

THURS. DEC. 1, 1988

0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	47 °F	Dir. W	Temp. 74	FEW FLAKES CURNT DUSTING ON RIDGES		
Min.	30 °F	Vel. 8 m.p.h.	Read. 28.73			
Set	30 °F	Char. GUSTS TO 14 MPH	Corr. 28.60			
R. H.	63 %	24 hr. Mov. 148.1 mi.	Sea L. 30.00	0700	1300	1900
Ppn.	Liq. T in.	Prev. Dir. SW	3 hr. Tend. +1.0mb /	Clds. 6/10 <sup>v</sup>	Clds.	Clds.
Ppn.	Sol. T in.	Snow Depth 0 in.	Observer JHM	Wx PTLY CLOY	Wx	Wx
				Vis. 20 mi.	Vis.	Vis.

$$T_{\text{root}} = 31 \quad T_d = 20$$

$$\bar{T} = 39$$

$$DD = 26$$

FRIDAY DEC. 2, 1988 0700 EST

Meteorological Observatory  
University Park, Pa.  
General Obs.

Temp.		Wind	Barom.	General Obs.		
Max.	35 °F	Dir. NW	Temp. 77	-MODERATE		
Min.	27 °F	Vel. G 20 12 m.p.h.	Read. 28.92			
Set	27 °F	Char. GUSTY	Corr. 28.79			
R. H.	66 %	24 hr. Mov. 157 MI	Sea L. 30.18	0700	1300	1900
Ppn.	Liq. T in.	Prev. Dir. SW	3 hr. Tend. STDY	Clds. Cu 6/10	Clds.	Clds.
Ppn.	Sol. T in.	Snow Depth - in.	Observer MPR	Wx BKN	Wx	Wx
				Vis. 15 MI	Vis.	Vis.

Troof: 28

Top. 14

$\bar{T}$ : 31

Hoo: 34

$\sum H_{oo}$ : 60

$\sum PCN(II)$ : T

$\sum PCN(III)$ : T

Sat. Dec 3, 1988

0700 EST

Meteorological Observatory  
University Park, Pa.

General Obs.

Temp.		Wind	Barom.	General Obs.		
Max.		Dir.	Temp.	Wind Gusts to 45 mph: ~ 18:30 LT ~ 20:00 LT ~ 22:00 LT		
39	°F	SW	70			
Min.		Vel.	Read.	Fog Contrails NW Rains Over to: 30		
27	°F	10 m.p.h.	28.98			
Set		Char.	Corr.	0700	1300	1900
31	°F	6007 (1020)	28.76	Clds.	Clds.	Clds.
R. H.		24 hr. Mov.	Sea L.	0/10		
54	%	260.4	30.17	Wx	Wx	Wx
Ppn.	Liq.	Prev. Dir.	3 hr. Tend.	CLR		
0	in.	NW	1.0 - b	Vis.	Vis.	Vis.
Ppn.	Sol.	Snow Depth	Observer	15 mi		
0	in.	0 in.	ESP			

$\sum_{i=1}^n x_i = 32$

$T_0 = 17$

$\bar{y} = 23$

$H_{00} = 32$

$\sum H_{0i} = 92$

$\sum P_{0i}(y) = 7$

$\sum P_{0i}(s) = 7$

Sun. Dec. 4, 1998

0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.		Dir.	Temp.			
58	°F	NW	74			
Min.		Vel.	Read.	Fropa ~ 2000 LT		
23	°F	19 m.p.h.	29.06	Fog SC W		
Set		Char.	Corr.	Prc or		
23	°F	hazy (w/29)	29.73	Rains over CO: 24		
R. H.		24 hr. Mov.	Sea L.	Clds.	Clds.	Clds.
44!	%	251.9 mi	30.37	0/40		
Ppn.	Liq.	Prev. Dir.	3 hr. Tend.	Wx	Wx	Wx
0	in.	WSW	/+3.5 mb	CLR		
Ppn.	Sol.	Snow Depth	Observer	Vis.	Vis.	Vis.
0	in.	0 in.	ESP	35+ mi		

