



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

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

Quiet, Dry month - Warm Thanksgiving

November was an uneventful month. Temperatures averaged near to below normal while precipitation was below normal even though rain fell on a dozen days. Other than a Trace of snow reported by **Herb Close** of **Manchester 1 SW** and **Bryon Lawrence** of **Frederick 3 WNW** on the 9th no snow fell east of the mountains.

Noel, the last but deadliest hurricane of the 2007 season, had no effect on the region as it passed rapidly northwards well off the coast early on the 2nd and 3rd as an extratropical cyclone. See page 3 for a chart of all of the 2007 tropical systems in the Atlantic Basin.

Jeff Stoudt of **Laurel 2 E** summed up the month by saying "The pattern change that began during the closing days of October persisted through November, and the result was typical mid to late fall temperatures. The soaking rains of late October proved to bring only temporary relief from the prevalence of sub normal precipitation this year."

The month began dry and warm. Maximum temperatures on the 1st ranged from the mid 60's to the mid 70's. A cold front which moved through late on the 1st dropped maximum temperatures 15 degrees for the 2nd. The first rains fell on the 5th and 6th. Amounts were generally less than two tenths on an inch. The heaviest amounts fell in the Maryland Mountains and in Southern Delaware.

The first area-wide frost with freezing temperatures occurred on the 8th at all but a few urban and far southern stations. Maximum temperatures on both the 8th and 9th were generally in the 40's while minimums fell into the mid 20's to the lower 30's.

From the 9th to the 20th rain fell on 8 days. Most of the amounts were light. The wettest day of the month was the 15th. Amounts were generally around two thirds of an inch. Rainfall amounts of over an inch were reported by the following ACON observers: **Max Hutto** of **Smithsburg 1.5 SW 1.28"**, **Bryon Lawrence** of **Frederick 3 WNW 1.15"**, and

Brian Smith of **Oxon Hill 1.02"**. **Rebecca Harvey** of **Eagle Rock** reported 1.10" and 3.0" of snow during the event of the 15th & 16th.

Four to six tenths of an inch of rain fell on the 18th and 19th along the Pennsylvania border from Carroll County east though Northern Delaware. Little to no rain fell from Baltimore southwards.

The warmest temperatures of the month moved into the region on the 21st, the day before Thanksgiving, and remained into the 22nd. **Jug Bay Wetland** at **Lothian** reported 78°, **Joe Terry** of **Forest Glen 77°**, and **Stan Rossen** of **Glenmont 1 NNE 76°**. A strong cold front, accompanied by scattered light rain showers and strong winds, moved across the region Thanksgiving afternoon. Wind gusts upwards of 50 mph occurred. **Greg Keefer** of **Hagerstown 1 E** reported 48 mph, **Rich Giannola** of **Laurel JHU/APL 46 mph**. Maximum temperatures on the 23rd and 24th dropped into the 40's. The coldest morning of the month occurred on the 24th. Upper teens occurred along the Pennsylvania border.

The cold was short lived. 60's returned for the 26th and 27th. The last showers of the month occurred on the 26th. The heaviest rains fell in Carroll County. **Max Hutto** of **Smithsburg 1.5 SW** and **Rebecca Harvey** of **Eagle Rock** both reported 0.87". The last three days were seasonally warm and dry.

EXTREMES REPORTED BY

ACON OBSERVERS

MAXIMUM TEMPERATURE

Jug Bay Wetlands	78
Forest Glen	77
Glenmont 1 NNE	76

MINIMUM TEMPERATURE

Eagle Rock	11
Davis 3 SE WV	11
Frostburg	16

WARMEST AVG. TEMP.

Ridge	50.0
Baltimore 2 SE	49.2
Hollywood	48.9

COLDEST AVG. TEMP.

Davis 3 SE WV	35.9
Frostburg	38.1
Eagle Rock	39.1

MAXIMUM PRECIPITATION

Smithsburg 1.5 SW	3.57
Eagle Rock	3.18
Smithsburg 2 NE	3.17

MINIMUM PRECIPITATION

UofD Georgetown DE	1.15
Bethesda	1.21
Laurel JHU/APL	1.23

MAXIMUM SNOWFALL

Davis 3 SE WV	6.4
Eagle Rock	5.0

IMPORTANT OBSERVING PROCEDURE

THIS PROCEDURE REFRESHER IS DIRECTED TO OBSERVERS WHO DO NOT USE MIDNIGHT AS THEIR OBSERVATION TIME. I HAVE NOTICED A FEW ERRORS ON A FEW FORMS.

TEMPERATURE EXTREMES AND PRECIPITATION AMOUNTS NOTED ON YOUR FORM IS FOR THE 24 HOURS ENDING AT YOUR OBSERVATION TIME, NOT FOR THE CALENDAR DAY. ANY PRECIPITATION WHICH FALLS OR EXTREME TEMPERATURE OCCURRING AFTER YOUR OBS TIME MUST BE REFLECTED IN THE NEXT DAYS READING. EXAMPLE: OBS TIME OF 5 PM: Day #1 MAX TEMP SINCE YESTERDAY AT 5 PM WAS 65°. THE TEMP CONTINUED TO RISE UNTIL IT REACHED 72° AT 7 PM. THEN A COLD FRONT MOVED THROUGH DROPPING TEMPERATURES OVER 30 DEGREES. THE HIGH FOR DAY #1 IS STILL 65. THE MAX TEMPERATURE FOR DAY #2 IS 72° EVEN THOUGH THE CALENDAR TEMPERATURE ONLY REACHED 42° IT IS A GOOD PRACTICE TO NOTE YOUR OBSERVATION TEMPERATURE IN YOUR RECORDS. THIS WILL HELP TO PREVENT CARRY OVER ERRORS. IT IS ACCEPTABLE TO NOTE EVENTS WHICH OCCUR ON THE CALENDAR DAY AFTER YOUR OBS TIME IN THE COMMENT FIELD. ACCURACY OF DATA IS OF UPMOST IMPORTANCE.

OBSERVER COMMENTS FOR NOVEMBER 2007

Gary Gallaher of Bear 2 SW, DE

13th - Stars visible through dense radiation ground fog after 10 PM.

24th - Heavy AM frost. Day was sunny with light winds.

Nate Mullins of LaVale

This was the third consecutive month with below average precipitation - a relatively dry fall.

6th - Strong winds, diminishing through the day.

11th - Fog, overcast, evening rain.

23rd - Mostly sunny, passing clouds.

Jeff Stoudt of Laurel 2 E

5th & 6th - Occasional light rain fell from late in the evening of the 5th to 0800 on the 6th.

