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**UNITED STATES ARMY  
ELECTRONICS COMMAND  
METEOROLOGICAL TEAM DATA**

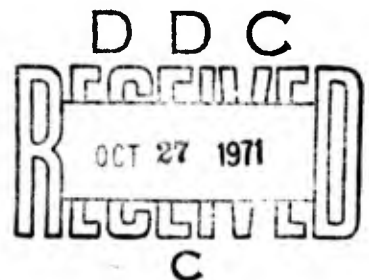
**F O R T W A I N W R I G H T , A L A S K A**

**A L A S K A F I E L D S T A T I O N**

**P O X L O W E R**

**A R C T I C M E D I C A L R E S E A R C H L A B O R A T O R Y**

**M A R C H 1 9 7 1**



**METEOROLOGICAL SERVICES TECHNICAL AREA**

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**ATMOSPHERIC SCIENCES LABORATORY  
WHITE SANDS MISSILE RANGE, NEW MEXICO**

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**METEOROLOGICAL DATA REPORT**  
**Atmospheric Sciences Laboratory Meteorological Team**  
**F O R T W A I N W R I G H T, A L A S K A**

**ALASKA FIELD STATION**

**FOX LOWER**

**ARCTIC MEDICAL RESEARCH LABORATORY**

**MARCH 1971**

**Meteorological Data  
furnished by:**

**U.S. Army Electronics Command  
Atmospheric Sciences Laboratory  
Meteorological Services Technical Area  
White Sands Missile Range, N.M. 88002**

**INTRODUCTION**

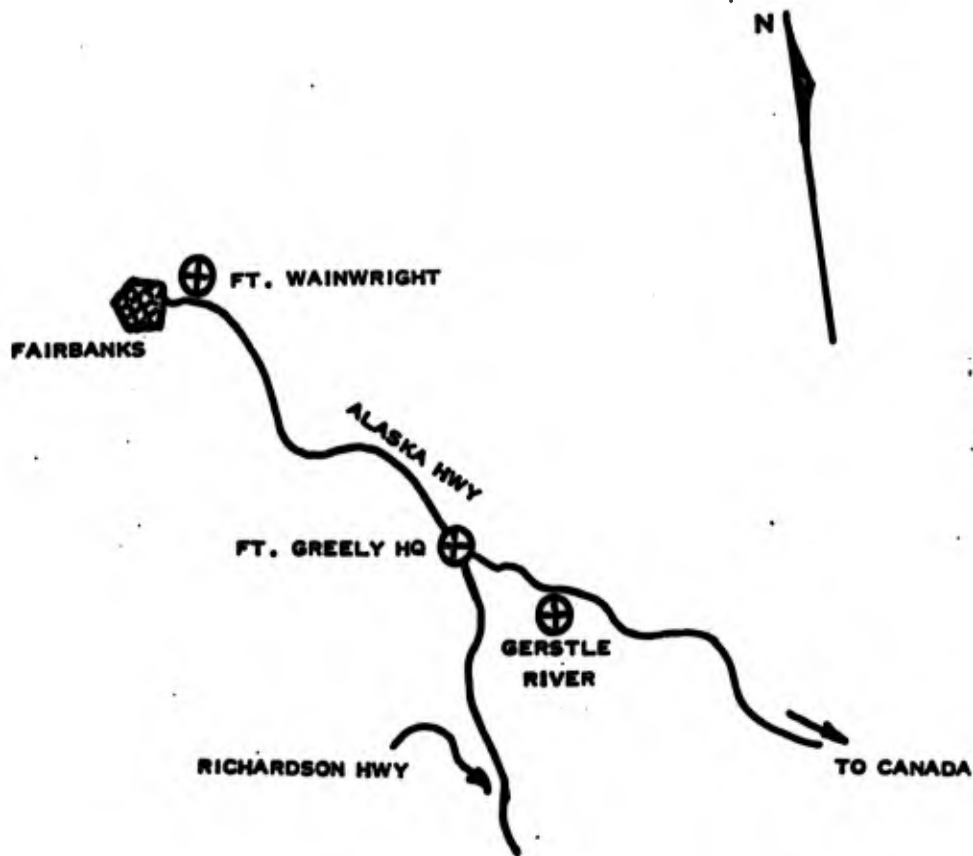
**This report presents meteorological data as obtained from the processing  
of information recorded by the U. S. Army Meteorological Teams:**

**Any correspondence pertaining to processing and/or distribution of the  
inclosed data should be directed to:**

**Commanding Officer and Director  
Atmospheric Sciences Laboratory  
U.S. Army Electronics Command  
ATTN: ANSEL-BL-N  
White Sands Missile Range, N.M. 88002**

**GEOGRAPHICAL DATA:**

	<u>Elevation</u>	<u>Latitude</u>	<u>Longitude</u>
Alaska Field Station	475 ft MSL	64° 52'N	147° 40'W
Fox Lower	700 ft MSL	64° 57'N	147° 37'W
Arctic Med Rsch Lab	440 ft MSL	64° 50'N	147° 40'W



FT. GREELY TO FT. WAINWRIGHT 107 MI  
FT. GREELY TO GERSTLE RIVER 38 MI

DATA COLLECTION SENSORS

<u>DATA</u>	<u>SENSORS</u>
Precipitation	Weighing-type recording 8" raingage
Temperature	Hygrothermograph or thermograph
Relative Humidity	Hygrothermograph
Wind Direction & Speed	WS-101 Beckman & Whitley Wind Measuring System
Wind Chill	Derived from temperature and wind speed values.

NATURE OF SURFACE MATERIAL AROUND SENSORS

Alaska Field Station - Gravel

Fox Lower - Gravel and Dirt

Arctic Medical Resch Lab - Open terrain, generally flat, snow-covered

## UNITS OF DATA MEASUREMENT

Units of measurement for data collected by US Army Meteorological Teams that are tabulated for distribution by the Meteorological Support Activity:

<u>Meteorological Element</u>	<u>Unit of Measurement</u>
Precipitation - - - - -	Inches
Pressure- - - - -	Millibars
Temperature - - - - -	Degrees Fahrenheit
Relative Humidity - - - - -	Percent
Wind Direction- - - - -	Sixteen Points of the Compass with reference to true north
Wind Speed- - - - -	Miles per hour
Wind Chill- - - - -	Kilogram calories/M <sup>2</sup> /Hour
Radiation - - - - -	Langleys
Ozone - - - - -	Parts per hundred million
Visibility- - - - -	Horizontal visibility in Statute miles
Sky Cover - - - - -	Tenths of Opaque Overcast
Snow Depth- - - - -	Inches
General Weather - - - - -	Predominant condition

All meteorological elements, except radiation, are tabulated on the 24-hour clock, local standard time. Radiation is tabulated on the 24-hour clock, true solar time.

ALASKA FIELD STATION MARCH 1971

1

2

3

HOUR	- WIND WIND-		- WIND WIND-		- WIND WIND-		
	PRECIP	TEMP/DIRECT SPEED	PRECIP	TEMP/DIRECT SPEED	PRECIP	TEMP/DIRECT SPEED	
1	.01	1. NE	.01	-13. W	0.	-38. NE	1.
2	.01	1. NE	.01	-14. NNW	0.	-40. NNE	1.
3	.01	1. NE	.01	-14. W	0.	-40. NNE	C
4	.02	1. NE	T	-15. NNW	0.	-35. NNE	1.
5	.03	1. NNE	.01	-15. NW	0.	-30. C	C
6	.01	1. NNE	.01	-15. W	0.	-25. C	C
7	.01	1. C	0.	-15. NNW	0.	-24. ESE	1.
8	.02	0. C	0.	-14. NW	0.	-23. E	1.
9	.04	0. C	0.	-14. W	0.	-22. SE	2.
10	.01	1. C	0.	-14. NNW	0.	-20. S	1.
11	T	1. SSE	0.	-13. NNW	0.	-18. SE	1.
12	T	2. W	0.	-13. NW	0.	-14. ESE	1.
13	T	0. SW	0.	-13. NNW	0.	-13. W	1.
14	T	-1. SW	0.	-13. NW	0.	-13. W	1.
15	T	-3. W	0.	-12. NNW	0.	-14. WNW	1.
16	T	-4. WSW	0.	-13. W	0.	-17. C	C
17	T	-5. NE	0.	-13. NNW	0.	-21. C	C
18	.02	-7. NNE	0.	-14. WNW	0.	-25. C	C
19	T	-8. N	0.	-14. W	0.	-27. NNW	1.
20	.01	-9. NNE	0.	-17. NNW	0.	-30. NNE	1.
21	.01	-10. N	0.	-18. C	0.	-29. C	C
22	.01	-10. NE	0.	-20. C	0.	-30. C	C
23	.01	-11. NE	0.	-23. C	0.	-30. C	C
24	.01	-11. W	0.	-33. C	0.	-29. C	C
TOT	.24	31.	.05	28.	.00	15.	
AVE		NE		NNW		NNE	
MAX	-3.	1.	-15.	1.	-25.	1.	
MIN	-11.	3.	-12.	3.	-13.	2.	
		0.	-33.	0.	-40.	0.	

ALASKA FIELD STATION MARCH 1971

4

5

6

HOUR	- WIND WIND-		- WIND WIND-		- WIND WIND-	
	PRECIP	TEMPDIRECT SPEED	PRECIP	TEMPDIRECT SPEED	PRECIP	TEMPDIRECT SPEED
1	0.	-29.	0.	NE 1.	0.	-41.
2	0.	-29.	0.	NE 1.	0.	-39.
3	0.	-28.	0.	C	0.	-39.
4	0.	-28.	0.	C	0.	-39.
5	0.	-31.	0.	C	0.	-39.
6	0.	-34.	0.	C	0.	-36.
7	0.	-39.	0.	C	0.	-36.
8	0.	-34.	0.	C	0.	-37.
9	0.	-27.	0.	C	0.	-33.
10	0.	-21.	0.	WSW 1.	0.	-30.
11	0.	-19.	0.	WSW 1.	0.	-27.
12	0.	-17.	0.	WSW 1.	0.	-26.
13	0.	-15.	0.	W 2.	0.	-24.
14	0.	-16.	0.	W 1.	0.	-23.
15	0.	-17.	0.	W 1.	0.	-23.
16	0.	-23.	0.	C	0.	-24.
17	0.	-28.	0.	C	0.	-23.
18	0.	-33.	0.	C	0.	-23.
19	0.	-31.	0.	L 1.	0.	-24.
20	0.	-23.	0.	NE 1.	T	-25.
21	0.	-31.	0.	NNE 1.	T	-25.
22	0.	-33.	0.	C	T	-24.
23	0.	-35.	0.	C	T	-24.
24	0.	-34.	0.	C	.01	-24.
TOT	.00		.00	12.	.01	6.
AVE		-28.		WSW 1.		-29.
HAX		-15.		2.		-23.
MIN		-39.		0.		-41.



ALASKA FIELD STATION MARCH 1971

7

8

9

HOJR	PRECIP	TEMP	DIRECT	SPEED	WIND	PRECIP	TEMP	DIRECT	SPEED	WIND	PRECIP	TEMP	DIRECT	SPEED	WIND
1	.01	-24.			C	.01	-36.			NNE	0.	-42.			C
2	.01	-24.			C	T	-39.			NNE	0.	-43.			1.
3	T	-23.			C	.01	-38.			NNE	0.	-44.			C
4	.01	-23.			C	T	-33.				0.	-44.			C
5	.01	-24.			C	T	-37.				0.	-38.			C
6	0.	-24.			C	.01	-35.				0.	-34.			C
7	0.	-24.			C	0.	-32.				0.	-33.			C
8	0.	-24.			C	0.	-32.				0.	-28.			C
9	0.	-23.			C	0.	-30.			SW	0.	-26.			C
10	0.	-17.			C	0.	-25.			WSW	0.	-22.			C
11	0.	-14.			1.	0.	-24.			W	0.	-22.			2.
12	0.	-13.			1.	0.	-21.			WSW	0.	-15.			1.
13	0.	-10.			1.	0.	-20.			WSW	0.	-12.			1.
14	0.	-9.			1.	0.	-20.			W	0.	-15.			2.
15	0.	-8.			1.	0.	-19.			SW	0.	-14.			1.
16	0.	-8.			1.	0.	-17.			WSW	0.	-13.			1.
17	0.	-11.			1.	0.	-16.			WSW	0.	-17.			1.
18	0.	-14.			C	0.	-23.				0.	-28.			C
19	0.	-26.			1.	0.	-32.				0.	-33.			C
20	0.	-33.			C	0.	-36.				0.	-35.			C
21	0.	-36.			C	0.	-38.				0.	-37.			C
22	T	-38.			C	0.	-37.				0.	-37.			C
23	T	-38.			C	0.	-36.				0.	-38.			1.
24	T	-37.			C	0.	-39.				0.	-39.			C
TOT	.04				8.	.03				WSW	.00				10.
AVE		-22.			0.		-30.			WSW		-30.			0.
MAX		-8.			1.		-16.					-12.			2.
MIN		-38.			0.		-39.					-44.			0.