$T_{max} = 24$

$T_0 = 5$

$\bar{T} = 41$

$H_{00} = 24$

$\Sigma T_{00} = 116$

$\Sigma R_n(t) = T$

$\Sigma R_n(s) = T$



MON, DEC. 5, 1988 0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind		Barom.	General Obs.			
Max.	35 °F	Dir.	WSW	Temp.	70			
Min.	23 °F	Vel.	8 m.p.h.	Read.	28.89			
Set	26 °F	Char.	STDY	Corr.	28.78			
R. H.	53 %	24 hr. Mov.	248 mI	Sea L.	30.18			
Ppn.	0 in.	Prev. Dir.	W	3 hr. Tend.	1-1mb			
Ppn.	- in.	Snow Depth	- in.	Observer	MPR			
						0700	1300	1900
						Clds. 14/10	Clds.	Clds.
						OVC C3		
						Wx	Wx	Wx
						OVC		
						Vis.	Vis.	Vis.
						15 mI		

- B IN OVC

- MOON DIMLY VISIBLE

Troof: 27

TWET: 9

T: 29

Hoo: 36

$\Sigma$ Hoo: 152

$\Sigma$ PCN(L): T

$\Sigma$ PCN(S): T

Tues. Dec. 6, 1988

0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	39 °F	Dir. SW	Temp. 77	Valley haze NE Vents brightly visible E		
Min.	26 °F	Vel. 9 m.p.h.	Read. 28.91			
Set	33 °F	Char. Steady	Corr. 28.77			
R. H.	49 %	24 hr. Mov. 89.6	Sea L. 30.16	Rains Over Lo: 21		
Ppn.	0 in.	Prev. Dir. SW	3 hr. Tend. - 0.0 mb	0700 Clds. 2/10 ST	1300 Clds.	1900 Clds.
Ppn.	0 in.	Snow Depth 0 in.	Observer ESP	Wx SCT	Wx	Wx
				Vis. 15 mi	Vis.	Vis.

$T_{roof} : 25$

~~$T_{air}$~~

$T_0 : 18$

$\bar{T} : 33$

$n_{00} : 32$

$\Sigma f_{146} : 184$

$\Sigma P_n (t) : T$

$\Sigma P_n (s) : T$

$\Sigma P_n (t) = \Sigma P_n (s) = T$

Wed 07 Dec 88

0700 EST

Meteorological Observatory  
University Park, Pa.  
General Obs.

Temp.		Wind		Barom.		General Obs.					
Max.	55 °F	Dir.	250	Temp.	73	Venus + Thin Crescent moon Visible E Remains overnite Lo - 41°					
Min.	32 °F	Vel.	10 m.p.h.	Read.	28.60						
Set	40 °F	Char.	Steady	Corr.	28.48				0700	1300	1900
R. H.	43 %	24 hr. Mov.	163.2	Sea L.	29.85				Clds.	Clds.	Clds.
Ppn.	— in.	Prev. Dir.	S	3 hr. Tend.	+ 1/2 in.	Wx	Wx	Wx			
Ppn.	— in.	Snow Depth	— in.	Observer	JSL	Vis.	Vis.	Vis.			
						CLR					
						25 miles					

$$I_{\text{roof}} = 43.5^\circ$$

$$T_{\text{wet}} = 35^\circ$$

$$T_0 = 22^\circ$$

$$\bar{T} = 44$$

$$DD = 21$$

$$\Sigma DD = 205$$

$$\Sigma PCN = T$$

THURS. DEC. 8, 1988

0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max. 50 °F		Dir. WSW	Temp. 74	CLR E + SE MAX CLOS W + SW		
Min. 25 °F		Vel. 5 m.p.h.	Read. 28.90			
Set 25 °F		Char. STDY	Corr. 28.77	RAMUS OVRNT LO = 28		
				0700	1300	1900
R. H. 69 %		24 hr. Mov. 116 mi.	Sea L. 30.18	Clds. 7/10 $\checkmark$	Clds.	Clds.
Ppn. Liq. 0 in.		Prev. Dir. W	3 hr. Tend. +2.0mb/	Wx BKN	Wx	Wx
Ppn. Sol. 0 in.		Snow Depth 0 in.	Observer JHM	Vis. 25 mi.	Vis.	Vis.

