Storm Data and Unusual Weather Phenomena - November 2011

	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MARYLAND, Central				
(MD-Z004) FREDERICK, (MD-Z009) MO	INTCOMERY			
(MD-2004) FREDERICK, (MD-2009) MC	11/07/11 05:36 EST		0	Dense Fog
	11/07/11 09:47 EST		0	Delise Fog
High pressure over the region allowed areas of dense fog to develop during t		rly morning hours	of the 7th. Radiat	ional cooling allowed for
(MD-Z016) CHARLES, (MD-Z017) ST. M	IARY'S, (MD-Z018) CALVERT			
	11/09/11 04:00 EST		0	Dense Fog
	11/09/11 10:39 EST		0	
High pressure provided mainly clear s lower southern Maryland.	kies along with light winds. Radiatio	nal cooling led to t	the development o	of fog across portions of
(MD-Z006) NORTHERN BALTIMORE, (I		MD-Z013) PRINCE	GEORGES, (MD-Z	2014) ANNE ARUNDEL, (MD-Z016)
CHARLES, (MD-Z017) ST. MARY'S, (MI	D-Z018) CALVERT 11/10/11 00:00 EST		0	Dense Fog
	11/10/11 00:00 EST 11/10/11 09:56 EST		0	Dense Fog
	11/10/11 09:30 E01		Ü	
High pressure provided a good setup to cooling and relatively high amounts of		-		ombination of radiational
	REDERICK, (MD-Z005) CARROLL			
(MD-Z003) WASHINGTON, (MD-Z004) F				
High pressure to the south caused a li	11/21/11 01:23 EST 11/21/11 07:59 EST ght southerly flow during the evenin			
(MD-Z003) WASHINGTON, (MD-Z004) F High pressure to the south caused a li to move into the area due to the south amounts of low-level moisture for area	11/21/11 01:23 EST 11/21/11 07:59 EST ght southerly flow during the evenin erly flow. Radiational cooling during as of dense fog to develop.	the early morning	0 amounts of low-low-lowrs of the 21st	evel moisture were able combined with the high
High pressure to the south caused a li to move into the area due to the south amounts of low-level moisture for area	11/21/11 01:23 EST 11/21/11 07:59 EST ght southerly flow during the eveningerly flow. Radiational cooling during as of dense fog to develop.	the early morning	0 amounts of low-lohours of the 21st	evel moisture were able combined with the high MS CREEK [39.50, -77.11], 1.0 W
High pressure to the south caused a li to move into the area due to the south amounts of low-level moisture for area CARROLL COUNTY 1.7 WNW SAMS	11/21/11 01:23 EST 11/21/11 07:59 EST ght southerly flow during the evenin erly flow. Radiational cooling during as of dense fog to develop. 6 CREEK [39.51, -77.13], 1.6 WNW SA 11/23/11 01:45 EST	the early morning	0 amounts of low-le hours of the 21st , -77.13], 0.8 W SA	evel moisture were able combined with the high MS CREEK [39.50, -77.11], 1.0 W Flood (due to Heavy Rain)
High pressure to the south caused a li to move into the area due to the south amounts of low-level moisture for area CARROLL COUNTY 1.7 WNW SAMS	11/21/11 01:23 EST 11/21/11 07:59 EST ght southerly flow during the eveningerly flow. Radiational cooling during as of dense fog to develop.	the early morning	0 amounts of low-lohours of the 21st	evel moisture were able combined with the high MS CREEK [39.50, -77.11], 1.0 W
High pressure to the south caused a li to move into the area due to the south amounts of low-level moisture for area CARROLL COUNTY 1.7 WNW SAMS SAMS CREEK [39.50, -77.12]	11/21/11 01:23 EST 11/21/11 07:59 EST ght southerly flow during the evening erly flow. Radiational cooling during as of dense fog to develop. 6 CREEK [39.51, -77.13], 1.6 WNW SA 11/23/11 01:45 EST 11/23/11 07:45 EST	the early morning	amounts of low-le hours of the 21st , -77.13], 0.8 W SA 0 0	evel moisture were able combined with the high MS CREEK [39.50, -77.11], 1.0 W Flood (due to Heavy Rain) Source: Fire Department/Rescue