ALASKA FIELD STATION MARCH 1971

10

11

12

HOUR	10		11		12	
	PRECIP	WIND	PRECIP	WIND	PRECIP	WIND
1	0.	NNE 1.	0.	C	0.	C
2	0.	N 1.	0.	C	0.	C
3	0.	C	0.	C	0.	C
4	0.	C	0.	C	0.	C
5	0.	NE 1.	0.	C	0.	C
6	0.	C	0.	C	0.	C
7	0.	C	0.	C	0.	C
8	0.	C	0.	C	0.	C
9	0.	C	0.	C	0.	C
10	0.	C	0.	C	0.	C
11	0.	C	0.	C	0.	C
12	0.	WSW 1.	0.	C	0.	C
13	0.	W 1.	0.	C	0.	C
14	0.	WSW 1.	0.	C	0.	C
15	0.	W 1.	0.	C	0.	C
16	0.	W 1.	0.	C	0.	C
17	0.	W 1.	0.	C	0.	C
18	0.	C	0.	C	0.	C
19	0.	C	0.	C	0.	C
20	0.	C	0.	C	0.	C
21	0.	C	0.	C	0.	C
22	0.	C	0.	C	0.	C
23	0.	C	0.	C	0.	C
24	0.	C	0.	C	0.	C
TOT	.00	9.	.00	4.	.00	17.
AVE	-22.	W	-14.	SW	-12.	SW
MAX	-10.	1.	-4.	1.	-5.	2.
MIN	-39.	0.	-24.	0.	-25.	0.

ALASKA FIELD STATION MARCH 1971

13 14 15 NOT REPRODUCIBLE

HOUR	13		14		15	
	PRECIP	WIND	PRECIP	WIND	PRECIP	WIND
	TEMP	DIRECT	TEMP	DIRECT	TEMP	DIRECT
	SPEED		SPEED		SPEED	
1	0.	WSW	0.	1.	0.	1.
2	0.	SW	0.	2.	0.	2.
3	0.	SW	0.	1.	0.	1.
4	0.	SSW	0.	1.	0.	1.
5	0.	SSW	0.	1.	0.	1.
6	0.	SW	0.	1.	0.	1.
7	0.	SW	0.	1.	0.	1.
8	0.	WSW	0.	1.	0.	1.
9	0.	SSW	0.	2.	0.	2.
10	0.	SW	0.	1.	0.	1.
11	0.	SW	0.	2.	0.	2.
12	0.	WSW	0.	1.	0.	1.
13	0.	WSW	0.	1.	0.	1.
14	0.	W	0.	1.	0.	1.
15	0.	SW	0.	2.	0.	2.
16	0.	SW	0.	2.	0.	2.
17	0.	SW	0.	1.	0.	1.
18	0.		0.		0.	
19	0.		0.		0.	
20	0.		0.		0.	
21	0.		0.		0.	
22	0.		0.		0.	
23	0.		0.		0.	
24	0.		0.		0.	
TOT	.00		.00	22.	.00	8.
AVE	-11.	SW	-20.	WSW	-12.	0.
MAX	-5.		-1.		8.	3.
MIN	-27.		-34.		-28.	0.

ALASKA FIELD STATION MARCH 1971

16

17

18

HOUR	16		17		18	
	PRECIP	WIND	PRECIP	WIND	PRECIP	WIND
	TEMP	DIRECT	TEMP	DIRECT	TEMP	DIRECT
	SPEED		SPEED		SPEED	
1	0.	M	0.	NE	0.	E
2	0.	M	0.	NE	0.	N
3	0.	M	0.	ESE	0.	C
4	0.	M	0.	ESE	0.	C
5	0.	M	0.		0.	C
6	0.	M	0.		0.	C
7	0.	M	0.	SE	0.	E
8	0.	M	0.	E	0.	C
9	0.	M	0.	SE	0.	ESE
10	0.	E	0.	SW	0.	W
11	0.	E	0.	SE	0.	WSW
12	0.	E	0.		0.	WSW
13	0.	ESE	0.		0.	WSW
14	0.	E	0.	W	0.	SW
15	0.	E	0.		0.	SW
16	0.	ESE	0.		0.	SW
17	0.	E	0.		0.	SW
18	0.	E	0.		0.	C
19	0.	SE	0.	NNE	0.	NE
20	0.	ESC	0.		0.	N
21	0.	SE	0.		0.	ENE
22	0.	ESE	0.		0.	NNE
23	0.	ESE	0.	E	0.	C
24	0.	E	0.	NNE	0.	C
TOT	.00		.00		.00	
AVE	28.		24.	SE	15.	WSW
MAX	35.		37.		37.	
MIN	-10.		6.		-2.	

ALASKA FIELD STATION MARCH 1971

19

20

21

19	20	21
WIND SPEED	WIND SPEED	WIND SPEED
PRECIP	PRECIP	PRECIP
TEMP	TEMP	TEMP
DIR	DIR	DIR
1 0.0	0.0	0.0
2 0.0	0.0	0.0
3 0.0	0.0	0.0
4 0.0	0.0	0.0
5 0.0	0.0	0.0
6 0.0	0.0	0.0
7 0.0	0.0	0.0
8 0.0	0.0	0.0
9 0.0	0.0	0.0
10 0.0	0.0	0.0
11 0.0	0.0	0.0
12 0.0	0.0	0.0
13 0.0	0.0	0.0
14 0.0	0.0	0.0
15 0.0	0.0	0.0
16 0.0	0.0	0.0
17 0.0	0.0	0.0
18 0.0	0.0	0.0
19 0.0	0.0	0.0
20 0.0	0.0	0.0
21 0.0	0.0	0.0
22 0.0	0.0	0.0
23 0.0	0.0	0.0
24 0.0	0.0	0.0
TOT .00	.00	.00
AVE 12.0	14.0	11.0
MAX 38.0	40.0	27.0
MIN -11.0	-5.0	-11.0

ALASKA FIELD STATION MARCH 1971

22

23

24

HOUR	22		23		24	
	PRECIP	WIND SPEED	PRECIP	WIND SPEED	PRECIP	WIND SPEED
1	0.	ENE 18.	0.	ENE 17.	0.	NNE 18.
2	0.	ENE 18.	0.	ENE 16.	0.	NNE 17.
3	0.	ENE 17.	0.	ENE 17.	0.	NE 17.
4	0.	ENE 17.	0.	ENE 16.	0.	NE 16.
5	0.	ENE 17.	0.	ENE 15.	0.	NE 16.
6	0.	NE 17.	0.	ENE 16.	0.	NNE 16.
7	0.	ENE 19.	0.	ENE 17.	0.	NE 18.
8	0.	NE 21.	0.	ENE 18.	0.	NE 21.
9	0.	ENE 23.	0.	NE 20.	0.	ENE 22.
10	0.	NE 24.	0.	ENE 22.	0.	NE 24.
11	0.	E 26.	0.	NE 23.	0.	NE 25.
12	0.	NE 27.	0.	ENE 24.	0.	NE 26.
13	0.	ENE 27.	0.	NE 25.	0.	ENE 26.
14	0.	ENE 26.	0.	NE 24.	0.	NE 25.
15	0.	ENE 25.	0.	NE 24.	0.	NE 25.
16	0.	ENE 23.	0.	NE 23.	0.	NE 25.
17	0.	ENE 20.	0.	ENE 22.	0.	NNE 23.
18	0.	NNE 18.	0.	ENE 21.	0.	NE 21.
19	0.	NE 17.	0.	NE 20.	0.	NE 20.
20	0.	NE 16.	0.	NE 19.	0.	NE 18.
21	0.	NE 16.	0.	NE 19.	0.	NE 15.
22	0.	NE 16.	0.	NE 19.	0.	NE 14.
23	0.	ENE 16.	0.	NE 19.	0.	NE 18.
24	0.	NE 16.	0.	NNE 18.	0.	NE 19.
TOT	.00	168.	.00	177.	.00	150.
AVE		ENE 7.		ENE 7.		NE 6.
MAX	20.	27.	20.	25.	20.	26.
MIN	16.	16.	15.	15.	14.	14.

ALASKA FIELD STATION MARCH 1971

25

26

27

HOUR	25		26		27	
	PRECIP	WIND SPEED	PRECIP	WIND SPEED	PRECIP	WIND SPEED
1	0.	16.	0.	12.	0.	-9.
2	0.	18.	0.	10.	0.	3.
3	0.	18.	0.	9.	0.	3.
4	0.	13.	0.	8.	0.	-1.
5	0.	0.	0.	8.	0.	-6.
6	0.	10.	0.	8.	0.	0.
7	0.	1.	0.	11.	0.	6.
8	0.	16.	0.	13.	0.	11.
9	0.	22.	0.	15.	0.	15.
10	0.	25.	0.	16.	0.	18.
11	0.	26.	0.	18.	0.	19.
12	0.	27.	0.	18.	0.	19.
13	0.	29.	0.	19.	0.	20.
14	0.	28.	0.	18.	0.	20.
15	0.	27.	0.	18.	0.	19.
16	0.	25.	0.	16.	0.	18.
17	0.	23.	0.	14.	0.	16.
18	0.	19.	0.	10.	0.	12.
19	0.	16.	0.	7.	0.	9.
20	0.	15.	0.	7.	0.	7.
21	0.	14.	0.	7.	0.	4.
22	0.	13.	0.	5.	0.	-2.
23	0.	13.	0.	5.	0.	6.
24	0.	12.	0.	-4.	0.	7.
TOT	.00	100.	.00	118.	.00	69.
AVE		ENE		NE		ENE
MAX	18.	4.	11.	5.	9.	3.
MIN	29.	7.	19.	8.	20.	5.
	0.	1.	-4.	2.	-9.	1.

ALASKA FIELD STATION MARCH 1971

28

29

30

HOUR	28		29		30	
	PRECIP	WIND SPEED	PRECIP	WIND SPEED	PRECIP	WIND SPEED
1	0.	7.	0.	NE	0.	NE
2	0.	8.	0.	ENE	0.	ENE
3	0.	8.	0.	ENE	0.	ENE
4	0.	0.	0.	ESE	0.	ESE
5	0.	-2.	0.	SE	0.	SE
6	0.	-6.	0.	SE	0.	SE
7	0.	2.	0.	SW	0.	SW
8	0.	10.	0.	SW	0.	SW
9	0.	16.	0.	SW	0.	SW
10	0.	21.	0.	NNE	0.	NNE
11	0.	25.	0.	NNE	0.	NNE
12	0.	25.	0.	ENE	0.	ENE
13	0.	25.	0.	E	0.	E
14	0.	25.	0.	E	0.	E
15	0.	26.	0.	ENE	0.	ENE
16	0.	24.	0.	NNE	0.	NNE
17	0.	21.	0.	N	0.	N
18	0.	17.	0.	N	0.	N
19	0.	15.	0.	NE	0.	NE
20	0.	12.	0.	NE	0.	NE
21	0.	9.	0.	NE	0.	NE
22	0.	1.	0.	ESE	0.	ESE
23	0.	-3.	0.	ESE	0.	ESE
24	0.	-7.	0.	C	0.	C
TOT	0.00	53.	0.00	NE	0.00	16.
AVE		12.		NE		6.
MAX		26.				26.
MIN		-7.				-14.

