

Monday January 1, 1990 0700 EST

University  
General Obs.

Temp.		Wind		Barom.		OCNL SW - AT OBS WS LOWER S-SE 2RBEGAN ~ 0600 LT (31ST) CHANGED TO R- ~ 1300 LT (31ST) R- ENDED ~ 1530 LT (31ST) INTERMITTENT SW AFTER 0800 LT (31ST)		
Max.	38 °F	Dir.	WNW	Temp.	74			
Min.	31 °F	Vel.	16 m.p.h.	Read.	28.57			
Set	31 °F	Char.	GUSTS TO 21	Corr.	28.44	0700	1300	1900
R. H.	75% Sun	24 hr. Mov.	155 mi	Sea L.	29.84	Clds.	Clds.	Clds.
Ppn.	0.37 in.	Prev. Dir.	W	3 hr. Tend.	+2.3 MB	Wx	Wx	Wx
Ppn.	T in.	Sol.	3 in.	Snow Depth		Vis.	Vis.	Vis.
				Observer	FJB	10 MI		

$$\bar{T} = 35^\circ$$

$$HDD = 30$$

$$\sum HDD = 30$$

$$\sum PENL =$$

$$\sum PENS = T$$

d = 22

TRAMOS 29

Tues. Jan 2, 1990

0700 EST

University Park, General Obs.

Temp.		Wind		Barom.		Temp.		0cni SW -- 1100LT - 1800LT	
Max.	33 °F	Dir.	SW	Temp.	76			SW - 1200-800 LT	
Min.	27 °F	Vel.	9 m.p.h.	Read.	29.12			Range: 30.25	
Set	27 °F	Char.	Gusts to 16	Corr.	28.98	0700	1300	1800	
R. H.	69 %	24 hr. Mov.	265.0 mi	Sea L.	30.42	Clds.	Clds.	Clds.	
Ppn.	T in.	Prev. Dir.	W	3 hr. Tend.	+0.7mb	Wx	Wx	Wx	
Ppn.	T in.	Snow Depth	3 in.	Observer	ESP	Wx	SCT	Wx	
						Vis.	7 mi	Vis.	

$t_{\text{ref}} : 20$   
 $T_d : 18$   
 $\bar{T} : 30$   
 $H_{00} : 35$   
 $\delta H_{00} : 65$   
 $\text{Epcn}(u) : .37$   
 $\text{Epcn}(s) : T$

Wed. Jan 3, 1990

0700 EST

Meteorology  
University Park, Pa.  
General Obs.

Temp.		Wind		Barom.		Virga S		
Max.	40 °F	Dir.	SW	Temp.	75	Thin lyr fog over golf course		
Min.	26 °F	Vel.	5 m.p.h.	Read.	29.10	Approx snow/liquid ratio on ground: 3 to 1		
Set	28 °F	Char.	Steady	Corr.	28.87	Rains 22.29 (10 = 0.0047)		
R. H.	58 %	24 hr. Mov.	108.2 mi	Sea L.	30.28	0700	1300	1900
Ppn.	0 in.	Prev. Dir.	SW	3 hr. Tend.	^ +0.0mb	Clds.	As	Clds.
Ppn.	0 in.	Snow Depth	3 in.	Observer	ESP	7/10	ST	
						Wx	BKN	Wx
						Vis.	15 mi	Vis.

$T_{\text{max}}$ : 32  
 $T_{\text{min}}$ : 27  
 $T_d$ : 17  
 $F$ : 33  
 $N_{\text{so}}$ : 22  
 $\Sigma H_{\text{so}}$ : 97  
 $\Sigma P_n(s)$ : .374  
 $\Sigma P_n(s)$ : 7

THUR. Jan 4, 1990

0700 EST

University  
General Obs.

Temp.		Wind		Barom.																									
Max.	47 °F	Dir.	WSW	Temp.	76°																								
Min.	28 °F	Vel.	6 m.p.h.	Read.	28.74																								
Set	42 °F	Char.	Steady	Corr.	28.60																								
R. H. %	53	24 hr. Mov.	92.1 mi.	Sea L.	29.97																								
Ppn.	0 in.	Prev. Dir.	SSW	3 hr. Tend.	-2																								
Ppn.	0 in.	Snow Depth	1 in.	Observer	JCK																								
						<i>Lowest 46, 41</i> <table border="1"> <tr> <td>0700</td> <td>1300</td> <td>1900</td> </tr> <tr> <td>Clds.</td> <td>Clds.</td> <td>Clds.</td> </tr> <tr> <td>10/100</td> <td></td> <td></td> </tr> <tr> <td>Wx</td> <td>Wx</td> <td>Wx</td> </tr> <tr> <td>overcast</td> <td></td> <td></td> </tr> <tr> <td>Vis.</td> <td>Vis.</td> <td>Vis.</td> </tr> <tr> <td>25 mi</td> <td></td> <td></td> </tr> </table>			0700	1300	1900	Clds.	Clds.	Clds.	10/100			Wx	Wx	Wx	overcast			Vis.	Vis.	Vis.	25 mi		
0700	1300	1900																											
Clds.	Clds.	Clds.																											
10/100																													
Wx	Wx	Wx																											
overcast																													
Vis.	Vis.	Vis.																											
25 mi																													

