

Appendix B

2004 Wind Climatology

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This appendix provides the 2004 station-specific wind roses (Figures B.1[a] and B.2[a]) from the Hanford Meteorological Monitoring Network. Each petal of the wind rose represents the proportional amount of time that the wind blew from that direction. The width of the petal corresponds to each wind speed category. Starting from the center of the rose, the narrowest petal represents winds in the 1- to 3-miles per hour (mph) class, the next widest represents the 4- to 7-mph class, and so forth. The length of each of these petals is proportional to the frequency of occurrence for each speed class.

The wind speed histograms (Figures B.1[b] and B.2[b]) represent the proportional amount of time in each speed class.

Table B.1 lists joint frequency distributions (at 30 feet) of wind direction versus wind speed class for the individual stations (see Figure 2.1 in text for locations). Table B.2 lists joint frequency distributions (at 60 meters) for stations 9, 11, 13, and 21 (see Figure 2.2 in text for locations).

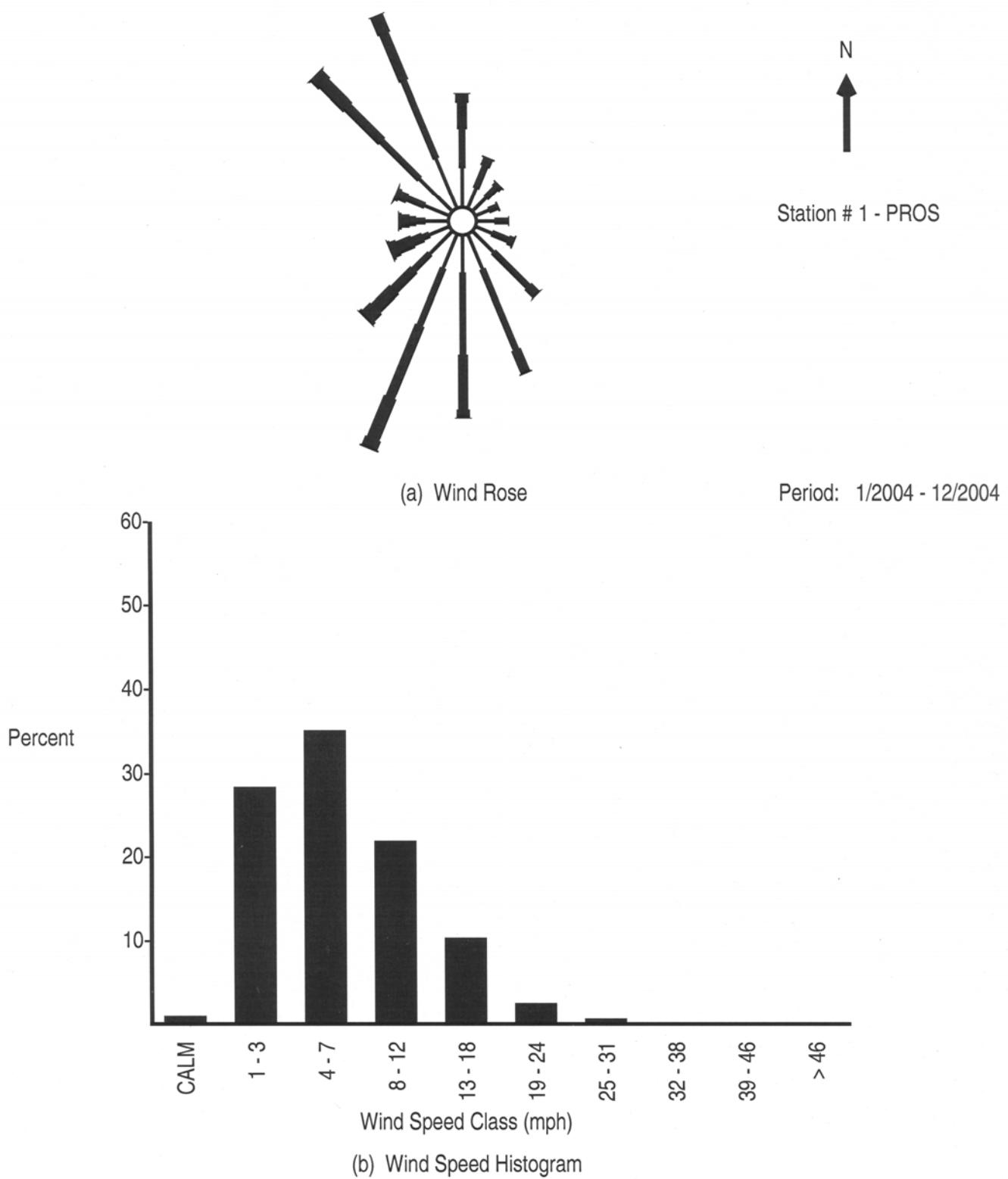


Figure B.1. Wind Rose and Wind Speed Histogram, 30 Feet

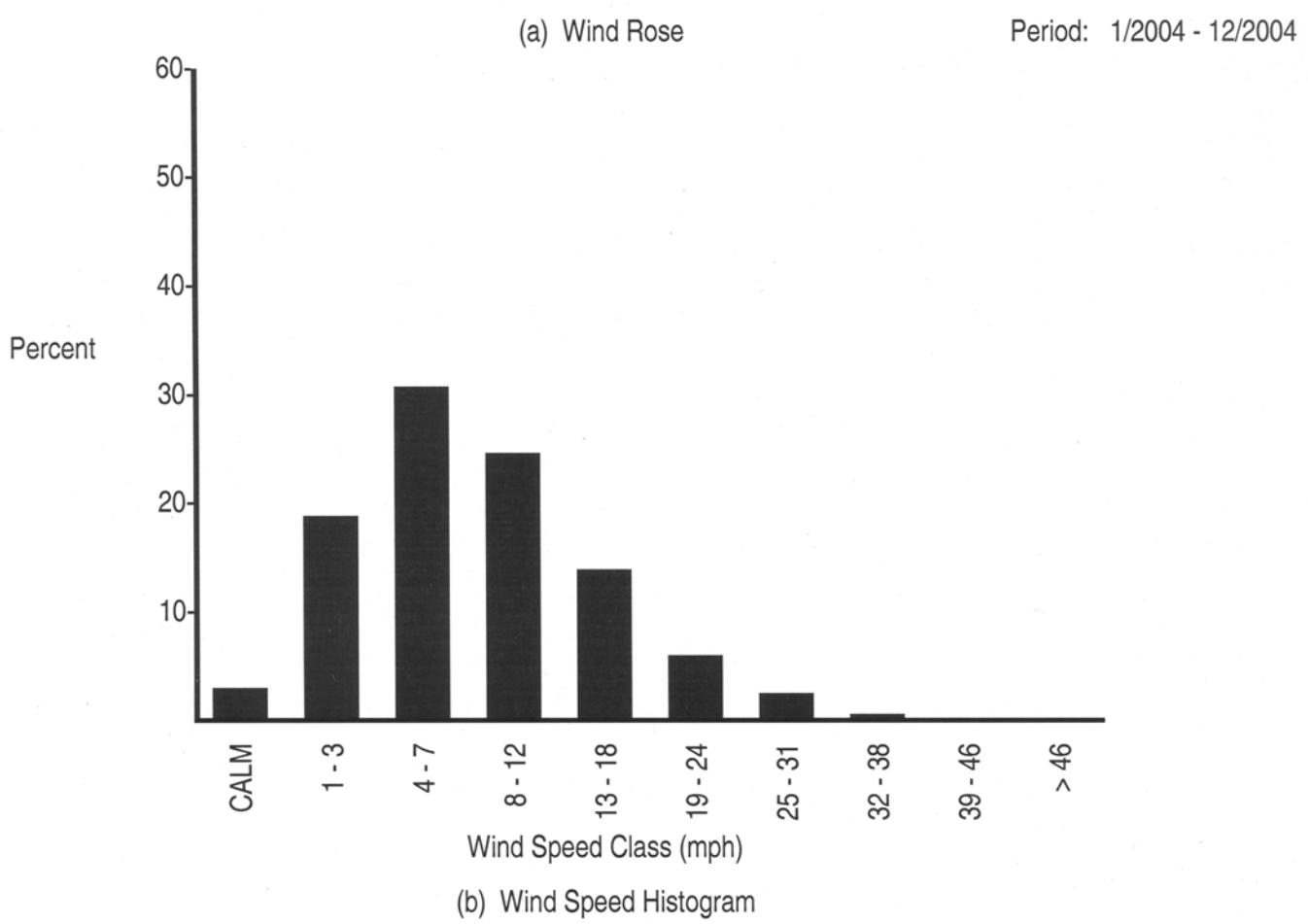
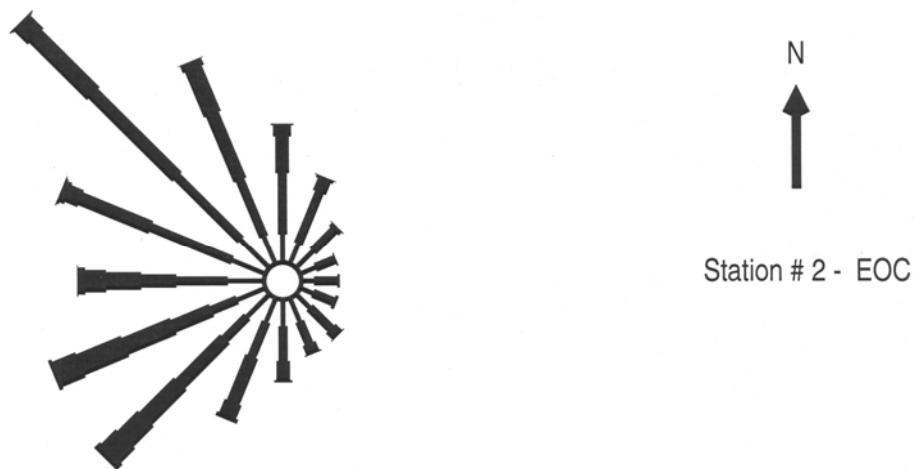


Figure B.1. (contd)

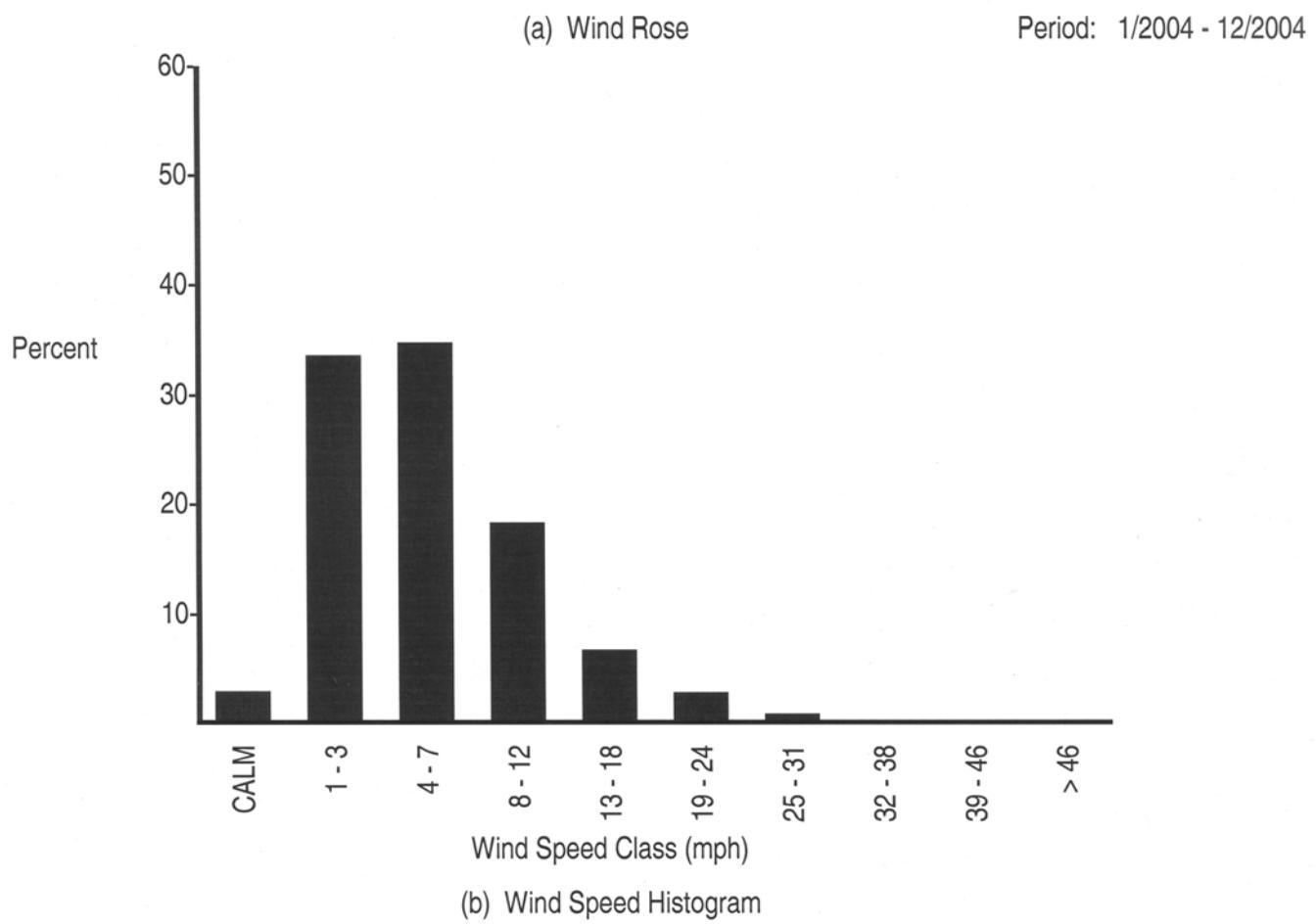
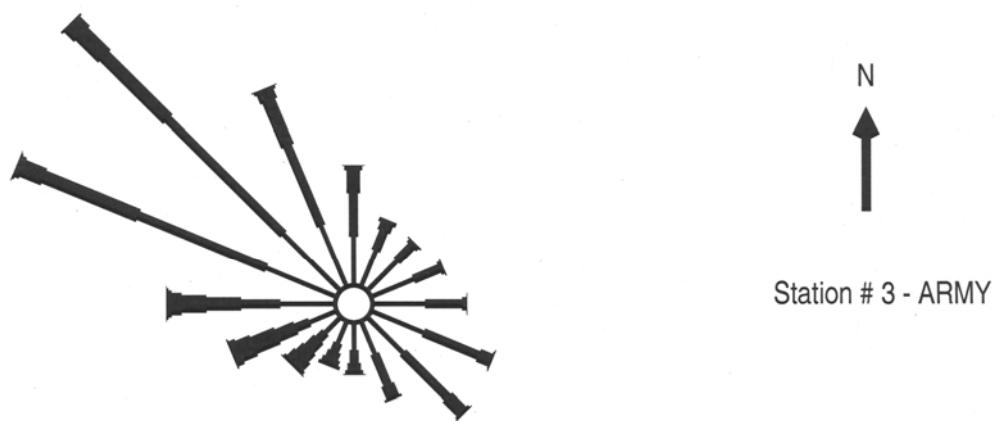


Figure B.1. (contd)

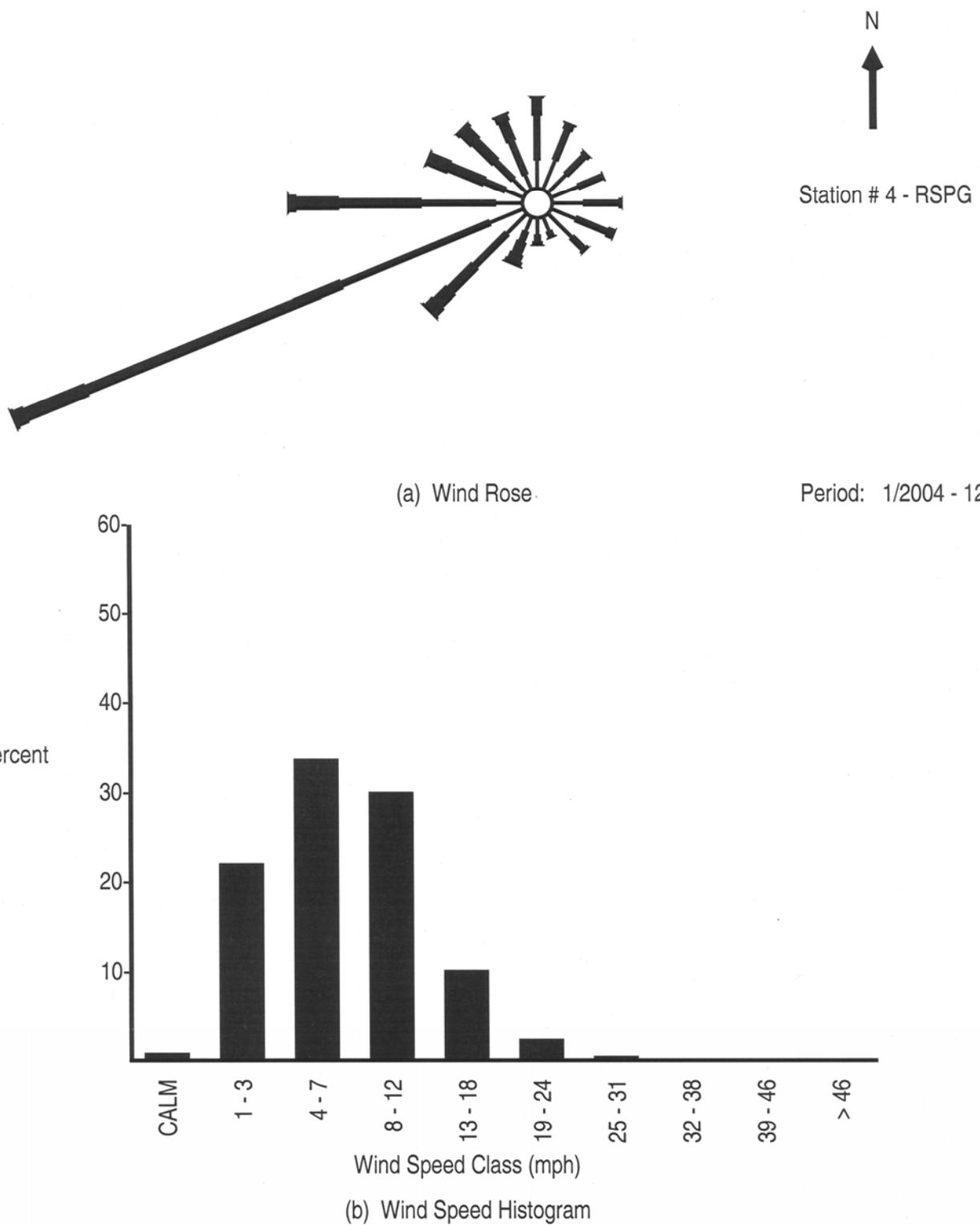


Figure B.1. (contd)

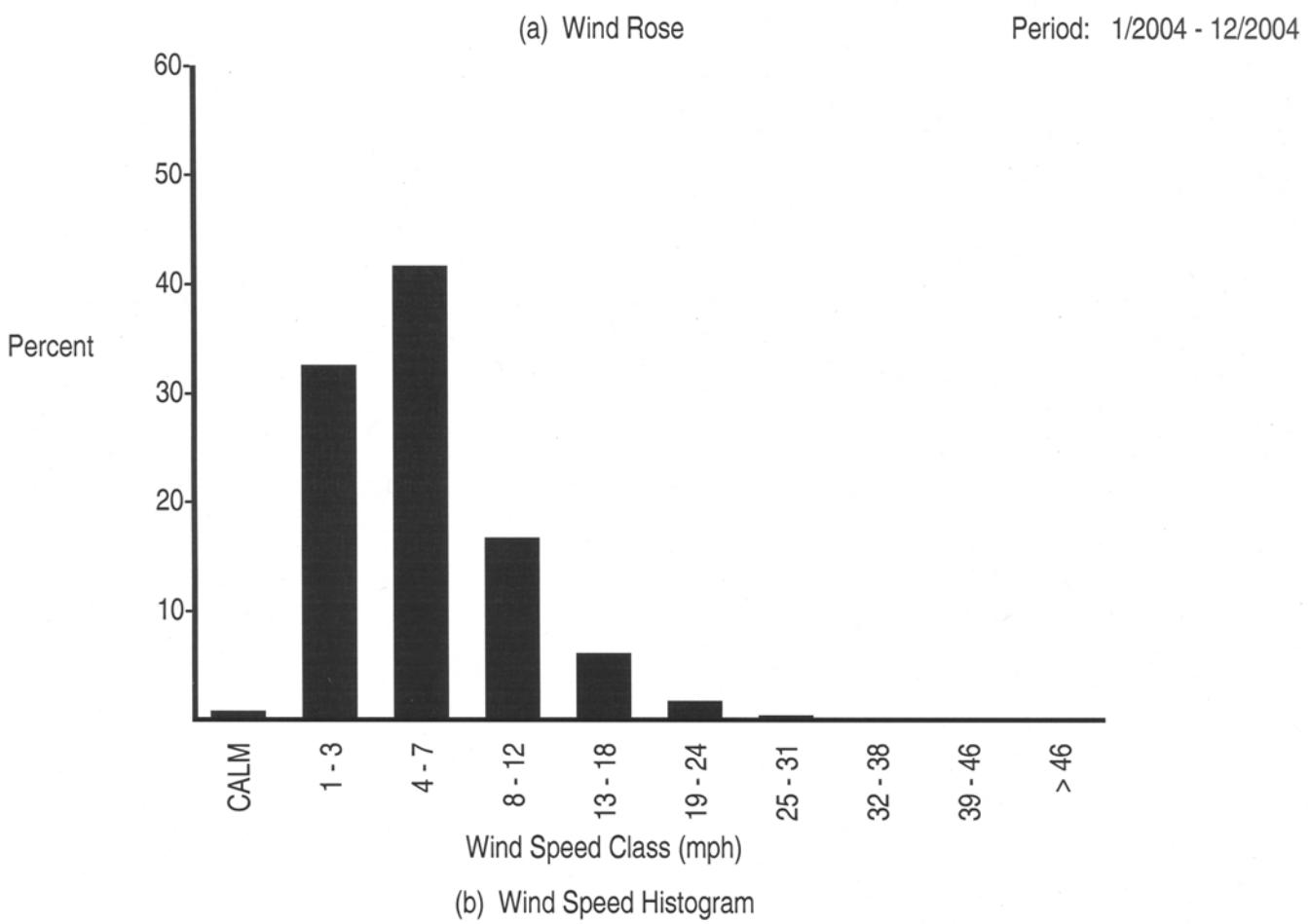
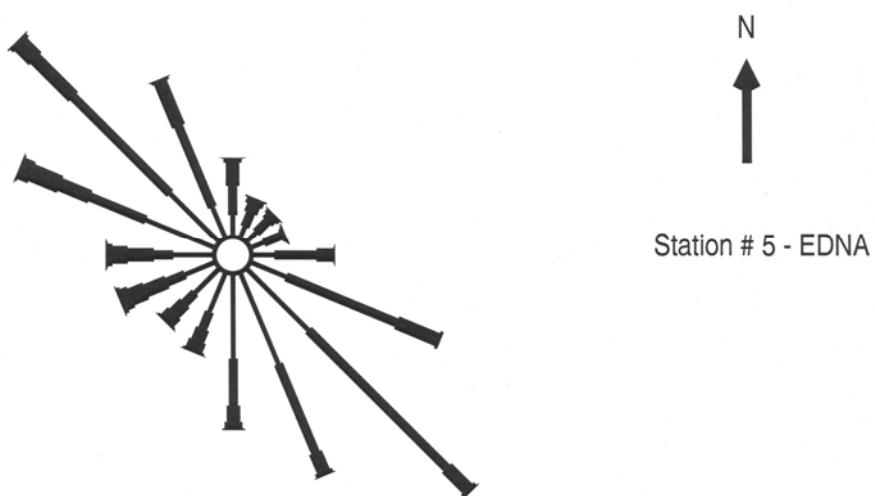


