 knots was measured at Oriole Park at Camden Yards.				
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- LEWISSETTA (LWS) [38.00, -76.47]				
	03/22/19 16:48 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	03/22/19 16:54 EST		0	Source: Mesonet
A wind gust of 35 knots was measured at Lewissetta.				
CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- GUNPOWDER (GUN) [39.36, -76.37]				

Storm Data and Unusual Weather Phenomena - March 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/22/19 16:49 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	03/22/19 16:49 EST		0	Source: Mesonet

A wind gust of 38 knots was measured at Gunpowder.

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

	03/22/19 16:52 EST		0	Marine Thunderstorm Wind (MG 47 kt)
	03/22/19 17:47 EST		0	Source: Buoy

A wind gust of 47 knots was measured at Hart Miller Island.

TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- POTOMAC POINT LOOKOUT BUOY (44042) [38.03, -76.34]

	03/22/19 16:54 EST		0	Marine Thunderstorm Wind (MG 39 kt)
	03/22/19 17:00 EST		0	Source: Buoy

A wind gust of 39 knots was measured at Potomac Point Lookout.

PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- HAMPSTEAD HILL ACADEMY (BLMH) [39.29, -76.58]

	03/22/19 16:55 EST		0	Marine Thunderstorm Wind (MG 39 kt)
	03/22/19 16:55 EST		0	Source: Mesonet

A wind gust of 39 knots was measured at Hampstead Hill Academy.

PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- LAKELAND ES AND MS (BLTLK) [39.25, -76.65]

	03/22/19 16:55 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	03/22/19 16:55 EST		0	Source: Mesonet

A wind gust of up to 34 knots was observed near Baltimore.

PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- MARYLAND SCIENCE CENTER (BLMRE) [39.28, -76.61]

	03/22/19 16:55 EST		0	Marine Thunderstorm Wind (EG 39 kt)
	03/22/19 16:55 EST		0	Source: Mesonet

A wind gust of 39 knots was observed at the Maryland Science Center.

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

	03/22/19 16:56 EST		0	Marine Thunderstorm Wind (MG 39 kt)
	03/22/19 16:56 EST		0	Source: Buoy

A wind gust of 39 knots was measured at Point Lookout.

TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- RACCOON POINT (RAC) [38.14, -75.79]

	03/22/19 16:59 EST		0	Marine Thunderstorm Wind (MG 41 kt)
	03/22/19 16:59 EST		0	Source: Buoy

A wind gust of 41 knots was measured at Raccoon Point.

CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- POINT LOOKOUT (PTL) [38.04, -76.32]

	03/22/19 17:01 EST		0	Marine Thunderstorm Wind (MG 41 kt)
	03/22/19 17:06 EST		0	Source: Buoy

A wind gust of 41 knots was measured at Point Lookout.

TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- RACCOON POINT (RAC) [38.14, -75.79]

	03/22/19 17:04 EST		0	Marine Thunderstorm Wind (MG 38 kt)
	03/22/19 17:14 EST		0	Source: Buoy

A wind gust of 38 knots was measured at Raccoon Point.

CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- GREENBERRY POINT (GBY) [38.97, -76.46]

	03/22/19 17:05 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	03/22/19 17:45 EST		0	Source: Buoy

Storm Data and Unusual Weather Phenomena - March 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A wind gust of up to 34 knots was observed at Greenbury Point.

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

03/22/19 17:06 EST	0	Marine Thunderstorm Wind (EG 34 kt)
03/22/19 17:06 EST	0	Source: ASOS

A wind gust of up to 34 knots was observed at Patuxent River Naval Air Station.

TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- CRISFIELD CG (CRS) [37.97, -75.88]

03/22/19 17:08 EST	0	Marine Thunderstorm Wind (MG 43 kt)
03/22/19 17:43 EST	0	Source: Mesonet

A wind gust of 43 knots was measured at Crisfield.

CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- KENT ISLAND (KNT) [38.92, -76.36]

03/22/19 17:10 EST	0	Marine Thunderstorm Wind (EG 34 kt)
03/22/19 17:10 EST	0	Source: Mesonet

A wind gust of up to 34 knots was observed at Kent Island.

TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- CRISFIELD FIRE DEPARTMENT (CRSFL) [37.98, -75.86]

03/22/19 17:10 EST	0	Marine Thunderstorm Wind (MG 47 kt)
03/22/19 17:40 EST	0	Source: Mesonet

A wind gust of 47 knots was measured at Crisfield Fire Department.

TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- POTOMAC POINT LOOKOUT BUOY (44042) [38.03, -76.34]

03/22/19 17:12 EST	0	Marine Thunderstorm Wind (EG 34 kt)
03/22/19 17:12 EST	0	Source: Buoy

A wind gust of up to 34 knots was observed at Potomac Point Lookout.

CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- GROVE POINT (GVP) [39.40, -76.04]

03/22/19 17:22 EST	0	Marine Thunderstorm Wind (MG 41 kt)
03/22/19 17:27 EST	0	Source: Buoy

A wind gust of 41 knots was measured at Grove Point.

CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- SANDY POINT (SPT) [39.01, -76.40]

03/22/19 17:31 EST	0	Marine Thunderstorm Wind (EG 34 kt)
03/22/19 17:31 EST	0	Source: Buoy

A wind gust of up to 34 knots was observed at Sandy Point.

CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- TOLCHESTER MD (TCBM2) [39.32, -76.25]

03/22/19 18:00 EST	0	Marine Thunderstorm Wind (EG 34 kt)
03/22/19 18:00 EST	0	Source: Buoy

A wind gust of up to 34 knots was observed at Tolchester.

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

03/22/19 18:00 EST	0	Marine Thunderstorm Wind (EG 34 kt)
03/22/19 18:00 EST	0	Source: AWOS

A wind gust of up to 34 knots was observed at Bay Bridge Airport.

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

03/22/19 18:00 EST	0	Marine Thunderstorm Wind (EG 34 kt)
03/22/19 18:00 EST	0	Source: Mesonet

A wind gust of up to 34 knots was observed at Thomas Point.

Storm Data and Unusual Weather Phenomena - March 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A potent upper level trough as well as a surface cold front crossed the region during the afternoon of March 22nd. Out ahead of the trough, surface heating and cold upper levels were able to generate marginal amounts of surface instability. This was enough to generate scattered showers and a few thunderstorms as the front and trough passed across the area. Steep low level lapse rates and low freezing levels allowed for some of these thunderstorms to produce gusty winds over the waters.

DISTRICT OF COLUMBIA

(DC-Z001) DISTRICT OF COLUMBIA

03/01/19 00:00 EST			0	Winter Weather
03/01/19 06:00 EST			0	

During the overnight hours of February 28th into the early morning hours of March 1st, an upper level trough moved through the Ohio Valley as an area of surface low pressure moved through North and South Carolina. This helped to foster warm air advection aloft across the region as high pressure positioned over the eastern Great Lakes and New York funneled in cool air at the surface. This led to the development of a wintry mix across the District of Columbia during the early morning hours of March 1st, although snow was the favored precipitation type, and up to one inch accumulated.

DISTRICT OF COLUMBIA COUNTY --- 1.2 SW WALTER REED [38.97, -77.04], 0.6 SW WALTER REED [38.97, -77.04], 0.6 WSW WALTER REED [38.98, -77.04], 0.8 WSW WALTER REED [38.97, -77.04], 1.2 SW WALTER REED [38.97, -77.05]

03/21/19 18:15 EST			0	Flood (due to Heavy Rain)
03/22/19 01:35 EST			0	Source: River/Stream Gage

The stream gage on the Rock Creek in the District of Columbia exceeded the 7 foot flood stage during the indicated period. Water completely completely covered the Rolling Meadows Trailbridge and reached several portions of the Valley Trail between Picnic Areas 7 and 10 in Rock Creek Park. The peak level of 7.54 feet occurred at 10:30 PM on the 21st.

A coastal low formed along the North Carolina coast and tracked northward toward the Delmarva on the 21st. Heavy rainfall spread northward in advance of the low and then wrapped around the backside of the low as it tracked further north. Prolonged moderate to heavy rainfall resulted in around two inches of rain across the District of Columbia, leading to flooding.

DISTRICT OF COLUMBIA COUNTY --- 0.5 W GEORGETOWN [38.92, -77.06]

03/22/19 15:02 EST			0	Thunderstorm Wind (EG 50 kt)
03/22/19 15:02 EST			0	Source: Law Enforcement

A tree was blown down on Waterside Drive Northwest between Rock Creek and Potomac Parkway Northwest and Massachusetts Avenue Northwest.

A potent upper level trough as well as a surface cold front crossed the region during the afternoon of March 22nd. Out ahead of the trough, surface heating and cold upper levels were able to generate marginal amounts of surface instability. This was enough to generate scattered showers and a few thunderstorms as the front and trough passed across the area. Steep low level lapse rates and low freezing levels allowed for some of these thunderstorms to become locally severe.

MARYLAND, Central

(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (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, (MD-Z507) NORTHWEST HARTFORD, (MD-Z508) SOUTHEAST HARTFORD

03/01/19 00:00 EST			0	Winter Weather
03/01/19 06:00 EST			0	

During the overnight hours of February 28th into the early morning hours of March 1st, an upper level trough moved through the Ohio Valley as an area of surface low pressure moved through North and South Carolina. This helped to foster warm air advection aloft across the region as high pressure positioned over the eastern Great Lakes and New York funneled in cool air at the surface. This led to the development of a wintry mix across the state of Maryland during the early morning hours of March 1st, although snow was the favored precipitation type, and several inches accumulated.