$T_{\text{roof}} = 43$      $\bar{T} = 38$      $\sum P_{\text{roof}} = .37''$   
 $T_d = \text{---}$      $N_{\text{DB}} = 27$      $\sum P_{\text{ins}} = T$   
 $T_w = \text{---}$      $\sum N_{\text{DB}} = 124$      $\sum P_{\text{ins}} = T$   
 $T_{\text{ins}} = 41$      $\sum \text{DB} = 0$   
 $T_{\text{down}} = 25$      $\sum \text{DB} = 0$



Fri. Jan 5 1990

0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind		Barom.		General Obs.			
Max.	50 °F	Dir.	NNW	Temp.	76°	• L- and R- alt + on draught much of yesterday (4th) FROM ~ 700 LT. TO ~ 2030 LT. • HEARISE R FROM ~ 1730 TO 1800 LT.  Ramos: 49, 32			
Min.	33 °F	Vel.	6 m.p.h.	Read.	28.87				
Set	33 °F	Char.	STEADY	Corr.	28.73				
R. H.	44% 58 %	24 hr. Mov.	190 mi.	Sea L.	30.14	Clds.	0700	1300	1900
Ppn.	Liq. .08 in.	Prev. Dir.	WSW	3 hr. Tend.	+2 1/2 /	Clds.	10 / Steady		
Ppn.	Sol. 0 in.	Snow Depth	T in.	Observer	JCK	Wx	• OVC • STEADY	Wx	Wx
						Vis.	25 mi.	Vis.	Vis.

$$T_{\text{roof runs}} = 32 \quad \bar{T} = 42 \quad \Sigma f_{\text{run}_2} = .45''$$

$$T_w = \text{---} \quad \text{HDD} = 23 \quad \Sigma f_{\text{run}_3} = T$$

$$T_L = \text{---} \quad \Sigma \text{add} = 147$$

$$\text{CDD} = 0$$

$$T_{\text{add}} = 33 \quad \Sigma \text{add} = 0$$

$$T_{\text{down}} = 20$$

Sat. Jan 6, 1990

0700 EST

Meteorological Observatory  
University Park, Pa.

General Obs.

Temp.		Wind	Barom.	Snow cover in patches Above ovhd Lt Fog All quads  Remar: 40, 29			
Max.	41 °F	Dir.	Temp.				76
Min.	29 °F	Vel.	Read.				28.78
Set	31 °F	Char.	Corr.				28.64
R. H.	82 %	24 hr. Mov.	Sea L.	Clds.	0700	1300	1900
Ppn.	0 in.	Prev. Dir.	3 hr. Tend.	Wx			
Ppn.	0 in.	Snow Depth	Observer	Vis.			

Snow cover in patches  
Above ovhd  
Lt Fog All quads

Remar: 40, 29

0700	1300	1900
------	------	------

Clds.	Fog	Clds.	Clds.
40	AC		

Wx	Wx	Wx
Fog		

Vis.	Vis.	Vis.
2 mi		

Observer  
ESP

Snow Depth  
T in.

Ppn. Sol.  
0 in.

Ppn. Liq.  
0 in.

R. H. %  
82

Set °F  
31

Min. °F  
29

Max. °F  
41

mean: 31

$T_{\text{ref}}: 29$

$\bar{T}_a: 26$

$\bar{T}_i: 25$

$H_{\text{tot}}: 30$

$\Sigma(H_{\text{tot}}): 177$

$E_{\text{pc}(c)}: .45^{\circ}$

$E_{\text{pc}(s)}: 7$

Sun. Jan. 7, 1990

0700 EST

Meteorology  
University Park, Pa.

General Obs.

Temp.		Wind		Barom.		vry lgt fog all quads					
Max.	40 °F	Dir.	—	Temp.	77						
Min.	24 °F	Vel.	Calm m.p.h.	Read.	28.93						
Set	24 °F	Char.	Calm	Corr.	28.79						
R. H.	72 %	24 hr. Mov.	129.9 mi	Sea L.	30.22	Rains: 38.25					
Ppn.	0 in.	Prev. Dir.	W	3 hr. Tend.	-0.006	0700	1300	1900			
Ppn.	0 in.	Snow Depth	0 in.	Observer	ESP	Clds.	Clds.	Clds.			
						0/10					
						Wx	Wx	Wx			
						CLR (fog)	Vis.	Vis.			
						5 mi					