Figure B.1. (contd)

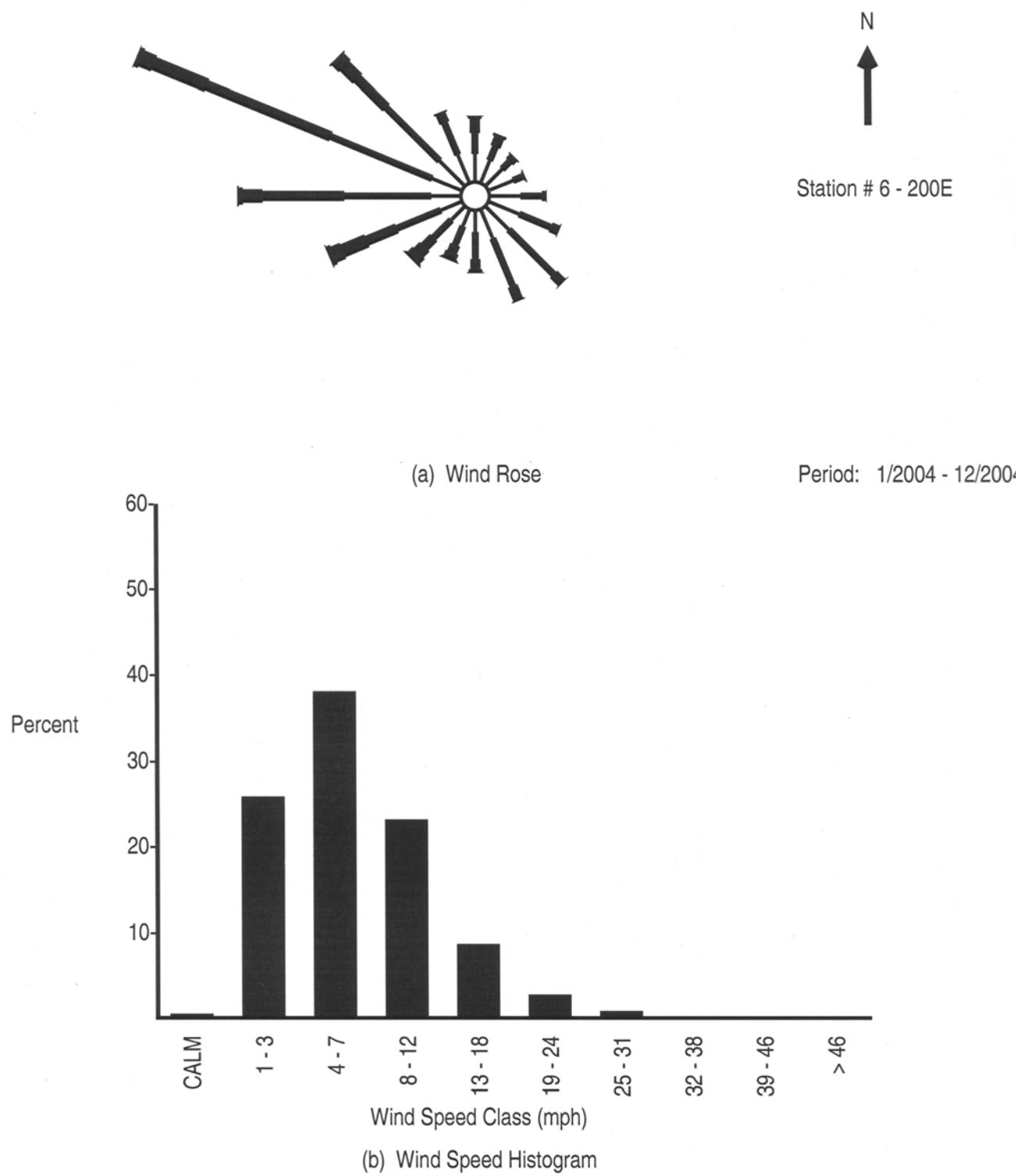


Figure B.1. (contd)

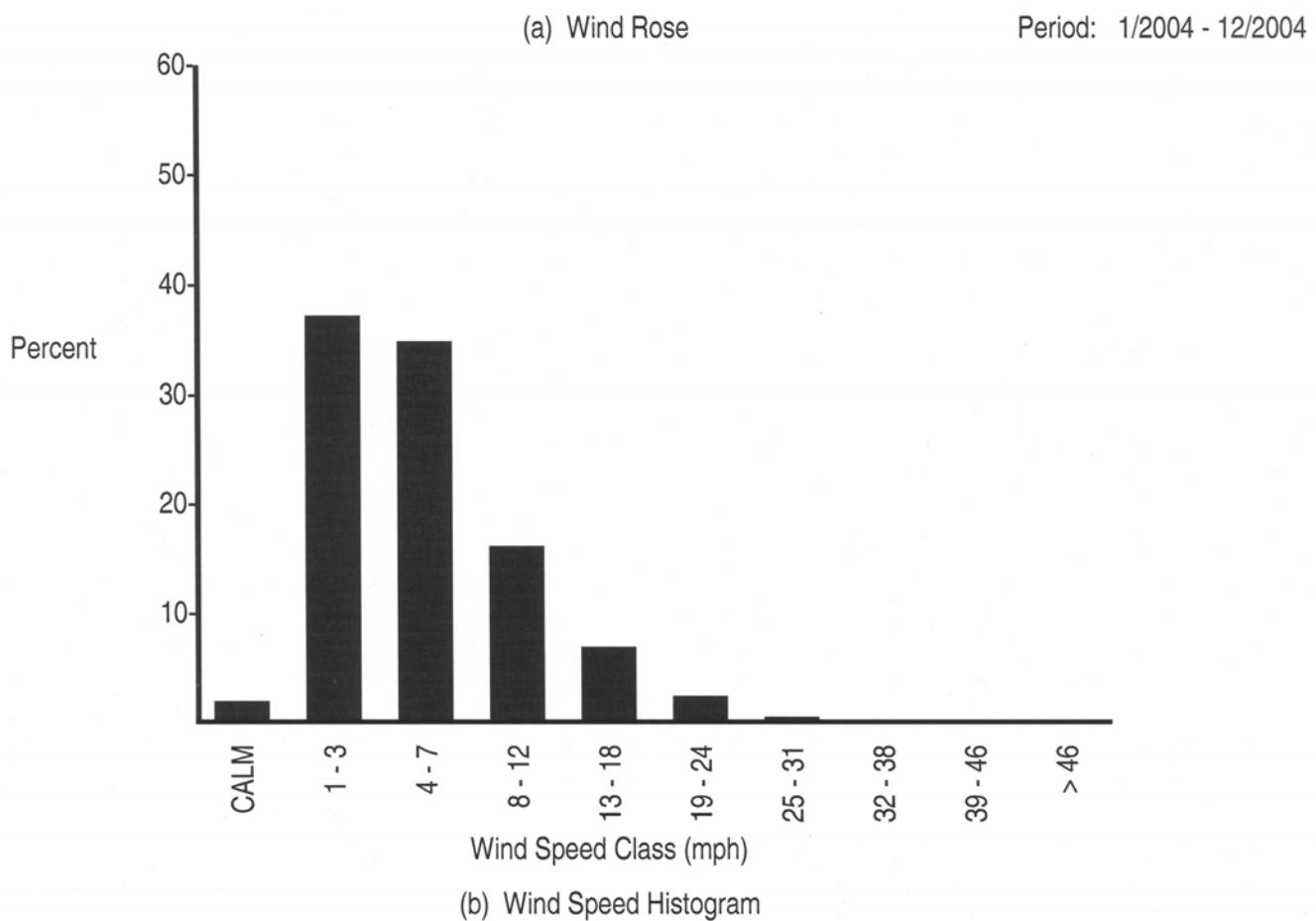
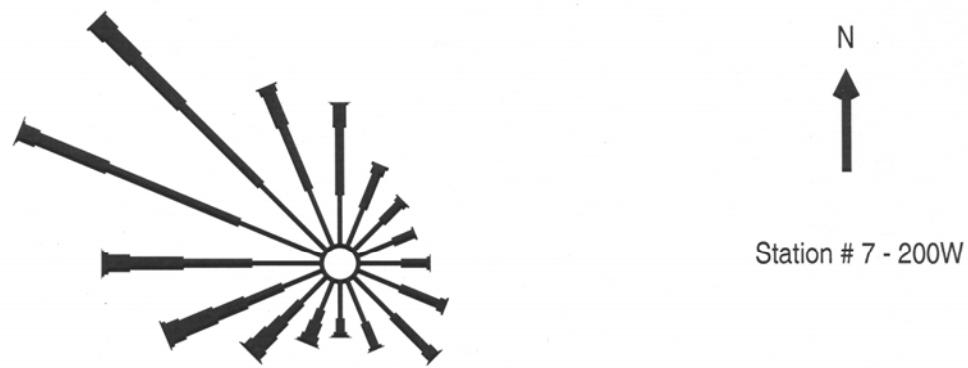


Figure B.1. (contd)

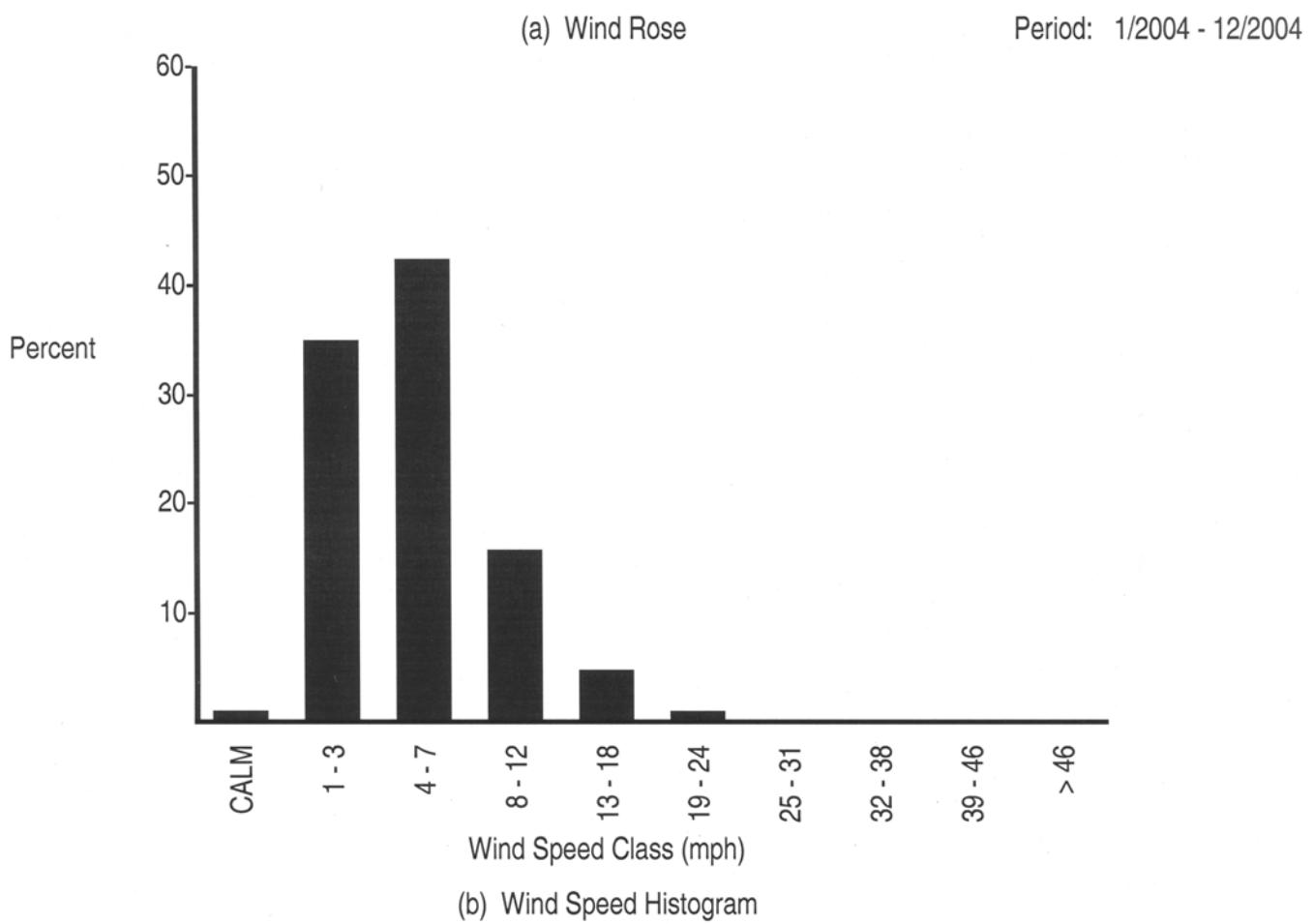
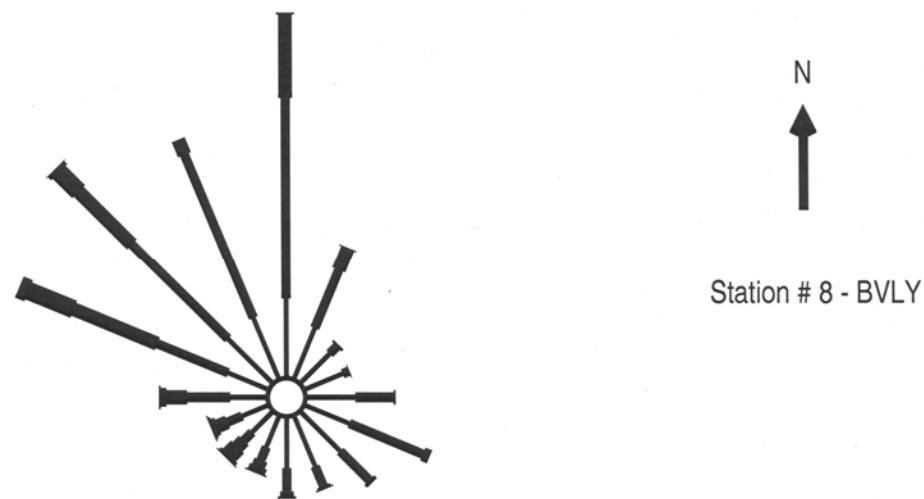
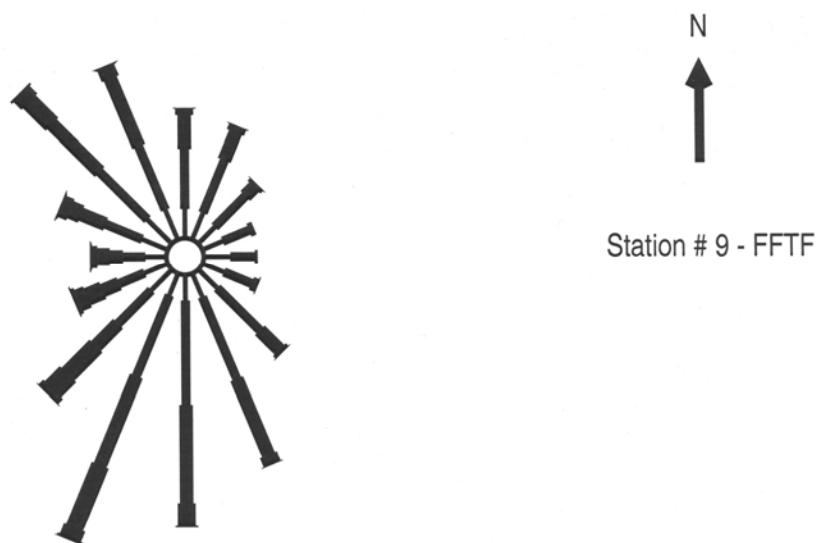


Figure B.1. (contd)



Station # 9 - FFTF

Period: 1/2004 - 12/2004

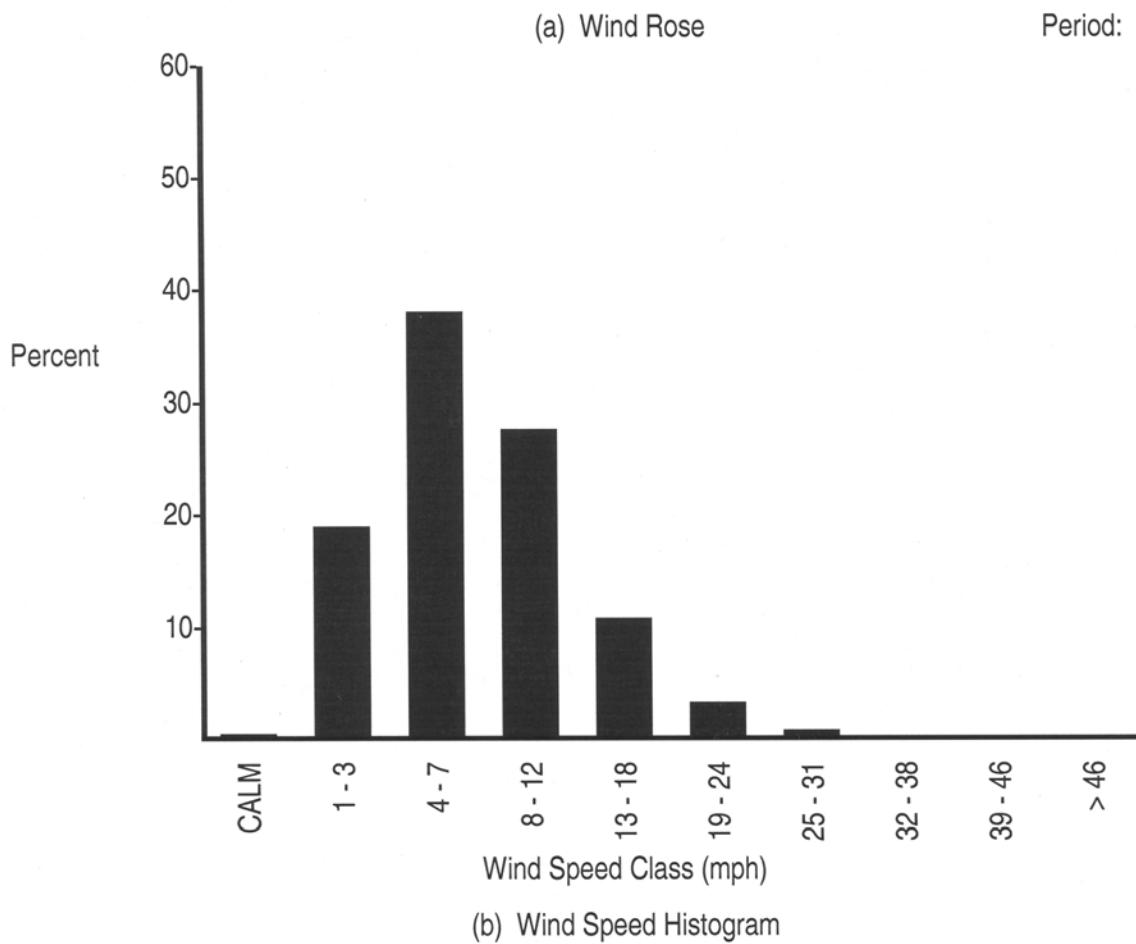


Figure B.1. (contd)