15th - Periods of rain till dusk.

Al Kreinik of Parkton 5 SW

26th - Many small branches down during the storm.

Marty Sharrow of Owings Mills

5th - Frosty start, then partly cloudy and seasonal.

12th - Overcast, damp, and cool.

Joe Manfre of Baltimore 2SE

1st - Warm, breezy, turning cooler in the evening.

22nd - Warm, cloudy, very windy, a few sprinkles, becoming partly cloudy and colder in PM.

28th - Lots of sunshine but chilly.

Ralph Hartsock of Westminster 4 SSE

YTD precipitation 14.09" below last year's.

6th - Rain shower early, windy and colder.

22nd - Brief shower, windy and colder late in the day.

24th - Much colder, sunny and cold.

29th - Cloudy, AM shower, clearing PM.

Bobby Miller of Millers 4 NE

Fall 2007:

Avg max 67.8 (+3.4)

Avg min 46.6 (+0.7)

Avg temp 57.2 (+2.1)

Precip 7.27 (-3.92)

November's temperatures and precipitation both a little below normal - excellent harvesting conditions.

8th - AM Heavy frost, PM clouds and virga.

13th - Showers near sunrise then PM clearing.

26th - High winds late - many limbs down.

Ray Muller of Westminster City

14th - Dense fog, visibility 1/4 mile.

20th - Dense fog, visibility 1/8 mile.

24th - Heavy frost.

26th - Dense fog, visibility 1/16 mile.

Eric Glass of Emmitsburg 2 SE

17th - Cloudy, calm day.

22nd - Sunny, breezy, warm.

Rebecca Harvey of Eagle Rock

16th - 3" snow cover—max for the month.

Rich Giannola of JHU/APL

19th & 20th - Drizzle.

Rob Cohen of Potomac 4 N

21st - Record daily maximum temperature

22nd - Record daily maximum temperature. Gusty frontal passage ~ 2:30 PM.

Rich Giannola of Olney 1 S

8th - First freeze of the fall.

15th - Rain began before dawn, lasting until early afternoon. Clearing and becoming windy thereafter.

Stan Rossen of Glenmont 1 NNE

Autumn precipitation 7.67".

14th - Fog Morning visibility 1/2 mile.

Kevin Shaw of Gaithersburg 2 WNW

Finished 29 years of weather observing at my site.

November was normal in temperature and below normal in precipitation, about 53% of normal.

15th - Cloudy, mild, rainy, for AM. Partial clearing, cooler PM.

30th - Sunny, colder, breezy at times.

Joe Terry of Forest Glen

8th - First hard freeze of the season.

15th - AM cold front followed by rain, occasionally heavy, and falling temperatures after noon.

22nd - Strong mid-afternoon dry cold front accompanied by an impressive arc cloud. A 20° drop in temperature in 2 hours.

Brian Smith of Oxon Hill

11th - Heavy frost.

27th - Day maximum temperature 56°

Floyd Abell of Hollywood

15th - Rainy day—started 7 AM—breezy, fair evening.

22nd - Fair, then late day shower, gusty winds.

John Zyla of Ridge

8th - Scattered frost, first of the season.

Max Hutto of Smithsburg 1.5 SW

8th - Very cold AM, cloudy, cool.

15th - Overnight rain into late AM, windy.

Greg Keefer of Hagerstown 1 E

15th - Rain overnight and this morning was heavy at times ended around 11 AM.

18th - Cloudy chilly and misty today.

26th - Foggy with periods of rain overnight and all day. Showers and gusty winds late this evening.

Lance Shaffer of Sterling 4 N VA

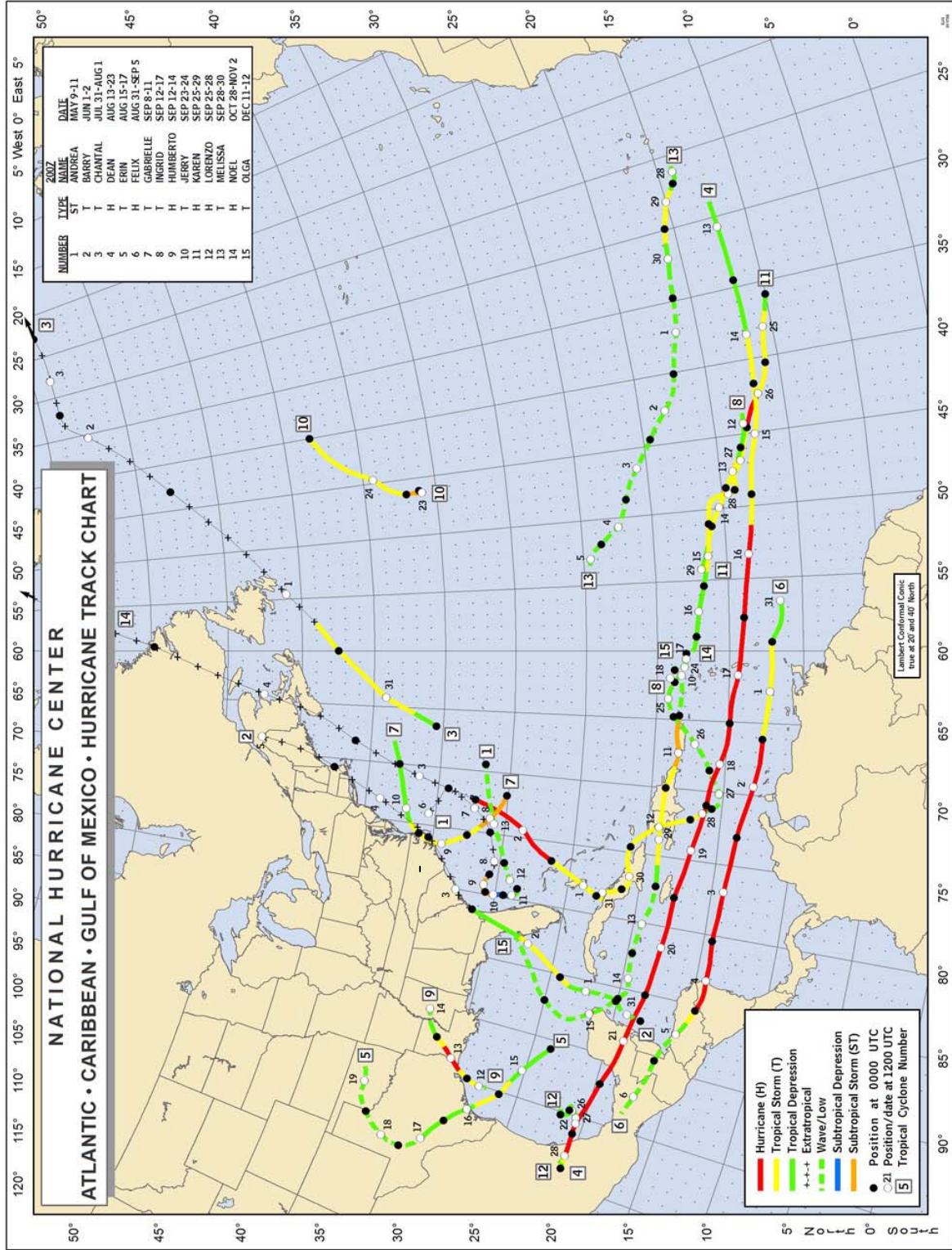
4th - Cloudy start, some sun.