HOUR	28		29		30	
	PRECIP	WIND SPEED	PRECIP	WIND SPEED	PRECIP	WIND SPEED
1	0.	4.	0.	NE	0.	NE
2	0.	3.	0.	NNE	0.	NNE
3	0.	3.	0.	C	0.	C
4	0.	2.	0.	C	0.	C
5	0.	1.	0.	C	0.	C
6	0.	C	0.	C	0.	C
7	0.	1.	0.	NE	0.	NE
8	0.	1.	0.	SW	0.	SW
9	0.	1.	0.	WSW	0.	WSW
10	0.	2.	0.	W	0.	W
11	0.	2.	0.	W	0.	W
12	0.	3.	0.	SW	0.	SW
13	0.	4.	0.	SW	0.	SW
14	0.	4.	0.	SW	0.	SW
15	0.	3.	0.	SW	0.	SW
16	0.	4.	0.	W	0.	W
17	0.	3.	0.	WNW	0.	WNW
18	0.	3.	0.	W	0.	W
19	0.	2.	0.	C	0.	C
20	0.	3.	0.	C	0.	C
21	0.	2.	0.	E	0.	E
22	0.	1.	0.	E	0.	E
23	0.	1.	0.	C	0.	C
24	0.	C	0.	C	0.	C
TOT	0.00	53.	0.00	16.	0.00	20.
AVE		2.		SW		1.
MAX		4.				25.
MIN		0.				-19.

- 10-



ALASKA FIELD STATION MARCH 1971

31

HOUR PRECIP TEMPDIRECT WIND-  
SPEED

1	0.	-16.	N	1.
2	0.	-17.	N	1.
3	0.	-17.	C	
4	0.	-19.	N	1.
5	0.	-19.	C	
6	0.	-16.	N	1.
7	0.	-11.	N	1.
8	0.	-3.	C	
9	0.	4.	C	
10	0.	8.	C	
11	0.	14.	WSW	1.
12	0.	17.	SSW	1.
13	0.	17.	SW	2.
14	0.	22.	WSW	1.
15	0.	24.	SW	2.
16	0.	20.	SW	1.
17	0.	21.	NE	2.
18	0.	15.	N	3.
19	0.	10.	N	3.
20	0.	8.	N	3.
21	0.	7.	NE	2.
22	0.	5.	NE	3.
23	0.	2.	NE	2.
24	0.	1.	E	1.
TOT	00			32.
AVE		3.	N	1.
MAX		24.		3.
MIN		-19.		0.

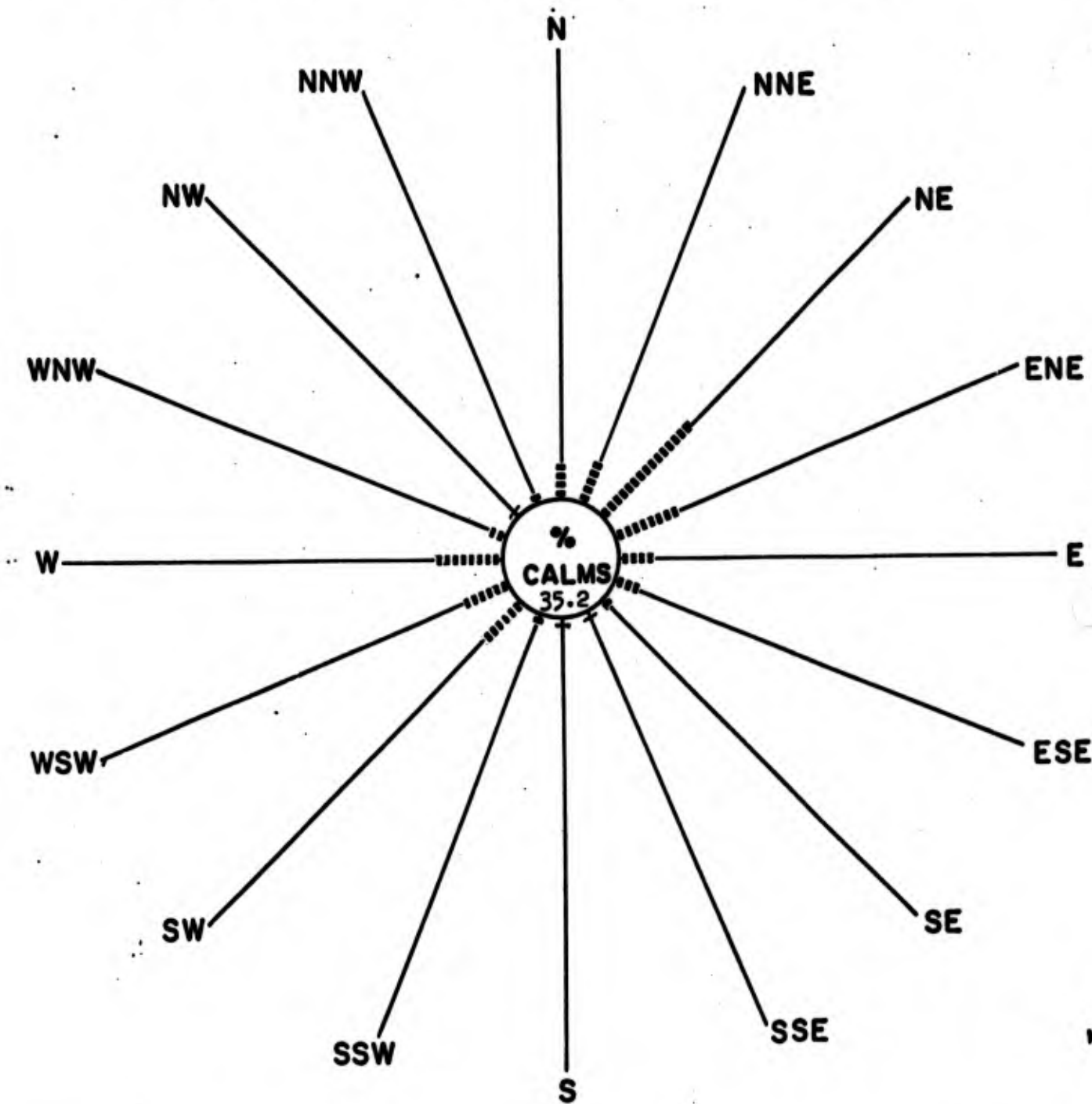
W I N D R O S E  
ALASKA FIELD STATION MARCH 1971

DIR	HOURLY OBSERVATIONS OF WIND SPEEDS												TOT	AVG SPD	
	1--3	4--7	8--12	13--18	19--24	25--31	32--38	39--46	OVER 46						
N	FREQ	22	3	0	0	0	0	0	0	0	0	0	0	25	2
	PCT	3.13	.43	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.56	
NNE	FREQ	28	8	1	0	0	0	0	0	0	0	0	0	37	3
	PCT	3.99	1.14	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.27	
NE	FREQ	42	46	16	0	0	0	0	0	0	0	0	0	104	4
	PCT	5.98	6.55	2.28	.00	.00	.00	.00	.00	.00	.00	.00	.00	14.81	
ENE	FREQ	17	25	11	0	0	0	0	0	0	0	0	0	53	5
	PCT	2.42	3.56	1.57	.00	.00	.00	.00	.00	.00	.00	.00	.00	7.55	
E	FREQ	17	11	0	0	0	0	0	0	0	0	0	0	28	3
	PCT	2.42	1.57	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.99	
ESE	FREQ	19	5	0	0	0	0	0	0	0	0	0	0	24	2
	PCT	2.71	.71	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.42	
SE	FREQ	9	1	0	0	0	0	0	0	0	0	0	0	10	2
	PCT	1.28	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.42	
SSE	FREQ	3	0	0	0	0	0	0	0	0	0	0	0	3	2
	PCT	.43	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.43	
S	FREQ	2	0	0	0	0	0	0	0	0	0	0	0	2	1
	PCT	.28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.28	
SSW	FREQ	8	0	0	0	0	0	0	0	0	0	0	0	8	1
	PCT	1.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.14	
SW	FREQ	44	0	0	0	0	0	0	0	0	0	0	0	44	1
	PCT	6.27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	6.27	
WSW	FREQ	45	0	0	0	0	0	0	0	0	0	0	0	45	1
	PCT	6.41	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	6.41	
W	FREQ	54	0	0	0	0	0	0	0	0	0	0	0	54	1
	PCT	7.69	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	7.69	
WNW	FREQ	11	0	0	0	0	0	0	0	0	0	0	0	11	2
	PCT	1.57	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.57	
NW	FREQ	3	0	0	0	0	0	0	0	0	0	0	0	3	2
	PCT	.43	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.43	
NNW	FREQ	4	0	0	0	0	0	0	0	0	0	0	0	4	1
	PCT	.57	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.57	
TOT	FREQ	328	99	28	0	0	0	0	0	0	0	0	0	455	
	PCT	46.72	14.10	3.99	.00	.00	.00	.00	.00	.00	.00	.00	.00	64.81	
CALM FREQ 247 PCT 35.19												MISSING FREQ 42. PCT	5.65		

ALASKA FIELD STATION

# WIND ROSE

MARCH 1971



- 13 -

5.7 % OF DATA MISSING

LEGEND: EACH BLIP EQUALS ONE PERCENT OF DIRECTION FREQUENCY.

1 TO 12 MPH    0000000000  
13 TO 31 MPH    0000000000  
32 AND OVER    0000000000

ALASKA FIELD STATION MARCH 1971  
 HOURLY AVERAGES FOR THE MONTH

- WIND WIND-

HOURLY PRECIP TEMPOIRECT SPEED

1	T	-12.	NE	2.
2	T	-11.	NNE	2.
3	T	-11.	NE	1.
4	T	-12.	ENE	1.
5	T	-13.	NE	1.
6	T	-12.	NNE	1.
7	T	-9.	NE	1.
8	T	-4.	NE	1.
9	T	0.	WSW	2.
10	T	4.	W	2.
11	T	6.	W	2.
12	T	0.	WSW	2.
13	T	9.	W	3.
14	T	10.	W	3.
15	T	10.	SW	3.
16	T	8.	SW	2.
17	T	6.	NE	2.
18	T	2.	NNE	2.
19	T	-3.	NE	2.
20	T	-5.	NE	2.
21	T	-7.	NE	2.
22	T	-8.	NE	1.
23	T	-9.	NE	1.
24	T	-10.	NE	1.

ALASKA FIELD STATION MARCH 1971  
 MONTHLY CLIMATOLOGICAL SUMMARY

WIND WIND-  
 HOUR PRECIP TEMP DIRECT SPEED

TOT	.37		
AVE	-3.	NE	2.
AVMAX	11.	NE	10.
AVMIN	-18.		

AVE MAX WIND SPEED AND DIRECTION IS ACTUAL MAXIMUM SPEED AND CONCURRENT DIRECTION  
 THE MAXIMUM SPEED OCCURRED 1. TIME

FOX LOWER MARCH 1971

1

2

3

HOUR	1 - WIND WIND-		2 - WIND WIND-		3 - WIND WIND-			
	PRECIP	TEMPDIRECT SPEED	PRECIP	TEMPDIRECT SPEED	PRECIP	TEMPDIRECT SPEED		
1	T	-2.	N	5.	0.	-33.	M	2.
2	.01	-2.	NNE	5.	.01	-14.	NE	3.
3	.02	-2.	NNE	5.	.01	-14.	NNE	4.
4	.02	-1.	NNE	5.	T	-15.	N	4.
5	.01	-1.	NNE	5.	T	-16.	N	5.
6	0.	-1.	NNE	5.	T	-16.	NNE	4.
7	.01	-1.	NNE	5.	.01	-17.	NNE	4.
8	.02	-1.	NNE	5.	0.	-17.	N	3.
9	.01	-2.	NNE	5.	0.	-17.	N	3.
10	T	-2.	NNW	5.	0.	-16.	NNE	3.
11	0.	-1.	NNW	5.	0.	-14.	M	4.
12	0.	-1.	NNW	5.	0.	-14.	M	4.
13	0.	-1.	NNW	5.	0.	-13.	M	4.
14	0.	-2.	NNE	5.	0.	-12.	M	4.
15	0.	-3.	N	6.	0.	-13.	M	3.
16	T	-4.	NNW	6.	0.	-13.	M	3.
17	T	-6.	NNW	5.	0.	-14.	M	2.
18	.01	-8.	NNW	5.	0.	-15.	M	2.
19	.01	-9.	N	4.	0.	-15.	M	2.
20	T	-10.	N	4.	0.	-16.	M	1.
21	.01	-10.	NNE	4.	0.	-19.	M	1.
22	T	-11.	N	4.	0.	-20.	M	1.
23	.01	-12.	NNE	4.	0.	-25.	M	1.
24	.01	-13.	NNE	3.	0.	-33.	M	2.
TOT	.15			115.	.02			70.
AVE		-4.	NNE	5.		-16.		
MAX		-1.		6.		-12.		
MIN		-13.		3.		-33.		
					.00			37.
						-28.		2.
						-16.		3.
						-40.		1.