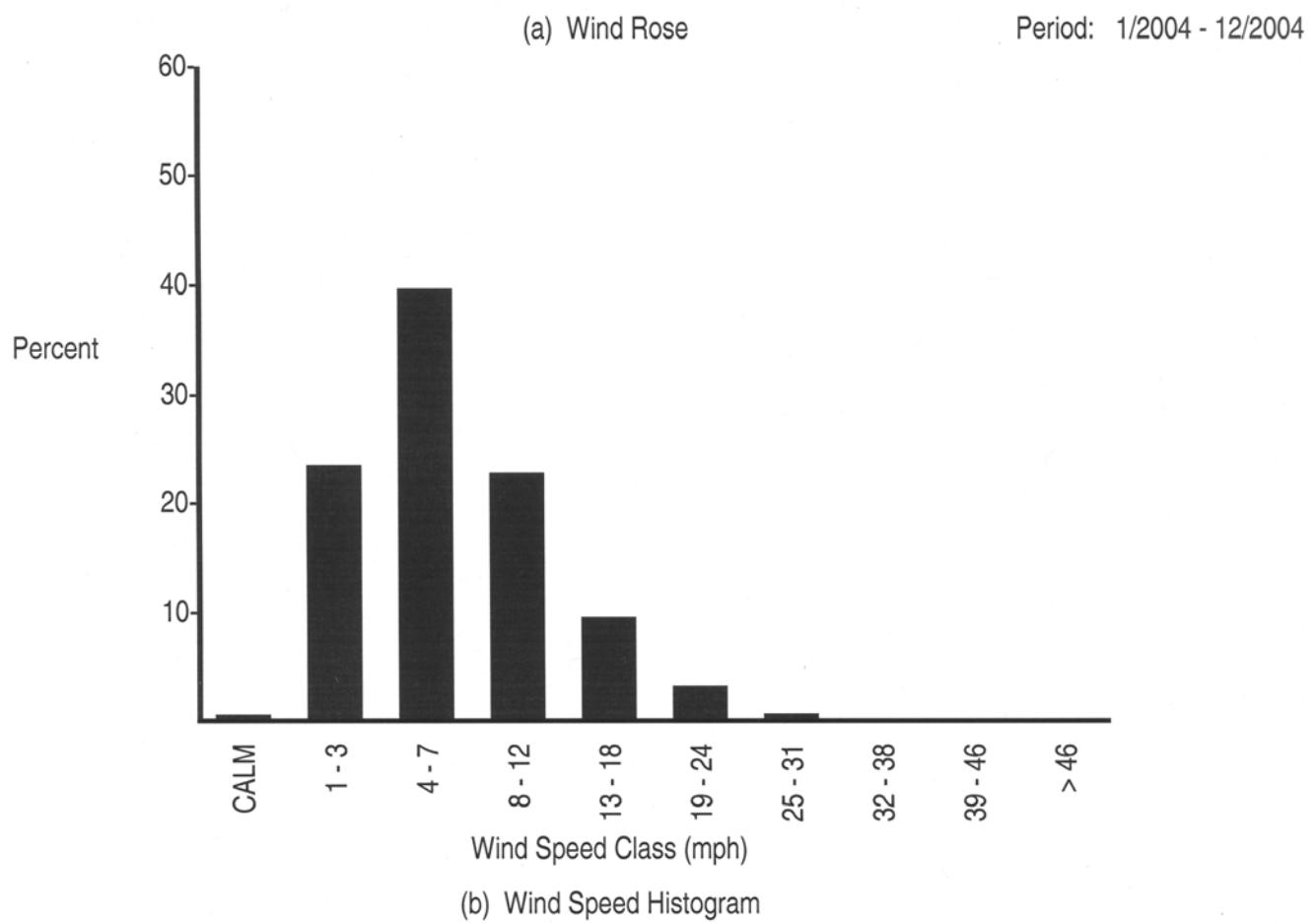
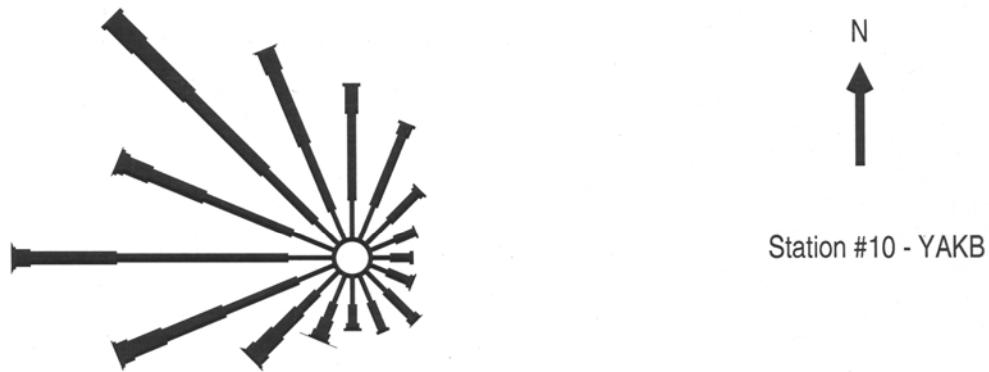


Figure B.1. (contd)

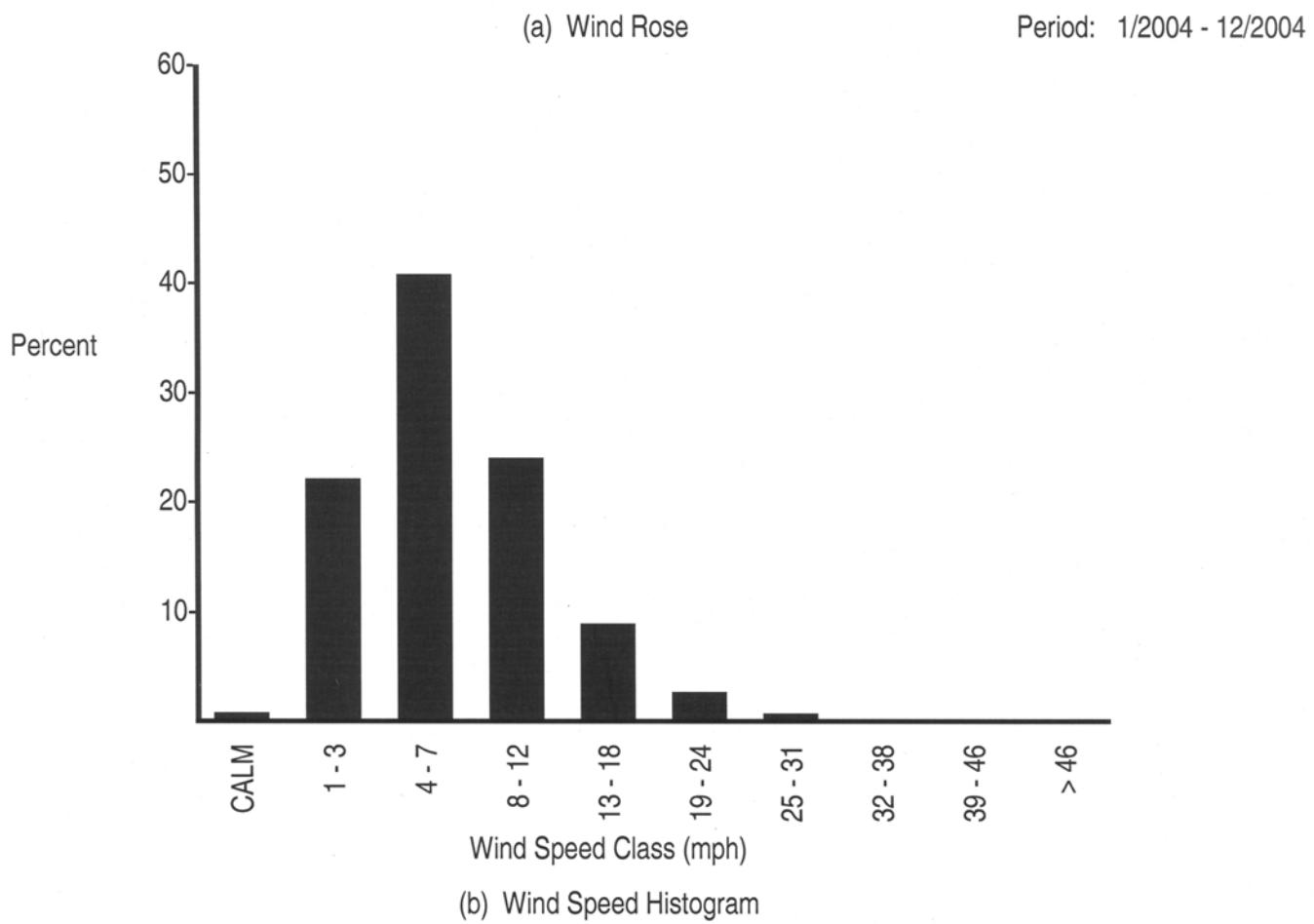
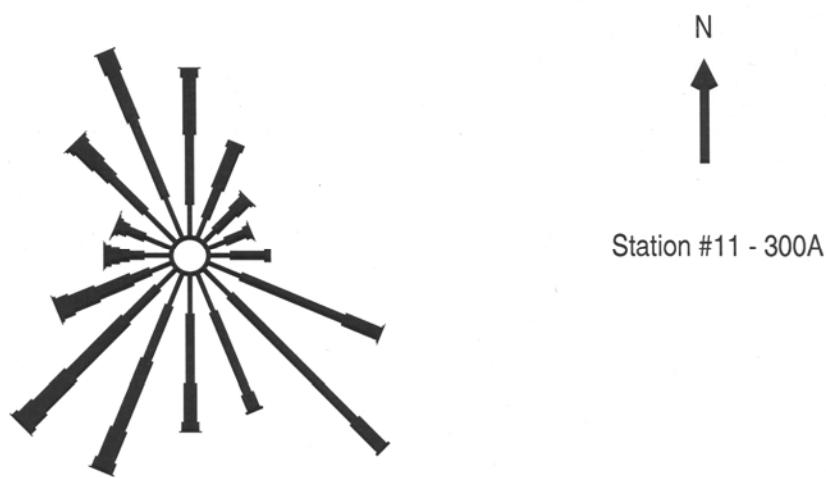
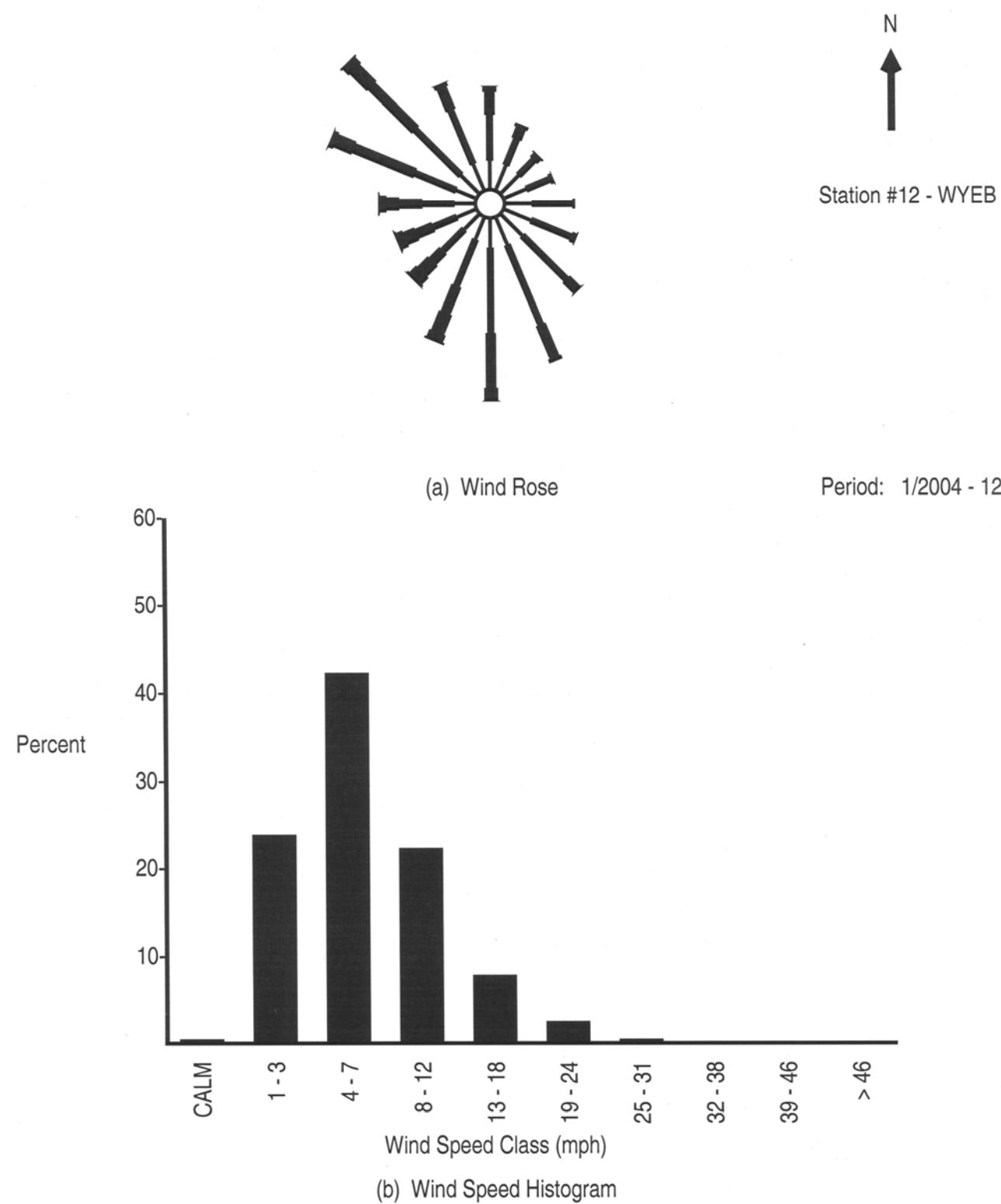


Figure B.1. (contd)

**Figure B.1. (contd)**

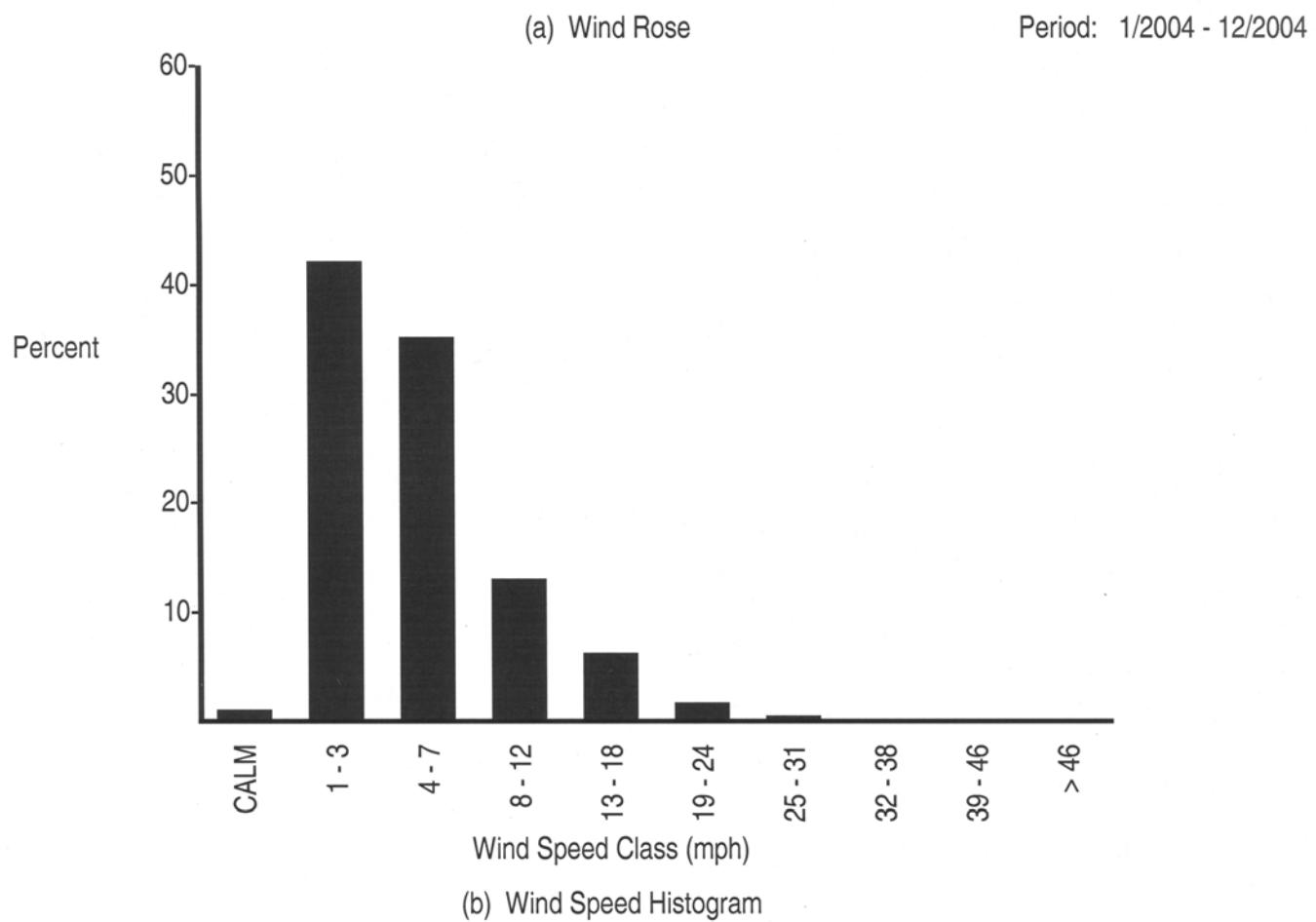
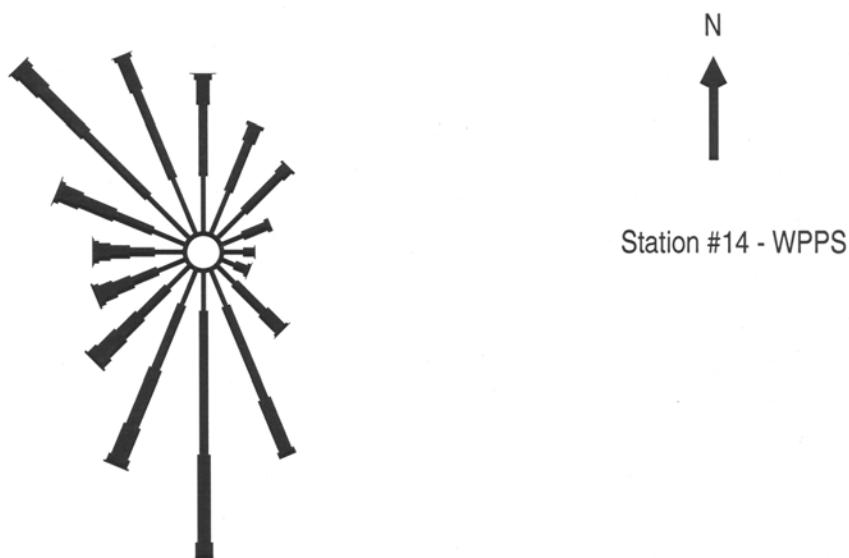
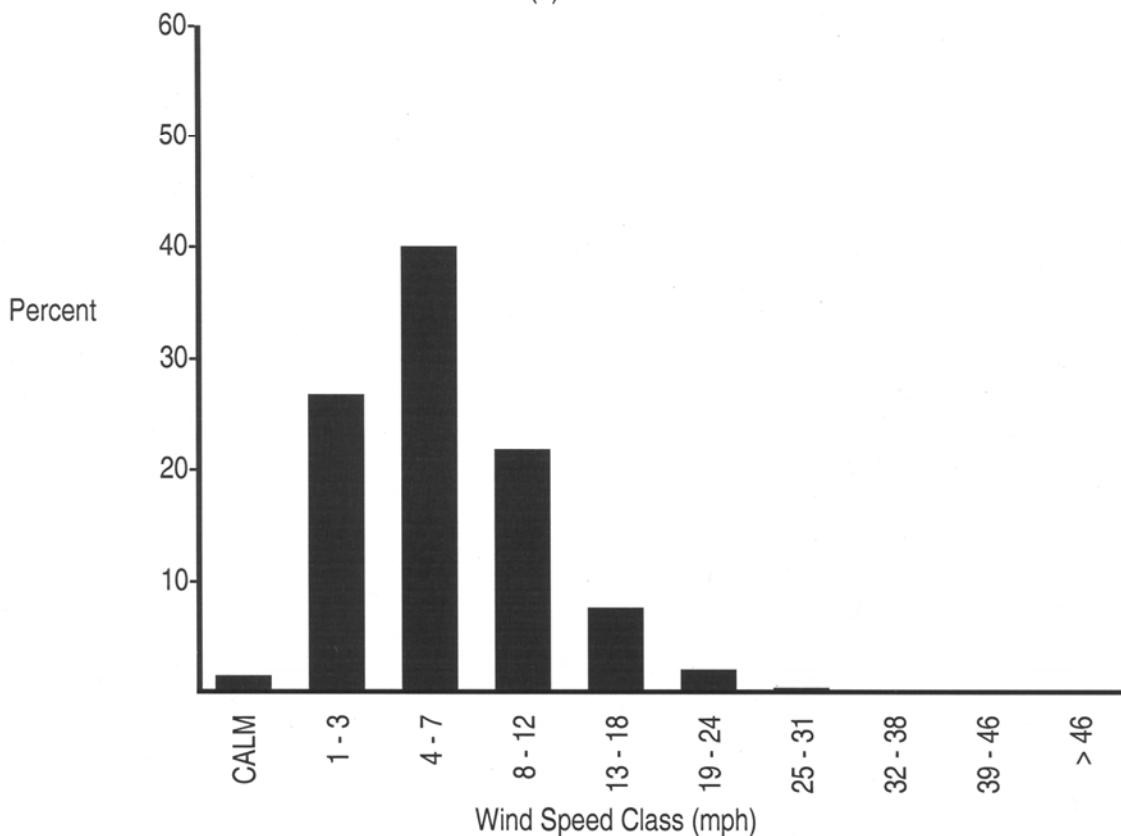


Figure B.1. (contd)



(a) Wind Rose

Period: 1/2004 - 12/2004



(b) Wind Speed Histogram

Figure B.1. (contd)

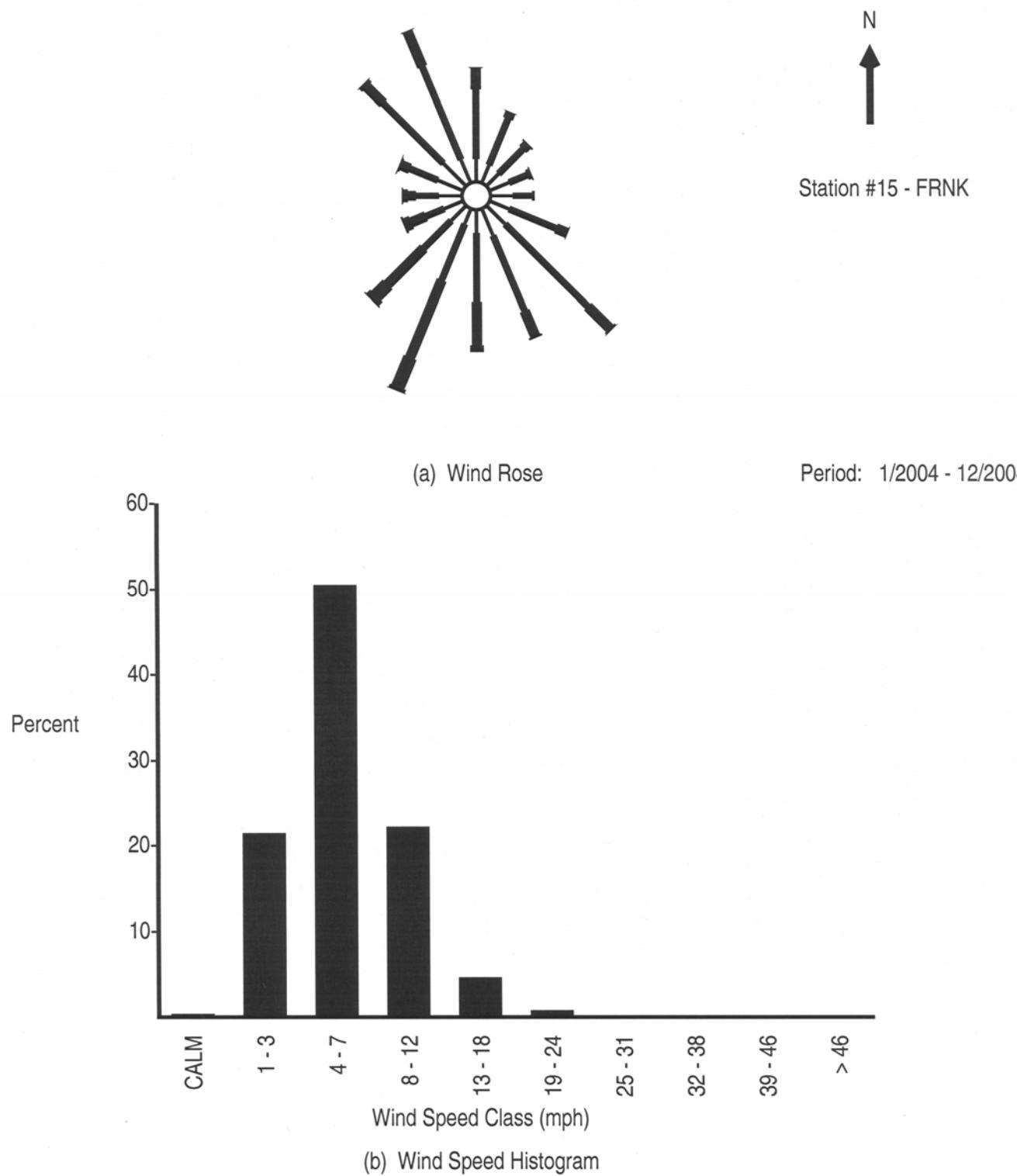


Figure B.1. (contd)