(MD-Z003) WASHINGTON, (MD-Z501) EXTREME WESTERN ALLEGANY, (MD-Z502) CENTRAL AND EASTERN ALLEGANY

Storm Data and Unusual Weather Phenomena - March 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/01/19 19:00 EST		0	Winter Weather
	03/02/19 03:00 EST		0	

A low pressure system moved from near North Carolina on the afternoon of March 1st to the nearshore waters of the Delmarva during the overnight hours, to near the benchmark by dawn on March 2nd. This resulted in widespread rain being brought to much of the eastern and southern parts of Maryland, while trace amounts of ice were observed across the western portions of the state.

(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z501) EXTREME WESTERN ALLEGANY, (MD-Z502) CENTRAL AND EASTERN ALLEGANY

03/03/19 13:00 EST	0	Winter Storm
03/03/19 23:59 EST	0	

(MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z507) NORTHWEST HARFORD

03/03/19 13:00 EST	0	Winter Weather
03/03/19 23:59 EST	0	

A low pressure system organized over the southeastern United States on the morning of March 3rd and tracked northeastward to a position near coastal North Carolina by that evening. The low pressure then intensified overnight and moved to a position southeast of Cape Cod by the morning of March 4th. This system brought widespread precipitation to the state of Maryland, with 3 to 6 inches of snow falling across the western portions of the state, and very little to no snow falling along and southeast of Interstate 95 where the majority of the precipitation was rain.

(MD-Z501) EXTREME WESTERN ALLEGANY

03/06/19 01:00 EST	0	Cold/Wind Chill
03/06/19 10:00 EST	0	

An arctic cold front crossed the region during the evening of March 5th, with very cold temperatures and strong northwest winds funneling behind the system from the night of the 5th and into the morning hours on the 6th. This was able to produce wind chill values as low as -10 degrees over the higher terrain near the Allegheny Front.

HARFORD COUNTY --- VALE [39.53, -76.40]

03/15/19 18:28 EST	0	Thunderstorm Wind (EG 50 kt)
03/15/19 18:28 EST	0	Source: State Official

A tree was blown down with wires blocking both sides of the bridge in the 1700 block of Carrs Mill Road. Additionally, a tree was also blown down onto a vehicle near the intersection of Wildwood Drive and Wild Orchard Drive. The car was unoccupied at the time.

A surface cold front crossed the region during the afternoon and evening hours as mild southerly flow increased out ahead of it. This led to the development of some minor instability across the central and eastern portions of Maryland, and this, when combined with the frontal boundary and strong mid level winds, was enough to generate showers and thunderstorms, one of which became severe.

ANNE ARUNDEL COUNTY --- 0.2 NE TIPTON AAF ARPT [39.08, -76.77], 0.9 N TIPTON AAF ARPT [39.09, -76.77], 0.3 WSW FT MEADE JCT [39.12, -76.79], 1.3 WNW FT MEADE JCT [39.13, -76.80], 1.6 NNE MARYLAND CITY [39.12, -76.81], 0.4 WNW TIPTON AAF ARPT [39.08, -76.78]

03/21/19 21:01 EST	0	Flood (due to Heavy Rain)
03/22/19 04:46 EST	0	Source: River/Stream Gage

The river gage on the Little Patuxent River at Savage exceeded the 10 foot flood stage during the indicated period. Riverside trails were flooded. Additionally, water approached Brock Bridge Road, as well as fields off of Bald Eagle Drive. The peak level of 12.02 feet occurred at 11:45 PM on the 22nd.

HOWARD COUNTY --- 0.7 NW ELKRIDGE [39.23, -76.73], 1.4 NW ELKRIDGE [39.23, -76.74], 1.2 SE ILCHESTER [39.24, -76.75], 1.3 ESE ILCHESTER [39.24, -76.75], 1.2 NW ELKRIDGE [39.23, -76.74], 0.8 NNW ELKRIDGE [39.23, -76.73]

03/21/19 23:34 EST	0	Flood (due to Heavy Rain)
03/22/19 04:50 EST	0	Source: River/Stream Gage

The river gage on the Patapsco River at ElkrIDGE exceeded the 15 foot flood stage during the indicated period. Water covered a portion of River Road in Patapsco Valley State Park, and large portions of the park were flooded near the playground off Gunn Road. The peak level of 16.04 feet occurred at 1:40 AM on the 22nd.

