

Storm Data and Unusual Weather Phenomena - October 2010

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

ATLANTIC NORTH

CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY --- 5.2 SSW PATAPSCO BUOY [39.08, -76.43]				
	10/11/10 21:11 EST		0	Marine Hail (0.88 in)
	10/11/10 21:11 EST		0	Source: Public

Nickel size hail was reported near Gibson Island.

High pressure off the East Coast pumped in warm and moist air over the waters. An upper-level disturbance passed through in the westerly flow aloft during the evening of the 11th. The upper-level disturbance combined with limited instability to trigger showers and thunderstorms. An isolated thunderstorm was able to produce large hail.

CHESAPEAKE BAY N BEACH TO DRUM PT MD COUNTY --- COVE POINT [38.43, -76.39]				
	10/14/10 13:42 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	10/14/10 13:42 EST		0	Source: Buoy

A wind gust of 36 knots was reported at Cove Point.

A potent cold front passed through the waters on the 14th. Warm and moist air ahead of the boundary caused limited amounts of instability. The strong forcing from the front combined with the instability to trigger showers and thunderstorms. An isolated thunderstorm across the middle portion of the Chesapeake Bay produced gusty winds.

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 3.5 SW COBB POINT [38.21, -76.87], 0.4 SSE COBB POINT [38.25, -76.83]				
	10/23/10 16:23 EST		0	Waterspout
	10/23/10 16:30 EST		0	Source: Fire Department/Rescue

A waterspout was reported near Rock Point. No damage was reported.

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.4 NE QUANTICO [38.50, -77.31]				
	10/27/10 12:15 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	10/27/10 12:15 EST		0	Source: ASOS

A wind gust in excess of 30 knots was reported at Quantico.

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY --- 0.2 W POTOMAC LIGHT [38.34, -76.99]				
	10/27/10 18:49 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	10/27/10 18:49 EST		0	Source: Mesonet

A wind gust of 35 knots was reported at the Potomac Lighthouse.

TANGIER SOUND AND THE INLAND WATERS SURROUNDING BLOODSWORTH ISLAND COUNTY --- 0.3 SSE CRISFIELD [37.97, -75.88]				
	10/27/10 21:33 EST		0	Marine Thunderstorm Wind (MG 42 kt)
	10/27/10 21:33 EST		0	Source: Mesonet

A wind gust of 42 knots was reported at Crisfield.

A southerly flow around high pressure off the East Coast led to an unusually warm and humid air mass for this time of the year. The warm and humid air mass caused an unstable atmosphere to develop. The combination of the instability and an approaching cold front led to the development of showers and thunderstorms. Some thunderstorms were able to produce gusty winds.

DISTRICT OF COLUMBIA

DISTRICT OF COLUMBIA COUNTY --- 0.5 E BOLLING AFB [38.85, -77.01], 0.8 E BOLLING AFB [38.85, -77.01], 0.9 SE BOLLING AFB [38.84, -77.01], 0.8 SE BOLLING AFB [38.84, -77.01]				
	10/27/10 13:15 EST		0	Flash Flood (due to Heavy Rain)
	10/27/10 13:37 EST		0	Source: Emergency Manager

The intersection of Capitol Street SE and Malcolm X Boulevard was closed due to flash flooding.

A southerly flow around high pressure off the East Coast led to an unusually warm and humid air mass for this time of the year. The warm and humid air combined with an approaching cold front to trigger showers and thunderstorms. Heavier showers and

Storm Data and Unusual Weather Phenomena - October 2010

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

thunderstorms produced large amounts of rain in a short period of time.

MARYLAND, Central

(MD-Z014) ANNE ARUNDEL, (MD-Z016) CHARLES

10/01/10 00:00 EST	0	Coastal Flood
10/01/10 01:00 EST	0	

Low pressure and strong southerly winds allowed water to pool in the Chesapeake Bay and be pushed onshore. Water was also pushed upstream the tidal Potomac River. Coastal flooding was observed along the lower tidal Potomac River and across the Chesapeake Bay.

ANNE ARUNDEL COUNTY --- 0.8 WNW JACOBSVILLE [39.12, -76.53], 0.9 NNW JACOBSVILLE [39.13, -76.52], 1.1 NNE GREEN HAVEN [39.14, -76.54], 0.5 WSW GREEN HAVEN [39.13, -76.56]

10/01/10 00:00 EST	0	Flash Flood (due to Heavy Rain)
10/01/10 01:45 EST	0	Source: Law Enforcement

Numerous basements were flooded in the area. A rainfall total from the area was reported at 9.90 inches.

HARFORD COUNTY --- 0.5 ESE ABERDEEN [39.52, -76.16], 0.8 SE ABERDEEN [39.51, -76.16], 0.9 E ABERDEEN ARPT [39.50, -76.16], 0.6 ENE ABERDEEN ARPT [39.50, -76.17]

10/01/10 01:00 EST	0	Flash Flood (due to Heavy Rain)
10/01/10 02:45 EST	0	Source: Emergency Manager

Route 40 was closed due to flash flooding.

HARFORD COUNTY --- 0.8 SSW HAVRE DE GRACE [39.54, -76.10], 0.8 SSW HAVRE DE GRACE [39.54, -76.11], 0.8 SSW HAVRE DE GRACE [39.54, -76.11], 0.8 SSW HAVRE DE GRACE [39.54, -76.10]

10/01/10 01:00 EST	10K	Flash Flood (due to Heavy Rain)
10/01/10 02:45 EST	0	Source: Emergency Manager

Evacuations were warranted due to high water along Bay Boulevard at Parkway Avenue and Fairway Avenue.