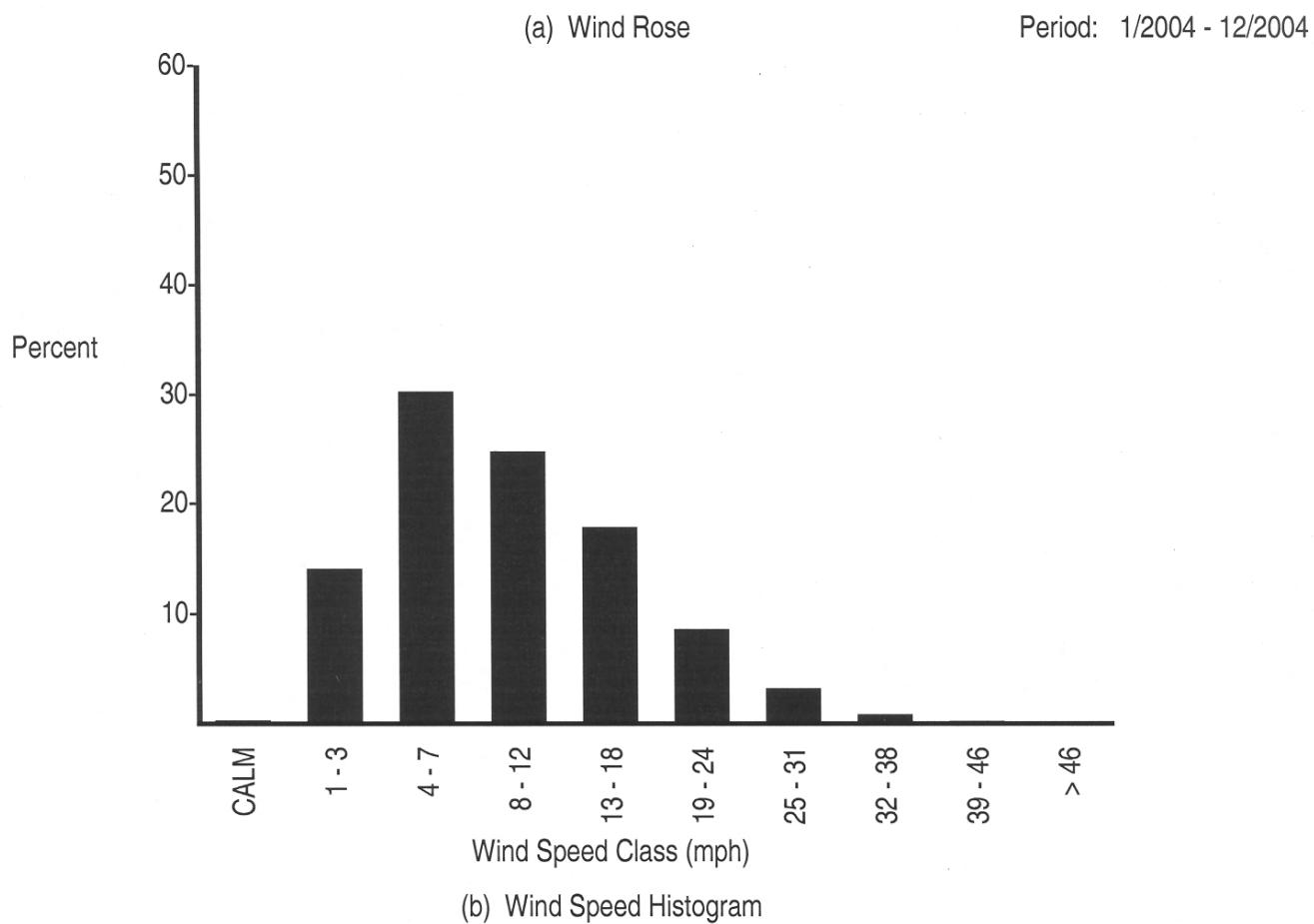
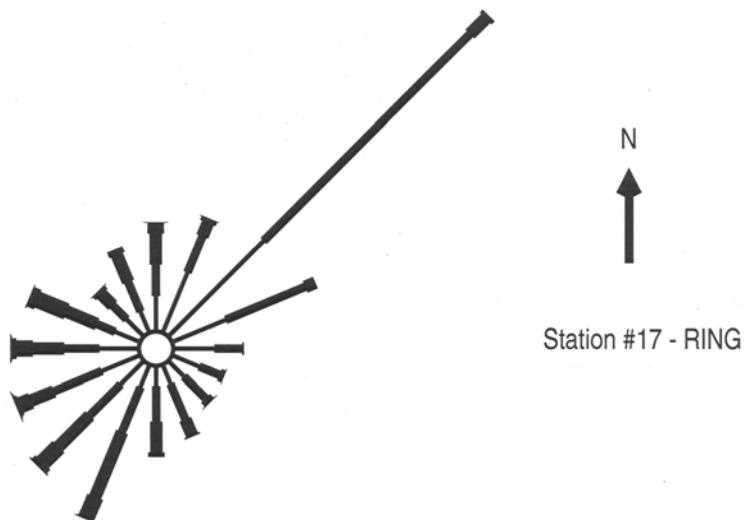


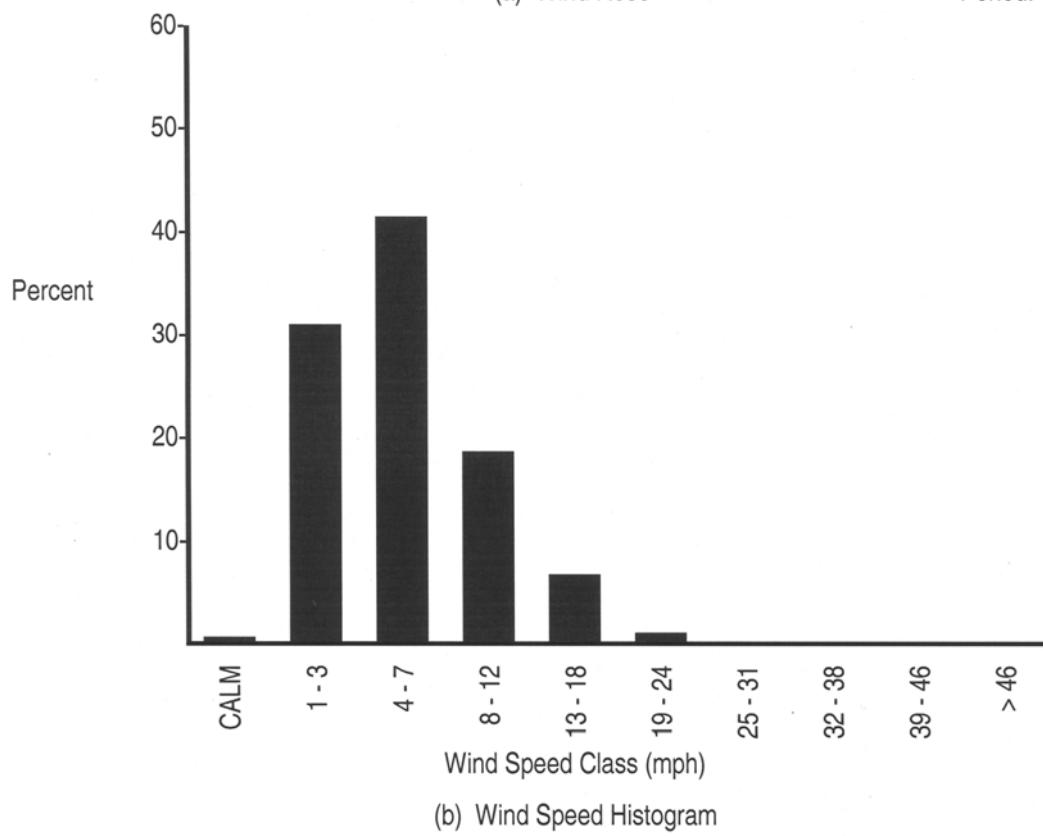
Figure B.1. (contd)

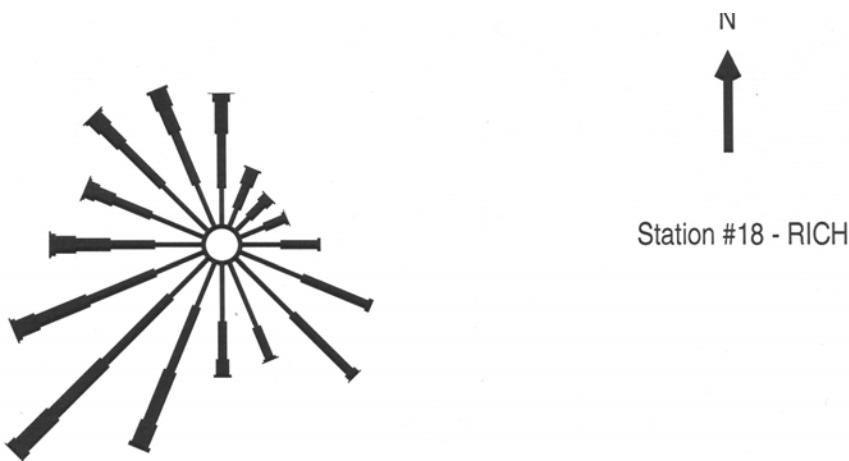
Figure B.1. (contd)



(a) Wind Rose

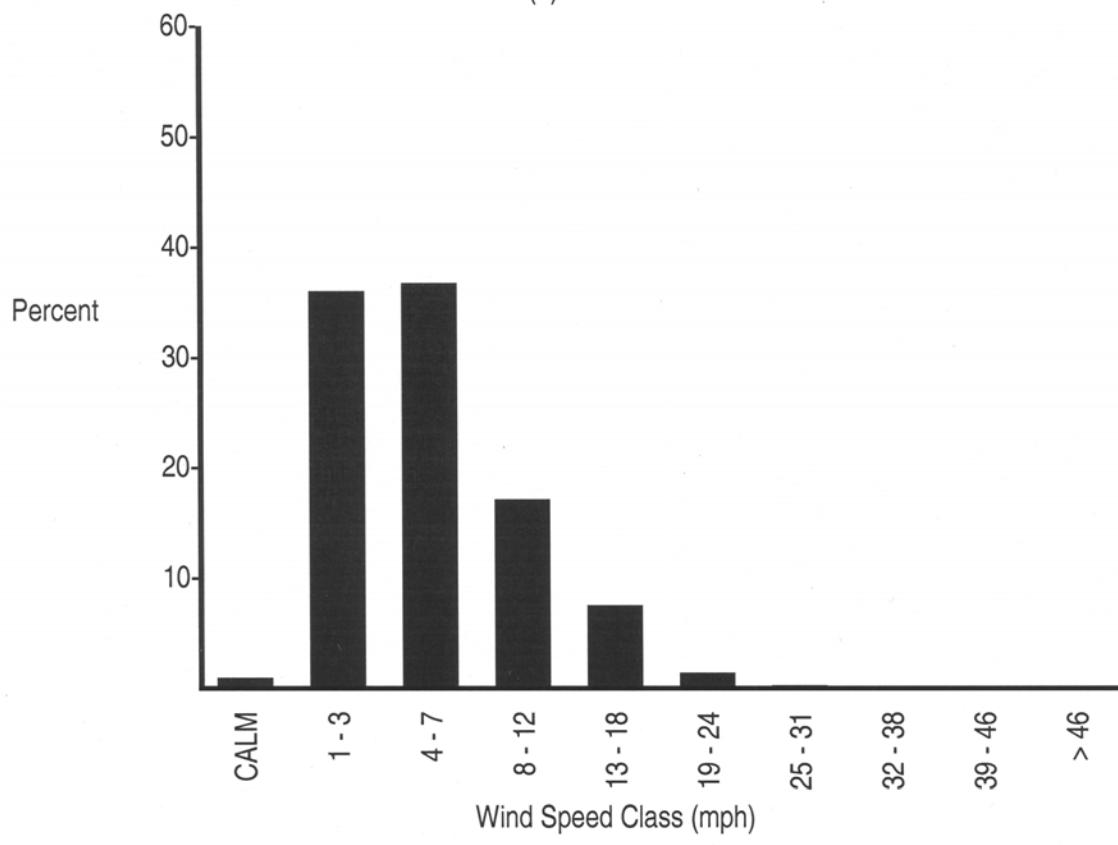
Period: 1/2004 - 12/2004





(a) Wind Rose

Period: 1/2004 - 12/2004

**Figure B.1. (contd)**

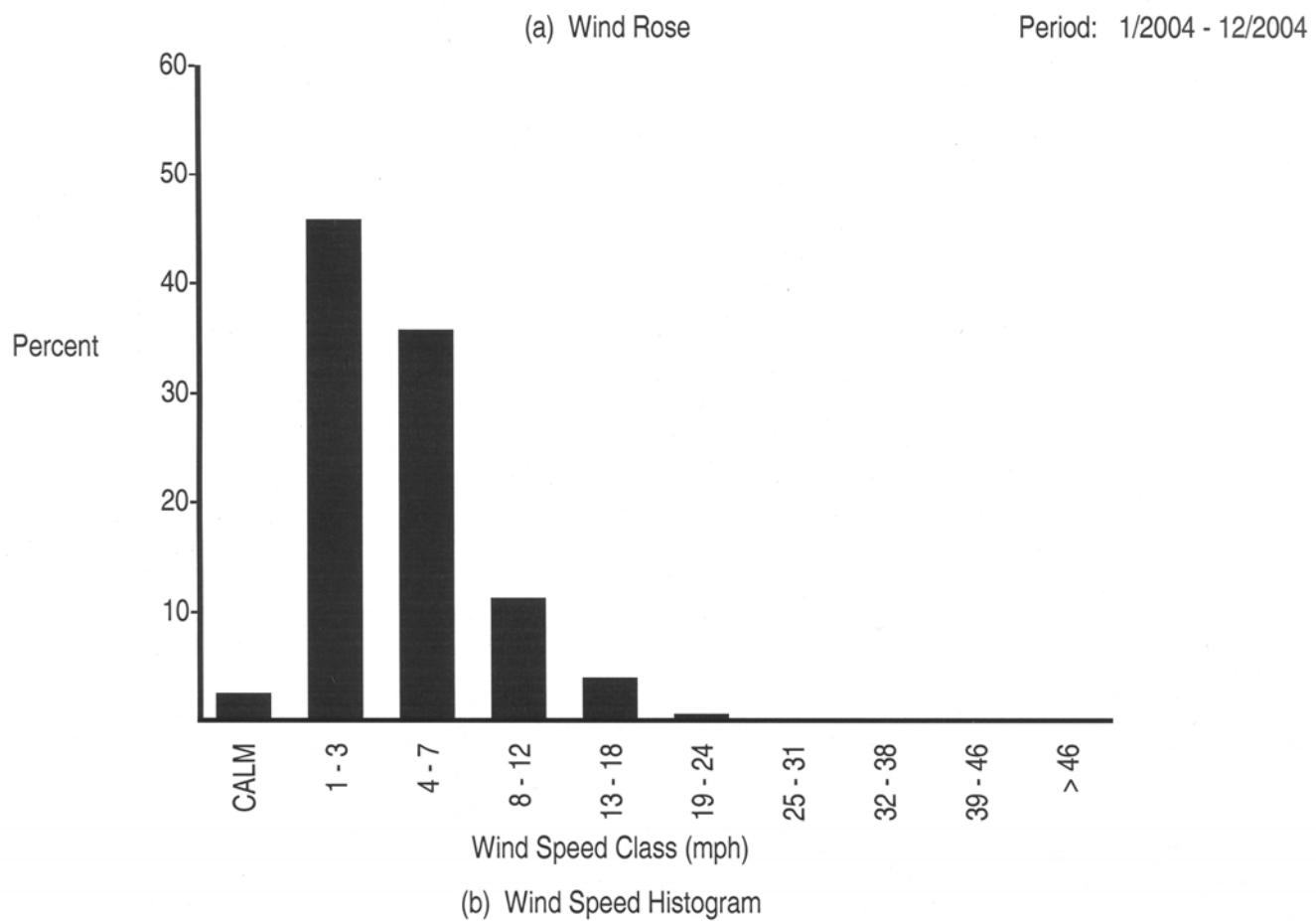
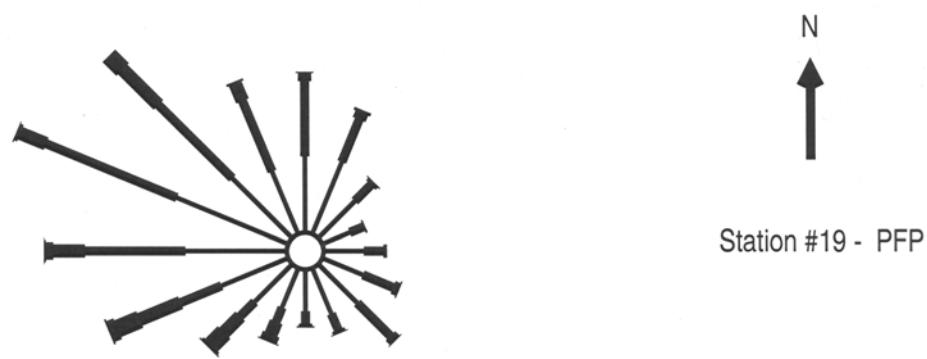


Figure B.1. (contd)

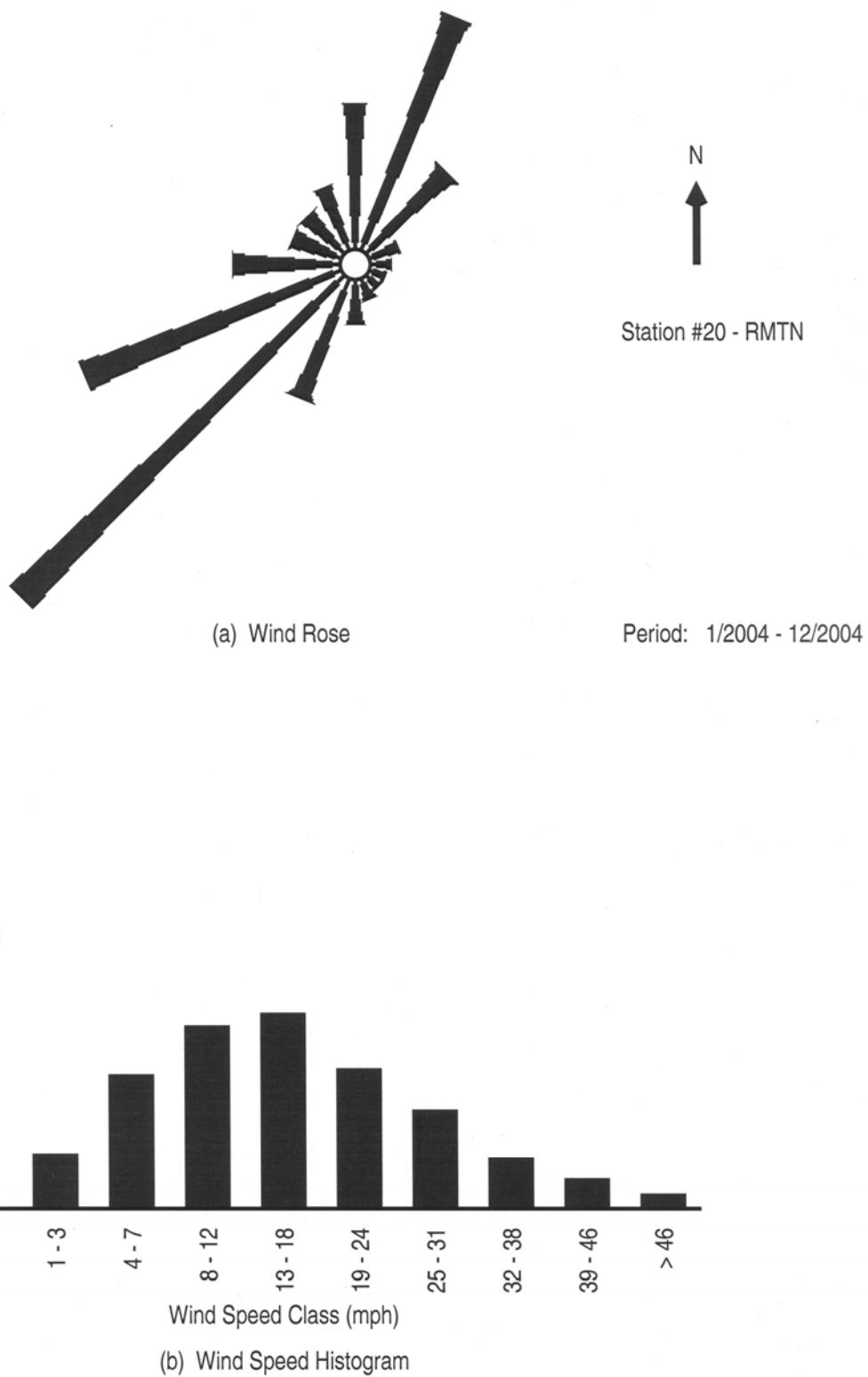


Figure B.1. (contd)

