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Engineering Laboratory

## *Comparison of winter climatic data for three New Hampshire sites*

John W. Govoni and Sandra J. Smith

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) -This data report contains climatological measurements for the winters of 1980-81 and 1981-82 made at three sites in New Hampshire situated at elevations of 155 m, 870 m and 1910 m above sea level. Parameters measured included wind speed and direction, precipitation, temperature, humidity, and duration of icing events. Comparison of the data provides the opportunity to examine the influence of elevation on atmospheric icing occurrence and intensity. In New Hampshire, icing appears to occur only at elevations above about 900 m.		

## PREFACE

This report was prepared by John W. Govoni, Physical Science Technician, Snow and Ice Branch, Research Division, and Sandra J. Smith, Editorial Assistant, Technical Information Branch, Technical Services Division. The work was performed as part of DA Project 4A762730AT42, Design, Construction and Operations Technology for Cold Regions, Task Area SS, Work Unit 002, Mechanical Design for Icing Environments.

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## COMPARISON OF WINTER CLIMATIC DATA FOR THREE NEW HAMPSHIRE SITES

John W. Govoni and Sandra J. Smith

### INTRODUCTION

Over the past several years there has been growing interest in icing conditions at high elevations, especially on high-power transmission lines in the Northeast. Extensive damage has been caused by ice buildup on power lines and towers, and occasionally complete collapse of transmission systems has occurred. There is thus a need for basic meteorological data that can be related to icing rates and conditions in icing-susceptible regions. This information is necessary for the design and location of proposed power line systems (Howe 1982-1983), wind power generation facilities, ski area lift facilities and microwave relay towers.

During the months of October 1980 through April 1982, we measured wind speed and direction, temperature, precipitation and humidity while monitoring icing events near the summit of Loon Mountain, New Hampshire. The same data were collected at the Cold Regions Research and Engineering Laboratory (Hanover, N.H.) and at the summit of Mt. Washington, N.H. In this report we compare the meteorological and icing parameters at these three locations.

Loon Mountain is located in Lincoln ( $44^{\circ} 07' N$ ,  $71^{\circ} 30' W$ ), and has an elevation of 934 m. The data collection site is located at the top of the Loon Mountain Ski Area at an elevation of about 870 m. The site's exposure is roughly  $270^{\circ}$  from southwest to southeast. The site is a fairly level knoll with vegetation consisting mainly of spruce, balsam, and yellow birch, all under 8 m high. The various sensors were located so that there was minimal interference from buildings or trees.

The site was chosen for several reasons. Its elevation is approximately the maximum reached by existing or proposed power line corridors. Information obtained from earlier studies\* shows that 2800 to 3000 ft (850 to 900 m) is the minimum elevation for atmospheric icing on mountains in the Northeast. In addition, this site is accessible by a gondola lift that

\*C. Ryerson, University of Vermont, personal communication, 1985.

operates year-round, and the heated ski patrol building on the summit provides an ideal location for instruments that must be kept warm.

The second location, the Cold Regions Research and Engineering Laboratory (CRREL), is located in Hanover (43° 43' N, 72° 16' W). The instrumentation site is in an open field (elevation 155 m) west of the main building and adjacent to several test cells constructed in 1972 to study the effects of wastewater on a variety of vegetation and soil types. The meteorological site was established to collect climatic information for the study, and since that time has been in continuous operation.

The third site is on the summit of Mount Washington (44° 16' N, 71° 18' W), about 1,910 m above sea level. The Mt. Washington Observatory, located at the summit, is a first-order National Weather Service Observation Station. The observatory is in the clouds more than half the time and has prevailing winds from the west and west-northwest. The most severe storm winds, however, are usually from the southeast, and quite often exceed 160 km/hr.

Minimum temperatures at the summit are not as extreme as those in the surrounding lowlands. However, the observatory experiences very rapid temperature changes, and below-freezing temperatures are recorded every month of the year. This combination of year-round low temperatures and the presence of liquid water droplets in the air makes it an ideal outdoor laboratory for studying atmospheric icing on structures (Govoni and Ackley 1983, 1984).

The CRREL and Mt. Washington sites were chosen because their elevations are about 700 m below and 1100 m above the elevation of Loon. This data set thus provides an opportunity to examine the influence of elevation on icing intensity and other meteorological parameters. In addition, the Mt. Washington site is used for basic studies relating icing rate to in-cloud parameters and for testing a variety of icing sensors.

An explanation of the parameters measured and equipment used at all three sites is given in Appendix A.

## DISCUSSION

### Wind Speed and Direction

To rapidly establish the prevailing wind speed and direction, wind rose diagrams for each month were plotted using a computer program. Each wind rose (App. B, Fig. B1-B6) shows the distribution of wind direction and



magnitude. The vectors give the directional percentage of wind occurrence (length of the thin line) and wind speed (length of the thick line) as described by Bates (1981). Appendix B (Table B1) also contains the monthly wind data for the three sites. Daily average wind speed and direction, peak gust and direction, and the time (LST) when the gusts occurred are included in this table. Figure 1 is a log-log plot of the average wind speed vs elevation for the three sites. A reasonable power law relationship appears to exist between wind speed and elevation.

The GMQ11 wind set at Loon was mounted on a metal pole approximately 3.5 m above the roof of a 10-m-high wooden observation tower. This provided a 360° unobstructed view for obtaining wind speed and direction. During the 14 months of study at Loon, the lowest average monthly wind speed (1.8 m/s) was recorded in October 1981 and the highest (8.9 m/s) in February

1981. Wind gusts of 20.1 m/s or greater occurred during every month. The highest observed wind speed occurred on 25 October 1981 when a peak gust of 43.4 m/s was measured. The wind direction during these events was predominantly north-northwest. Wind data for Loon are given in Table B1 and Figures B1 and B2.

Wind speed and direction at CRREL were also recorded by a GMQ11 wind set mounted roughly 4 m above the ground on an instrument shelter. Wind roses were also drawn for the CRREL data for the same time period as for the Loon data (see App. B, Fig. B3 and B4). The lowest average monthly wind speed at CRREL (1.0 m/s) was recorded in October 1981 and the highest (2.5 m/s) was recorded in April 1982. During the same 14-month period, peak hourly gusts of 6 m/s occurred every month. The predominant wind direction, as on Loon Mountain, was from the north-northwest.

Data collection was different on Mt. Washington than on the other two sites, mainly because of strong winds and continuous icing conditions.

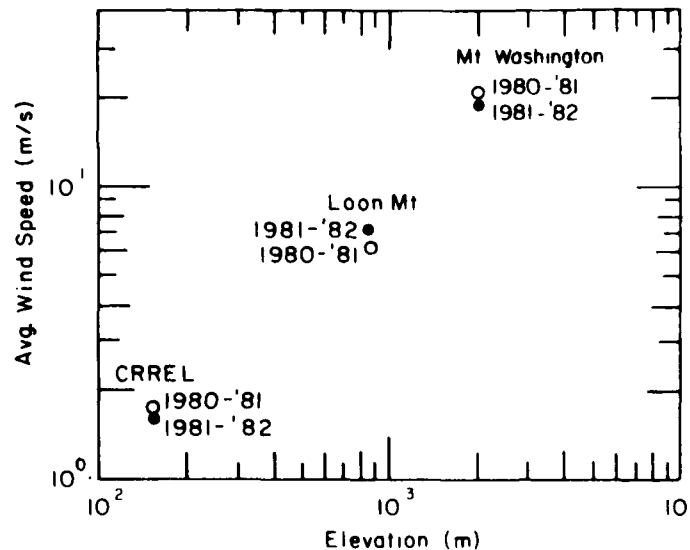


Figure 1. Average wind speed versus elevation for the three sites.

Wind speed was measured by a heated, vaned pitot-static tube. The direction of the wind, however, was obtained from a separate vaned indicator. Both instruments were mounted on metal poles 1.5 m above the observatory's 10-m tower. To collect continuous data at the observatory, sensors must be heated and have as few moving parts as possible, because of the extreme icing conditions on the summit. The lowest average monthly wind speed for the 14-month period was recorded in October 1981. The highest peak gust occurred on 4 December 1981. Peak gusts of 18 m/s or greater occurred almost every month. Prevailing winds were from the west and west-northwest.

#### Precipitation

A 20.3-cm weighing-recording rain gage was used both at Loon Mountain and the CRREL site for measuring precipitation. At the Mt. Washington site a 20.3-cm-diameter, 91.4-cm-long non-recording rain gage was used. Daily precipitation amounts are included in Table B1. At the Loon Mountain and Mt. Washington sites all the precipitation is in water or water equivalent units. At CRREL, however, in addition to water equivalent data, actual snowfall amounts were measured and recorded as snow depth on the ground. Appendix C shows accumulated precipitation amounts in water equivalent for the three sites.

The precipitation totals for the three sites were as follows:

<u>Site</u>	<u>Precipitation (mm)</u>
Loon Mt., 1980-81	645
Loon Mt., 1981-82	439.6*
CRREL, 1980-81	390.9
CRREL, 1981-82	445.5
Mt. Washington, 1980-81	1,382.9
Mt. Washington, 1981-82	1,214.5

#### Temperature and humidity

Different instruments were used at the three sites for measuring air temperature and humidity. At Loon Mountain, a recording hygrothermograph set in a Thomson shelter 1.3 m above the ground made a continuous record of the air temperature and humidity. Air temperature and humidity were measured by two different methods at CRREL. The first method used a General Eastern 650/611A (lithium chloride) probe located 10 m above the ground surface. The second method used a General Eastern 1200 (Frost Mirrors)

\*Approximately 27 days of data missing.

probe located 2 m above the ground surface. On Mt. Washington, air temperature was obtained with a Bourdon tube that recorded on a Foxboro thermograph. Humidity readings were recorded every three hours with a sling psychrometer. A summary of the monthly temperatures for the three sites from October 1980 to April 1981 and October 1981 to April 1982 is given in Table B1.

The average temperatures for the three sites were as follows:

<u>Site</u>	<u>Temperature (°C)</u>
Loon Mt., 1980-81	-4.0
Loon Mt., 1981-82	-5.0
CRREL, 1980-81	-1.0
CRREL, 1981-82	-1.8
Mt. Washington, 1980-81	-10.5
Mt. Washington, 1981-82	-10.6

Appendix D contains plots of cumulative freezing-degree-day records and running daily maximum and minimum air temperatures at the three sites for the two winter seasons. It is clear that the fastest growth in the freezing-degree-day curves corresponds to the lowest temperature in the air temperature curves.

### Icing

One icing event during the winter of 1980-81 and two events during the winter of 1981-82 were observed at the Loon Mountain site by the ski patrol personnel. Because of problems associated with visiting a semi-remote site, actual physical measurements were not made by CRREL personnel. However, on 1 October 1984 a Rosemount ice detector was installed at the Loon site to monitor and measure icing rates and intensities.

During the 1980-81 and 1981-82 winter months no detectable icing was recorded at the CRREL weather station.

The summit of Mount Washington is known for the heavy icing it receives during the winter months. Appendix E is a list of icing events that occurred during the winters of 1980-81 and 1981-82. The type of ice was not recorded for each icing event, but 90% of them produced rime icing.

### CONCLUSIONS AND RECOMMENDATIONS

We are currently establishing another site, on the summit of Cannon Mountain, New Hampshire, which has an elevation of 1231 m above sea level.

We expect Cannon to have more icing events than Loon, but fewer than Mt. Washington, based solely upon the elevation differences. Preliminary investigation seems to indicate that light to moderate icing in the White Mountains starts at or around the 900 m elevation mark.

There are significant problems associated with collecting meteorological data from unmanned remote mountaintop sites. Equipment malfunctions and power losses are two major causes for loss of data. With conventional equipment, these problems are not usually detected until the weekly visit to the site is made.

For future studies, state-of-the-art data loggers and sensors will be used to collect data at our remote sites. Coupled with telephone modems and back-up tape recorders, this equipment should minimize loss of data. By way of direct telephone line from the data logger at the site to the CRREL computer, we can receive the data each day in a variety of formats. Also, the sensors at the site can be interrogated at any time from any computer terminal at CRREL. Sensors and other electronic equipment that are not functioning properly can be rapidly detected and repaired with minimal loss of data. In addition, if our ice detectors indicate significant icing, immediate on-site visits can be made to measure the amount and type of ice.

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APPENDIX A: METEOROLOGICAL PARAMETERS MEASURED

Table A1. Explanation of meteorological parameters measured at Loon Mountain.

Parameter	Abbreviation	Explanation	Sensor	Unit of measure
Precipitation	PRECIP	Amount of liquid precipitation, evaluated for an hourly total.	Weighing type 8-in. recording rain gage	Millimeters (to nearest 0.01 mm)
Dry bulb temperature	DB TEMP	Ambient temperature, evaluated on the hour.	Recording hygrothermograph	Degrees C (to nearest 0.5 degree)
Relative humidity	RH	Relative humidity of ambient temperature, evaluated on the hour.	Recording hygrothermograph	Percent
Wind speed	WS	Wind speed and direction measured approximately 20 meters above surface, evaluated for an hourly average, peak gusts with time and direction on a daily and monthly basis, and prevailing wind direction for the day.	GMQ11 wind set	Degrees with reference to true north (to nearest 10 degrees)
Wind direction	WD		GMQ11 wind set	Miles per hour (mph)

Table A2. Explanation of meteorological parameters measured at CRREL.

Parameter	Abbreviation	Explanation	Sensor	Unit of measure
Station pressure	STA PRESS	Atmospheric pressure at site, evaluated as max and min for the day.	Recording microbarograph	Millibars (to nearest 0.1 mb)
Precipitation	PRECIP	Amount of liquid precipitation, evaluated for a daily total.	Weighing type 8-in. recording rain gage	Millimeters (to nearest 0.1 mm)
Dry bulb temperature	DB TEMP	Ambient temperature, evaluated as daily max, min and mean.	General Eastern 650/611 & 1200 m/s	Degrees C (to nearest 0.1 degree)
Relative humidity	RH	Relative humidity of ambient temperature, evaluated as daily max, min and mean.	General Eastern 650/611 & 120 m/s	Percent
∞ Snow depth	SNOW DEP	Amount of snow accumulation, measured when site was visited.	Snow measuring stake	Centimeters (to nearest 0.5 cm)
Wind speed	WS	Wind speed and direction measured 4 meters above surface, evaluated for an hourly average, peak gusts with time and direction on a daily and monthly basis, and prevailing wind direction for the day.	GMQ11 wind set WS101 Hot crosswire 200	Miles per hour (mph) Meters per second (m/s) Meters per second (m/s)
Wind direction	WD		GMQ11 wind set	In degrees with reference to true north (to nearest 10 degrees) except peak wind when WS101 and 200 were used.
Vertical Eppley radiation	VERT	Total incoming solar radiation falling on a horizontal plane, evaluated for an hourly average.	Eppley pyrhelimeter	W hr/m <sup>2</sup>
Inverted Eppley radiation	INV	Reflected incoming solar radiation falling on a horizontal plane, evaluated for an hourly average	Eppley pyrhelimeter	W hr/m <sup>2</sup>

Table A3. Explanation of meteorological parameters measured at Mt. Washington.

Parameter	Abbreviation	Explanation	Sensor	Unit of measure
Precipitation	PRECIP	Amount of liquid precipitation, evaluated at 3-hr intervals.	8-inch-diameter, 3-foot-long nonrecording rain gage	Inches (to nearest 0.01 in.)
Temperature	TEMP	Ambient temperature, evaluated on the hour.	Foxboro thermograph	Degrees F ( $\pm 2$ degrees)
Relative humidity	RH	Relative humidity of ambient temperature, evaluated every 3 hr.	Sling psychrometer	Percent
Snow depth	SNOW DEP	Amount of snow accumulation.	Estimated	Inches (to nearest inch)
Wind speed	WS	Wind speed and direction measured approximately 10 meters above surface, evaluated for an hourly average, peak gusts with time and direction on a daily and monthly basis, and prevailing wind direction for the day.	Heated vane pitot static tube	Miles per hour (mph)
Wind direction	WD		Separate heated wind vane	Degrees with reference to true north ( $\pm 5$ degrees)

APPENDIX B: MONTHLY METEOROLOGICAL SUMMARIES AND WIND ROSES

Table B1. Monthly meteorological summaries.

OCTOBER 1980

LOON

Date	Temperature (°C)		Rel. Hum. %		Dew Point (°C) Mean	Speed	Wind (mph)		Dir.	Time	Precipitations (mm) Amount	
	Max	Min	Max	Min			Dir.	Peak				
1	14.5	8.0	98	77	10.5	I*	I	I	I	I		
2	11.0	6.5	100	92	8.5	I	I	I	I	I	12.0	
3	11.5	6.5	100	95	9.0	I	I	I	I	I	10.5	
4	8.0	3.5	100	100	5.5	I	I	I	I	I	15.0	
5	9.0	3.5	100	73	4.0	I	I	I	I	I		
6	10.0	2.0	100	57	3.5	I	I	I	I	I		
7	8.0	2.0	100	71	2.5	8.5	190	14.5	180	2215		
8	11.0	3.0	100	71	5.0	16.5	190	35.0	210	2328		
9	7.0	-3.5	92	62	7.7	14.0	330	38.0	230	0011		
10	10.0	-3.5	82	35	5.6	8.5	300	24.0	360	0223		
11	8.0	3.5	100	49	5.5	9.5	180	27.0	180	0854		
12	6.5	0.0	100	100	3.0	9.5	300	30.0	330	1932	10.2	
13	0.0	-3.0	100	84	-2.5	14.0	300	34.0	300	0251	6.50	
14	-0.5	-4.0	100	68	-4.5	17.0	330	42.0	330	0841		
15	6.5	-3.5	90	46	4.0	7.0	270	28.0	010	0243		
16	7.5	1.0	100	60	1.5	10.5	180	19.0	180	1147		
17	13.0	5.5	100	100	9.0	9.5	180	30.0	180	2309		
18	14.0	9.5	100	100	11.5	16.0	200	34.0	190	0217	16.6	
19	9.5	3.0	100	64	3.5	I	I	I	I	I		
20	5.0	-3.5	100	71	0.5	13.0	270	35.0	240	1643	.8	
21	1.5	-4.0	100	100	-1.5	12.5	220	23.0	210	2222		
22	-2.0	-4.5	100	60	-4.5	13.5	320	36.0	300	0605		
23	6.0	-4.0	100	77	-5.0	13.0	350	44.0	350	0738		
24	8.0	-2.0	100	55	-3.5	11.0	180	21.0	320	0105		
25	7.0	-2.5	100	82	2.0	19.5	090	97.0	050	1942	43.0	
26	-1.0	-6.5	I	I	I	26.0	240	60.0	220	0837	8.9	
27	-1.5	-7.5	100	87	-4.5	14.5	270	38.0	300	0030		
28	-2.0	-7.5	90	61	-8.0	10.5	210	28.0	330	2353		
29	-2.0	-5.5	93	74	-6.0	13.5	320	59.0	310	0920		
30	3.0	-4.0	86	56	-5.5	10.0	330	32.0	320	0105		
31	0.0	-4.5	100	62	-5.0	14.5	230	40.0	230	1947		
Monthly Ave =	2.8				1.0	13.0	290	97.0	050	1947	123.5	Total
Max =	14.5		100	87								
Min =	-7.5		35									

\* Conversion mph to m/s. mph x .447

I\* - Incomplete data



NOVEMBER 1980

Table B1 (cont'd).

LOON

Date	Temperature (°C)			Rel. Hum. %			Dew Point (°C) Mean	Speed	Wind (mph)†		Dir.	Time	Precipitation (mm) Amount	
	Max	Min	Mean	Max	Min	Mean			Dir.	Peak				
1	-4.5	-9.0	-7.0	100	64	82	-10.5	13.5	300	34.0	330	0307		
2	I*	I	I	I	I	I	I	14.0	320	35.0	340	1918		
3	I	I	I	I	I	I	I	7.0	340	19.0	360	0007		
4	4.0	-2.0	2.0	100	78	64	-6.0	**	**	**	**	**		
5	3.0	-8.0	-2.5	100	I	I	I	**	**	**	**	**		
6	-2.5	-9.5	-6.0	98	I	I	I	**	**	**	**	**		
7	2.0	-3.0	-0.5	100	84	98	-1.0	**	**	**	**	**	4.50	
8	3.0	-9.0	-3.0	100	60	84	-5.5	**	**	**	**	**	5.70	
9	1.5	-9.0	-4.0	100	20	68	-9.0	**	**	**	**	**	3.50	
10	1.0	-8.0	-3.5	100	91	96	-4.0	**	**	**	**	**	5.30	
11	-7.0	-8.0	-7.5	100	100	100	-7.5	**	**	**	**	**		
12	-6.0	-7.5	-7.0	100	100	100	-7.0	**	**	**	**	**		
13	-1.5	-6.0	-4.0	100	46	90	-5.5	**	**	**	**	**	Total	
14	0.5	-5.5	-2.5	100	76	92	-3.5	**	**	**	**	**	precip	
15	-3.5	-8.5	-6.0	96	61	76	-9.5	**	**	**	**	**	from	
16	-8.0	-11.5	-10.0	93	70	86	-12.0	**	**	**	**	**	11-19 Nov	
17	-1.0	-11.5	-6.5	100	37	65	-11.5	**	**	**	**	**	22.8	
18	-3.0	-7.5	-5.0	100	94	99	-5.0	**	**	**	**	**		
19	-7.0	-10.0	-8.5	100	70	92	-9.5	**	**	**	**	**		
20	-0.5	-6.5	-3.5	100	69	86	-5.5	**	**	**	**	**		
21	-1.5	-4.0	-3.0	100	62	81	-6.1	**	**	**	**	**		
22	-2.0	-4.5	-3.0	100	40	87	-5.0	**	**	**	**	**		
23	6.0	-2.0	2.0	42	13	24	-16.5	**	**	**	**	**		
24	4.0	0.0	2.0	100	20	73	-2.5	**	**	**	**	**	31.0	
25	4.0	-6.0	-1.0	100	100	100	-1.0	**	**	**	**	**	11.0	
26	5.0	-10.0	-7.5	100	38	74	-11.5	**	**	**	**	**		
27	3.0	-10.5	-4.0	80	12	33	-18.0	**	**	**	**	**		
28	3.0	-4.5	-1.0	100	23	82	-3.5	**	**	**	**	**	22.30	
29	3.0	-4.0	-0.5	100	78	86	-2.5	**	**	**	**	**		
30	-3.0	-5.5	-4.0	98	76	88	-5.5	**	**	**	**	**		
31														
Monthly Ave =						81	-7.0						106.10	Total
Max =	6.0			100		12								
Min =		-11.5	-10.0											

Monthly

Ave =

Max =

Min =

† - Conversion mph to m/s, mph x .447

I\* - Incomplete data

\*\* - Data missing due to damaged wind sensor

DECEMBER 1980

LOON

Table B1 (cont'd).

Date	Temperature (°C)		Rel. Hum. %		Dew Point (°C) Mean	Speed	Dir.	Wind (mph) <sup>†</sup> Peak	Dir.	Time	Precipitation (mm) Amount	
	Max	Min	Max	Min								
1	2.0	-3.5	96	68	-4.5	**	**	**	**	**		
2	4.5	-0.5	100	72	-0.5	**	**	**	**	**		
3	2.0	-15.5	100	90	-7.5	**	**	**	**	**		
4	-12.5	-18.0	90	58	-20.0	**	**	**	**	**		
5	-8.5	-17.0	90	66	-15.0	**	**	**	**	**		
6	0.0	-11.5	100	73	-8.0	**	**	**	**	**	1.50	
7	4.5	-2.5	97	22	-8.0	**	**	**	**	**	.80	
8	5.5	0.0	100	74	2.0	**	**	**	**	**		
9	0.0	-8.0	100	70	-6.5	**	**	**	**	**	.70	
10	-3.5	-10.0	100	81	-8.0	10.5	300	36.0	280	2354		
11	-10.0	-21.5	95	54	-20.5	12.0	360	46.0	360	0034		
12	-10.0	-16.0	98	66	-15.0	11.0	240	23.0	210	2112	3.70	
13	-3.0	-17.0	100	80	-12.0	13.0	360	32.0	290	0647	.50	
14	-11.5	-23.5	92	62	-20.0	13.0	330	46.0	330	2005	2.40	
15	-12.5	-25.5	100	70	-21.5	8.5	210	32.0	340	0037	.30	
16	-3.5	-12.5	100	98	-8.0	7.5	120	22.0	110	1730	7.70	
17	-7.0	-17.5	100	26	-17.0	9.0	320	28.0	010	1118		
18	-6.5	-14.5	100	34	-14.0	13.5	340	38.0	010	2323		
19	-6.0	-24.0	100	70	-17.0	12.0	360	37.0	020	0057	3.70	
20	-18.5	-24.0	76	66	-25.0	10.0	320	24.0	020	1232	1.10	
21	-14.0	-21.5	82	66	-21.0	11.0	330	32.0	310	1050		
22	-9.0	-19.0	100	61	-17.0	9.5	300	24.0	300	0910		
23	-5.0	-12.0	100	90	-8.5	10.5	210	24.0	210	0812		
24	-3.0	-20.0	100	68	-13.0	8.0	240	24.0	320	2348		
25	-20.0	-34.5	87	70	-30.0	17.0	020	44.0	360	0757	5.20	
26	-12.0	-27.0	89	58	-22.5	9.5	220	26.0	210	1635	.50	
27	-7.0	-14.5	88	61	-14.5	5.0	170	10.0	210	1947		
28	0.0	-12.0	100	57	-7.5	12.0	220	26.0	210	1537	.80	
29	4.0	0.0	100	100	2.0	12.0	240	27.0	250	0227		
30	2.0	-18.0	100	71	-10.0	14.5	040	39.0	060	0911		
31	-8.0	-20.0	80	45	-18.5	14.0	020	47.0	010	0517		
Monthly												28.9
Ave		-10.5		82	-13.0	11.4	330	47.0	010	0517		
Max	5.5		100									
Min		-34.5		22								

† - Conversion mph to m/s, mph x .447  
 \*\* - Data missing due to damaged wind sensor

JANUARY 1981

LOON

Table B1 (cont'd).

Date	Temperature (°C)		Rel. Hum. Max Min	% Mean	Dew Point (°C) Mean	Speed	Wind (mph) <sup>+</sup>		Time	Precipitation (mm) Amount
	Max	Min					Dir.	Peak		
1	-6.5	-10.5	99	44	76	8.5	210	19.0	220	1134
2	-4.5	-24.5	98	70	88	9.0	340	36.0	010	2137
3	-18.5	-27.5	79	54	64	10.0	350	33.0	330	0204
4	-23.0	-29.0	80	65	70	14.0	330	55.0	360	2244
5	-12.0	-26.0	80	55	73	15.5	360	49.0	010	1127
6	-9.0	-17.0	96	48	69	10.5	210	18.0	I*	2218
7	-4.9	-18.5	100	70	94	11.5	300	30.0	310	2240
8	-18.5	-24.0	85	69	77	13.5	350	39.0	340	0841
9	-14.5	-22.0	78	58	71	8.0	230	25.0	360	0201
10	-11.0	-25.0	88	61	69	9.5	030	40.0	020	2335
11	-21.0	-27.0	80	66	76	15.5	320	46.0	010	0028
12	I	I	I	I	I	7.5	360	24.0	010	0434
13	-12.5	-19.5	68	33	47	12.0	030	26.0	060	0949
14	-10.0	-19.5	62	35	50	10.0	330	25.0	360	0445
15	-5.0	-14.5	78	52	64	10.0	310	16.0	200	0717
16	-5.5	-11.5	100	57	76	9.0	230	16.0	230	1304
17	-10.0	-20.0	100	80	92	11.0	030	31.0	010	1855
18	-9.5	-20.0	100	74	87	19.0	010	65.0	360	2255
19	-3.0	-9.0	100	62	83	23.0	360	60.0	360	0602
20	-4.0	-16.5	99	44	66	17.5	020	60.0	010	0211
21	-5.5	-14.5	48	20	37	6.0	310	23.0	210	2257
22	-2.7	-8.0	100	26	64	14.0	220	33.0	210	0321
23	-5.5	-9.5	100	74	90	16.0	020	36.0	020	1107
24	-5.0	-11.5	100	65	86	13.0	360	28.0	010	2231
25	-3.5	-13.0	98	44	70	14.0	230	39.0	020	0353
26	2.0	-5.0	88	56	68	17.5	240	34.0	240	2342
27	1.0	-4.0	86	74	87	17.0	270	34.0	270	1754
28	-4.0	-11.5	100	44	64	11.0	320	29.0	300	0247
29	-8.5	-15.5	96	43	73	14.0	030	45.0	020	2022
30	-15.0	-19.5	94	70	82	19.0	330	46.0	010	0820
31	-2.5	-18.0	78	14	38	13.5	360	34.0	040	0853
Monthly										
Ave					72	13.0	010	65.0	360	12.20
Max	2.0	-29.0	100	14						
Min		-26.0								

Conversion mph to m/s, mph x .447

I\* - Incomplete data

LOON

Table B1 (cont'd).