FOX LOWER MARCH 1971

4

5

6

HOUR	- WIND WIND-		- WIND WIND-		- WIND WIND-							
	PRECIP	TEMPDIRECT SPEED	PRECIP	TEMPDIRECT SPEED	PRECIP	TEMPDIRECT SPEED						
1	0.	-30.	NE	2.	0.	-34.	ESE	2.	0.	-36.	ENE	1.
2	0.	-31.	E	1.	0.	-30.	ESE	2.	0.	-39.	ENE	1.
3	0.	-29.	ESE	2.	0.	-32.	E	2.	0.	-40.	ENE	1.
4	0.	-29.	ENE	2.	0.	-35.	ESE	2.	0.	-40.	ENE	1.
5	0.	-31.	E	2.	0.	-32.	NE	2.	0.	-38.	ENE	2.
6	0.	-35.	E	2.	0.	-30.	NE	3.	0.	-35.	NE	1.
7	0.	-36.	E	2.	0.	-30.	NE	4.	0.	-36.	C	
8	0.	-38.	ENE	2.	0.	-26.	NE	3.	0.	-36.	NE	1.
9	0.	-32.	E	2.	0.	-23.	NE	3.	0.	-33.	SSW	1.
10	0.	-24.	ESE	2.	0.	-21.	NE	4.	0.	-29.	SW	1.
11	0.	-21.	NE	3.	0.	-19.	NE	6.	0.	-27.	SW	3.
12	0.	-18.	N	4.	0.	-19.	NE	7.	0.	-26.	WSW	3.
13	0.	-17.	N	4.	0.	-18.	NE	7.	0.	-25.	WSW	3.
14	0.	-18.	N	4.	0.	-18.	NE	6.	0.	-22.	WSW	2.
15	0.	-18.	N	4.	0.	-19.	NE	5.	0.	-23.	WSW	3.
16	0.	-20.	N	3.	0.	-20.	NE	5.	0.	-25.	WSW	3.
17	0.	-22.	NNE	2.	0.	-21.	NE	5.	0.	-25.	SW	3.
18	0.	-27.	NE	2.	0.	-25.	NE	3.	0.	-26.	WSW	1.
19	0.	-32.	E	3.	0.	-32.	E	2.	0.	-26.	WSW	1.
20	0.	-32.	ESE	3.	0.	-33.	ENE	1.	0.	-26.	SW	1.
21	0.	-28.	E	2.	0.	-33.	ESE	2.	0.	-27.	SW	1.
22	0.	-27.	E	3.	0.	-32.	E	2.	0.	-27.	WSW	1.
23	0.	-28.	E	2.	0.	-32.	ESE	2.	0.	-27.	C	
24	0.	-32.	E	3.	0.	-33.	E	2.	0.	-27.	WSW	1.
TOT	.00			61.	.00			82.	.00			36.
AVE		-27.	E	3.		-27.	NE	3.		-30.	WSW	1.
MAX		-17.		4.		-18.		7.		-22.		3.
MIN		-38.		1.		-35.		1.		-40.		0.

FOX LOWER MARCH 1971

7

8

9

HOUR	7		8		9		
	PRECIP	WIND- DIRECT SPEED	PRECIP	WIND- DIRECT SPEED	PRECIP	WIND- DIRECT SPEED	
1	0.	WSW 1.	T -37.	ENE 1.	0.	-38.	M 1.
2	0.	SW 1.	T -37.	E 1.	0.	-37.	M 1.
3	T	SW 1.	-33.	NE 1.	0.	-36.	M 2.
4	.02	SW 1.	-36.	ESE 1.	0.	-37.	M 1.
5	0.	C	-35.	ENE 1.	0.	-36.	M 1.
6	0.	C	-33.	C	0.	-32.	C
7	0.	C	-34.	C	0.	-32.	C
8	0.	SW 1.	-31.	C	0.	-32.	C
9	0.	SW 1.	-27.	SW 1.	0.	-27.	SSW 1.
10	0.	SW 1.	-24.	SW 3.	0.	-22.	WSW 2.
11	0.	SW 1.	-21.	SW 3.	0.	-20.	WSW 2.
12	0.	SW 1.	-22.	SW 3.	0.	-20.	SW 5.
13	0.	WSW 2.	-20.	M 3.	0.	-15.	SW 3.
14	0.	WSW 2.	-20.	M 3.	0.	-11.	WSW 2.
15	0.	SW 2.	-19.	M 3.	0.	-14.	SW 3.
16	0.	SW 2.	-16.	M 1.	0.	-15.	WSW 2.
17	0.	SSW 2.	-19.	M 1.	0.	-16.	SW 2.
18	0.	E 1.	-25.	M 1.	0.	-20.	ESE 1.
19	0.	E 2.	-32.	M 2.	0.	-27.	ESE 2.
20	0.	E 2.	-34.	M 2.	0.	-29.	E 1.
21	T	E 1.	-35.	M 1.	0.	-31.	E 2.
22	T	E 1.	-33.	M 1.	0.	-32.	E 1.
23	T	C	-32.	M 1.	0.	-32.	E 1.
24	T	ENE 1.	-37.	M 1.	0.	-34.	E 1.
TOT	.02		T		.00		37.
AVE	-25.	SW	-29.		-27.		2.
MAX	-10.		-16.		-11.		5.
MIN	-37.		-37.		-38.		0.



FOX LOWER MARCH 1971

10

11

12

HOUR	10		11		12	
	PRECIP	WIND	PRECIP	WIND	PRECIP	WIND
1	0.	E 1.	0.	ESE 1.	0.	E 1.
2	0.	ENE 1.	0.	E 1.	0.	E 1.
3	0.	E 1.	0.	E 1.	0.	NE 1.
4	0.	ENE 1.	0.	NE 1.	0.	E 1.
5	0.	E 1.	0.	E 1.	0.	SE 1.
6	0.	NE 1.	0.	E 1.	0.	C
7	0.	C 1.	0.	E 1.	0.	C
8	0.	SW 2.	0.	SW 1.	0.	SW 1.
9	0.	SW 2.	0.	WSW 2.	0.	SW 1.
10	0.	SW 3.	0.	WSW 2.	0.	SW 1.
11	0.	WSW 3.	0.	WSW 2.	0.	WSW 3.
12	0.	WSW 2.	0.	WSW 3.	0.	WSW 4.
13	0.	WSW 3.	0.	WSW 2.	0.	WSW 4.
14	0.	WSW 3.	0.	SW 2.	0.	WSW 3.
15	0.	WSW 3.	0.	SW 2.	0.	WSW 2.
16	0.	SSW 3.	0.	ESE 1.	0.	SW 1.
17	0.	ESE 1.	0.	E 1.	0.	NNW 2.
18	0.	E 1.	0.	ESE 2.	0.	NNW 4.
19	0.	ENE 1.	0.	ENE 1.	0.	NW 2.
20	0.	ESE 1.	0.	E 1.	0.	WSW 2.
21	0.	NE 1.	0.	ENE 1.	0.	WSW 3.
22	0.	C 1.	0.	E 1.	0.	WSW 3.
23	0.	C 1.	0.	E 1.	0.	WSW 3.
24	0.	C 1.	0.	E 1.	0.	WSW 3.
TOT	.00	37.	.00	27.	.00	45.
AVE	-20.	SW 2.	-15.	E 1.	-13.	WSW 2.
MAX	-9.	3.	-7.	3.	-6.	4.
MIN	-34.	0.	-23.	0.	-24.	0.

FOX LOWER MARCH 1971

13

14

15

HOUR	13		14		15		
	PRECIP	WIND SPEED	TEMP	DIRECT WIND	PRECIP	TEMP	DIRECT WIND
1	0.	SW	-10.	E	0.	-25.	E
2	0.	WSW	-11.	ENE	0.	-25.	NE
3	0.	SW	-10.	E	0.	-21.	E
4	0.	WSW	-11.	E	0.	-20.	C
5	0.	WSW	-11.	E	0.	-19.	C
6	0.	WSW	-12.	ESE	0.	-17.	C
7	0.	WSW	-12.	ENE	0.	-19.	E
8	0.	WSW	-12.	E	0.	-21.	ESE
9	0.	WSW	-12.	SW	0.	-17.	SSW
10	0.	WSW	-11.	SW	0.	-7.	SW
11	0.	WSW	-10.	SW	0.	-5.	WSW
12	0.	WSW	-8.	WSW	0.	-2.	W
13	0.	WSW	-6.	WSW	0.	1.	WSW
14	0.	WSW	-5.	WSW	0.	4.	SE
15	0.	SW	-6.	SW	0.	5.	WSW
16	0.	SW	-7.	WSW	0.	4.	WSW
17	0.	SW	-8.	WSW	0.	-1.	WSW
18	T	SW	-9.	E	0.	-12.	ESE
19	T	ESE	-11.	E	0.	-16.	ESE
20	T	ESE	-14.	ESE	0.	-17.	ENE
21	T	E	-14.	ESE	0.	-17.	ENE
22	T	E	-14.	E	0.	-17.	ENE
23	0.	E	-17.	ENE	0.	-19.	NE
24	0.	ENE	-20.	ENE	0.	-16.	E
TOT	T				.00		
AVE		WSW	-11.	E		-12.	WSW
MAX			-5.			5.	
MIN			-20.			-25.	

FOX LOWER MARCH 1971

	16		17		18	
	- WIND WIND-		- WIND WIND-		- WIND WIND-	
	PRECIP	TEMPDIRECT SPEED	PRECIP	TEMPDIRECT SPEED	PRECIP	TEMPDIRECT SPEED
1	0.	-9.	0.	31.	0.	16.
2	0.	-7.	0.	29.	0.	14.
3	0.	8.	0.	31.	0.	11.
4	0.	20.	0.	29.	0.	17.
5	0.	22.	0.	21.	0.	5.
6	0.	23.	0.	16.	0.	4.
7	0.	24.	0.	12.	0.	4.
8	0.	25.	0.	16.	0.	8.
9	0.	27.	0.	23.	0.	16.
10	0.	29.	0.	37.	0.	22.
11	0.	32.	0.	38.	0.	27.
12	0.	32.	0.	38.	0.	32.
13	0.	33.	0.	38.	0.	36.
14	0.	33.	0.	38.	0.	39.
15	0.	33.	0.	37.	0.	40.
16	0.	33.	0.	36.	0.	40.
17	0.	33.	0.	31.	0.	38.
18	0.	33.	0.	28.	0.	28.
19	0.	31.	0.	26.	0.	20.
20	0.	32.	0.	26.	0.	17.
21	0.	33.	0.	27.	0.	13.
22	0.	32.	0.	24.	0.	12.
23	0.	33.	0.	20.	0.	10.
24	0.	33.	0.	19.	0.	10.
TOT	.00	108.	.00	55.	.00	37.
AVE		NE		NE		E
MAX	26.	4.	28.	2.	20.	2.
MIN	33.	8.	38.	5.	40.	3.
	-9.	1.	12.	0.	4.	1.

