

Storm Data and Unusual Weather Phenomena - February 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ATLANTIC NORTH				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.4 NE QUANTICO [38.50, -77.31]				
	02/25/11 12:54 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	02/25/11 12:54 EST	0		Source: ASOS
A wind gust in excess of 30 knots was reported at Quantico.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY --- THOMAS POINT LIGHT [38.90, -76.44]				
	02/25/11 13:16 EST	0		Marine Thunderstorm Wind (MG 46 kt)
	02/25/11 13:16 EST	0		Source: Buoy
A wind gust of 46 knots was reported at Thomas Point Lighthouse.				
CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- 6.3 NNW MID BAY BUOY [38.56, -76.41]				
	02/25/11 13:30 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	02/25/11 13:30 EST	0		Source: Buoy
A wind gust in excess of 30 knots was reported at Gooses Reef.				
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 1.1 SE BALTIMORE CITY [39.27, -76.58]				
	02/25/11 13:30 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	02/25/11 13:30 EST	0		Source: Buoy
A wind gust in excess of 30 knots was measured at the Baltimore Buoy.				
PATAPSCO RIVER INCLUDING BALTIMORE HARBOR COUNTY --- 4.3 NNW RIVIERA BEACH [39.22, -76.53]				
	02/25/11 13:36 EST	0		Marine Thunderstorm Wind (MG 37 kt)
	02/25/11 13:42 EST	0		Source: Buoy
Wind gusts up to 37 knots were recorded at the Baltimore Key Bridge.				
CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 0.2 NNW MILLER ISLAND [39.25, -76.37]				
	02/25/11 13:40 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	02/25/11 13:46 EST	0		Source: Mesonet
Wind gusts up to 36 knots were reported at Miller Island.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 11.6 NNE QUANTICO [38.64, -77.20]				
	02/25/11 13:42 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	02/25/11 13:42 EST	0		Source: Mesonet
A wind gust of 34 knots was measured at Mason Neck.				
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY --- 0.2 NE (DCA)REAGAN NATIONAL AIRPORT [38.85, -77.04]				
	02/25/11 13:49 EST	0		Marine Thunderstorm Wind (EG 34 kt)
	02/25/11 13:49 EST	0		Source: ASOS
A wind gust in excess of 30 knots was reported at Reagan National Airport.				
CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- COVE POINT [38.43, -76.39]				
	02/25/11 13:54 EST	0		Marine Thunderstorm Wind (MG 35 kt)
	02/25/11 13:54 EST	0		Source: Buoy
A wind gust of 35 knots was reported at Cove Point.				
CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 6.7 ENE BALTIMORE APPROACHES BUOY [39.21, -76.25]				
	02/25/11 14:00 EST	0		Marine Thunderstorm Wind (MG 38 kt)
	02/25/11 14:00 EST	0		Source: Mesonet
A wind gust of 38 knots was recorded at Tolchester Beach.				

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CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- CHESAPEAKE BEACH [38.69, -76.54]				
	02/25/11 14:20 EST		0	Marine Thunderstorm Wind (MG 40 kt)
	02/25/11 14:20 EST		0	Source: Mesonet

A wind gust of 40 knots was measured at Chesapeake Beach.

CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- 1.3 E PATUXENT RIVER ASOS [38.29, -76.39]				
	02/25/11 14:25 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	02/25/11 14:25 EST		0	Source: ASOS

A wind gust of 36 knots was measured at Patuxent River.

TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY --- PINEY POINT [38.13, -76.53]				
	02/25/11 14:51 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	02/25/11 14:51 EST		0	Source: Buoy

A wind gust in excess of 30 knots was recorded at Piney Point.

CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY --- 0.2 SSE LOWER HOOPERS ISLAND [38.26, -76.18]				
	02/25/11 15:29 EST		0	Marine Thunderstorm Wind (MG 34 kt)
	02/25/11 15:29 EST		0	Source: Mesonet

A wind gust of 34 knots was measured at Lower Hoopers Island.

TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.3 SSE CRISFIELD [37.97, -75.88]				
	02/25/11 15:39 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	02/25/11 15:39 EST		0	Source: Mesonet

A wind gust of 36 knots was reported at Crisfield.