FEBRUARY 1981

Date	Temperature (C)		Rel. Hum. %		Dew Point (C) Mean	Speed	Wind (mph) +		Time	Precipitation (mm) Amount	
	Max	Min	Max	Min			Dir.	Peak			Dir.
1	-0.5	-4.0	100	14	-13.0	21.0	230	51.0	220	1822	5.00
2	I*	I	I	I	I	29.0	220	84.0	210	1439	57.00
3	6.0	-13.0	100	68	-5.5	14.0	320	34.0	300	0215	
4	-11.0	-19.5	82	58	-19.0	9.0	260	20.0	270	1328	
5	-13.5	-19.0	83	58	-19.5	11.0	330	29.0	310	1512	
6	-12.0	-18.0	72	36	-21.5	17.0	240	30.0	220	1504	
7	-5.0	-12.0	97	62	-11.0	15.0	260	36.0	220	2124	
8	-2.0	-7.0	100	52	-8.0	11.0	150	29.0	110	1132	
9	-4.0	-12.0	100	80	-8.0	19.0	320	50.0	330	0258	
10	-4.0	-12.5	90	53	-12.0	16.0	220	30.0	230	1217	
11	9.5	-6.5	100	76	1.5	28.0	200	90.0	200	1733	56.20
12	2.0	-18.5	100	40	-15.0	17.0	350	I*	I	I	.40
13	-7.5	-19.0	64	34	-21.5	13.0	200	25.0	230	1804	
14	-3.0	-13.0	87	36	-13.5	15.0	260	40.0	010	1852	
15	-3.0	-11.5	88	39	-18.5	16.0	180	27.0	230	1948	
16	5.5	-5.0	75	40	-8.5	19.0	220	42.0	250	2353	
17	7.5	2.5	100	54	2.0	20.0	260	48.0	250	0026	
18	10.0	3.0	100	50	3.5	15.0	270	25.0	230	2123	
19	9.0	4.5	100	74	5.0	14.0	200	31.0	210	2333	
20	7.0	5.5	100	100	6.0	20.0	160	57.0	140	2037	28.00
21	7.5	4.0	100	100	5.5	17.0	140	55.0	130	0031	7.00
22	11.0	-1.0	100	42	3.0	10.0	140	22.0	180	0128	
23	11.0	-1.0	100	16	-10.0	13.0	180	36.0	150	1023	28.20
24	I	I	I	I	I	19.0	130	49.0	150	0654	25.70
25	I	I	I	I	I	20.0	080	46.0	080	0955	4.70
26	I	I	I	I	I	20.0	060	41.0	070	2351	
27	-1.0	-4.5	100	56	-5.0	17.0	190	40.0	050	0648	3.60
28											
29											
30											
31											
Monthly Ave =											
Max =	11.0	-19.5	100	14	-8.0	17.0	210	90.0	200	1733	215.80
Min =											
* - Conversion mph to m/s, mph x .447											
I* - Incomplete data											
											Total

MARCH 1981

LOON

Table B1 (cont'd).

Date	Temperature (°C)		Rel. Hum. %		Dew Point (°C)	Speed	Wind (mph) <sup>+</sup>		Time	Precipitation (mm) Amount
	Max	Min	Max	Min			Dir.	Peak		
1	-2.0	-3.5	100	86	-3.5	21.0	350	48.0	1017	2.00
2	1.0	-5.5	100	70	-4.5	15.0	300	29.0	1604	
3	-5.5	-13.5	94	76	-12.0	21.0	360	46.0	1103	
4	-4.5	-13.5	82	61	-13.0	15.0	330	48.0	0032	
5	-1.5	-10.5	77	56	-11.5	14.0	060	30.0	0005	1.00
6	-1.5	-5.4	100	67	-5.5	14.0	050	28.0	0254	2.80
7	-0.5	-3.0	100	42	-2.5	13.0	060	24.0	0715	
8	-2.0	-4.5	92	84	-4.5	12.0	020	29.0	2304	
9	I*	I	I	I	I	12.0	020	30.0	2336	.30
10	-2.0	-6.0	96	79	-5.5	17.0	340	33.0	1819	1.20
11	-2.0	-5.5	100	78	-6.0	9.0	330	26.0	2204	
12	-2.0	-7.0	88	66	-7.5	13.0	290	25.0	2254	
13	-0.5	-7.5	100	66	-6.0	18.0	250	43.0	0218	.50
14	0.0	-11.0	100	68	-9.0	24.0	300	73.0	1950	
15	-1.0	-13.5	93	68	-10.0	22.0	240	61.0	0001	
16	1.0	-5.0	100	59	-6.0	18.0	260	39.0	1157	
17	-6.0	-14.0	78	45	-17.0	22.0	290	52.0	1427	
18	-6.5	-14.5	78	43	-17.0	24.0	270	57.0	0811	
19	-3.0	-13.5	74	41	-15.0	12.0	310	30.0	0121	
20	-5.0	-8.5	100	54	-10.0	7.0	020	26.0	0821	5.00
21	-1.5	-5.5	99	62	-5.5	13.0	340	32.0	1123	1.50
22	0.5	-5.0	69	46	-10.0	14.0	190	21.0	1728	
23	3.0	-5.0	64	40	-9.0	13.0	300	22.0	0036	
24	1.0	-1.5	87	54	-5.0	14.0	350	26.0	0653	
25	1.5	-3.5	90	60	-5.0	14.0	170	25.0	1203	
26	4.5	-3.5	92	32	-8.5	13.0	I	25.0	I	
27	0.5	-4.0	100	50	-4.5	17.0	300	51.0	1850	14.00
28	3.0	-5.0	70	35	-11.0	20.0	280	32.0	2034	
29	13.0	2.5	94	36	-1.0	21.0	180	54.0	0857	
30	13.0	8.0	84	46	5.0	21.0	130	40.0	1414	
31	8.0	1.0	100	90	4.5	16.0	300	52.0	0957	2.50
Monthly Ave						16.0	350	73.0	1950	30.80
Max	13.0		100		-7.0					
Min		-14.5		32						

Monthly Ave = 13.0 Max = 100 Min = 32

+ - Conversion mph to m/s, mph x .447  
I\* - Incomplete data

APRIL 1981

Table B1 (cont'd).

LOON

Date	Temperature (°C)		Rel. Hum. %		Dew Point (°C)	Speed	Wind (mph)		Dir.	Time	Precipitation (mm)
	Max	Min	Max	Min			Dir.	Peak			
1	5.5	0.5	100	72	2.0	13.0	150	35.0	130	0856	6.30
2	2.0	-0.5	100	68	-1.5	24.0	I*	56.0	I	0834	6.00
3	17.0	-1.0	70	32	-3.0	20.0	140	47.0	I	0017	
4	13.5	9.5	92	36	3.5	22.0	140	40.0	150	0727	
5	10.0	3.0	100	84	6.0	19.0	150	32.0	140	1005	19.90
6	3.0	-4.5	93	52	-4.0	18.0	270	53.0	270	2238	
7	I	I	I	I	I	20.0	**	58.0	**	0429	3.70
8	I	I	I	I	I	17.0	150	34.0	160	1600	
9	12.5	-0.5	100	64	3.5	18.0	150	46.0	160	1713	
10	11.0	-2.0	92	30	-5.0	14.0	**	51.0	**	0200	12.40
11	6.0	-2.0	100	52	0.0	14.0	**	43.0	**	2152	
12	6.0	-5.0	92	38	-7.5	11.0	**	34.0	**	0734	
13	9.0	-4.5	70	35	-8.0	10.0	**	27.0	**	2051	21.60
14	2.0	-8.0	100	46	-4.5	15.0	**	69.0	**	2252	
15	-3.5	-12.0	87	44	-13.0	16.0	**	47.0	**	1755	
16	3.0	-12.0	95	58	-10.0	8.0	**	23.0	**	0932	1.90
17	8.0	-1.0	100	46	1.0	14.0	**	26.0	**	2007	10.90
18	9.0	-3.0	100	71	2.5	14.0	**	47.0	**	1034	
19	9.0	-6.0	98	33	-7.0	10.0	**	52.0	**	0114	3.70
20	3.5	-7.5	100	48	-5.0	7.0	**	38.0	**	1653	0.60
21	-5.5	-12.0	99	61	-12.5	16.0	**	42.0	**	0809	
22	3.0	-12.0	64	40	-13.0	16.0	**	46.0	**	0344	
23	10.0	-4.0	100	30	-4.5	6.0	**	31.0	**	0004	10.90
24	4.0	1.5	100	100	3.0	7.0	**	30.0	**	1515	5.50
25	1.5	0.0	100	100	0.5	6.0	**	16.0	**	1229	3.30
26	12.5	0.5	100	48	2.0	11.0	**	22.0	**	2341	
27	15.5	2.0	96	41	2.5	10.0	**	32.0	**	0757	
28	15.5	4.0	87	42	3.0	3.0	**	20.0	**	0254	
29	13.0	4.0	100	83	8.0	6.0	**	26.0	**	2057	16.50
30	14.0	2.5	99	42	2.5		**	17.0	**	1948	
31											
Monthly Ave						13.0	**	69.0	**	2252	123.20
Max	17.0	12.0	100	100	-2.0						
Min		-12.0		30							

\* - Conversion mph to m/s, mph x .447  
 I\* - Incomplete data  
 \*\* - Wind dir missing due to recorder malfunction

Table B1 (cont'd).

LOON

OCTOBER 1981

Date	Temperature (°C)		Rel. Hum. %		Dew Point (°C) Mean	Speed	Wind (mph) †		Time	Precipitation (mm) Amount	
	Max	Min	Max	Min			Dir.	Peak			
1	6.5	- 2.0	92	52	- 2.5	3.5	180	12.4	0035		
2	11.0	1.5	100	55	4.5	2.5	180	6.2	1425	3.0	
3	3.0	1.5	100	98	2.0	4.5	320	12.4	0710	4.0	
4	6.5	1.0	100	64	1.5	4.5	270	13.4	0050	2.0	
5	9.0	2.0	98	53	1.5	3.5	270	8.2	1930		
6	7.0	2.0	100	40	1.5	2.5	180	8.2	2325	9.0	
7	4.0	0.0	99	82	1.0	4.5	240	14.4	2245	1.0	
8	1.5	0.0	99	98	0.5	6.0	360	18.4	0435	3.5	
9	2.0	- 1.0	100	88	0.5	4.6	360	12.4	0137	1.0	
10	4.5	- 1.5	94	55	2.0	3.0	360	8.8	1045	0.5	
11	4.5	- 2.5	92	56	1.0	2.3	360	7.2	1155		
12	7.0	- 2.5	86	44	3.0	2.0	080	6.2	0205		
13	11.0	1.0	66	34	4.0	C	C	5.7	060		
14	13.0	3.0	62	29	3.0	3.0	170	6.7	190		
15	13.0	4.0	84	31	0.5	4.0	180	9.8	180		
16	8.0	1.0	100	56	2.0	3.5	360	14.9	1755		
17	8.0	- 1.0	100	44	2.5	4.0	030	11.3	020		
18	5.0	2.0	100	56	1.0	6.5	170	15.4	0830	45.5	
19	3.5	- 3.5	100	63	2.5	5.0	210	13.4	0515	3.5	
20	3.5	- 4.5	94	52	6.0	4.5	180	13.9	2355		
21	8.0	3.0	77	46	1.5	6.0	180	15.9	0125		
22	8.5	3.5	95	53	1.0	6.0	180	15.9	180		
23	7.5	- 2.0	96	95	2.5	6.0	180	15.4	0212	37.0	
24	0.0	- 4.0	96	55	5.5	2.0	350	12.4	0045	3.5	
25	0.0	- 4.0	96	64	5.0	2.8	150	8.2	0355		
26	I*	I	I	I	I	2.5	180	10.8	1645		
27	I	I	I	I	I	4.0	170	10.3	180		
28	9.0	0.5	99	92	4.5	5.4	020	16.4	1313		
29	5.0	- 0.5	100	70	1.0	2.5	050	8.2	0105		
30	8.0	- 1.0	92	36	3.5	1.5	120	6.2	2045		
31	9.5	0.5	99	33	2.0	5.5	180	8.2	170		
Monthly Ave =										113.5	Total
Max =	13.0		100		- 1.0	4.0	180	18.4	330		
Min =		- 4.5									

† - Conversion mph to m/s, mph x .447  
I\* - Incomplete data

Table B1 (cont'd).

NOVEMBER 1981

Date	Temperature (°C)		Rel. Hum. %		Dew Point (°C)	Speed	Wind (mph) +		Time	Precipitation (mm)
	Max	Min	Max	Min			Dir.	Peak		
1	9.0	2.0	99	56	3.0	8.5	180	26	2132	
2	13.5	2.0	97	51	7.5	12.0	340	42	2135	
3	4.0	-1.0	79	35	-6.5	11.5	340	42	0018	
4	6.0	-2.0	70	37	-6.0	8.5	320	26	0150	
5	9.0	-1.0	82	39	-3.0	8.0	180	18	2000	
6	5.5	0.5	100	72	-2.0	8.0	180	26	1248	12.0
7	0.5	-5.5	96	78	-4.0	9.0	350	30	1652	5.0
8	3.0	-1.5	96	33	-6.5	8.0	330	29	0400	6.0
9	5.5	-9.5	99	59	-5.5	8.0	240	26	1810	
10	-0.5	-9.0	100	40	-9.5	7.5	190	20	0328	
11	-2.0	-7.0	100	77	-5.5	10.0	190	25	2150	
12	-4.5	-8.5	86	33	-12.0	9.0	360	30	0245	
13	6.0	-8.0	59	14	-17.0	7.5	050	16	1225	
14	8.5	-0.5	70	40	-4.5	5.0	070	24	2316	
15	7.0	4.0	100	43	0.0	13.0	060	32	0921	0.5
16	7.5	4.0	98	93	5.5	7.5	050	25	0138	17.0
17	5.5	1.0	98	92	3.0	5.5	180	16	1105	3.5
18	1.0	-3.5	96	92	-2.0	7.0	330	24	1540	2.5
19	-3.0	-4.0	96	92	-4.5	6.5	340	28	0630	5.5
20	-1.5	-4.5	96	88	-4.0	10.0	080	36	1425	13.0
21	-1.5	-5.0	97	91	-4.5	7.5	280	31	1445	2.5
22	-5.0	-7.0	92	80	-8.5	8.5	310	28	0025	1.5
23	6.0	-9.5	90	81	-10.0	5.5	330	16	2115	
24	-3.0	-10.0	90	57	-9.5	5.0	330	14	2158	
25	-5.5	-10.5	83	58	-11.5	6.5	050	24	1644	
26	-1.0	-11.0	81	40	-12.0	4.5	050	21	2346	3.5
27	-1.5	-5.0	86	64	-7.0	6.5	180	30	1706	1.5
28	-3.0	-8.5	82	64	-10.0	9.5	260	32	2152	3.0
29	-7.0	-9.5	80	72	-12.0	12.0	340	38	1100	2.0
30	-6.5	-10.5	78	56	-13.0	11.0	360	36	0100	
31										
Monthly										
Ave =										79.0
Max =	13.5	-2.0	100	77	-5.5	8.0	340	42	*	**
Min =	-11.0	-8.5	77							

Conversion mph to m/s, mph x .447  
 \*\*\* 04903509  
 0492135.03/0018



DECEMBER 1981

LOON

Table B1 (cont'd).

Date	Temperature (°C)		Rel. Hum. %		Dew Point (°C)	Speed	Wind (mph) †		Time	Precipitation (mm)		
	Max	Min	Max	Min			Dir.	Peak			Dir.	
1	-3.0	-10.0	100	42	-10.0	6.0	180	28.0	050	0205	3.0	
2	-2.0	-3.0	100	78	-0.5	3.0	270	14.0	190	1322	11.0	
3	-1.0	-4.0	100	88	-2.5	4.0	360	24.0	360	1905		
4	-1.0	-6.0	100	58	-6.0	5.0	240	24.0	325	0032		
5	-2.5	-6.0	100	64	-7.0	7.5	040	36.0	050	2128		
6	-5.5	-9.5	100	86	-7.5	15.0	350	50.0	360	1705	8.5	
7	-4.0	-9.5	100	86	-8.5	11.5	330	38.0	340	0242	14.0	
8	-1.5	-9.5	100	52	-7.5	4.0	040	12.0	040	1945		
9	-7.5	-10.0	100	87	-9.0	10.0	330	32.0	330	2112	1.5	
10	-6.0	-11.0	100	77	-9.0	8.0	330	27.0	330	0412		
11	-3.0	-8.0	100	78	-6.5	7.5	030	29.0	030	1715		
12	-4.0	-11.0	100	72	-8.0	6.0	030	20.0	030	1025		
13	-2.5	-12.0	100	44	-11.0	5.5	050	20.0	340	2153		
14	-3.5	-10.0	100	67	-7.5	3.5	330	24.0	340	0227	1.0	
15	-0.5	-6.5	100	86	-4.0	5.0	060	24.0	050	2347	11.0	
16	-2.5	-9.0	100	76	-7.0	12.0	360	46.0	360	1238	15.0	
17	-5.0	-11.0	88	58	-12.5	4.5	270	27.0	300	0628		
18	-9.0	-12.0	99	77	-11.5	5.0	060	15.0	050	2338	4.5	
19	-11.0	-16.5	94	71	-15.5	5.5	340	21.0	340	1033	1.5	
20	-13.0	-17.0	92	74	-17.0	8.0	340	28.0	360	1145	0.5	
21	I*	I	I	I	I	8.0	180	24.0	350	0430		
22	I	I	100	92	I	6.5	180	20.0	180	0310		
23	-2.5	-6.0	100	86	-4.5	7.0	360	32.0	350	1942	17.5	
24	-2.0	-6.0	90	60	-7.5	8.5	28.0	28.0	030	0100		
25	-5.5	-8.0	90	62	-10.5	7.0	240	22.0	240	2140		
26	-5.0	-7.0	89	72	-9.0	4.5	090	21.0	240	0145		
27	-6.0	-8.0	100	84	-7.5	11.5	080	34.0	090	1720	4.5	
28	-2.5	-6.5	100	88	-4.5	3.0	180	16.0	080	0125	2.5	
29	-4.0	-11.0	100	90	-8.0	8.5	330	38.0	330	1905	7.5	
30	-8.5	-13.0	90	62	-14.0	9.0	330	26.0	330	0305	I	
31	-4.5	-9.5	92	65	-9.5	3.5	I	22.0	I	2323	I	
Monthly Ave											103.5	Total
Max	2.0	-0.5	100	89	-9.0	7.0	360	50.0	360	1705		
Min	-17.0	-15.0	42									

† Conversion mph to m/s, mph x .447  
 I\* - Incomplete data

Table B1 (cont'd).

LOON

JANUARY 1982

Date	Temperature (°C)		Rel. Hum. %		Dew Point (°C) Mean	Speed	Dir.	Wind (mph) †		Time	Precipitation (mm) Amount	
	Max	Min	Max	Min				Peak	Dir.			
1	-3.0	-8.0	100	84	-6.0	4.0	I*	22.0	I	0840	I	
2	-8.5	-15.0	95	42	-17.0	14.0	I	50.0	I	1155	I	
3	-5.0	-12.0	82	34	-18.5	5.0	I	22.0	I	1755	I	
4	2.0	-8.0	100	72	-3.0	7.5	I	34.0	I	2135	I	
5	-1.0	-14.0	100	70	-9.0	11.5	330	34.0	310	1410	I	
6	-3.5	-14.0	100	51	-11.5	8.0	190	26.0	310	0250	I	
7	-3.5	-14.0	100	79	-9.5	5.5	190	26.0	360	1700	I	
8	-14.0	-21.0	100	72	-19.5	6.5	330	28.0	330	0410	I	
9	-12.0	-20.5	100	69	-17.5	6.0	340	28.0	I	0228	I	
10	I	I	100	I	I	5.5	320	22.0	210	2030	1.0	
11	I	I	I	I	I	7.0	180	20.0	180	0120	0.5	
12	-16.5	-19.0	100	40	-21.0	8.5	330	34.0	330	1620	I	
13	-11.0	-13.5	100	100	-10.0	3.0	050	12.0	060	0115	3.0	
14	-6.0	-13.5	100	84	-10.0	8.0	050	28.0	070	0932	1.0	
15	-11.0	-18.0	100	58	-16.0	9.0	330	32.0	350	0838	1.5	
16	-10.5	-18.0	100	58	-16.0	6.5	180	32.0	290	2345	2.5	
17	-14.5	-27.5	100	72	-22.5	10.0	340	34.0	310	1335	2.0	
18	-18.5	-27.0	96	70	-25.0	7.5	330	40.0	350	2348	I	
19	-11.0	-20.5	96	39	-21.0	10.0	350	36.0	340	0300	0.5	
20	-7.0	-21.5	100	75	-15.5	8.5	290	20.0	I	2015	2.0	
21	-14.5	-24.0	96	51	-23.0	6.0	030	20.0	050	0521	I	
22	-15.0	-25.0	86	40	-26.5	4.5	040	22.0	090	1641	I	
23	-5.0	-17.5	100	31	-14.5	4.5	090	27.0	360	0611	14.5	
24	-4.0	-17.5	100	68	-12.5	7.5	250	27.0	230	1822	3.0	
25	-16.5	-23.0	100	64	-22.0	7.0	280	29.0	280	1614	1.5	
26	-17.0	-24.0	94	46	-24.5	7.5	340	25.0	340	1737	I	
27	-10.5	-24.5	63	28	-26.5	4.5	040	14.0	050	0420	I	
28	-6.0	-13.0	77	20	-20.0	11.0	170	32.0	220	1943	I	
29	-6.0	-15.0	73	47	-17.5	10.0	280	40.0	360	1305	I	
30	-4.0	-13.5	83	33	-15.5	9.0	190	33.0	180	1207	I	
31	-4.0	-12.0	82	38	-13.0	8.0	080	28.0	070	1738	I	
Monthly Ave =											33.0**	Total
Max =	2.0	-13.5	100	77	-17.0	8.0	340	50.0	I	1155		
Min =	-27.5	-23.0	20									

† - Conversion mph to m/s, mph x .447  
 I\* - Incomplete data  
 \*\* - Precip total based on 22 days of available data

FEBRUARY 1982

Table B1 (cont'd)

LOON

Date	Temperature (°C)			Rel. Hum.		% Mean	Dew Point (°C) Mean	Speed	Dir.	Wind (mph)		Dir.	Time	Precipitation (mm) Amount
	Max	Min	Mean	Max	Min					Peak	Dir.			
1	-3.5	-15.0	-9.5	82	66	76	-13.0	9.5	080	36	330	1857	I	
2	-2.0	-14.0	-8.5	100	28	81	-11.0	4.0	050	16	050	0148	I	
3	-0.5	-8.0	-4.5	100	100	100	-4.5	I*	I	I	I	I	31.0	
4	2.0	-13.0	-5.5	100	70	96	-6.0	4.0	180	I	I	I	I	
5	-8.0	-14.0	-11.0	100	51	89	-12.5	8.0	300	36	270	0815	I	
6	-7.0	-16.0	-11.5	100	100	100	-11.5	12.0	230	33	210	1135	I	
7	-10.0	-18.5	-14.5	100	71	93	-15.5	8.0	240	22	260	0315	I	
8	-9.5	-12.0	-11.0	100	97	100	-11.0	6.0	280	27	280	1008	I	
9	-8.5	-12.0	-10.5	100	100	100	-10.5	5.5	180	16	180	1751	I	
10	-8.5	-17.0	-13.0	100	97	100	-13.0	9.5	300	29	270	1652	2.0	
11	-10.5	-19.0	-15.0	100	88	98	-15.5	6.5	250	21	270	2301	I	
12	-8.0	-15.0	-11.5	100	95	100	-11.5	4.0	340	16	330	0830	I	
13	-9.0	-15.5	-12.5	100	100	100	-12.5	4.0	340	26	330	2303	1.0	
14	-10.5	-16.0	-13.5	100	100	100	-13.5	7.0	310	27	350	0236	1.0	
15	0.0	-13.5	-7.0	100	100	100	-7.0	8.5	180	27	180	0752	I	
16	0.0	-12.5	-6.5	100	86	97	-7.0	9.0	350	36	340	0703	I	
17	-5.0	-14.5	-10.0	100	I	86	-12.0	5.0	040	24	030	0020	I	
18	-3.5	-15.0	-9.5	97	62	76	-13.0	4.0	160	19	080	0258	I	
19	-5.0	-13.0	-9.5	98	68	94	-10.5	8.0	180	21	180	0710	7.4	
20	0.0	-7.5	-4.0	98	97	97	-4.5	7.5	040	24	040	0625	I	
21	1.5	-7.0	-3.0	98	93	98	-3.5	4.5	050	14	040	1921	0.5	
22	-6.0	-10.0	-8.0	100	98	98	-8.5	5.5	040	17	070	2343	1.4	
23	-4.0	-10.5	-7.5	100	58	91	-8.5	7.5	050	44	350	2240	I	
24	-9.0	-18.5	-14.0	98	34	67	-19.0	9.5	340	37	020	0730	I	
25	-15.5	-22.5	-19.0	85	52	66	-24.0	14.5	330	49	330	2248	I	
26	-12.0	-22.5	-17.5	93	48	65	-22.5	12.0	350	45	350	0159	I	
27	-7.0	-15.0	-11.0	100	50	81	-13.5	8.0	310	30	330	1127	I	
28	-9.0	-21.5	-15.5	100	51	70	-20.0	8.0	350	26	330	1537	I	
29														
30														
31														
Monthly Ave			-10.5			90	-12.0	7.5	340	49	330	2248		44.3**
Max	2.0		-3.0	100										
Min		-22.5	-19.0		28									

Monthly

Ave =

Max =

Min =

\* - Conversion mph to m/s, mph x .447

I\* - Incomplete data

\*\* - Precip total based on 22 days of data

Total

44.3\*\*

2248

340

7.5

-12.0

90

28

LOON

Table B1 (cont'd)

MARCH 1982

Date	Temperature (°C)		Rel. Hum. %		Dew Point (°C) Mean	Speed	Wind (mph) <sup>†</sup>		Dir.	Time	Precipitation (mm) Amount	
	Max	Min	Max	Min			Dir.	Peak				
1	-10.5	-21.0	100	42	-21.0	7.0	180	23	180	1530	4.0	
2	-7.5	-15.0	100	64	-13.5	9.0	290	29	290	1239	1.0	
3	-10.5	-19.0	100	54	-19.0	10.0	340	33	320	0250		
4	-8.5	-19.0	100	38	-19.0	5.0	190	20	170	1720	5.1	
5	-3.0	-10.5	100	68	-8.5	I*	I	I	I	I	3.8	
6	-3.0	-13.0	100	54	-11.0	6.0	I	14	I	1218	I	
7	-2.0	-7.0	100	100	-4.5	3.5	I	13	I	1107	I	
8	-6.5	-17.0	100	76	-13.5	I	I	I	I	I	I	
9	-11.0	-17.5	100	77	-15.5	4.5	I	17.9	I	1136	I	
10	-4.0	-12.5	100	76	-9.5	6.7	I	17.9	I	1910	I	
11	0.0	-8.0	100	100	-4.0	12.3	I	25.7	I	1503	I	
12	1.0	-0.5	100	94	0.5	5.6	050	17.9	I	0033	I	
13	-0.5	-3.0	100	68	-2.5	7.8	180	28.0	260	2158	I	
14	-2.5	-8.0	100	54	-8.0	13.4	340	38.0	330	2356	I	
15	-3.0	-11.0	72	41	-14.5	12.3	340	35.8	330	0106	I	
16	5.0	-11.0	100	38	-11.0	7.8	340	28.0	330	1316	I	
17	0.5	-5.5	100	70	-3.5	5.6	030	16.8	020	2259	2.6	
18	7.0	-6.0	100	38	-5.5	3.4	060	13.4	070	0137	0.9	
19	3.0	-4.5	100	68	-3.0	2.2	060	15.7	050	2134	1.0	
20	4.5	-6.5	100	53	-3.5	3.4	360	15.7	360	1101		
21	0.0	-5.5	100	76	-4.0	3.4	180	21.3	090	1519	10.8	
22	-3.0	-7.0	100	100	-5.0	6.7	310	29.1	310	0436	4.7	
23	0.5	-7.0	100	58	-7.0	5.6	300	20.1	300	1423		
24	4.0	-8.0	100	51	-6.5	6.7	170	25.7	170	2221		
25	8.0	-4.0	100	58	-0.5	7.8	190	21.3	180	2309		
26	1.5	-10.0	100	100	-4.5	9.0	260	30.2	130	0932	16.6	
27	-10.0	-20.0	100	69	-16.0	10.1	290	39.2	290	1701	2.0	
28	-9.5	-21.5	78	40	-22.5	12.3	310	34.7	320	0118	0.1	
29	2.0	-12.5	93	39	-12.0	4.5	290	23.5	280	1103		
30	8.5	-5.0	64	24	-8.5	3.4	200	12.3	180	1832		
31	3.5	-1.5	100	55	0.5	9.0	180	28.0	220	2250	13.7	
Monthly Ave =												66.3**
Max =	8.5	-6.0	100	81	-9.0	7.3	180	39.2	290	1701		
Min =		-21.5		24								

† - Conversion mph to m/s, mph x .447  
 I\* - Incomplete data  
 \*\* - Precip monthly total based on 21 days of data

LOON

Table B1 (cont'd).