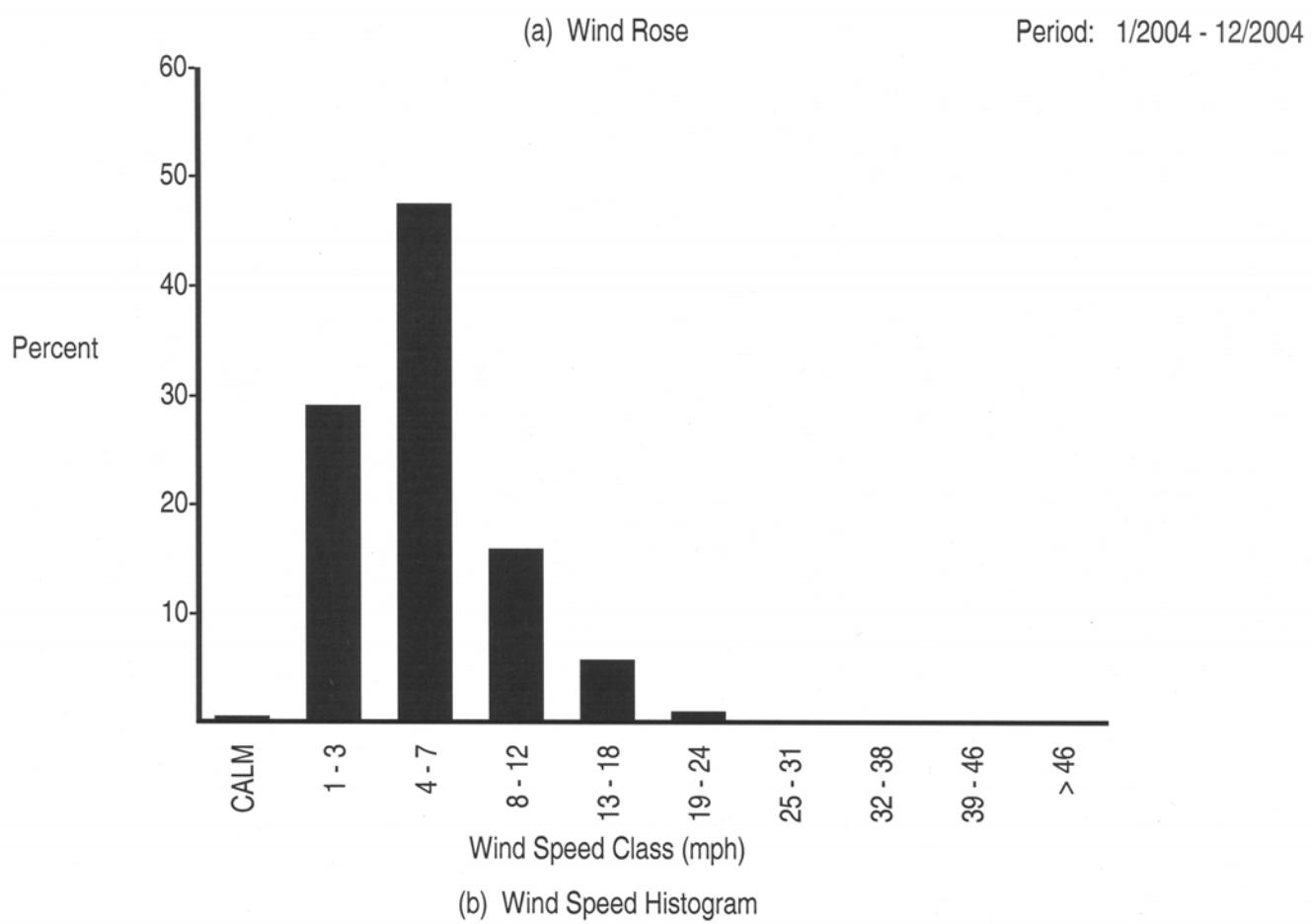
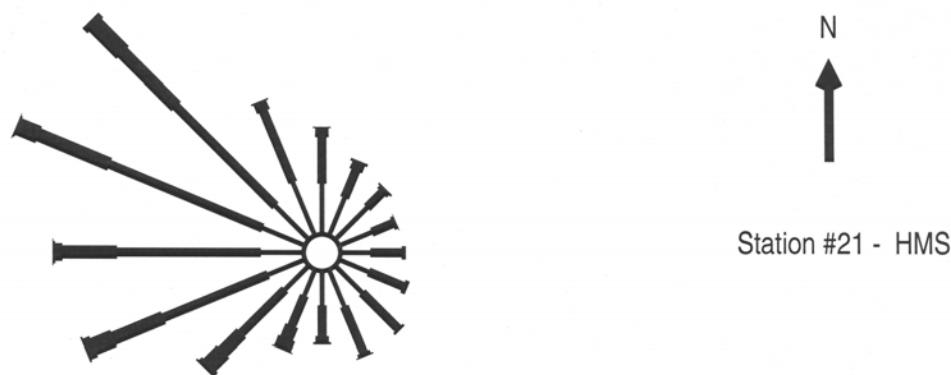


Figure B.1. (contd)

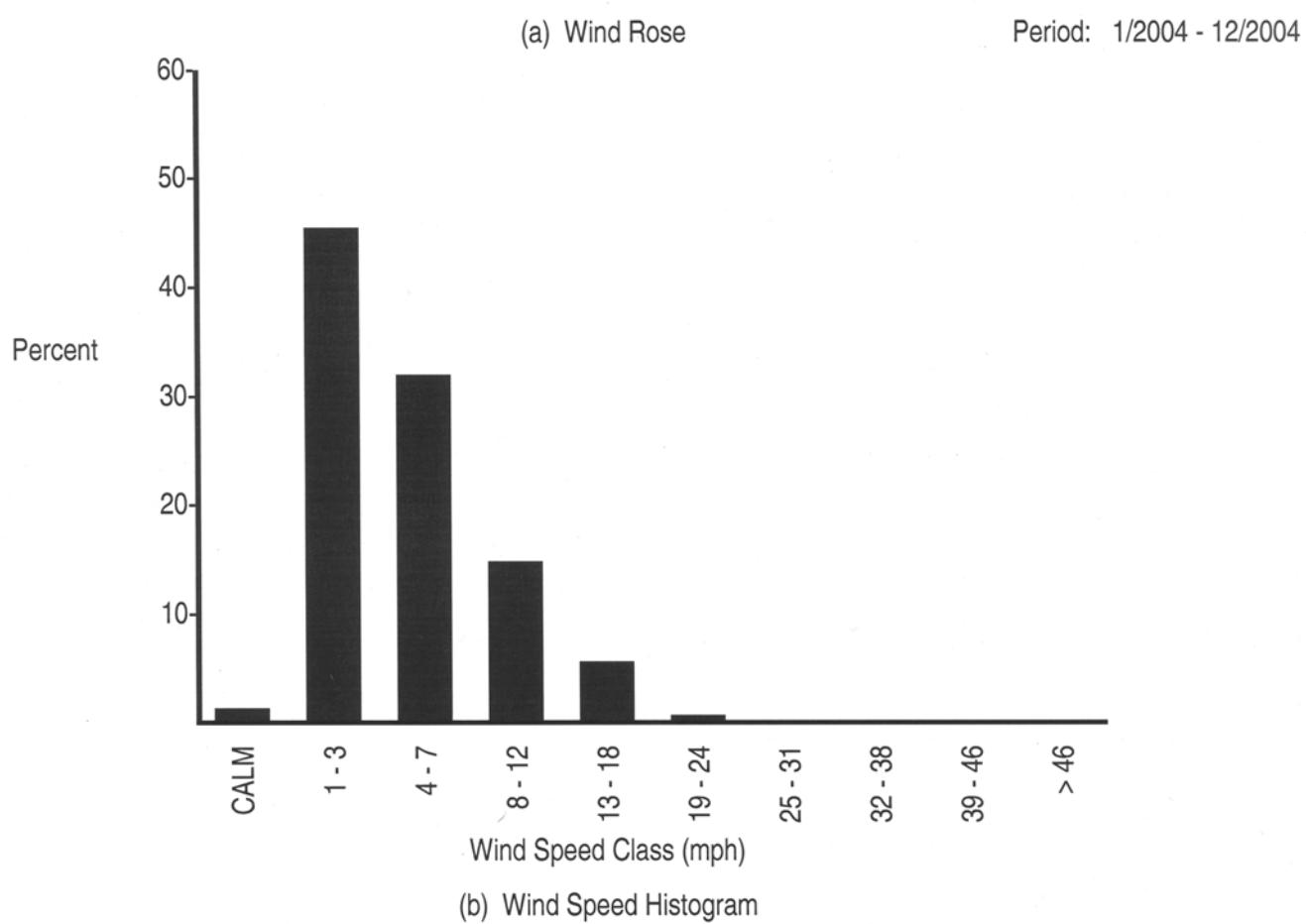
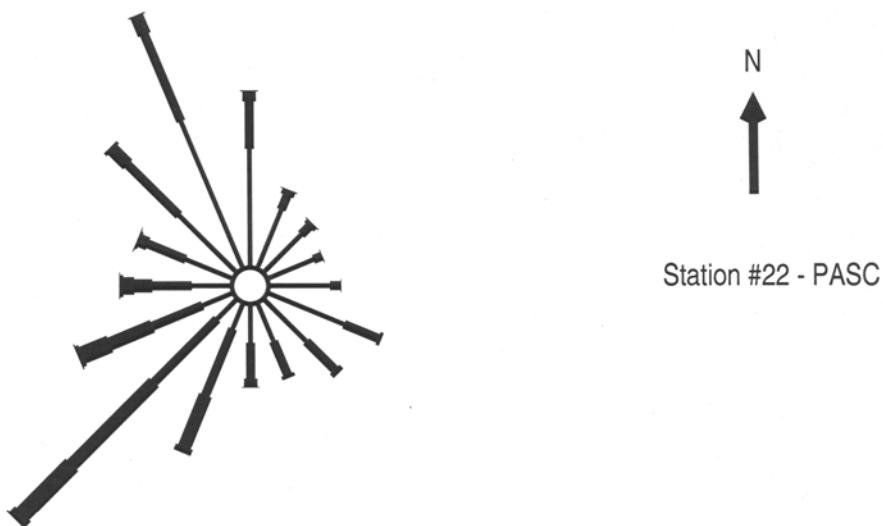


Figure B.1. (contd)

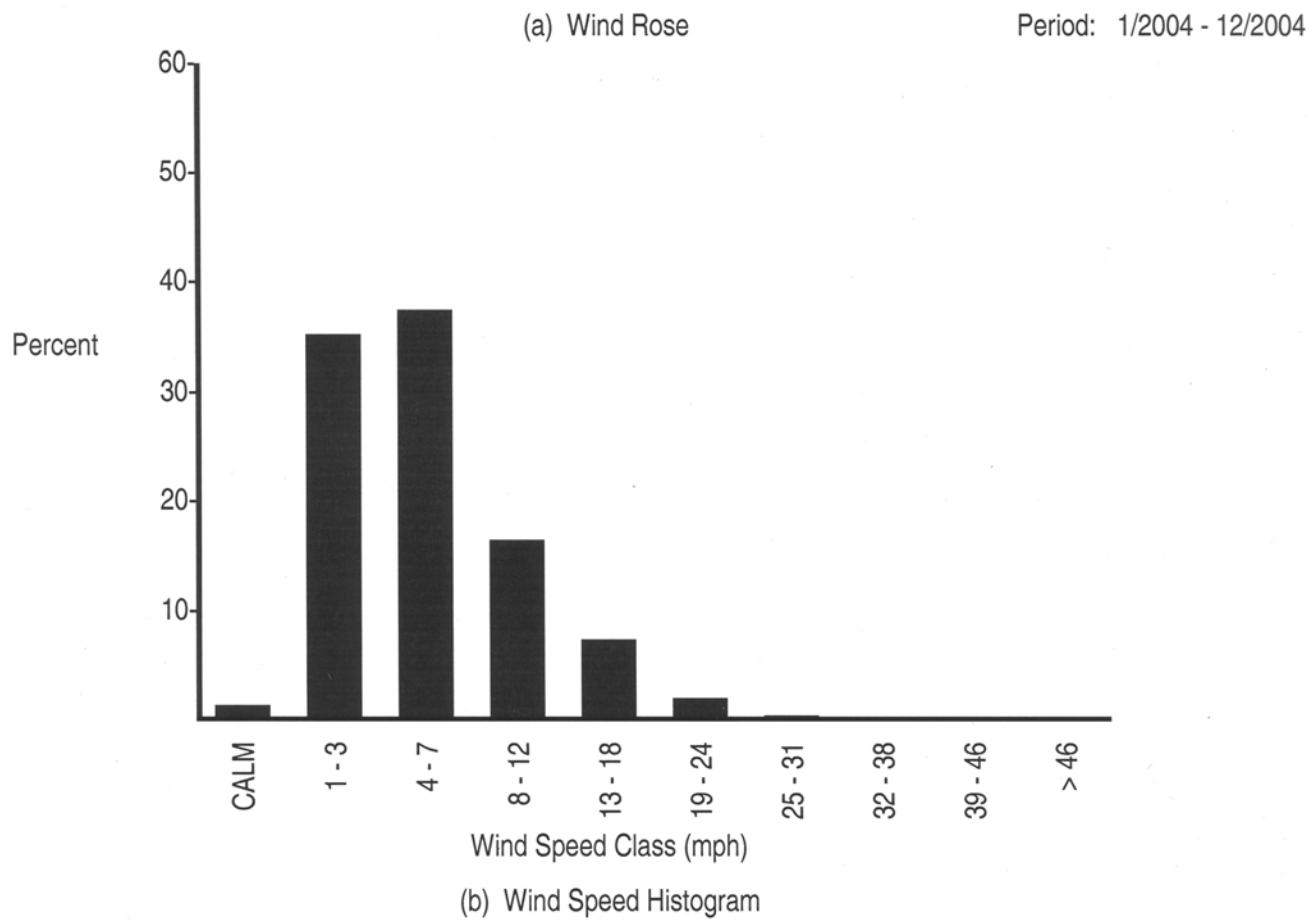
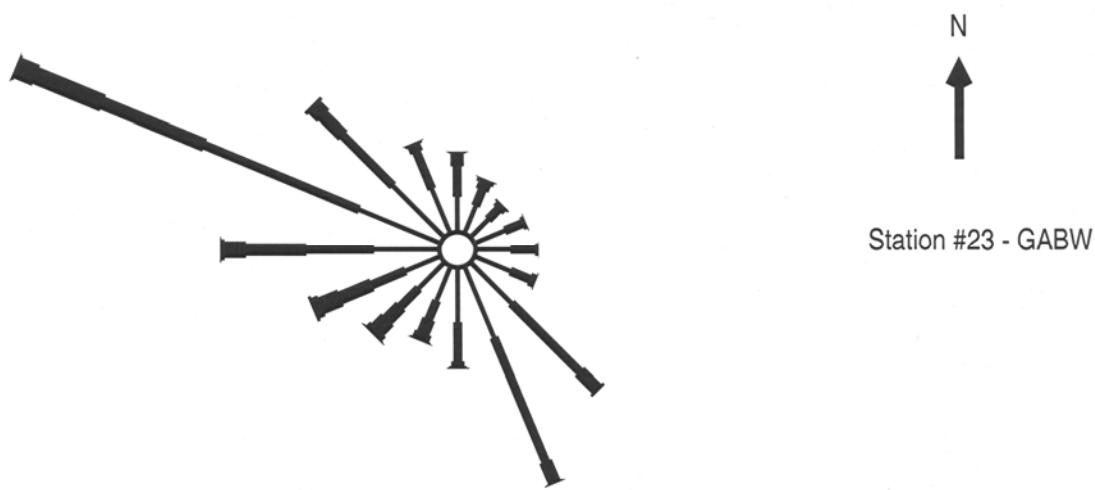
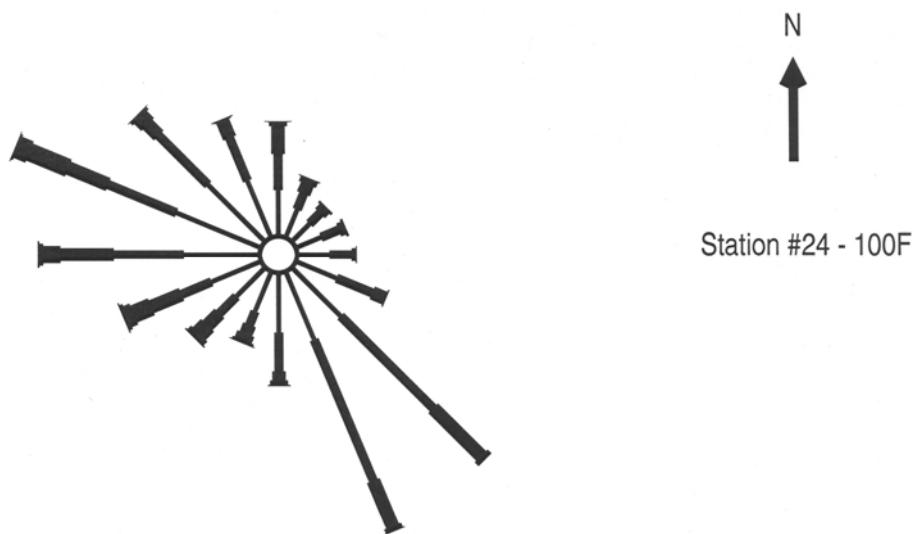


Figure B.1. (contd)



(a) Wind Rose

Period: 1/2004 - 12/2004

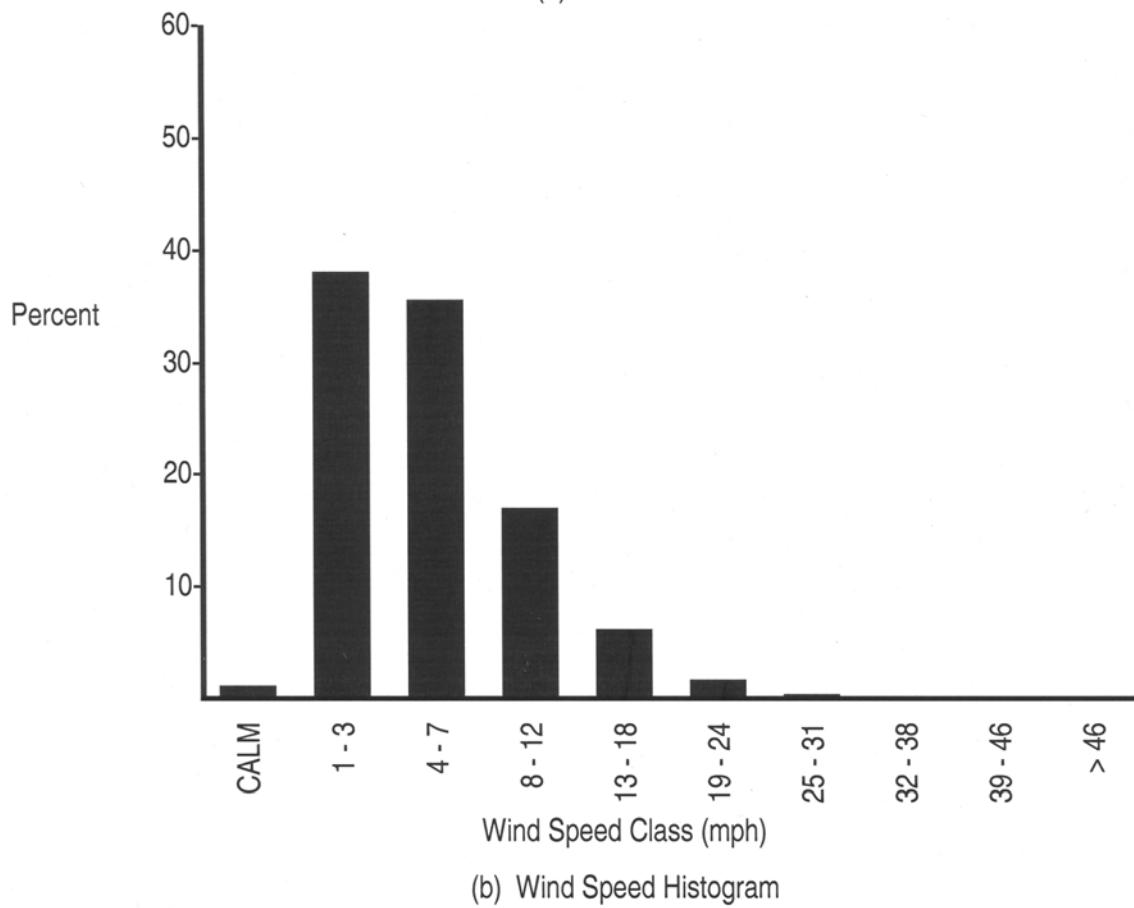


Figure B.1. (contd)