$T_{wet}: 25$

$T_d: 20$

$\bar{T}: 22$

$H_{eq}: 33$

$E_{H_{eq}}: 210$

$\epsilon_{R_n(L)}: .45^*$

$\epsilon_{R_n(S)}: T$

Mon. JAN 8, 1990

0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	45 °F	Dir. SSE	Temp. 76	EDGE of CIRRU) DECK JUST SOUTH of ZENITH  MIN. T OCCURED ~ 0800 LT, 7M		
Min.	22 °F	Vel. 2 m.p.h.	Read. 28.64			
Set	28 °F	Char. light	Corr. 28.50			
R. H.	69 %	24 hr. Mov. 94.7 mi.	Sea L. 29.92	0700	1300	1900
Ppn.	Liq. 0 in.	Prev. Dir. SW	3 hr. Tend. -.75 mb	Clds. 4/10	Clds.	Clds.
Ppn.	Sol. 0 in.	Snow Depth 0 in.	Observer JHM	Wx FLY CLDY	Wx	Wx
				Vis. 15 mi.	Vis.	Vis.

$$T_{\text{unv}} = 29 \quad T_{\text{d unv}} = 20$$

$$T_{\text{rams}} = 29$$

$$\bar{T} = 34$$

$$DD = 31$$

$$\Sigma DD = 241$$

$$\Sigma PCN(L) = .45''$$

$$\Sigma PCN(S) = T$$



Tue 9 Jan 1980 0700 EST

Meteorological Observatory  
University Park, Pa.  
General Obs.

Temp.		Wind		Barom.		General Obs.		
Max.	37 °F	Dir.	WSW	Temp.	76			
Min.	27 °F	Vel.	4 m.p.h.	Read.	28.66			
Set	33 °F	Char.	light	Corr.	28.52	Ramos 37128		
R. H.	66 %	24 hr. Mov.	35.9	Sea L.	29.91	0700	1300	1900
Ppn.	0	Prev. Dir.	SW	3 hr. Tend.	+2mb /	Clds.	Clds.	Clds.
						710		
						Wx	Wx	Wx
						BKN		
Ppn.	0 in.	Snow Depth	0 in.	Observer	CAS	Vis.	Vis.	Vis.
						10mi		

$$T_{\text{unv}} = 34$$

$$T_{\text{dew}} = 24$$

$$T_{\text{RAMES}} = 35$$

$$\bar{T} = 32$$

$$HDO = 33$$

$$\sum HDO = 274$$

$$\sum PCN(1) = .415''$$

$$\sum PCN(2) = T$$

WED. JAN 10, 1990

0700 EST

Meteorological Observatory  
University Park, Pa.  
General Obs.

Temp.		Wind		Barom.	General Obs.		
Max.	49 °F	Dir.	WSW	Temp.			
				77			
Min.	32 °F	Vel.	12 m.p.h.	Read.			
				28.34			
Set	37 °F	Char.	GUSTS TO 18 MPH	Corr.			
				28.20			
R. H.	76 %	24 hr. Mov.	113.5 mi	Sea L.	0700	1300	1900
				29.57	Clds.	Clds.	Clds.
					10/10 ✓		
Ppn.	Liq. .01 in.	Prev. Dir.	S	3 hr. Tend.	Wx	Wx	Wx
				+0.5mb/	L-		
Ppn.	Sol. 0 in.	Snow Depth	0 in.	Observer	Vis.	Vis.	Vis.
				JHM	15 mi.		

RAMA AVENT LO = 33 @ 09Z

$$T_{UNV} = 37 \quad T_{dUNV} = 30$$

$$T_{TRANS} = 37$$

$$\bar{T} = 41$$

$$DD = 24$$

$$\Sigma DD = 298$$

$$\Sigma PCN(L) = .46''$$

$$\Sigma PCN(S) = T$$

Thurs. Jan 11 1990

0700 EST

Meteorology  
University Park, Pa.

General Obs.

Temp.		Wind		Barom.		• L - ~ 1000 LT - 1200 LT • 0000 LT S - after 1200 LT • SW + ~ 1500 LT - 1600 LT OFF + ON		
Max.	38 °F	Dir.	SSW	Temp.	78°			
Min.	32 °F	Vel.	8-18 m.p.h.	Read.	28.44	• Range: 37, 31		
Set	33 °F	Char.	variable	Corr.	28.30			
R. H. mov	72 %	24 hr. Mov.	254 mi.	Sea L.	29.69	0700	1300	1900
Ppn.	.01 in.	Prev. Dir.	W	3 hr. Tend.	-3 h	Clds.	Clds.	Clds.
Ppn.	T in.	Snow Depth	0 in.	Observer	JLK	Wx	Wx	Wx
						Vis.	Vis.	Vis.
						15 mi.		

$$T_{\text{trans}} = 31 \quad \bar{T} = 35 \quad \sum PCN_L = .47''$$

$$T_w = \text{---} \quad HDB = 30 \quad \sum PCN_s = T$$

$$T_d = \text{---} \quad \sum HDB = 328$$

$$T_{uv} = 32 \quad CDD = 0$$

$$T_{uw} = 24 \quad \sum CDD = 0$$

Friday, January 12, 1990

0700 EST

Meteorological Observatory  
University Park, Pa.  
General Obs.