APRIL 1982

Date	Temperature (°C)		Rel. Hum.		Dew Point (°C)		Speed	Wind (mph)		Dir.	Time	Precipitation (mm) Amount
	Max	Min	Max	Min	Mean	Mean		Dir.	Peak			
1	1.0	-7.0	100	64	-3.5	97	12.3	270	25.7	270	0438	3.0
2	-2.0	-13.5	100	49	-10.5	82	11.2	320	40.3	320	1006	0.8
3	0.0	-8.0	100	36	-8.0	74	6.7	150	30.2	110	1849	9.7
4	-2.0	-13.5	100	100	-8.0	100	6.7	270	29.1	280	0800	3.8
5	-7.0	-18.5	100	100	-13.5	100	10.1	340	39.2	360	0845	0.8
6	-9.0	-15.5	100	100	-12.5	100	9.0	040	40.3	360	2315	12.1
7	-14.0	-19.0	100	100	-16.5	100	20.1	340	51.5	340	2115	12.6
8	-9.0	-16.0	100	74	-13.5	93	14.5	320	42.5	310	1139	1.7
9	1.5	-11.0	78	51	-10.5	66	10.1	330	31.3	330	0831	
10	0.5	-9.5	99	65	-7.5	80	9.0	310	33.6	290	0943	
11	6.5	-5.0	100	61	-1.0	86	6.7	200	23.5	340	2339	2.0
12	0.5	-4.5	100	I*	I	I	6.7	330	20.1	300	0916	8.2
13	1.0	-4.5	I	I	I	I	10.1	170	33.6	230	2154	5.1
14	2.5	-4.5	I	I	I	I	I	310	I	I	I	1.3
15	9.0	-5.0	I	I	I	I	6.7	350	15.7	170	2225	
16	14.0	1.0	I	I	I	I	11.2	180	24.6	200	2259	
17	10.0	6.5	I	I	I	I	13.4	190	31.3	I	2225	0.3
18	9.0	-3.0	I	I	I	I	I	I	34.7	I	1643	13.7
19	10.0	-4.0	I	I	I	I	7.8	I	23.5	210	1628	
20	13.0	3.5	I	48	1.5	61	10.1	160	31.3	170	2133	
21	4.5	-7.0	I	I	I	I	7.8	160	29.1	250	1549	
22	-3.5	-7.5	I	I	I	I	9.0	I	25.7	280	0908	
23	8.0	-6.0	I	I	I	I	5.6	I	25.7	I	2155	
24	9.0	0.0	I	I	I	I	4.5	I	25.7	I	0014	
25	17.5	6.0	I	I	I	I	6.7	I	17.9	I	1830	
26	13.0	6.0	I	I	I	I	9.0	I	28.0	I	1315	
27	12.0	0.0	I	I	I	I	4.5	330	24.6	I	0010	
28	8.0	-1.0	I	I	I	I	11.2	020	28.0	340	1957	
29	10.5	-1.0	I	I	I	I	9.0	010	28.0	360	0915	
30	13.0	1.0	I	I	I	I	10.1	340	33.6	290	1439	
31												
Monthly												
Ave		-0.5			9.0	87	5.3	237		340	2115	75.0
Max	17.5	12.0	100						51.5			
Min	-19.0	-16.5	36									

† - Conversion mph to m/s, mph x .447  
 I\* - Incomplete data  
 - All missing data due to equipment failure at site

OCTOBER 1980

Table B1 (cont'd).

CRREL

Date	Temperature (°C)			Rel. Hum. %		Mean Dew Point	Wind		Precipitation.		
	Max	Min	AVG	Max	Min		AVG. Speed	Dir	Max Hrly	Ant (mm)	Snow Depth
1	24.0	8.5	16.0	100	50	13.5	1.0	240	3.0		
2	21.5	7.5	14.5	100	75	13.0	1.5	270	5.0		
3	17.5	12.0	14.5	100	71	13.5	1.0	090	2.0		
4	17.0	6.5	12.0	100	61	9.0	1.5	270	3.5		
5	17.0	6.0	11.5	100	45	8.0	0.5	VAR	1.5		
6	15.0	4.0	9.5	100	56	7.0	0.5	VAR	2.0		
7	15.0	4.0	9.5	100	54	7.5	0.5	VAR	1.0		
8	19.0	3.5	11.0	100	54	7.0	1.5	250	3.5		
9	12.0	-1.5	5.0	100	45	0.5	1.5	030	4.5		
10	15.0	-2.5	6.0	100	40	2.5	0.5	VAR	1.5		
11	11.5	4.5	8.0	100	94	8.0	C	C	1.0	7.20	
12	13.0	5.0	9.0	100	68	8.5	1.0	260	2.0	0.80	
13	7.0	1.5	4.0	81	51	-2.0	1.5	360	4.0		
14	8.0	-3.0	2.5	100	46	-3.0	2.5	010	5.5		
15	12.0	-3.5	4.0	100	45	3.0	C	C	1.5		
16	11.5	-0.5	5.5	100	69	4.0	C	C	1.0		
17	18.0	7.0	12.5	100	74	11.0	1.5	180	4.0	1.10	
18	18.5	9.5	13.5	100	100	13.5	1.0	270	2.5	7.00	
19	16.0	6.5	11.0	100	45	6.0	1.5	270	3.5		
20	11.0	-2.0	4.5	100	48	0.5	1.5	270	4.0		
21	9.0	-2.0	3.5	100	70	2.0	0.5	VAR	2.5		
22	8.5	-2.0	3.0	100	44	-3.0	1.5	020	4.0		
23	6.0	-1.0	2.5	94	54	-3.0	2.0	020	5.0		
24	12.0	-4.0	4.0	100	48	-5.0	1.0	VAR	2.0		
25	12.0	-2.0	5.0	100	81	4.0	2.5	090	6.0	19.10	
26	13.5	5.5	9.5	100	62	5.5	3.5	270	6.0	1.20	
27	7.0	2.0	4.5	85	56	-2.0	1.5	270	3.5		
28	5.0	2.0	3.5	100	86	0.5	1.5	130	3.5		
29	8.5	-2.5	3.0	100	50	-2.0	1.0	360	3.0		
30	8.0	-3.0	2.5	100	56	-1.5	1.0	VAR	2.5		
31	11.5	0.0	6.0	99	54	8.0	1.5	270	4.0		
AVG	12.9	2.1	7.5	100	40	4.3	1.2	VAR	6.0	36.40	

Monthly Max = 24°C  
 Monthly Min = -4°C  
 Peak Gust = 17 NPS on 26 Oct

(Total)

NOVEMBER 1980

Table B1 (cont'd).

CRREL

Date	Temperature (°C)			Rel. Hum. %			Mean Dew Point	Wind		Precipitation	
	Max	Min	Avg	Max	Min	Mean		Avg. Speed	Dir	Amt (mm)	Snow Depth (cm)
1	6.5	1.5	4.0	100	56	76	0.0	1.5	285	0.2	0.2
2	3.5	-4.5	-0.5	92	54	65	-6.0	2.0	360		
3	4.5	-8.0	-2.0	100	60	81	-4.0	M	M		
4	13.0	5.0	9.0	90	70	75	5.0	2.5	240	0.2	0.2
5	10.5	-1.5	4.5	93	52	68	-1.0	2.0	360		
6	5.5	-6.0	-0.5	89	56	68	-5.5	2.0	250	4.0	4.0
7	11.5	4.5	8.0	98	73	87	6.0	1.0	VAR	2.0	2.0
8	8.5	-5.0	1.5	98	45	80	-1.0	2.0	050	5.0	5.0
9	2.0	-7.0	-2.5	99	77	92	-3.5	1.0	VAR	3.0	3.0
10	5.5	-2.0	1.5	100	66	87	-4.0	2.5	030	4.5	4.5
11	0.5	-1.5	-0.5	76	65	71	-5.0	4.0	030	6.0	6.0
12	2.0	-1.5	0.5	75	66	71	-5.0	7.5	030	6.5	6.5
13	5.5	-2.0	1.5	88	53	88	-0.5	1.5	030	3.0	3.0
14	7.5	1.5	4.5	90	70	82	1.5	2.5	045	5.0	5.0
15	5.0	-3.5	0.5	86	50	66	-5.0	2.0	350	3.5	3.5
16	1.0	-5.0	-2.0	83	52	67	-7.5	2.5	015	6.0	6.0
17	0.5	-7.5	-3.5	100	56	88	-5.0	1.5	060	2.5	2.5
18	0.0	-3.0	-1.5	100	86	97	-2.0	2.5	075	5.0	5.0
19	0.5	-9.0	-4.0	99	63	77	-7.5	3.0	045	4.5	4.5
20	8.0	-8.0	0.0	100	58	88	-1.5	0.5	VAR	0.5	0.5
21	5.0	-8.5	-1.5	100	70	96	-2.0	1.0	VAR	0.5	0.5
22	4.0	-6.5	-1.0	100	67	88	-2.5	2.0	025	5.4	5.4
23	1.0	-6.5	-2.5	100	86	98	-3.0	1.0	VAR	0.5	0.5
24	3.5	-2.0	1.0	M	M	M	M	0.5	VAR	0.5	0.5
25	4.0	+1.0	2.5	M	M	M	M	2.0	360	3.5	3.5
26	5.5	-2.5	1.5	81	32	57	-6.0	3.0	035	6.0	6.0
27	1.0	-6.5	-2.5	99	34	67	-7.5	1.0	090	2.0	2.0
28	6.0	-3.0	1.5	98	64	89	0.0	1.5	240	3.0	3.0
29	4.5	-0.5	2.0	97	48	73	-2.5	2.5	250	4.0	4.0
30	5.5	-1.5	2.0	98	46	62	-4.5	1.5	280	4.5	4.5
AVG	4.7	-3.3	0.7	100	32	79	-2.8	2.1	VAR	7.0	7.0

(Total)

Monthly Max = 13.0°C  
 Monthly Min = -9.0°C  
 Peak Gust = 28.0 MPS on 11 Nov

DECEMBER 1980

Table B1 (cont'd).

CRREL

Date	Temperature (°C)			Rel. Hum. %			Mean Dew Point	Wind		Precipitation	
	Max	Min	Avg	Max	Min	Mean		Avg. Speed	Dir	Ant (mm)	Snow Depth
1	10.5	0.0	5.0	98	46	71	0.0	0.5	270	4.5	
2	10.5	-2.0	4.0	99	50	60	-3.0	3.1	180	6.5	5.5
3	5.5	-9.0	-1.5	97	37	65	-7.5	4.0	220	7.0	6.0
4	-4.0	-9.5	-6.5	52	32	39	-18.5	5.0	015	10.0	
5	-2.0	-11.5	-6.5	70	40	54	-14.5	2.5	030	5.5	
6	-1.0	-10.0	-5.5	88	44	74	-9.5	2.5	060	5.0	0.7
7	4.5	-9.5	-2.5	99	36	80	-5.5	1.5	VAR	1.5	1.5
8	10.0	-1.0	4.5	99	71	92	-6.0	1.5	270	3.0	0.8
9	10.0	-3.0	3.5	100	84	84	1.0	2.5	060	5.5	
10	1.0	-5.0	-2.0	99	58	80	-5.5	1.5	245	5.0	
11	-5.0	-17.0	-11.0	100	72	91	-12.5	2.5	360	9.0	
12	-4.0	-18.0	-11.0	100	46	68	-16.0	1.5	230	3.5	2.8
13	3.5	-12.0	-4.0	100	66	94	-5.0	2.0	050	4.5	
14	-3.0	-16.5	-9.5	100	74	94	-10.5	2.0	360	5.0	
15	-6.5	-22.0	-14.0	100	54	84	-16.0	0.5	VAR	1.0	0.7
16	-3.0	-8.0	-5.5	100	59	84	-8.0	1.0	VAR	2.5	4.5
17	-6.5	-20.5	-13.5	100	100	100	-13.5	1.5	060	4.5	0.5
18	-4.5	-20.0	-12.0	100	63	88	-13.5	1.0	VAR	1.5	0.1
19	-0.5	-22.0	-11.0	98	36	69	-15.5	2.0	360	5.5	2.0
20	-10.0	-27.0	-18.5	99	38	68	-23.0	1.0	VAR	1.5	
21	-6.0	-29.0	-17.5	100	48	87	-19.0	1.5	360	4.0	
22	-9.5	-23.5	-16.5	99	43	71	-20.5	1.0	VAR	1.5	
23	-2.5	-13.5	-8.0	100	88	90	-9.5	1.0	VAR	0.5	
24	-2.0	-15.5	-8.5	100	70	98	-9.0	2.0	030	8.0	2.2
25	-14.5	-31.0	-22.5	M	M	M	M	4.0	015	8.0	
26	-15.0	-31.5	-23.0	M	M	M	M	1.0	070	4.0	
27	-2.0	-18.5	-10.0	100	62	96	-10.5	3.0	090	2.5	
28	-1.0	-20.0	-10.5	100	96	98	-11.0	1.0	VAR	1.5	
29	2.5	-1.0	0.5	100	99	99	0.5	1.5	080	1.5	
30	0.0	-16.0	-8.0	99	70	82	-10.5	4.0	030	7.5	
31	4.5	-19.5	-12.0	94	46	66	-17.0	2.0	090	4.5	
AVG	-1.6	-14.9	-8.2	100	32	80	-10.6	2.0	VAR	10.0	27.5
											4.25
											(Total)

Monthly Max = 10.0°C  
 Monthly Min = -31.0°C  
 Peak Gust = 35 MPS on 4 Dec



JANUARY 1981

Table B1 (cont'd).

CRREL

Date	Temperature (°C)		Rel. Hum. %		Mean Dew Point	Wind		Precipitation	
	Max	Min	Max	Min		Avg. Speed	Dir	Max Hrly	Amt (mm)
1	-9.0	-20.5	94	47	-18.0	C	1.5		
2	-3.0	-18.0	96	31	-14.5		2.0		1.5
3	6.0*	-15.0*	M	M	-17.0*	060	1.5		
4	-5.0*	-25.0*	M	M	-15.5*	045	2.0		
5	-10.5	-29.5	100	59	-21.5	090	1.0		
6	-4.0	-21.5	97	66	-14.5	VAR	0.5		
7	-0.5	-14.5	98	55	-9.0	295	2.0		
8	-12.0	-25.0	98	54	-23.0	260	1.5		
9	-9.0	-27.0	99	58	-19.5	C	C		
10	-8.5	-20.5	99	70	-16.0	045	2.0		
11	-16.0	-27.0	100	56	-25.0	290	1.5		
12	-13.5	-31.5	100	57	-24.0	VAR	0.5		
13	-11.0	-32.0	100	47	-23.5	VAR	0.5		
14	-11.5	-29.0	100	58	-22.0	VAR	0.5		
15	-8.0	-22.5	99	58	-16.5	070	1.5		
16	-8.5	-21.0	99	86	-15.0	065	1.0		
17	-8.0	-23.0	99	53	-19.5	025	2.0		10
18	-5.5	-27.0	82	46	-21.0	C	C		
19	5.5	-12.0	86	42	-8.5	255	1.0		
20	2.5	-18.5	69	35	-17.0	030	3.0		
21	-5.0	-25.0	80	36	-20.5	VAR	0.5		
22	2.5	-14.0	84	37	-9.0	VAR	0.5		
23	2.0	-7.0	89	48	-8.0	VAR	1.0		
24	-0.0	-13.0	89	44	-11.5	040	1.0		1.0
25	1.5	-20.0	85	40	-14.0	C	C		
26	5.5	-7.0	89	54	-4.5	270	1.0		
27	5.0	-2.0	80	48	-6.5	260	2.0		
28	1.0	-10.0	72	30	-13.5	305	2.0		
29	-6.5	-18.5	84	52	-17.5	070	2.5		
30	-9.0	-21.5	86	34	-21.5	030	3.0		5.2
31	-5.0	-27.0	88	40	-21.0	080	1.5		
AVG..	-4.4	-20.2	100	30	-16.4	VAR	1.3		12.2 (Total)

Monthly Max = 6°C  
 Monthly Min = 32.0°C  
 Peak Gust = 28 MPS on 7 Jan

\* Data from another collecting source.

FEBRUARY 1981

Table B1 (cont'd).

CRREL

Date	Temperature (°C)			Rel. Hum. %			Mean Dew Point	AVG. Speed	Wind		Precipitation	
	Max	Min	AVG	Max	Min	Mean			Dir	Max Hrly	Am't (mm)	Snow Depth
1	2.5	-23.0	-10.0	91	32	66	-15.0	2.0	250	6.0	4.0	
2	11.0	-9.0	1.0	98	48	83	-1.5	3.5	260	6.5	23.3	
3	-7.0	-15.0	-8.5	87	40	72	-20.5	2.5	270	6.0		
4	-10.0	-18.0	-14.0	76	40	59	-12.5	2.5	270	4.0		
5	-9.0	-19.0	-14.0	81	28	59	-20.5	1.0	VAR	4.0		
6	-3.0	-19.0	-11.0	84	39	69	-15.5	1.5	250	6.5		
7	2.0	-13.0	-5.5	82	38	60	-12.0	1.0	VAR	3.5		
8	3.0	-4.0	-0.5	88	64	75	-4.5	0.5	VAR	0.5	16	
9	-0.5	-13.0	-6.5	86	40	53	-14.5	2.5	250	5.0		
10	1.0	-20.5	-9.5	80	44	59	-16.0	2.0	210	6.0		
11	14.5	-1.0	6.5	83	46	74	2.0	3.5	240	9.5		
12	2.0	-16.0	-7.0	78	31	40	-18.5	3.0	310	9.0	29.0	
13	-3.0	-18.5	-7.5	79	29	56	-15.0	1.0	VAR	3.0	1.0	
14	1.5	-15.0	-6.5	79	28	53	-14.5	0.5	VAR	3.0		
15	2.5	-9.0	-3.0	75	36	54	-11.0	1.0	255	3.5		
16	10.0	-6.5	1.5	84	50	66	-4.0	1.5	260	4.5		
17	12.0	-1.0	5.5	100	60	83	3.0	1.5	260	5.0		
18	15.5	-2.5	6.5	100	56	87	4.5	0.5	VAR	5.0		
19	12.5	-1.5	5.5	100	76	93	4.5	0.5	VAR	2.5		
20	13.5	6.5	10.0	100	82	97	9.5	2.0	170	7.0	11.3	
21	11.5	7.5	9.5	100	88	96	9.0	1.0	150	3.0		
22	9.0	4.0	6.5	100	92	97	6.0	2.0	180	4.0		
23	11.0	0.0	5.5	100	64	93	4.5	1.5	200	5.5		
24	7.0	2.0	4.5	100	88	97	4.0	1.0	VAR	2.5		
25	2.0	-0.5	0.5	100	93	99	0.5	0.5	VAR	6.5	36.0	
26	2.0	0.0	1.0	100	76	93	0.0	3.0	040	5.5	53.1	
27	2.0	-7.5	-2.5	99	62	76	-6.0	4.0	030	7.5	4.6	
28	1.0	-8.5	-3.5	99	72	89	-5.0	1.0	VAR	3.0	0.1	
AVG	4.2	-7.9	-1.8	100	28	75	-5.7	1.7	SSW	9.5	177.6 (Total)	

Monthly Max = 16°C  
 Monthly Min = -23°C  
 Peak Gust = 15 MPS on 12 Feb

MARCH 1981

Table B1 (cont'd).

CRREL

Date	Temperature (°C)		Rel. Hum. %		Mean Dew Point	Wind		Precipitation Amt (mm)	Snow Depth
	Max	Min	Max	Min		Avg. Speed	Dir		
1	4.5	-0.5	2.0	80	-1.0	360	5.0	13.0	
2	4.5	-1.5	1.5	75	-2.5	270	4.5		
3	-1.5	-11.5	-6.5	64	-12.0	020	5.0		
4	1.0	-14.5	-6.5	72	-10.5	350	2.5		
5	2.0	-14.0	-6.0	76	-9.5	090	3.5		
6	2.5	-9.5	-3.5	83	-6.0	1.0	3.5	0.1	
7	3.5	-1.0	1.0	94	0.0	030	3.5	0.4	
8	4.0	-0.5	1.5	88	-0.5	060	4.0		
9	4.0	-1.0	1.5	87	-0.5	VAR	1.0		
10	4.0	-2.0	1.0	73	-4.5	360	4.0		
11	2.5	-6.5	-2.0	90	-3.5	220	2.5		
12	1.5	-9.0	-3.5	72	-7.5	270	3.5		
13	7.5	-3.5	2.0	80	-1.0	1.5	5.0	0.5	
14	-1.0	-8.0	-4.5	55	-12.0	3.5	5.5		
15	8.5	-9.5	-0.5	71	-5.0	1.5	4.5		
16	4.0	-9.5	-2.5	67	-14.5	3.5	5.5		
17	-0.5	-11.5	-6.0	54	-14.0	3.5	5.5		
18	-1.0	-11.5	-6.0	56	-13.5	2.5	4.5		
19	0.5	-14.5	-7.0	70	-11.5	1.0	3.5		
20	1.0	-7.0	-3.0	85	-5.0	VAR	3.0	0.7	
21	5.0	-2.0	1.5	75	-2.5	030	5.0		
22	6.0	-4.5	0.5	76	-3.5	330	2.5		
23	10.5	-6.5	2.0	77	-1.5	VAR	1.5	0.8	
24	9.0	-3.0	3.0	88	1.0	090	2.5		
25	8.0	-3.0	2.5	80	-0.5	VAR	2.0		
26	12.5	-5.0	3.5	75	-0.5	270	3.0		
27	7.5	-3.0	2.0	88	0.5	010	3.5	7.1	
28	12.5	-5.5	3.5	62	-3.0	VAR	2.0		
29	26.0	2.5	14.0	59	6.0	1.5	5.0		
30	20.0	4.0	12.0	86	9.5	1.5	4.5	2.5	
31	15.5	5.0	10.0	83	7.5	2.0	4.0		
AVG	5.9	5.4	0.3	76	-3.9	1.4	5.5	12.1 (Total)	

Monthly Max = 26°C  
 Monthly Min = -14°C  
 Peak Gust = 17.5 MPS on 14 Mar

APRIL 1981

Table B1 (cont'd).

CRREL

Date	Temperature (°C)			Rel. Hum. %			Mean Dew Point	Wind		Precipitation	
	Max	Min	AVG	Max	Min	Mean		AVG. Speed	Dir	Am't (mm)	Snow Depth
1	16.5	3.8	10.0	100	62	84	7.5	2.5	200	200	6.6
2	10.0	-3.0	3.5	100	60	85	1.5	2.5	010	010	1.5
3	26.0	-4.5	10.5	100	41	68	5.0	2.0	250	250	5.0
4	21.5	11.0	16.5	100	53	78	12.5	2.0	250	250	4.5
5	14.5	8.0	11.0	100	78	98	10.5	2.0	250	250	6.6
6	8.0	-3.0	2.5	100	58	71	-2.0	2.0	330	330	4.0
7	15.5	-1.5	7.0	99	31	52	-2.0	2.0	330	330	5.5
8	24.0	-4.5	10.0	100	38	63	3.5	1.5	240	240	3.5
9	20.0	7.0	13.5	100	68	84	11.0	2.5	260	260	4.0
10	18.5	-1.0	9.0	100	34	61	2.0	2.0	360	360	5.0
11	14.0	1.0	17.5	100	66	87	15.5	0.5	VAR	VAR	2.5
12	11.0	-2.0	4.5	100	46	72	0.0	2.5	070	070	4.5
13	15.0	-6.0	4.0	100	36	70	-1.0	2.0	210	210	4.0
14	10.0	-1.5	4.0	100	62	82	1.0	2.5	270	270	9.1
15	3.0	-6.5	-1.5	76	44	60	-3.0	4.0	010	010	6.0
16	16.5	-8.0	4.0	100	46	78	0.5	1.5	270	270	4.0
17	12.0	-4.0	4.0	100	66	93	3.0	0.5	VAR	VAR	2.5
18	20.5	4.5	12.5	100	58	86	10.0	2.0	020	020	4.5
19	14.0	-0.5	6.5	99	34	68	1.0	2.5	020	020	4.5
20	8.0	-1.5	3.0	100	54	80	0.0	3.5	010	010	5.5
21	2.0	-6.5	-2.0	98	46	70	-6.5	2.0	360	360	4.5
22	10.5	-7.0	1.5	96	32	62	-5.0	0.5	VAR	VAR	2.0
23	10.5	-6.0	2.0	100	46	80	-1.0	1.0	160	160	3.0
24	10.0	3.5	6.5	100	94	98	6.0	1.0	360	360	2.5
25	6.5	4.5	5.5	100	86	94	4.5	1.5	350	350	4.0
26	17.0	3.0	10.0	100	54	78	6.5	1.5	360	360	4.0
27	18.5	-0.5	9.0	100	48	72	4.0	0.5	VAR	VAR	1.5
28	19.0	2.0	10.5	100	53	82	7.5	2.0	270	270	4.0
29	22.5	9.0	15.5	100	60	88	13.5	1.5	330	330	4.8
30	18.5	7.5	13.0	100	47	78	9.0	1.5	330	330	3.5
AVG	14.4	-0.1	7.2	100	31	77	3.8	1.9	N	N	52.0 (Total)

Monthly Max = 26°C  
 Monthly Min = -7°C  
 Peak Gust = 19 MPS on 2 Apr

OCTOBER 1981

Table B1 (cont'd).