Strong low pressure tracked through the Ohio Valley on the 25th. The cold front associated with this system passed through the waters during the afternoon. There was enough instability for showers and thunderstorms ahead of the front. The stronger thunderstorms were able to mix down gusty winds from aloft.

DISTRICT OF COLUMBIA

(DC-Z001) DISTRICT OF COLUMBIA				
	02/01/11 02:00 EST		0	Winter Weather
	02/01/11 10:00 EST		0	

Low pressure over the Ohio Valley caused a period of precipitation during the morning hours of the first. There was enough low-level cold air for a period of wintry precipitation before enough warm air eventually worked its way into the storm causing precipitation to change to rain.

DISTRICT OF COLUMBIA COUNTY --- 0.5 E BOLLING AFB [38.85, -77.01], 0.8 E BOLLING AFB [38.85, -77.00], 0.9 ESE BOLLING AFB [38.84, -77.01], 0.7 SE BOLLING AFB [38.84, -77.01]				
	02/02/11 03:02 EST		0	Flood (due to Heavy Rain / Snow Melt)
	02/02/11 06:00 EST		0	Source: Department of Highways

Southbound 295 underpass was closed at Malcom X Avenue due to standing water.

A low pressure system over the Great Lakes helped send a layer of warm moist air above the boundary layer across the mid Atlantic during the early morning of February 2. Moderate to heavy rain was the result, and this rain combined with snowmelt produced an isolated flood report in the District of Columbia.

(DC-Z001) DISTRICT OF COLUMBIA				
	02/19/11 09:09 EST		1K	High Wind (MAX 52 kt)
	02/19/11 14:05 EST		0	

A cold front passed through the area during the evening of the 18th. A strong pressure gradient between high pressure to the south

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and low pressure to the north resulted in high winds during the 19th.

(DC-Z001) DISTRICT OF COLUMBIA

	02/21/11 20:00 EST		0	Winter Weather
	02/22/11 05:00 EST		0	

A cold front passed through the region on the evening of the 21st. High pressure to the north allowed for plenty of cold air to move into the region during the nighttime hours of the 21st. A wave of low pressure was moving along the front during this time causing precipitation over the area. Precipitation initially started out as rain before changing over to ice and snow as colder air worked its way in.

(DC-Z001) DISTRICT OF COLUMBIA

	02/25/11 14:29 EST		5K	High Wind (MAX 52 kt)
	02/25/11 14:29 EST		0	

A strong cold front passed through the region during the morning hours. Strong low pressure associated with the front moved through New England during the afternoon hours while high pressure moved toward the Midwest. The strong pressure gradient between these two systems caused high winds.

MARYLAND, Central

(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z007) HARFORD, (MD-Z009) MONTGOMERY, (MD-Z010) HOWARD, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT, (MD-Z501) EXTREME WESTERN ALLEGANY, (MD-Z502) CENTRAL AND EASTERN ALLEGANY

	02/01/11 00:00 EST		0	Winter Weather
	02/02/11 06:00 EST		0	

Low pressure over the Ohio Valley caused periods of precipitation during the first into the morning hours of the second. There was enough low-level cold air for a period of wintry precipitation before enough warm air eventually worked its way into the storm causing precipitation to change to rain.

(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z007) HARFORD, (MD-Z009) MONTGOMERY, (MD-Z010) HOWARD, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z501) EXTREME WESTERN ALLEGANY, (MD-Z502) CENTRAL AND EASTERN ALLEGANY

	02/05/11 01:00 EST		0	Winter Weather
	02/05/11 08:00 EST		0	

Low pressure tracked through the Ohio Valley on the fifth of February causing precipitation over the area. High pressure just off the New England coast supplied enough low-level cold air for a period of freezing rain. Precipitation changed to rain later in the morning as warmer air was drawn into the system.

(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z007) HARFORD, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z014) ANNE ARUNDEL, (MD-Z018) CALVERT

	02/18/11 22:43 EST		4K	High Wind (MAX 55 kt)
	02/19/11 15:20 EST		0	

A cold front passed through the area during the evening of the 18th. A strong pressure gradient between high pressure to the south and low pressure to the north resulted in high winds during the 19th.

(MD-Z013) PRINCE GEORGES

	02/19/11 16:00 EST		0	Wildfire
	02/20/11 00:00 EST		0	

A dry cold front passed through on the evening of the 18th. Strong westerly winds combined with low relative humidity and low fuel moisture to cause the development of wildfires across portions of Maryland.