$$T_{roof} = 29 \quad T_d = 20$$

$$\bar{T} = 38$$

$$DD = 27$$

$$\Sigma DD = 232$$

$$\Sigma PLW = T$$



FRI. DEC. 9, 1988

0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind		Barom.	General Obs.		
Max.	40 °F	Dir.	SW	Temp.			
				79			
Min.	20 °F	Vel.	8 m.p.h.	Read.			
				29.00			
Set	22 °F	Char.	STDY	Corr.			
				28.86	0700	1300	1900
R. H.	65 %	24 hr. Mov.	80MI	Sea L.	Clds.	Clds.	Clds.
				30.16	10/10 SE		
Ppn.	Liq.	Prev. Dir.	3 hr. Tend.	Wx	Wx	Wx	Wx
	T in.	W	1-1/2mb	OVC			
Ppn.	Sol.	Snow Depth	Observer	Vis.	Vis.	Vis.	Vis.
	T in.	- in.	MPR	20MI			

Troof: 23

To.p: 11

$\bar{T}$ : 30

Hoo: 35

$\Sigma H_{00}$ : 267

$\Sigma PCW_{KI}$ : T

$\Sigma PCW_{GI}$ : T

SAT. 10 Dec 88

0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind		Barom.	General Obs.			
Max.	33 °F	Dir.	W	Temp.	SW- ~ 2130 LT  Ramos overnight Lo-18			
				76				
Min.	18 °F	Vel.	10 m.p.h.	Read.				28.89
Set	18 °F	Char.	Steady	Corr.	28.75			
R. H.	65 %	24 hr. Mov.	176.5	Sea L.	300.20	0700	1300	1900
						Clds. 0/10	Clds.	Clds.
Ppn.	T in.	Prev. Dir.	W	3 hr. Tend.	-0.2 <sup>mb</sup> / <sub>hr</sub>	Wx	Wx	Wx
						CLR		
Ppn.	T in.	Snow Depth	T in.	Observer	JSL	Vis.	Vis.	Vis.
						25		

$$T_p = 6^\circ$$

$$T_{\text{root}}^{\text{atmos}} = 18^\circ$$

$$\bar{T} = 26^\circ$$

$$DD = 39$$

$$\Sigma OD = 306$$

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

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

Sun. Dec. 11, 1938

0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind		Barom.		General Obs.		
Max.	29 °F	Dir.	SW	Temp.	77	S-B ~ 1600 LT E ~ 2100 LT SW ~ 2300 LT Frpa ~ 2300 LT		
Min.	10 °F	Vel.	8 m.p.h.	Read.	28.94			
Set	11 °F	Char.	steady	Corr.	28.80	Rains over Co: 12		
R. H.	73 %	24 hr. Mov.	139.0 mi	Sea L.	30.27	0700	1300	1900
						Clds.	Clds.	Clds.
						S <sub>10</sub> Sc		
Ppn.	.02 in.	Prev. Dir.	SSW	3 hr. Tend.	1 + 15 mb	Wx	Wx	Wx
						-BKN		
Ppn.	.4 in.	Snow Depth	T in.	Observer	ESP	Vis.	Vis.	Vis.
						15 mi		

Trans : 12

$T_0$  : 5

$\bar{f}$  : 20

$H_{60}$  : 45

$\Sigma V_{60}$  : 251

$\Sigma A_{60}(L)$  : .02"

$\Sigma A_{60}(S)$  : .4"

MON. DEC. 12, 1988 0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind		Barom.	
Max.	21 °F	Dir.	N	Temp.	72
Min.	* -6 °F	Vel.	0 m.p.h.	Read.	29.18
Set	-4 °F	Char.	CALM	Corr.	29.06
R. H.	67 %	24 hr. Mov.	73 mi	Sea L.	30.40
Ppn.	0 in.	Prev. Dir.	WNW	3 hr. Tend.	+1mb
Ppn.	8" Sol.	Snow Depth	1 in.	Observer	MPR

General Obs.  
\* NEW RECORD LOW FOR  
DATE. OLD RECORD -1.58  
\* 1100 - 1300 LOCAL  
BERRE!!!  
COLDEST EVER SO EARLY  
IN SEASON

	0700	1300	1900
Clds.	0/10		
Wx	CLR		
Vis.	25MI		

Troof: ①

T.o.p. -5

T: ~~X~~ 8

Hoo: 57

$\Sigma$ Hoo: 405

$\Sigma$ PCW(A): .06"