CRREL

Date	Temperature (°C)		Rel. Hum. %		Mean Dew Point	Wind		Precipitation	
	Max	Min	Max	Min		Avg. Speed	Dir	Am't (mm)	Snow Depth
1	8.5	0.5	100	56	0.5	270	1.0	2.9	
2	15.0	5.0	100	58	6.5	VAR	0.5	8.1	
3	10.0	5.5	100	68	5.5	360	1.5	5.6	
4	15.0	3.5	100	49	5.0	270	1.0		
5	15.0	3.5	100	55	5.0	VAR	0.5		
6	10.0	3.0	100	88	5.5	VAR	0.5	7.0	
7	10.5	5.5	100	62	5.5	270	1.0	0.6	
8	10.5	5.5	100	66	5.5	030	2.0	0.4	
9	9.0	3.0	100	58	3.0	010	2.5		
10	11.0	-0.5	100	42	0.5	VAR	1.0		
11	10.0	-1.5	100	50	0.5	090	1.0		
12	13.5	-3.0	100	40	0.5	090	0.5		
13	16.5	-2.0	100	37	1.5	VAR	0.5		
14	20.0	0.0	100	24	4.0	VAR	0.5		
15	17.0	-1.0	100	40	3.5	C	C	0.3	
16	15.0	3.0	100	62	6.5	360	1.5		
17	15.0	0.0	100	49	3.5	360	2.0		
18	11.0	0.0	100	68	3.5	180	1.0	20.5	
19	11.0	2.5	100	50	3.0	240	1.5		
20	13.0	-1.0	100	44	1.0	210	3.0	0.3	
21	13.0	2.5	100	53	4.5	210	2.0		
22	16.0	5.5	100	61	8.0	VAR	0.5		
23	16.0	3.5	100	82	8.5	210	2.0	15.5	
24	8.0	-3.0	100	39	-2.0	310	2.0	2.9	
25	9.5	-4.0	100	62	0.5	150	1.0	0.3	
26	9.5	7.0	100	89	7.5	VAR	0.5	11.5	
27	12.5	8.0	100	96	9.5	C	C	22.4	
28	13.0	3.5	98	68	5.5	360	4.0	19.4	
29	6.5	-0.5	100	68	0.5	VAR	0.5		
30	10.0	-1.5	100	56	0.0	VAR	0.5		
31	11.5	-1.5	100	55	1.5	VAR	0.5		
AVG	12.0	1.7	100	24	4.0	VAR	1.0	117.6	(Total)

Monthly Max = 20°C  
 Monthly Min = -6°C  
 Peak Gust = 16 MPS on 28 Oct

NOVEMBER 1981

Table B1 (cont'd).

CRREL

Date	Temperature (°C)		Rel. Hum. %		Mean Dew Point	Wind		Precipitation	
	Max	Min	Max	Mean		AVG. Speed	Dir	Am't (mm)	Snow Depth (cm)
1	12.0	0.0	100	68	3.5	0.5	VAR	2.5	
2	17.0	1.5	100	42	4.0	2.0	300	4.5	
3	10.5	-2.5	99	30	-2.5	2.5	330	4.5	
4	12.0	-3.0	99	32	-1.5	1.5	360	5.5	
5	14.5	-4.5	99	40	1.0	0.5	VAR	2.5	
6	10.0	3.0	100	67	4.0	1.0	VAR	3.5	8.0
7	4.0	0.5	100	60	-1.5	3.0	340	4.5	
8	12.0	-3.0	100	20	-2.0	1.5	060	3.5	
9	11.0	-3.0	100	60	1.0	2.0	360	5.0	
10	4.5	-6.0	100	40	-5.5	2.0	180	5.0	
11	8.0	0.0	100	53	0.0	1.5	270	4.0	
12	2.0	-7.0	100	26	-8.5	2.5	360	4.5	
13	7.5	-8.5	100	26	-7.0	0.5	VAR	2.0	1.0
14	10.0	-6.0	100	38	-3.5	0.5	VAR	2.0	4.0
15	8.0	-1.0	100	69	1.0	0.5	VAR	2.0	8.0
16	14.0	7.0	100	71	8.5	0.5	VAR	2.0	7.0
17	10.0	7.0	100	86	7.5	C	C	0.5	
18	7.0	2.0	98	76	2.5	1.0	350	3.0	9.0
19	5.0	2.0	100	68	1.0	1.0	VAR	2.5	8.0
20	3.0	2.0	100	81	1.0	1.0	VAR	2.5	
21	4.0	1.5	100	64	0.0	1.5	240	4.0	
22	3.5	-1.0	69	50	-6.5	2.0	270	4.5	
23	2.5	-4.0	87	44	-6.0	1.5	270	3.0	
24	0.5	-7.5	100	53	-7.0	1.0	360	3.0	
25	-1.0	-7.5	100	64	-7.0	4.0	030	7.0	
26	0.5	-4.0	88	60	-6.0	3.5	010	5.5	2.0
27	4.0	-2.0	100	60	-2.0	0.5	VAR	1.5	
28	4.0	-2.5	100	53	-3.0	2.5	270	4.5	
29	0.0	-2.5	96	58	-5.0	3.0	360	4.5	
30	0.0	-7.0	100	54	-2.5	2.5	360	4.0	
AVG	6.7	-1.9	100	20	-1.5	1.5	VAR	7.0	47.0

(Total)

Monthly Max = 17°C  
 Monthly Min = -8°C  
 Peak Gust = 13 MPS on 2 Nov

DECEMBER 1981

Table B1 (cont'd).

CRREL

Date	Temperature (°C)			Rel. Hum. %			Mean Dew Point	Wind		Precipitation	
	Max	Min	AVR	Max	Min	Mean		AVR. Speed	Dir	Max Hrly	AVR (mm)
1	-2.0	-9.5	-5.5	100	78	89	-7.0	200	3.0	6.0	
2	3.0	-2.0	0.5	100	66	82	-2.5	VAR	2.5	0	
3	1.0	-1.0	0.0	100	94	96	-1.5	VAR	2.5	0	
4	5.5	-4.0	1.0	100	52	75	-3.0	VAR	2.5	0	
5	1.0	-4.0	-1.5	99	68	82	-4.5	360	5.5	0	
6	-1.0	-5.0	-3.0	98	65	81	-6.0	360	7.5	0	
7	-1.0	-8.5	-5.0	100	71	85	-7.0	360	4.0	1.5	6.0
8	-3.0	-9.5	-6.5	100	80	89	-8.0	030	3.5	2.3	5.5
9	-3.0	-5.0	-4.0	100	70	83	-6.5	360	4.5	1.0	11.5
10	-3.0	-5.5	-4.0	88	59	72	-8.5	360	5.5	0	12.0
11	1.0	-6.0	-2.5	99	64	81	-5.5	360	3.0	0.3	12.0
12	0.5	-3.0	-1.5	97	58	76	-5.5	360	4.5	0	12.0
13	-2.0	-7.5	-4.5	100	62	78	-8.0	030	4.0	0	12.0
14	-1.0	-11.0	-6.0	100	64	81	-9.0	C	1.0	1.9	9.0
15	1.5	-3.0	-1.0	100	78	87	-3.0	C	2.0	2.1	16.0
16	1.0	-5.0	-2.0	100	53	76	-5.5	C	3.0	10.7	33.0
17	-1.0	-11.0	-6.0	100	41	68	-11.0	300	4.0	0.1	28.0
18	-5.5	-9.0	-7.5	100	88	92	-8.5	VAR	3.0	3.0	
19	-6.0	-17.0	-11.5	100	53	75	-15.0	030	3.0	0	
20	-7.5	-25.0	-16.0	100	51	69	-20.5	300	3.5	0	
21	-5.0	-26.0	-15.5	99	53	70	-20.0	VAR	2.5	0	29.0
22	1.5	-9.5	-5.5	100	67	83	-8.0	VAR	3.0	1.1	36.0
23	2.0	-9.0	-3.5	100	70	86	-5.5	270	4.0	4.0	
24	3.5	-4.5	-0.5	100	54	73	-5.0	210	3.0	0	
25	0.5	-6.0	-3.0	99	52	76	-7.0	VAR	2.5	0	
26	-1.5	-9.5	-5.5	100	63	82	-8.0	M	M	0	
27	-1.5	-10.5	-6.0	100	71	87	-8.0	M	M	4.2	
28	2.0	-4.5	-3.0	100	74	95	-3.5	C	C	1.5	35.0
29	1.0	-17.0	-8.0	100	59	94	-9.0	360	4.5	6.0	42.0
30	-1.0	-16.5	-9.0	100	48	84	-11.0	VAR	2.0	0	
31	-4.0	-10.0	-7.0	96	58	80	-10.0	VAR	2.5	0	
AVG	- .8	- 9.2	- 5.0	100	41	82	-11.0	1.5	N	7.5	45.7 (Total)

Monthly Max = 6°C  
 Monthly Min = -26°C  
 Peak Gust = 17 MPS on 6 Dec

JANUARY 1982

Table B1 (cont'd).

CRREL

Date	Temperature (°C)			Rel. Hum. %		Mean Dew Point	Wind			Precipitation	
	Max	Min	AVG	Max	Min		AVG. Speed	Dir	Mix Hrly	AMC (mm)	Snow Depth (cm)
1	0.0	-3.0	-1.5	100	69	-2.5	1.5	270	3.5	9.5	
2	-1.0	-18.0	-9.5	100	30	-15.5	2.5	360	4.5	0.5	
3	-5.5	-19.0	-12.0	100	53	-14.5	0.5	VAR	1.5	0	
4	3.5	-5.5	-1.0	100	88	-2.0	1.5	180	4.5	24.7	45.0
5	3.5	-13.0	-5.0	100	49	-11.0	4.0	270	7.0	0	39.0
6	-5.0	-16.0	-10.5	100	68	-11.5	C	C	1.0	0	38.0
7	-1.0	-6.5	-4.0	100	56	-8.5	1.5	010	3.5	0	39.0
8	-6.5	-16.5	-11.5	93	40	-16.5	1.5	300	4.0	0	38.0
9	-7.0	-17.5	-12.5	100	67	-13.5	0.5	VAR	2.0	0	38.0
10	-15.0	-23.0	-19.0	95	44	-23.0	1.5	270	4.5	0	38.0
11	-14.5	-23.5	-19.0	96	53	-23.5	2.0	210	4.0	T	38.0
12	-13.5	-28.0	-22.0	98	39	-25.0	1.5	010	5.0	T	43.0
13	-13.5	-25.5	-19.5	100	50	-21.0	1.0	040	2.0	2.2	
14	-9.0	-14.5	-12.0	100	86	-12.5	0.5	VAR	2.0	1.0	43.0
15	-5.5	-18.0	-12.0	91	46	-15.5	2.0	330	4.0	T	42.0
16	-6.5	-24.5	-15.5	100	48	-16.5	0.5	VAR	5.5	0	
17	-10.5	-21.0	-16.0	84	44	-22.5	3.5	300	6.0	0	
18	-11.5	-30.0	-21.0	100	44	-24.0	1.0	240	3.0	T	37.0
19	-11.0	-28.5	-20.0	100	44	-23.0	0.5	VAR	3.0	T	38.0
20	-2.5	-16.0	-9.5	100	48	-13.0	2.0	360	4.5	0.3	
21	-11.5	-26.0	-19.0	100	48	-23.5	1.5	030	3.5	0	38.0
22	-14.5	-31.0	-23.0	100	41	-26.5	1.0	070	3.5	0	37.0
23	-6.0	-26.0	-16.0	100	78	-16.5	1.5	220	4.0	10.3	
24	-6.0	-11.5	-9.0	100	53	-13.5	3.0	240	5.0	0.6	
25	-11.0	-23.5	-17.0	97	44	-22.5	2.5	270	4.5	0	49.0
26	-12.5	-34.0	-23.0	100	48	-26.0	1.5	020	3.5	0	49.0
27	-10.0	-32.0	-21.0	100	50	-23.5	1.0	050	2.5	0	48.0
28	-2.5	-20.0	-11.5	100	56	-13.5	1.0	240	4.0	0	48.0
29	1.0	-14.0	-6.5	100	45	-14.0	3.5	300	6.0	0	46.0
30	-1.5	-18.0	-10.0	100	59	-10.5	1.0	210	5.5	0	
31	1.5	-7.0	-3.0	100	48	-6.0	3.0	020	4.5	19.5	
AVG	-6.6	-19.7	-13.3	100	30	-16.5	1.5	NNW	7.0	68.6	

Monthly Max = 3.5°C  
 Monthly Min = -36°C  
 Peak Gust = 16.5 MPS on 5 Jan



FEBRUARY 1982

Table B1 (cont'd).

CRREL

Date	Temperature (°C)			Rel. Hum. %			Mean Dew Point	Wind		Precipitation		
	Max	Min	AVG	Max	Min	Mean		AVG. Speed	Dir	Max Hrfly	Am't (mm)	Snow Depth (cm)
1	0.0	-11.5	-6.0	100	57	83	-8.5	2.5	280	6.0	4.3	52
2	-2.0	-20.0	-11.0	100	53	82	-13.5	M	M	M	T	51
3	1.0	-2.0	-0.5	100	89	99	-0.5	M	M	M	26.8	50
4	6.5	-8.5	-1.0	100	48	69	-6.0	3.0	360	5.0	0	47
5	-6.0	-14.0	-10.0	100	52	76	-13.5	1.0	030	2.5	1.2	46
6	-0.5	-8.5	-4.5	100	42	65	-10.0	2.5	270	5.5	0.9	46
7	-3.0	-14.5	-9.0	84	34	53	-17.0	2.5	220	6.0	0	52
8	-1.0	-9.5	-10.5	94	48	62	-16.5	2.5	250	4.5	0	46
9	-3.0	-10.0	-11.5	100	91	97	-12.0	C	C	0.5	6.6	52
10	-3.5	-19.5	-11.5	100	39	73	-15.5	1.5	320	5.0	0.7	59
11	-3.5	-25.5	-14.5	100	44	78	-17.5	0.5	VAR	2.5	0	54
12	-0.5	-23.5	-12.0	100	41	77	-15.5	1.0	320	2.5	0	54
13	-3.5	-11.5	-7.5	95	60	86	-9.5	1.5	030	2.5	0	
14	-1.5	-18.5	-10.0	100	40	77	-13.5	1.0	290	3.5	0	
15	4.0	-18.5	-7.0	100	72	91	-8.5	1.0	220	4.0	0	
16	5.0	-6.0	-0.5	100	35	58	-7.5	3.0	360	5.5	0	51
17	-2.5	-13.0	-8.0	93	39	62	-14.0	1.5	050	3.5	0	49
18	2.0	-17.0	-7.5	100	27	66	-13.0	1.0	270	2.0	0	49
19	-1.0	-14.5	-8.0	100	82	99	-8.0	0.5	VAR	1.5	11.1	49
20	3.5	-5.0	-1.0	100	70	90	-2.5	1.5	060	4.0	0.2	53
21	5.0	-3.0	1.0	100	54	72	-3.5	2.0	030	4.0	0	53
22	0.5	-4.5	-2.0	90	62	75	-6.0	3.5	020	4.5	0	53
23	1.5	-9.0	-4.0	100	57	77	-7.5	1.0	340	4.5	T	53
24	0.5	-12.5	-6.0	68	44	55	-13.5	2.5	030	5.5	0	53
25	-8.0	-17.0	-12.5	60	34	46	-21.5	4.0	340	8.0	0	53
26	-4.5	-19.0	-12.0	79	34	49	-20.5	2.5	340	5.0	0	53
27	1.0	-18.5	-9.0	100	38	70	-13.5	1.5	300	4.0	0	
28	-5.0	-17.5	-11.5	100	31	61	-17.5	2.5	010	6.0	0	
AVG	-0.7	-13.3	-7.4	100	27	73	-11.5	2.0	VAR	8.0	51.8	(Total)

Monthly Max = 6°C  
 Monthly Min = -26°C  
 Peak Gust = 16.5 MFS on 1 Feb

MARCH 1982

Table B1 (cont'd).

CRREL

Date	Max	Rel. Hum. %	Min	Mean	Mean Dew Point	Wind		Precipitation	
						AVG. Speed	Dir	AMC (mm)	Snow Depth
1	100	77	33	-16.0	210	1.5	210	1.1	52
2	100	71	34	-8.5	260	2.0	260	2.1	58
3	100	65	34	-17.0	360	2.0	360	0	52
4	100	83	39	-17.0	220	2.0	220	4.3	52
5	100	71	41	-4.5	270	2.0	270	2.2	55
6	100	71	41	-8.0	160	1.5	160	0	0
7	100	98	44	0.0	VAR	0.5	VAR	20.0	62
8	100	75	47	-11.5	300	2.5	300	1.8	60
9	100	88	47	-12.0	VAR	0.5	VAR	1.5	60
10	100	84	47	-6.5	210	1.0	210	0.7	62
11	100	89	47	1.5	240	1.0	240	0	61
12	100	98	49	4.0	C	C	C	1.4	55
13	100	98	49	1.5	210	1.5	210	5.5	52
14	100	59	49	-5.0	290	4.0	290	7.0	50
15	100	40	49	-12.5	340	3.0	340	0	47
16	100	61	49	-6.5	VAR	0.5	VAR	0.2	45
17	100	91	49	-0.5	VAR	0.5	VAR	2.8	45
18	100	74	49	-1.0	VAR	0.5	VAR	0	44
19	100	74	49	0.5	060	1.0	060	0	42
20	100	71	49	-1.0	VAR	0.5	VAR	0	41
21	100	92	56	-3.0	190	1.0	190	6.3	40
22	100	71	49	-2.0	300	1.5	300	0.8	38
23	100	69	49	-3.5	300	1.5	300	T	37
24	100	67	49	-2.5	220	1.0	220	0	35
25	100	74	49	3.0	240	1.0	240	0	31
26	100	91	49	.5	220	2.5	220	11.0	19
27	100	48	49	-15.5	300	4.5	300	0	18
28	100	46	49	-16.5	310	3.0	310	0	17
29	100	67	49	-7.0	270	1.0	270	0	16
30	100	67	49	-0.5	VAR	0.5	VAR	0	12
31	100	87	49	3.0	VAR	0.5	VAR	7.3	2
AVG	100	75	49	-5.5	VAR	1.5	VAR	69.3 (Total)	7.0

Monthly Max = 16°C  
 Monthly Min = -14°C  
 Peak Gust = 16 MPS on 28 Mar

APRIL 1982

Table B1 (cont'd).

CRREL

Date	Temperature (°C)			Rel. Hum. %		Mean Dew Point	Wind		Precipitation		
	Max	Min	Avg	Max	Min		Avg. Speed	Dir	Dirly	Dirly	Snow Depth (cm)
1	9.5	0.0	5.0	98	44	60	4.0	260	5.5	0.4	0
2	5.0	-4.0	0.5	97	36	59	3.5	360	7.0	0	
3	6.0	-6.0	0.0	100	44	85	2.0	180	4.5	8.9	
4	3.0	-5.5	-1.0	100	50	67	3.0	270	6.0	1.5	
5	2.0	-9.0	-3.5	73	34	49	3.5	350	6.0	.5	
6	-6.5	-9.5	-8.0	100	51	80	4.0	020	7.0	5.9	
7	-5.5	-12.0	-9.0	78	52	63	6.0	340	8.0	.6	28
8	1.5	-7.5	-3.0	58	34	47	4.0	300	7.0	T	25
9	8.0	-9.0	-0.5	85	30	47	1.5	330	3.0	0	22
10	8.5	-6.0	3.0	100	37	62	2.0	290	5.0	0	
11	12.0	-4.0	4.0	100	36	73	1.5	260	2.5	.9	
12	8.0	-3.0	2.5	100	50	81	1.0	330	3.0	2.7	5
13	8.0	-3.0	2.5	100	63	89	1.5	240	4.5	2.0	0
14	10.0	-1.5	4.5	87	30	52	3.0	330	5.5	0.1	
15	15.0	-4.0	5.5	100	24	64	0.5	VAR	3.0	0	
16	20.0	3.0	11.5	100	30	65	1.5	220	4.0	0	
17	16.0	1.0	8.5	100	74	91	2.0	220	5.0	6.1	
18	13.0	0.0	6.5	100	41	56	4.0	270	6.5	5.7	
19	16.5	-4.0	6.5	99	30	59	1.5	240	4.0	0	
20	21.0	-0.5	10.5	100	32	53	3.0	310	6.0	0	
21	12.0	0.5	6.5	100	32	58	3.5	270	6.5	0.4	
22	4.0	-4.5	-0.5	100	42	58	2.0	310	4.0	0	
23	17.0	-6.0	5.5	100	30	54	2.5	240	4.5	0	
24	20.0	3.5	12.0	100	38	68	1.0	040	3.0	0	
25	24.5	-1.0	12.0	100	24	59	1.5	240	4.0	0	
26	20.0	4.0	12.0	100	52	85	1.5	210	4.0	5.3	
27	20.5	8.0	14.5	100	57	81	2.0	360	5.5	4.0	
28	13.0	1.0	7.0	84	31	54	5.0	010	7.5	0	
29	16.5	-2.5	7.0	100	29	61	2.0	350	5.5	0	
30	20.5	-1.5	9.5	100	23	55	2.0	350	6.0	0	
AVG	11.3	-2.8	4.5	100	23	65	2.5	NNW	7.5	45.5	
										(Total)	

Monthly Max = 24°C  
 Monthly Min = -12°C  
 Peak Gust = 21.5 MPS on 7 Apr.

OCTOBER 1980

MT. WASHINGTON

Table B1 (cont'd).

Day	Temperature (°C)		Relative Humidity %		Dew Point (°C) Mean	Speed	Wind (mph) †		Dir.	Time	Precipitation (mm) Amount
	Max	Min	Max	Mean			Dir.	Peak			
1	6.1	3.9	100	79	3.33	13.5	SW	35	SW	2000	0.0
2	6.7	2.2	100	96	6.11	27.7	S	58	SW	1750	21.1
3	3.9	1.1	100	86	2.22	13.1	W	55	W	0105	15.7
4	3.9	-2.2	100	100	-2.22	23.7	W	56	W	1505	24.4
5	-0.6	-2.8	100	83	-2.22	9.5	W	25	W	0010	0.0
6	0.0	-3.9	100	81	-3.33	5.8	W	21	W	1400	0.0
7	-1.7	-4.4	100	77	-3.89	10.9	W	35	W	2345	0.3
8	4.4	-3.9	100	66	-2.22	46.9	W	108	W	2205	0.3
9	3.3	-9.4	100	100	-5.56	61.7	W	106	W	0440	0.3
10	1.7	-10.6	100	16	-17.22	34.4	W	83	NW	0335	0.8
11	5.6	-0.6	100	100	2.78	36.3	SW	78	W	0530	17.5
12	0.6	-6.7	100	16	-2.78	36.6	W	93	W	1955	15.5
13	-6.1	-10.0	100	100	-8.33	64.1	NW	109	NW	2020	7.1
14	-8.9	-12.2	100	100	-10.56	67.3	NW	102	NW	0040	0.8
15	-4.4	-11.1	100	27	-8.33	25.0	W	53	W	0005	0.0
16	0.6	-6.1	100	23	-6.67	37.1	W	56	W	1600	0.0
17	7.2	-0.6	100	27	3.33	38.8	W	71	S	2340	0.0
18	7.8	1.7	100	100	4.44	55.4	W	85	SW	0355	25.7
19	2.8	-5.6	100	94	-1.11	45.4	W	70	W	1055	2.5
20	-5.6	-10.6	100	73	-6.67	40.8	W	74	W	1355	10.7
21	-5.0	-10.6	100	100	-8.33	36.9	W	66	W	2000	3.0
22	-5.6	-12.2	100	100	-8.89	56.0	W	85	SW	2305	6.1
23	-7.2	-13.3	100	100	-11.67	56.4	W	87	W	0310	0.8
24	1.1	-8.9	100	14	-15.00	16.3	N	41	SE	2305	0.0
25	2.2	-5.6	100	27	-15.00	62.8	E	123	E	1615	24.1
26	1.7	-10.6	100	31	-4.44	84.5	W	128	W	1240	25.1
27	-8.9	-12.8	100	100	-10.56	73.1	W	128	W	0025	3.6
28	-6.1	-13.9	100	100	-8.89	39.9	W	81	W	2105	5.8
29	-10.6	-14.4	100	100	-12.78	58.2	W	94	W	0440	1.8
30	-5.6	-11.7	100	81	-10.00	29.9	W	52	W	0020	0.0
31	-5.6	-8.3	100	45	-10.56	49.4	W	75	W	1910	0.8
Monthly			100	14	-5.5	40.5		128		1240	Total
Ave =											213.8
Max =	7.8										
Min =	-14.4										

† - Conversion mph to m/s, mph x .447

Table B1 (cont'd).

NOVEMBER 1980

MT. WASHINGTON

Day	Temperature (°C)		Relative Humidity %		Dew Point (°C) Mean	Speed	Wind (mph)		Dir.	Time	Precipitation (mm) Amount	
	Max	Min	Max	Min			Dir.	Peak				
1	-7.2	-12.2	100	100	-9.44	61.1	W	99	W	1855	15.0	
2	-11.7	-16.1	100	100	-13.33	60.4	W	101	W	0435	11.4	
3	0.6	-15.6	100	16	-17.78	35.8	W	61	SW	2235	0.0	
4	1.7	-2.2	100	55	-2.78	45.8	SW	83	SW	1225	0.5	
5	-0.6	-16.7	100	100	-6.11	60.8	W	98	W	1915	2.8	
6	-7.2	-17.2	100	59	-13.33	53.6	W	87	W	0002	0.0	
7	0.6	-8.3	100	100	-4.44	47.5	W	79	SW	2152	15.2	
8	1.1	-17.2	100	33	-6.11	64.8	W	106	W	1928	7.9	
9	0.0	-8.3	100	33	-9.44	45.8	SW	94	SW	1445	0.8	
10	-2.8	-16.7	100	100	-8.33	44.4	W	78	W	1807	9.7	
11	-8.3	-16.7	100	100	-15.00	63.9	W	102	W	1322	8.6	
12	-3.3	-13.3	100	100	-7.78	62.4	NW	91	NW	1310	4.3	
13	-2.2	-10.6	100	38	-12.22	61.3	W	106	W	0435	0.0	
14	-3.3	-13.9	100	100	-6.67	58.3	W	93	W	0500	5.1	
15	-10.3	-15.6	100	33	-16.67	45.2	W	79	W	2130	3.6	
16	-8.9	-18.9	100	67	-17.22	62.0	NW	107	NW	1750	3.3	
17	-5.0	-10.6	84	33	-15.00	19.5	SW	81	NW	0015	1.8	
18	-8.9	-16.1	100	100	-10.56	26.4	N	76	N	1940	30.5	
19	-13.9	-17.8	100	68	-17.22	49.3	NW	76	NW	2215	3.6	
20	-7.2	-14.4	100	56	-12.78	40.4	NW	76	NW	0440	3.0	
21	-6.7	-11.1	100	46	-13.89	25.1	SW	59	SW	1045	0.0	
22	-5.0	-11.1	100	24	-12.22	56.3	NW	102	NW	0825	2.5	
23	0.6	-5.6	60	25	-16.11	40.8	W	61	W	0430	0.1	
24	1.1	-3.3	100	56	-1.67	44.5	SW	72	SW	1350	24.4	
25	1.1	-14.4	100	92	-2.22	29.9	W	93	W	2335	8.6	
26	-11.1	-16.1	100	47	-18.33	89.0	NW	146	NW	0810	5.1	
27	0.6	-14.4	48	2	-25.56	33.3	N	93	NW	0030	0.0	
28	-1.7	-7.2	100	10	-16.67	48.8	SE	92	SE	2020	100.8	
29	-2.2	-12.2	100	100	-8.33	50.4	W	81	W	1055	11.4	
30	-10.6	-14.4	100	100	-12.22	65.9	W	104	W	0435	13.5	
31												
Monthly			100	2	79.8	49.8		146		0810		
Ave =					-11.6							Total
Max =	1.7											293.5
Min =		-18.9										

† - Conversion mph to m/s, mph x .447

DECEMBER 1980

MT. WASHINGTON

Table B1 (cont'd).