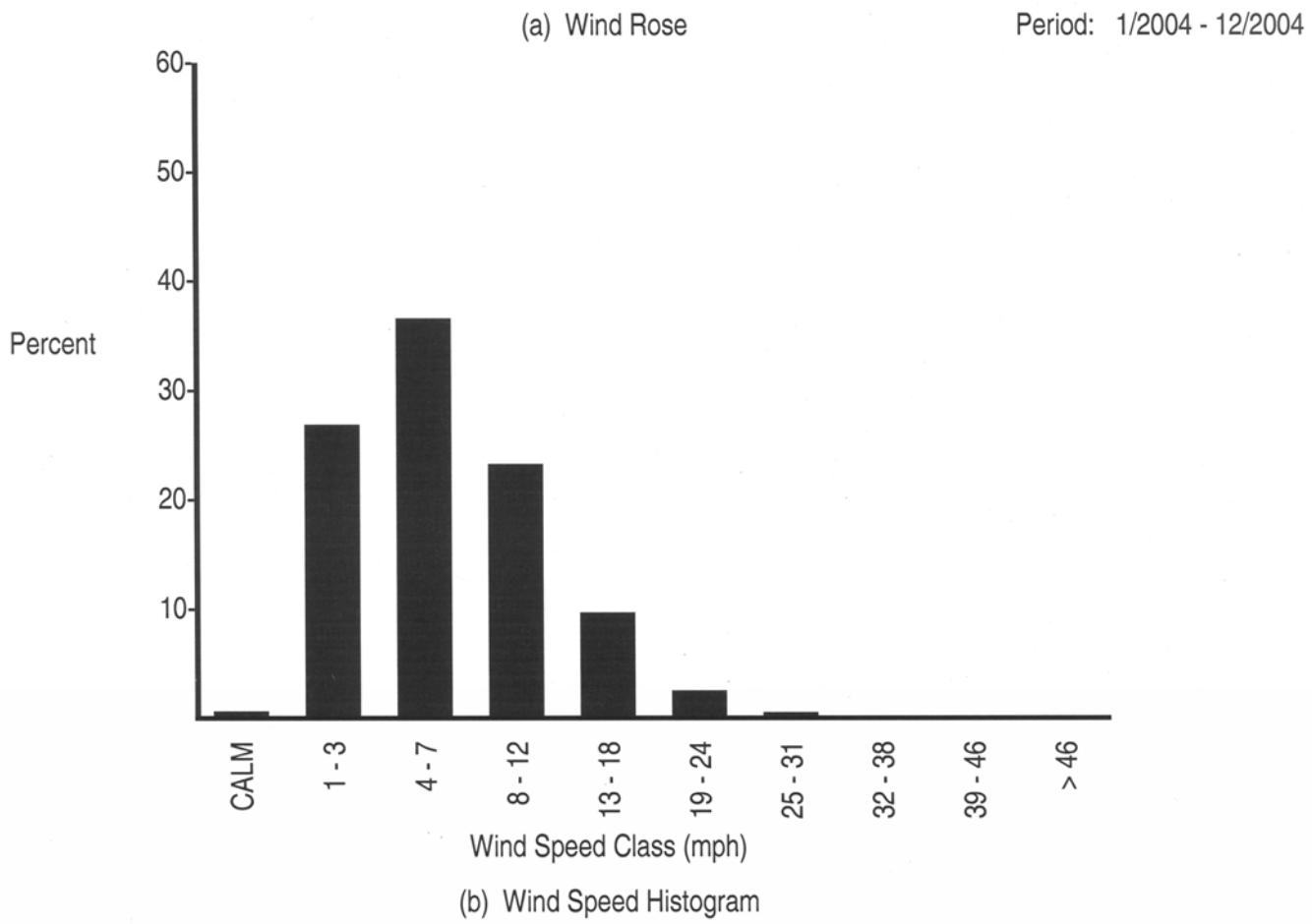
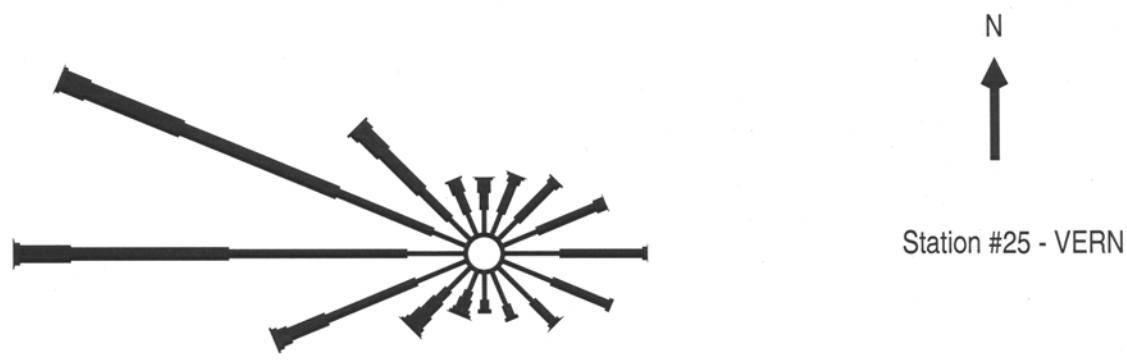


Figure B.1. (contd)

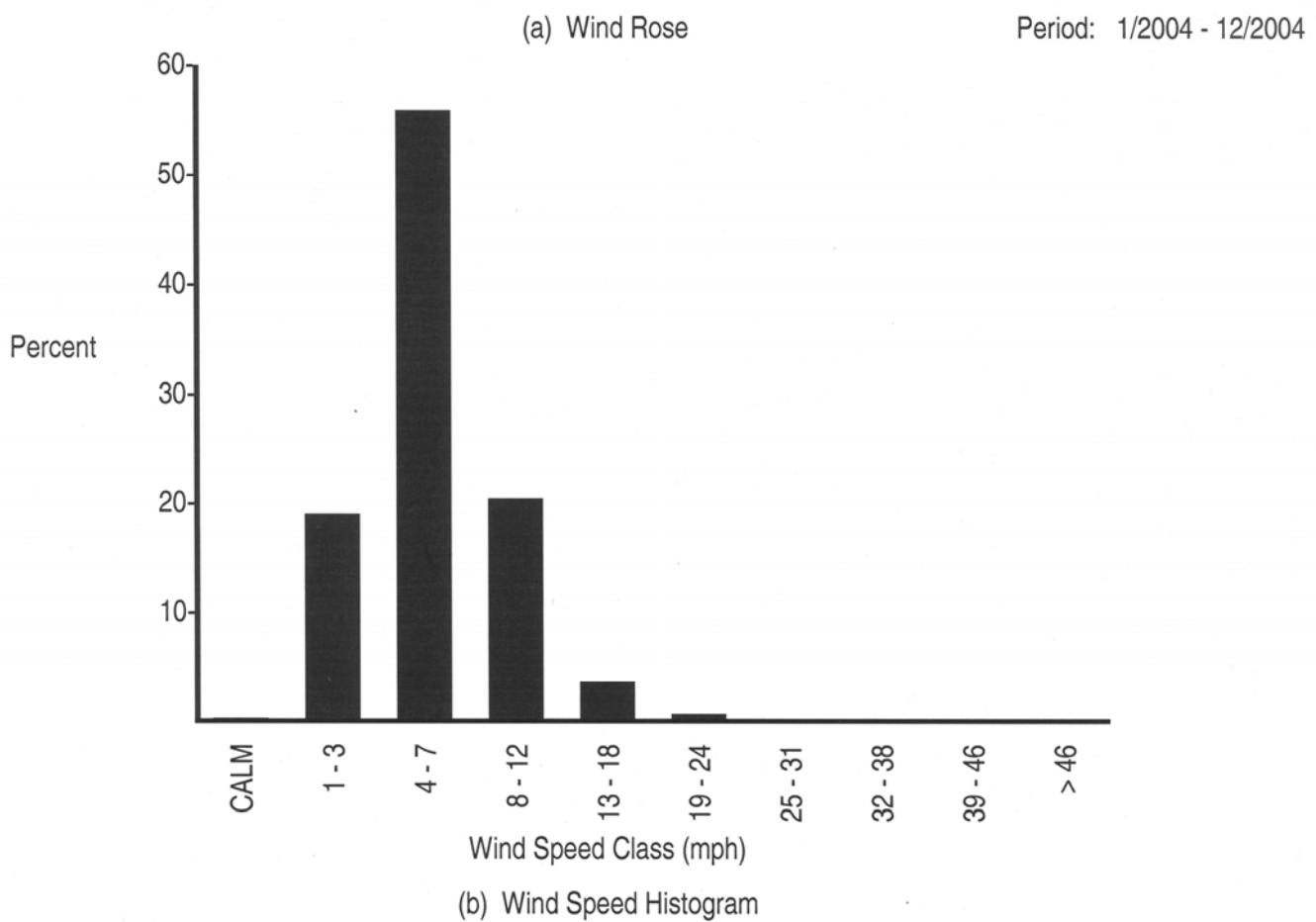
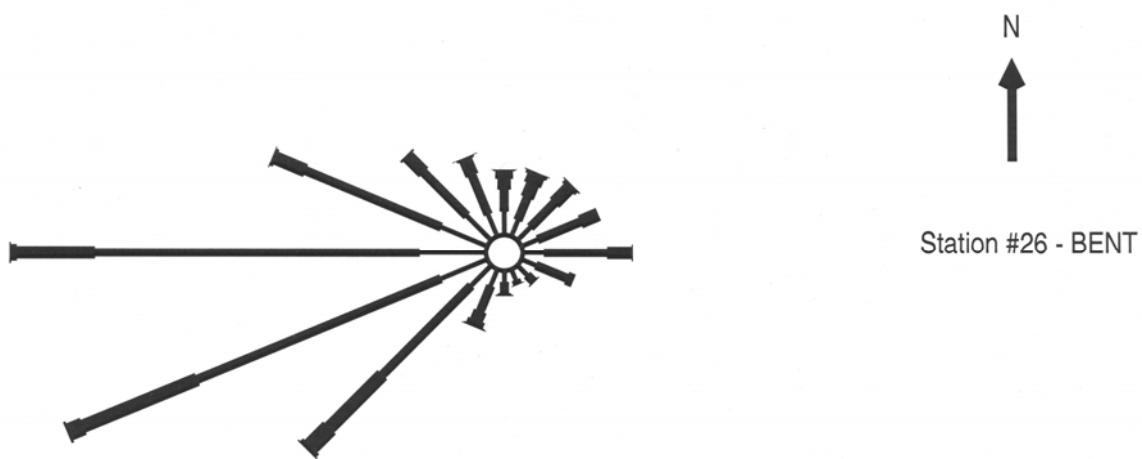


Figure B.1. (contd)

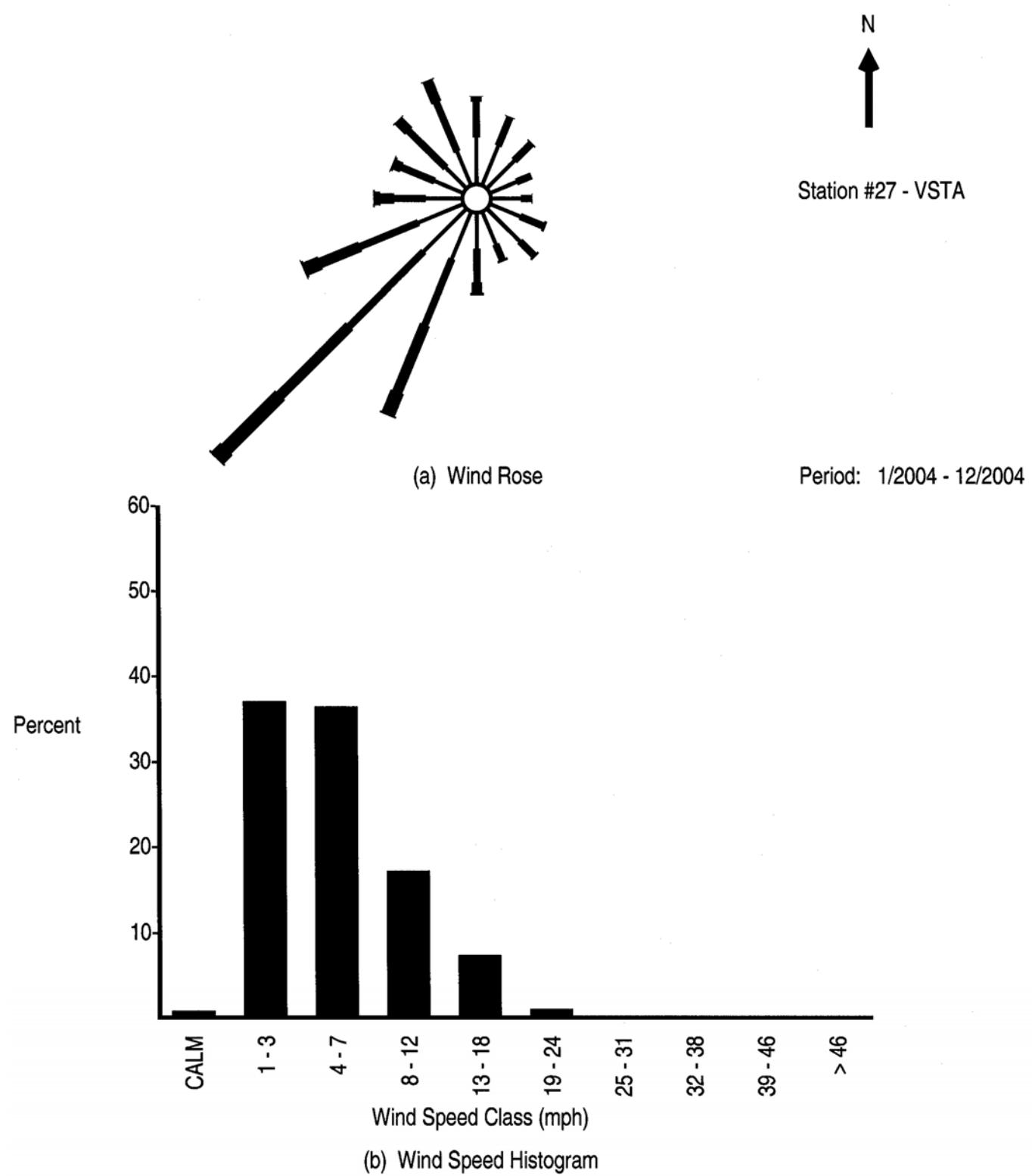
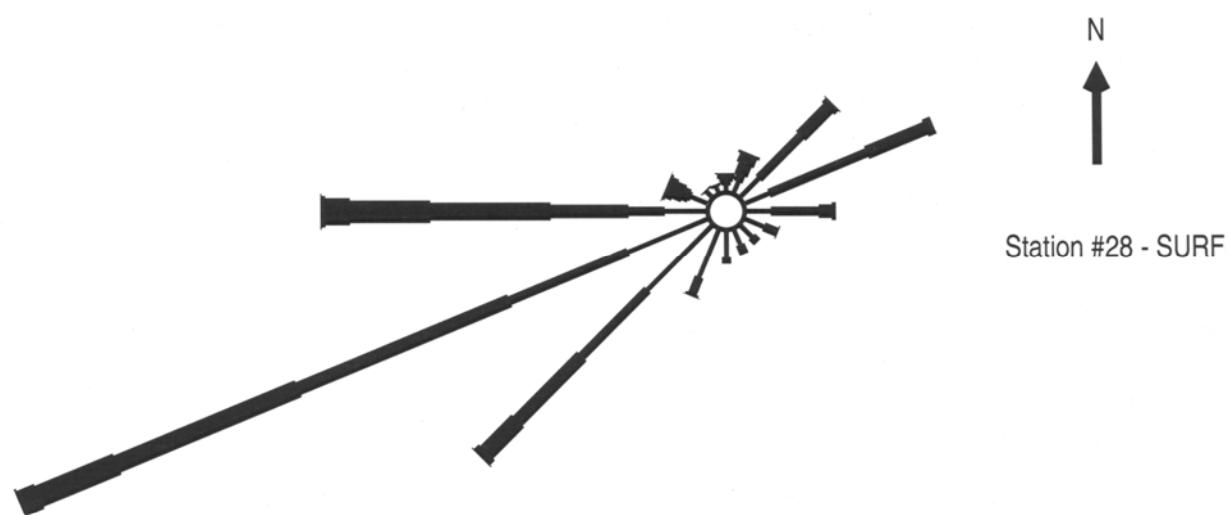
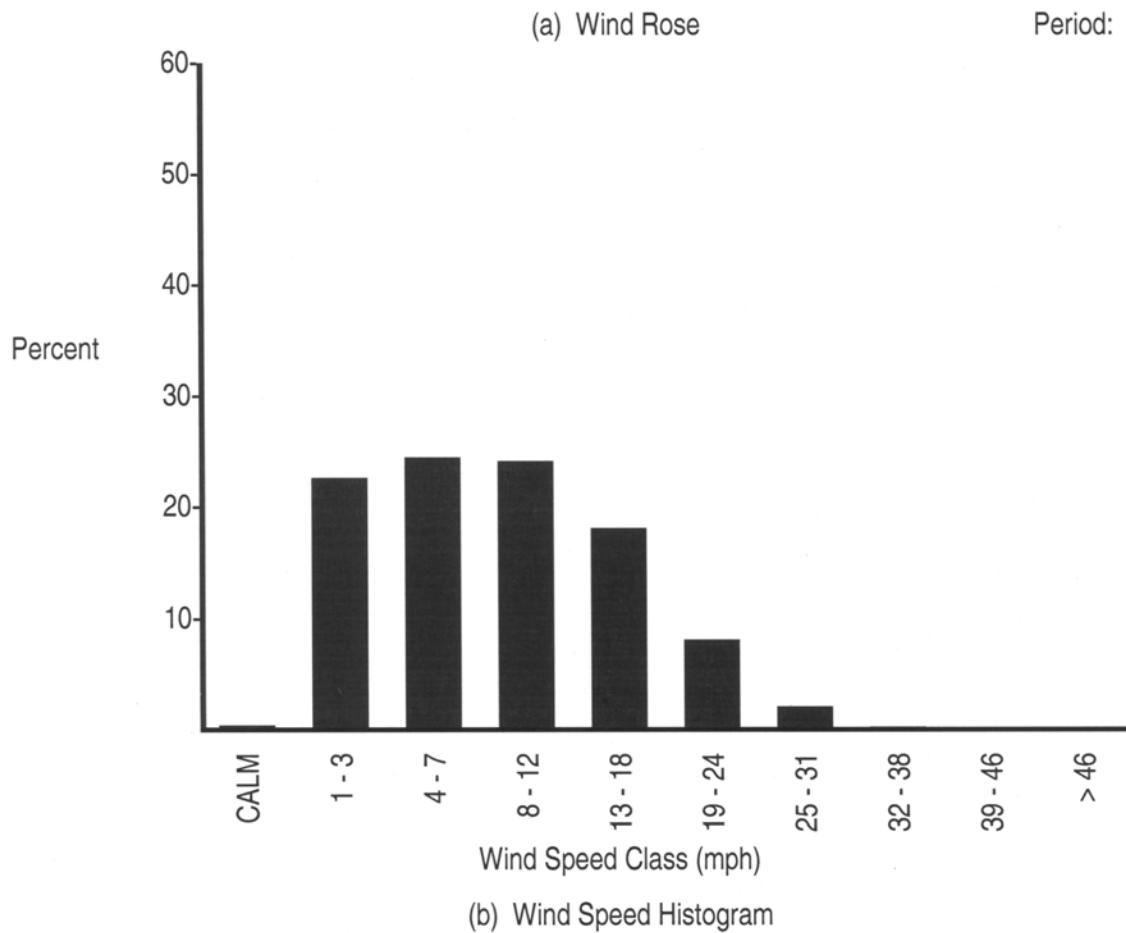


Figure B.1. (contd)



(a) Wind Rose

Period: 1/2004 - 12/2004

**Figure B.1. (contd)**

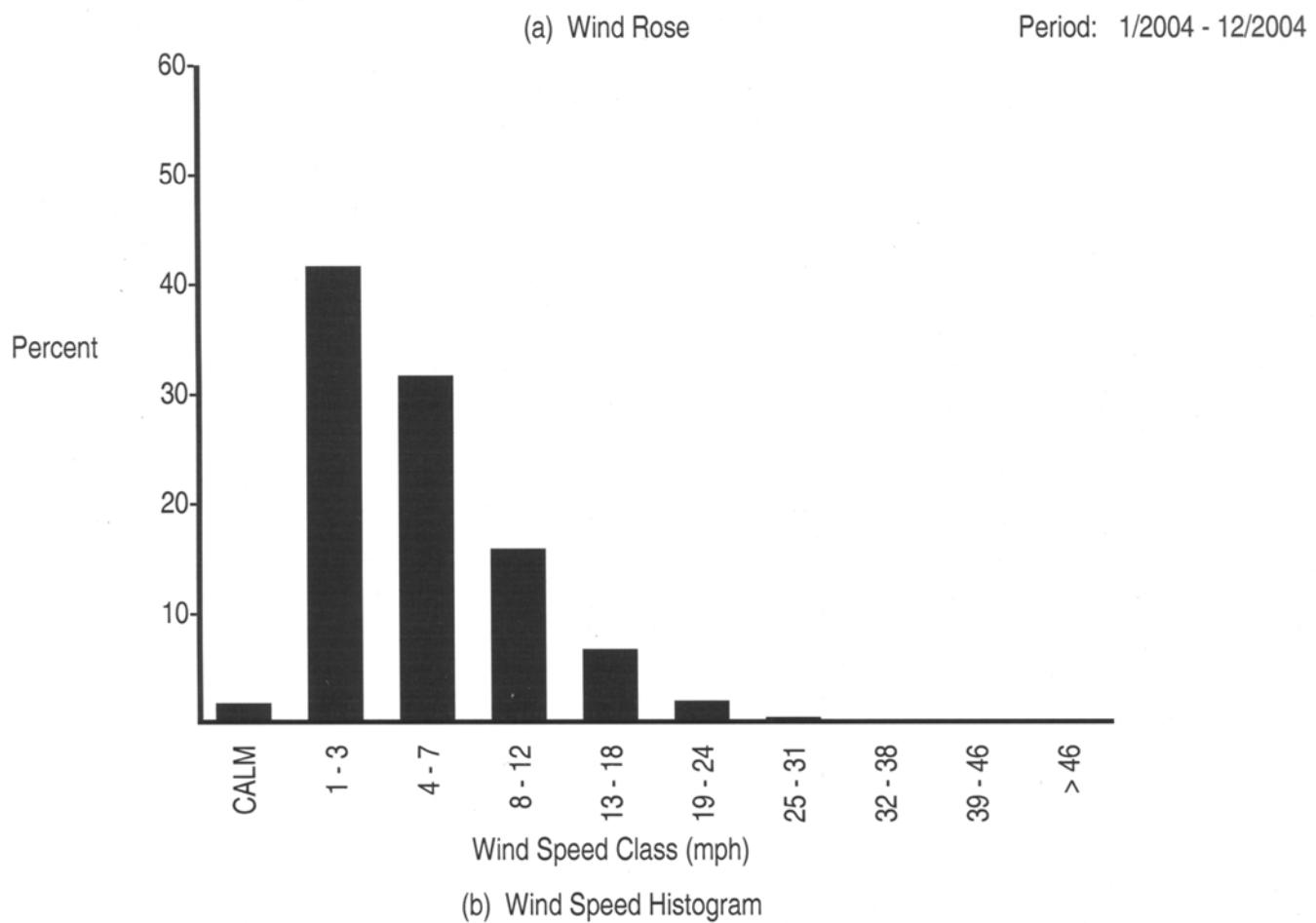
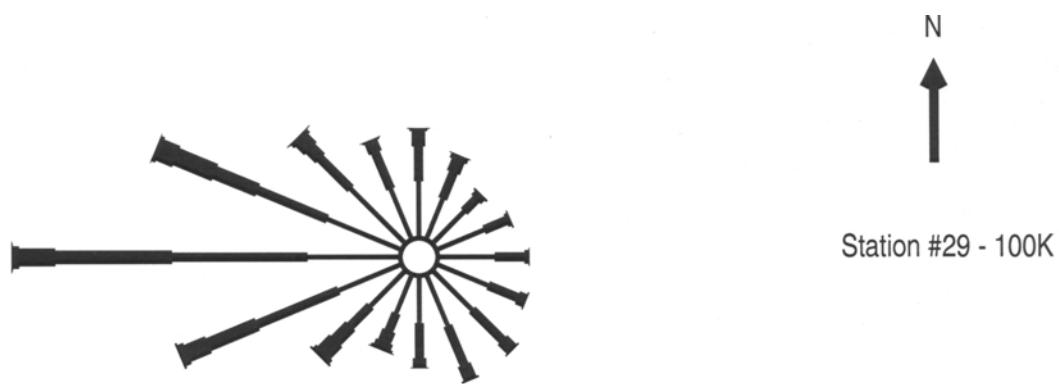


