

Storm Data and Unusual Weather Phenomena - March 2023

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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ATLANTIC NORTH

CHESAPEAKE BAY N OF POOLES IS MD COUNTY --- GROVE POINT (GVP) [39.40, -76.04]				
	03/23/23 20:54 EST		0	Marine Thunderstorm Wind (ES 40 kt)
	03/23/23 20:59 EST		0	Source: Buoy

Wind gusts of up to 40 knots (46 MPH) were measured by the Grove Point WeatherFlow sensor (XGVP).

An isolated thunderstorm along a warm front produced gale-force wind gusts over the upper Chesapeake Bay during the mid evening hours.

MARYLAND, Central

(MD-Z001) GARRETT, (MD-Z501) EXTREME WESTERN ALLEGANY				
	03/03/23 07:00 EST		0	Ice Storm
	03/03/23 23:00 EST		0	

An area of low pressure passed by to the west with another area of low pressure developing near the Chesapeake Bay. This resulted in southeasterly winds to overrun colder air near the surface and a prolonged wintry mix/freezing rain event across the Allegheny Mountains where temperatures were just below freezing. Ice accumulations totaled two to four tenths of an inch. Sleet and snow accumulations totaled upwards of 2" as well. Winds also gusted to 50 mph during the event. This led to numerous accidents, downed trees and power lines which resulted in isolated power outages.

(MD-Z502) CENTRAL AND EASTERN ALLEGANY				
	03/03/23 07:00 EST		0	Winter Weather
	03/03/23 21:15 EST		0	

An area of low pressure passed by to the west with another area of low pressure developing near the Chesapeake Bay. This resulted in southeasterly winds to overrun colder air near the surface and a period of snow, freezing rain, and sleet. Snow and sleet accumulations totaled one to three inches and ice accumulations totaled a trace to one tenth of an inch.

(MD-Z001) GARRETT, (MD-Z501) EXTREME WESTERN ALLEGANY, (MD-Z502) CENTRAL AND EASTERN ALLEGANY				
	03/04/23 03:04 EST		0	High Wind (MAX 56 kt)
	03/04/23 09:04 EST		0	

An area of low pressure and strong cold front crossed the area, with a prolonged period of strong gradient winds developing in wake of the front.

(MD-Z001) GARRETT, (MD-Z501) EXTREME WESTERN ALLEGANY				
	03/10/23 04:00 EST		0	Winter Weather
	03/10/23 13:15 EST		0	

An area of low pressure occluded to the west with a frontal boundary moving over the area. This resulted in a period of snow, sleet, and freezing rain. Snow and sleet accumulations totaled a coating to two inches and ice accumulations totaled a trace to a few hundredths of an inch.

(MD-Z001) GARRETT				
	03/10/23 18:00 EST		0	Winter Weather
	03/11/23 03:34 EST		0	

Northwest flow brought a period of upslope snow showers that resulted in snow accumulations of one to four inches along the western slopes in the central and western part of the county. Winds gusted 25 to 45 mph at times resulting in periods of blowing and drifting snow.

(MD-Z001) GARRETT, (MD-Z501) EXTREME WESTERN ALLEGANY				
	03/12/23 10:00 EST		0	Winter Weather
	03/13/23 05:00 EST		0	

An upper-level system and weak area of surface low pressure brought a period of snow across the region during the daylight hours of

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March 12th which transitioned to freezing drizzle during the evening and continued into the overnight. Total snow accumulations were a coating to two inches with ice accumulations of a trace to one tenth of an inch. The greatest ice accumulations were on the eastern facing ridges.

(MD-Z014) ANNE ARUNDEL

	03/13/23 04:00 EST	0		Coastal Flood
	03/13/23 09:00 EST	0		

Elevated water levels due to onshore flow caused moderate coastal flooding at Straits Point.

(MD-Z017) ST. MARY'S

	03/13/23 04:00 EST	0		Coastal Flood
	03/13/23 08:00 EST	0		

Moderate onshore flow resulted in moderate coastal flooding at Straits Point MD early on Mar 12.