Day	Temperature (°C)			Relative Humidity %		Dew Point (°C)		Wind (mph)		Time	Precipitation (mm) Amount
	Max	Min	Mean	Max	Min	Mean	Speed	Dir.	Peak		
1	-6.1	-11.7	-8.9	100	100	-8.33	51.8	W	90	W	0.0
2	-1.7	-7.8	-4.7	100	40	-7.22	35.6	S	87	S	2.5
3	-1.7	-23.3	-12.5	100	100	-11.67	59.6	W	151	NW	36.8
4	-17.2	-23.9	-20.6	100	79	-21.67	69.9	NW	178	NW	0.1
5	-7.2	-17.2	-12.2	100	51	-13.89	28.7	NW	106	NW	0.3
6	0.6	-7.8	-3.6	100	46	-15.56	28.7	N	75	N	0.0
7	3.3	-2.2	0.6	73	17	-15.00	16.5	N	36	N	0.1
8	2.8	-3.3	-0.3	100	24	0.56	46.2	W	136	W	15.2
9	-3.3	-16.7	-10.0	100	43	-14.44	59.3	W	146	W	2.3
10	-11.1	-17.8	-14.4	100	87	-13.89	43.6	W	91	W	2.5
11	-17.8	-30.6	-24.2	100	19	-26.67	64.1	W	104	W	2.0
12	-12.2	-25.0	-18.6	100	100	-22.22	44.0	W	81	SW	6.3
13	-9.4	-22.2	-15.8	100	100	-12.78	58.6	W	86	W	8.1
14	-18.3	-34.4	-26.4	100	30	-25.00	60.6	W	130	W	2.8
15	-17.8	-35.6	-26.7	100	100	-28.33	62.7	W	118	W	0.8
16	-8.9	-18.3	-13.6	100	100	-12.78	28.6	SE	58	S	9.4
17	-10.6	-22.8	-16.7	100	24	-26.67	42.4	W	75	W	0.0
18	-11.1	-16.1	-13.6	100	6	-23.89	81.3	W	98	SW	6.3
19	-12.2	-32.8	-22.5	100	6	-20.00	69.2	W	114	W	4.8
20	-26.1	-31.1	-28.6	100	66	-31.11	63.0	NW	92	W	0.0
21	-26.1	-30.6	-28.3	100	100	-28.89	83.0	W	130	W	0.0
22	-18.3	-27.2	-22.8	100	59	-23.89	49.9	W	76	W	0.5
23	-8.9	-18.9	-13.9	100	92	-16.11	51.0	W	78	SW	0.0
24	-6.7	-25.6	-16.1	100	27	-13.33	43.4	W	68	W	7.1
25	-24.4	-38.3	-31.4	100	91	-33.89	84.1	NW	135	NW	0.0
16	-20.0	-31.1	-25.6	100	61	-25.56	49.5	W	81	NW	0.8
27	-11.7	-21.7	-16.7	100	22	-28.33	20.9	W	46	W	0.1
28	-3.9	-14.4	-9.2	100	10	-19.44	53.4	SW	94	SW	0.8
29	0.0	-5.6	-2.8	100	9	-4.44	37.2	W	81	W	0.1
30	-4.4	-24.4	-14.4	100	16	-18.89	43.3	NW	99	NW	0.0
31	-10.0	-24.4	-17.2	100	55	-28.89	54.8	NW	112	NW	0.0
Monthly				100	6	-19.1	51.9		178	0435	Total 109.7
Ave =	3.3		-15.9								
Max =			0.6								
Min =		-38.3									

1 - Conversion mph to m/s, mph x .447

JANUARY 1981

Table B1 (cont'd).

MT. WASHINGTON

Day	Temperature (°C)			Relative Humidity %		Dew Point (°C)		Wind (mph)		Dir.	Time	Precipitation (mm) Amount
	Max	Min	Mean	Max	Min	Mean	Speed	Dir.	Peak			
1	-9.4	-15.6	-12.5	100	2	51	-30.56	17.0	W	33	1925	0.5
2	-12.2	-35.6	-23.9	100	100	100	-15.56	39.0	W	109	2225	3.6
3	-31.1	-39.4	-35.3	100	18	59	-37.22	77.0	W	123	0220	0.0
4	-21.7	-38.9	-30.3	100	17	58.5	-41.67	56.0	W	105	2050	0.1
5	-15.0	-26.1	-20.6	100	36	68	-23.89	66.3	NW	113	0145	1.5
6	-10.6	-20.0	-15.3	100	62	81	-20.56	36.6	SW	68	2225	2.3
7	-11.7	-28.9	-20.3	100	100	100	-14.44	40.3	W	71	0030	5.3
8	-26.7	-34.4	-30.6	100	100	100	-30.00	73.9	W	115	0315	1.0
9	-18.9	-27.2	-23.1	67	28	47.5	-29.44	21.7	W	59	0010	0.0
10	-19.4	-31.7	-25.6	100	82	91	-23.89	27.3	NW	66	2355	0.3
11	-29.4	-33.9	-31.7	100	100	100	-31.67	58.4	NW	85	0505	1.0
12	-19.4	-31.7	-25.6	100	35	67.5	-28.89	18.5	W	58	0010	0.0
13	-15.6	-22.2	-18.9	61	34	47.5	-28.33	13.0	NW	28	0845	0.0
14	-16.7	-23.3	-20.0	100	32	66	-24.44	31.9	W	58	0330	0.1
15	-13.9	-18.9	-16.4	100	38	69	-18.33	31.4	W	53	0650	0.0
16	-12.2	-15.0	-13.6	100	28	64	-21.67	14.8	W	26	0530	1.0
17	-13.9	-22.8	-18.3	100	61	80.5	-18.89	19.6	NW	58	2135	1.0
18	-16.1	-22.2	-19.2	100	34	67	-21.11	64.8	NW	100	2105	0.8
19	-12.2	-18.9	-15.6	100	100	100	-16.11	76.5	W	121	2235	2.5
20	-11.7	-22.2	-16.9	100	20	60	-22.78	67.5	W	147	0340	0.5
21	-10.0	-16.7	-13.3	51	20	35.5	-26.11	42.6	NW	70	0625	0.0
22	-9.4	-16.1	-12.8	100	8	54	-21.11	40.3	W	75	0840	2.5
23	-15.0	-17.8	-16.4	100	85	92.5	-16.11	28.2	NW	55	0745	1.0
24	-15.6	-20.0	-17.8	100	83	91.5	-18.33	16.6	NW	35	2340	0.1
25	-5.6	-21.1	-13.3	100	>1%	50	-28.33	44.8	W	71	0405	0.1
26	-0.6	-7.8	-4.2	100	35	67.5	-9.44	60.0	W	99	2230	0.0
27	-6.1	-12.8	-9.4	100	100	100	-8.89	60.5	W	101	0035	4.3
28	-12.8	-20.0	-16.4	100	57	78.5	-19.44	52.7	W	76	0558	1.3
29	-13.3	-25.0	-19.2	100	42	72	-16.67	32.2	NW	78	2146	0.3
30	-18.3	-27.8	-23.1	100	28	55	-27.78	56.6	NW	93	0417	2.0
31	-8.9	-22.2	-15.6	36	13	24.5	-29.44	54.7	NW	87	0625	0.0
Monthly				100	2	70.0	-23.3	44.7		147	0340	
Ave =												Total
Max =	-0.6		-20.4									33.1
Min =		-39.4	-35.3									

† - Conversion mph to m/s, mph x .447

MT. WASHINGTON

Table B1 (cont'd)

FEBRUARY 1981

Day	Temperature (°C)		Relative Humidity %		Dew Point (°C) Mean	Speed	Wind (mph)		Dir.	Time	Precipitation (mm) Amount	
	Max	Min	Max	Min			Dir.	Peak				
1	-5.0	-10.6	100	31	-21.67	44.9	SW	106	S	1948	8.1	
2	0.6	-17.2	100	100	-3.33	56.4	SW	113	SW	1403	41.7	
3	-16.7	-28.3	100	100	-22.22	54.9	W	93	W	0005	2.3	
4	-20.6	-28.9	100	71	-24.7	24.5	W	74	W	0010	3.6	
5	-20.6	-27.8	100	72	-27.78	35.8	W	64	W	1515	0.5	
6	-16.7	-22.2	100	33	-23.33	52.4	SW	81	SW	1415	1.0	
7	-12.8	-18.9	100	44	-17.78	36.5	W	72	W	0155	6.1	
8	-5.0	-13.3	100	87	-10.00	25.1	SW	62	S	0750	10.9	
9	-10.6	-21.1	100	100	-16.11	62.7	W	106	W	0455	7.6	
10	-6.1	-21.1	100	20	-22.78	48.5	W	109	S	2205	0.1	
11	6.1	-14.4	100	100	-3.33	71.5	SE	122	S	1740	85.3	
12	0.0	-27.2	100	43	-19.44	78.5	W	146	W	0755	1.3	
13	-13.9	-26.7	63	27	-21.67	35.7	W	66	W	1715	0.0	
14	-11.7	-18.9	100	23	-22.22	54.0	W	87	W	1335	0.5	
15	-5.0	-17.2	76	2	-31.67	35.2	W	60	W	0005	0.0	
16	-0.6	-6.1	66	33	-3.89	53.0	W	89	SW	2350	0.1	
17	-2.2	-5.0	100	100	-3.89	57.1	W	90	SW	0033	0.3	
18	2.8	-4.4	100	29	-6.67	42.2	W	75	W	0340	0.5	
19	2.8	-1.7	100	84	0.00	26.8	SW	52	SW	1425	1.3	
20	2.2	0.0	100	100	1.11	58.8	SE	100	SE	1320	125.0	
21	2.2	-0.6	100	100	0.56	53.8	SE	99	E	0225	84.1	
22	2.8	-1.7	100	100	-7.78	21.3	SE	58	SE	0020	2.5	
23	1.7	-2.2	100	9	-24.44	42.4	S	79	SE	1840	2.3	
24	0.0	-8.3	100	100	-2.78	51.8	SE	82	SE	0545	71.6	
25	-3.9	-8.3	100	100	-6.67	51.3	E	91	NE	0856	38.9	
26	-0.6	-6.7	100	100	-3.33	35.8	N	63	NE	0020	4.1	
27	-3.9	-10.0	100	21	-10.56	38.5	N	78	N	1710	0.0	
28	-1.7	-8.9	100	40	-11.67	27.5	N	66	W	2350	3.8	
29												
30												
31			100	2	-13.6	45.6		146		0755		

Monthly

Ave = -9.2  
 Max = 6.1  
 Min = -28.9 -24.7

Total  
 503.5

† - Conversion mph to m/s, mph x .447



MT. WASHINGTON

Table B1 (cont'd).

MARCH 1981

Day	Temperature (°C)		Relative Humidity %		Dew Point (°C)		Wind (mph)		Dir.	Time	Precipitation (mm) Amount
	Max	Min	Max	Min	Mean	Mean	Speed	Peak			
1	-7.2	-12.8	100	100	-10.00	100	62.8	91	W	1545	8.4
2	-9.4	-15.6	100	100	-12.22	100	35.3	63	NW	0010	5.6
3	-14.4	-24.4	100	100	-19.4	100	44.5	125	W	2310	0.5
4	-14.4	-23.9	100	43	-21.67	71.5	39.5	68	NW	0045	0.1
5	-10.0	-18.3	84	24	-22.78	54	23.0	52	N	0210	0.1
6	-7.8	-11.7	100	100	-25.56	100	32.8	53	NE	2350	2.5
7	-6.7	-10.6	100	84	-26.11	92	33.9	66	NE	1130	1.3
8	-4.4	-11.7	46	26	-18.33	36	9.1	20	N	0240	0.0
9	-8.3	-13.9	100	69	-11.11	84.5	35.8	64	NW	2330	1.8
10	-11.1	-15.0	100	100	-13.33	100	51.3	81	NW	0845	4.8
11	-7.2	-16.1	100	100	-12.22	100	28.2	52	W	2305	4.6
12	-10.0	-16.7	100	88	-15.00	94	27.1	49	W	2248	3.6
13	-7.8	-12.2	100	100	-10.56	100	44.6	77	W	1443	4.6
14	-12.2	-23.3	100	100	-17.78	100	61.9	115	W	1827	5.8
15	-7.2	-23.3	100	23	-20.00	61.5	67.8	117	W	0005	1.3
16	-6.7	-20.0	100	33	-14.44	66.5	38.9	75	W	0248	4.8
17	-17.8	-22.2	100	22	-26.67	61	71.5	120	NW	2335	0.0
18	-17.8	-23.9	100	100	-21.11	100	78.1	122	W	0015	3.3
19	-12.8	-22.8	100	81	-18.33	90.5	17.6	56	SE	0030	1.5
20	-11.7	-17.2	100	53	-16.67	76.5	18.8	43	SE	2010	5.6
21	-9.4	-13.3	100	100	-11.67	100	31.5	58	NE	0200	3.3
22	-8.3	-13.3	90	19	-16.11	54.5	9.6	23	N	1525	0.0
23	-5.6	-11.7	84	10	-17.22	47	6.3	15	N	0155	0.0
24	-5.6	-11.1	100	80	-11.11	90	10.3	29	NE	2215	1.8
25	-7.8	-11.7	100	54	-11.67	77	20.8	51	W	1746	0.1
26	-5.6	-11.1	79	43	-14.44	43	19.0	40	SW	2310	0.0
27	-5.6	-11.7	100	78	-7.78	89	33.6	71	N	1650	11.7
28	-4.4	-11.7	61	21	-20.56	41	47.0	84	W	2250	0.1
29	3.9	-4.4	100	62	-4.44	81	79.6	108	W	1315	3.0
30	6.1	1.1	100	66	1.67	83	45.0	78	W	0100	14.7
31	1.7	-5.0	100	74	-2.22	87	48.5	101	W	0850	0.0
Monthly			100	7	-15.1	80.0	37.9	125		2310	Total
Ave =											93.9
Max =	6.1	-11.6									
Min =	24.4	-20.8									

† - Conversion mph to m/s, mph x .447



OCTOBER 1981

MT. WASHINGTON

Table B1 (cont'd).

Day	Temperature (°C)			Relative Humidity %		Dew Point (°C)		Wind (mph)		Dir.	Time	Precipitation (mm) Amount
	Max	Min	Mean	Max	Min	Mean	Speed	Dir.	Peak †			
1	4.4	-8.9	-2.2	100	20	60	-6.11	40.8	W	93	0155	2.5
2	2.8	-2.2	0.3	100	79	89.5	0.00	17.2	W	53	0010	0.1
3	-1.1	-4.4	-2.8	100	100	100	-2.78	47.5	W	94	2035	8.6
4	-3.3	-6.7	-5.0	100	100	100	-3.89	59.1	W	90	0135	7.1
5	1.7	-5.0	-1.7	100	43	71.5	-5.56	36.5	W	63	0410	0.0
6	5.0	-2.8	1.1	100	14	57	-6.67	24.8	S	60	1720	9.4
7	1.1	-5.6	-2.2	100	100	100	-2.22	40.4	W	85	2354	7.6
8	-4.4	-6.7	-5.6	100	100	100	-5.00	56.8	W	99	0728	7.6
9	-4.4	-7.8	-6.1	100	100	100	-6.11	37.0	NW	70	0238	0.8
10	-5.6	-8.3	-6.9	100	88	94	-7.22	19.6	NW	40	0910	0.0
11	-2.8	-9.4	-6.1	92	19	55.5	-13.33	16.5	N	44	0616	0.0
12	4.4	-3.9	0.3	35	14	24.5	-19.44	14.0	NE	26	0832	0.0
13	5.6	1.7	3.6	26	7	16.5	-23.89	13.0	N	22	2000	0.0
14	7.8	4.4	6.1	45	7	26	-19.44	5.9	N	14	2315	0.0
15	6.7	2.2	4.4	30	19	24.5	-12.22	21.5	SW	35	1910	0.0
16	2.8	-4.4	-0.8	100	31	65.5	-3.33	33.6	NW	71	1930	7.6
17	4.4	-6.7	-1.1	100	8	54	-14.44	24.1	NW	60	0230	0.0
18	2.8	-3.9	-0.6	100	11	55.5	-12.22	38.8	S	72	1815	36.1
19	-1.1	-10.0	-5.6	100	100	100	-5.00	55.1	W	102	2015	7.1
20	-1.7	-12.2	-6.9	100	70	85	-8.89	53.1	W	87	0220	0.5
21	1.7	-2.2	-0.3	100	83	91.5	-2.22	49.3	W	89	0100	0.1
22	3.3	0.0	1.7	100	67	83.5	-1.11	37.7	S	71	0207	0.0
23	5.0	-5.0	-0.0	100	100	100	2.78	36.6	S	83	1232	48.0
24	-5.0	-12.8	-8.9	100	19	59.5	-8.89	45.8	W	94	1225	12.4
25	-0.6	-9.4	-5.0	100	40	70	-15.00	26.1	SW	45	1800	0.0
26	7.2	-1.7	2.8	100	100	100	2.22	33.7	SW	58	1322	15.5
27	9.4	6.1	7.8	100	100	100	8.33	47.2	SW	87	0316	39.1
28	8.3	-5.0	1.7	100	14	57	2.78	25.0	NW	66	1240	33.5
29	1.7	-2.2	-0.3	30	11	20.5	-21.11	13.6	N	35	0005	0.0
30	1.7	-1.1	0.3	34	15	24.5	-18.89	6.7	SE	18	2110	0.0
31	3.3	-1.7	0.8	55	11	33	-18.89	12.5	SW	35	2305	0.0
Monthly				100	7	68.3	-8.0	31.9		102	2015	

Monthly Ave = -1.2  
 Max = 9.4  
 Min = -8.9  
 † - Conversion mph to m/s, mph x .447  
 Total 243.6

NOVEMBER 1981

Table B1 (cont'd).

MT. WASHINGTON

Day	Temperature (°C)		Relative Humidity %		Dew Point (°C)		Wind (mph)		Dir.	Time	Precipitation (mm) Amount	
	Max	Min	Max	Min	Mean	Speed	Dir.	Peak				
1	5.6	-0.6	100	13	-11.67	41.8	W	74	NW	1750	3.8	
2	3.9	-8.3	100	66	-1.67	57.8	W	121	W	2030	0.1	
3	-6.7	-11.1	100	34	-11.67	66.3	W	101	NW	0825	0.0	
4	-2.8	-8.3	100	11	-11.67	55.9	W	86	W	0140	0.0	
5	3.9	-4.4	67	9	-22.22	31.5	W	49	NW	0101	0.0	
6	3.9	-3.3	100	76	0.56	36.4	W	61	W	1520	11.7	
7	-2.8	-11.7	100	100	-6.67	28.0	W	79	NW	2026	0.5	
8	-1.1	-8.9	100	24	-10.56	52.7	NW	94	NW	0146	0.0	
9	-1.7	-15.0	100	38	-6.11	53.5	W	78	W	1643	0.0	
10	-3.9	-11.7	100	5	-31.67	25.5	SW	71	SW	2325	0.0	
11	-5.0	-13.9	100	100	-6.67	50.5	SW	75	NW	2340	4.3	
12	-3.9	-16.7	100	< 1%	-23.89	40.2	NW	81	NW	0823	1.3	
13	3.9	-5.6	70	7	-17.22	35.5	NW	60	NW	1140	0.0	
14	4.4	1.1	50	29	-9.44	29.5	N	51	E	2245	0.0	
15	3.9	0.6	100	51	-1.67	46.3	E	78	E	1040	10.2	
16	5.6	1.7	100	100	3.89	37.8	E	61	E	0325	28.7	
17	4.4	1.1	100	100	3.89	14.0	NE	32	NE	1035	17.5	
18	2.8	-8.9	100	86	-1.67	18.8	W	64	W	2050	2.0	
19	-5.0	-9.4	100	100	-8.33	51.0	NW	91	NW	0917	0.8	
20	0.0	-7.8	100	69	-5.00	22.2	S	49	SE	1431	4.1	
21	-0.6	-11.1	100	100	-5.56	46.0	W	104	W	2216	12.7	
22	-10.6	-14.4	100	100	-12.22	57.5	W	91	W	0516	3.0	
23	-12.8	-16.7	100	100	-14.44	41.5	W	71	NW	0001	1.5	
24	-10.0	-15.0	100	100	-15.56	26.9	NW	53	NW	0155	0.0	
25	-10.0	-13.9	90	59	-13.89	29.3	N	53	N	1645	0.0	
26	-3.3	-11.7	66	24	-18.89	21.6	N	52	N	0215	0.1	
27	-2.8	-8.9	100	23	-8.89	48.5	W	93	W	1800	7.4	
28	-8.9	-16.1	100	100	-11.67	61.9	W	102	W	1740	21.8	
29	-13.9	-18.3	100	100	-15.00	60.9	W	95	NW	0310	13.0	
30	-9.4	-18.3	100	49	-18.33	43.2	NW	63	NW	0400	1.0	
31												
			100	5	-10.5	41.1		121		2030		

Monthly Ave = -9.0  
 Max = 5.6  
 Min = -18.3  
 Total 145.5

1 - Conversion mph to m/s, mph x .447

DECEMBER 1981

Table B1 (cont'd).

MT. WASHINGTON

Day	Temperature (°C)		Relative Humidity %		Dew Point (°C)		Speed	Wind (mph) †		Time	Precipitation (mm) Amount
	Max	Min	Max	Min	Mean	Dir.		Peak	Dir.		
1	-1.1	-12.8	100	6	-23.33	53	25.2	S	68	2245	7.4
2	1.1	-8.3	100	100	-3.89	100	41.5	W	76	0331	5.8
3	-4.4	-9.4	100	88	-6.11	94	20.7	NW	66	2051	2.8
4	-7.8	-12.2	100	84	-10.56	92	19.2	W	64	0002	0.5
5	-11.1	-12.8	100	86	-12.22	93	21.9	N	81	2352	4.1
6	-8.9	-16.7	100	100	-13.33	100	56.7	N	109	1005	21.6
7	-4.4	-15.0	100	100	-7.78	100	44.8	NW	75	1638	1.3
8	-3.3	-11.7	100	35	-12.22	67.5	15.6	N	51	0413	0.5
9	-7.2	-16.7	100	100	-10.00	100	24.9	N	58	1945	4.6
10	-7.2	-13.3	100	100	-10.00	100	20.9	N	51	1825	2.5
11	-10.0	-13.9	100	100	-12.22	100	31.5	N	59	0500	2.5
12	-8.9	-13.3	100	13	-10.00	56.5	23.1	N	51	1445	0.8
13	-5.6	-14.4	100	6	-2.78	12.5	16.7	W	49	2355	0.0
14	-7.8	-15.0	100	49	-15.56	74.5	23.6	W	58	0330	1.3
15	-1.1	-9.4	100	65	-6.67	82.5	11.4	S	58	0240	10.9
16	-2.8	-16.7	100	100	-8.89	100	64.0	W	141	1815	27.4
17	-12.2	-18.3	100	37	-18.33	68.5	51.2	W	106	0157	6.3
18	-10.6	-15.0	100	100	-12.78	100	20.1	SW	39	0253	6.9
19	-14.4	-25.6	100	100	-18.89	100	31.2	NW	71	1829	4.3
20	-17.2	-26.1	100	49	-25.00	74.5	44.5	NW	69	0428	1.8
21	-8.3	-19.4	70	26	-27.78	48	36.9	W	87	2338	0.0
22	-5.6	-13.3	100	69	-11.11	84.5	43.6	W	77	0135	3.6
23	-3.3	-11.7	100	100	-6.67	100	41.0	W	101	1752	20.6
24	-9.4	-13.9	100	100	-11.67	100	44.6	W	67	2107	0.0
25	-13.3	-16.1	100	100	-14.44	100	57.6	W	81	0517	1.5
26	-10.6	-14.4	100	13	-15.00	56.5	34.8	W	79	0510	1.5
27	-10.6	-13.3	100	40	-16.67	70	20.4	E	56	2055	10.7
28	-8.9	-12.2	100	90	-10.00	95	18.3	W	41	2145	2.5
29	-10.0	-17.8	100	100	-12.22	100	51.6	W	105	1755	23.4
30	-16.1	-20.0	100	72	-19.44	86	59.8	NW	109	0230	3.0
31	-9.4	-17.2	100	29	-23.33	64.5	30.1	W	54	0130	0.0
			100	6	-13.2	83.0	33.8		141	1815	

Monthly Ave = -11.2 Max = 1.1 Min = -26.1 † - Conversion mph to m/s, mph x .447

Total 180.2

Table B1 (cont'd).