20th - Overnight precipitation, AM fog

Dave Leshner of Davis 3 SE WV

16th & 17th - 2" snow cover, maximum for the month.

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.



2007 ATLANTIC BASIN HURRICANE TRACKING CHART

**ACON MD / DE / DC
NOVEMBER 2007 SUMMARY**

OBSERVER	STATION <i>COUNTY, STATE</i>	TEMPERATURE									PEAK WIND			PRECIPITATION					SNOWFALL				OBS TIME		
		AVG MAX	AVG MIN	MEAN	MAX	DAY	MIN	DAY	MAX >=90	MAX <=32	MIN <=32	GUST	DIR	DAY	TOTAL	MAX DAY	DATE	YEAR	DAYS >=.01"	DAYS >=1"	TOTAL	MAX DAY		DATE	SEA- SON
<i>New Castle, Delaware</i>																									
Gallaher, Gary	Bear 2 SW	53.4	34.2	43.8	71	22	19	24	0	0	13	41	NW	16	2.11	0.63	15	41.83	11	0	0.0	0.0	0.0	2400	
NWS Wilmington	New Castle Co. Apt.	54.2	36.5	45.4	72	22	23	24	0	0	8	40	W	22	1.69	0.37	15	36.99	10	0	0.0	0.0	0.0	2400	
U of DE DEOS	UofD AG Farm Newark, DE	53.3	35.2	44.3	72	22	22	24	0	0	10	28		22	2.11	0.59	19	37.99	12	0				2400	
U of D Townsend Farm	Townsend 4 W	53.0	35.4	44.2	71	21	23	24	0	0	9	36		22	1.71	0.43	19	<u>26.40</u>	14	0				2400	
<i>Sussex, Delaware</i>																									
NWS Georgetown	Sussex Co. Airport	56.6	37.0	46.8	72	1+	26	24	0	0	10	32	SW	15+	0.90	0.34	6	29.16	11	0				2400	
U of D Research & Ed Ctr	Georgetown	56.4	36.0	46.2	71	1+	22	24	0	0	12				1.15	0.31	6	<u>24.42</u>	12	0				2400	
U of D Warrington Farm	Harbeson 8 S	54.6	37.4	46.0	72	21+	27	7+	0	0	9	28		22	1.55	1.29	8	<u>18.66</u>	9	1				2400	
<i>Allegany, Maryland</i>																									
Latta, Greg	Frostburg	47.1	29.1	38.1	68	1	16	24+	0	1	23				2.10	0.56	15	37.13	10	0	0.8	0.7	16	0.7	0700
Mullins, Nate**	LaVale	48.7	35.3	42.0	70	21	23	24	0	0	9				1.84	0.46	12	30.55	9	0	0.0	0.0	0.0	2400	
<i>Anne Arundel, Maryland</i>																									
Hanson, Dan	Pasadena 2 N	55.6	36.5	46.1	75	22	22	24	0	0	10	33	W	22	1.26	0.58	15	28.45	11	0	0.0	0.0	0.0	2400	
Jug Bay Wetlands	Lothian	59.0	37.6	48.3	78	22	20	24	0	0	10				1.48	0.49	15	30.90	11	0	0.0	0.0	0.0	0900	
NWS Baltimore	BWI Airport	55.6	36.7	46.2	74	22	22	24	0	0	10	40	W	27	1.52	0.68	15	30.94	9	0	0.0	0.0	0.0	2400	
Stoudt, Jeff	Laurel 2 E	55.4	38.9	47.2	73	1+	26	24	0	0	4				1.45	0.66	15	31.30	9	0	0.0	0.0	0.0	2400	
<i>Baltimore, Maryland</i>																									
Kreinik, Al	Parkton 5 SW	53.0	34.4	43.7	74	22	19	24	0	0	10				2.30	0.78	15	31.94	10	0	0.0	0.0	0.0	2200	
Sharrow, Marty	Owings Mills 2 SE	51.1	35.2	43.2	70	22	22	24	0	0	11				1.27	0.51	15	24.69	8	0	0.0	0.0	0.0	2400	
<i>Baltimore City, Maryland</i>																									
Manfre, Joe	Baltimore 2 SE	56.3	42.0	49.2	75	22	31	24	0	0	1				1.49	0.60	15	29.21	11	0	0.0	0.0	0.0	1800	
Maryland Science Ctr	Baltimore Inner Harbor	55.6	42.0	48.8	75	22	31	24	0	0	1				1.17	0.60	15	28.24	10	0				2400	
<i>Carroll, Maryland</i>																									
Close Jr, Herb	Manchester 1 SW	52.3	35.3	43.8	72	21	22	24	0	0	12				2.53	0.82	15	34.66	14	0	T	T	9	T	2300
Hartsock, Ralph	Westminster 4 SSE	51.9	34.1	43.0	70	22	19	24	0	0	11	38		6	2.13	0.74	15	<u>33.87</u>	11	0	0.0	0.0	0.0	2000	
Klein, Greg	Westminster 5 SSE	50.3	34.6	42.5	68	22	22	24	0	0	11				2.16	0.80	15	33.55	11	0	0.0	0.0	0.0	2200	
Miller, Bobby	Millers 4 NE	51.1	34.4	42.8	71	21+	19	24	0	0	13	51	WSW	27	2.72	0.90	15	33.42	13	0	0.0	0.0	0.0	1800	
Muller, Ray	Westminster City	52.3	36.2	44.3	70	22	21	24	0	0	8	40	NW	27	2.54	0.88	15	32.67	10	0	0.0	0.0	0.0	1900	
<i>Charles, Maryland</i>																									
Brumback, Marty	Bryans Road 2 ESE	58.0	37.8	47.9	75	21+	25	24	0	0	6	33		6	M	M		<u>28.08</u>	0	0	0.0	0.0	0.0	2400	
<i>Frederick, Maryland</i>																									
Glass, Eric	Emmitsburg 2 SE	51.9	32.5	42.2	71	22	19	24	0	0	14				2.45	0.50	15		10	0	0.0	0.0	0.0	0700	
Lawrence, Bryon	Frederick 3 WNW	51.2	32.8	42.0	71	22	21	24	0	0	15				2.44	1.15	15	15.88	14	1	T	T	9	T	2300
<i>Garrett, Maryland</i>																									
Harvey, Rebecca	Eagle Rock	48.5	29.6	39.1	64	1	11	24	0	1	24				3.18	0.87	26	43.98	12	0	5.0	3.0	16	5.0	0800
<i>Howard, Maryland</i>																									
Giannola, Rich	Laurel JHU / APL	54.2	36.9	45.6	74	22	24	24	0	0	6	46	WNW	22	1.23	0.58	15	26.06	9	0	0.0	0.0	0.0	2400	

