

Storm Data and Unusual Weather Phenomena - January 2016

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

DISTRICT OF COLUMBIA

(DC-Z001) DISTRICT OF COLUMBIA

	01/20/16 18:00 EST	0		Winter Weather
	01/20/16 23:00 EST	0		

A shortwave trough swung through the Mid-Atlantic during the later afternoon and evening hours. A quick burst of snow occurred during the peak of rush hour and with below freezing temperatures already in place, led to accumulations of up to one inch. Hundreds of traffic incidents were reported with icy conditions forming on the roadways.

(DC-Z001) DISTRICT OF COLUMBIA

	01/23/16 14:00 EST	0		Blizzard
	01/23/16 18:00 EST	0		

Coastal low pressure rapidly intensified as it tracked up the Mid-Atlantic coast. At the same time, high pressure to the north was funneling cold air into the region. The strong low pressure system was able to tap into moisture from the Gulf of Mexico and the Atlantic Ocean resulting in heavy amounts of precipitation. The cold air caused that precipitation to fall in the form of snow. Gusty winds also accompanied this storm. The combination of gusty winds and low visibility along with snow and blowing snow caused blizzard conditions.

MARYLAND, Central

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

	01/08/16 16:00 EST	0		Winter Weather
	01/09/16 10:00 EST	0		

A wedge of high pressure remained across the Mid-Atlantic, trapping below freezing temperatures in valleys of western Maryland. An elevated warm front lifted north over the high pressure, resulting in light rain and drizzle. Due to the below freezing temperatures, reports of freezing rain and drizzle were observed.

(MD-Z004) FREDERICK

	01/10/16 16:00 EST	0		High Wind (MAX 51 kt)
	01/10/16 16:00 EST	0		

Strong southwesterly flow developed ahead of an approaching cold front.

(MD-Z014) ANNE ARUNDEL

	01/10/16 17:38 EST	0		Coastal Flood
	01/11/16 01:52 EST	0		

Strong southwesterly winds ahead of an approaching cold front increased tidal anomalies to between 2 and 3 feet on the Chesapeake Bay. This resulted in minor flooding for most of the western Chesapeake Bay shoreline, with moderate flood levels reported at Annapolis Tidal Gauge.

(MD-Z501) EXTREME WESTERN ALLEGANY

	01/12/16 08:00 EST	0		Winter Weather
	01/12/16 21:00 EST	0		

A strong cold front swung through the region late in the day accompanied by a mid and upper level trough with strong forcing. Steep lapse rates and weak CAPE combining with the upper level support led to the development of snow squalls, resulting in a quick accumulation of a couple of inches over the Alleghany Front.

(MD-Z005) CARROLL

	01/16/16 05:05 EST	0		Dense Fog
	01/16/16 08:05 EST	0		

Recent rain over the area resulted in increased low level moisture across the Mid-Atlantic. As this moisture became trapped under a subsidence inversion, fog developed, with areas of dense fog in the valleys of central Maryland.

Storm Data and Unusual Weather Phenomena - January 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
(MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z016) CHARLES, (MD-Z503) NORTHWEST MONTGOMERY, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD				
	01/20/16 18:00 EST		0	Winter Weather
	01/20/16 23:00 EST		0	

A shortwave trough swung through the Mid-Atlantic during the later afternoon and evening hours. A quick burst of snow occurred during the peak of rush hour and with below freezing temperatures already in place, led to accumulations of up to one inch. Hundreds of traffic incidents were reported with icy conditions forming on the roadways.

(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-Z505) NORTHWEST HOWARD, (MD-Z508) SOUTHEAST HARFORD				
	01/22/16 14:00 EST		0	Winter Storm
	01/24/16 01:00 EST		0	

(MD-Z013) PRINCE GEORGES, (MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT, (MD-Z504) CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z505) NORTHWEST HOWARD, (MD-Z506) CENTRAL AND SOUTHEAST HOWARD				
	01/23/16 05:00 EST		0	Blizzard
	01/23/16 18:00 EST		0	

Coastal low pressure rapidly intensified as it tracked up the Mid-Atlantic coast. At the same time, high pressure to the north was funneling cold air into the region. The strong low pressure system was able to tap into moisture from the Gulf of Mexico and the Atlantic Ocean resulting in heavy amounts of precipitation. The cold air caused that precipitation to fall in the form of snow.