JANUARY 1982

MT. WASHINGTON

Day	Temperature (°C)			Relative Humidity %		Dew Point (°C)		Speed		Wind (mph) <sup>†</sup>		Time	Precipitation (mm) Amount
	Max	Min	Mean	Max	Min	Mean	Mean	Dir.	Dir.	Peak	Dir.		
1	-5.6	-12.8	-9.2	100	100	100	-11.11	42.8	S	87	NW	2325	30.2
2	-12.2	-21.1	-16.7	100	25	62.5	-18.89	80.0	NW	123	NW	1040	7.1
3	-1.7	-14.4	-8.1	100	7	53.5	-16.67	22.5	W	51	S	1417	0.1
4	1.7	-10.6	-4.4	100	100	100	-4.44	50.6	S	95	S	2022	39.1
5	-5.6	-24.4	-15.0	100	100	100	-14.44	84.3	W	139	S	1355	5.1
6	-8.9	-22.8	-15.8	100	35	67.5	-18.89	57.4	W	94	W	0030	2.8
7	-8.9	-23.3	-16.1	100	100	100	12.78	50.8	W	102	W	2325	4.8
8	-22.8	-30.0	-26.4	100	100	100	-27.22	69.2	W	102	W	0325	4.8
9	-21.7	-27.2	-24.4	100	80	90	-24.44	36.8	W	79	W	0330	1.0
10	-26.7	-35.6	-31.1	100	100	100	-31.11	38.3	W	87	W	1905	1.3
11	-26.1	-33.3	-29.7	100	76	88	-32.22	28.6	W	51	W	0140	0.8
12	-16.1	-33.9	-25.0	100	63	81.5	-30.00	38.5	NW	85	NW	1035	0.1
13	-12.8	-19.4	-16.1	100	10	55	-28.89	33.4	SW	59	SW	2200	4.3
14	-6.1	-14.4	-10.3	100	100	100	-11.67	13.8	SE	44	W	0025	2.8
15	-10.0	-26.1	-18.1	100	72	86	-19.44	55.8	NW	98	NW	1705	2.3
16	-12.8	-26.1	-19.4	100	18	59	-21.11	51.0	W	87	W	0000	5.1
17	-21.1	-39.4	-30.3	100	100	100	-33.33	92.7	W	136	W	1238	1.8
18	-28.9	-38.3	-33.6	100	100	100	33.89	90.5	W	128	W	0217	0.5
19	-13.9	-31.1	-22.5	100	23	61.5	-31.11	60.6	NW	99	NW	0139	0.0
20	-14.4	-28.9	-21.7	100	52	76	-20.56	66.9	W	116	W	1605	4.1
21	-21.1	-25.0	-23.1	100	24	43	-33.33	54.4	NW	92	NW	0005	0.0
22	-11.1	-26.7	-18.9	45	14	29.5	-36.11	57.5	NW	106	NW	0245	0.0
23	-5.0	-20.6	-12.8	100	12	56	-23.89	44.2	S	94	S	1015	34.3
24	-6.7	-26.1	-16.4	100	100	100	-16.67	59.8	W	94	W	1625	7.6
25	-26.1	-32.8	-29.4	100	100	100	-29.44	74.9	W	101	W	1205	0.5
26	-23.3	-31.1	-27.2	100	72	86	-28.89	57.2	W	90	W	0405	0.0
27	-11.7	-24.4	-18.1	100	14	57	-30.56	24.5	N	58	N	0050	0.0
28	-6.1	-13.9	-10.0	100	18	59	-25.56	59.9	SW	102	W	2033	5.8
29	-11.7	-23.3	-17.5	100	81	90.5	-18.89	81.0	W	122	W	0145	4.3
30	-6.7	-16.7	-11.7	100	32	66	-16.67	60.3	W	116	S	1417	13.7
31	-4.4	-16.7	-10.6	100	69	84.5	-15.56	49.7	W	104	W	0222	21.8
Monthly				100	7	79.1	-20.1	54.4		139		1355	
Ave =													Total
Max =	1.7		-19.1										203.7
Min =		-39.4	-33.6										

† - Conversion mph to m/s, mph x .447

FEBRUARY 1982

Table B1 (cont'd).

MT. WASHINGTON

Day	Temperature (°C)		Relative Humidity %		Dew Point (°C)		Wind (mph) <sup>1</sup>		Dir.	Time	Precipitation (mm) Amount
	Max	Min	Max	Min	Mean	Mean	Speed	Peak			
1	-0.6	-20.6	100	77	88.5	-10.56	68.5	137	NW	1810	10.9
2	-3.9	-11.7	33	4	18.5	-28.89	30.8	70	NW	0020	0.0
3	3.3	-7.2	100	100	100	-4.44	56.5	131	SW	2330	32.3
4	2.2	-15.6	100	22	61	-10.56	61.7	116	W	0540	3.3
5	-11.7	-16.1	100	30	65	-11.67	35.2	63	SW	2205	4.1
6	-7.2	-24.4	100	100	100	-16.11	72.2	112	W	1125	10.7
7	-18.3	-26.1	100	47	73.5	-23.89	71.2	107	W	1925	0.0
8	-17.2	-19.4	100	100	100	-18.33	62.4	98	W	1430	6.9
9	-12.2	-19.4	100	78	89	-16.11	41.9	77	W	0025	9.4
10	-13.3	-23.9	100	80	90	-20.00	60.2	106	W	0805	4.6
11	-15.6	-25.6	100	51	75.5	-23.89	51.5	79	W	2153	0.0
12	-14.4	-22.8	100	26	63	-23.33	41.3	87	W	0411	1.8
13	-13.9	-23.9	100	48	74	-19.44	21.8	84	NW	1132	2.5
14	-16.1	-23.9	100	58	79	-22.22	51.5	77	NW	0414	2.0
15	-6.1	-16.1	100	22	61	-14.44	62.0	106	SW	1055	0.3
16	-6.1	-18.3	100	49	74.5	-12.78	64.6	93	W	0722	3.8
17	-10.0	-16.1	23	3	13	-39.44	37.8	82	NW	0030	0.0
18	-5.0	-12.2	27	8	17.5	-31.11	10.4	40	SW	2310	0.0
19	-5.0	-11.1	100	8	54	-18.89	39.2	79	W	1230	3.3
20	-7.8	-9.4	100	89	94.5	-8.89	25.5	56	N	0655	0.3
21	-7.2	-11.1	100	87	93.5	-10.56	19.3	40	NE	2255	0.8
22	-5.6	-13.9	100	93	96.5	-10.56	27.6	53	N	0405	1.3
23	-5.0	-17.8	100	57	78.5	-10.00	39.6	117	W	2115	5.3
24	-14.4	-25.0	100	11	55.5	-26.67	64.1	127	NW	0323	1.5
25	-25.0	-31.7	100	77	88.5	-29.44	86.0	133	NW	2125	1.3
26	-22.2	-31.1	100	77	38.5	-28.89	78.2	116	W	0210	1.5
27	-20.0	-22.8	100	82	91	-21.11	61.7	93	W	0744	3.0
28	-17.8	-25.0	100	19	59.5	-31.11	66.0	101	NW	1732	1.8
29											
30											
31			100	3	71.2	-19.4	50.3	137		1810	
Total											102.7

Monthly

Ave = -15.0  
 Max = 3.3  
 Min = -26.1  
 -28.3

<sup>1</sup> - Conversion mph to m/s, mph x .447

MARCH 1982

MT. WASHINGTON

Table B1 (cont'd).

Day	Temperature (°C)			Relative Humidity %		Dew Point (°C)		Speed		Wind (mph) †		Dir.	Time	Precipitation (mm) Amount
	Max	Min	Mean	Max	Min	Mean	Mean	Dir.	Peak	Dir.	Peak			
1	-11.7	-17.8	-14.7	100	16	58	-28.89	39.7	SW	90	SW	2320	2.3	
2	-11.7	-21.7	-16.7	100	100	100	-16.11	60.6	W	97	W	2352	3.0	
3	-18.3	-25.6	-21.9	100	55	77.5	-25.56	61.2	NW	94	W	0815	1.8	
4	-9.4	-18.3	-13.9	100	13	56.5	-23.89	34.8	W	85	SW	1920	9.4	
5	-1.1	-16.7	-8.9	100	100	100	-8.89	65.2	W	116	SW	0410	3.6	
6	-1.1	-17.2	-9.2	94	11	52.5	-23.89	35.4	W	61	W	0215	0.1	
7	0.0	-10.6	-5.3	100	100	100	-0.56	26.6	SW	63	S	0005	30.7	
8	-9.4	-25.0	-17.2	100	100	100	-15.56	60.6	W	101	W	0820	3.3	
9	-15.0	-20.6	-17.8	100	10	55	-28.33	32.5	W	62	SW	1545	3.8	
10	-3.9	-16.7	-10.3	100	39	69.5	-17.22	29.3	SW	82	SW	2359	0.5	
11	0.6	-7.8	-3.6	100	100	100	-2.78	65.6	W	94	SW	1744	3.8	
12	1.1	-3.9	-1.4	100	39	69.5	-0.56	16.7	W	67	W	0125	0.1	
13	1.1	-10.0	-4.4	100	30	65	-6.11	47.3	SW	101	W	101	2.5	
14	-9.4	-16.7	-13.1	100	75	87.5	-12.22	81.8	W	129	W	2144	7.9	
15	-15.0	-18.9	-16.9	100	55	77.5	-20.00	76.8	NW	122	NW	2213	0.0	
16	-3.3	-16.1	-9.7	53	18	35.5	-22.22	46.8	NW	121	NW	0014	0.0	
17	-5.6	-10.6	-8.1	100	31	65.5	-13.33	21.2	N	51	N	2255	2.8	
18	-3.9	-10.0	-6.9	63	36	49.5	-17.22	12.3	N	43	N	0035	0.3	
19	-7.2	-11.1	-9.2	100	84	92	-10.00	7.5	N	26	W	1820	0.3	
20	-8.3	-12.2	-10.3	100	79	89.5	-11.67	24.9	NW	41	W	1715	0.1	
21	-7.2	-10.6	-8.9	100	27	63.5	-12.78	26.7	S	58	SE	1735	11.7	
22	-8.3	-12.8	-10.6	100	100	100	-10.56	57.7	W	89	W	0955	16.3	
23	-11.7	-14.4	-13.1	100	74	87	-13.33	46.4	W	76	W	0810	3.8	
24	-6.1	-12.2	-9.2	100	60	80	-13.33	24.7	W	53	SW	2338	0.0	
25	-1.1	-6.1	-3.6	100	82	91	-5.00	34.1	S	69	S	2222	0.0	
26	-1.1	-15.6	-8.3	100	58	79	-6.11	54.8	S	95	S	0932	17.8	
27	-14.4	-27.8	-21.1	100	100	100	-21.67	85.7	W	128	W	2008	4.3	
28	-18.3	-29.4	-23.9	100	66	83	-27.22	79.3	W	118	W	0508	0.0	
29	-8.3	-18.9	-13.6	100	72	86	-17.22	56.2	W	83	W	1316	0.0	
30	-1.7	-9.4	-5.6	100	20	60	-15.00	27.3	W	51	W	0210	0.0	
31	2.2	-3.3	-0.6	100	100	100	-2.78	40.3	SW	81	W	2335	11.4	
Monthly				100	10	78.4	-14.5	44.5		129		2144		
Ave =													Total	141.1
Max =	2.2		-10.9											
Min =		-29.4	-23.9											

† - Conversion mph to m/s, mph x .447



APRIL 1982

MT. WASHINGTON

Table B1 (cont'd).

Day	Temperature (°C)		Relative Humidity %		Dew Point (°C)		Wind (mph) †		Dir.	Time	Precipitation (mm) Amount
	Max	Min	Max	Min	Mean	Speed	Dir.	Peak			
1	-3.3	-12.8	100	100	-7.78	79.7	W	132	W	0605	11.4
2	-5.6	-20.6	100	13	-22.22	74.6	NW	123	W	1010	3.6
3	-11.1	-6.4	100	12	-17.22	47.1	S	110	SE	1840	38.6
4	-1.7	-20.0	100	100	-9.44	48.7	W	94	W	1840	9.7
5	-18.3	-25.6	100	82	-21.67	69.1	W	110	NW	1250	1.3
6	-7.2	-22.8	100	7	-17.78	33.6	N	102	N	2140	15.5
7	-21.1	-27.2	100	100	-23.89	88.3	NW	162	NW	1815	36.6
8	-17.2	-24.4	100	100	-21.67	98.1	W	140	W	0140	7.9
9	-12.8	-18.9	100	60	-18.89	76.0	W	116	W	0039	0.0
10	-10.0	-17.8	100	65	-16.67	82.5	W	136	W	0848	0.0
11	-4.4	-12.8	100	63	-10.00	23.4	W	70	W	0626	1.0
12	-7.8	-10.0	100	100	-8.89	29.8	NW	66	W	2045	4.1
13	-0.6	-11.1	100	58	-8.33	48.2	S	123	W	2328	0.8
14	-7.2	-12.8	100	84	-10.56	79.5	W	127	W	0252	0.8
15	-0.6	-12.8	100	15	-19.44	23.5	W	61	NW	0030	0.0
16	6.1	-2.2	69	23	-8.89	32.1	W	58	SW	0600	0.0
17	6.7	2.8	100	39	3.33	43.9	SW	84	SW	1315	6.6
18	5.6	-12.2	100	100	-4.44	68.2	W	107	W	2030	15.2
19	0.0	-12.8	100	59	-10.56	61.8	W	102	W	0930	0.5
20	5.0	-1.7	87	53	-4.44	32.3	SW	64	SW	2335	0.0
21	2.2	-14.4	100	76	-3.33	58.4	W	106	W	2337	0.3
22	-11.7	-15.0	100	100	-13.33	51.5	W	99	W	0004	3.3
23	-2.8	-7.2	100	65	-9.44	53.0	W	93	W	2145	0.8
24	1.7	-5.6	100	81	-3.89	44.3	W	98	W	0220	2.5
25	7.8	0.0	83	45	-2.78	39.6	W	61	W	0932	0.0
26	6.1	1.7	100	49	-1.67	29.9	SW	70	S	2343	24.4
27	5.6	-2.2	100	100	3.33	22.7	W	62	S	0005	12.7
28	-1.7	-8.9	64	42	-12.78	34.0	N	68	N	2340	0.0
29	-3.3	-9.4	71	40	-12.78	46.7	NW	71	N	0335	0.0
30	0.6	-7.8	70	55	-10.00	56.1	NW	108	NW	1620	0.1
31			100	7	-10.9	52.6		162		1815	

Monthly

Ave = -7.4  
 Max = 7.8  
 Min = -27.2

Total  
 197.7

† - Conversion mph to m/s, mph x .447

Figure B1. Monthly wind roses for Loon Mountain, 1980-81.

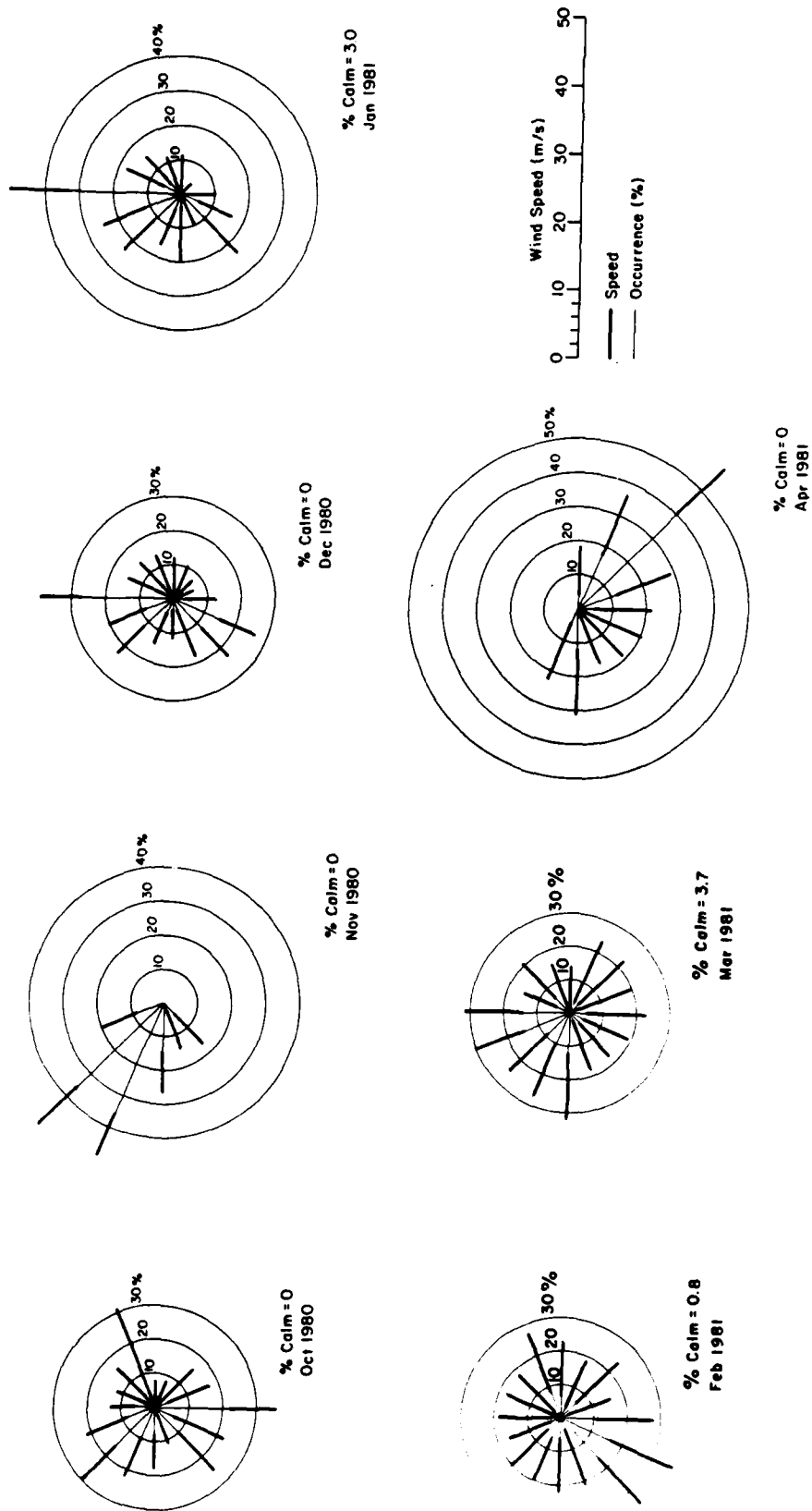


Figure B2. Monthly wind roses for Loon Mountain, 1981-82.

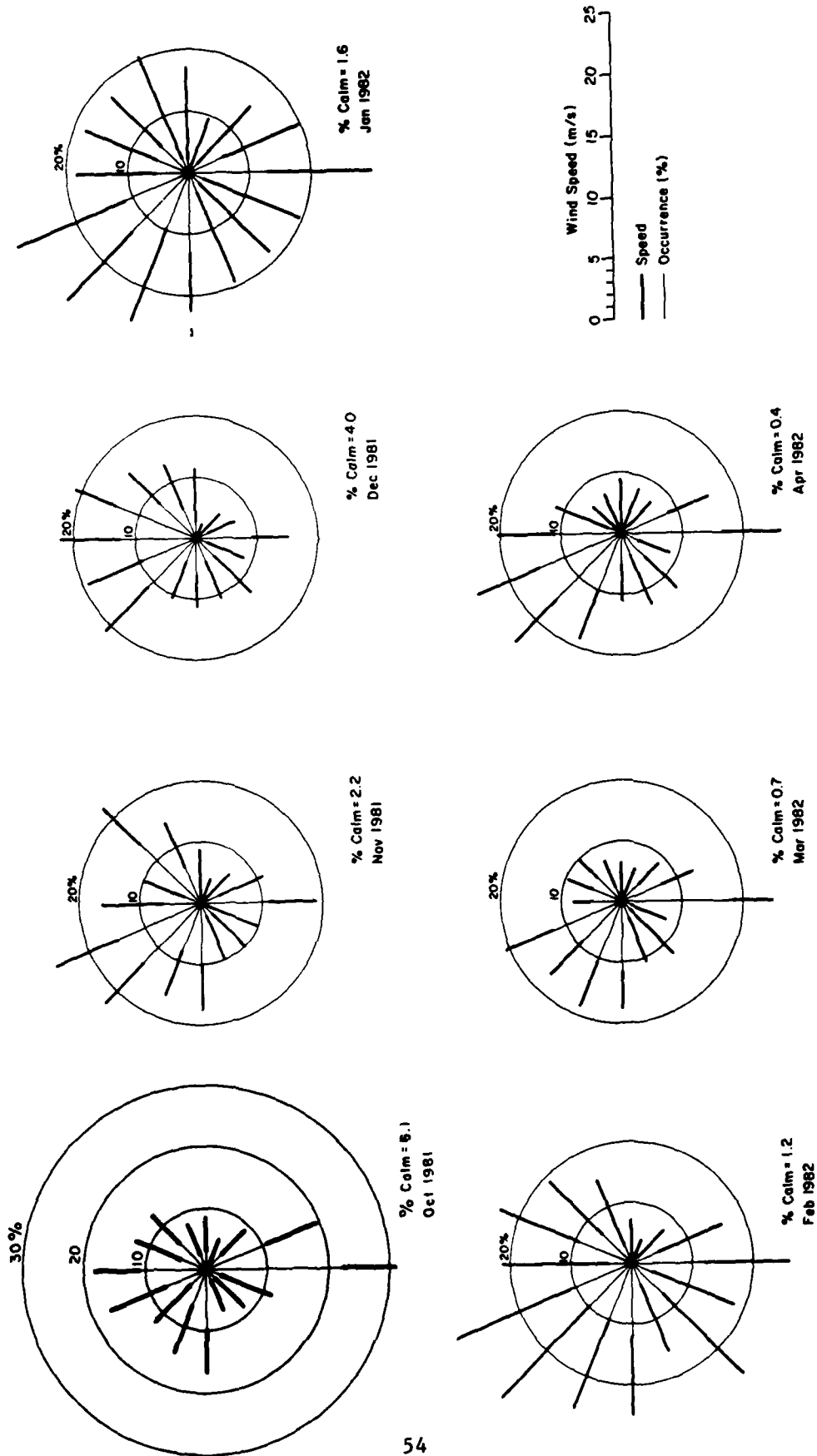


Figure B3. Monthly wind roses for CRREL, 1980-81.

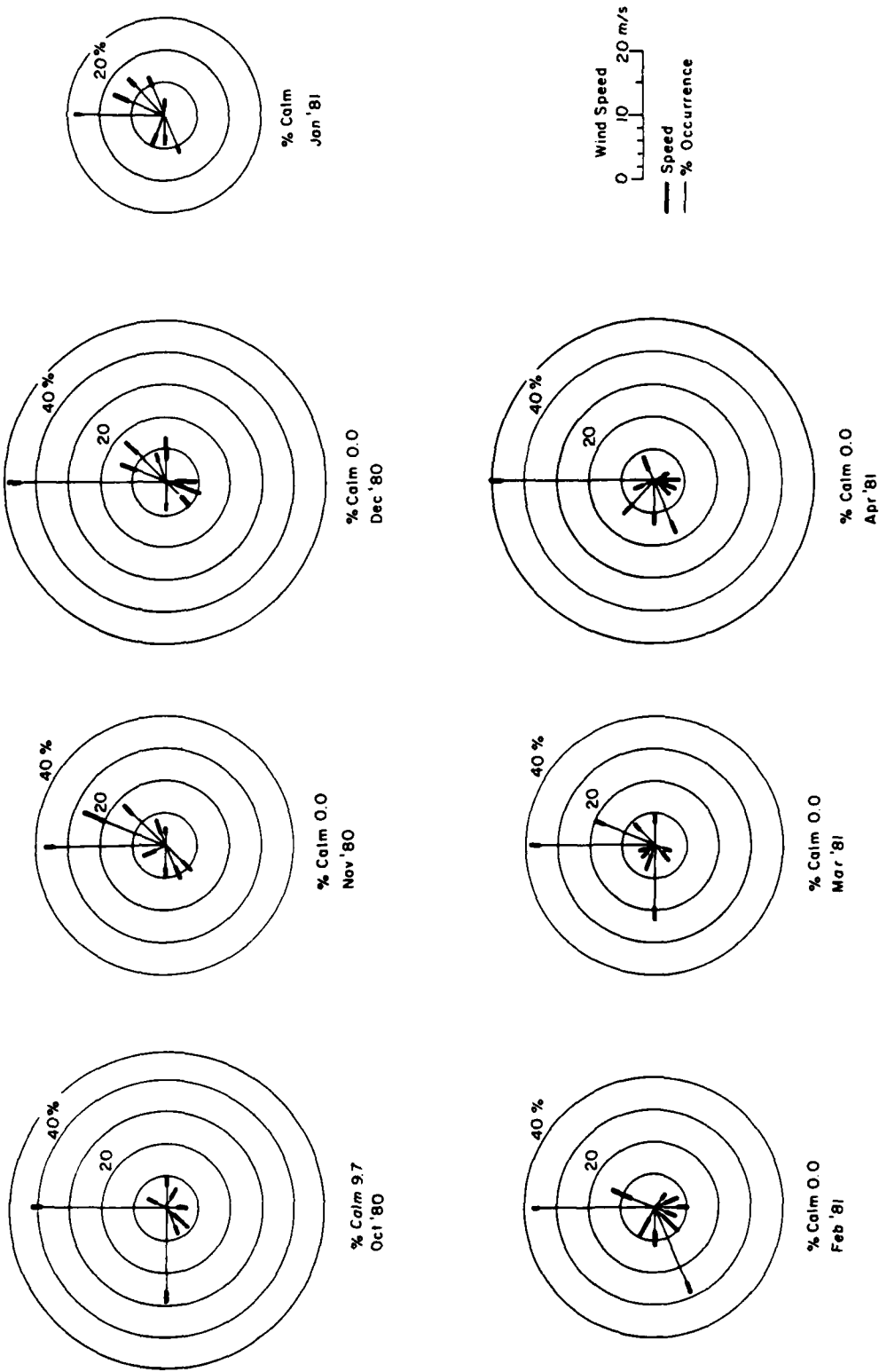
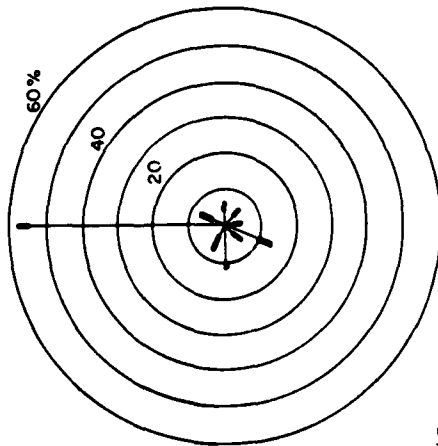
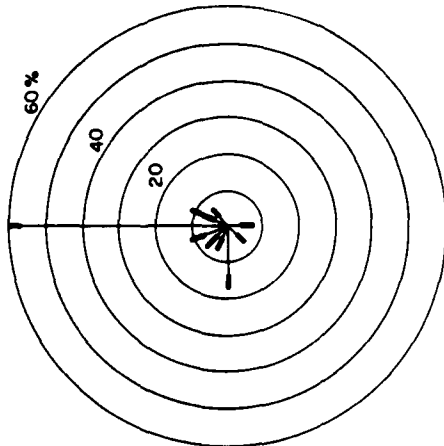


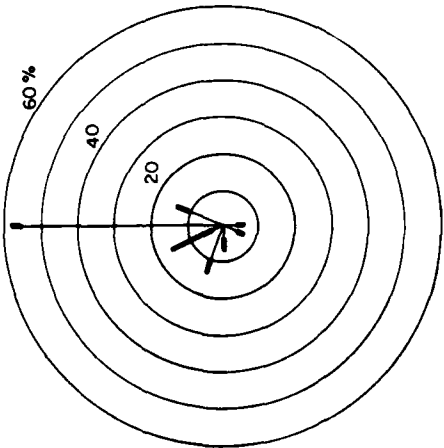
Figure B4. Monthly wind roses for CRREL, 1981-82.



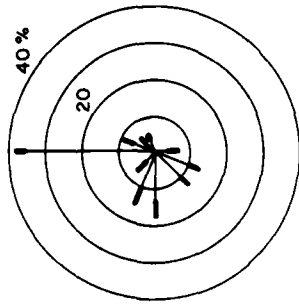
% Calm 6.5  
Oct '81



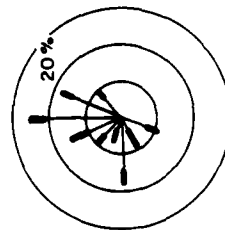
% Calm 3.3  
Nov '81



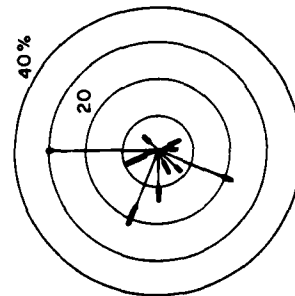
% Calm 10.3  
Dec '81



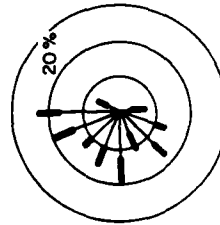
% Calm 3.2  
Jan '82



% Calm 10.7  
Feb '82



% Calm 3.2  
Mar '82



% Calm 0.0  
Apr '82

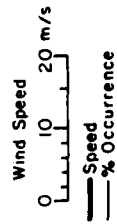


Figure B5. Monthly wind roses for Mount Washington, 1980-81.