FOX LOWER MARCH 1971

19

20

21

HOUR	PRECIP	WIND DIRECTION	WIND SPEED	PRECIP	WIND DIRECTION	WIND SPEED	PRECIP	WIND DIRECTION	WIND SPEED
1	0.	ENE	2.	0.	ESE	3.	0.	E	9.
2	0.	NE	2.	0.	ESE	2.	0.	E	7.
3	0.	ENE	2.	0.	ENE	1.	0.	NE	11.
4	0.	ENE	2.	0.	E	1.	0.	E	5.
5	0.	E	2.	0.	NE	1.	0.	ESE	4.
6	0.	ENE	2.	0.	NE	1.	0.	E	3.
7	0.	ENE	3.	0.	NE	1.	0.	ESE	5.
8	0.	ENE	2.	0.	NE	1.	0.	ESE	8.
9	0.	ENE	2.	0.	C	C	0.	SW	11.
10	0.	C	C	0.	C	C	0.	C	18.
11	0.	C	C	0.	NE	5.	0.	SW	24.
12	0.	C	C	0.	NE	8.	0.	WNW	27.
13	0.	C	C	0.	NE	8.	0.	NE	28.
14	0.	SSW	2.	0.	NE	8.	0.	ENE	28.
15	0.	NNW	5.	0.	NE	9.	0.	N	27.
16	0.	E	5.	0.	NE	8.	0.	NE	28.
17	0.	NE	2.	0.	NE	8.	0.	NE	25.
18	0.	E	1.	0.	NE	7.	0.	NE	20.
19	0.	E	2.	0.	ESE	3.	0.	NE	15.
20	0.	ESE	2.	0.	ENE	2.	0.	NE	16.
21	0.	ENE	1.	0.	NE	2.	0.	NNE	17.
22	0.	E	2.	0.	ESE	2.	0.	NE	16.
23	0.	ESE	2.	0.	E	3.	0.	NE	15.
24	0.	ESE	2.	0.	ESE	4.	0.	NNE	14.
TOT	.00		45.	.00		88.	.00		96.
AVE		ENE	2.		NE	4.		NE	4.
MAX	18.		5.	17.		9.	16.		16.
MIN	39.		0.	38.		0.	28.		28.
	2.			0.			3.		3.

FOX LOWER MARCH 1971

22

23

24

HOUR	PRECIP	WIND- TEMPDIRECT SPEED	WIND- TEMPDIRECT SPEED	PRECIP	WIND- TEMPDIRECT SPEED	PRECIP	WIND- TEMPDIRECT SPEED
1	0.	NE 13.	NNE 13.	0.	NNE 13.	0.	NE 16.
2	0.	NE 12.	NE 13.	0.	NE 12.	0.	NE 16.
3	0.	NE 13.	NE 13.	0.	NE 12.	0.	NE 15.
4	0.	NE 13.	NE 13.	0.	NE 11.	0.	NE 17.
5	0.	NE 13.	NE 13.	0.	NE 12.	0.	NE 16.
6	0.	NE 14.	NE 13.	0.	NE 12.	0.	NE 17.
7	0.	NE 15.	NE 13.	0.	NE 12.	0.	NE 16.
8	0.	NE 16.	NE 12.	0.	NE 12.	0.	NE 16.
9	0.	NE 19.	NE 14.	0.	NE 14.	0.	NE 18.
10	0.	NE 23.	NE 16.	0.	NE 16.	0.	NE 17.
11	0.	NE 24.	NE 16.	0.	NE 15.	0.	NE 19.
12	0.	NE 26.	NE 14.	0.	NE 17.	0.	NE 19.
13	0.	NE 25.	NE 16.	0.	NE 17.	0.	NNE 18.
14	0.	NE 24.	NE 16.	0.	NE 18.	0.	NE 17.
15	0.	NE 23.	NE 16.	0.	NE 18.	0.	NE 18.
16	0.	NE 21.	NE 17.	0.	NE 16.	0.	NE 17.
17	0.	NNE 19.	NE 16.	0.	NE 17.	0.	NE 15.
18	0.	NE 16.	NE 18.	0.	NE 16.	0.	NE 11.
19	0.	NE 16.	NE 15.	0.	NE 15.	0.	NE 10.
20	0.	NE 15.	NE 13.	0.	NE 15.	0.	NE 10.
21	0.	NE 15.	NE 14.	0.	NE 12.	0.	NE 9.
22	0.	NE 15.	NE 14.	0.	NE 12.	0.	NE 10.
23	0.	NE 14.	NE 14.	0.	NE 13.	0.	NE 9.
24	0.	NE 14.	NE 11.	0.	NE 13.	0.	NE 8.
TOT	.00	332.	.00	337.	354.	.00	354.
AVE	17.	NE 14.	NE 17.	NE 14.	NE 15.	17.	NE 15.
MAX	26.	18.	23.	18.	23.	23.	19.
MIN	12.	7.	13.	11.	8.	13.	8.

FOX LOWER MARCH 1971

27

26

25

HOUR	25		26		27	
	PRECIP	WIND SPEED	PRECIP	WIND SPEED	PRECIP	WIND SPEED
1	0.	13.	0.	9.	0.	4.
2	0.	14.	0.	9.	0.	4.
3	0.	13.	0.	9.	0.	3.
4	0.	13.	0.	9.	0.	2.
5	0.	12.	0.	9.	0.	0.
6	0.	10.	0.	9.	0.	-1.
7	0.	10.	0.	9.	0.	2.
8	0.	15.	0.	10.	0.	7.
9	0.	20.	0.	12.	0.	12.
10	0.	23.	0.	14.	0.	14.
11	0.	25.	0.	15.	0.	17.
12	0.	27.	0.	16.	0.	18.
13	0.	28.	0.	17.	0.	19.
14	0.	27.	0.	17.	0.	19.
15	0.	26.	0.	15.	0.	18.
16	0.	25.	0.	15.	0.	15.
17	0.	22.	0.	11.	0.	15.
18	0.	18.	0.	9.	0.	11.
19	0.	15.	0.	7.	0.	9.
20	0.	13.	0.	6.	0.	8.
21	0.	12.	0.	5.	0.	7.
22	0.	12.	0.	5.	0.	6.
23	0.	12.	0.	5.	0.	6.
24	0.	10.	0.	5.	0.	6.
TOT	.00	206.	.00	10.	.00	200.
AVE	17.	9.	10.	10.	9.	8.
MAX	28.	14.	17.	17.	19.	12.
MIN	10.	6.	5.	5.	-1.	5.

FOX LOWER MARCH 1971

28

29

30

HOUR	- WIND WIND-		- WIND WIND-		- WIND WIND-	
	PRECIP	TEMPDIRECT SPEED	PRECIP	TEMPDIRECT SPEED	PRECIP	TEMPDIRECT SPEED
1	0.	6. NE	0.	5. NE	0.	-11. E
2	0.	7. NE	0.	4. ENE	0.	-14. ENE
3	0.	7. NE	0.	2. E	0.	-16. E
4	0.	8. NE	0.	0. E	0.	-16. E
5	0.	8. NNE	0.	-7. ENE	0.	-18. NE
6	0.	7. NE	0.	-9. NE	0.	-19. NNE
7	0.	7. NE	0.	-10. NE	0.	-14. ENE
8	0.	10. NE	0.	-4. WSW	0.	-7. S
9	0.	14. NE	0.	9. C	0.	5. C
10	0.	18. NNE	0.	21. SW	0.	15. SW
11	0.	20. NNE	0.	25. SW	0.	20. WSW
12	0.	22. NE	0.	26. WSW	0.	21. SW
13	0.	23. NNE	0.	31. W	0.	25. WSW
14	0.	24. NNE	0.	30. SW	0.	26. WSW
15	0.	23. NNE	0.	24. SSW	0.	27. SW
16	0.	21. NE	0.	22. NNE	0.	27. SW
17	0.	21. NE	0.	18. NNW	0.	25. SW
18	0.	17. NNE	0.	12. NNW	0.	16. SSW
19	0.	14. NNE	0.	0. ESE	0.	5. ESE
20	0.	12. NE	0.	-3. E	0.	0. ENE
21	0.	9. NE	0.	-5. E	0.	-4. E
22	0.	8. NE	0.	-7. E	0.	-6. E
23	0.	7. NNE	0.	-7. E	0.	-8. E
24	0.	7. NNE	0.	-9. E	0.	-9. E
TOT	.00	180.	.00	59.	.00	57.
AVE		13. NE		7. E		3. E
MAX		24.		31.		27.
MIN		6.		-10.		-19.

31 ..

	PRECIP	TEMP	DIRECT	WIND SPEED
1	0.	-9.	ENE	3.
2	0.	-11.	ESE	2.
3	0.	-12.	E	2.
4	0.	-13.	E	2.
5	0.	-11.	NE	2.
6	0.	-8.	ENE	1.
7	0.	-7.	ESE	1.
8	0.	0.	ENE	1.
9	0.	8.	SSW	2.
10	0.	13.	NNE	3.
11	0.	16.	SSW	4.
12	0.	21.	SW	3.
13	0.	21.	SW	4.
14	0.	25.	WSW	3.
15	0.	27.	NNE	5.
16	0.	19.	NE	10.
17	0.	16.	NNE	10.
18	0.	11.	NE	12.
19	0.	9.	NE	13.
20	0.	7.	NNE	13.
21	0.	5.	NE	13.
22	0.	5.	NE	13.
23	0.	4.	NE	12.
24	0.	3.	NNE	13.
TOT	.00			147.
AVL		6.	NE	6.
MAX		27.		13.
MIN		-13.		1.