$\Sigma$ PCW(S): 1.2"

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Tues. Dec. 13, 1998

0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	17 °F	Dir. SE	Temp. 79°F!	* - New Record Low (old, 0 in 1962)		
Min.	-5 °F	Vel. 6 m.p.h.	Read. 28.72	Virga W, S, N		
Set	10 °F	Char. Steady	Corr. 28.58	Rains Over 40: 8		
R. H.	53 %	24 hr. Mov. 52.3 in	Sea L. 29.95	Clds. 10/10 MS	Clds.	Clds.
Ppn.	0 in.	Prev. Dir. S	3 hr. Tend. L-LSmb	Wx OVC	Wx	Wx
Ppn.	0 in.	Snow Depth 1" in.	Observer ESP	Vis. 7 mi	Vis.	Vis.

Trans : 10

To : - 4

T: 6

DB: 59

EA<sub>0</sub>: 464

EA<sub>n</sub>(4): .06"

EA<sub>n</sub>(8): 1.2"

Wed 14 Dec. 1988

0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max. 30 °F		Dir. SW	Temp. 78°	SB 20738 (LT) ← 13 Dec S-E ~ #130 (LT) ← 14 Dec MIN TEMP @ 0800 LT 13th		
Min. 9 °F		Vel. 5 m.p.h.	Read. 28.86			
Set 20 °F		Char. Steady	Corr. 28.72	Remains Overcast Low - 15		
R. H. 77 %		24 hr. Mdv. N/A	Sea L. 30.18	Clds. 4/10	Clds. 1300	Clds. 1900
Ppn. .05 in.	Liq.	Prev. Dir. S	3 hr. Tend. 1/42 MB 3 hrs	Wx Sct	Wx	Wx
Ppn. .8 in.	Sol.	Snow Depth 1 in.	Observer JSL	Vis. 25	Vis.	Vis.

$$T_{\text{root}}(\text{rinos}) = 23$$

$$T_0 = 16^\circ$$

$$\bar{T} = 20^\circ$$

$$DD = 45$$

$$\Sigma DD = 509$$

$$\Sigma PCNE = .11''$$

$$\Sigma PCN(S) = 2.0''$$

THURS. DEC 15, 1988 0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	45 °F	Dir. WSW	Temp. 72	PRESRR WIND GUSTS TO 52 MPH 0930-0950Z FROPA C. 0600Z MAX TEMP C. 0700Z MIN TEMP C. 1240Z, 14th		
Min.	17 °F	Vel. 10 m.p.h.	Read. 28.63			
Set	36 °F	Char. GUSTS TO 22 MPH	Corr. 28.50			
R. H.	56 %	24 hr. Mov. 152 mi.	Sea L. 29.89			
Ppn.	Liq. .03 in.	Prev. Dir. S	3 hr. Tend. +2.5mb/	Clds. 10/10 ✓	Clds.	Clds.
Ppn.	Sol. T in.	Snow Depth T in.	Observer JHM	Wx BLUSTERY!	Wx	Wx
				Vis. 20 mi.	Vis.	Vis.

$$T_{\text{roof}} = 37 \quad T_d = 22 \quad T_{d \text{ corr}} = 24$$

$$\bar{T} = 31$$

$$DO = 34$$

$$\Sigma DO = 543$$

$$\Sigma PCN(L) = .14''$$

$$\Sigma PCN(S) = 2.0''$$

FRI. DEC. 16, 1988 700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max. 36 °F		Dir. SW	Temp. 78	SG-, SP- BGN ≈ 7:30 LT END ≈ 10:30 LT		
Min. 9 °F		Vel. 8 m.p.h.	Read. 29.07			
Set 10 °F		Char. STDY	Corr. 28.89	0700	1300	1900
R. H. 69 %		24 hr. Mov. 211 ME	Sea L. 30.24	Clds. 7/10 SC CU	Clds.	Clds.
Ppn. T in.	Liq.	Prev. Dir. W	3 hr. Tend. STDY	Wx BKN	Wx	Wx
Ppn. T in.	Sol.	Snow Depth 0 in.	Observer MPR	Vis. 18 MI	Vis.	Vis.

