



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

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

ABNORMALLY HIGH NUMBER OF DAYS WITH WINDS WITH AN EASTERLY COMPONENT

September's temperature averaged below normal mainly due to half a dozen days when the temperature failed to rise out of the 60's. There were no 90 degree or sub 40 degree temperatures reported. Rainfall varied across the region with the wettest in Northern Maryland from Carroll County eastwards and east of the Chesapeake Bay. No tropical systems affected the region but there was a "cold core" storm which dumped heavy rains upwards of 4 1/2" in Delaware and North Central Maryland.

The month began where August left off, i.e. pleasant and cool. The first seven days saw pleasant "cool" temperatures for early September with max's generally in the 70's and min's in the 50's except for the 5th when maximums rose to the mid to upper 80's. Light rain fell on the 6th around Washington DC and to its east and south. Most amounts were generally less than half an inch except for **Jug Bay Wetlands of Lothian** where 1.63" fell.

Labor Day, the 7th, was overcast with maximum temperatures in the 70's and minimums temperatures in the 60's. Rain from a developing storm off the North Carolina coast that dropped heavy rain on the Outer Banks moved northwards. Amounts were generally less than a quarter on an inch.

Impulses of rain from the storm off the North Carolina coast slowly drifted northwards on the 8th thru the 10th. Amounts were generally less than a quarter of an inch. Wind driven heavy rains moved into southern Delaware on the 8th and Northern Delaware, Northeastern and Northern Maryland on the 9th. Rainfall amounts of two to four plus inches were common. Close to an inch fell around Washington DC. The rain and wind held maximum temperatures down into the 60's setting daily record minimum maximum temperatures at some stations. See page 3 for a satellite picture of the storm.

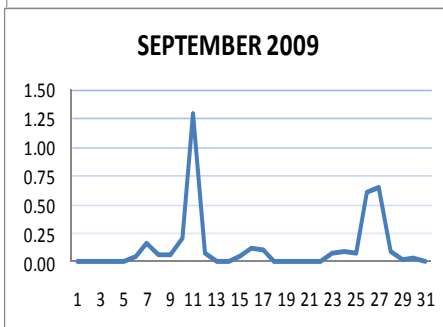
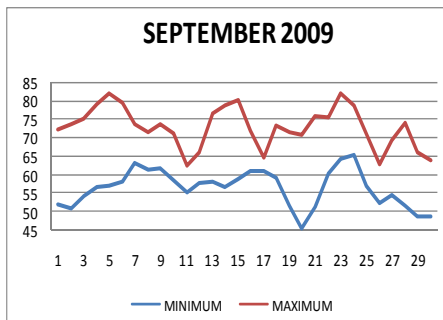
Below in the table are the heaviest rains reported on the 10th and 11th:

David Legates of Middletown 6N DE	4.66"
UofD DEOS Townsend 4 W DE	4.05"
Gary Gallaher of Bear 2 SW DE	3.82"
UofD DEOS Harbeson 8 S DE	3.65"
UofD DEOS Newark DE	3.15"
Marty Sharrow of Owings Mills 2SE	3.34"
Dan Hanson of Pasadena 2 N	2.43"
Herb Close of Manchester 1 S	2.13"
Bobby Miller of Millers 4 NE	2.10"

After the storm moved away temperatures warmed up to 80 from the 13th to the 15th. Rainfall amounts of less than half an inch fell on the 15th & 16th. **Jug Bay Wetlands** in **Lothian** reported 1.61" of rain at observation on the 16th.

The coldest air at many stations occurred on the 19th and 20th when temperatures fell into the 40's. Summer-like

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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

Hollywood	89
Lothian	88
White Plains 5.5 WNW	88
Forest Glen	88
Hagerstown 1 E	88

MINIMUM TEMPERATURE

Bear 2 SW DE	41
Manchester 1 SW	41
Davis 3 SE WV	41
Millers 4 NE	42
Eagle Rock	42
Smithsburg 1.5 SW	42

WARMEST AVG. TEMP.

Baltimore 2 SE	70.3
Ridge	69.1
Hollywood	68.7

COLDEST AVG. TEMP.

Davis 3 SE WV	57.4
Eagle Rock	60.5
Frostburg	60.6

MAXIMUM PRECIPITATION

Middletown 6 N DE	7.02
Lothian	6.95
Bear 2 SW DE	6.04

MINIMUM PRECIPITATION

Hagerstown 1 E	2.04
LaVale	2.17
White Plains 5.5 WNW	2.25

Herb Close of Manchester 1 S is holding his annual Weather Gathering on Saturday, December 5th. More info to follow from Kevin.

OBSERVER COMMENTS FOR SEPTEMBER 2009

Gary Gallaher of Bear 2 SW, DE

Cool, wet month with many pleasant days. Maximum temperature of 84 was one degree above the minimum maximum monthly temperature for September set in 1975.