**ACON MD / DE / DC
NOVEMBER 2007 SUMMARY**

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		AVG MAX	AVG MIN	MEAN	MAX	DAY	MIN	DAY	MAX >=90	MAX <=32	MIN <=32	GUST	DIR	DAY	TOTAL	MAX DAY	DATE	YEAR	DAYS >=.01"	DAYS >=1"	TOTAL	MAX DAY		DATE	SEA- SON
<i>Montgomery, Maryland</i>																									
Cohen, Rob	Potomac 4 N	54.2	36.7	45.5	75	22	22	24	0	0	9				1.90	0.73	15	29.01	9	0	0.0	0.0	0.0	2100	
Giannola, Rich	Olney 1 S	54.5	36.4	45.5	74	22	23	24	0	0	9				1.54	0.59	15	29.87	8	0	0.0	0.0	0.0	2400	
Roth, David	Montgomery Village 1SW	54.1	37.4	45.8	73	22	23	24	0	0	7	21		22	1.75	0.57	15	25.88	8	0	0.0	0.0	0.0	2400	
Rossen, Stan	Glenmont 1 NNE	56.7	35.3	46.0	76	21+	21	24	0	0	10	22	SSE	26	1.45	0.69	15	30.22	8	0	0.0	0.0	0.0	2400	
Scafide, Tony	Bethesda	53.9	37.7	45.8	74	21	25	24	0	0	6	24		22	1.21	0.55	15	<u>22.79</u>	8	0				2400	
Shaw, Kevin	Gaithersburg 2 WNW	53.5	35.7	44.6	72	21	22	24	0	0	12				1.81	0.77	15	28.42	10	0	0.0	0.0	0.0	2400	
Terry, Joe	Forest Glen	57.0	36.6	46.8	77	21	23	24	0	0	8	35	WNW	22	1.73	0.89	15	31.50	8	0	0.0	0.0	0.0	2400	
Wash Gas Light	Rockville 1 NE																	<u>15.96</u>						2400	
<i>Prince Georges, Maryland</i>																									
Smith, Brian	Oxon Hill	56.6	40.0	48.3	75	22	28	24	0	0	3				1.68	1.02	15	33.32	8	1	0.0	0.0	0.0	2300	
<i>St. Marys, Maryland</i>																									
Abell, Floyd	Hollywood	58.0	39.7	48.9	75	21+	24	24	0	0	6	35		22	1.78	0.63	15	30.67	8	0	0.0	0.0	0.0	2400	
Zyla, John	Ridge	57.3	42.7	50.0	73	1+	31	24	0	0	1	26	NW+	5+	1.25	0.57	15	31.28	9	0	0.0	0.0	0.0	2400	
<i>Washington, Maryland</i>																									
Hutto, Max	Smithsburg 1.5 SW	52.4	33.5	43.0	72	21	18	24	0	0	14	31	SW	22	3.57	1.28	15	36.76	13	1	0.0	0.0	0.0	2400	
Keefer, Greg	Hagerstown 1 E	51.4	33.8	42.6	71	21+	20	24	0	0	13	48	NW	22	2.76	0.96	15	35.67	13	0	0.0	0.0	0.0	2400	
Vaughn, Jim	Smithsburg 2 NE	52.0	36.5	44.3	70	21+	22	24	0	0	9	50	SW	5	3.17	1.05	15	32.79	12	1	0.0	0.0	0.0	2400	
<i>Wicomico, Maryland</i>																									
NWS Salisbury	Wicomico Co. Apt	57.1	32.1	44.6	72	21+	15	24	0	0	15	39	NNW	22	0.89	0.40	15	30.43	6	0	0.0	0.0	0.0	2400	
<i>Arlington, Virginia</i>																									
NWS Washington Nationa	National Airport	57.7	41.8	49.8	77	22	30	24	0	0	1	51	WNW	22	1.46	0.80	15	29.65	8	0	0.0	0.0	0.0	2400	
<i>Loudon, Virginia</i>																									
NWS Washington Dulles	Dulles Airport	56.1	36.1	46.1	76	21	20	24	0	0	10	45	NW	22	2.47	0.98	27	25.03	9	0	0.0	0.0	0.0	2400	
Shaffer, Lance	Sterling 4 N	54.9	37.9	46.4	75	22	24	24	0	0	4				1.84	0.77	15	27.93	9	0	0.0	0.0	0.0	2400	
<i>Tucker, West Virginia</i>																									
Leshner, Dave	Davis 3 SE WV	43.6	28.1	35.9	63	1	11	24	0	7	24				3.13	0.61	6	60.65	18	0	6.4	2.1	16	6.4	0700
SECTION AVERAGE*		54.0	36.2	45.1											1.88		31.43				0.2				

NOTES:

M OR UNDERLINE = MISSING DATA + FIRST OF SEVERAL OCCURANCES

> = INCLUDED IN NEXT DAYS DATA

ITALIC = ESTIMATED DATA

*SECTIONAL AVERAGE DOES NOT INCLUDE DATA FROM WEST VIRGINIA.

**OBSERVER FOR LAVALE IS SCOTT LOHR. DATA COMPILED BY NATE MULLINS.

National Weather Service station data listed herein is preliminary and may be subject to change. The data has not been certified and cannot be used in legal actions.
Only reports certified by the National Climatic Data Center in Asheville, NC may be used for these purposes.
Accuracy of Data from ACON Observers not guaranteed.