Temp.		Wind		Barom.		Remarks		
Max.	48 °F	Dir.	SW	Temp.	76°	• RW - 1550-1610 LT		
Min.	29 °F	Vel.	14 m.p.h.	Read.	28.26	• FROPA / WIND SHFT 1655 LT		
Set	30 °F	Char.	gusty	Corr.	28.13	• MAX WIND GUST: 62mph		
R. H. UAV	81 %	24 hr. Mov.	245.7	Sea L.	29:39	• SNOW BEGAN ~ 0330 LT		
Ppn. Liq.	0.01 in.	Prev. Dir.	SW	3 hr. Tend.	+0.5	• DAMOS: 45, 27		
Ppn. Sol.	0.5 in.	Snow Depth	1 in.	Observer	MSS	0700	1300	1900
						Clds.	Clds.	Clds.
						Wx	Wx	Wx
						Vis.	Vis.	Vis.
						1 mile		

$$T_{\text{ref ramos}} = 27^{\circ}\text{F} \quad \bar{T} = 39$$

$$T_{\text{unv}} = 29^{\circ}\text{F}$$

$$T_{\text{dunv}} = 24^{\circ}\text{F}$$

$$\text{HDD} = 26$$

$$\Sigma \text{HDD} = 354$$

$$\Sigma \text{PCN}_L = 0.48''$$

$$\Sigma \text{PCN}_S = 0.5''$$



SAT. JAN 13 1990

0700 EST

Meteorological Observatory  
University Park, Pa.  
General Obs.

Temp.		Wind		Barom.		• SW 0745-0815 LT then S- until 0900 LT • SW - 1545-1600 LT • SW - 1830-1940 LT • SW 1940-2010 LT (several SW) • S - AFTER 2010 LT • RANGE 28, 19 0700 1300 1900		
Max.	30 °F	Dir.	W	Temp.	75'	• Same DRIFTING • FRT SW - THREE DAY		
Min.	21 °F	Vel.	4-14 m.p.h.	Read.	28.73			
Set	22 °F	Char.	Variable	Corr.	28.60			
R. H. %	59 %	24 hr. Mov.	253 mi.	Sea L.	30.04	Clds.	Clds.	Clds.
Ppn.	.04 in.	Prev. Dir.	W	3 hr. Tend.	+4	Wx	Wx	Wx
Ppn.	1.2 in.	Snow Depth	1 in.	Observer	JCK	Wx	Vis.	Vis.
						10/10 STARS • S- • SW • S-SW Vis. 7 mi.		

$$\begin{array}{lll}
 T_{\text{Root Runes}} = 20 & \bar{T} = 26 & \Sigma P_{\text{on}_2} = .52'' \\
 T_W = \text{---} & \text{HDD} = 29(39) & \Sigma P_{\text{on}_3} = 1.7'' \\
 T_d = \text{---} & \Sigma \text{HDD} = 393 & \\
 & \text{CDD} = 0 & \\
 T_{\text{HNV}} = 22 & \Sigma \text{CDD} = 0 & \\
 T_{\text{LNV}} = 10 & & 
 \end{array}$$

SUN. Jan 14, 1990

0700 EST

Meteorological Observatory,  
University Park, Pa.

General Obs.

Temp.		Wind		Barom.		S- 0700-0745 LT		
Max.	27 °F	Dir.	W	Temp.	76	SW- 0815-0830 LT		
Min.	20 °F	Vel.	6 m.p.h.	Read.	29.13	Ocal SW-- 0830-1200 LT		
Set	24 °F	Char.	Steady	Corr.	28.99	The sp's have Rained: 24/19		
R. H.	60 %	24 hr. Mov.	124.1 mi	Sea L.	30.44	Clds.	0700	1300
Ppn.	T in.	Prev. Dir.	W	3 hr. Tend.	✓ +10 mb	Clds.		1900
Ppn.	T in.	Snow Depth	1 in.	Observer	ESP	Wx	OVC	Wx
						Vis.	7 mi	Vis.

Troof : 25

Tuet : 22

Td : 13

$\bar{T}$  : 24

H<sub>00</sub> : 41

$\Sigma H_{00}$  : 434

$\Sigma A_n(c)$  :  $-52^\circ$

$\Sigma A_n(s)$  :  $1.7^\circ$

Monday, January 15, 1990

0700 EST

Meteorological Observatory  
University Park, Pa.

General Obs.