High pressure to the south caused a lite of move into the area due to the south amounts of low-level moisture for area CARROLL COUNTY 1.7 WNW SAMS SAMS CREEK [39.50, -77.12] Sams Creek Road was closed between FREDERICK COUNTY 1.2 SSW MT F	11/21/11 01:23 EST 11/21/11 07:59 EST ght southerly flow during the evening erly flow. Radiational cooling during as of dense fog to develop. 6 CREEK [39.51, -77.13], 1.6 WNW SA 11/23/11 01:45 EST 11/23/11 07:45 EST Route 31 and Oak Orchard Road due	the early morning MS CREEK [39.51] to earlier rainfall.	o amounts of low-lihours of the 21st , -77.13], 0.8 W SA 0 0 0	evel moisture were able combined with the high MS CREEK [39.50, -77.11], 1.0 W Flood (due to Heavy Rain) Source: Fire Department/Rescue reported 3.04 inches of rain.
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Storm Data and Unusual Weather Phenomena - November 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	DIESBURG [39.57, -77.23], 2.2 ESE LAD	ESBURG [39.57,	-77.23], 2.9 NNE J	OHNSVILLE [39.57, -77.21], 2.8 NNE
JOHNSVILLE [39.57, -77.21], 2.6 N JC	0HNSVILLE [39.57, -77.22] 11/23/11 01:45 EST		0	Flood (due to Heavy Rain)
	11/23/11 07:45 EST		0	Source: Fire Department/Rescue
0		l'an natafall Anna		·
Good Intent Road was closed near Sir	npsons Mill road due to flooding from ear	lier rainfall. A nea	arby observer repor	ted 2.79 inches of rain.
FREDERICK COUNTY 2.5 E LADIE [39.58, -77.22]	SBURG [39.58, -77.22], 2.2 E LADIESBU	JRG [39.58, -77.23	3], 2.2 E LADIESBU	JRG [39.58, -77.23], 2.5 E LADIESBURG
	11/23/11 01:45 EST		0	Flood (due to Heavy Rain)
	11/23/11 07:45 EST		0	Source: Fire Department/Rescue
Claybaugh Road was closed at Johns	ville road due to flooding from earlier rain	fall. A nearby obs	erved recorded 2.7	7 inches of rain.
CARROLL COUNTY 0.9 SW NEW \	WINDSOR [39.54, -77.11], 1.4 NNE GIST	[39.47, -76.99], 0.	9 SE BRUMMEL [3	9.59, -76.92], 0.4 ENE TYRONE [39.62,
77.09]			_	•
	11/23/11 02:00 EST		0	Flood (due to Heavy Rain)
	11/23/11 08:00 EST		0	Source: State Official
Twenty to twenty-five county roads and 3.04 inches.	d 3 to 4 state roads were closed due to hi	igh water in Carro	ll County. A rainfal	l observer near Taneytown recorded
FREDERICK COUNTY 0.3 WNW LC	DYS [39.60, -77.36], 0.2 WNW LOYS [39.	60, -77.35], 0.5 N		
	11/23/11 02:00 EST		0	Flood (due to Heavy Rain)
	11/23/11 08:00 EST		0	Source: Fire Department/Rescue
Numerous roadways were closed acro nches of rain.	ess Frederick County, including Old Frede	erick Road at Old I	Mill Road. An obse	erver near this intersection reported 2.10
	LBURG [39.60, -77.04], 0.5 N MEXICO [39.61, -76.95], 0.5	W REESE [39.55,	-76.96], 0.9 NNE MEDFORD [39.56,
77.04]	11/23/11 05:00 EST		0	Flood (due to Heavy Rain)
	11/23/11 07:00 EST		0	Source: Fire Department/Rescue
A swift-water rescue was performed in Westminster tallied 2.99 inches of rain	Westminster. The rainfall that caused the	ne event happened	d a number of hour	s before the event. An observer in
041	AR [39.61, -77.24], 0.6 NNW KEYMAR [3	9.61, -77.23], 0.9	N KEYMAR [39.61,	, -77.23], 1.3 NNW KEYMAR [39.62,
77.24]	11/23/11 06:00 EST		0	Flood (due to Heavy Rain)
	11/23/11 12:00 EST		0	Source: State Official
Covervilla Prugovilla Boad was algoed	at Route 194 due to flooding. A nearby o	hoon or recorded		
A low pressure passed north of the r producing widespread light to model	region during the morning. It's associat rate rain and saturating ground. When in Carroll and Frederick counties. Rain	ed warm front lift a band of modera	ted through Maryla ate to heavy rain m	and early in the morning, noved across as a cold
VIRGINIA, North				
VA-Z042) LOUDOUN. (VA-Z051) CIII	.PEPER, (VA-Z052) PRINCE WILLIAM, (\	/A-Z053) FAIRFA	X. (VA-Z502) SOUT	THERN FAUQUIER
, -,,	11/07/11 03:15 EST		0	Dense Fog
	11/07/11 10:35 EST		0	Č
High pressure over the region allowe areas of dense fog to develop during	ed for radiational cooling during the ear	ly morning hours		ional cooling allowed for
(VA-Z057) KING GEORGE	11/09/11 04:15 EST		0	