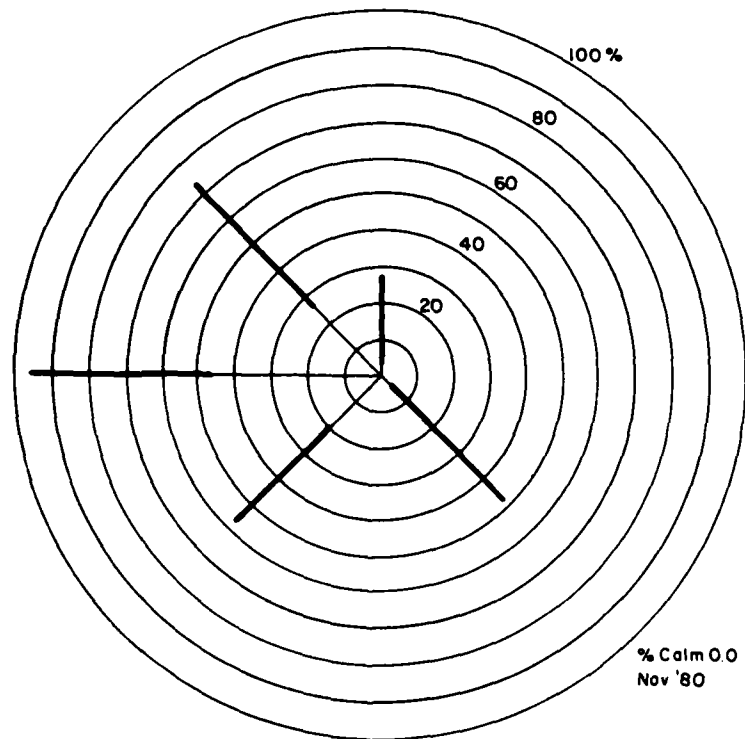
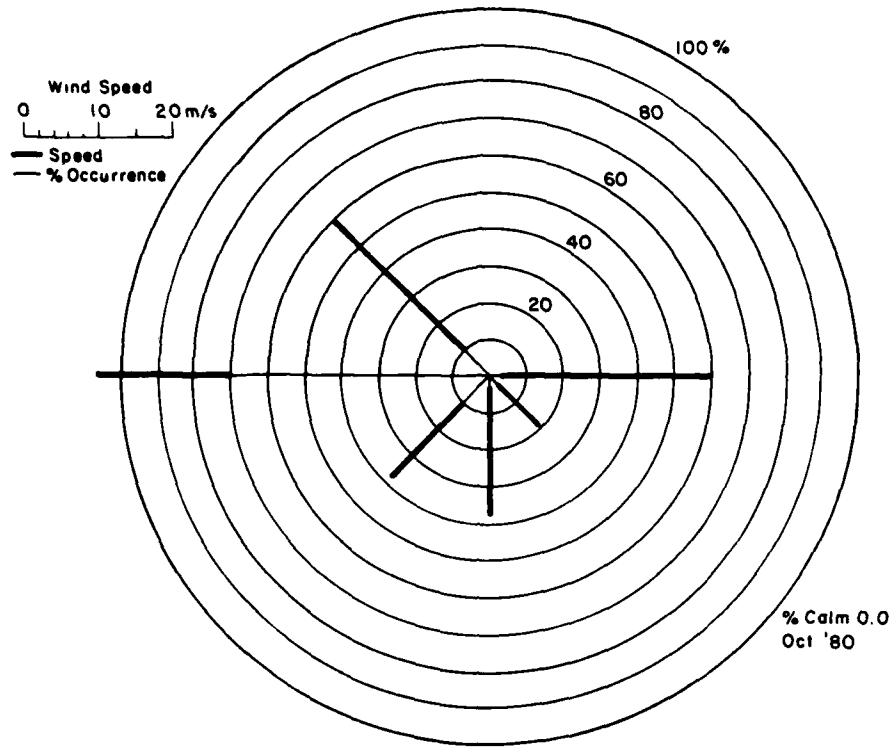


Figure B5 (cont'd).

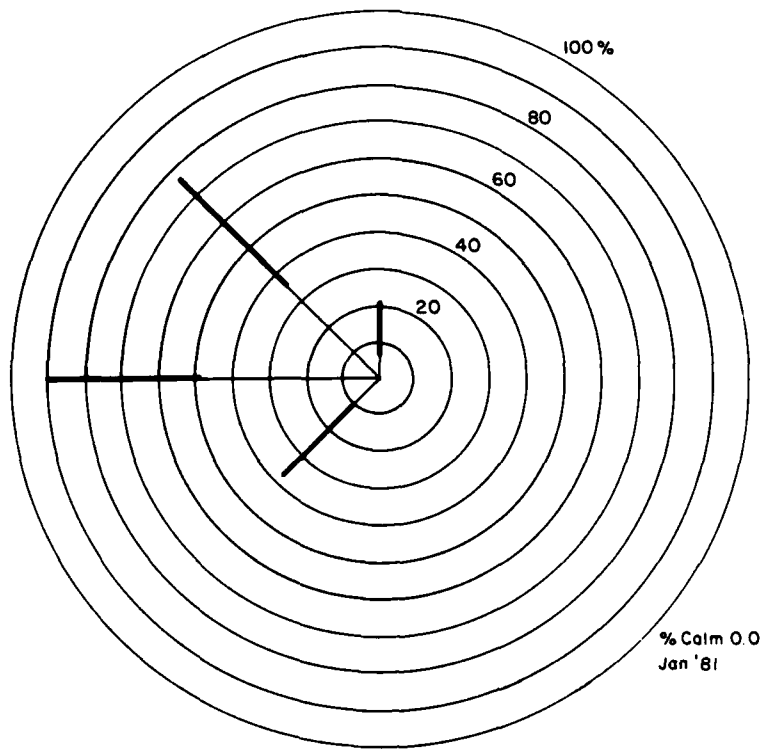
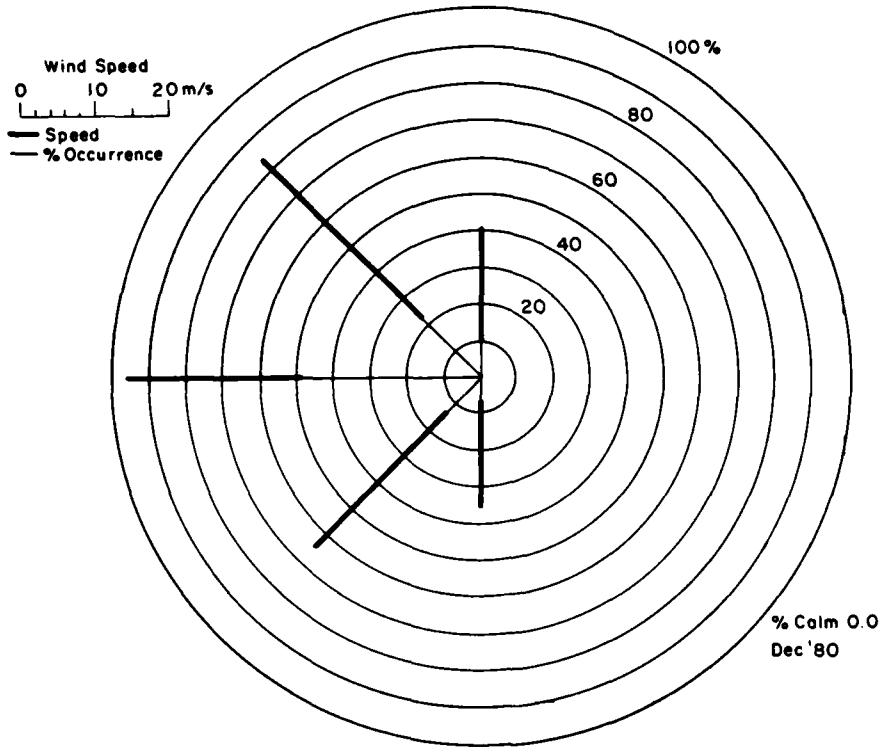


Figure B5 (cont'd).

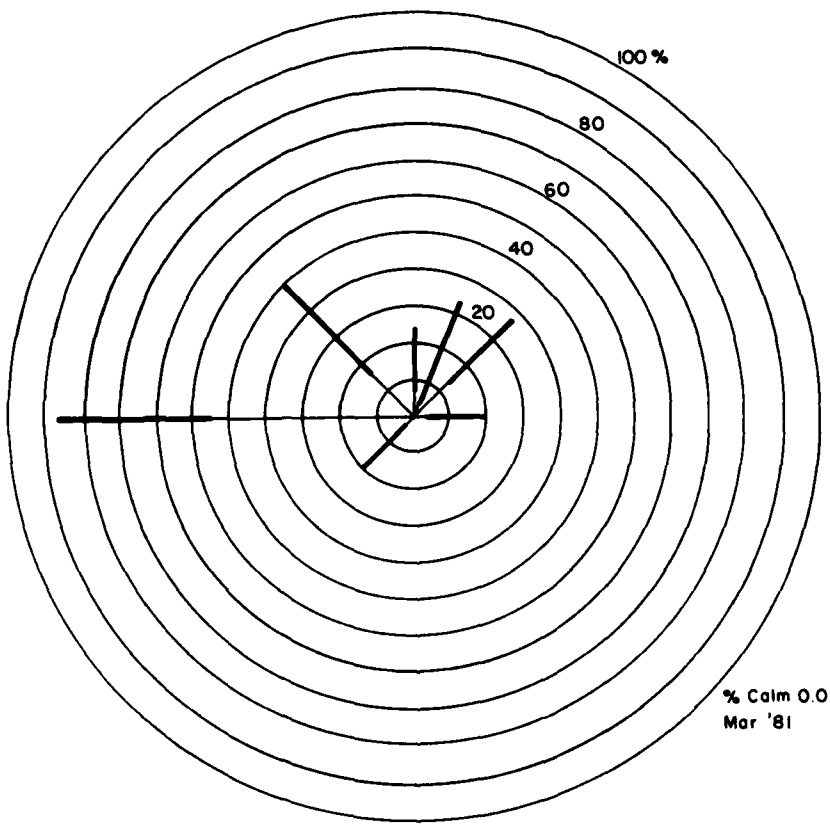
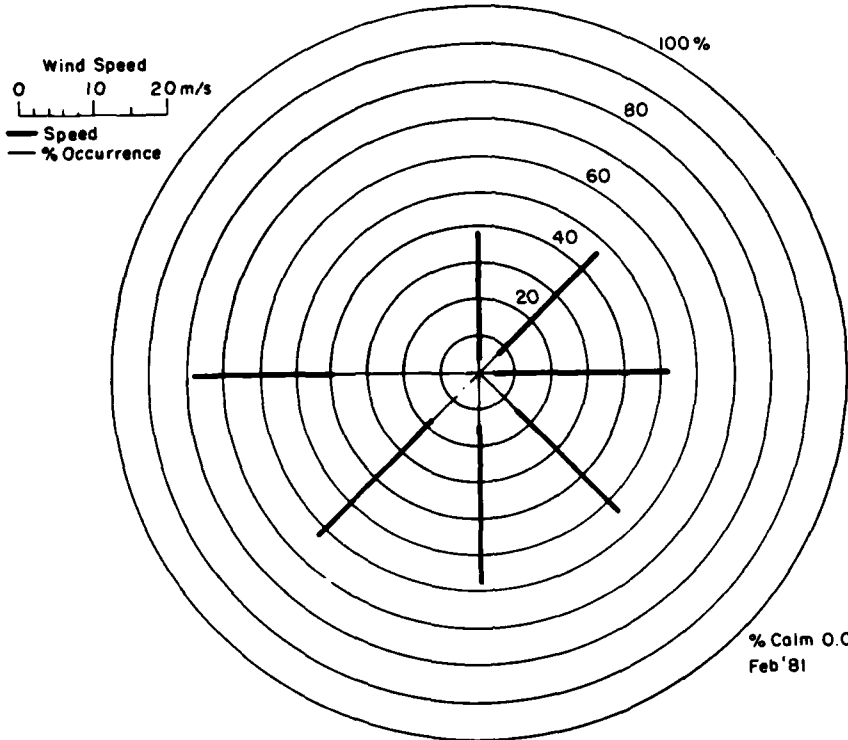




Figure B5 (cont'd).

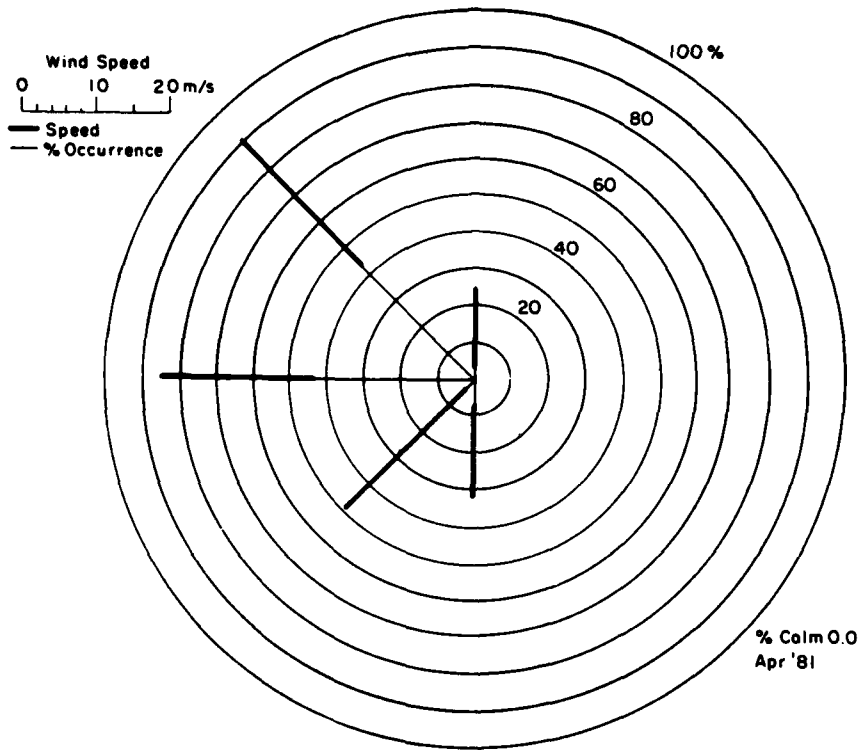


Figure B6. Monthly wind roses for Mount Washington, 1981-82.

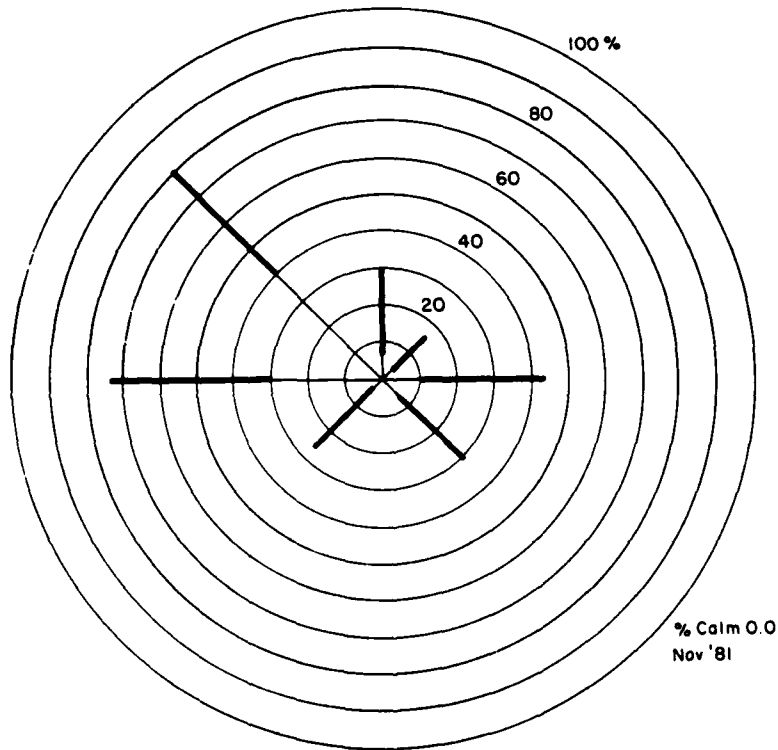
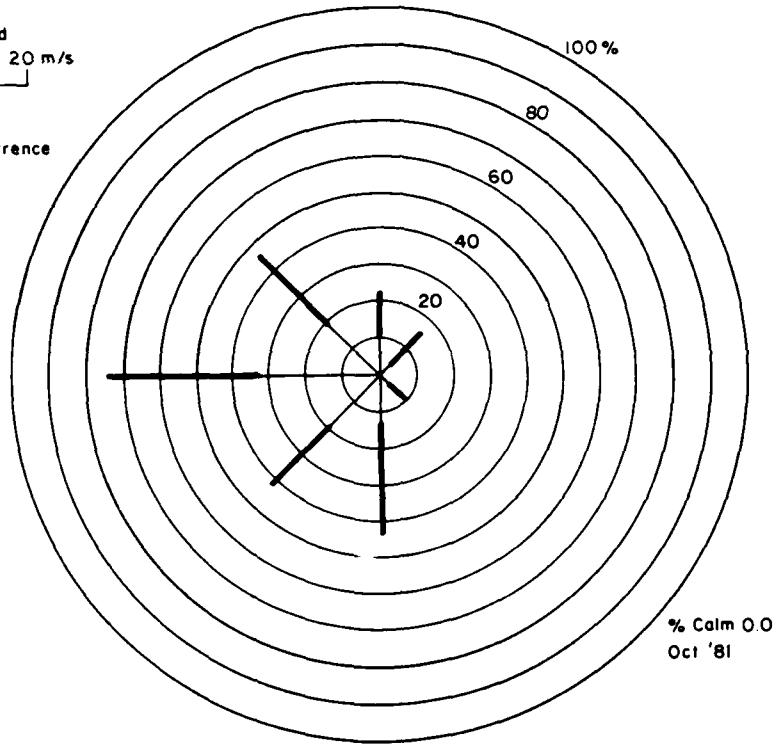
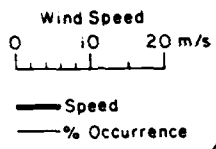




Figure B6 (cont'd).

Wind Speed  
0 10 20 m/s

— Speed  
— % Occurrence

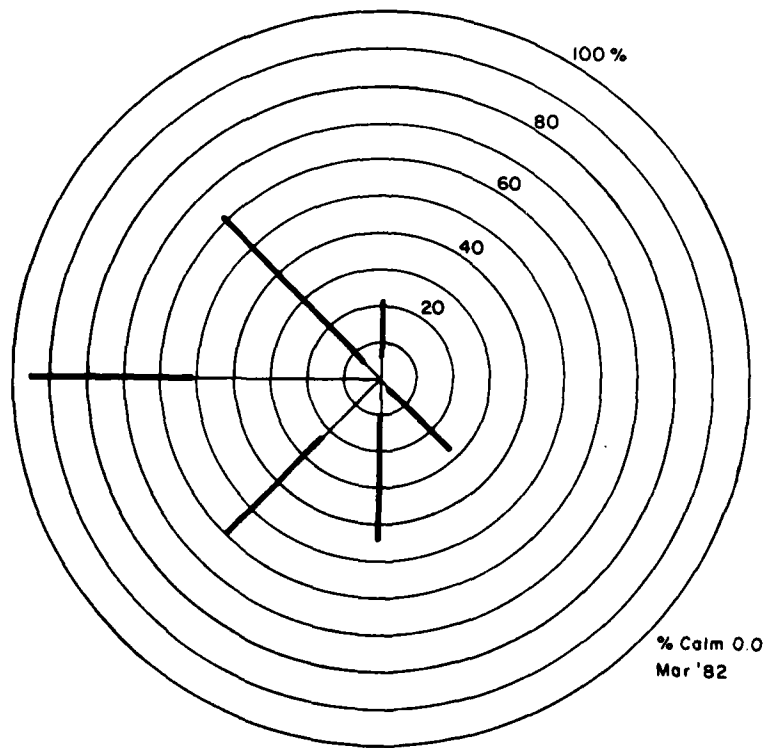
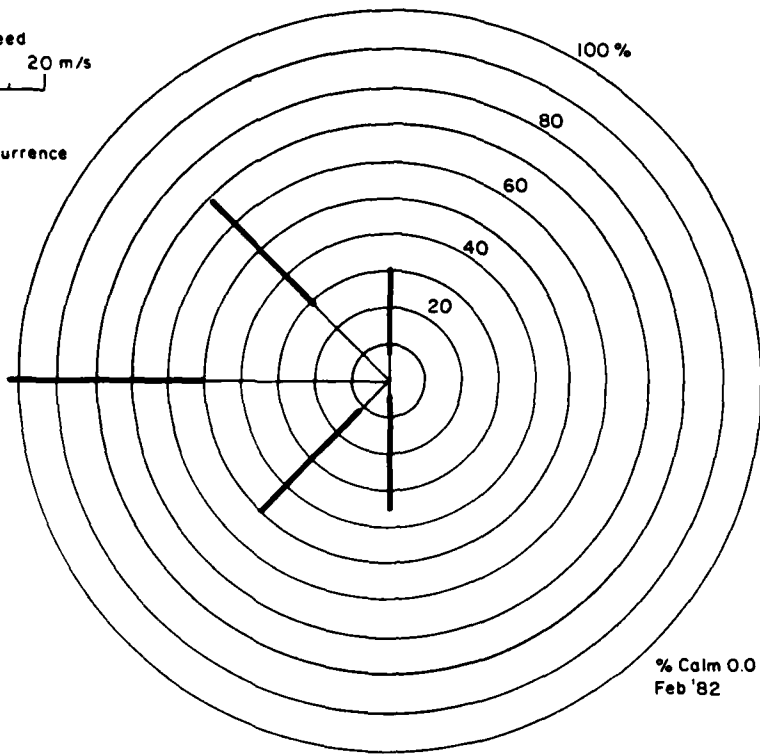
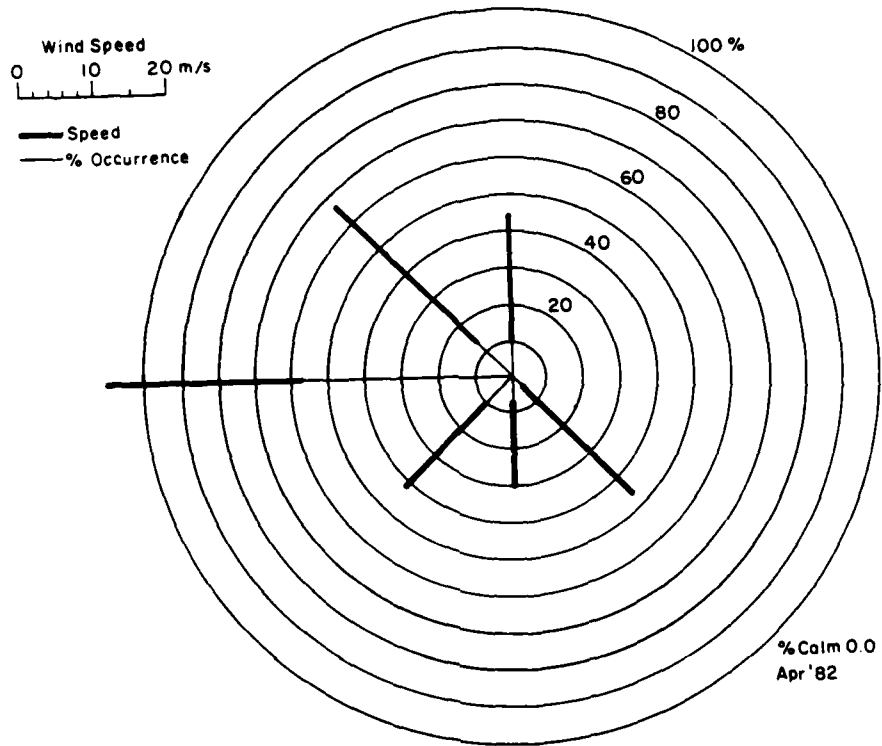
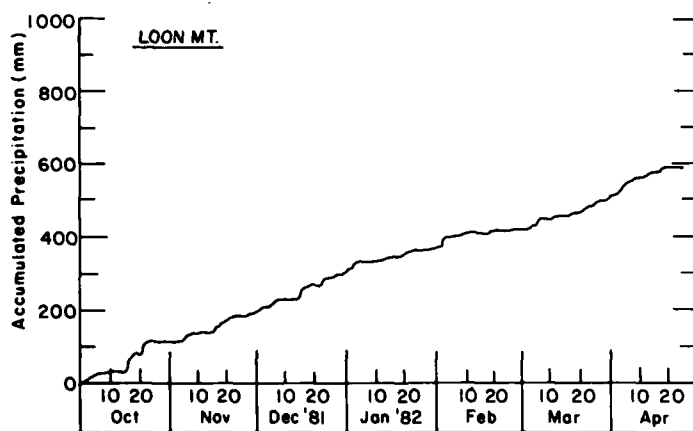
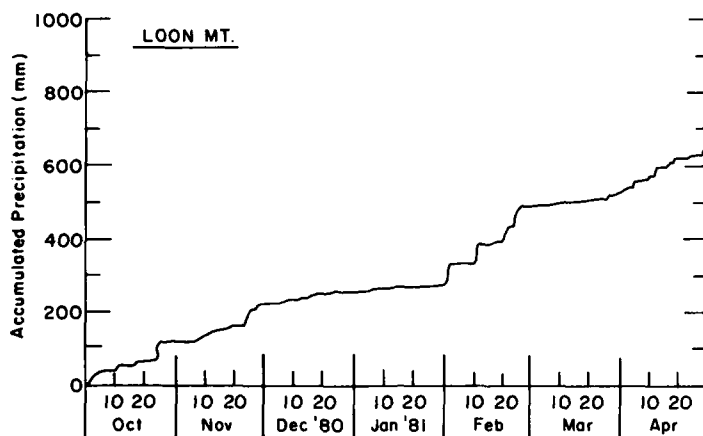
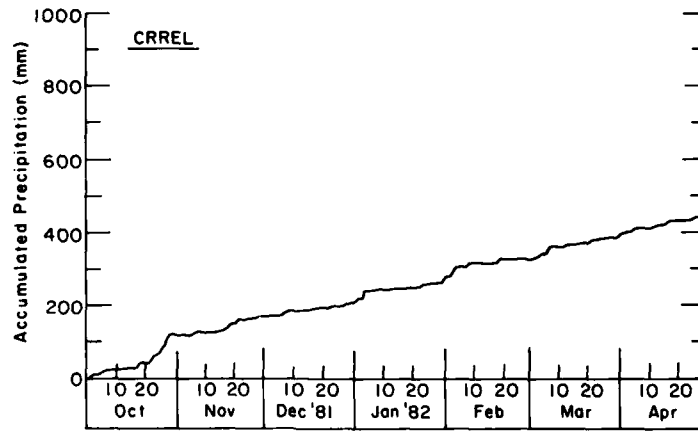
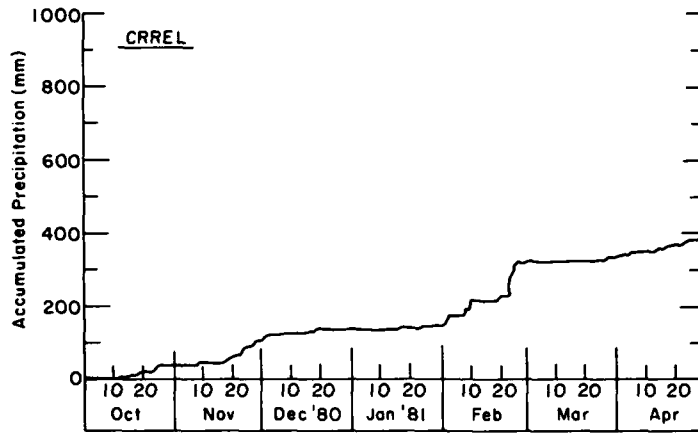


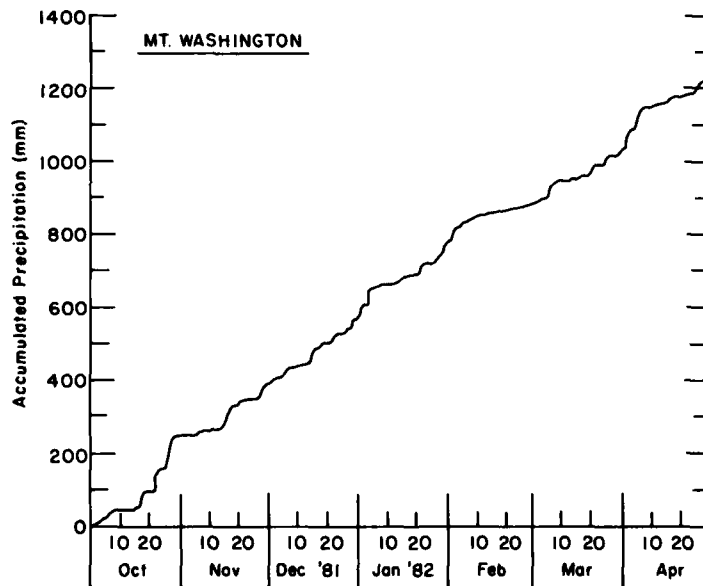
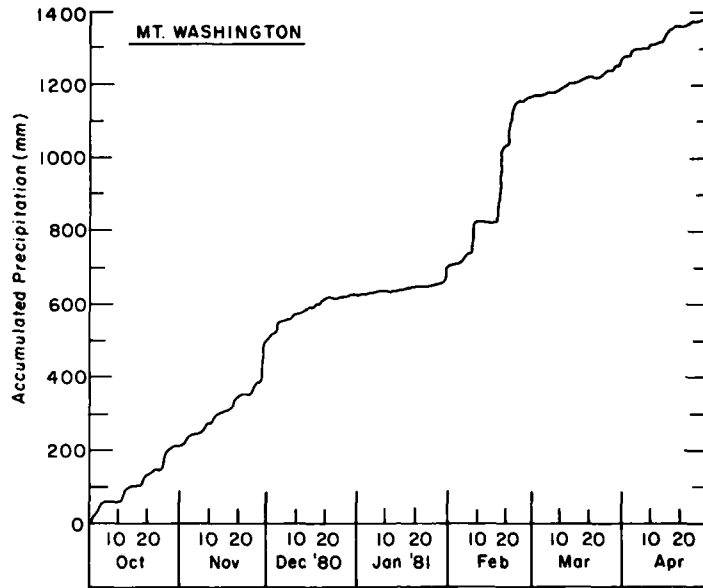
Figure B6 (cont'd).