Figure B.1. (contd)

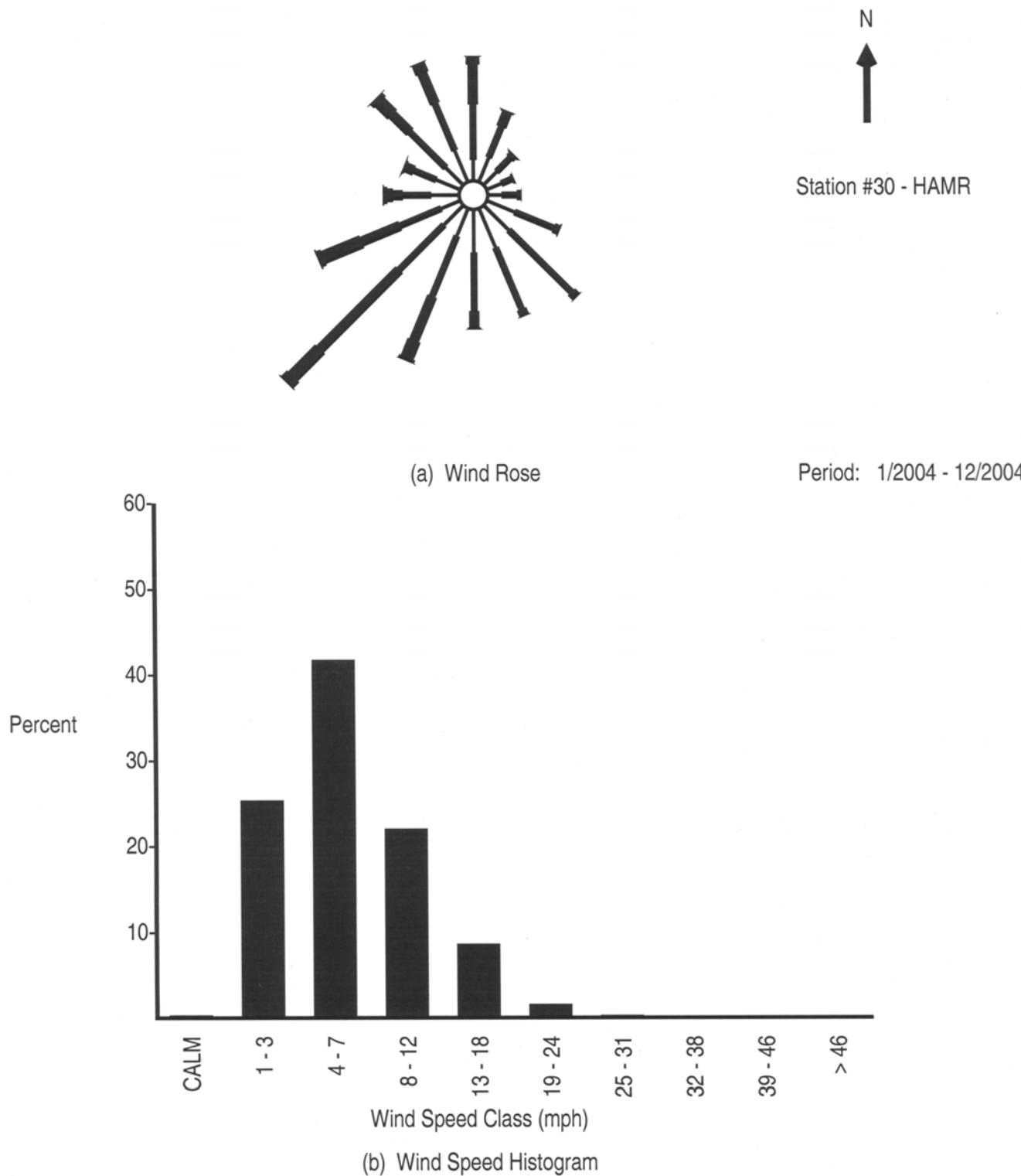


Figure B.1. (contd)

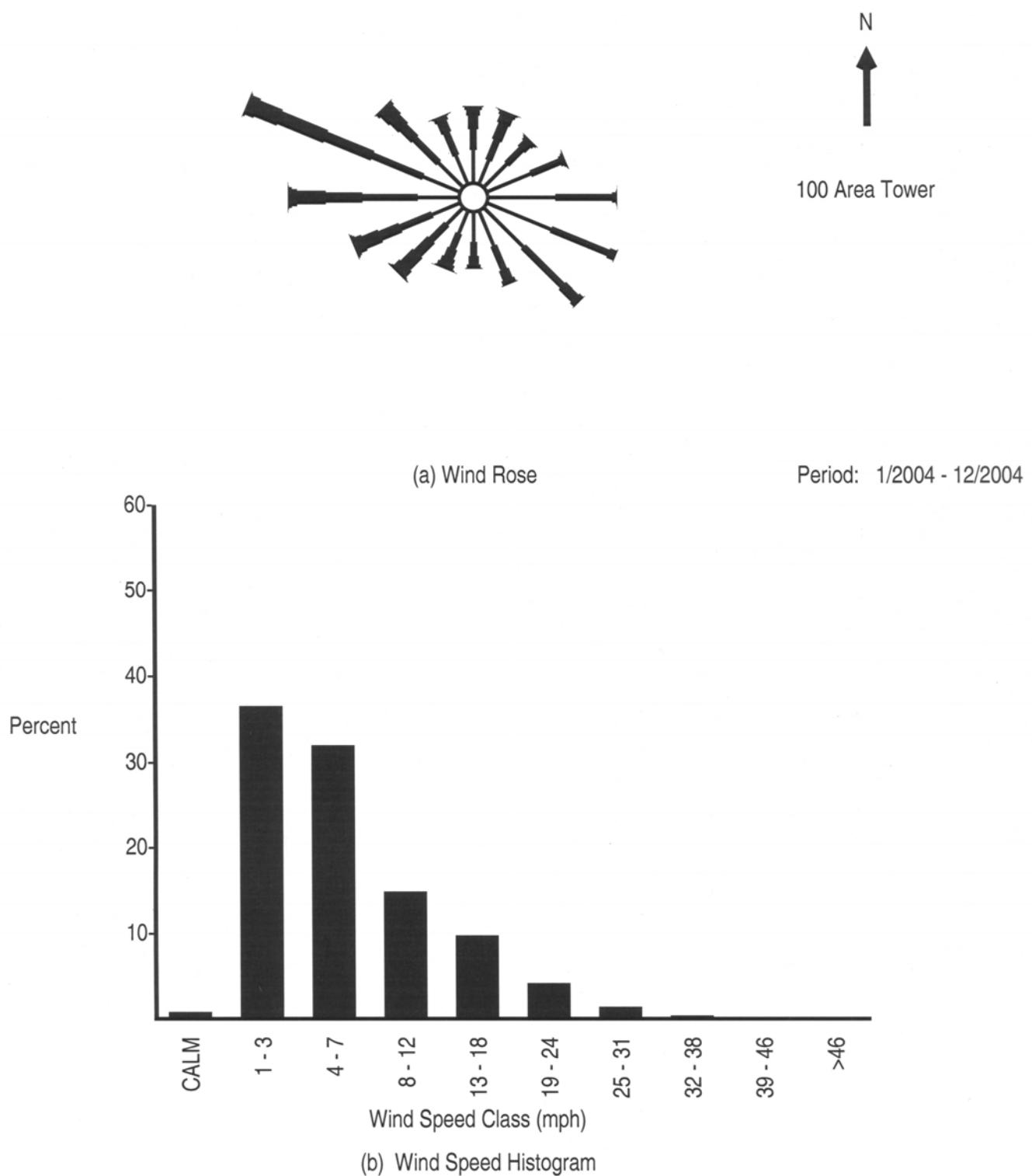
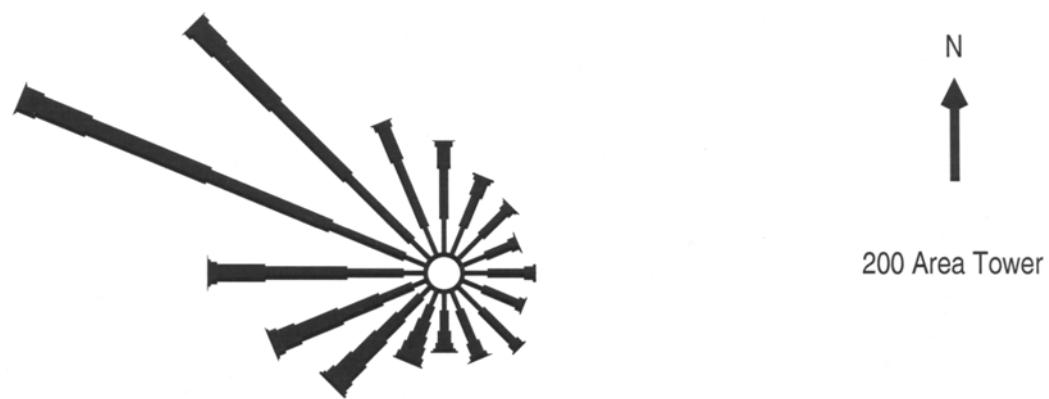


Figure B.2. Wind Rose and Wind Speed Histogram, 60 meters



(a) Wind Rose

Period: 1/2004 - 12/2004

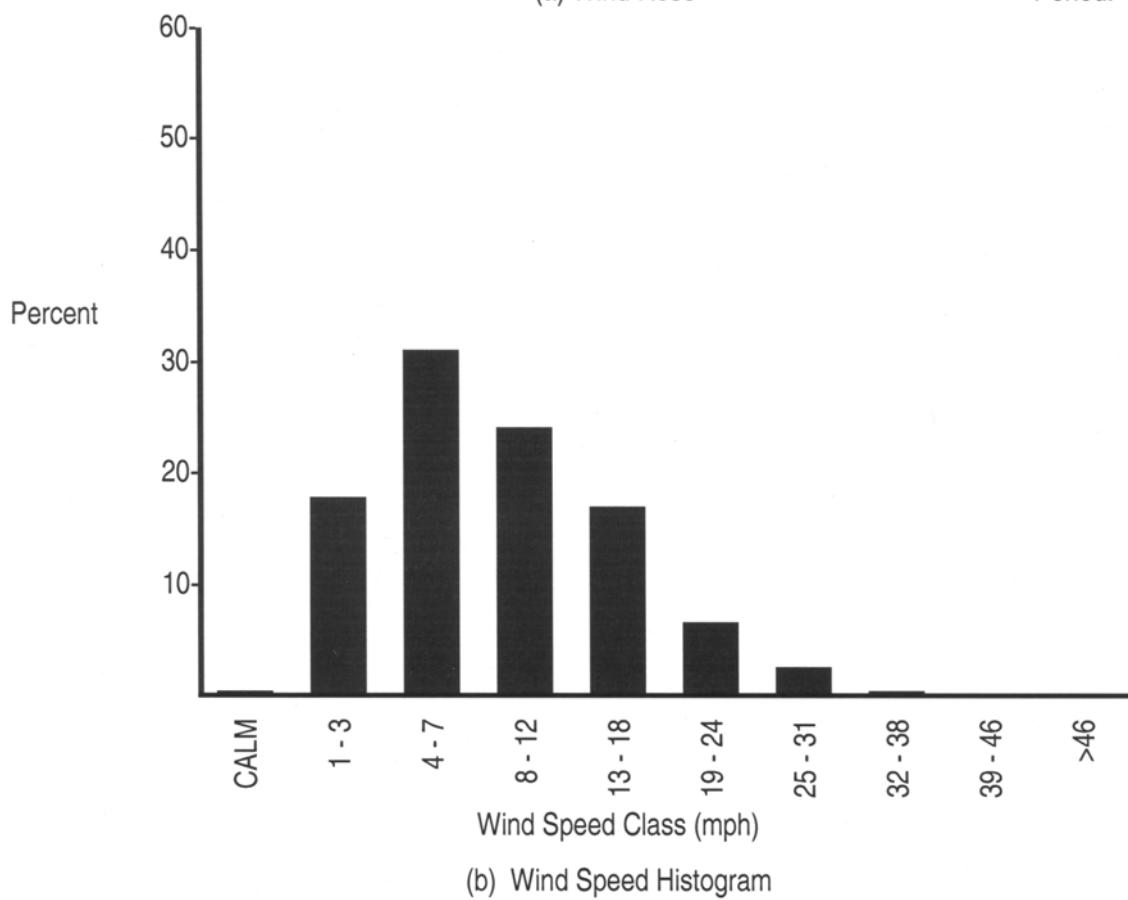
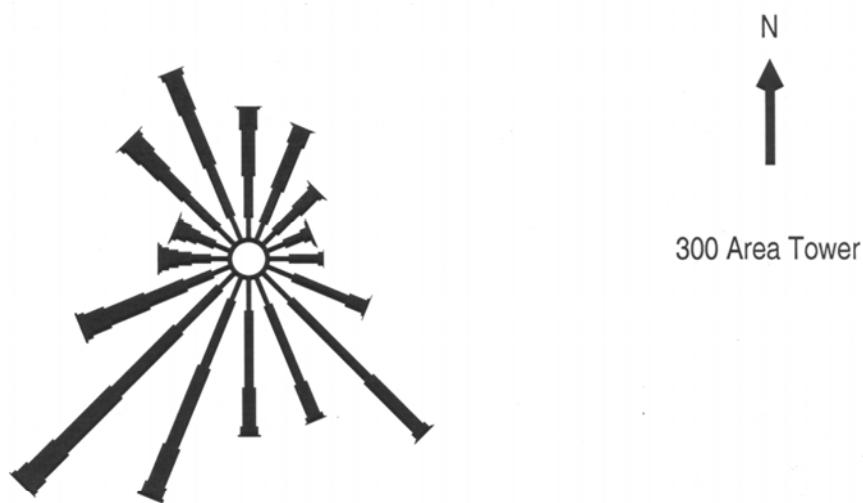


Figure B.2. (contd)



300 Area Tower

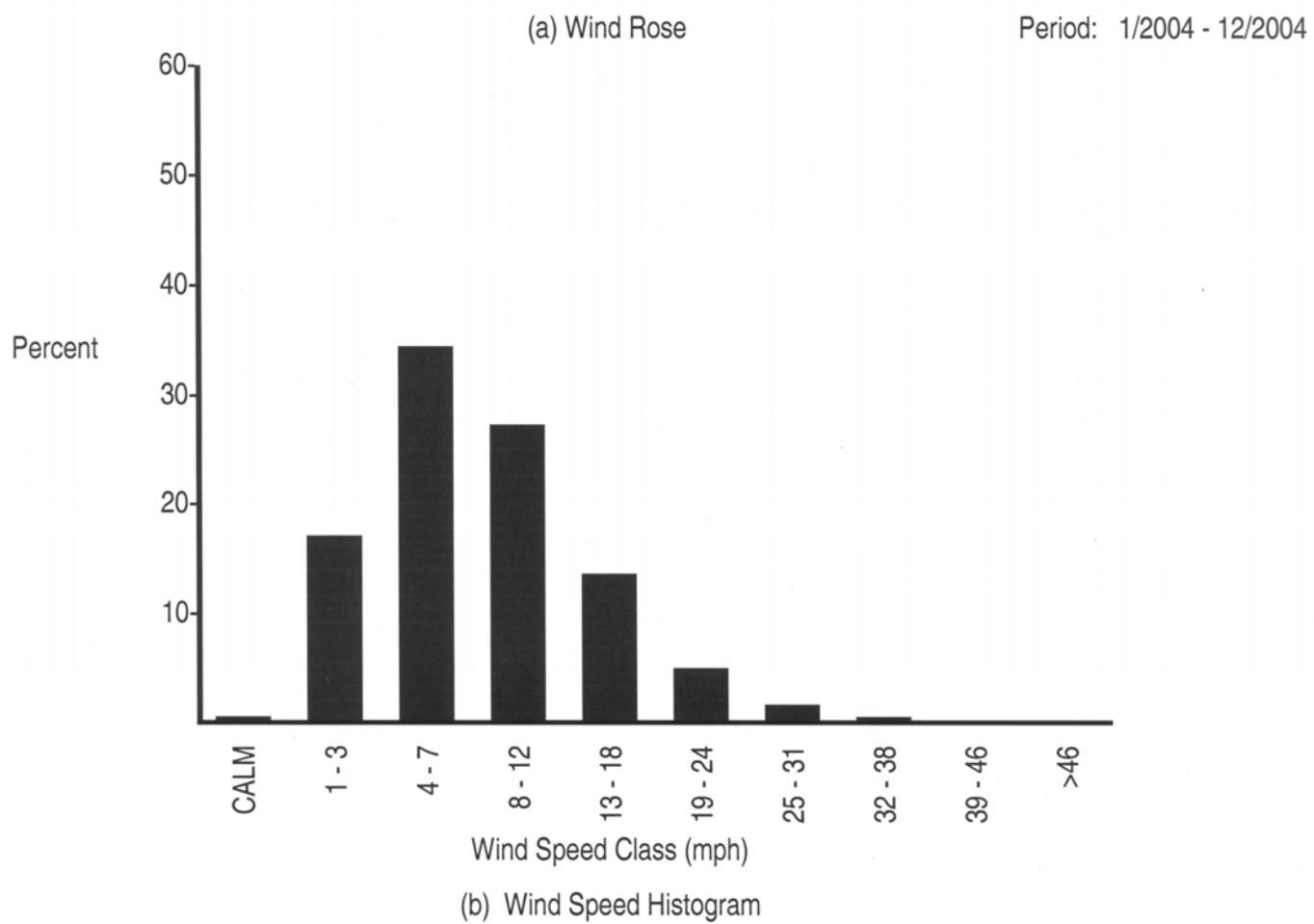
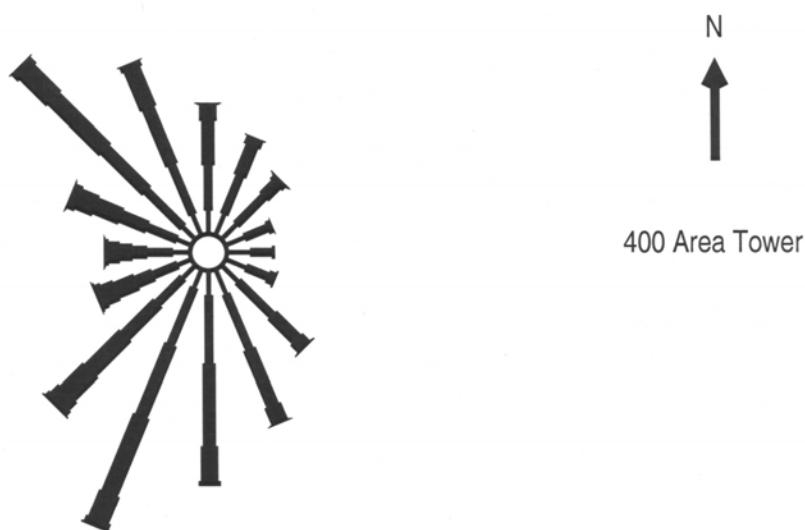


Figure B.2. (contd)



(a) Wind Rose

Period: 1/2004 - 12/2004

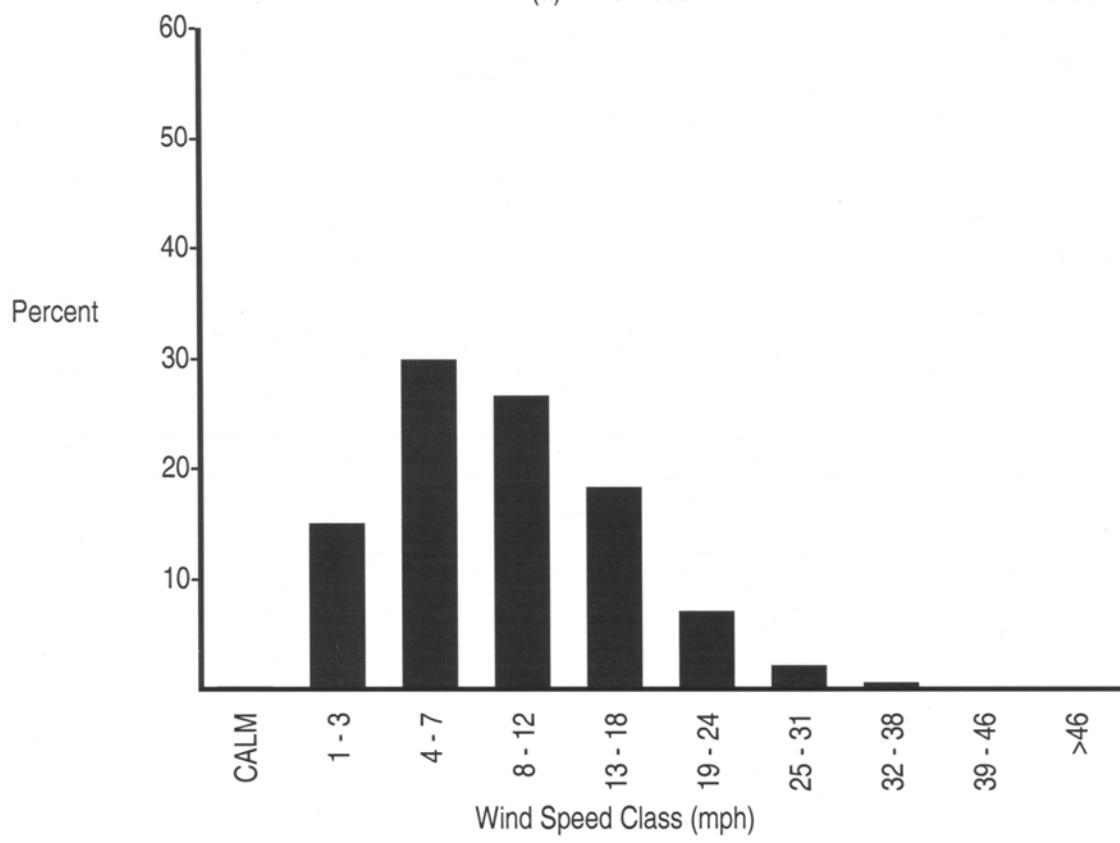
**Figure B.2. (contd)**

Table B.1. Joint Frequency Distributions (%) for Hanford Meteorological Monitoring Network Wind Stations at 30 Feet, 2004