A corridor of moisture funnelled up the eastern seaboard. Bands of heavy rain began to rapidly move into Maryland just after midnight on Thursday morning, September 30. After the initial low pressure passed north of the area late Thursday morning after producing up to 8 inches of rain across portions of Maryland and numerous reports of flash flooding, a brief lull in precipitation occurred Thursday afternoon, before the remnant circulation of former Tropical Storm Nicole moved up the Delmarva Peninsula, reinvigorating heavy rainfall. The heavy rainfall on September 30th caused flash flooding that continued into October 1st.

ANNE ARUNDEL COUNTY --- 0.2 NNW REVELL [39.07, -76.53]

10/11/10 21:02 EST	0.20K	Thunderstorm Wind (EG 50 kt)
10/11/10 21:02 EST	0	Source: Trained Spotter

A branch that was two inches in diameter was blown down at Longmeadow North.

ANNE ARUNDEL COUNTY --- 1.2 ESE EARLEIGH HGTS [39.09, -76.53]

10/11/10 21:02 EST	0	Thunderstorm Wind (EG 52 kt)
10/11/10 21:02 EST	0	Source: Trained Spotter

A wind gust of 60 mph was estimated by a Mariner near Magothy Beach Road and Riverside Drive.

High pressure off the East Coast pumped in warm and moist air over Maryland. An upper-level disturbance passed through in the westerly flow aloft during the evening of the 11th. The upper-level disturbance combined with limited instability to trigger showers and thunderstorms. A couple thunderstorms were able to produce damaging winds.

ST. MARY'S COUNTY --- 1.4 SE HURRY [38.31, -76.76]

10/14/10 16:56 EST	10K	Thunderstorm Wind (EG 78 kt)
10/14/10 16:56 EST	0	Source: Fire Department/Rescue

Several trees were down along Hungry Road. There was also damage to a porch roof.

Storm Data and Unusual Weather Phenomena - October 2010

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

A potent cold front passed through Maryland on the 14th. Warm and moist air ahead of the boundary caused limited amounts of instability. The strong forcing from the front combined with the instability to trigger showers and thunderstorms. An isolated thunderstorm across lower southern Maryland produced damaging winds.

VIRGINIA, North

CULPEPER COUNTY --- 0.9 NW INLET [38.49, -77.94], 0.7 NW INLET [38.49, -77.94], 0.9 WNW INLET [38.49, -77.94], 1.0 NW INLET [38.49, -77.94]	10/01/10 00:00 EST	0	0	Flash Flood (due to Heavy Rain)
	10/01/10 01:45 EST	0	0	Source: Law Enforcement

The underpass at Route 29 and Inlet Road was closed due to flash flooding. A rain gage in the area measured 4.60 inches.

SPOTSYLVANIA COUNTY --- 0.5 SW DUNAVANT [38.37, -77.68], 0.8 S DUNAVANT [38.36, -77.67], 1.4 SW DUNAVANT [38.35, -77.69], 1.2 WSW DUNAVANT [38.36, -77.69]	10/01/10 00:00 EST	0	0	Flash Flood (due to Heavy Rain)
	10/01/10 01:45 EST	0	0	Source: Emergency Manager

Elys Ford Road closed due to flash flooding on Rapidan River. A rain gage in the area measured 5.09".

A corridor of tropical moisture travelled up the Atlantic seaboard, funnelling another area of low pressure that developed along the Carolina coastline through the Mid-Atlantic. Bands of heavy rain began to rapidly move into northern Virginia just after midnight on Thursday morning, September 30. After the initial low pressure passed north of the area late Thursday morning after producing up to 5 inches of rain and numerous reports of flash flooding across portions of northern Virginia, a brief lull in precipitation occurred Thursday afternoon, before the remnant circulation of once Tropical Storm Nicole moved up the Delmarva Peninsula, reinvigorating heavy rainfall. The heavy amounts of rain on the 30th caused flash flooding that continued into the first of October.

FAIRFAX COUNTY --- 1.3 N ILDA [38.85, -77.25], 0.9 WNW DUNN LORING [38.88, -77.25], 0.7 WNW DUNN LORING [38.88, -77.24], 1.2 W TREMONT [38.85, -77.24]	10/27/10 11:50 EST	0	0	Flash Flood (due to Heavy Rain)
	10/27/10 14:00 EST	0	0	Source: Emergency Manager

Prosperity Avenue was closed due to flash flooding between the 3700 and 3800 Blocks.

A southerly flow around high pressure off the East Coast led to an unusually warm and humid air mass for this time of the year. The warm and humid air combined with an approaching cold front to trigger showers and thunderstorms. Heavier showers and thunderstorms produced large amounts of rain in a short period of time.

KING GEORGE COUNTY --- 1.5 NW INDEX [38.19, -77.10]	10/27/10 16:00 EST	1.50K	0	Thunderstorm Wind (EG 56 kt)
	10/27/10 16:00 EST	0	0	Source: Public

Two trees were topped near Welcome.

A southerly flow around high pressure off the East Coast led to an unusually warm and humid air mass for this time of the year. The warm and humid air mass caused an unstable atmosphere to develop. The combination of the instability and an approaching cold front led to the development of showers and thunderstorms. An isolated thunderstorm did produce damaging winds over the Virginia Piedmont.