HARFORD COUNTY --- 0.4 SW SINGER [39.48, -76.34], 0.6 SW SINGER [39.47, -76.34], 0.9 SSW SINGER [39.47, -76.34], 1.5 S SINGER [39.46, -76.32], 1.3 WNW VAN BIBBER [39.45, -76.32], 1.2 WNW VAN BIBBER [39.45, -76.32], 1.4 WNW VAN BIBBER [39.46, -76.32]

03/22/19 00:26 EST	0	Flood (due to Heavy Rain)
03/22/19 03:51 EST	0	Source: River/Stream Gage

Storm Data and Unusual Weather Phenomena - March 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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The stream gage on Otter Point Creek at Edgewood exceeded the 8 foot flood stage during the indicated period. Winters Run Road was flooded near Singer Road. The peak level of 8.58 feet occurred at 2:00 AM on the 22nd.

A coastal low formed along the North Carolina coast and tracked northward toward the Delmarva on the 21st. Heavy rainfall spread northward in advance of the low and then wrapped around the backside of the low as it tracked further north. Prolonged moderate to heavy rainfall resulted in two to three and a half inches of rain across portions of Maryland, leading to numerous instances of flooding.

MONTGOMERY COUNTY --- 2.1 SSW ROCKVILLE [39.05, -77.16]

03/22/19 14:49 EST		0		Thunderstorm Wind (EG 50 kt)
03/22/19 14:49 EST		0		Source: 911 Call Center

A tree was blown down in the 7800 block of Ivymount Terrace.

MONTGOMERY COUNTY --- 1.5 NNW WOODHAVEN [39.02, -77.14]

03/22/19 14:53 EST		0		Thunderstorm Wind (EG 50 kt)
03/22/19 14:53 EST		0		Source: Department of Highways

A tree was blown down alongside Interstate 270 near Democracy Boulevard.

MONTGOMERY COUNTY --- 1.1 E EMERY CORNERS [38.98, -77.15]

03/22/19 14:54 EST		0		Thunderstorm Wind (EG 50 kt)
03/22/19 14:54 EST		0		Source: Public

The top half of a large hardwood tree was snapped off on Loch Lomond Drive.

MONTGOMERY COUNTY --- 1.5 SSW LUXMANOR [39.03, -77.13]

03/22/19 14:55 EST		0		Thunderstorm Wind (MG 50 kt)
03/22/19 14:55 EST		0		Source: Mesonet

A wind gust to 50 knots (58 mph) was measured at Walter Johnson High School. Nearby, a tree was blown down blocking the ramp from MD Route 187 to Interstate 495.

PRINCE GEORGE'S COUNTY --- EAST PINES [38.95, -76.92]

03/22/19 15:10 EST		0		Thunderstorm Wind (MG 50 kt)
03/22/19 15:10 EST		0		Source: Mesonet

A wind gust of 50 knots (58 mph) was measured at Templeton Elementary School.

PRINCE GEORGE'S COUNTY --- 2.1 E LARGO [38.90, -76.79]

03/22/19 15:15 EST		0		Thunderstorm Wind (EG 50 kt)
03/22/19 15:15 EST		0		Source: Department of Highways

A tree was blown down near the intersection of MD Route 193 and MD Route 214.

ANNE ARUNDEL COUNTY --- 0.5 E CUMBERSTONE [38.85, -76.54]

03/22/19 15:30 EST		0		Thunderstorm Wind (MG 50 kt)
03/22/19 15:30 EST		0		Source: Mesonet

A wind speed of 50 knots (58 mph) was measured at the Galesville mesonet.

CALVERT COUNTY --- 1.3 ENE PARIS [38.71, -76.56]

03/22/19 15:42 EST		0		Thunderstorm Wind (EG 50 kt)
03/22/19 15:42 EST		0		Source: State Official

A tree was blown onto a house in the 9600 block of Ridge View Drive.

A potent upper level trough as well as a surface cold front crossed the region during the afternoon of March 22nd. Out ahead of the trough, surface heating and cold upper levels were able to generate marginal amounts of surface instability. This was enough to generate scattered showers and a few thunderstorms as the front and trough passed across the area. Steep low level lapse rates and low freezing levels allowed for some of these thunderstorms to become locally severe.

Storm Data and Unusual Weather Phenomena - March 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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VIRGINIA, North

(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z040) RAPPAHANNOCK, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (VA-Z501) NORTHERN FAUQUIER, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE

03/01/19 00:00 EST	0	Winter Weather
03/01/19 06:00 EST	0	

During the overnight hours of February 28th into the early morning hours of March 1st, an upper level trough moved through the Ohio Valley as an area of surface low pressure moved through North and South Carolina. This helped to foster warm air advection aloft across the region as high pressure positioned over the eastern Great Lakes and New York funneled in cool air at the surface. This led to the development of a wintry mix across central and northern Virginia during the early morning hours of March 1st, although snow was the favored precipitation type, and several inches accumulated.

(VA-Z025) AUGUSTA, (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, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE

03/01/19 17:00 EST	0	Winter Weather
03/02/19 03:00 EST	0	

A low pressure system moved from near North Carolina on the afternoon of March 1st to the nearshore waters of the Delmarva during the overnight hours, to near the benchmark by dawn on March 2nd. This resulted in widespread rain being brought to much of Virginia, along with trace amounts of ice to parts of far northern and western portions of the state.

(VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z040) RAPPAHANNOCK, (VA-Z501) NORTHERN FAUQUIER, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE

03/03/19 13:00 EST	0	Winter Weather
03/03/19 23:59 EST	0	

A low pressure system organized over the southeastern United States on the morning of March 3rd and tracked northeastward to a position near coastal North Carolina by that evening. The low pressure then intensified overnight and moved to a position southeast of Cape Cod by the morning of March 4th. This system brought widespread precipitation to northern and central Virginia, with several inches of snow falling across the western portions of the state, and very little to no snow falling southeast of the Blue Ridge where the majority of the precipitation was rain. An accumulation of ice was also observed in some locations.

(VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE

03/06/19 01:00 EST	0	Cold/Wind Chill
03/06/19 10:00 EST	0	

An arctic cold front crossed the region during the evening of March 5th, with very cold temperatures and strong northwest winds funneling behind the system from the night of the 5th and into the morning hours on the 6th. This was able to produce wind chill values as low as -10 degrees over the higher terrain near the Allegheny Front and Blue Ridge.

(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE

03/08/19 04:00 EST	0	Winter Weather
03/08/19 19:00 EST	0	

During the overnight hours of March 7th and into the early morning hours of the 8th, surface high pressure was positioned offshore of the Northeastern United States' coastline as a weak area of surface low pressure passed south of the region across North and South Carolina. This led to modest warm air advection and light precipitation amounts, although enough for some snow accumulations across portions of central and western Virginia, mainly across the higher elevations. Precipitation then tapered off during the afternoon hours.

(VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE

03/21/19 07:00 EST	0	Winter Storm
03/21/19 21:00 EST	0	

An area of low pressure developed along the coastline of North Carolina in the early morning hours of March 21st. The low intensified and moved northward during the day, reaching the Virginia tidewater by mid afternoon and the Chesapeake Bay by the evening. During

Storm Data and Unusual Weather Phenomena - March 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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the overnight hours of March 21st and into the morning hours of the 22nd, the low intensified further, reaching 989 mb as it passed off of the New Jersey coastline. Further intensification occurred as it moved towards the Gulf of Maine, peaking at 976 mb. Overrunning of warm moist air over colder surface air led to widespread precipitation developing during the morning hours of March 21st. The precipitation became heavy at times, and there was enough cold air aloft when coupled with dynamical cooling in heavy precipitation that snow was observed across the higher elevations of the Blue Ridge mountains, with significant accumulations reported. Elsewhere precipitation was all rain.

PRINCE WILLIAM COUNTY --- 0.8 N BRISTOW [38.73, -77.53], 0.4 NNW BRISTOW [38.73, -77.53], 0.4 N BRISTOW [38.73, -77.53], 0.8 N BRISTOW [38.73, -77.53]

03/21/19 16:57 EST	0	Flood (due to Heavy Rain)
03/22/19 06:02 EST	0	Source: River/Stream Gage

The stream gage on the Broad Run at Bristow exceeded the 9.5 foot flood stage during the indicated period. Piper Lane flooded near Manassas Airport and trails along the stream were also flooded. The peak level of 13.99 feet occurred at 2:30 AM on the 22nd.

CULPEPER COUNTY --- 0.8 WNW RAPIDAN [38.33, -78.08], 1.8 NW RAPIDAN [38.34, -78.09], 2.6 NW RAPIDAN [38.34, -78.11], 3.2 NW RAPIDAN [38.35, -78.11], 3.2 NW RAPIDAN [38.35, -78.11], 2.0 NW RAPIDAN [38.34, -78.09], 0.8 NW RAPIDAN [38.33, -78.08]

03/21/19 17:45 EST	0	Flood (due to Heavy Rain)
03/22/19 00:00 EST	0	Source: River/Stream Gage

The river gage on the Robinson River near Locust Dale exceeded the 11 foot flood stage during the indicated period. Water covered a portion of Route 721 (Robinson River Road). Agricultural flooding was also observed nearby. The peak level of 12.14 feet occurred at 7:45 PM on the 21st.

LOUDOUN COUNTY --- 1.0 WNW WATERFORD [39.19, -77.62], 1.0 NW WATERFORD [39.19, -77.61], 1.4 NW WATERFORD [39.20, -77.62], 1.5 NW WATERFORD [39.20, -77.62], 1.3 NW WATERFORD [39.19, -77.62]

03/21/19 18:06 EST	0	Flood (due to Heavy Rain)
03/22/19 04:17 EST	0	Source: River/Stream Gage

The stream gage on the South Fork of the Catoclin Creek at Waterford exceeded the 8 foot flood stage during the indicated period. Lowland fields, as well as portions of Route 662 were flooded near the creek. The peak level of 9.08 feet occurred at 11:15 PM on the 21st.