Troof: 11

T.D.2: 1

T: 23

Hoo: 42

ΣHoo: 585

ΣPCN(L): .14"

ΣPCN(SI): 2.0"



SAT. DEC. 17, 1988

0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	25 °F	Dir. S	Temp. 79	RAMOS CURNT LGW: 17		
Min.	10 °F	Vel. 6 m.p.h.	Read. 28.71			
Set	17 °F	Char. STDY	Corr. 28.57	0700	1300	1900
R. H.	54 %	24 hr. Mov. 64me	Sea L. 29.88	Clds. 10/10 OVC St	Clds.	Clds.
Ppn. Liq.	0 in.	Prev. Dir. W	3 hr. Tend. 1-2mb	Wx OVC, RAW	Wx	Wx
Ppn. Sol.	- in.	Snow Depth - in.	Observer MPR	Vis. 15mi	Vis.	Vis.

$T_{\text{root}}: 17$

$T_{D.P.}: \emptyset$

$\bar{T}: 18$

$H_{00}: 47$

$\sum H_{00}: 632$

$\sum PCN(\ell): 0.14''$

$\sum PCN(\ell): 2.0''$

SUN. DEC 18, 1988

0700 EST

Meteorological Observatory  
University Park, Pa.

General Obs.

Temp.		Wind		Barom.
Max.	23 °F	Dir.	W	Temp.
Min.	15 °F	Vel.	15 m.p.h.	Read.
Set	16 °F	Char.	GUSTS TO 30 MPH	Corr.
R. H.	64 %	24 hr. Mov.	119 mi.	Sea L.
Ppn. Liq.	.02 in.	Prev. Dir.	W	3 hr. Tend.
Ppn. Sol.	.3 in.	Snow Depth	T in.	Observer
				JHM

OCNL.  $\nabla$  1300-1500 local, 17th  
and 0000-0600 local, 18th

	0700	1300	1900
Clds.	7/10 $\nabla$		
Wx	SEVERE WIND CHILL		
Vis.	10 mi.		

$$T_{\text{roof}} = 17 \quad T_{\text{a}} = 7$$

$$\bar{T} = 19$$

$$DD = 46$$

$$\sum DD = 678$$

$$\sum \rho_{LN}(L) = 0.16''$$

$$\sum \rho_{LN}(S) = 2.3''$$

MON. DEC. 19, 1988 0700 EST

Meteorological Observatory  
University Park, Pa.  
General Obs.

Temp.		Wind		Barom.	
Max.	23 °F	Dir.	W	Temp.	76
Min.	16 °F	Vel.	5 m.p.h.	Read.	28.74
Set	18 °F	Char.	STDY	Corr.	28.60
R. H.	70 %	24 hr. Mov.	150 mi.	Sea L.	30.04
Ppn. Liq.	.01 in.	Prev. Dir.	SW	3 hr. Tend.	+2.0 mb
Ppn. Sol.	.2 in.	Snow Depth	T in.	Observer	JHM

INTERMITTENT SW - 1  
1100 - 1400 LOCAL  
2100 - 0300 LOCAL

RANGE EVENT L0 = F7

	0700	1300	1900
Clds.	2/10		
Wx	MOSTLY CLEAR		
Vis.	15 mi.		

$$I_{\text{root}} = 20 \quad T_d = 12$$

$$\bar{T} = 20$$

$$D_0 = 45$$

$$\sum D_0 = 723$$

$$\sum p_{\text{CN}}(L) = 0.17''$$

$$\sum p_{\text{CN}}(S) = 2.5''$$

TUE. DEC 20, 1988

0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind		Barom.		General Obs.		
Max.	45 °F	Dir.	WSW	Temp.	74	MAJOR LEADLINE INVERSION 8°F VARIATION ROOF-GROUND RAMOS OVERT LO = 39 VISIBILITY OPTIMAL		
Min.	17 °F	Vel.	3 m.p.h.	Read.	28.80			
Set	34 °F	Char.	light	Corr.	28.67			
R. H.	39 %	24 hr. Mov.	104 mi.	Sea L.	30.07	0700	1300	1900
Ppn.	0 in.	Prev. Dir.	S	3 hr. Tend.	+0mbV	Clds.	Clds.	Clds.
Ppn.	0 in.	Snow Depth	0 in.	Observer	JHM	Wx	Wx	Wx
						Wx	Wx	Wx
						Vis.	Vis.	Vis.
						30 mi.		