11th - 3.75" of rain—the third greatest daily amount for September on record.

Nate Mullins of LaVale

September's weather was relatively uneventful with slightly above normal temps owing to well above normal minimums.

7th - Record high minimum temperature of 68°.

26th - Steady rain all day, heavy at times. Total 1.06"

Jeff Stoudt of Laurel 2 E

There were no unusual extremes of heat or cold this month. Two moderately heavy rainfalls, 11th & 26th, plus several minor ones added to a moderately sub normal monthly total.

11th - Steady -RA except +RA 0400 to 0600.

Marty Sharrow of Owings Mills

On the whole, September was a much wetter than normal month thanks to a heavy rain episode on the 11th that produced 3.28" of rain. The nearby Jones Falls flooded and flash flood warnings were posted for Baltimore County.

1st - Cool beginning, sunny, dry, comfortable.

20th - Cold start, then sunny and dry.

26th - Overcast, breezy, cool, with afternoon and night rain.

Joe Manfre of Baltimore 2SE

13th - Partly cloudy, breezy, warm, less humid.

26th - Cloudy, cool. Rain beginning in mid afternoon.

29th - Partly cloudy, mild, windy in the afternoon.

Ralph Hartsock of Westminster 4 SSE

2nd - Very cool start, then sunny and mild.

11th - Heavy rain, from coastal storm.

18th - Fog early, drizzle, PM sunny and warmer.

Bobby Miller of Millers 4 NE

11th - Bands of moderate to heavy rain.

22nd & 23rd - Morning heavy fog

23rd - Evening thunderstorm, 0.21" in five minutes.

28th - Sunny, windy afternoon. Light shower 2PM, sharp drop in relative humidity.

Ray Muller of Westminster City

11th - Rain moderate to heavy.

20th - Maximum barometer 30.36"

Marty Brumback of Bryans Road 2 ESE

22nd - Mostly cloudy and humid.

Eric Glass of Emmitsburg 2 SE

5th - Clear and pleasant.

8th - Heavy low clouds, calm, and cool.

29th - Cloudy, windy, and cool.

Rich Giannola of JHU/APL

Max barometer 30.32" on the 10th

Min barometer 29.46" on the 28th.

Rob Cohen of Potomac 4 N

An abnormally normal month, no extreme temps or notable weather events. No thunder. Temps about a degree below normal.

Rich Giannola of Olney 1 S

11th - Rainy, dreary day. Rain ended in the evening.

28th - Thundershower 3:35 - 4:15 PM.

Kevin Shaw of Gaithersburg 2 WNW

Two thirds of the months rain fell in the second half of the month. The month turned out with normal temperatures, created with equally above min temps and below max temps. 16 days of measurable rain tied a record for September set in 1987 and 1996. The low minimum for the month of 49° was my highest ever surpassing the record of 48° set in 2008.

10th - 71° daily record low maximum temperature.

11th - 62° daily record low maximum temperature.

24th - 70° daily record high minimum temperature.

Joe Terry of Forest Glen

Interesting feature this month was the predominance of easterly winds—18 days, including the first 10 days, had an average wind direction with an easterly component.

26th - First >1" daily rain total since June 18th.

28th - Huge relative humidity drop from 87% to 38% in an hour and a half (1730 - 1900) with a frontal passage.

Brian Smith of Oxon Hill

6th - Surprise +SHRA 2100 - 2300!

Floyd Abell of Hollywood

6th - Fair day then evening showers.

11th - Morning rain, cloudy afternoon and evening.

27th - Rain ending early morning, clearing.

John Zyla of Ridge

7th - 8th - Rain 8:30 PM to midnight on the 7th, heavy between 12AM - 2:50 AM on the 8th. Thunder on the 8th.

23rd - Hot, humid

28th - Thunderstorm 6:21 - 7:15 PM, 0.09".

Max Hutto of Smithsburg 1.5 SW

6th - Continued warm, breezy.

23rd - Mostly cloudy, very warm, PM thunderstorm, windy.

Greg Keefer of Hagerstown 1 E

11th - Cold and rainy all day, high only 61°. After 9 straight days of persistent east winds they finally shifted to NNW today. I don't ever recall that many days of east winds.

23rd - Partly cloudy, very warm and humid today. Thunderstorm this evening around 9 PM.

28th - Overnight and morning fog. Becoming windy this afternoon and evening with west winds gusting to 35 mph.

Jim Vaughn of Smithsburg 2 NE

September was the 6th coolest in the last 57 years.

1st - Min. temp. of 49 tied daily min. record set in 1967.