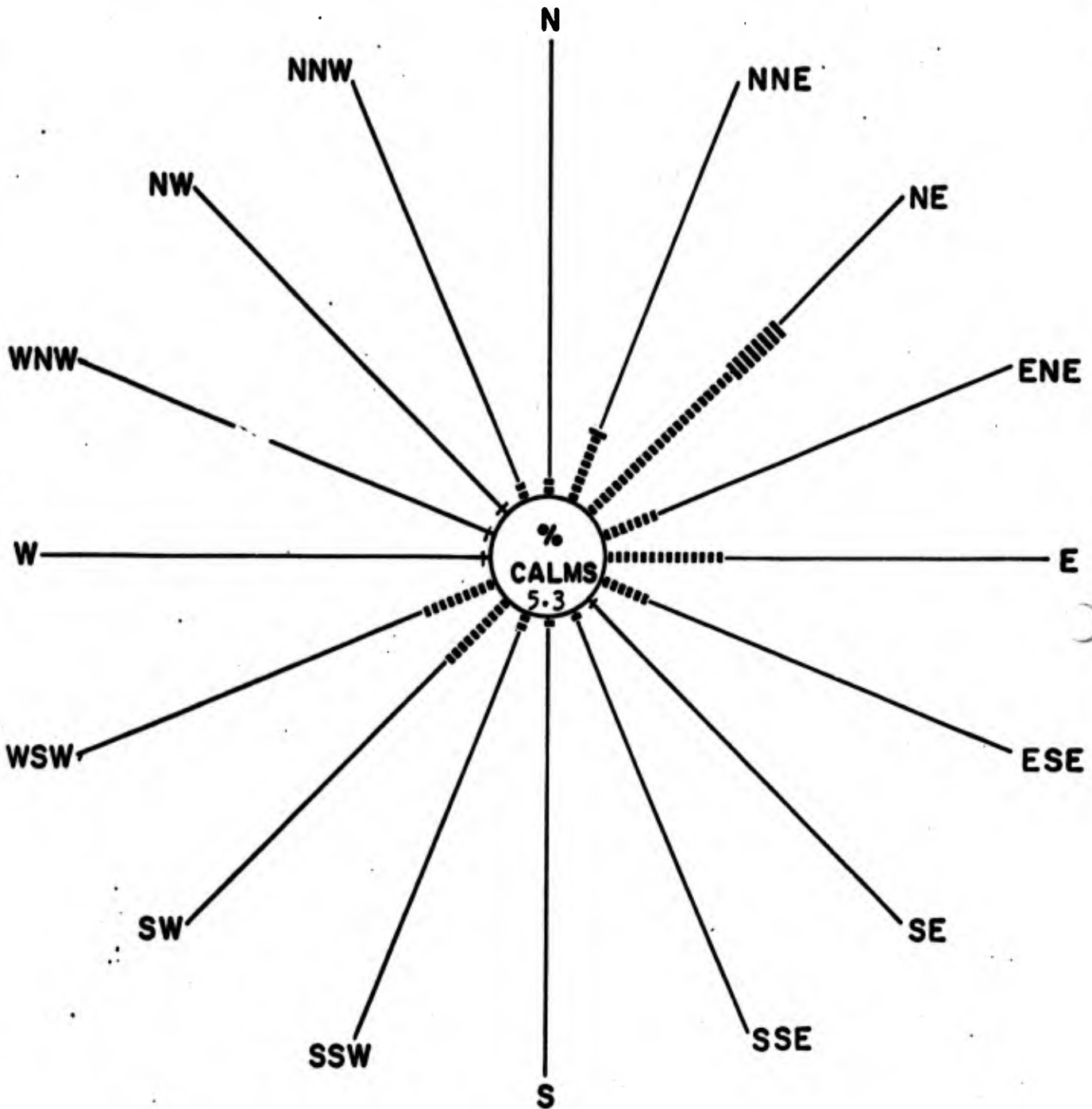
W I N D R O S E  
FOX LOWER MARCH 1971

DIR	HOURLY OBSERVATIONS OF WIND SPEEDS												AVG SPD	
	1--3	4--7	8--12	13--18	19--24	25--31	32--38	39--46	OVER 46	TOT				
N	FREQ 4	11	0	0	0	0	0	0	0	0	0	0	15	4
	PCT .57	1.56	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.13	7
NNE	FREQ 8	28	18	5	.71	0	0	0	0	0	0	0	59	
	PCT 1.14	3.98	2.56	.71	.71	.00	.00	.00	.00	.00	.00	.00	8.39	
NE	FREQ 42	50	72	55	7.82	0	0	0	0	0	0	0	221	
	PCT 5.97	7.11	10.24	7.82	7.82	.00	.00	.00	.00	.00	.00	.00	31.44	
ENE	FREQ 49	3	0	0	0	0	0	0	0	0	0	0	52	
	PCT 6.97	.43	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	7.40	
E	FREQ 93	4	0	0	0	0	0	0	0	0	0	0	97	
	PCT 15.23	.57	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	13.80	
ESE	FREQ 41	2	0	0	0	0	0	0	0	0	0	0	43	
	PCT 5.83	.28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	6.12	
SE	FREQ 2	1	0	0	0	0	0	0	0	0	0	0	3	
	PCT .28	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.43	
SSE	FREQ 4	3	0	0	0	0	0	0	0	0	0	0	7	
	PCT .57	.43	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.00	
S	FREQ 2	2	0	0	0	0	0	0	0	0	0	0	4	
	PCT .28	.28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.57	
SSW	FREQ 12	3	0	0	0	0	0	0	0	0	0	0	15	
	PCT 1.71	.43	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.13	
SW	FREQ 63	5	0	0	0	0	0	0	0	0	0	0	68	
	PCT 8.96	.71	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	9.67	
WSW	FREQ 56	9	0	0	0	0	0	0	0	0	0	0	65	
	PCT 7.97	1.28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	9.25	
W	FREQ 1	1	0	0	0	0	0	0	0	0	0	0	2	
	PCT .14	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.28	
WNW	FREQ 1	0	0	0	0	0	0	0	0	0	0	0	1	
	PCT .14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	
NW	FREQ 1	1	0	0	0	0	0	0	0	0	0	0	2	
	PCT .14	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.28	
NNW	FREQ 3	9	0	0	0	0	0	0	0	0	0	0	12	
	PCT .43	1.28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.71	
TOT	FREQ 382	132	90	60	60	0	0	0	0	0	0	0	666	
	PCT 54.34	18.78	12.80	8.53	8.53	.00	.00	.00	.00	.00	.00	.00	94.74	
	CALM FREQ 37	PCT	5.26										5.51	
						MISSING FREQ								41.

FOX LOWER

# WIND ROSE




MARCH 1971



- 28 -

5.5 % OF DATA MISSING

LEGEND: EACH BLIP EQUALS ONE PERCENT OF DIRECTION FREQUENCY.

1 TO 12 MPH   
13 TO 31 MPH   
32 AND OVER 

FOX LOWER MARCH 1971  
 HOURLY AVERAGES FOR THE MONTH

- WIND WIND-

HOURLY PRECIP TEMPDIRECT SPEED

1	T	-8.	NE	4.
2	T	-9.	NE	4.
3	T	-9.	NE	4.
4	T	-9.	E	4.
5	T	-9.	NE	4.
6	T	-9.	NE	4.
7	T	-9.	NE	4.
8	T	-7.	NE	4.
9	T	-2.	NE	4.
10	T	2.	SW	4.
11	.00	5.	SW	5.
12	.00	7.	NE	5.
13	.00	9.	WSW	6.
14	.00	9.	NE	5.
15	.00	9.	NE	6.
16	T	8.	NE	6.
17	T	6.	NE	5.
18	T	1.	NE	5.
19	T	-3.	NE	5.
20	T	-5.	NE	4.
21	T	-5.	NE	4.
22	T	-6.	E	4.
23	T	-7.	NE	4.
24	T	-8.	E	4.

FOX LOWER MARCH 1971  
MONTHLY CLIMATOLOGICAL SUMMARY

WIND WIND-  
HOUR PRECIP TEMP DIRECT SPEED

TOT	.19		
AVE	-2.	NE	4.
AVMAX	10.	NE	19.
AVMIN	-14.		

AVE MAX WIND SPEED AND DIRECTION IS ACTUAL MAXIMUM SPEED AND CONCURRENT DIRECTION  
THE MAXIMUM SPEED OCCURRED 2. TIMES

ARCTIC MEDICAL RSCH LAB MARCH 1971

1 . . . . . 2 NOT REPRODUCIBLE 3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
3.	4.	4.	2.	2.	3.	2.	2.	2.	3.	4.	3.	0.	-3.	-3.	-2.	-3.	-4.	-5.	-6.	-6.	-7.	-7.	-8.
M	M	M	C	C	M						M	M	M	M	M								M
1.	1.	2.	C	C	1.	C	C	C	C	C	1.	2.	3.	2.	2.	C	C	C	C	C	C	C	2.
768.	866.	888.	666.	629.	762.	727.	691.	652.	704.	679.	745.	919.	1069.	1037.	985.	773.	768.	747.	781.	712.	725.	667.	1087.
-9.	-10.	-11.	-11.	-11.	-12.	-13.	-12.	-13.	-12.	-11.	-10.	-10.	-10.	-11.	-11.	-11.	-11.	-11.	-12.	-12.	-13.	-16.	-22.
M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
2.	2.	3.	2.	2.	3.	3.	3.	3.	5.	5.	5.	6.	5.	6.	5.	5.	4.	2.	2.	2.	2.	1.	2.
1105.	1102.	1142.	1103.	1123.	1158.	1224.	1227.	1324.	1306.	1342.	1337.	1352.	1301.	1337.	1342.	1295.	1299.	1254.	1137.	1099.	1135.	945.	1201.
-24.	-23.	-25.	-30.	-26.	-25.	-25.	-24.	-24.	-22.	-21.	-17.	-14.	-15.	-17.	-18.	-19.	-22.	-23.	-24.	-26.	-27.	-26.	-26.
M	M	M	C	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
1.	1.	1.	C	1.	3.	3.	3.	3.	4.	3.	3.	2.	2.	1.	1.	C	C	C	C	C	C	C	C
1045.	1139.	1138.	989.	1102.	1317.	1362.	1338.	1377.	1349.	1285.	1286.	1128.	1084.	1050.	1015.	868.	814.	768.	834.	879.	809.	821.	799.

TOT	17.	86.	32.
AVE	1.	4.	1.
MAX	3.	6.	4.
MIN	0.	1.	0.

ARCTIC MEDICAL RSCH LAB MARCH 1971

4

5

6

Hour	Temp	Wind- Direct	Wind- Speed	Wind- Chill	Temp	Wind- Direct	Wind- Speed	Wind- Chill	Temp	Wind- Direct	Wind- Speed	Wind- Chill
1	-26.		C	890.	-35.	M	1.	1062.	-39.	M	1.	1116.
2	-25.		C	812.	-38.	M	1.	1128.	-37.	M	1.	1093.
3	-26.		C	883.	-39.		C	1050.	-37.	M	1.	1158.
4	-26.	M	1.	1149.	-38.	M	1.	1121.	-36.	M	1.	1119.
5	-28.		C	858.	-41.	M	1.	1174.	-35.	M	1.	1156.
6	-31.		C	868.	-42.		C	1019.	-34.		C	1035.
7	-32.		C	1006.	-39.	M	1.	1136.	-35.		C	1047.
8	-32.		C	918.	-37.	M	1.	1161.	-34.	M	1.	1045.
9	-29.		C	946.	-34.	M	1.	1140.	-32.	M	1.	1176.
10	-26.	M	1.	975.	-31.	M	1.	1145.	-31.	M	1.	1178.
11	-22.	M	1.	947.	-26.	M	1.	1040.	-31.	M	2.	1236.
12	-21.	M	1.	1074.	-24.	M	1.	1043.	-28.	M	1.	1134.
13	-18.	M	1.	1029.	-24.	M	2.	1176.	-26.	M	1.	1150.
14	-18.	M	1.	1007.	-20.	M	1.	1039.	-25.	M	1.	1123.
15	-18.	M	1.	1034.	-21.	M	1.	996.	-24.	M	1.	1086.
16	-19.		C	853.	-20.		C	915.	-24.	M	2.	1160.
17	-22.		C	932.	-23.		C	830.	-24.	M	2.	1256.
18	-23.	M	1.	960.	-29.	M	1.	1015.	-25.	M	2.	1184.
19	-27.		C	938.	-33.		C	941.	-25.	M	2.	1166.
20	-30.		C	992.	-38.	M	1.	1041.	-25.	M	1.	1102.
21	-32.	M	1.	1041.	-38.		C	943.	-24.	M	1.	1066.
22	-31.		C	988.	-38.		C	940.	-24.	M	1.	1098.
23	-31.	M	1.	1080.	-38.		C	843.	-25.	M	1.	1064.
24	-32.	M	1.	1098.	-40.	M	1.	1173.	-24.	M	1.	1004.
TOT		11.				17.				27.		
AVE	-26.	0.	970.		-33.	1.	1043.		-29.	1.	1123.	
MAX	-18.	1.	1149.		-20.	2.	1176.		-24.	2.	1256.	
MIN	-32.	0.	812.		-42.	0.	830.		-39.	0.	1004.	

ARCTIC MEDICAL RSCH LAB MARCH 1971

7	8	9	
NOT REPRODUCIBLE			
HOUR	WIND- WIND TEMPDIRECT SPEED CHILL	WIND- WIND TEMPDIRECT SPEED CHILL	WIND- WIND TEMPDIRECT SPEED CHILL
1	-24. M 2. 1160.	-33. M 1. 112A.	-35. C 865.
2	-24. M 1. 1131.	-34. M 3. 1407.	-39. C 883.
3	-24. M 2. 1157.	-30. M 2. 1315.	-40. C 994.
4	-24. M 1. 1037.	-31. C 1001.	-41. C 871.
5	-25. C 921.	-32. C 998.	-38. C 951.
6	-25. C 936.	-31. C 944.	-34. C 952.
7	-25. C 920.	-31. 1. 1111.	-33. C 997.
8	-25. C 875.	-31. M 2. 1230.	-30. C 848.
9	-25. M 1. 1055.	-28. M 2. 1257.	1. 1098.
10	-24. M 1. 1024.	-24. M 2. 1164.	2. 1223.
11	-17. C 886.	-23. M 2. 1179.	2. 1137.
12	-14. M 1. 961.	-21. M 2. 11A8.	1. 963.
13	-14. M 2. 1119.	-21. M 1. 1105.	1. 1020.
14	-14. M 3. 1225.	-20. M 1. 1067.	1. 1048.
15	-13. M 3. 1170.	-18. M 1. 945.	1. 960.
16	-12. M 2. 1135.	-18. M 1. 1067.	C 829.
17	-14. M 2. 1093.	-21. M 1. 1018.	C 846.
18	-18. C 860.	-25. C 732.	C 744.
19	-24. C 717.	-29. C 761.	C 883.
20	-32. C 774.	-30. C 704.	C 919.
21	-35. C 819.	-30. C 917.	C 860.
22	-35. C 859.	-30. C 965.	C 870.
23	-34. C 858.	-32. C 841.	C 1036.
24	-32. M 1. 1182.	-35. C 883.	1. 1097.
TOT	22. 995.	22. 1038.	10. 953.
AVE	1. 1225.	1. 1407.	0. 1223.
MAX	3. 717.	0. 701.	2. 744.
MIN	0. -35.	0. -35.	0. -41.