Gusty winds also accompanied this storm. The combination of gusty winds and low visibility along with snow and blowing snow caused blizzard conditions across central and southern Maryland.

(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z502) CENTRAL AND EASTERN ALLEGANY, (MD-Z505) NORTHWEST HOWARD, (MD-Z507) NORTHWEST HARFORD, (MD-Z508) SOUTHEAST HARFORD				
	01/26/16 06:00 EST		0	Winter Weather
	01/26/16 09:00 EST		0	

Retreating high pressure resulted in colder air being wedged in the valleys along and east of the Appalachians. As a warm front lifted north during the overnight hours, light rain formed, which when combined with the below freezing surface temperatures, resulted in patches of freezing rain.

VIRGINIA, North

(VA-Z025) AUGUSTA, (VA-Z029) PAGE, (VA-Z030) WARREN				
	01/08/16 00:55 EST		0	Dense Fog
	01/08/16 10:15 EST		0	

Wedge of high pressure extended across the Mid-Atlantic, resulting in stable conditions, trapping moisture in the valleys of the Shenandoah Valley region. Dense fog formed as a result.

(VA-Z503) WESTERN HIGHLAND				
	01/12/16 08:00 EST		0	Winter Weather
	01/12/16 21:00 EST		0	

A strong cold front swung through the region late in the day accompanied by a mid and upper level trough with strong forcing. Steep lapse rates and weak CAPE combining with the upper level support led to the development of snow squalls, resulting in a quick accumulation of a couple of inches over western Highland County.

(VA-Z508) CENTRAL VIRGINIA BLUE RIDGE				
	01/12/16 21:05 EST		0	High Wind (MAX 50 kt)
	01/12/16 21:05 EST		0	

Tight surface pressure gradient with approaching cold front combining and strong winds aloft combined with strong low level lapse rates, resulting in gusts between 50-65 mph to mix to the surface.

Storm Data and Unusual Weather Phenomena - January 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
(VA-Z025) AUGUSTA, (VA-Z050) ORANGE, (VA-Z051) CULPEPER, (VA-Z053) FAIRFAX, (VA-Z502) SOUTHERN FAUQUIER				
	01/16/16 02:35 EST		0	Dense Fog
	01/16/16 10:45 EST		0	

Recent rain over the area resulted in increased low level moisture across the Mid-Atlantic. As this moisture became trapped under a subsidence inversion, fog developed, with areas of dense fog in the valleys of northern Virginia.

(VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA, (VA-Z506) EASTERN LOUDOUN				
	01/20/16 18:00 EST		0	Winter Weather
	01/20/16 23:00 EST		0	

A shortwave trough swung through the Mid-Atlantic during the later afternoon and evening hours. A quick burst of snow occurred during the peak of rush hour and with below freezing temperatures already in place, led to accumulations of up to one inch. Hundreds of traffic incidents were reported with icy conditions forming on the roadways.

(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z036) NELSON, (VA-Z037) ALBEMARLE, (VA-Z038) GREENE, (VA-Z039) MADISON, (VA-Z040) RAPPAHANNOCK, (VA-Z050) ORANGE, (VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA, (VA-Z057) KING GEORGE, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z505) WESTERN LOUDOUN				
	01/22/16 10:00 EST		0	Winter Storm
	01/24/16 00:00 EST		0	

(VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (VA-Z506) EASTERN LOUDOUN, (VA-Z507) NORTHERN VIRGINIA BLUE RIDGE, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE				
	01/23/16 03:00 EST		0	Blizzard
	01/23/16 18:00 EST		0	

Coastal low pressure rapidly intensified as it tracked up the Mid-Atlantic coast. At the same time, high pressure to the north was funneling cold air into the region. The strong low pressure system was able to tap into moisture from the Gulf of Mexico and the Atlantic Ocean resulting in heavy amounts of precipitation. The cold air caused that precipitation to fall in the form of snow.