GARY GALLAHER 5/02/08

**ACON MD / DE / DC
NOVEMBER 2007 DAILY TEMPERATURES**

STATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	AVG	OBS TIME	
BEAR 2 SW, DE GALLAHER	70 39	55 36	56 36	57 33	60 30	53 40	51 28	48 26	46 26	45 32	52 30	52 41	62 39	60 39	63 39	46 35	47 30	46 41	43 39	51 44	67 44	71 42	42 25	41 19	52 25	63 42	63 38	45 32	53 29	43 29	53.4 34.2	2400 EST	
WILMINGTON , DE NWS NEW CASTLE CO APT	71 43	57 38	59 41	58 39	60 36	55 41	53 33	47 28	46 30	47 33	52 30	51 43	64 41	58 40	64 41	48 36	48 33	49 40	44 40	51 43	64 42	72 44	44 28	42 23	53 28	64 43	64 41	45 32	54 36	43 30	54.2 36.5	2400 EST	
NEWARK AG FARM, DE U OF DE DEOS	70 43	58 37	56 39	56 37	61 32	54 39	51 33	47 28	47 28	45 34	51 33	52 41	62 41	55 39	61 39	46 33	47 30	45 40	42 38	51 41	68 44	72 41	42 26	54 22	62 27	62 41	45 38	54 32	54 31	43 28	53.3 35.2	2400 EST	
TOWNSEND 4 W, DE U of D DE Townsend Farm	69 41	54 37	56 41	55 36	60 32	52 39	50 33	46 27	46 27	44 36	50 29	52 41	59 41	64 38	64 40	46 35	47 33	49 40	43 40	52 40	71 43	69 41	40 30	50 23	63 27	63 42	44 38	53 31	42 34	29	53.0 35.4	2400 EST	
GEORGETOWN, DE NWS SUSSEX CO APT	72 49	56 48	57 39	59 37	62 32	55 36	53 33	47 30	50 30	46 39	52 35	53 41	62 42	71 38	65 42	48 37	50 31	57 38	53 44	57 41	72 46	72 46	46 31	42 26	51 30	69 47	68 35	45 30	58 28	51 29	56.6 37.0	2400 EST	
GEORGETOWN, DE UofD RESEARCH & ED CTR	71 47	56 44	57 40	59 35	63 32	55 38	52 31	48 28	49 29	47 37	52 32	53 41	62 40	70 38	65 41	47 36	50 32	57 38	54 43	56 41	71 44	71 45	45 27	42 22	52 29	68 47	67 35	45 30	58 27	48 28	56.4 36.0	2400 EST	
HARBESON 8 S, DE UofD WARRINGTON FARM	71 50	56 46	55 37	58 35	61 34	56 34	51 27	45 27	48 28	46 38	50 33	52 44	59 39	70 50	M	46 39	49 29	50 49	52 46	58 42	72 53	72 46	43 29	42 28	50 30	67 47	60 33	43 28	56 36	47 27	54.6 37.4	2400 EST	
FROSTBURG LATTA	68 34	54 28	54 28	55 28	49 30	56 32	41 32	38 22	40 22	38 30	40 28	37 28	42 37	59 42	60 37	40 28	33 24	36 26	38 32	36 32	56 36	66 50	63 26	32 16	35 16	47 24	51 37	45 24	45 23	49 21	47.1 29.1	0700 EST	
LAVALE MULLINS**	59 43	56 33	58 31	53 37	57 33	46 38	43 33	45 24	39 28	44 37	42 36	53 41	63 52	59 43	43 39	39 34	40 31	40 35	39 37	50 39	70 48	57 38	38 34	41 23	51 27	45 41	45 39	45 29	52 30	49 25	48.7 35.3	2400 EST	
PASADENA 2 N HANSON	74 46	58 45	61 43	55 37	61 41	55 33	47 28	46 29	47 36	53 32	53 42	60 42	63 41	62 41	49 33	50 30	52 39	44 40	58 44	73 43	75 43	46 26	43 22	52 30	65 44	65 39	45 30	57 31	47 30	55.6 36.5	2400 EST		
LOTHIAN JUG BAY	M M	72 35	58 46	65 36	63 34	65 45	58 31	54 26	51 27	47 40	52 27	56 43	53 45	64 41	71 50	51 36	48 30	55 38	60 41	49 43	64 43	78 56	77 31	48 20	54 32	52 49	65 51	M M	62 29	60 27	59.0 37.6	0900 EST	
BALTIMORE NWS BWI APT	73 48	57 41	62 44	59 39	61 34	55 41	52 37	47 28	44 29	48 37	52 32	54 42	61 43	65 43	63 40	46 30	50 39	52 39	44 40	59 44	73 43	74 41	44 28	42 22	53 30	64 44	64 41	45 33	58 30	48 27	55.6 36.7	2400 EST	