PRINCE WILLIAM COUNTY --- 1.2 NNW YORKSHIRE [38.80, -77.44], 0.9 NNW YORKSHIRE [38.79, -77.44], 0.5 NNW YORKSHIRE [38.79, -77.43], 0.2 W YORKSHIRE [38.78, -77.43], 0.1 WSW YORKSHIRE [38.78, -77.43], 0.6 NNW YORKSHIRE [38.79, -77.43], 1.2 NNW YORKSHIRE [38.80, -77.44]

03/21/19 18:52 EST	0	Flood (due to Heavy Rain)
03/22/19 14:41 EST	0	Source: River/Stream Gage

The stream gage on the Bull Run at Manassas Park exceeded the 12 foot flood stage during the indicated period. Backyards were flooded along Lake Drive in Manassas, along with much of the Bull Run trail system. The peak level of 16.72 feet occurred at 6:00 AM on the 22nd.

LOUDOUN COUNTY --- 0.3 WSW TAYLORSTOWN [39.25, -77.59], 0.4 NNE TAYLORSTOWN [39.25, -77.58], 0.3 NNE TAYLORSTOWN [39.25, -77.58], 0.3 NNW TAYLORSTOWN [39.25, -77.58], 0.3 NW TAYLORSTOWN [39.25, -77.58], 0.3 W TAYLORSTOWN [39.25, -77.59], 0.4 W TAYLORSTOWN [39.25, -77.59]

03/21/19 21:00 EST	0	Flood (due to Heavy Rain)
03/21/19 22:54 EST	0	Source: River/Stream Gage

The stream gage on the Catoclin Creek at Taylorstown exceeded the 12 foot flood stage during the indicated period. Downey Mill Road was flooded in several places. The peak level of 12.08 feet occurred at 9:30 PM.

FAUQUIER COUNTY --- 1.6 SSW CATLETT [38.63, -77.64], 1.0 SSE CATLETT [38.64, -77.62], 0.8 SSE CATLETT [38.64, -77.63], 1.3 SSW CATLETT [38.63, -77.64]

03/21/19 22:04 EST	0	Flood (due to Heavy Rain)
03/22/19 03:27 EST	0	Source: River/Stream Gage

The stream gage on Cedar Run near Catlett exceeded the 12 foot flood stage during the indicated period. Water overflowed the banks and moved into the lowlands. The peak level of 12.77 feet occurred at 12:00 AM on the 22nd.

LOUDOUN COUNTY --- 1.1 NE OATLANDS [39.04, -77.61], 0.5 NW OATLANDS [39.04, -77.63], 1.8 WNW OATLANDS [39.04, -77.65], 1.0 ENE MOUNTVILLE [39.03, -77.68], 0.8 SE MOUNTVILLE [39.02, -77.69], 1.2 W OATLANDS [39.03, -77.64], 0.3 S OATLANDS [39.03, -77.62], 1.0 NE OATLANDS [39.04, -77.61]

03/21/19 22:41 EST	0	Flood (due to Heavy Rain)
03/22/19 12:56 EST	0	Source: River/Stream Gage

