



<http://www.jhuapl.edu/weather/education/ACONdata.html>

ATLANTIC COAST OBSERVER NETWORK, MD / DE / DC CHAPTER WITH DATA FROM NEARBY AREAS

MID MONTH NOR'EASTERS BRING COLD, WET, RAW CONDITIONS AND SOME SNOW

October was a cool, wet month. Almost all the months precipitation fell during three events after a dry first two weeks. Some snow fell in North Central and Western Maryland.

The most memorable event this month were the back to back nor'easters between the 15th and 18th. Daily maximum temperatures, which failed to rise out of the 40's east of the mountains, set daily records for the coldest maximums at NWS stations. Some ACON observers also reported daily record minimum maximums. Temperatures failed to rise out of the 30's in Western Maryland. Wet snow was reported during the pre-dawn hours of the 18th in Carroll County. Measurable snowfall was reported by the following observers east of the mountains: **Herb Close of Manchester 1 SW 0.4"**, **Bobby Miller of Millers 4 NE 0.3"**, **Ralph Hartsock of Westminster 4 SSE 0.1"**. In Baltimore County **Marty Sharrow of Owings Mills 2 SE** measured 0.1". Snow fell as far south as **Clarksburg 2 ENE** in Montgomery County where **Richard Holden** reported a trace and in the Western Maryland mountains where **Rebecca Harvey of Eagle Rock** reported 2.0". Rainfall amounts from these two nor'easters totaled over 2 inches east of Allegany County with 3 inches plus east of the Blue Ridge to the Chesapeake Bay. The heaviest observed amounts fell in St Marys County where **John Zyla of Ridge** reported 4.18", **Floyd Abell of Hollywood 4.03"** and in Anne Arundel County where **Dan Hanson of Pasadena 2 N** reported 4.05".

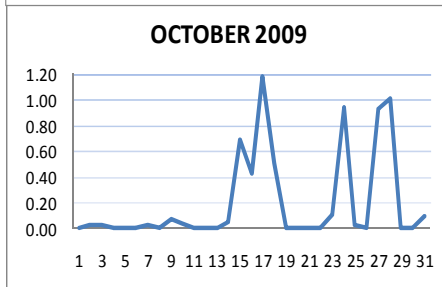
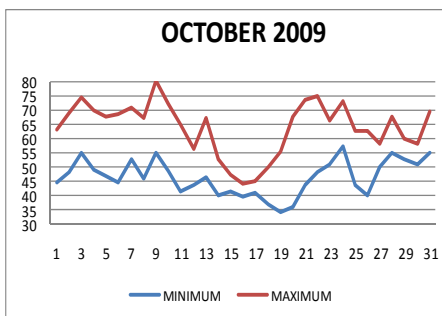
The first 10 days were dry with light precipitation falling generally on the 2nd, 7th, 9th and 10th. Amounts were generally less than a tenth of an inch east of Carroll County. Amounts increased from four tenths of an inch in Carroll County to an inch in Garrett County. Temperatures were pleasant for October during this period. The warmest days were the 3rd and the 9th. Mid 70's were common on the 3rd and 80's on the 9th including $\geq 85^\circ$ from



Photo by Herb Close of Manchester 1 SW

Montgomery County southeast to St Marys County. Strong winds associated with a FROPA occurred mid day on the 7th. Gusts of 50 MPH plus occurred. The strongest gusts reported by ACON

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ACON MD/DE Network

Daily average temperatures and precipitation based on observation times, not calendar days.

EXTREMES REPORTED BY

ACON OBSERVERS

MAXIMUM TEMPERATURE

Glenmont 1 NNE	87
Forest Glen	86
Six Stations	85

MINIMUM TEMPERATURE

Davis 3 SE WV	25
Eagle Rock	26
Smithsburg 1.5 SW	26
3 Stations	30

WARMEST AVG. TEMP.

Ridge	59.2
Baltimore 3 SE	58.9
Hollywood	58.3

COLDEST AVG. TEMP.

Davis 3 SE WV	45.8
Frostburg	48.1
Eagle Rock	48.6

MAXIMUM PRECIPITATION

Hollywood	8.68
UofD DEOS Harbeson 8S	8.01
UofD DEOS Georgetown	7.19

MINIMUM PRECIPITATION

Bethesda	4.37
Hagerstown 1 E	4.37
Frostburg	4.73

MAXIMUM SNOWFALL

Davis 3 SE WV	3.6
Eagle Rock	2.2
Manchester 1 SW	0.4

Herb Close of Manchester 1 S is holding his annual Weather Gathering on Saturday, December 5th. Contact either Herb, Kevin or Gary for directions or information.

OBSERVER COMMENTS FOR OCTOBER 2009

Gary Gallaher of Bear 2 SW, DE

Cool, wet month.

14th—16th - Daily record minimum maximum temperatures broken each day.

15th & 17th - Two nor'easters within 3 days brought three consecutive "Raw" days with max's only in the 40's.

19th & 20th - Scrapable frost on cars.

24th - Thunderstorm with heavy rain during the evening.

Greg Latta of Frostburg

16th & 17th - Heavy fog, visibility < 1/2 mile.

Nate Mullins of LaVale

14th—18th - Five consecutive days with record low maximum temperatures. Rain was mixed with snow and sleet at higher elevations.

16th - Max of 38° set a record for the earliest in the season.

29th - Record high min of 54° broke the 53° set in 2004.

Jeff Stoudt of Laurel 2 E

17th - Rain, heavy at times.

24th - Heavy thunderstorm late afternoon.

Marty Sharrow of Owings Mills

3rd - AM clouds; then mostly sunny and warm.

9th - Sunny, breezy, and much warmer.

18th - Rain & AM wet snow, then partly cloudy and milder.