LAUREL 2 E STOUDT	73 48	58 41	61 45	57 40	61 38	53 41	51 38	48 31	46 33	48 38	52 34	52 43	59 46	64 45	61 43	48 36	53 34	52 40	59 40	64 43	61 46	58 43	73 42	73 30	44 26	52 34	63 45	63 43	47 36	57 36	48 32	55.4 38.9	2400 EST
PARKTON 5SW KREINIK	69 44	50 34	59 38	57 36	57 30	55 39	50 37	45 25	42 25	43 38	51 30	54 41	65 43	57 38	62 38	44 33	46 28	44 34	40 33	58 40	72 42	74 42	44 28	41 19	54 26	51 40	58 34	45 31	57 36	47 30	53.0 34.4	2200 EST	
OWINGS MILLS 2SE SHARROW	66 47	54 37	57 40	54 39	57 33	52 35	48 35	43 28	43 29	48 35	51 32	59 39	57 44	57 42	43 31	59 37	57 41	48 36	53 31	65 36	70 43	40 42	37 27	50 22	54 28	58 40	41 37	53 31	44 31	44 31	51.1 35.2	2400 EST	
BALTIMORE 2SE MANFRE	74 55	59 46	63 47	59 47	63 44	55 43	54 42	48 37	48 41	48 40	54 42	56 45	63 49	60 48	48 42	52 37	53 35	45 41	60 41	64 45	75 48	45 42	44 35	44 31	52 37	64 46	65 45	46 36	60 37	48 36	56.3 42.0	1800 EST	
BALT INNER HARBOR MD SCIENCE CENTER	73 53	59 46	62 47	59 47	62 42	54 43	53 41	48 37	47 40	47 40	53 40	55 41	63 45	61 49	59 48	47 42	51 37	51 44	45 41	60 45	64 49	75 44	44 35	43 31	52 37	64 46	65 45	46 37	59 37	48 36	55.6 42.0	2400 EST	
MANCHESTER 1SW CLOSE	69 46	55 38	59 39	56 39	59 39	49 38	49 32	44 27	49 31	44 34	51 32	55 39	64 45	57 47	61 36	43 32	45 30	41 34	38 33	56 38	72 47	71 38	41 27	41 22	53 29	58 39	58 39	45 29	54 31	43 28	52.3 35.3	2300 EST	
WESTMINSTER 4 SSE HARTSOCK	67 44	53 33	56 38	55 36	56 31	51 37	49 25	45 26	44 34	44 29	45 39	60 43	57 40	59 34	42 34	48 29	48 34	39 34	56 37	69 44	70 46	69 46	56 28	51 19	56 25	58 39	41 38	53 30	50 29	50 28	51.9 34.1	2000 EST	
WESTMINSTER 5 SSE KLEIN	64 46	53 36	56 37	53 39	55 37	50 34	46 28	44 30	44 32	43 34	47 31	51 38	57 43	56 42	47 36	41 32	46 30	47 35	54 33	60 40	54 37	66 46	68 39	40 27	38 22	49 28	55 39	56 37	40 29	42 30	28	50.3 34.6	2200 EST
MILLERS 4NE MILLER	65 47	54 32	57 37	54 39	57 31	51 40	48 38	42 24	39 26	42 33	48 29	52 38	62 43	53 39	60 38	41 35	44 29	41 37	37 32	54 36	71 44	71 46	46 30	39 19	51 27	49 38	58 39	43 29	54 30	49 27	51.1 34.4	1800 EST	
WESTMINSTER CITY MULLER	69 46	55 33	58 40	57 38	59 33	53 40	50 27	45 31	42 32	43 35	49 40	52 40	60 41	60 47	58 40	45 36	47 31	45 40	54 38	68 47	70 46	68 46	40 33	53 21	55 28	63 40	63 38	49 32	54 34	51 40	52.3 36.2	1900 EST	
BRYANS ROAD 2 ESE BRUMBACK	73 48	59 41	64 43	62 37	63 34	57 40	53 35	49 30	49 33	50 34	54 30	56 43	63 46	71 47	64 41	47 34	53 34	61 41	48 41	61 44	75 48	75 43	46 30	43 25	55 32	63 43	63 38	49 37	62 35	51 32	58.0 37.8	2400 EST	
EMMITSBURG 2 SE GLASS	65 31	63 33	53 33	61 38	56 32	59 32	50 39	49 23	43 23	40 34	43 25	47 25	51 42	62 39	59 46	49 38	44 29	46 33	41 35	39 35	55 39	71 45	70 33	41 19	40 21	53 24	56 41	50 30	42 27	58 31	51.9 32.5	0700 EST	