Temp.		Wind	Barom.	General Obs.		
Max.	37 °F	Dir. WSW	Temp. 76 °F	• Snow Overcast		
Min.	23 °F	Vel. 3 m.p.h.	Read. 28.98"	• S- ended ~ 1145Z		
Set	33 °F	Char. steady	Corr. 28.84"	• Remains overcast low: 30°F @ 0300LT		
R. H.	92 %	24 hr. Mov. 75.6 mi	Sea L. 30.13"	0700 Clds. 10/10	1300 Clds.	1900 Clds.
Ppn. Liq.	0.06 in.	Prev. Dir. SSW	3 hr. Tend. 0 -	Wx QVC	Wx	Wx
Ppn. Sol.	0.6 in.	Snow Depth 1 in.	Observer MSS	Vis. 4 miles	Vis.	Vis.

$$T_{\text{trans}} = 32^{\circ}\text{F}$$

$$\bar{T} = 30^{\circ}\text{F}$$

$$T_{\text{unv}} = 31^{\circ}\text{F}$$

$$T_{\text{dew}} = 29^{\circ}\text{F}$$

$$\text{HDD} = 35$$

$$\Sigma \text{HDD} = 469$$

$$\Sigma \text{PCN}_{\text{liquid}} = 0.58''$$

$$\Sigma \text{PCN}_{\text{solid}} = 2.3''$$

TUESDAY, JANUARY 16, 1990

0700 EST

Meteor. University Park, -  
General Obs.

Temp.		Wind	Barom.	• min at 12Z yesterday • temperatures rose all night		
Max.	47 °F	Dir. SW	Temp. 75°F			
Min.	33 °F	Vel. 5 m.p.h.	Read. 29.09"			
Set	47 °F	Char. steady	Corr. 28.95"	0700	1300	1900
R. H.	74 %	24 hr. Mov. N/A	Sea L. 30.26 "	Clds. 10/10	Clds.	Clds.
Ppn.	0 in.	Prev. Dir. SW	3 hr. Tend. 1mb ✓	Wx - OVC - light fog	Wx	Wx
Ppn.	0 in.	Snow Depth 0 in.	Observer MSS	Vis. 5 miles	Vis.	Vis.

$$\sum PCN(\text{in}) = 2.3''$$

$$\sum PCN(\text{out}) = 0.58''$$

$$\sum HD = 494$$

$$HD = 25$$

$$\underline{T} = 40^\circ F$$

$$T_{\text{in}} = 46^\circ F$$



Wednesday, January 17, 1990

0700 EST

Meteorological Observatory  
University Park, Pa.

General Obs.

Temp.		Wind		Barom.		<ul style="list-style-type: none"> <li>• Min occurred at time of ob.</li> <li>• Record High</li> <li>• stratus decks to NW &amp; SE</li> <li>• Record max min tied</li> </ul>					
Max.	59* °F	Dir.	SW	Temp.	76°F						
Min.	42* °F	Vel.	2 m.p.h.	Read.	29.08"						
Set	42 °F	Char.	light	Corr.	28.94"						
R. H.	79 %	24 hr. Mov.	73.9 mi.	Sea L.	30.24"	0700	1300	1900			
Ppn.	0 in.	Prev. Dir.	SSW	3 hr. Tend.	0-	Clds.	Clds.	Clds.			
Ppn.	0 in.	Snow Depth	0 in.	Observer	MSS	Wx	Wx	Wx			
						light fog					
						Vis.	Vis.	Vis.			
						4 miles					

$$T_{\text{rains}} = 46^{\circ}\text{F}$$

$$\bar{T} = 51^{\circ}\text{F}$$

$$\text{HDD} = 14$$

$$\Sigma \text{HDD} = 508$$

$$\Sigma \text{PCN}_{\text{liq}} = 0.58''$$

$$\Sigma \text{PCN}_{\text{sol}} = 2.3''$$

Tues. Jan 18 1980

0700 EST

Meteorological University Park, Pa.  
General Obs.

Temp.		Wind		Barom.		* Barom: 60" in 1929 ** Barom: max min 40" in 1951 • RB - 1900 LT + large wind off + on through night • Lower: 61, 44 out - 50's					
Max. *	63 °F	Dir.	WSW	Temp.	80°						
Min. **	41 °F	Vel.	8-14 m.p.h.	Read.	28.69						
Set	58 °F	Char.	Variable	Corr.	28.54						
R. H.	72 %	24 hr. Mov.	182 mi.	Sea L.	29.86	Clds.	0700	1300	1900		
Ppn. Liq.	.07 in.	Prev. Dir.	SSW	3 hr. Tend.	+1 ✓	Clds.	10/Stratus				
Ppn. Sol.	0 in.	Snow Depth	0 in.	Observer	JK	Wx	• overcast	Wx	Wx		
						Vis.	25 mi.	Vis.	Vis.		

$$T_{ref} = 59$$

$$T_w = 54$$

$$T_d = 50$$

$$\bar{T} = 52$$

$$MOD = 13$$

$$\sum_{MOD} = 521$$

$$e_{DD} = 0$$

$$\sum_{e_{DD}} = 0$$

$$\sum PCN_L = .65''$$

$$\sum PCN_g = 2.3''$$

Fri

Jan. 19, 1990

0700 EST

Meteorological Observ. Station,  
University Park, Pa.

General Obs.