(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z007) HARFORD, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z502) CENTRAL AND EASTERN ALLEGANY

	02/21/11 18:00 EST		0	Winter Storm
	02/22/11 05:00 EST		0	

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
(MD-Z009) MONTGOMERY, (MD-Z010) HOWARD, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z501) EXTREME WESTERN ALLEGANY				
	02/21/11 18:00 EST		0	Winter Weather
	02/22/11 05:00 EST		0	

A cold front passed through the region on the evening of the 21st. High pressure to the north allowed for plenty of cold air to move into the region during the nighttime hours of the 21st. A wave of low pressure was moving along the front during this time causing precipitation over the area. Precipitation initially started out as rain before changing over to ice and snow as colder air worked its way in.

(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z007) HARFORD, (MD-Z009) MONTGOMERY, (MD-Z010) HOWARD, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT, (MD-Z501) EXTREME WESTERN ALLEGANY, (MD-Z502) CENTRAL AND EASTERN ALLEGANY				
	02/25/11 11:30 EST		5K	High Wind (MAX 57 kt)
	02/25/11 17:45 EST		0	

A strong cold front passed through the region during the morning hours. Strong low pressure associated with the front moved through New England during the afternoon hours while high pressure moved toward the Midwest. The strong pressure gradient between these two systems caused high winds.

ANNE ARUNDEL COUNTY --- 1.5 WNW PIONEER CITY [39.14, -76.75]				
	02/28/11 13:32 EST		0	Thunderstorm Wind (EG 56 kt)
	02/28/11 13:32 EST		0	Source: Public

Wind gusts were estimated to be between 60 and 70 mph.

PRINCE GEORGE'S COUNTY --- 0.7 SSW SURREATS GARDENS [38.74, -76.90]				
	02/28/11 13:55 EST		0	Thunderstorm Wind (EG 52 kt)
	02/28/11 13:55 EST		0	Source: Public

Wind gusts were estimated to be around 60 mph near Clinton.

Strong low pressure tracked through the Ohio Valley on the 25th. The cold front associated with this system passed through Maryland during the afternoon. There was enough instability for showers and thunderstorms ahead of the front. The stronger thunderstorms were able to mix down strong winds from aloft.

VIRGINIA, North

(VA-Z028) FREDERICK, (VA-Z031) CLARKE, (VA-Z042) LOUDOUN, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (VA-Z501) NORTHERN FAUQUIER				
	02/01/11 02:00 EST		0	Winter Weather
	02/02/11 06:00 EST		0	

Low pressure over the Ohio Valley caused periods of precipitation during the first into the morning hours of the second. There was enough low-level cold air for a period of wintry precipitation before enough warm air eventually worked its way into the storm causing precipitation to change to rain.

(VA-Z028) FREDERICK, (VA-Z042) LOUDOUN				
	02/05/11 01:00 EST		0	Winter Weather
	02/05/11 08:00 EST		0	

Low pressure tracked through the Ohio Valley on the fifth of February causing precipitation over the area. High pressure just off the New England coast supplied enough low-level cold air for a period of freezing rain. Precipitation changed to rain later in the morning as warmer air was drawn into the system.

(VA-Z036) NELSON				
	02/14/11 17:10 EST		0	High Wind (MAX 52 kt)
	02/14/11 17:10 EST		0	

A strong pressure gradient between high pressure over the Ohio Valley and low pressure off the New England Coast brought gusty

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winds to central Virginia. The strongest winds were across the ridge tops along the Blue Ridge Mountains and Potomac Highlands.

(VA-Z026) ROCKINGHAM

	02/19/11 00:00 EST	0	0	Wildfire
	02/21/11 00:00 EST	0	0	

A dry cold front passed through on the evening of the 18th. Strong westerly winds combined with low relative humidity and low fuel moisture to cause the development of wildfires in central Virginia.

(VA-Z036) NELSON, (VA-Z040) RAPPAHANNOCK, (VA-Z054) ARLINGTON

	02/19/11 03:00 EST	3K	0	High Wind (MAX 62 kt)
	02/19/11 15:59 EST	0	0	

A cold front passed through the area during the evening of the 18th. A strong pressure gradient between high pressure to the south and low pressure to the north resulted in high winds during the 19th.