$$T_{roof} = 42 \quad T_d = 19 \quad T_{d\text{ unv}} = 19$$

$$\bar{T} = 31$$

$$DD = 34$$

$$\Sigma DD = 757$$

$$\Sigma \rho_{\text{max}}(L) = 0.17''$$

$$\Sigma \rho_{\text{max}}(S) = 2.5''$$



WED. DEC. 21, 1988 0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind		Barom.	General Obs.		
Max.	61* °F	Dir.	W	Temp.	PRESRR FROPA C. 0615 LOCAL		
Min.	32 °F	Vel.	10 m.p.h.	Read.	OVRNT TEMPS STDY 56-57° RANMS OVRNT LOW @ OBS TIME		
Set	49 °F	Char.	GUSTS TO 10 mph	Corr.	* REC MAX T FOR DATE 50° MIN TMP OCURD C. 0730 local, 20m		
R. H.	71 %	24 hr. Mov.	217 mi.	Sea L.	0700	1300	1900
Ppn.	.03 in.	Prev. Dir.	SW	3 hr. Tend.	Clds.	Clds.	Clds.
Ppn.	0 in.	Snow Depth	0 in.	Observer	Wx	Wx	Wx
				JHM	Vis.	Vis.	Vis.
					7 mi.		

$$T_{\text{roof}} = 50 \quad T_d = 41$$

$$\bar{T} = 47$$

$$DD = 18$$

$$\Sigma DD = 775$$

$$\Sigma P_{LN}(L) = 0.20''$$

$$\Sigma P_{LN}(S) = 2.5''$$

.03" Precip occur AT TIME  
OF FROPA

THURS. DEC 22, 1988 0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	49 °F	Dir. NNW	Temp. 76	STRATUS NORTH		
Min.	25 °F	Vel. 8 m.p.h.	Read. 29.19			
Set	28 °F	Char. STDY	Corr. 29.05	RANGE WENT LO = 29		
				0700	1300	1900
R. H.	58 %	24 hr. Mov. 98 mi.	Sea L. 30.47	Clds. 2/10	Clds.	Clds.
Ppn.	T in.	Prev. Dir. W	3 hr. Tend. +1.5mb/	Wx MOSTLY CLR	Wx	Wx
Ppn.	0 in.	Sol.	Snow Depth	Observer	Vis.	Vis.
		0 in.		JHM	20 mi.	

THURS. DEC 22, 1988

$$T_{\text{max}} = 29 \quad T_d = 16$$

$$\bar{T} = 37$$

$$DD = 28$$

$$\Sigma DO = 803$$

$$\Sigma \rho_{LN}(\bar{L}) = 0.20''$$

$$\Sigma \rho_{LN}(D) = 2.5''$$

FRI. DEC 23, 1988 0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	39 °F	Dir. S	Temp. 75	PRESFR PRESJMP (RR) 0530-0615 LOCAL ZR B 0615 LOCAL (10-15 min of WEST ID) RAMOS OVERT LO = 30		
Min.	25 °F	Vel. 16 m.p.h.	Read. 28.86			
Set	31 °F	Char. GUSTS TO 26 MPH	Corr. 28.73			
R. H.	75 %	24 hr. Mov. 115 mi.	Sea L. 30.14	0700 Clds. 1/10	1300 Clds.	1900 Clds.
Ppn.	Liq. .19 in.	Prev. Dir. SSE	3 hr. Tend. ^ -1.0mb	Wx ZR	Wx	Wx
Ppn.	Sol. T in.	Snow Depth T in.	Observer JHM	Vis. 3 mi.	Vis.	Vis.

$$T_{\text{roof}} = 31 \quad T_d = 24$$

$$\bar{T} = 32$$

$$D_0 = 33$$

$$\Sigma D_0 = 836$$

$$\Sigma p_{\text{CN}}(L) = 0.39''$$

$$\Sigma p_{\text{CN}}(S) = 2.5''$$

SAT. DEC 24, 1988

0700 EST

Meteorological Observatory  
University Park, Pa.  
General Obs.