Temp.		Wind		Barom.		Hi occurred: ~ 0300 LT 1 degree shy of record H: F&W & 0700-0800, 18th Low Partials overnight Ramos: 58.22			
Max.	60 °F	Dir.	NW	Temp.	78				
Min.	28 °F	Vel.	7 m.p.h.	Read.	29.19				
Set	28 °F	Char.	Steady	Corr.	29.05				
R. H.	53 %	24 hr. Mov.	236.0 mi	Sea L.	30.49	Clds.	0700	1300	1900
Ppn.	.01 in.	Prev. Dir.	W	3 hr. Tend.	+2.2 mb	Clds.	5/10 Ci SC	Clds.	
Ppn.	T in.	Snow Depth	0 in.	Observer	ESP	Wx	BKN	Wx	Wx
						Vis.	10 mi	Vis.	Vis.

$T_{roof}$ : 20

$T_{surf}$ : 23

$T_a$ : 15

$\bar{T}$ : 44

$H_{so}$ : 24

$E_{H_{so}}$ : 542

$E_{pcn}(w)$ : .66"

$E_{pcn}(s)$ : 2.3"



$T_{\text{est}}: 27$

$T_{\text{est}}: 26.5$

$T_d: 26$

$\bar{Y}: 31$

$H_{00}: 34$

$\Sigma H_{00}: 576$

$\Sigma \text{PCA}(i): .78^4$

$\Sigma \text{PCA}(s): 3.6$



Sun. Jan 21, 1990

0700 EST

General Obs.

Temp.		Wind	Barom.	S-SW-E 0830 LT		
Max.	34 °F	Dir.	Temp.	IP-	0730 - 1000 LT	
		-	78	2R-	0800 - 1430 LT (local 2R)	
Min.	27 °F	Vel.	Read.	L-	1430 - 1730 LT	
		calm	28.52	R-	1445 - 1600 LT (local R)	
		m.p.h.		ZL-	1730 - 1845 LT	(over)
Set	33 °F	Char.	Corr.	0700	1300	1900
		newly calm	28.38	Clds.		Clds.
		(local E)		10/10		
R. H.	100 %	24 hr. Mov.	Sea L.	Wx	Wx	Wx
		26.0 mi	29.76	R-L-F		
Ppn.	Liq.	Prev. Dir.	3 hr. Tend.	Vis.	Vis.	Vis.
	.83 in.	SSE	m-0.0mb			
Ppn.	Sol.	Snow Depth	Observer			
	.3 in.	T in.	ESP			
				1 mi		

T<sub>net</sub>: 33

T<sub>net</sub>: 33

T<sub>d</sub>: 33

J: 31

H<sub>00</sub>: 34

Σ H<sub>00</sub>: 61 0

Σ PCN (L): 1.41

Σ PCN (S): 3.9

TZRW - 1945-1900 LT  
(local (TRIC))

ZR - 1900-2100 LT

R - 2000-0700 LT  
(local R, local L-)

NO over 10

cig rgl

Hust rainfall since Nov 16,  
1989.

Mon., JAN. 22, 1990

0700 EST

Meteorological Observatory  
University Park, Pa.

General Obs.

Temp.		Wind		Barom.		General Obs.		
Max.	42 °F	Dir.	SW	Temp.	78 °F	• brief SW - 1500 LT		
Min.	33 °F	Vel.	18 m.p.h.	Read.	28.75"	• IP - SW - 2130 LT		
Set	34 °F	Char.	bccnt. gusty	Corr.	28.61"	• small BINOVC to SE		
R. H.	72 %	24 hr. Mov.	198.0 mi	Sea L.	29.89"	0700	1300	1900
Ppn.	0.01 in.	Prev. Dir.	WSW	3 hr. Tend.	+0.5 mb T	Clds.	Clds.	Clds.
Ppn.	T in.	Snow Depth	0 in.	Observer	MSS	Wx	Wx	Wx
						Vis.	Vis.	Vis.
						7 mi.		

$$T_{roof} = 33^{\circ}\text{F}$$

$$\bar{T} = 38^{\circ}\text{F}$$

$$T_{down} = 26^{\circ}\text{F}$$

$$\text{HDD} = 27$$

$$\Sigma \text{HDD} = 637$$

$$\Sigma \text{PEN}_e = 1.42''$$

$$\Sigma \text{PEN}_s = 3.9''$$

TUESDAY, JANUARY 23, 1990

0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	40 °F	Dir. E	Temp. 77 °F	• SW-L - 1530-1600 LT • SW-RW - 1800-1930 LT		
Min.	31 °F	Vel. 5 m.p.h.	Read. 28.90 "			
Set	31 °F	Char. light	Corr. 28.76 "	• low occurred at time of observation		
				0700	1300	1900
R. H.	69 %	24 hr. Mov. 174.8 mi	Sea L. 30.05 "	Clds. 1/10	Clds.	Clds.
Ppn. Liq.	0.02 in.	Prev. Dir. WSW	3 hr. Tend. +3.0 mb /	Wx Scattered stratus	Wx	Wx
Ppn. Sol.	T in.	Snow Depth 0 in.	Observer MSS	Vis. 8 miles	Vis.	Vis.