(MD-Z001) GARRETT, (MD-Z501) EXTREME WESTERN ALLEGANY

	03/13/23 17:00 EST	0		Winter Weather
	03/15/23 01:00 EST	0		

Northwest flow brought periods of upslope snow showers. Winds gusted to 25 to 45 mph at times resulting in periods of blowing and drifting snow.

(MD-Z001) GARRETT

	03/18/23 22:00 EST	0		Cold/Wind Chill
	03/19/23 10:00 EST	0		

A cold northwest wind behind an arctic cold front caused wind chills to range between -10 and -20 degrees during the overnight of the 18th into the morning of the 19th.

FREDERICK COUNTY --- 1.6 SSW BROAD RUN [39.38, -77.61]

	03/23/23 22:24 EST	5K		Thunderstorm Wind (EG 52 kt)
	03/23/23 22:24 EST	0		Source: Public

A large barn had a portion of the tin roof blown off in the 1700 block of Gapland Road. Several trees were also blown down in the area.

An isolated discrete thunderstorm along a warm front produced localized wind damage over far eastern West Virginia into north-central Maryland during the late evening hours.

VIRGINIA, North

(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE

	03/03/23 07:00 EST	0		Winter Weather
	03/03/23 21:15 EST	0		

An area of low pressure passed by to the west with another area of low pressure developing near the Chesapeake Bay. This resulted in southeasterly winds to overrun colder air near the surface and a period of freezing rain and sleet. Ice accumulations totaled a trace to one tenth of an inch generally above 2,000 feet.

(VA-Z503) WESTERN HIGHLAND

	03/10/23 04:00 EST	0		Winter Weather
	03/10/23 10:45 EST	0		

An area of low pressure occluded to the west with a frontal boundary moving over the area. This resulted in a period of snow, sleet, and freezing rain. Snow and sleet accumulations totaled a coating to two inches and ice accumulations totaled a trace to a few hundredths of an inch.

(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

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	03/12/23 07:00 EST		0	Winter Weather
	03/13/23 05:00 EST		0	

An upper-level system and weak area of surface low pressure brought a period of snow across the region during the daylight hours of March 12th which transitioned to freezing drizzle during the evening and continued into the overnight. Total snow accumulations were one to three inches with ice accumulations of a trace to one tenth of an inch.

(VA-Z503) WESTERN HIGHLAND

	03/13/23 17:00 EST		0	Winter Weather
	03/15/23 01:00 EST		0	

Northwest flow brought periods of upslope snow showers which resulted in snow accumulations of three to eight inches. Winds gusted to 25 to 45 mph at times resulting in periods of blowing and drifting snow.

(VA-Z503) WESTERN HIGHLAND

	03/18/23 22:00 EST		0	Winter Weather
	03/19/23 10:00 EST		0	

A cold northwest wind behind an arctic cold front caused wind chills to range between -10 and -20 degrees during the overnight of the 18th into the morning of the 19th.

WEST VIRGINIA, East

(WV-Z501) WESTERN GRANT, (WV-Z503) WESTERN MINERAL

	03/03/23 07:00 EST		0	Ice Storm
	03/03/23 23:00 EST		0	

An area of low pressure passed by to the west with another area of low pressure developing near the Chesapeake Bay. This resulted in southeasterly winds to overrun colder air near the surface and a prolonged wintry mix/freezing rain event across the Allegheny Mountains where temperatures were just below freezing. Ice accumulations totaled two to four tenths of an inch. Sleet and snow accumulations totaled upwards of 2" as well. Winds also gusted to 50 mph during the event. This led to numerous accidents, downed trees and power lines which resulted in isolated power outages.

(WV-Z050) HAMPSHIRE, (WV-Z055) HARDY, (WV-Z502) EASTERN GRANT, (WV-Z504) EASTERN MINERAL, (WV-Z505) WESTERN PENDLETON, (WV-Z506) EASTERN PENDLETON

	03/03/23 07:00 EST		0	Winter Weather
	03/03/23 21:15 EST		0	

An area of low pressure passed by to the west with another area of low pressure developing near the Chesapeake Bay. This resulted in southeasterly winds to overrun colder air near the surface and a period of freezing rain and sleet. Ice accumulations totaled a trace to one tenth of an inch generally above 2,000 feet.