ARCTIC MEDICAL RSCH LAB MARCH 1971

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HOUR	TEMPDIRECT	WIND- WIND SPEED CHILL	TEMPDIRECT	WIND- WIND SPEED CHILL	TEMPDIRECT	WIND- WIND SPEED CHILL
1	-36.	M 1. 1116.	-16.	C R26.	-19.	M 2. 1191.
2	-34.	M 1. 1128.	-18.	C 739.	-20.	M 3. 1285.
3	-34.	C 993.	-16.	C R66.	-18.	M 3. 1220.
4	-35.	C 911.	-15.	C 700.	-19.	M 2. 1119.
5	-33.	C 998.	-14.	1. 932.	-20.	M 1. 928.
6	-32.	M 1. 1084.	-14.	1. 939.	-19.	C 794.
7	-31.	M 1. 1099.	-13.	2. 1055.	-18.	C R80.
8	-28.	M 1. 1014.	-13.	2. 1050.	-14.	C 800.
9	-22.	C 940.	-12.	1. 947.	-13.	C 768.
10	-20.	M 1. 1057.	-11.	1. 964.	-9.	1. R45.
11	-19.	M 1. 1011.	-10.	1. 1009.	-9.	M 2. 1013.
12	-18.	M 1. 1071.	-7.	1. 925.	-8.	M 2. 1027.
13	-12.	M 1. 914.	-6.	1. R74.	-7.	M 2. 1061.
14	-10.	M 1. 900.	-5.	1. R68.	-6.	M 3. 1083.
15	-11.	M 1. 855.	-2.	1. R23.	-5.	M 3. 1105.
16	-12.	M 1. 859.	-5.	1. R27.	-6.	M 4. 1184.
17	-12.	C 837.	-7.	1. R93.	-6.	M 3. 1085.
18	-14.	C 826.	-11.	C R80.	-7.	M 3. 1088.
19	-16.	C 781.	-14.	C R36.	-7.	M 1. 956.
20	-18.	C 690.	-17.	1. R99.	-8.	M 2. 1002.
21	-18.	M 1. 1028.	-15.	C 735.	-8.	M 1. 985.
22	-16.	M 2. 1121.	-15.	1. 1017.	-8.	M 1. 992.
23	-15.	M 2. 1107.	-15.	1. 927.	-9.	M 1. 966.
24	-15.	M 1. 1043.	-17.	1. 964.	-9.	M 1. 999.
TOT		18.		19.		41.
AVE	-21.	1. 983.	-12.	1. 809.	-11.	2. 1016.
MAX	-10.	2. 1128.	-2.	2. 1055.	-5.	4. 1285.
MIN	-36.	0. 781.	-18.	0. 735.	-20.	0. 768.



ARCTIC MEDICAL HSCH I AB MARCH 1971

HOUR	13		14		15	
	TEMP	WIND- WIND DIRECT SPEED CHILL	TEMP	WIND- WIND DIRECT SPEED CHILL	TEMP	WIND- WIND DIRECT SPEED CHILL
1	-9.	M 1. 965.	-20.	C 7.4.	-24.	M 1. 967.
2	-10.	M 1. 1004.	-25.	M 1. 949.	-22.	C 849.
3	-10.	M 1. 1014.	-28.	M 1. 944.	-20.	M 1. 1056.
4	-11.	M 1. 1017.	-27.	C 964.	-19.	M 2. 1149.
5	-11.	M 1. 999.	-27.	C 808.	-18.	M 1. 1045.
6	-11.	M 2. 1046.	-27.	M 1. 1127.	-19.	C 901.
7	-11.	M 1. 974.	-28.	M 1. 1108.	-20.	M 2. 1161.
8	-11.	M 2. 1026.	-23.	M 2. 1140.	-16.	M 1. 1008.
9	-11.	M 2. 1052.	-19.	M 1. 1080.	-15.	M 3. 1180.
10	-9.	M 1. 976.	-14.	M 1. 1018.	-9.	M 3. 1142.
11	-8.	M 1. 944.	-11.	M 1. 954.	-7.	M 2. 1059.
12	-6.	M 1. 907.	-8.	M 1. 951.	-2.	M 2. 959.
13	-5.	M 1. 931.	-9.	M 2. 1074.	2.	M 1. 855.
14	-6.	M 2. 980.	-6.	M 2. 1013.	3.	M 1. 797.
15	-5.	M 1. 916.	-3.	M 1. 875.	6.	M 1. 767.
16	-5.	M 1. 874.	-2.	M 1. 819.	7.	M 1. 712.
17	-6.	M 1. 857.	-5.	M 1. 897.	4.	M 1. 673.
18	-7.	M 1. 917.	-11.	C 840.	-4.	C 707.
19	-8.	M 1. 870.	-17.	C 629.	-7.	M 1. 878.
20	-9.	C 710.	-19.	C 644.	-14.	M 1. 901.
21	-9.	C 813.	-22.	C 656.	-14.	M 1. 879.
22	-11.	M 1. 950.	-24.	C 672.	-16.	C 867.
23	-12.	M 1. 1032.	-26.	C 915.	-14.	M 1. 887.
24	-18.	M 1. 972.	-26.	C 909.	-15.	M 1. 892.
TOT		26.		17.		27.
AVE	-9.	1. 947.	-18.	1. 911.	-11.	1. 929.
MAX	-5.	2. 1052.	-2.	2. 1140.	7.	3. 1180.
MIN	-18.	0. 710.	-28.	0. 629.	-24.	0. 673.

ARCTIC MEDICAL RSCH LAB MARCH 1971

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HOUR	- WIND WIND- WIND		- WIND WIND- WIND		- WIND WIND- WIND						
	TEMPDIRECT	SPEED CHILL	TEMPDIRECT	SPEED CHILL	TEMPDIRECT	SPEED CHILL					
1	-5.	3.	1075.	23.	M	1.	665.	16.	M	2.	773.
2	3.	4.	1104.	17.	M	1.	678.	12.	M	1.	731.
3	6.	6.	1141.	13.	M	1.	736.	9.	M	1.	723.
4	11.	7.	1106.	10.	M	1.	753.	5.	M	1.	770.
5	16.	8.	1086.	7.	M	C	671.	2.	M	1.	787.
6	19.	10.	1091.	6.	M	1.	776.	2.	M	1.	773.
7	20.	9.	1060.	24.	M	4.	802.	5.	C	C	702.
8	23.	10.	1038.	26.	M	4.	797.	12.	M	1.	759.
9	26.	10.	991.	27.	M	3.	754.	20.	M	1.	672.
10	27.	10.	984.	30.	M	1.	593.	24.	M	1.	591.
11	29.	7.	881.	32.	M	1.	578.	26.	M	1.	635.
12	32.	8.	855.	33.	M	C	450.	29.	M	1.	596.
13	32.	8.	856.	35.	M	1.	534.	32.	M	1.	542.
14	33.	7.	801.	37.	M	1.	537.	33.	M	1.	577.
15	32.	7.	823.	36.	M	1.	469.	34.	M	1.	496.
16	31.	7.	833.	35.	M	1.	531.	36.	M	1.	542.
17	32.	6.	799.	33.	M	C	389.	33.	M	C	457.
18	32.	7.	828.	28.	M	1.	524.	25.	C	C	547.
19	31.	6.	811.	26.	M	1.	571.	17.	M	1.	673.
20	32.	7.	828.	27.	M	C	493.	12.	M	1.	678.
21	29.	3.	718.	25.	C	C	535.	14.	M	1.	728.
22	29.	1.	585.	20.	M	1.	707.	12.	M	1.	706.
23	28.	3.	704.	16.	M	1.	726.	8.	C	C	668.
24	26.	2.	710.	16.	M	1.	713.	3.	C	C	698.
TOT		156.		27.						20.	
AVE	24.	6.	904.	24.				18.		1.	659.
MAX	33.	10.	1141.	37.				36.		2.	787.
MIN	-5.	1.	585.	6.				2.		0.	457.

NOT REPRODUCIBLE

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HOUR	- WIND WIND- WIND		- WIND WIND- WIND		- WIND WIND- WIND	
	TEMPDIRECT	SPEED CHILL	TEMPDIRECT	SPEED CHILL	TEMPDIRECT	SPEED CHILL
1	0.	747.	3.	645.	9.	760.
2	1.	665.	1.	643.	5.	804.
3	-2.	710.	0.	828.	0.	804.
4	-4.	723.	0.	808.	-3.	823.
5	-4.	780.	0.	746.	-5.	869.
6	-6.	891.	-2.	643.	-8.	827.
7	-1.	796.	0.	740.	-3.	834.
8	7.	675.	4.	749.	5.	734.
9	12.	722.	10.	740.	15.	700.
10	17.	698.	19.	607.	16.	821.
11	22.	653.	26.	644.	17.	765.
12	26.	637.	31.	564.	21.	700.
13	31.	652.	36.	525.	24.	701.
14	35.	544.	37.	542.	25.	701.
15	36.	487.	38.	426.	27.	639.
16	33.	557.	36.	642.	24.	603.
17	31.	560.	34.	726.	27.	542.
18	24.	543.	30.	745.	19.	618.
19	18.	667.	22.	819.	12.	661.
20	13.	666.	16.	867.	10.	572.
21	13.	726.	16.	702.	12.	816.
22	11.	707.	10.	677.	11.	788.
23	10.	684.	6.	641.	11.	727.
24	9.	634.	7.	772.	10.	815.
TOT	17.	672.	16.	642.	28.	735.
AVE	14.	891.	38.	867.	1.	869.
MAX	36.	487.	-2.	426.	2.	542.
MIN	-6.				0.	

ARCTIC MEDICAL RSCH LAB MARCH 1971

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HOUR	- WIND WIND- WIND		- WIND WIND- WIND		- WIND WIND- WIND	
	TEMP	SPEED	TEMP	SPEED	TEMP	SPEED
1	11.	5.	14.	7.	18.	8.
2	8.	5.	15.	9.	17.	8.
3	8.	6.	15.	8.	16.	7.
4	7.	6.	12.	6.	16.	8.
5	4.	5.	11.	6.	15.	8.
6	5.	4.	9.	4.	15.	7.
7	8.	5.	8.	6.	16.	7.
8	11.	5.	17.	9.	18.	6.
9	16.	7.	19.	9.	20.	9.
10	20.	6.	22.	8.	22.	10.
11	25.	6.	23.	10.	25.	10.
12	28.	7.	25.	10.	26.	13.
13	29.	9.	26.	10.	27.	14.
14	27.	10.	25.	10.	27.	10.
15	26.	10.	26.	9.	26.	10.
16	25.	9.	24.	10.	25.	10.
17	23.	9.	23.	9.	24.	8.
18	20.	10.	21.	9.	22.	7.
19	18.	9.	20.	8.	19.	5.
20	17.	9.	19.	9.	18.	4.
21	17.	7.	19.	9.	16.	5.
22	17.	9.	19.	8.	15.	6.
23	16.	8.	19.	8.	15.	5.
24	15.	6.	19.	8.	15.	4.
TOT	172.	172.	199.	199.	189.	189.
AVE	17.	7.	8.	8.	8.	8.
MAX	29.	10.	26.	10.	27.	14.
MIN	4.	4.	8.	4.	15.	4.

1053.
1080.
1060.
1097.
1087.
1082.
1058.
1005.
1036.
1050.
1003.
1053.
1044.
968.
991.
995.
954.
963.
938.
926.
944.
999.
998.
960.
1014.
1097.
926.
1041.
1116.
975.
1032.
1145.
877.