Gusty winds also accompanied this storm. The combination of gusty winds and low visibility along with snow and blowing snow caused blizzard conditions across portions of northern Virginia.

Storm Data and Unusual Weather Phenomena - January 2016

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



Middle of the storm, picture of employee's home in Franklin Farms. Taken by NWS employee.

(VA-Z503) WESTERN HIGHLAND

01/29/16 00:00 EST	0		Winter Weather
01/29/16 16:00 EST	0		

Northern stream low situated over Ontario swung an associated cold front through the region during the overnight and daytime hours. Snow squalls along this front produced a quick few inches in the upslope regions of the Allegheny Front.

WEST VIRGINIA, East

(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (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

01/08/16 13:00 EST	0		Winter Weather
01/09/16 10:00 EST	0		

A wedge of high pressure remained across the Mid-Atlantic, trapping below freezing temperatures in valleys of eastern West Virginia. An elevated warm front lifted north over the high pressure, resulting in light rain and drizzle. Due to the below freezing temperatures, reports of freezing rain and drizzle were observed.

(WV-Z052) BERKELEY, (WV-Z502) EASTERN GRANT

Storm Data and Unusual Weather Phenomena - January 2016

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	01/08/16 16:22 EST		0	Dense Fog
	01/09/16 10:35 EST		0	

Wedge of high pressure extended across the Mid-Atlantic, resulting in stable conditions, trapping moisture in the valleys. Dense fog formed as a result.

(WV-Z052) BERKELEY

	01/09/16 19:49 EST		0	Dense Fog
	01/09/16 21:53 EST		0	

A wedge of high pressure remained over the Mid-Atlantic as a warm front slowly lifted north. The warming of temperatures aloft led to a stable air mass, trapping moisture in the valleys of eastern West Virginia.

(WV-Z501) WESTERN GRANT, (WV-Z502) EASTERN GRANT, (WV-Z503) WESTERN MINERAL, (WV-Z505) WESTERN PENDLETON

	01/12/16 08:00 EST		0	Winter Weather
	01/12/16 21:00 EST		0	

A strong cold front swung through the region late in the day accompanied by a mid and upper level trough with strong forcing. Steep lapse rates and weak CAPE combining with the upper level support led to the development of snow squalls, resulting in a quick accumulation of a couple of inches over the Potomac Highlands portions of West Virginia.

(WV-Z052) BERKELEY

	01/12/16 17:25 EST		0	High Wind (MAX 55 kt)
	01/12/16 17:25 EST		0	

Tight surface pressure gradient with approaching cold front combining and strong winds aloft combined with strong low level lapse rates, resulting in gusts between 50-65 mph to mix to the surface.

(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

	01/22/16 10:00 EST		0	Winter Storm
	01/24/16 00:00 EST		0	

Coastal low pressure rapidly intensified as it tracked up the Mid-Atlantic coast. At the same time, high pressure to the north was funneling cold air into the region. The strong low pressure system was able to tap into moisture from the Gulf of Mexico and the Atlantic Ocean resulting in heavy amounts of precipitation. The cold air caused that precipitation to fall in the form of snow.

(WV-Z502) EASTERN GRANT

	01/24/16 00:35 EST		0	Dense Fog
	01/24/16 08:55 EST		0	

The combination of a snowpack from recent snow and building high pressure resulting in light winds and clear skies produce patchy fog with patches becoming dense across eastern West Virginia.

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

	01/26/16 06:00 EST		0	Winter Weather
	01/26/16 09:00 EST		0	

Retreating high pressure resulted in colder air being wedged in the valleys along and east of the Appalachians. As a warm front lifted north during the overnight hours, light rain formed, which when combined with the below freezing surface temperatures, resulted in patches of freezing rain.

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

	01/29/16 00:00 EST		0	Winter Weather
	01/29/16 16:00 EST		0	

Northern stream low situated over Ontario swung an associated cold front through the region during the overnight and daytime hours. Snow squalls along this front produced a quick few inches in the upslope regions of the Allegheny Front.