$$T_{\text{max}} = 30^{\circ}\text{F}$$

$$\text{HDD} = 30$$

$$\bar{T} = 35^{\circ}\text{F}$$

$$\Sigma \text{HDD} = 667$$

$$T_{\text{min}} = 21^{\circ}\text{F}$$

$$\Sigma \text{PCN}_e = 1.44''$$

$$\Sigma \text{PCN}_s = 3.9''$$

Wednesday, Jan. 24, 1990

0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	45 °F	Dir. WSW	Temp. 78° F	• rain started ~ 2100LT • overnt. low ocrd @ 0000LT (RAMOS = 88%)		
Min.	30 °F	Vel. 8 m.p.h.	Read. 28.62"			
Set	42 °F	Char. varying intensity	Corr. 28.48"			
R. H.	58 %	24 hr. Mov. 90.5 mi.	Sea L. 29.75"	0700 Clds. 3/10	1300 Clds.	1900 Clds.
Ppn. Liq.	0.06 in.	Prev. Dir. S	3 hr. Tend. +1mb ✓	Wx sct. Stratus to 5 & 8	Wx	Wx
Ppn. Sol.	0 in.	Snow Depth 0 in.	Observer MSS	Vis. 7 miles	Vis.	Vis.

$$T_{\text{ramos}} = 43^{\circ}\text{F}$$

$$\bar{T} = 38^{\circ}\text{F}$$

$$T_{\text{wet bulb}} = 39^{\circ}\text{F}$$

$$T_a = 31^{\circ}\text{F}$$

$$\text{HDD} = 27$$

$$\Sigma \text{HDD} = 694$$

$$\Sigma \text{PCN}_e = 1.50''$$

$$\Sigma \text{PCN}_s = 3.9''$$



TUES. JAN 25 1990

0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	57 °F	Dir. ESE	Temp. 75'	• L - 0415LT - OBS - Ridge tops obscured by clouds.  • Ramos: 55, 40		
Min.	38 °F	Vel. 4-8 m.p.h.	Read. 28.56			
Set	44 °F	Char. various	Corr. 28.43			
R. H. %	74 %	24 hr. Mov. 118 mi.	Sea L. 27.79	Clds. # / amount / 10	Clds.	Clds.
Ppn. Liq.	T in.	Prev. Dir. SSW	3 hr. Tend. -2 \	Wx • L - • oc	Wx	Wx
Ppn. Sol.	0 in.	Snow Depth 0 in.	Observer JEK	Vis. 5 mi.	Vis.	Vis.

$$T_{\text{conf}} = 44$$

$$T_w = \text{---}$$

$$T_d = \text{---}$$

$$T_{\text{unv}} = 45$$

$$T_{\text{dunv}} = 37$$

$$\bar{T} = 48$$

$$HDD = 17$$

$$\sum HDD = 711$$

$$cDD = 0$$

$$\sum cDD = 0$$

$$\sum PCW = 1.50^\circ$$

$$\sum PCW_s = 3.9''$$

Fri. Jan. 26, 1990

0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind		Barom.	General Obs.		
Max.	53 °F	Dir.	W	Temp.	L- 0700 - 0900 LT (0cm L)		
				76	RW- 1230 - 1400 LT		
Min.	30 °F	Vel.	13 m.p.h.	Read.	R- 1915 - 2200 LT		
				28.60	Wshft/Fropa - 1945 LT		
Set	30 °F	Char.	Gusting to 22	Corr.	PK Gust 46 mph - 2054 LT (200)		
				28.46	0700	1300	1800
R. H.	100 %	24 hr. Mov.	166.4 mi	Sea L.	Clds.	Clds.	Clds.
				29.86	X		
Ppn.	24 in.	Prev. Dir.	SW	3 hr. Tend.	Wx	Wx	Wx
				✓ +1.0rb	St F		
Ppn.	10 in.	Snow Depth	1 in.	Observer	Vis.	Vis.	Vis.
				ESP	1/8 mi		

$T_{\text{roof}}$ : 30

$T_{\text{wet}}$ : 30

$T_d$ : 30

$T$ : 42

$H_{\text{a}}$ : 23

$\Sigma H_{\text{a}}$ : 734

$\Sigma p_{\text{a}}(L)$ : 1.74

$\Sigma p_{\text{a}}(s)$ : 4.9 "

3 0600-obs (ocul st)

Spicer at ob (1/1/1)

Ramos: 55,28

SAT. JAN 27 1990

0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	31 °F	Dir.	Temp.	(St leading up to 06. YESTERDAY) • St ENDS 0800 LT • S - 0800 - 0945 (DENS. 5) • 10.19 1.7 sol. total • TRN SW - 1530 - 1600 LT • SW - 1645 - 1700 LT (ONLY TRANS MOSS) 0700      1300      1900		
Min.	18 °F	Vel.	Read.			
Set	19 °F	Char.	Corr.			
R. H. <i>any</i>	74 %	24 hr. Mov.	Sea L.			
Ppn.	Liq.	Prev. Dir.	3 hr. Tend.	Wx	Wx	Wx
Ppn.	Sol.	Snow Depth	Observer	Vis.	Vis.	Vis.