Storm Data and Unusual Weather Phenomena - March 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>The stream gage on Goose Creek near Leesburg exceeded the 12 foot flood stage during the indicated period. Water flooded a low spot on State Route 650 (Oatlands Road), as well as backyards near Route 15. Water also reached the underside of two low bridges at Crooked Lane and approached low spots along Route 773 (Lime Kiln Road). The peak level of 14.17 feet occurred at 7:30 AM on the 22nd.</p>				
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FAUQUIER COUNTY --- 0.8 WSW REMINGTON [38.53, -77.82], 0.3 WNW REMINGTON [38.53, -77.80], 0.1 WNW REMINGTON [38.53, -77.80], 0.6 SW REMINGTON [38.53, -77.81], 3.0 SSE REMINGTON [38.49, -77.78], 3.5 WNW SUMERDUCK [38.48, -77.78], 3.8 WNW SUMERDUCK [38.48, -77.78], 2.0 S REMINGTON [38.50, -77.80]	03/22/19 03:15 EST	0		Flood (due to Heavy Rain)
	03/22/19 06:00 EST	0		Source: River/Stream Gage
<p>The river gage on the Rappahannock River at Remington exceeded the 15 foot flood stage during the indicated period. Water reached the top of the boat ramp at Kellys Ford. Tin Pot Lane and Summerduck Road were flooded due to backwater effects on Tin Pot Run. The peak level of 15.10 feet occurred at 5:00 AM on the 22nd.</p>				
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FREDERICKSBURG (C) COUNTY --- 1.3 N FREDERICKSBURG [38.32, -77.47], 0.8 NE FREDERICKSBURG [38.31, -77.46], 0.7 NE FREDERICKSBURG [38.31, -77.46], 1.0 ESE FREDERICKSBURG [38.30, -77.45], 1.1 ESE FREDERICKSBURG [38.30, -77.45], 0.9 ENE FREDERICKSBURG [38.31, -77.46], 1.3 NNE FREDERICKSBURG [38.32, -77.46]	03/22/19 03:47 EST	0		Flood (due to Heavy Rain)
	03/22/19 17:30 EST	0		Source: River/Stream Gage
<p>The river gage on the Rappahannock River at Fredericksburg exceeded the 13 foot flood stage during the indicated period. Water entered the basement of a home near Fredericksburg City Dock, as well as a guest house off of Caroline Street. Flooding was also observed at the Fredericksburg City Dock and Old Mill Park, leading to the closure of both facilities. The peak level of 14.50 feet occurred at 12:05 PM on the 22nd.</p>				
<p>A coastal low formed along the North Carolina coast and tracked northward toward the Delmarva on the 21st. Heavy rainfall spread northward in advance of the low and then wrapped around the backside of the low as it tracked further north. Prolonged moderate to heavy rainfall resulted in two to four inches of rain across Northern Virginia, leading to numerous instances of flooding.</p>				
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LOUDOUN COUNTY --- 1.5 SSW LEESBURG [39.10, -77.56]	03/22/19 14:36 EST	0		Thunderstorm Wind (EG 50 kt)
	03/22/19 14:36 EST	0		Source: State Official
<p>A tree was blown down near Riverside Parkway and Deerfield Avenue.</p>				
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FAIRFAX COUNTY --- 1.5 NNW RESTON [38.99, -77.31]	03/22/19 14:46 EST	0		Thunderstorm Wind (EG 50 kt)
	03/22/19 14:46 EST	0		Source: State Official
<p>Two trees were blown down in the 1000 block of Virginia Route 674.</p>				
<hr/>				
FAIRFAX COUNTY --- 0.7 S BULL RUN [38.82, -77.48]	03/22/19 14:51 EST	0		Thunderstorm Wind (EG 50 kt)
	03/22/19 14:51 EST	0		Source: State Official
<p>A tree was blown down in the 15400 block of Virginia Route 658.</p>				
<hr/>				
FAIRFAX COUNTY --- KENMORE [38.95, -77.27]	03/22/19 14:52 EST	0		Thunderstorm Wind (EG 50 kt)
	03/22/19 14:52 EST	0		Source: State Official
<p>A tree was blown down blocking Virginia Route 676 near Shouse Drive.</p>				
<hr/>				
FAIRFAX COUNTY --- 0.7 N NORTH SPRINGFIELD [38.81, -77.20]	03/22/19 15:04 EST	0		Thunderstorm Wind (EG 50 kt)
	03/22/19 15:04 EST	0		Source: State Official
<p>A tree was blown down onto wires in the 4200 block of Shenandoah Avenue.</p>				
<hr/>				
ARLINGTON COUNTY --- 1.8 SE SOUTH WASHINGTON [38.85, -77.03]	03/22/19 15:10 EST	0		Thunderstorm Wind (MG 51 kt)
	03/22/19 15:10 EST	0		Source: ASOS
<p>A wind gust of 51 knots (59 mph) was measured at Ronald Reagan Washington National Airport.</p>				

Storm Data and Unusual Weather Phenomena - March 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
FREDERICKSBURG (C) COUNTY --- 0.9 W FREDERICKSBURG [38.30, -77.49]				
	03/22/19 16:07 EST		0	Thunderstorm Wind (EG 50 kt)
	03/22/19 16:07 EST		0	Source: State Official

Numerous trees and wires were blown down throughout the city of Fredericksburg.

SPOTSYLVANIA COUNTY --- 0.5 E SNELL [38.15, -77.59]				
	03/22/19 16:15 EST		0	Thunderstorm Wind (EG 50 kt)
	03/22/19 16:15 EST		0	Source: State Official

Numerous trees and wires were reported blown down across Spotsylvania County.

STAFFORD COUNTY --- 1.8 NE SULLIVAN [38.34, -77.38]				
	03/22/19 16:15 EST		0	Thunderstorm Wind (EG 50 kt)
	03/22/19 16:15 EST		0	Source: State Official

Numerous trees and wires were reported blown down in Stafford County.

KING GEORGE COUNTY --- 1.8 WSW NINDE [38.26, -77.08]				
	03/22/19 16:24 EST		0	Thunderstorm Wind (EG 50 kt)
	03/22/19 16:24 EST		0	Source: State Official

A tree was blown down near the intersection of Virginia Route 620 and Allwine Avenue.