Temp.		Wind	Barom.
Max.	39 °F	Dir. ENE	Temp. 74
Min.	25 °F	Vel. 8 m.p.h.	Read. 28.78
Set	28 °F	Char. LIGHT	Corr. 28.65
R. H.	82 %	24 hr. Mov. 94.6	Sea L. 30.06
Ppn. Liq.	.13 in.	Prev. Dir. SSW	3 hr. Tend. -3.1mb
Ppn. Sol.	0 in.	Snow Depth 0 in.	Observer PK

22-6 1135 LT  
VORT SUMMARY!  
DOUBLE FIG W PATCHES from 1630 LT  
12/25  
TO OBS 200

	0700	1300	1900
Clds.	10/10 STARS		
Wx	22-		
Vis.	LONG FOG		

$$T_{roof} = 29 \quad T_u = 23$$

$$\bar{T} = 32$$

$$D_0 = 33$$

$$\Sigma D_0 = 869$$

$$\Sigma P_{w(i)} = 0.52^*$$

$$\Sigma R_{p(i)} = 25^*$$



SUN. DEC. 25, 1988

0700 EST

Meteorological Observatory  
University Park, Pa.

General Obs.

Temp.		Wind	Barom.	General Obs.		
Max.	49 °F	Dir. WNW	Temp. 68	PRESRR ZR- and ZR 0700 - 0900 local INTERMITTENT R- and RW+ 0900 - 0500 local TRW C. 1830 local FROPA C. 1900 local MAX TEMP. C. 2030 local		
Min.	28 °F	Vel. 20 m.p.h.	Read. 28.67			
Set	37 °F	Char. GUSTS TO 40 MPH	Corr. 28.55			
R. H.	57 %	24 hr. Mov. 179 mi.	Sea L. 29.94"			
Ppn.	.62 in.	Prev. Dir. W	3 hr. Tend. +2.5mb/	Clds. 7/10 $\cup$	Clds.	Clds.
Ppn.	0 in.	Snow Depth 0 in.	Observer JHM	Wx BLUZZBY!	Wx	Wx
				Vis. 20 mi.	Vis.	Vis.

$$T_{\text{roof}} = 38 \quad T_R = 24$$

$$\bar{T} = 39$$

$$D_0 = 26$$

$$\Sigma D_0 = 895$$

$$\Sigma P_{LN}(L) = 1.14''$$

$$\Sigma P_{LN}(B) = 2.5''$$

MON. DEC 26, 1988

0700 EST

Meteorological Observatory  
University Park, Pa.

General Obs.

Temp.		Wind		Barom.		General Obs.		
Max.	40 °F	Dir.	WNW	Temp.	72			
Min.	24 °F	Vel.	10 m.p.h.	Read.	29.10			
Set	24 °F	Char.	GUSTS TO 15 mph	Corr.	28.97	0700	1300	1900
R. H.	52 %	24 hr. Mov.	248 mi.	Sea L.	31.41	Clds.	Clds.	Clds.
Ppn.	0 in.	Prev. Dir.	W	3 hr. Tend.	+2.0mb /	Wx	Wx	Wx
Ppn.	0 in.	Snow Depth	0 in.	Observer	JHM	Wx	Wx	Wx
						Vis.	Vis.	Vis.
						25 mi.		

$$T = 25 \quad T_2 = 10$$

$$\bar{T} = 32$$

$$DD = 33$$

$$\Sigma DD = 928$$

$$\Sigma PCN(L) = 1.14''$$

$$\Sigma PCN(S) = 2.5''$$

TUE. DECEMBER 27, 1988 0700 EST

Meteorological Observatory  
University Park, Pa.  
General Obs.

SW - 20300 - 0600 LT 2774

Temp.		Wind	Barom.	General Obs.		
Max.	33 °F	Dir. S	Temp. 76°			
Min.	24 °F	Vel. 11 m.p.h.	Read. 29.20			
Set	26 °F	Char. -	Corr. 29.06			
R. H.	61 %	24 hr. Mov. 83 mi	Sea L. 30.50	0700 Clds. 10/10 St.	1300 Clds.	1900 Clds.
Ppn. Liq.	T in.	Prev. Dir. W	3 hr. Tend. -1.9mb	Wx	Wx	Wx
Ppn. Sol.	T in.	Snow Depth T in.	Observer FJG	Vis. 15 mi	Vis.	Vis.

$$T_{RAMOS} = 27 \quad T_d = 13$$

$$\bar{T} = 29$$

$$DD = 36$$

$$\sum DD = 964$$

$$\sum_{(L)}^{DCN} = 1.14''$$

$$\sum_{(S)}^{PCN} = 2.5''$$

WED DEC. 28, 1988

0700 EST

Meteorological Observations  
University Park, Pa.  
General Obs.