**ACON MD / DE / DC
NOVEMBER 2007 DAILY TEMPERATURES**

STATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	AVG	OBS TIME		
FREDERICK 3 WNW LAWRENCE	64 41	53 29	60 38	53 34	59 29	49 40	47 27	44 23	40 27	43 29	47 24	51 38	60 40	58 42	55 38	42 28	48 25	41 35	38 34	55 36	70 45	71 39	42 25	40 21	52 27	55 42	55 42	43 28	57 28	45 31	51.2 32.8	2300 EST		
EAGLE ROCK HARVEY	64 46	52 26	50 24	52 32	49 30	60 28	38 28	38 20	44 28	36 30	38 28	48 28	56 44	60 40	59 32	56 24	32 20	40 28	30 30	40 30	52 42	59 52	62 20	44 11	38 28	60 36	36 32	38 22	46 36	48 18	48.5 29.6	0800 EST		
LAUREL JHU / APL GIANNOLA	70 46	56 39	60 41	57 37	60 34	51 40	47 36	45 30	43 30	44 36	51 33	54 41	61 44	64 42	43 39	50 33	50 33	42 39	60 37	72 42	74 46	41 40	41 30	52 24	62 32	62 43	46 42	58 33	48 35	48 31	54.2 36.9	2400 EST		
POTOMAC 4N COHEN	70 43	59 38	60 42	58 36	62 32	52 40	50 38	46 27	43 30	45 39	50 28	52 42	59 44	62 42	58 40	44 35	50 30	54 39	44 38	57 42	73 46	75 45	40 30	52 22	58 31	61 45	45 38	57 35	46 34	46 30	54.2 36.7	2100 EST		
OLNEY 1 S GIANNOLA	69 47	58 38	62 42	58 40	61 34	52 40	48 35	46 29	42 32	45 34	51 31	51 41	59 44	61 43	60 38	44 32	51 31	52 40	43 37	58 40	71 47	> >	74 28	42 23	53 32	60 43	60 38	45 33	57 34	47 30	54.5 36.4	2400 EST		
MONTGOMERY VILLAGE ROTH 1SW	68 50	57 38	60 43	57 40	60 34	53 42	49 35	47 29	42 32	46 35	49 29	53 42	60 45	63 43	62 40	45 34	50 34	53 40	43 38	57 40	71 47	73 42	42 29	40 23	53 32	61 44	60 43	44 34	57 36	47 31	54.1 37.4	2400 EST		
GLENMONT 1NNE ROSSEN	72 40	60 35	63 42	59 36	64 33	55 38	52 33	48 27	44 30	47 32	53 28	54 43	61 43	64 41	61 36	46 30	54 29	56 38	44 39	62 43	76 45	76 42	46 27	42 21	57 31	63 45	63 39	48 34	61 33	51 27	56.7 35.3	2400 EST		
BETHESDA SCAFIDE	69 47	55 41	59 43	56 39	58 35	52 39	49 36	45 29	43 33	45 35	49 30	51 42	59 46	63 46	59 39	44 32	50 33	54 41	43 38	57 42	74 48	74 41	43 29	41 25	53 34	62 45	61 40	45 35	58 37	47 30	53.9 37.7	2400 EST		
GAITHERSBURG 2WNW SHAW	67 42	56 36	61 42	57 36	60 31	52 38	49 31	45 27	42 30	45 32	49 29	52 42	58 43	61 43	60 38	43 32	49 32	52 39	42 37	59 41	72 46	71 39	41 29	40 22	52 32	60 45	59 41	46 34	58 35	47 28	53.5 35.7	2400 EST		
FOREST GLEN TERRY	73 44	60 37	63 43	60 37	63 34	57 37	50 34	47 28	44 31	49 33	53 28	53 43	61 45	65 45	61 37	47 30	53 30	58 40	45 39	62 43	77 47	75 41	47 28	45 23	56 33	63 45	63 42	49 34	60 37	50 30	57.0 36.6	2400 EST		
ROCKVILLE 1NE WASH GAS LIGHT																																		2400 EST
OXON HILL SMITH	72 52	57 43	61 45	60 40	61 38	55 41	52 37	47 33	48 35	49 40	51 32	55 44	62 47	69 48	65 42	46 36	52 34	57 43	46 41	59 45	74 50	75 44	45 33	43 28	53 35	64 44	63 43	47 38	60 36	50 32	56.6 40.0	2300 EST		
HOLLYWOOD ABELL	73 56	58 49	62 48	62 38	63 44	58 37	53 33	49 30	51 32	50 42	54 31	55 44	62 45	72 46	65 43	47 35	53 32	61 40	49 43	64 44	75 47	75 47	47 33	44 24	53 35	65 44	64 36	46 36	60 32	51 36	58.0 39.7	2359 EST		
RIDGE ZYLA	73 55	57 50	62 47	63 46	64 45	57 42	53 38	49 35	52 42	48 40	52 38	52 45	66 51	72 64	62 49	56 44	63 41	54 35	49 42	64 44	71 46	73 56	48 33	43 31	49 41	65 46	61 42	45 36	60 36	48 36	57.3 42.7	2400 EST		
SMITHSBURG 1.5 SW HUTTO	62 38	56 28	60 32	55 34	60 29	51 42	46 27	44 22	41 29	43 29	47 24	55 41	63 39	64 37	64 40	43 34	47 31	43 36	41 36	56 39	72 50	71 40	40 28	41 18	54 24	57 42	56 42	42 30	47 37	45 28	52.4 33.5	2400 EST		
HAGERSTOWN 1E KEEFER	61 41	55 30	60 35	54 36	58 29	50 40	46 28	41 23	39 28	43 31	47 26	52 40	63 40	62 39	59 33	42 29	46 36	42 35	39 35	54 39	71 50	71 39	41 27	40 20	53 25	55 41	55 41	42 30	57 36	45 29	51.4 33.8	2400 EST		
SMITHSBURG 2 NE VAUGHN	60 44	54 36	58 35	53 40	58 33	51 41	45 32	42 25	40 37	43 32	46 27	54 42	64 48	64 49	63 39	41 35	46 32	43 36	40 36	57 38	70 51	70 39	39 30	39 22	52 30	57 42	56 39	56 38	56 37	44 29	52.0 36.5	2400 EST		
SALISBURY NWS WICOMICO CO APT	71 45	58 46	58 33	60 30	63 27	55 32	53 25	48 24	51 26	48 33	51 26	53 40	63 36	71 35	65 42	48 34	50 24	59 35	57 36	58 33	72 46	72 47	47 26	43 15	52 28	68 48	67 27	46 24	57 22	48 19	57.1 32.1	2400 EST		
WASH NATIONAL NWS ASOS	74 52	59 45	63 47	61 46	62 42	58 39	53 33	49 39	48 41	50 35	53 45	56 45	63 50	69 49	65 43	48 35	53 36	58 44	47 43	59 46	72 50	77 44	47 35	44 30	52 39	65 45	66 47	49 39	61 38	50 36	57.7 41.8	2400 EST		
WASH DULLES NWS ASOS	72 43	59 40	63 44	60 36	62 32	54 41	48 29	45 25	48 30	51 34	48 27	58 43	62 44	69 47	63 40	46 32	51 31	44 37	44 38	60 41	76 51	75 41	44 27	42 20	51 34	61 45	60 39	46 33	60 33	49 27	56.1 36.1	2400 EST		
STERLING 4 N SHAFFER	69 46	57 37	61 43	57 40	60 34	54 43	51 33	46 28	43 33	47 38	50 30	54 42	59 45	67 45	62 40	45 37	52 33	49 40	43 39	56 41	71 46	75 44	45 33	43 24	54 33	60 45	60 41	47 36	60 36	49 32	54.9 37.9	2400 EST		
DAVIS 3 SE WV LESHER	63 43	49 28	48 25	48 29	43 29	54 27	31 25	29 19	36 22	34 29	31 28	46 28	53 44	51 43	55 30	30 20	23 20	40 23	43 32	49 34	53 49	60 51	55 19	25 11	36 13	50 27	55 31	31 23	45 25	42 17	43.6 28.1	0700 EST		