A potent upper level trough as well as a surface cold front crossed the region during the afternoon of March 22nd. Out ahead of the trough, surface heating and cold upper levels were able to generate marginal amounts of surface instability. This was enough to generate scattered showers and a few thunderstorms as the front and trough passed across the area. Steep low level lapse rates and low freezing levels allowed for some of these thunderstorms to become locally severe.

WEST VIRGINIA, East

(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

	03/01/19 00:00 EST		0	Winter Weather
	03/01/19 06:00 EST		0	

During the overnight hours of February 28th into the early morning hours of March 1st, an upper level trough moved through the Ohio Valley as an area of surface low pressure moved through North and South Carolina. This helped to foster warm air advection aloft across the region as high pressure positioned over the eastern Great Lakes and New York funneled in cool air at the surface. This led to the development of a wintry mix across eastern West Virginia during the early morning hours of March 1st, although snow was the favored precipitation type, and several inches accumulated.

(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

	03/01/19 18:00 EST		0	Winter Weather
	03/02/19 03:00 EST		0	

A low pressure system moved from near North Carolina on the afternoon of March 1st to the nearshore waters of the Delmarva during the overnight hours, to near the benchmark by dawn on March 2nd. This resulted in widespread rain and trace amounts of ice being brought to eastern West Virginia.

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

	03/03/19 13:00 EST		0	Winter Storm
	03/03/19 23:59 EST		0	

(WV-Z053) JEFFERSON, (WV-Z506) EASTERN PENDLETON

Storm Data and Unusual Weather Phenomena - March 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/03/19 13:00 EST		0	Winter Weather
	03/03/19 23:59 EST		0	

A low pressure system organized over the southeastern United States on the morning of March 3rd and tracked northeastward to a position near coastal North Carolina by that evening. The low pressure then intensified overnight and moved to a position southeast of Cape Cod by the morning of March 4th. This system brought widespread precipitation to eastern West Virginia, with significant accumulations of snow falling in the higher elevations. Lesser amounts were observed in the lowlands of the eastern West Virginia panhandle.

(WV-Z501) WESTERN GRANT, (WV-Z505) WESTERN PENDLETON

03/05/19 02:00 EST	0	Cold/Wind Chill
03/05/19 09:00 EST	0	

A low pressure system moved up the eastern seaboard of the United States on March 4th, with cold temperatures and strong northwest winds funneling behind the system from the night of the 4th and into the morning hours on the 5th. This was able to produce wind chill values as low as -10 degrees over the higher terrain near the Allegheny Front.

(WV-Z501) WESTERN GRANT, (WV-Z503) WESTERN MINERAL, (WV-Z505) WESTERN PENDLETON, (WV-Z506) EASTERN PENDLETON

03/06/19 01:00 EST	0	Cold/Wind Chill
03/06/19 10:00 EST	0	

An arctic cold front crossed the region during the evening of March 5th, with very cold temperatures and strong northwest winds funneling behind the system from the night of the 5th and into the morning hours on the 6th. This was able to produce wind chill values as low as -10 degrees over the higher terrain near the Allegheny Front.

(WV-Z505) WESTERN PENDLETON, (WV-Z506) EASTERN PENDLETON

03/08/19 04:00 EST	0	Winter Weather
03/08/19 19:00 EST	0	

During the overnight hours of March 7th and into the early morning hours of the 8th, surface high pressure was positioned offshore of the Northeastern United States' coastline as a weak area of surface low pressure passed south of the region across North and South Carolina. This led to modest warm air advection and light precipitation amounts, although enough for some snow accumulations across portions of eastern West Virginia, mainly across the higher elevations. Precipitation then tapered off during the afternoon hours.

BERKELEY COUNTY --- 0.2 WSW BLAIRTON [39.45, -77.92], 0.9 W BLAIRTON [39.45, -77.94], 2.5 SSE (MRB)SHEPHERD FLD MR [39.37, -77.96], 2.8 SSE (MRB)SHEPHERD FLD MR [39.37, -77.95], 3.1 ESE (MRB)SHEPHERD FLD MR [39.38, -77.93]

03/22/19 02:25 EST	0	Flood (due to Heavy Rain)
03/22/19 21:10 EST	0	Source: River/Stream Gage

The river gage on the Opequon Creek at Martinsburg exceeded the 10 foot flood stage during the indicated period. Water covered backyards of homes on Bowers Road (County Road 1/1), as well as the stream access point at the Van Metre Ford Pedestrian Bridge. Douglas Grove Road (County Road 9/16) was flooded and impassible. Water also approached Golf Course Road (County Road 36) and Grapevine Road (County Road 9/14). The peak level of 12.07 feet occurred at 2:15 PM.

A coastal low formed along the North Carolina coast and tracked northward toward the Delmarva on the 21st. Heavy rainfall spread northward in advance of the low and then wrapped around the backside of the low as it tracked further north. Prolonged moderate to heavy rainfall resulted in one to three inches of rain across portions of West Virginia, leading to isolated instances of flooding.