20th - Frosty start, then sun and much warmer.

Joe Manfre of Baltimore 2SE

16th - Cloudy, cold, light rain and drizzle.

31st - Mild, occasional drizzle and light rain.

Ralph Hartsock of Westminster 4 SSE

7th - Brief shower, clearing, windy, wind advisory. Lot of power outages.

18th - Woke up to snow on grass and mulch.

24th - Windy, warm, humid PM rain and thunderstorm.

28th - More rain, heavy at times.

Bobby Miller of Millers 4 NE

1st - Heavy AM dew.

8th - Increasing clouds with afternoon virga. A few drops of rain late evening.

14th - Scattered light frost.

18th - 3 AM: moderate snow, visibility 1/2 mile. First October snow in 30 years.

19th - AM frost, clear skies, 100% sun.

Ray Muller of Westminster City

Past six months with above normal precipitation.

Marty Brumback of Bryans Road 2 ESE

21st - Spectacular day. Sunny, cool, with low humidity.

24th - Showers prior to FROPA, humid, windy.

Eric Glass of Emmitsburg 2 SE

2nd - Very light drizzle, cool.

28th - Steady rain.

Rob Cohen of Potomac 4 N

19th - Light frost on roofs.

24th - 3 PM Thunderstorm

Rich Giannola of Olney 1 S

14th—18th - RA began in afternoon on the 14th. Rainfall was 0.13" by 6:20 AM on the 15th. Rainy day on the 15th. RA and DZ on the 16th totaled 1.04" more by 7:30 PM. RA on 17th = 1.43" more by 11:00 PM. RA continued on the 18th into morning, totaling 0.49" more before ending..

Richard Holden of Clarksburg 2 ENE

7th - Light rain. AM minimum temperature 60°.

18th - Moderate rain / light snow.

24th - Heavy rain. AM minimum temperature 62°.

Stan Rossen of Glenmont 1 NNE

15th—18th - Precipitation continued for over 72 ½ hours from 0530 EST on 10/15 to 0605 EST on 10/18. During this time the precipitation never quite stopped, a light mist continued to fall even when the radar showed nothing.

16th - 43°, second coldest October maximum temperature. Only 10/30/2002 was colder when the max was 40°.

Kevin Shaw of Gaithersburg 2 WNW

No freezing temperature this month for only 5th October out of 31 years of records. 4th wettest October. Daily rainfall records set on 4 days.

14th—18th - Cold rainy period. Daily record low maximum temperature set each day.

19th - Sunny, drying out still cool - frosty AM.

Joe Terry of Forest Glen

9th - Hot and more humid. Dew points rising all day from 50 to 70 degrees.

27th - Surprise thunderstorm very early, only one long, rumble of thunder around 1 AM. First thunder since 9/28.

Floyd Abell of Hollywood

Wettest October in station history. Only 0.01" falling during the first 14 days.

24th - Heavy late day and evening showers.

John Zyla of Ridge

7.18" of rain made this the second wettest October behind 7.27" that fell in 2002.

12th - Cool, grey day.

17th - Heavy rain from 4 AM to 7 AM

Max Hutto of Smithsburg 1.5 SW

10th - Overnight showers, much cooler, breezy.

14th - Cold AM with light frost, day very cool, PM drizzle.

Greg Keefer of Hagerstown 1 E

19th - Morning moderate to heavy frost. Temperature was 32 or below for 4 hours so this is considered a killing freeze.

Jim Vaughn of Smithsburg 2 NE

12th, 15th—18th - Each day set a new daily minimum maximum temperature.

24th - PWG 60 MPH set a new October monthly high surpassing 58 MPH set on 10/28/2006.

Compiled by Gary Gallaher, MD/DE ACON Data Collector and Report Writer, from data received from dedicated observers. Without your observations each month this report will not be possible.

ACON OCTOBER 2009 REPORT

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observers were 49 MPH by **Jim Vaughn** of **Smithsburg 3 NE**, 48 MPH from the West by **Bobby Miller** of **Millers 4 NE**, and 47 MPH from the Northwest by **Greg Keefer** of **Hagerstown 1 E**. NWS ASOS Wilmington DE reported a 52 MPH gust from the West and NWS BWI ASOS a 48 MPH gust from the West.

Upwards of two inches plus of rain fell during the event of the 23rd and 24th. Heavy showers and thunderstorms occurred during the afternoon and early evening of the 24th. Rainfall amounts from this event as reported by ACON observers varied from as little as 0.25" by **Stan Rossen** of **Glenmont 1 NNE** to 2.27" by **Nate Mullins** of **LaVale**.

The next significant rainfall event occurred on the 27th and 28th. Amounts were generally in the 1 inch to 2 inch range. Below are the greatest amounts reported by ACON observers:

3.97" **UofD DEOS** of **Harbeson 8 S DE**
3.92" **UofD DEOS REC** of **Georgetown DE**
3.36" **Floyd Abell** of **Hollywood**
2.45" **Marty Brumback** of **White Plains 5.5 WNW**

The 31st, Halloween, was mild with light rain during the late afternoon and evening.

Pictures of Joe Terry's Weather Station located in Forest Glen.



Equipment:

Bottom left - Acoustic Snow Depth Sensor
Left - Manual Precip Gauge & Tipping Bucket
Center - Stevenson Screen Instr. Shelter
Right - Lightning Detector Antenna



Instrument Shelter - Newly built from scratch by Joe from the original specifications of a Stevenson Screen.



Rooftop Wind Sensors

Young and Hanson Anemometers



Snow Depth Sensor

If anyone has pictures of their weather station that you would like to include in a future report please forward them. Formats accepted are digital and prints. Prints will be scanned and returned if requested.