(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z027) SHENANDOAH, (VA-Z028) FREDERICK, (VA-Z029) PAGE, (VA-Z031) CLARKE, (VA-Z036) NELSON, (VA-Z037) ALBEMARLE, (VA-Z038) GREENE, (VA-Z039) MADISON, (VA-Z040) RAPPAHANNOCK, (VA-Z042) LOUDOUN, (VA-Z050) ORANGE, (VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND

	02/21/11 20:00 EST	0	0	Winter Weather
	02/22/11 05:00 EST	0	0	

A cold front passed through the region on the evening of the 21st. High pressure to the north allowed for plenty of cold air to move into the region during the nighttime hours of the 21st. A wave of low pressure was moving along the front during this time causing precipitation over the area. Precipitation initially started out as rain before changing over to ice and snow as colder air worked its way in.

(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGHAM, (VA-Z036) NELSON, (VA-Z037) ALBEMARLE, (VA-Z042) LOUDOUN, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z501) NORTHERN FAUQUIER, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND

	02/25/11 04:10 EST	0	0	High Wind (MAX 63 kt)
	02/25/11 17:30 EST	0	0	

A strong cold front passed through the region during the morning hours. Strong low pressure associated with the front moved through New England during the afternoon hours while high pressure moved toward the Midwest. The strong pressure gradient between these two systems caused high winds.

WEST VIRGINIA, East

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

	02/01/11 00:00 EST	0	0	Winter Weather
	02/02/11 03:00 EST	0	0	

Low pressure over the Ohio Valley caused periods of precipitation during the first into the morning hours of the second. There was enough low-level cold air for a period of wintry precipitation before enough warm air eventually worked its way into the storm causing precipitation to change to rain.

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

	02/05/11 01:00 EST	0	0	Winter Weather
	02/05/11 08:00 EST	0	0	

Low pressure tracked through the Ohio Valley on the fifth of February causing precipitation over the area. High pressure just off the New England coast supplied enough low-level cold air for a period of freezing rain. Precipitation changed to rain later in the morning as warmer air was drawn into the system.

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

	02/12/11 11:00 EST	0	0	High Wind (MAX 56 kt)
	02/12/11 14:00 EST	0	0	

A strong pressure gradient between high pressure over the Tennessee Valley and a cold front passing through the Allegheny and

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Potomac Highlands caused high winds on the 12th.

(WV-Z504) EASTERN MINERAL

	02/19/11 11:34 EST	0		High Wind (MAX 51 kt)
	02/19/11 11:34 EST	0		

A cold front passed through the area during the evening of the 18th. A strong pressure gradient between high pressure to the south and low pressure to the north resulted in high winds during the 19th.

(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

	02/21/11 18:00 EST	0		Winter Weather
	02/22/11 05:00 EST	0		

A cold front passed through the region on the evening of the 21st. High pressure to the north allowed for plenty of cold air to move into the region during the nighttime hours of the 21st. A wave of low pressure was moving along the front during this time causing precipitation over the area. Precipitation initially started out as rain before changing over to ice and snow as colder air worked its way in.

(WV-Z052) BERKELEY, (WV-Z053) JEFFERSON, (WV-Z501) WESTERN GRANT, (WV-Z502) EASTERN GRANT, (WV-Z503) WESTERN MINERAL, (WV-Z504) EASTERN MINERAL, (WV-Z505) WESTERN PENDLETON, (WV-Z506) EASTERN PENDLETON

	02/25/11 11:30 EST	0		High Wind (MAX 56 kt)
	02/25/11 15:00 EST	0		

A strong cold front passed through the region during the morning hours. Strong low pressure associated with the front moved through New England during the afternoon hours while high pressure moved toward the Midwest. The strong pressure gradient between these two systems caused high winds.

PENDLETON COUNTY --- 2.8 WSW ZIGLER [38.61, -79.62]

	02/28/11 10:14 EST	0		Thunderstorm Wind (EG 61 kt)
	02/28/11 10:14 EST	0		Source: Trained Spotter

Wind gusts were estimated around 70 mph near Circleville.

A potent cold front moved through eastern West Virginia on the 28th. Limited instability combined with strong winds aloft for an isolated thunderstorm to produce damaging winds in Pendleton County.