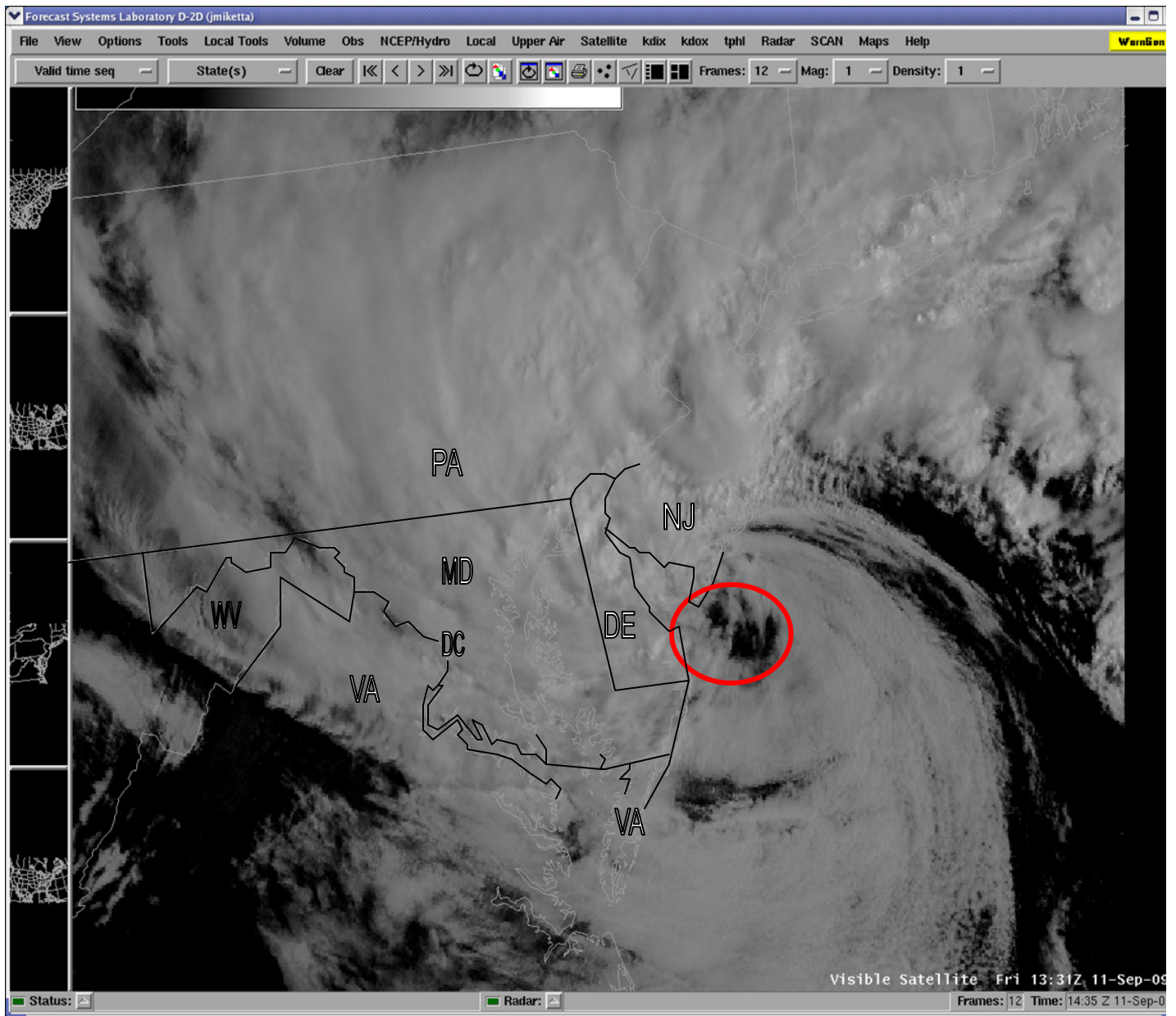
11th - Maximum temperature of 60 broke old daily min maximum temperature of 66 set in 2006.

23rd - Minimum temperature of 67 broke the old daily max minimum temperature of 64 set 1961, and the rain of 0.85" surpassed the old daily record of 0.73 set in 2003.

Lance Shaffer of Sterling 4 N VA

1st - Fall like day.

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.



Visible Satellite Picture Friday, September 11, 2009 at 13:31Z (9:31 AM EDT)

Note the “eye” off the Delaware Coast where the ocean buoy reported light winds.

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humidity occurred on the 22nd and 23rd along with temperatures in the 80’s with some showers and thunderstorms.

The last wet period occurred on the 25th to the 28th. Over an inch of rain fell across most of the region. On the next column is a table on the

heaviest amounts reported by ACON observers:

Jug Bay Wetlands, Lothian	2.06”
UofD DESO Harbeson 8S DE	1.79”
Brian Smith of Oxon Hill	1.78”
John Zyla of Ridge	1.75”
David Roth of Mont. Village 1 SW	1.72”
Floyd Abell of Hollywood	1.69”

A cold front which moved through on the 28th brought winds gusting into the 30+ MPH range and rapidly dropping dew points. The month ended on a cool note with maximum temperatures in the 60’s and minimum temperatures in the 40’s. Light rain fell late on the 30th