Temp.		Wind		Barom.
Max.	45 °F	Dir.	-	Temp.
Min.	26 °F	Vel.	0 m.p.h.	Read.
Set	36 °F	Char.	CAIM	Corr.
R. H.	51 %	24 hr. Mov.	158 <sup>1/2</sup> mi	Sea L.
Ppn.	T in.	Prev. Dir.	S	3 hr. Tend.
Ppn.	0 in.	Snow Depth	0 in.	Observer

RW ~ 0630Z

RAMOS OJRNT TMP: 38-43

	0700	1300	1900
Clds.	9/10		
Wx	Cldy		
Vis.	20 mi		

$$RAMOS = 40 \quad T_d = 21$$

$$\bar{T} = 36$$

$$DD = 29$$

$$\sum_{DD} = 993$$

$$\sum_{(L)}^{PCW} = 1.14''$$

$$\sum_{(S)}^{PCW} = 2.5''$$



THURS. DEC. 29, 1988

0700 EST

Meteorological Observatory  
University Park, Pa.

Temp.		Wind		Barom.	General Obs.			
Max.	44 °F	Dir.	NW	Temp.	PCPN. VRY LGT. PROPA 1340 LUAL 28th GUST TO 61 MPH 1403 LT R-B 0910 LT, E 1415 LT SW- 1410-1440 LT RAPID PRESS RISE FROM ~10 mb in 3 hr.			
Min.	19 °F	Vel.	10 m.p.h.	Read.				29.05
Set	19 °F	Char.	STDY	Corr.				28.92
R. H.	68 %	24 hr. Mov.	227 mi.	Sea L.	30.37	0700	1300	1900
						Clds.	Clds.	Clds.
Ppn.	Liq.	Prev. Dir.	3 hr. Tend.	Wx	SW--			
	.17 in.	W	+2.5mb/					
Ppn.	Sol.	Snow Depth	Observer	Vis.	9 mi.			
	T in.	0 in.	JHM					

$$T_{roof} = 19 \quad T_2 = 10$$

$$\bar{T} = 32$$

$$DD = 33$$

$$\Sigma_{00} = 1026$$

$$\Sigma_{pw(L)} = 1.31''$$

$$\Sigma_{pw(S)} = 2.5''$$

FRI DEC 30, 1988

0700 EST

Meteorological Observatory  
University Park, Pa.  
General Obs.

Temp.		Wind	Barom.	CLDS MISTY ci, SOLID TO SWITH OCASNL SW - MORNING OF 29TH			
Max.	25 °F	Dir.	Temp.				74
Min.	15 °F	Vel.	Read.				28.94
Set	16 °F	Char.	Corr.				28.81
R. H.	70 %	24 hr. Mov.	Sea L.	30.26	0700	1300	1900
Ppn.	Liq.	Prev. Dir.	3 hr. Tend.	-1.0mb	Clds.	Clds.	Clds.
	T in.				4/10		
Ppn.	Sol.	Snow Depth	Observer	JHM	Wx	Wx	Wx
	T in.	0 in.			SCT		
			Observer	JHM	Vis.	Vis.	Vis.
					12 mi.		

$$T_{\text{roof}} = 17 \quad T_d = 9$$

$$\bar{T} = 20$$

$$DD = 45$$

$$\Sigma DD = 1071$$

$$\Sigma PCN(L) = 1.31''$$

$$\Sigma PCN(S) = 2.5''$$



$$T_{\text{roof}} = 28 \quad T_d = 13$$

$$\bar{T} = 25$$

$$D_0 = 40$$

$$\Sigma D_0 = 1111$$

$$\Sigma p_{\text{w}}(L) = 1.31''$$

$$\Sigma p_{\text{w}}(S) = 2.5''$$