APPENDIX C: ACCUMULATED PRECIPITATION AMOUNTS (WATER EQUIVALENT)

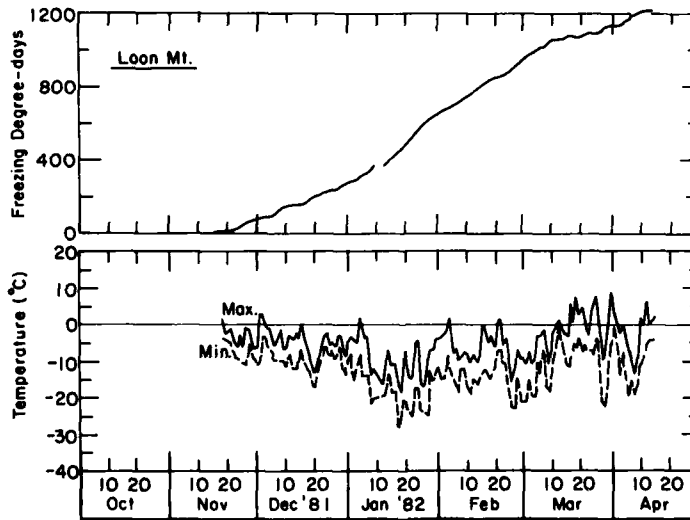
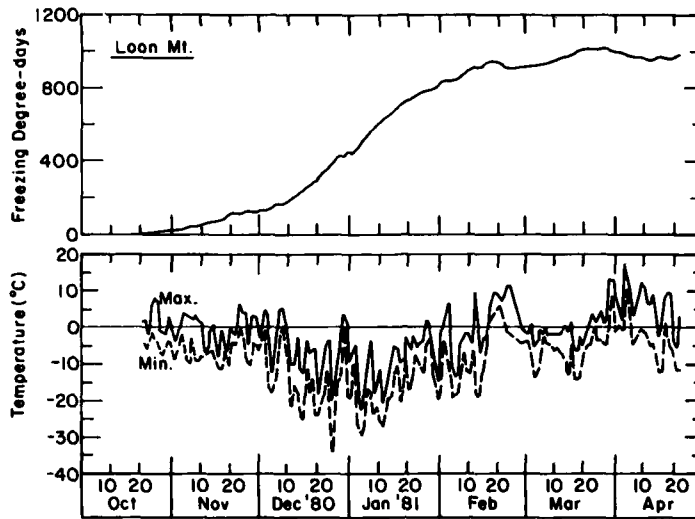


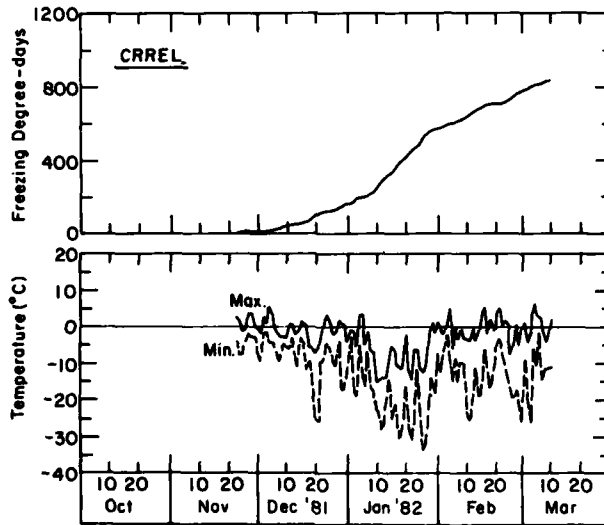
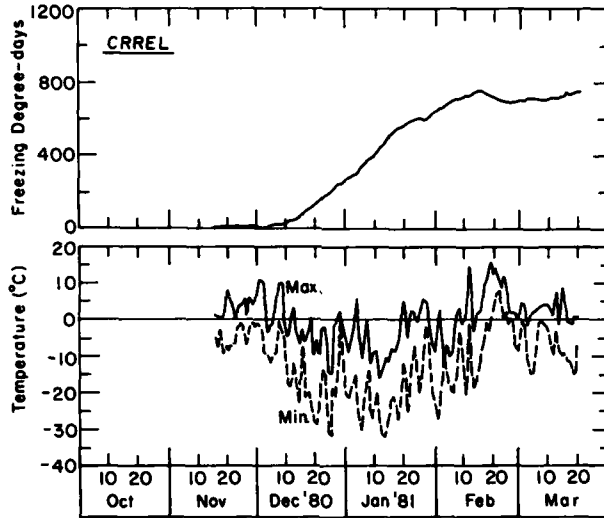


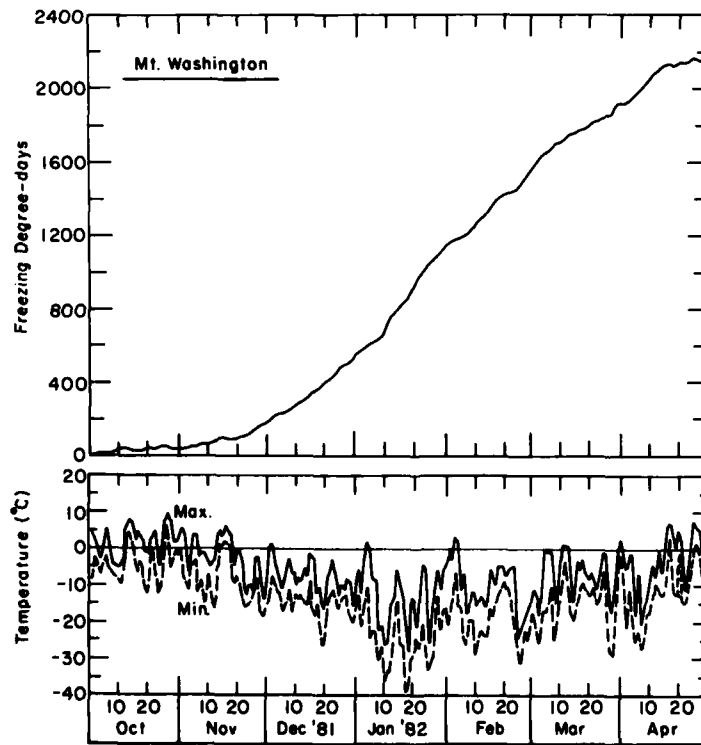
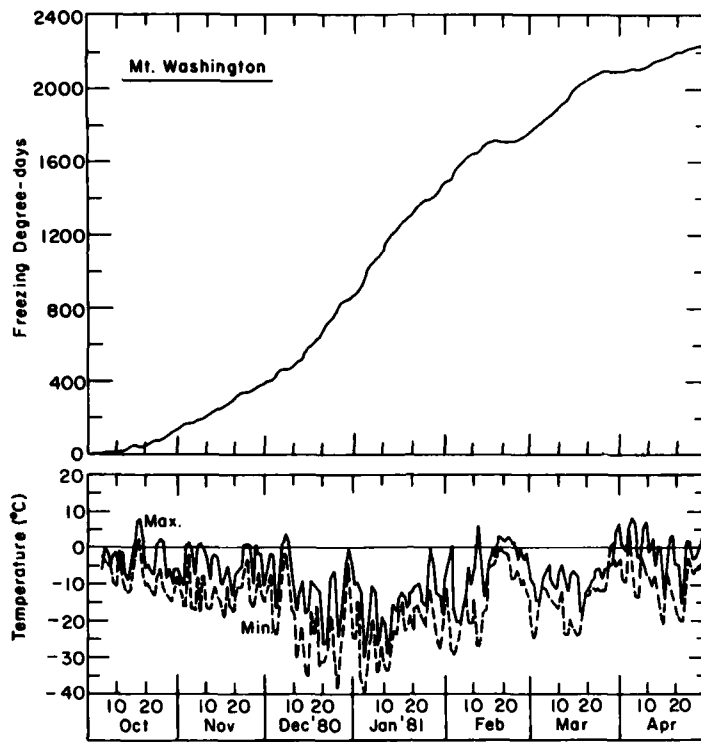




APPENDIX D: CUMULATIVE FREEZING-DEGREE-DAYS AND MAXIMUM  
AND MINIMUM AIR TEMPERATURES







APPENDIX E: MOUNT WASHINGTON ICING EVENTS

1980 Date	Time (Hrs)		Begin	End	1980 Date	Time (Hrs)		Begin	End
	Begin	End				Begin	End		
Oct 1					Nov 1				
Oct 2					Nov 2				
Oct 3					Nov 3				
Oct 4					Nov 4				
Oct 5	1820		0850	1950	Nov 5				
Oct 6	Cont				Nov 6				
Oct 7	1120		0520	Cont	Nov 7				
Oct 8	0210				Nov 8				
Oct 9	Cont				Nov 9				
Oct 10	0640				Nov 10				
Oct 11	Cont				Nov 11				
Oct 12	2100				Nov 12				
Oct 13	0230				Nov 13				
Oct 14	Cont				Nov 14				
Oct 15	Cont				Nov 15				
Oct 16	0515				Nov 16				
Oct 17	Cont		2015	Cont	Nov 17				
Oct 18					Nov 18				
Oct 19	0100				Nov 19				
Oct 20	Cont				Nov 20				
Oct 21	Cont				Nov 21				
Oct 22	Cont				Nov 22				
Oct 23	Cont				Nov 23				
Oct 24					Nov 24				
Oct 25	0855		2105	2140	Nov 25				
Oct 26	0130				Nov 26				
Oct 27	Cont				Nov 27				
Oct 28	Cont				Nov 28				
Oct 29	Cont				Nov 29				
Oct 30	Cont				Nov 30				
Oct 31	0450								

Cont - Continued

1980		Time (hrs)		1981		Time (hrs)		1981	
Date	Begin	End	Date	Begin	End	Date	Begin	End	Date
Dec 1	Cont	2250	Jan 1	2015	Cont	Jan 1	2015	Cont	Jan 1
2	0520	Cont	2	Cont	Cont	2	Cont	Cont	2
3	Cont	Cont	3	Cont	Cont	3	Cont	Cont	3
4	Cont	Cont	4	Cont	Cont	4	Cont	Cont	4
5	Cont	1155	5	Cont	1915	5	Cont	1915	5
6	0450	1430	6	0705	Cont	6	0705	Cont	6
7	2315	Cont	7	Cont	Cont	7	Cont	Cont	7
8	Cont	0730	8	Cont	Cont	8	Cont	Cont	8
9	Cont	1315	9	Cont	0130	9	Cont	0130	9
10	Cont	Cont	10	0205	0955	10	0205	0955	10
11	Cont	Cont	11	Cont	Cont	11	Cont	Cont	11
12	Cont	0845	12	Cont	0640	12	Cont	0640	12
13	Cont	Cont	13	Cont	Cont	13	Cont	Cont	13
14	Cont	2250	14	1910	Cont	14	1910	Cont	14
15	0545	Cont	15	Cont	0635	15	Cont	0635	15
16	Cont	Cont	16	1345	Cont	16	1345	Cont	16
17	Cont	1740	17	Cont	1530	17	Cont	1530	17
18	Cont	1230	18	0505	Cont	18	0505	Cont	18
19	0635	Cont	19	Cont	Cont	19	Cont	Cont	19
20	Cont	Cont	20	Cont	0705	20	Cont	0705	20
21	Cont	0045	21	Cont	Cont	21	Cont	Cont	21
22	Cont	Cont	22	0520	0940	22	0520	0940	22
23	Cont	0510	23	Cont	Cont	23	Cont	Cont	23
24	Cont	Cont	24	Cont	Cont	24	Cont	Cont	24
25	0210	Cont	25	Cont	0640	25	Cont	0640	25
26	Cont	2150	26	1405	Cont	26	1405	Cont	26
27	0215	Cont	27	Cont	Cont	27	Cont	Cont	27
28	Cont	0750	28	Cont	1345	28	Cont	1345	28
29	0820	Cont	29	Cont	0455	29	Cont	0455	29
30	Cont	0445	30	Cont	Cont	30	Cont	Cont	30
31	0910	1050	31	Cont	1230	31	Cont	1230	31

1981		Time (Hrs)		1981		Time (Hrs)		1981	
Date	End	Begin	End	Date	End	Begin	End	Date	End
Feb 1	Cont	1845	Cont	Mar 1	Cont	0005	Cont		
2	1415	Cont	1550	2	Cont	Cont	Cont		
3	Cont	Cont	Cont	3	Cont	Cont	Cont		
4	0430	Cont	1245	4	Cont	Cont	Cont		
5	1640	Cont	1905	5	Cont	Cont	Cont		
6	0150	Cont	1220	6	Cont	Cont	Cont		
7	1250	Cont	1750	7	Cont	Cont	Cont		
8	Cont	Cont	Cont	8	Cont	Cont	Cont		
9	Cont	Cont	Cont	9	Cont	Cont	Cont		
10	0655	Cont	1955	10	Cont	Cont	Cont		
11	1110	Cont	2350	11	Cont	Cont	Cont		
12	1850	Cont	Cont	12	Cont	Cont	Cont		
13	Cont	Cont	Cont	13	Cont	Cont	Cont		
14	0815	Cont	1230	14	Cont	Cont	Cont		
15	Cont	Cont	Cont	15	Cont	Cont	Cont		
16	Cont	Cont	Cont	16	Cont	Cont	Cont		
17	Cont	Cont	Cont	17	Cont	Cont	Cont		
18	1050	Cont	1710	18	Cont	Cont	Cont		
19	0330	Cont	1955	19	Cont	Cont	Cont		
20	Cont	Cont	Cont	20	Cont	Cont	Cont		
21	Cont	Cont	Cont	21	Cont	Cont	Cont		
22	1115	Cont	1230	22	Cont	Cont	Cont		
23	Cont	Cont	Cont	23	Cont	Cont	Cont		
24	Cont	Cont	Cont	24	Cont	Cont	Cont		
25	Cont	Cont	Cont	25	Cont	Cont	Cont		
26	Cont	Cont	Cont	26	Cont	Cont	Cont		
27	1235	Cont	Cont	27	Cont	Cont	Cont		
28	Cont	Cont	Cont	28	Cont	Cont	Cont		
		1250	Cont	29	Cont	Cont	Cont		
			Cont	30	Cont	Cont	Cont		
			Cont	31	Cont	Cont	Cont		

1981		Time (Hrs)		Time (Hrs)		1981		Time (Hrs)		1981	
Date	End	Begin	End	Begin	End	Date	End	Begin	End	Date	End
Apr 1	Cont	Cont	Cont	Cont	Cont	Oct 1	Cont	Cont	Cont	Oct 1	Cont
2	Cont	Cont	Cont	Cont	Cont	2	0400	0220	1430	2	0740
3	Cont	0410	Cont	Cont	Cont	3	Cont	Cont	1630	3	Cont
4	Cont	Cont	Cont	Cont	Cont	4	Cont	Cont	1935	4	Cont
5	2130	Cont	Cont	Cont	Cont	5	Cont	Cont	(1930)	5	Cont
6	Cont	Cont	Cont	Cont	Cont	6	Cont	Cont	Cont	6	Cont
7	Cont	1005	Cont	Cont	Cont	7	0030	Cont	Cont	7	Cont
8	Cont	Cont	Cont	Cont	Cont	8	Cont	Cont	Cont	8	Cont
9	1940	Cont	Cont	Cont	Cont	9	Cont	Cont	Cont	9	Cont
10	Cont	0855	Cont	Cont	Cont	10	Cont	Cont	Cont	10	Cont
11	Cont	0620	Cont	Cont	Cont	11	0615	Cont	Cont	11	Cont
12	Cont	0130	Cont	Cont	Cont	12	0945	Cont	Cont	12	Cont
13	Cont	Cont	Cont	Cont	Cont	13	Cont	Cont	Cont	13	Cont
14	0840	Cont	Cont	Cont	Cont	14	Cont	Cont	Cont	14	Cont
15	Cont	1315	Cont	1840	2240	15	1530	Cont	Cont	15	Cont
16	Cont	0220	1625	Cont	Cont	16	Cont	Cont	Cont	16	Cont
17	Cont	1250	1340	Cont	Cont	17	Cont	Cont	Cont	17	Cont
18	Cont	1530	Cont	Cont	Cont	18	1215	Cont	Cont	18	Cont
19	Cont	0430	Cont	Cont	Cont	19	Cont	Cont	Cont	19	Cont
20	Cont	0550	Cont	Cont	Cont	20	Cont	Cont	Cont	20	Cont
21	Cont	Cont	Cont	Cont	Cont	21	0515	Cont	Cont	21	Cont
22	Cont	0550	Cont	0650	0810	22	Cont	Cont	Cont	22	Cont
23	Cont	2350	Cont	Cont	Cont	23	2050	Cont	Cont	23	Cont
24	Cont	0155	Cont	0645	Cont	24	Cont	Cont	Cont	24	Cont
25	Cont	Cont	Cont	1715	Cont	25	0750	Cont	Cont	25	Cont
26	Cont	1430	Cont	Cont	Cont	26	Cont	Cont	Cont	26	Cont
27	Cont	1230	Cont	Cont	Cont	27	Cont	Cont	Cont	27	Cont
28	Cont	0230	0840	Cont	Cont	28	1420	Cont	Cont	28	Cont
29	Cont	0245	0540	Cont	Cont	29	Cont	Cont	Cont	29	Cont
30	Cont	1130	Cont	2145	Cont	30	Cont	Cont	Cont	30	Cont
						31				31	

1981		Time (Hrs)		1981		Time (Hrs)		1981	
Date	End	Begin	End	Date	Begin	End	Date	Begin	End
Nov 1	1450	1440	1530	Dec 1	1915	Cont	1981	1915	Cont
2	1440	Cont	1550	2	Cont	0810	2	Cont	0810
3	Cont	0830	Cont	3	0430	Cont	3	Cont	2150
4	0550	1245	Cont	4	Cont	1550	4	Cont	Cont
5	1655	Cont	Cont	5	0130	(0530)	5	0655	0945
6	Cont	Cont	Cont	6	Cont	Cont	6	Cont	Cont
7	Cont	0710	Cont	7	Cont	0240	7	1305	Cont
8	Cont	2030	Cont	8	Cont	Cont	8	Cont	Cont
9	1925	Cont	Cont	9	Cont	Cont	9	Cont	Cont
10	Cont	Cont	Cont	10	Cont	Cont	10	Cont	Cont
11	Cont	0815	Cont	11	Cont	Cont	11	Cont	Cont
12	Cont	Cont	Cont	12	Cont	1530	12	Cont	Cont
13	Cont	Cont	Cont	13	2315	Cont	13	Cont	Cont
14	Cont	Cont	Cont	14	Cont	1040	14	1605	1620
15	Cont	Cont	Cont	15	Cont	1020	15	2040	Cont
16	Cont	Cont	Cont	16	Cont	Cont	16	Cont	Cont
17	Cont	Cont	Cont	17	Cont	1710	17	Cont	Cont
18	0710	Cont	Cont	18	Cont	Cont	18	Cont	Cont
19	Cont	2320	Cont	19	0130	Cont	19	Cont	Cont
20	0440	Cont	Cont	20	Cont	Cont	20	Cont	Cont
21	Cont	Cont	Cont	21	Cont	1720	21	Cont	Cont
22	Cont	Cont	Cont	22	0410	1940	22	2145	Cont
23	Cont	2140	Cont	23	Cont	Cont	23	Cont	Cont
24	0130	Cont	Cont	24	Cont	Cont	24	Cont	Cont
25	0545	0635	Cont	25	Cont	1330	25	Cont	Cont
26	Cont	Cont	Cont	26	Cont	Cont	26	Cont	Cont
27	0040	Cont	Cont	27	0850	Cont	27	1550	Cont
28	Cont	Cont	Cont	28	Cont	1440	28	Cont	Cont
29	Cont	Cont	Cont	29	Cont	Cont	29	Cont	Cont
30	Cont	0750	Cont	30	Cont	1050	30	1230	Cont
				31	Cont	0530	31	Cont	Cont



1982		Time (Hrs)		1982		Time (Hrs)	
Date	End	Begin	End	Date	Begin	End	End
Jan 1	Cont			Feb 1	Cont	2010	
Jan 2	0450	Cont		Feb 2	0110	1315	
Jan 3	Cont	1130	Cont	Feb 3	0340	1615	
Jan 4	Cont	1735	Cont	Feb 4	1310	Cont	
Jan 5	Cont	Cont		Feb 5	Cont	Cont	
Jan 6	Cont	0430	Cont	Feb 6	Cont	0730	1745
Jan 7	Cont	Cont		Feb 7	Cont	Cont	1820
Jan 8	Cont	Cont		Feb 8	Cont	Cont	Cont
Jan 9	Cont	1140	Cont	Feb 9	Cont	0415	0640
Jan 10	Cont	2145	Cont	Feb 10	Cont	Cont	Cont
Jan 11	Cont	0950	Cont	Feb 11	Cont	0755	1930
Jan 12	Cont	1050	Cont	Feb 12	Cont	1330	Cont
Jan 13	Cont	1350	Cont	Feb 13	Cont	Cont	Cont
Jan 14	Cont	Cont		Feb 14	Cont	0620	Cont
Jan 15	Cont	2230	Cont	Feb 15	Cont	1945	Cont
Jan 16	Cont	Cont		Feb 16	Cont	0540	1720
Jan 17	Cont	1120	Cont	Feb 17	Cont	1010	Cont
Jan 18	Cont	Cont		Feb 18	Cont	1320	
Jan 19	Cont	Cont		Feb 19	0730	Cont	
Jan 20	Cont	0530		Feb 20	Cont	1720	
Jan 21	0110	2215		Feb 21	Cont	Cont	
Jan 22				Feb 22	1310	Cont	
Jan 23	0805	Cont		Feb 23	Cont	2230	
Jan 24	Cont	Cont		Feb 24	1310	Cont	
Jan 25	Cont	Cont		Feb 25	Cont	0420	
Jan 26	Cont	Cont		Feb 26	Cont	Cont	
Jan 27	Cont	0340		Feb 27	0110	1305	1635
Jan 28	Cont	Cont		Feb 28	Cont	0955	1645
Jan 29	Cont	1320		Feb 29	Cont	Cont	1650
Jan 30	Cont	2040		Feb 30	Cont	1415	0755
Jan 31	Cont	0650	1020	Feb 31	Cont	0635	Cont
		Cont	Cont				

1982		Time (Hrs)		1982		Time (Hrs)	
Date	End	Begin	End	Date	Begin	End	Date
Mar 1	Cont	1610	Cont	Apr 1	Cont	0950	
2	Cont	1655	Cont	2	Cont	1250	
3	Cont	1610	Cont	3	Cont	0040	
4	Cont	0120	Cont	4	Cont	0810	1050
5	Cont	2210	Cont	5	Cont	1740	Cont
6	Cont	1040	Cont	6	Cont	1750	Cont
7	Cont	(0120)	Cont	7	Cont	0720	Cont
8	Cont	1735	Cont	8	Cont	2250	Cont
9	Cont	0525	Cont	9	Cont	0110	
10	Cont	1120	Cont	10	Cont	0420	
11	Cont	0240	Cont	11	Cont	0720	
12	Cont	0045	Cont	12	Cont	0050	
13	Cont	1320	Cont	13	Cont	0145	
14	Cont	2215	Cont	14	Cont	1425	
15	Cont	1815	Cont	15	Cont	0110	
16	Cont	2000	Cont	16	Cont	0640	1330
17	Cont	1215	Cont	17	Cont	0935	1305
18	Cont	0930	Cont	18	Cont	1715	Cont
19	Cont	0705	Cont	19	Cont	1530	Cont
20	Cont	1440	Cont	20	Cont	2030	
21	Cont	1610	Cont	21	Cont	0240	
22	Cont	0620	Cont	22	Cont	1610	
23	Cont	0120	Cont	23	Cont	2215	
24	Cont	Cont	Cont	24	Cont		
25	Cont	1130	Cont	25	Cont		
26	Cont	0420	Cont	26	Cont		
27	Cont	0040	Cont	27	Cont		
28	Cont	(0445)	Cont	28	Cont		
29	Cont	1240	Cont	29	Cont		
30	Cont		Cont	30	Cont		
31	Cont		Cont	31	Cont		

END

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