ARCTIC MEDICAL RSCH LAB MARCH 1971

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HOUR	TEMP	WIND	WIND- SPEED	WIND CHILL	TEMP	WIND	WIND- SPEED	WIND CHILL	TEMP	WIND	WIND- SPEED	WIND CHILL
1	8.	M	3.	985.	0.	M	5.	1048.	-3.	M	1.	900.
2	8.	M	6.	1099.	0.	M	3.	1053.	-4.	M	2.	1030.
3	7.	M	5.	1109.	0.	M	3.	1047.	-4.	M	2.	1021.
4	4.	M	3.	1037.	0.	M	4.	1100.	-2.	M	3.	1073.
5	3.	M	2.	936.	0.	M	4.	1102.	-2.	M	3.	1055.
6	0.	M	2.	997.	-2.	M	3.	1035.	-1.	M	3.	1019.
7	4.	M	3.	976.	4.	M	4.	1047.	3.	M	3.	1039.
8	6.	M	2.	935.	8.	M	4.	1041.	6.	M	5.	1087.
9	15.	M	3.	870.	14.	M	8.	1117.	10.	M	5.	1028.
10	20.	M	5.	907.	15.	M	9.	1128.	14.	M	6.	1042.
11	25.	M	7.	910.	18.	M	8.	1067.	17.	M	6.	998.
12	26.	M	7.	907.	18.	M	8.	1045.	19.	M	6.	969.
13	28.	M	9.	932.	19.	M	8.	1023.	20.	M	7.	980.
14	28.	M	8.	910.	19.	M	8.	1025.	21.	M	6.	943.
15	28.	M	8.	906.	18.	M	8.	1040.	21.	M	6.	958.
16	27.	M	7.	908.	16.	M	9.	1104.	19.	M	7.	990.
17	25.	M	6.	900.	14.	M	7.	1068.	18.	M	6.	1008.
18	20.	M	8.	1019.	11.	M	5.	1023.	15.	M	5.	994.
19	16.	M	7.	1039.	9.	M	4.	907.	11.	M	3.	940.
20	14.	M	5.	1015.	7.	M	3.	983.	5.	M	2.	946.
21	10.	M	3.	934.	7.	M	4.	1019.	3.	M	5.	1127.
22	4.	M	3.	977.	6.	M	2.	940.	5.	M	5.	1131.
23	4.	M	2.	953.	4.	M	1.	739.	2.	M	4.	1112.
24	3.	M	2.	947.	0.	M	1.	715.	4.	M	5.	1125.
TOT	116.		116.				120.		8.		106.	
AVE	14.		5.	963.	9.		5.	1023.	21.		4.	1021.
MAX	28.		9.	1104.	19.		9.	1128.	-4.		7.	1131.
MIN	0.		2.	870.	-2.		0.	715.			1.	900.

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HOUR	TEMPDIRECT	WIND	WIND- SPEED	WIND CHILL	TEMPDIRECT	WIND	WIND- SPEED	WIND CHILL	TEMPDIRECT	WIND	WIND- SPEED	WIND CHILL
1	4.	M	5.	1140.	0.	C	728.	-4.	-4.	M	C	772.
2	5.	M	4.	1076.	-2.	1.	918.	-5.	-5.	M	1.	838.
3	4.	M	4.	1077.	0.	1.	759.	-6.	-6.	M	1.	822.
4	4.	M	4.	1050.	-6.	C	743.	-6.	-6.	M	1.	827.
5	3.	M	2.	949.	-8.	C	751.	-9.	-9.	C	C	788.
6	0.		C	716.	-8.	1.	877.	-9.	-9.	C	C	724.
7	1.		C	696.	-3.	1.	883.	-4.	-4.	C	C	763.
8	7.	M	2.	905.	9.	3.	919.	4.	4.	C	C	713.
9	13.	M	4.	956.	12.	3.	894.	9.	9.	M	1.	713.
10	16.	M	4.	942.	12.	2.	832.	13.	13.	M	2.	805.
11	18.	M	5.	948.	20.	2.	746.	17.	17.	M	1.	693.
12	22.	M	6.	929.	24.	1.	660.	21.	21.	M	1.	671.
13	25.	M	7.	925.	27.	1.	634.	24.	24.	M	2.	701.
14	26.	M	7.	901.	29.	1.	600.	26.	26.	M	2.	672.
15	25.	M	6.	900.	31.	1.	588.	26.	26.	M	2.	675.
16	24.	M	6.	898.	31.	1.	528.	27.	27.	M	1.	623.
17	23.	M	5.	889.	28.	2.	660.	26.	26.	M	1.	645.
18	20.	M	5.	910.	26.	1.	548.	22.	22.	C	C	557.
19	16.	M	3.	849.	19.	1.	651.	16.	16.	C	C	541.
20	11.	M	2.	858.	11.	C	669.	8.	8.	C	C	595.
21	10.	M	2.	901.	9.	1.	723.	2.	2.	M	1.	757.
22	9.	M	3.	967.	5.	C	679.	1.	1.	M	1.	754.
23	7.	M	3.	969.	2.	1.	787.	-2.	-2.	C	C	763.
24	4.	M	1.	772.	-1.	1.	808.	-3.	-3.	M	1.	876.
TOT			90.			26.					19.	
AVE	12.		4.	922.	11.	1.	733.	8.	8.		1.	720.
MAX	26.		7.	1140.	31.	3.	919.	27.	27.		2.	876.
MIN	0.		0.	696.	-8.	0.	528.	-9.	-9.		0.	541.

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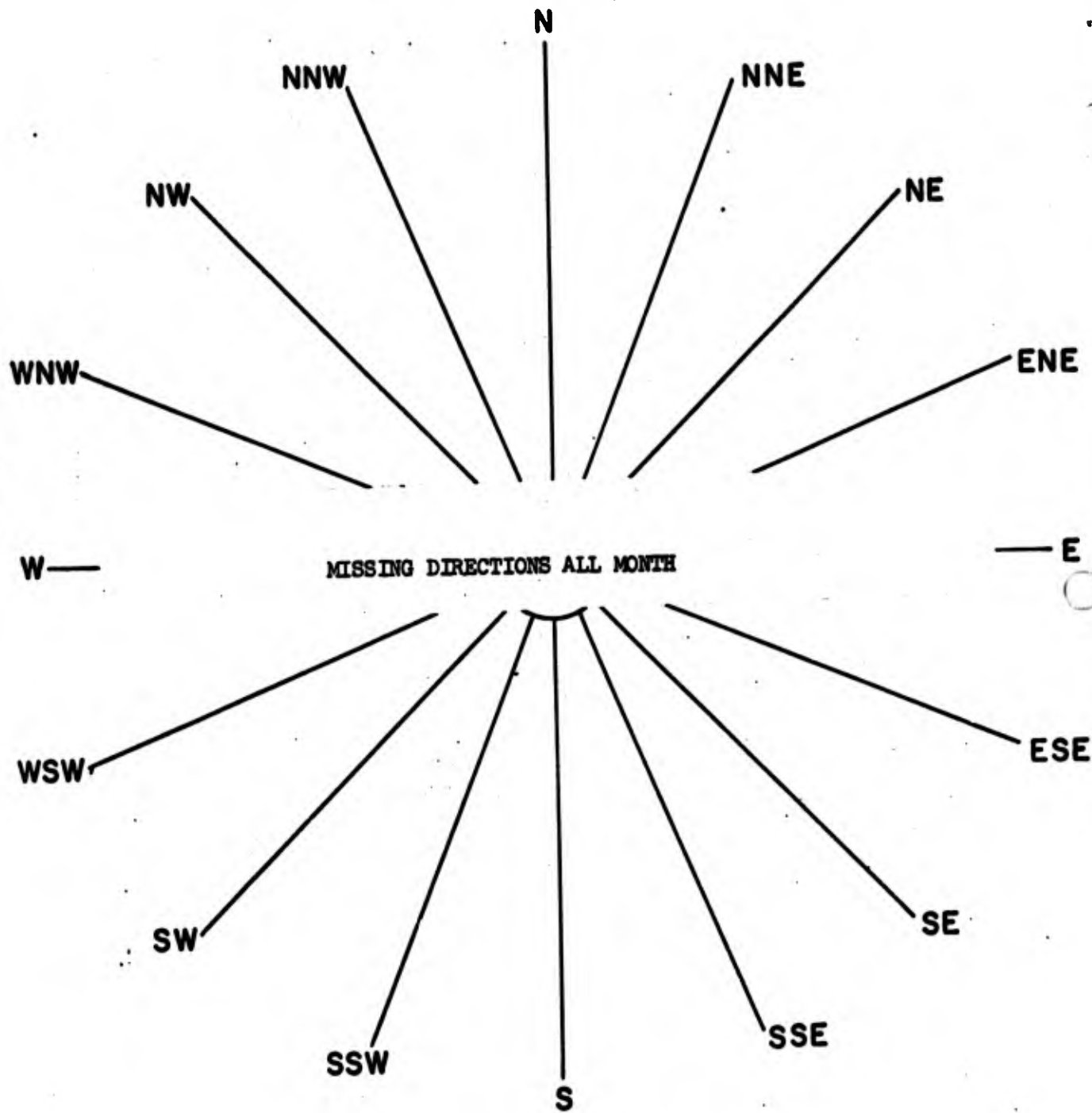
HOUR	TEMP	DIRECT	WIND SPEED	WIND CHILL
1	-5.		C	762.
2	-7.		C	799.
3	-8.	M	1.	874.
4	-9.		C	807.
5	-10.		C	823.
6	-5.	M	1.	849.
7	-3.		C	765.
8	2.	M	1.	837.
9	10.	M	1.	726.
10	13.	M	2.	793.
11	17.	M	1.	727.
12	18.	M	2.	778.
13	19.	M	2.	739.
14	23.	M	2.	716.
15	21.	M	2.	745.
16	22.	M	2.	696.
17	22.	M	4.	847.
18	17.	M	6.	991.
19	13.	M	2.	849.
20	12.	M	2.	868.
21	9.	M	1.	771.
22	6.	M	1.	759.
23	5.	M	1.	794.
24	4.		C	715.
TOT			34.	
AVE	8.		1.	793.
MAX	23.		6.	991.
MIN	-10.		0.	696.

W I N D R O S E  
ARCTIC MEDICAL RSCH LAB MARCH 1971

DIR	HOURLY OBSERVATIONS OF WIND SPEEDS												TOT	AVG SPD	
	1--3	4--7	8--12	13--18	19--24	25--31	32--38	39--46	OVER 46						
N	FREQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PCT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNE	FREQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PCT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NE	FREQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PCT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ENE	FREQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PCT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
E	FREQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PCT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ESE	FREQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PCT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SE	FREQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PCT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSE	FREQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PCT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	FREQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PCT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSW	FREQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PCT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SW	FREQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PCT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WSW	FREQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PCT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
W	FREQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PCT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WNW	FREQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PCT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NW	FREQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PCT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNW	FREQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PCT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOT	FREQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PCT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
CALM FREQ	16.8														
	PCT	100.00													
MISSING DIRECTIONS ALL VALUES												MISSING FREQ	***	PCT	77.42



# WIND ROSE



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\_\_\_\_\_ % OF DATA MISSING

LEGEND: EACH BLIP EQUALS ONE PERCENT OF DIRECTION FREQUENCY.

1 TO 12 MPH      ○○○○○○○○○  
13 TO 31 MPH    ○○○○○○○○○  
32 AND OVER     ○○○○○○○○○

ARCTIC MEDICAL RSCH LAB MARCH 1971  
HOURLY AVERAGES FOR THE MONTH

-- WIND WIND-- WIND

HOUR TEMPIRECT SPEED CHILL

1	-8.	2.	940.
2	-9.	2.	978.
3	-10.	2.	993.
4	-10.	2.	965.
5	-11.	2.	942.
6	-11.	2.	947.
7	-9.	2.	974.
8	-5.	2.	960.
9	-2.	3.	970.
10	1.	3.	962.
11	4.	3.	932.
12	6.	3.	913.
13	8.	4.	916.
14	9.	3.	904.
15	9.	3.	873.
16	9.	3.	873.
17	7.	3.	858.
18	4.	3.	856.
19	0.	2.	845.
20	-3.	2.	854.
21	-4.	2.	869.
22	-5.	2.	888.
23	-6.	2.	886.
24	-7.	2.	924.

ARCTIC MEDICAL RSCH LAB MARCH 1971  
MONTHLY CLIMATOLOGICAL SUMMARY

WIND WIND- WIND  
TEMP DIRECT SPEED CHILL

AVE	-2.	2.	918.
AVMAX	10.	M 14.	1102.
AVMIN	-14.		711.

AVE MAX WIND SPEED AND DIRECTION IS ACTUAL MAXIMUM SPEED AND CONCURRENT DIRECTION  
THE MAXIMUM SPEED OCCURRED 1. TIME