**ACON MD / DE / DC
NOVEMBER 2007 DAILY PRECIPITATION**

STATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL	OBS TIME
BEAR 2 SW, DE GALLAHER					0.04	0.21			0.08	0.02		0.05	0.22		0.63			0.13	0.50	0.03						0.20					2.11	2400
WILMINGTON, DE NWS NEW CASTLE CO APT					0.04	0.14			T	0.01		0.10	0.19		0.37			0.20	0.36	0.03		T				0.25	T				1.69	2400
NEWARK AG FARM, DE U OF DE DEOS					0.02	0.17			0.06	0.02		0.11	0.22	0.01	0.43			0.19	0.59	0.05						0.24					2.11	2400
TOWNSEND 4 W, DE U of D DE Townsend Farm					0.06	0.20			0.07	0.01		0.01	0.33	0.01	0.34			0.02	0.43	0.01		0.04				0.17	0.01				1.71	2400
GEORGETOWN, DE NWS SUSSEX CO APT			0.01			0.34			0.01	T		0.02	0.06		0.22			0.05	0.08			0.01				0.02	0.08				0.90	2400
GEORGETOWN, DE UofD RESEARCH & ED CTR			0.02			0.31				0.01		0.08	0.03	0.01	0.24			0.05	0.29			0.04				0.01	0.06				1.15	2400
HARBESON 8 S, DE UofD WARRINGTON FARM								1.29	0.01	0.02		0.01	0.05			0.05			0.03					0.08		0.01					1.55	2400
FROSTBURG LATTA					0.32		T		T	0.14		0.39	0.16		0.56	0.09	T		T	0.02			0.09	T		0.04	0.29				2.10	0700
LAVALE MULLINS**					0.20				T	0.21	0.14	0.46	0.11	0.31	0.10		T			T		0.04				0.27			T		1.84	2400
PASADENA 2 N HANSON					0.12	0.12			0.07	0.01	0.02	0.14	0.11		0.58				0.03			0.01				0.05					1.26	2400
LOTHIAN JUG BAY						0.23				0.01		0.24	0.04	0.06	0.49	0.29	0.01						0.02			0.06	0.03				1.48	0900
BWI NWS ASOS					0.11	0.11			0.11	0.01	0.04	0.18	0.12	T	0.68			T	T	T		T			T	0.16	T				1.52	2400
LAUREL 2 E STOUDT					0.13	0.12			0.09	T	0.04	0.18	0.12	T	0.66			0.01	T	T		T			T	0.10	T				1.45	2400
PARKTON 5SW KREINK						0.10			0.03	0.11		0.19	0.08	T	0.78			T	0.37	0.07						0.52	0.05				2.30	2200
OWINGS MILLS 2SE SHARROW					T	0.08			0.08	T	T	0.16	0.12	T	0.51			0.04	0.08	T		T				0.20	T				1.27	2400
BALTIMORE 2SE MANFRE					0.05	0.06			0.24	0.05	0.04	0.12	0.13	T	0.60			0.01	0.05	T		T				0.14					1.49	1800
BALT INNER HARBOR MD SCIENCE CENTER					0.03	0.04			0.13		0.02	0.08	0.11		0.60			0.01	0.05							0.10					1.17	2400
MANCHESTER 1SW CLOSE				T	0.06	0.05			0.15	0.06	0.04	0.11	0.22	T	0.82			0.29	0.12	0.03		0.01				0.56	0.01		T		2.53	2300
WESTMINSTER 4 SSE HARTSOCK						0.10			0.02	0.17		0.23	0.23		0.74				0.26	0.05		0.05				0.26	0.02		T		2.13	2000
WESTMINSTER 5 SSE KLEIN						0.10			0.16	0.04		0.20	0.22		0.80			0.28		0.04		0.04				0.25	0.03				2.16	2200
MILLERS 4NE MILLER						0.09			0.04	0.14		0.16	0.17	0.03	0.90			0.01	0.41	0.05		0.01				0.64	0.07		T		2.72	1800
WESTMINSTER CITY MULLER						0.11			0.08	0.05		0.18	0.25	T	0.88			T	0.39	0.04						0.48	0.08				2.54	1900
BRYANS ROAD 2 ESE BRUMBACK																															M	2400
EMMITSBURG 2 SE GLASS						0.09				0.22		0.23		0.11	0.50	0.34			0.14	0.05						0.36	0.41				2.45	0700
																															0.0	EST

ACON MD / DE / DC
NOVEMBER 2007 DAILY PRECIPITATION

STATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL	OBS TIME	
FREDERICK 3 WNW LAWRENCE					0.02	0.04			0.17 T	0.01	0.24	0.18	0.12	0.01	1.15			0.08		0.02		0.01				0.38	0.01				2.44 T	2300 EST	
EAGLE ROCK HARVEY						0.37 T	T	T	T	0.17 1.0	0.01	0.27	0.25	T	0.75 T	0.35 3.0		T		0.03	0.01		0.05 0.5	0.05 0.5		0.87	T		T		3.18 5.0	0800 EST	
LAUREL JHU / APL GIANNOLA					0.05	0.03			0.10	0.01	0.08	0.14	0.12		0.58				T	T						0.12					1.23 0.0	2400 EST	
POTOMAC 4N COHEN						0.22			0.15	0.02		0.36	0.16		0.73				T	0.02						0.23	0.01				1.90 0.0	2100 EST	
OLNEY 1 S GIANNOLA					>	0.13			0.10	0.01	>	0.32	0.13		0.59			T	T	0.01						0.25					1.54 0.0	2400 EST	
MONTGOMERY VILLAGE ROTH 1SW						0.13			0.19		0.10	0.29	0.19		0.57											0.26	0.02				1.75 0.0	2400 EST	
GLENMONT 1NNE ROSSEN					0.11	0.05			0.08	T	0.08	0.21	0.13		0.69			T		T		T				0.10	T		T		1.45 0.0	2400 EST	
BETHESDA SCAFIDE					0.02	0.06			0.10		0.08	0.23	0.10		0.55											0.07					1.21 -	2400 EST	
GAITHERSBURG 2WNW SHAW					0.03	0.09			0.14	T	0.13	0.22	0.20	T	0.77			T	T	0.02		0.02			T	0.19					1.81 0.0	2400 EST	
FOREST GLEN TERRY					0.08	0.13			0.10		0.09	0.22	0.12		0.89			T	T			T				0.10					1.73 0.0	2400 EST	
ROCKVILLE 1NE WASH GAS LIGHT																																	2400 EST
OXON HILL SMITH					0.07	0.10	T		0.08	T	0.01	0.23	0.09	T	1.02			T		T		T			T	0.08			T		1.68 0.0	2300 EST	
HOLLYWOOD ABELL						0.17			0.05	0.12		0.23	0.01		0.63				T			0.50				0.07					1.78 0.0	2359 EST	
RIDGE ZYLA						0.16			0.04	0.14		0.13	0.03		0.57							0.13				0.03	0.02				1.25 0.0	2400 EST	
SMITHSBURG 1.5 SW HUTTO					0.11	0.06			0.28	0.03	0.38	0.22	0.20		1.28			0.08		0.03	0.01					0.87	0.02				3.57 0.0	2400 EST	
HAGERSTOWN 1E KEEFER					0.07	0.08			0.21	0.05	0.25	0.21	0.16	T	0.96			0.05	T	0.01		0.02				0.66	0.03				2.76 0.0	2400 EST	
SMITHSBURG 2 NE VAUGHN					0.07	0.06			0.21		0.27	0.09	0.28	T	1.05			0.12		0.01			0.03			0.92	0.06				3.17 0.0	2400 EST	
SALISBURY NWS WICOMICO CO APT			T			0.29			T	0.04		0.03	0.01		0.40				T			0.12				T	T				0.89 0.0	2400 EST	
WASH NATIONAL NWS ASOS					0.05	0.07			0.07	T	0.04	0.24	0.08	T	0.80							T			T	0.11					1.46 0.0	2400 EST	
WASH DULLES NWS ASOS		T			0.06	0.05			0.12		0.01	0.24	0.10	T	0.73			T	T	T		T			T	0.18	0.98				2.47 0.0	2400 EST	
STERLING 4 N SHAFFER					0.06				0.18	T	>	0.46	0.17	0.01	0.77	T	T	0.01		0.02		T				0.16	T				1.84 0.0	2400 EST	
DAVIS 3 SE WV LESHER		0.04				0.61 T	0.02 0.3	0.04 0.6	0.03 0.2	0.29 1.9	T T	0.19	0.18	0.09	0.55 0.5	0.24 2.1	T T			0.02	0.05		0.11 0.3	0.04 0.5		0.19	0.42 T	0.02 T		T T	3.13 6.4	0700 EST	