11/09/11 10:39 EST

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0

Storm Data and Unusual Weather Phenomena - November 2011

Location Date/Time Deaths & Property & **Event Type and Details** Injuries Crop Dmg High pressure provided mainly clear skies along with light winds. Radiational cooling led to the development of fog across portions of the Virginia Piedmont. (VA-Z057) KING GEORGE 11/10/11 06:00 EST 0 Dense Fog 11/10/11 08:52 EST 0 High pressure provided a good setup for radiational cooling during the early morning hours of the 10th. The combination of radiational cooling and relatively high amounts of low-level moisture caused areas of dense fog to develop across the Virginia Piedmont. NELSON COUNTY --- 1.8 SE MONTEBELLO [37.85, -79.13], 2.0 SE MONTEBELLO [37.85, -79.13], 2.2 SSE MONTEBELLO [37.84, -79.14], 2.0 SSE MONTEBELLO [37.84, -79.14] 11/29/11 07:00 EST 0 Flood (due to Heavy Rain) 11/29/11 13:00 EST 0 Source: Department of Highways Seaman Lane was impassible due to flooding. ALBEMARLE COUNTY --- 3.3 WSW GREENWOOD [38.04, -78.83], 3.3 WSW GREENWOOD [38.04, -78.83], 3.4 WSW GREENWOOD [38.04, -78.83], 3.5 WSW GREENWOOD [38.04, -78.83], 3.6 WSW GREENWOOD [38.04, -78.83], 3.7 WSW GREENWOOD [38.04, -78.83], 3.8 WSW GREENWOOD [38.04, -78. WSW GREENWOOD [38.04, -78.83] 11/29/11 08:00 EST 0 Flood (due to Heavy Rain) 11/29/11 14:00 FST 0 Source: Department of Highways Rockfish Gap Turnpike was impassible due to flooding along a small stream just west of Little Rock Lane. A plume of moisture on the east side of a broad low pressure centered over the Ohio Valley combined with ample lift enhanced by terrain across the central Virginia foothills to produce widespread moderate to heavy rain during the morning. Rainfall amounts,

WEST VIRGINIA, East

ı	WV-70521	RERKEI EY	(WV-7053)	JEFFERSON
۱	** * ~	DEIXIXEEE I,	(* * * -2000)	OLI I LINGOIN

11/21/11 03:07 EST 0 Dense Fog

11/21/11 09:13 EST 0

High pressure to the south caused a light southerly flow during the evening of the 20th. High amounts of low-level moisture were able to move into the area due to the southerly flow. Radiational cooling during the early morning hours of the 21st combined with the high amounts of low-level moisture for areas of dense fog to develop.

reported as high as 1.70 near Advance Mills, caused a couple of flood events in Nelson and Albemarle Counties.

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