$$\begin{array}{lll} T_{\text{ref lanes}} = 23 & \overline{T} = 25 & \sum PEN_L = 1.84'' \\ T_w = \text{---} & HDB = 40 & \sum PEN_S = 6.6'' \\ T_d = \text{---} & \sum HDB = 774 & \\ & CDB = 0 & \\ T_{\text{inv}} = 23 & \sum CDB = 0 & \\ T_{\text{dwn}} = 16 & & \end{array}$$

Sun. Jan. 28, 1990

0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	50 °F	Dir. W	Temp. 78	Frogs ~ 0630 LT Binovc Meteor - 7910 LT. Brightly 4561. Reads: 42.39 (to occurred ~ 0000 LT)		
Min.	19 °F	Vel. 14 m.p.h.	Read. 28.96			
Set	47 °F	Char. Steady	Corr. 28.82			
R. H.	49 %	24 hr. Mov. 125.9	Sea L. 30.20	0700 Clds. 10/10 AS	1300 Clds.	1900 Clds.
Ppn.	0 in.	Prev. Dir. SSW	3 hr. Tend. ✓ +2.2 mb	Wx OVC	Wx	Wx
Ppn.	0 in.	Snow Depth 0 in.	Observer ESP	Vis. 10 mi	Vis.	Vis.

$\sum x_i^2$ : 40

$\sum x_i$ : 40

$\sum x_i$ : 30

$\bar{x}$ : 35

$n$ : 30

$\sum x_i^2$ : 794

$\sum x_i(x_i - \bar{x})^2$ : 1.84

$\sum x_i(x_i - \bar{x})^3$ : 6.6





$$T_{\text{roof}} = 27^{\circ}\text{F}$$

$$T_{\text{dunn}} = 26^{\circ}\text{F}$$

$$\bar{T} = 39^{\circ}\text{F}$$

$$\text{HDD} = 26$$

$$\Sigma \text{HDD} = 820$$

$$\Sigma \text{PCN}_2 = 2.26''$$

$$\Sigma \text{PCN}_3 = 10.6''$$

Tuesday, January 30, 1990

0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max. 37 °F	Dir. WNW	Temp. 74°F	•S 0700-0800 LT (ocnl St)			
Min. 29 °F	Vel. 12 m.p.h.	Read. 28.77"	•S- 0800-1330 LT (ocnl S, IP, St)			
Set 33 °F	Char. gusty	Corr. 28.64"	•P-ZR- 1330-1430LT			
			•R-ZR- 1430-1730LT			
R. H. 72 %	24 hr. Mov. 119.1 mi.	Sea L. 29.93"	0700 Clds. 10/10	1300 Clds.	1900 Clds.	
Ppn. Liq. 1.21 in.	Prev. Dir. W	3 hr. Tend. +4mb /	Wx OVC	Wx	Wx	
Ppn. Sol. 2.9 in.	Snow Depth 3 in.	Observer MSS	Vis. 6 miles	Vis.	Vis.	

- R- 1730 - 2000 LT
- RW-ZR-SW → ~2200 LT - 2230 LT

$$T_{roof} = 31^{\circ}\text{F}$$

$$\bar{T} = 33^{\circ}\text{F}$$

$$T_{dune} = 24^{\circ}\text{F}$$

- temperature near constant overnight  
Clo occurred yesterday at 0700 LT

- BINOC to WEST

$$HDD = 32$$

$$\sum HDD = 852$$

$$\sum PCN_e = 3.47''$$

$$\sum PCN_s = 13.5''$$

Wednesday, January 31, 1990

0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max. 37 °F		Dir. SW	Temp. 74 °F	* dense fog at foot of ridges		
Min. 17 °F		Vel. 3 m.p.h.	Read. 29.00"			
Set 17 °F		Char. steady	Corr. 28.87"			
R. H. 84 %		24 hr. Mov. 60.9 mi.	Sea L. 30.18"	0700 Clds. CLR	1300 Clds.	1900 Clds.
Ppn. 0 in.	Liq.	Prev. Dir. W	3 hr. Tend. +3mb /	Wx Fog	Wx	Wx
Ppn. 0 in.	Sol.	Snow Depth 2 in.	Observer MSS	Vis. 3 miles	Vis.	Vis.

$$T_{\text{roof}} = 17^{\circ}\text{F}$$

$$\bar{T} = 27^{\circ}\text{F}$$

$$T_{\text{dunw}} = 13^{\circ}\text{F}$$

$$HDD = 38$$

$$\Sigma HDD = 890$$

$$\Sigma PCN_e = 3.47$$

$$\Sigma PCN_s = 13.5''$$