(WV-Z055) HARDY, (WV-Z501) WESTERN GRANT, (WV-Z503) WESTERN MINERAL, (WV-Z504) EASTERN MINERAL, (WV-Z505) WESTERN PENDLETON, (WV-Z506) EASTERN PENDLETON

	03/04/23 03:39 EST		0	High Wind (MAX 63 kt)
	03/04/23 10:00 EST		0	

An area of low pressure and strong cold front crossed the area, with a prolonged period of strong gradient winds developing in wake of the front.

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

	03/10/23 04:00 EST		0	Winter Weather
	03/10/23 12:30 EST		0	

An area of low pressure occluded to the west with a frontal boundary moving over the area. This resulted in a period of snow, sleet, and freezing rain. Snow and sleet accumulations totaled a coating to two inches and ice accumulations totaled a trace to a few hundredths of an inch.

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

	03/10/23 18:00 EST		0	Winter Weather
	03/11/23 03:34 EST		0	

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Northwest flow brought a period of upslope snow showers that resulted in snow accumulations of one to four inches along the western slopes. Winds gusted 25 to 45 mph at times resulting in periods of blowing and drifting snow.

(WV-Z501) WESTERN GRANT, (WV-Z503) WESTERN MINERAL, (WV-Z505) WESTERN PENDLETON, (WV-Z506) EASTERN PENDLETON	03/12/23 07:00 EST	0	0	Winter Weather
	03/13/23 05:00 EST	0	0	

An upper-level system and weak area of surface low pressure brought a period of snow across the region during the daylight hours of March 12th which transitioned to freezing drizzle during the evening and continued into the overnight. Total snow accumulations were one to three inches with ice accumulations of a trace to one tenth of an inch. The greatest ice accumulations were on the eastern facing ridges.

(WV-Z501) WESTERN GRANT, (WV-Z503) WESTERN MINERAL, (WV-Z505) WESTERN PENDLETON	03/13/23 17:00 EST	0	0	Winter Weather
	03/15/23 01:00 EST	0	0	

Northwest flow brought periods of upslope snow showers. Winds gusted to 25 to 45 mph at times resulting in periods of blowing and drifting snow.

(WV-Z501) WESTERN GRANT, (WV-Z505) WESTERN PENDLETON	03/18/23 22:00 EST	0	0	Cold/Wind Chill
	03/19/23 10:00 EST	0	0	

A cold northwest wind behind an arctic cold front caused wind chills to range between -10 and -20 degrees during the overnight of the 18th into the morning of the 19th.

BERKELEY COUNTY --- 1.8 NNE NOLLVILLE [39.49, -78.01]	03/23/23 22:00 EST	1K	0	Thunderstorm Wind (EG 50 kt)
	03/23/23 22:00 EST	0	0	Source: 911 Call Center

Tree damage was reported southeast of Tomahawk, including a tree that blew down near the intersection of CR-13 Dry Run Road and CR-16 Thatcher Road.

BERKELEY COUNTY --- 2.0 SSW BERKELEY [39.47, -77.94]	03/23/23 22:03 EST	1K	0	Thunderstorm Wind (EG 50 kt)
	03/23/23 22:03 EST	0	0	Source: 911 Call Center

Tree damage was reported east-northeast of Martinsburg, including a tree that blew down near the intersection of Duke Road and Elementary Drive.

JEFFERSON COUNTY --- 1.3 WSW SHEPHERDSTOWN [39.42, -77.82]	03/23/23 22:11 EST	3K	0	Thunderstorm Wind (EG 52 kt)
	03/23/23 22:11 EST	0	0	Source: 911 Call Center

A few trees blew down near Morgan's Grove Park in Shepherdstown.

An isolated discrete thunderstorm along a warm front produced localized wind damage over far eastern West Virginia into north-central Maryland during the late evening hours.