Station: (1) PROS

SPEED	DIRECTION															Total Hours:	8758	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
1-3	2.4	1.3	1.1	0.9	1.1	1.1	1.8	2.3	2.2	2.2	1.9	1.3	1.4	1.6	2.8	3.2	0.0	28.4
4-7	2.3	1.4	0.8	0.5	0.8	1.1	2.9	5.2	4.9	3.7	1.4	0.4	0.6	1.1	3.2	5.0	0.0	35.2
8-12	1.6	0.5	0.2	0.1	0.1	0.3	0.7	1.5	3.3	4.7	1.7	0.7	0.4	0.5	2.8	3.0	0.0	21.9
13-18	0.5	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.5	2.7	1.6	0.9	0.5	0.2	2.0	1.1	0.0	10.3
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.3	0.1	0.0	0.6	0.0	0.0	2.5
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.0	0.1	0.0	0.0	0.7
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	6.8	3.3	2.3	1.5	2.0	2.5	5.4	9.0	10.9	13.9	7.4	3.8	3.0	3.5	11.5	12.4	0.9	100.0

Station: (2) EOC

SPEED	DIRECTION															Total Hours:	8735	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9
1-3	1.3	1.0	1.1	0.7	0.6	0.6	0.9	1.1	1.2	1.1	1.4	1.4	1.6	1.6	1.8	1.3	0.0	18.8
4-7	2.7	2.5	1.3	0.9	1.0	1.0	1.3	1.1	1.6	1.7	1.4	1.2	2.3	3.9	4.0	2.8	0.0	30.7
8-12	1.6	0.6	0.2	0.1	0.1	0.1	0.4	0.4	0.9	2.2	2.8	1.9	1.6	3.4	5.2	3.2	0.0	24.6
13-18	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	2.2	2.3	1.6	0.6	3.6	2.2	0.0	13.9
19-24	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3	2.1	0.9	0.2	0.8	0.3	0.0	6.0
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.1	0.3	0.1	0.1	0.0	0.0	2.5
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.6
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	6.2	4.2	2.6	1.7	1.7	1.7	2.6	2.7	3.7	5.8	10.4	10.2	8.3	9.8	15.6	9.8	2.9	100.0

Station: (3) ARMY

SPEED	DIRECTION															Total Hours:	8748	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9
1-3	2.2	1.8	1.9	2.1	2.3	2.5	2.3	1.6	1.2	1.1	1.0	1.3	2.5	3.4	3.6	3.0	0.0	33.6
4-7	2.0	0.9	0.9	1.2	1.6	2.7	2.8	1.5	0.6	0.4	0.4	0.7	1.7	6.2	7.2	3.9	0.0	34.8
8-12	1.0	0.4	0.2	0.1	0.2	0.6	0.9	0.6	0.3	0.3	0.6	0.9	1.5	4.5	4.0	2.2	0.0	18.3
13-18	0.2	0.2	0.1	0.0	0.0	0.1	0.1	0.2	0.2	0.5	1.1	1.1	1.0	1.4	0.4	0.0	0.0	6.7
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.7	0.4	0.4	0.2	0.6	0.1	0.0	2.8
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.8
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	5.4	3.2	3.0	3.5	4.2	5.8	6.1	3.8	2.3	2.2	3.1	5.1	7.5	15.4	16.9	9.6	2.9	100.0

Station: (4) RSPG

SPEED	DIRECTION															Total Hours:	8763	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
1-3	1.6	1.8	1.4	1.6	1.7	1.5	1.9	0.8	0.9	0.9	1.6	2.0	1.5	1.1	1.0	0.9	0.0	22.1
4-7	2.5	1.8	1.4	1.5	2.0	1.9	0.9	0.4	0.4	0.6	2.6	9.0	4.2	1.3	1.4	2.0	0.0	33.8
8-12	1.0	0.3	0.2	0.1	0.2	0.4	0.2	0.1	0.2	0.7	1.9	15.3	4.6	2.1	1.6	1.1	0.0	30.1
13-18	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4	1.0	3.6	2.4	1.2	0.8	0.4	0.0	10.2
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.6	0.4	0.1	0.3	0.1	0.0	0.0	2.4
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.5
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	5.2	4.0	3.1	3.2	3.9	3.8	3.0	1.3	1.6	2.9	7.7	30.7	13.1	5.8	5.1	4.5	0.8	100.0

Table B.1. (contd)**Station: (5) EDNA**

SPEED	DIRECTION															Total Hours:	8748	
	N	NNNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
1-3	1.0	0.6	0.6	0.7	1.0	1.7	3.9	4.4	3.8	1.9	1.6	1.5	1.8	3.4	3.1	1.5	0.0	32.6
4-7	1.3	0.7	0.7	0.8	1.9	5.3	8.7	4.3	2.1	0.8	0.7	0.9	0.9	2.7	6.1	3.9	0.0	41.6
8-12	1.0	0.4	0.2	0.1	0.8	2.0	1.3	0.9	0.7	0.6	0.7	1.0	1.2	1.4	2.4	2.1	0.0	16.7
13-18	0.2	0.3	0.2	0.1	0.0	0.1	0.2	0.2	0.3	0.4	0.4	0.7	0.7	1.4	0.9	0.1	0.0	6.1
19-24	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.2	0.5	0.2	0.0	0.0	1.7
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.4
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	3.5	1.9	1.8	1.7	3.7	9.1	14.1	9.8	7.0	3.9	3.4	4.6	4.8	9.4	12.7	7.7	0.8	100.0

Station: (6) 200E

SPEED	DIRECTION															Total Hours:	8758	
	N	NNNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
1-3	1.6	1.4	1.4	1.6	1.8	1.9	1.9	1.8	1.3	1.1	1.1	1.3	1.7	1.9	2.1	1.8	0.0	25.8
4-7	1.2	0.9	0.6	0.6	1.2	2.0	3.7	3.0	1.6	1.2	1.5	2.8	5.1	6.4	4.4	2.0	0.0	38.1
8-12	0.8	0.6	0.3	0.1	0.3	0.5	0.7	0.8	0.6	0.5	0.7	1.9	4.7	7.8	2.4	0.6	0.0	23.2
13-18	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.5	1.5	1.1	3.3	1.1	0.1	0.0	8.7
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.6	0.2	0.8	0.6	0.0	0.0	2.8
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.3	0.1	0.0	0.0	0.8
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	3.9	3.0	2.4	2.3	3.3	4.4	6.3	5.8	3.7	3.2	4.4	8.4	13.0	20.4	10.5	4.5	0.5	100.0

Station: (7) 200W

SPEED	DIRECTION															Total Hours:	8766	
	N	NNNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9
1-3	2.3	1.9	1.8	1.8	1.9	2.1	2.5	2.1	1.7	1.4	1.7	2.0	3.1	4.1	4.2	2.8	0.0	37.2
4-7	3.0	1.6	1.1	1.0	1.2	1.9	2.1	1.2	0.6	0.6	1.1	1.8	3.1	6.4	5.0	3.1	0.0	34.9
8-12	1.0	0.4	0.2	0.1	0.1	0.3	0.5	0.1	0.2	0.6	0.8	1.5	2.4	3.4	2.9	1.6	0.0	16.1
13-18	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.3	0.8	1.6	1.0	0.8	1.6	0.3	0.0	6.9
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.6	0.2	0.1	0.8	0.1	0.0	2.4
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.0	0.1	0.0	0.0	0.5
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	6.4	4.0	3.2	2.9	3.3	4.3	5.2	3.4	2.5	3.1	4.9	7.7	9.9	14.8	14.7	7.8	1.9	100.0

Station: (8) BVLY

SPEED	DIRECTION															Total Hours:	8740	
	N	NNNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
1-3	3.5	2.5	1.9	1.9	2.2	2.2	2.5	2.5	2.3	1.5	1.3	1.3	1.7	2.0	2.8	3.0	0.0	35.0
4-7	8.9	2.8	0.4	0.3	1.7	3.5	1.8	0.9	1.0	0.6	0.5	0.7	1.9	3.4	6.0	7.9	0.0	42.4
8-12	3.7	1.0	0.1	0.0	0.1	0.3	0.1	0.1	0.2	0.3	0.4	0.5	0.9	4.0	3.3	0.7	0.0	15.7
13-18	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.2	0.3	2.1	1.2	0.0	0.0	4.8
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.4	0.2	0.0	0.0	1.0
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	16.2	6.4	2.4	2.2	4.0	6.0	4.5	3.5	3.6	2.8	2.9	2.8	4.8	11.9	13.5	11.5	1.0	100.0

Table B.1. (contd)**Station: (9) FFTF**

Begin: 1/2004 End: 12/2004 Total Hours: 8751

SPEED	DIRECTION															TOTAL		
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
1-3	1.3	1.3	1.0	1.0	1.2	1.0	1.2	1.1	1.1	1.3	1.1	0.9	1.2	1.5	1.4	0.0	18.9	
4-7	2.6	2.5	1.9	1.3	1.1	1.3	2.7	3.9	4.6	3.9	2.1	1.2	1.0	1.8	3.0	3.0	0.0	38.0
8-12	1.5	1.3	0.6	0.2	0.1	0.3	1.2	3.6	4.4	4.3	1.4	0.8	0.6	1.2	3.0	3.2	0.0	27.7
13-18	0.3	0.3	0.2	0.0	0.0	0.0	0.2	0.4	1.0	3.0	1.8	0.7	0.6	0.5	1.4	0.5	0.0	10.9
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	1.0	0.4	0.2	0.4	0.5	0.1	0.0	0.0	3.2
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.7
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	5.8	5.4	3.7	2.5	2.4	2.6	5.2	9.2	11.2	12.8	7.8	4.5	3.4	5.2	9.5	8.3	0.4	100.0

Station: (10) YAKB

Begin: 1/2004 End: 12/2004 Total Hours: 8757

SPEED	DIRECTION															TOTAL		
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
1-3	1.8	1.7	1.5	1.2	0.9	0.9	1.3	1.3	1.4	1.4	1.8	2.0	2.1	1.5	1.5	0.0	23.4	
4-7	3.9	3.4	1.7	1.0	0.9	1.0	1.6	1.4	0.9	0.8	1.2	3.6	7.7	4.3	3.2	3.2	0.0	39.7
8-12	1.2	0.5	0.2	0.1	0.2	0.2	0.3	0.1	0.2	0.6	1.4	2.9	3.9	2.6	4.8	3.5	0.0	22.8
13-18	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.1	1.6	0.7	1.2	3.2	1.0	0.0	9.6
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.5	0.1	0.3	1.6	0.1	0.0	3.2
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.0	0.0	0.7
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	7.0	5.7	3.5	2.3	1.9	2.1	3.2	2.8	2.5	3.2	5.6	10.7	14.5	10.6	14.5	9.3	0.6	100.0

Station: (11) 300A

Begin: 1/2004 End: 12/2004 Total Hours: 8753

SPEED	DIRECTION															TOTAL		
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
1-3	1.5	1.0	0.7	0.9	0.9	1.6	1.7	1.9	1.8	1.6	1.2	1.0	1.2	1.3	1.9	2.0	0.0	22.1
4-7	3.1	1.4	1.2	0.9	1.5	5.0	7.8	3.9	3.1	2.6	2.0	0.9	0.7	0.8	2.1	3.7	0.0	40.8
8-12	2.5	1.9	0.7	0.2	0.3	1.7	1.7	0.8	1.7	3.3	3.5	1.7	0.4	0.3	0.9	2.3	0.0	24.0
13-18	0.4	0.3	0.1	0.1	0.0	0.1	0.1	0.4	1.5	2.0	1.2	0.4	0.2	1.1	1.0	0.0	0.0	8.9
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.8	0.6	0.2	0.1	0.3	0.1	0.0	2.7
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.7
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	7.5	4.6	2.8	2.1	2.8	8.4	11.3	6.7	7.0	9.5	9.8	5.6	3.0	2.7	6.3	9.0	0.8	100.0

Station: (12) WYEB

Begin: 1/2004 End: 12/2004 Total Hours: 8756

SPEED	DIRECTION															TOTAL		
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
1-3	1.6	1.6	1.5	1.4	1.5	1.7	1.8	1.7	1.7	1.4	1.3	1.2	1.2	1.2	1.5	1.6	0.0	23.9
4-7	2.6	1.6	1.2	1.4	2.3	2.5	3.5	4.9	4.8	2.9	1.7	1.5	1.8	2.5	3.6	3.3	0.0	42.3
8-12	1.3	0.7	0.3	0.2	0.2	0.3	0.9	2.0	3.1	1.7	0.8	1.0	1.3	3.8	3.5	1.4	0.0	22.3
13-18	0.3	0.2	0.1	0.0	0.0	0.1	0.2	0.8	1.2	0.8	0.7	0.7	1.1	1.3	0.2	0.0	0.0	7.9
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.4	0.4	0.3	0.5	0.0	0.0	0.0	2.5
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.5
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	5.9	4.0	3.1	3.1	4.0	4.5	6.2	8.9	10.4	7.6	5.3	4.9	5.5	8.9	10.6	6.5	0.5	100.0

Table B.1. (contd)**Station: (13) 100N**

SPEED	DIRECTION															Total Hours:	8734	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
1-3	2.3	1.7	2.2	3.2	3.8	3.8	3.0	2.3	1.7	1.7	2.0	2.5	3.0	3.5	3.0	2.6	0.0	42.1
4-7	1.7	1.4	1.5	2.0	3.0	2.8	2.6	1.3	0.9	1.0	2.0	3.7	4.5	3.1	2.1	1.5	0.0	35.2
8-12	0.7	0.9	0.4	0.1	0.2	0.3	0.9	0.4	0.3	0.7	1.2	1.8	2.6	1.7	0.6	0.3	0.0	13.0
13-18	0.3	0.5	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.3	0.8	0.8	0.8	1.6	0.5	0.1	0.0	6.3
19-24	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.6	0.3	0.0	0.0	1.7
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.5
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	5.1	4.6	4.3	5.4	7.0	7.0	6.5	4.0	2.9	3.8	6.4	9.0	11.2	10.7	6.6	4.5	1.1	100.0

Station: (14) WPPS

SPEED	DIRECTION															Total Hours:	8754	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
1-3	2.6	2.1	1.7	1.1	0.9	0.7	1.1	1.8	1.8	1.7	1.4	1.4	1.4	1.6	2.7	2.7	0.0	26.7
4-7	3.2	2.4	2.3	1.1	0.5	0.5	1.8	4.5	6.4	3.1	1.8	1.2	1.1	1.8	4.0	4.2	0.0	40.0
8-12	1.1	0.7	0.5	0.2	0.0	0.1	1.1	2.5	4.0	2.7	1.2	0.9	0.9	1.7	2.7	1.5	0.0	21.8
13-18	0.3	0.2	0.1	0.0	0.0	0.1	0.1	0.3	0.7	1.5	1.1	0.6	0.5	0.9	1.1	0.2	0.0	7.6
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.2	0.2	0.2	0.4	0.0	0.0	2.0
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.4
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	7.2	5.4	4.6	2.4	1.5	1.4	4.2	9.0	12.9	9.5	6.1	4.4	4.1	6.3	10.9	8.7	1.5	100.0

Station: (15) FRNK

SPEED	DIRECTION															Total Hours:	8758	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
1-3	1.3	1.1	1.0	1.2	1.3	1.2	1.5	1.7	1.4	1.0	1.2	1.2	1.3	1.6	1.9	1.5	0.0	21.4
4-7	4.0	2.9	2.0	1.1	1.1	3.0	6.8	4.7	4.0	3.5	2.3	1.2	1.3	1.8	4.9	5.8	0.0	50.5
8-12	1.2	0.4	0.3	0.2	0.1	0.7	1.8	1.6	2.5	4.9	3.0	0.9	0.5	0.5	1.3	2.2	0.0	22.2
13-18	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.4	1.9	0.9	0.3	0.3	0.1	0.3	0.0	0.0	4.6
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.8
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	6.6	4.4	3.5	2.6	2.6	4.9	10.2	8.1	8.3	11.5	7.8	3.7	3.5	4.0	8.4	9.5	0.4	100.0

Station: (16) GABL

SPEED	DIRECTION															Total Hours:	8758	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
1-3	0.9	0.9	1.0	0.8	0.7	0.7	0.8	1.0	1.2	1.1	0.9	0.8	0.9	0.8	0.8	0.8	0.0	14.0
4-7	2.1	2.4	1.6	0.9	0.7	1.0	1.5	2.2	4.0	2.8	1.7	1.5	1.8	1.7	2.2	2.1	0.0	30.3
8-12	1.7	1.9	1.2	0.3	0.3	0.4	0.9	2.2	3.0	1.5	1.5	1.3	2.1	1.9	2.7	1.7	0.0	24.7
13-18	1.5	1.4	0.5	0.0	0.1	0.1	0.4	0.9	1.4	0.8	1.2	1.6	1.8	2.9	2.3	0.9	0.0	17.8
19-24	0.4	0.5	0.2	0.0	0.0	0.0	0.0	0.2	0.4	0.4	0.9	0.8	0.9	2.3	1.4	0.1	0.0	8.6
25-31	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.5	0.3	0.2	1.0	0.3	0.0	0.0	3.2
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.9
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
TOTAL	6.7	7.4	4.5	2.1	1.9	2.2	3.6	6.5	10.2	7.1	7.1	6.5	7.7	10.9	9.6	5.7	0.3	100.0

Table B.1. (contd)**Station: (17) RING**

Begin: 1/2004 End: 12/2004 Total Hours: 8758

SPEED	DIRECTION															TOTAL		
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
1-3	1.7	3.2	6.6	2.8	2.0	1.4	1.1	1.0	1.0	1.2	1.6	2.0	1.9	1.3	1.2	1.1	0.0	31.0
4-7	1.5	1.9	14.2	4.2	1.3	1.1	1.5	1.9	1.7	2.4	2.1	2.5	1.7	1.0	0.9	1.6	0.0	41.5
8-12	1.5	0.7	1.1	0.5	0.1	0.2	0.2	0.8	1.5	3.4	2.1	1.2	1.5	1.6	0.8	1.4	0.0	18.7
13-18	0.5	0.2	0.2	0.0	0.0	0.0	0.0	0.1	0.2	1.1	1.1	0.5	0.8	1.5	0.2	0.3	0.0	6.8
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.2	0.4	0.0	0.0	0.0	1.1
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	5.3	6.0	22.0	7.5	3.4	2.7	2.8	3.8	4.4	8.1	7.3	6.5	6.2	5.8	3.1	4.4	0.7	100.0

Station: (18) RICH

Begin: 1/2004 End: 12/2004 Total Hours: 8758

SPEED	DIRECTION															TOTAL		
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
1-3	1.7	0.9	0.9	1.2	1.8	3.1	3.6	3.2	2.6	2.2	2.5	2.4	2.2	2.6	2.9	2.1	0.0	36.0
4-7	2.5	1.1	0.9	1.0	1.7	3.2	3.7	1.5	1.7	3.2	4.2	3.3	2.0	1.8	2.6	2.5	0.0	36.8
8-12	1.4	0.8	0.4	0.1	0.1	0.2	0.3	0.1	0.7	2.5	3.3	2.5	1.6	0.8	1.1	1.2	0.0	17.1
13-18	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.1	2.0	0.9	0.9	0.4	0.7	0.8	0.0	7.5
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.2	0.2	0.1	0.1	0.1	0.0	1.4
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.3
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	6.0	2.9	2.2	2.4	3.6	6.4	7.6	4.8	5.2	9.1	12.5	9.4	7.0	5.8	7.4	6.8	1.0	100.0

Station: (19) PFP

Begin: 1/2004 End: 12/2004 Total Hours: 8758

SPEED	DIRECTION															TOTAL		
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5
1-3	3.5	3.5	2.4	1.4	1.8	2.0	2.5	2.2	1.9	1.9	2.4	3.3	4.6	5.5	3.8	3.1	0.0	45.8
4-7	3.4	2.1	1.0	0.7	0.9	1.5	2.1	0.8	0.6	0.7	0.9	2.0	4.5	6.4	4.7	3.5	0.0	35.8
8-12	0.4	0.3	0.1	0.1	0.2	0.2	0.3	0.1	0.1	0.6	1.0	2.0	1.4	1.3	2.3	0.8	0.0	11.3
13-18	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.8	1.1	0.3	0.1	0.9	0.1	0.0	4.0
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.1	0.0	0.0	0.0	0.0	0.6
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	7.3	6.1	3.6	2.1	2.9	3.8	4.9	3.2	2.6	3.6	5.4	8.8	11.0	13.3	11.7	7.5	2.5	100.0

Station: (20) RMTN

Begin: 1/2004 End: 12/2004 Total Hours: 8736

SPEED	DIRECTION															TOTAL		
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1-3	0.4	0.4	0.4	0.2	0.3	0.2	0.2	0.3	0.3	0.7	0.6	0.4	0.4	0.3	0.4	0.5	0.0	6.1
4-7	1.5	1.3	1.1	0.8	0.5	0.6	0.5	0.5	0.8	1.4	1.7	1.4	0.9	0.5	0.6	0.9	0.0	14.9
8-12	2.3	2.7	2.1	0.6	0.3	0.2	0.1	0.3	0.7	1.7	3.4	2.3	1.2	0.7	0.8	1.1	0.0	20.2
13-18	2.0	3.3	1.3	0.2	0.0	0.1	0.2	0.5	2.0	5.3	2.8	1.5	0.8	0.7	0.9	0.0	0.0	21.6
19-24	1.3	2.6	0.7	0.0	0.0	0.0	0.0	0.2	0.9	4.5	2.9	1.2	0.5	0.3	0.3	0.0	0.0	15.5
25-31	0.6	2.2	0.5	0.0	0.0	0.0	0.0	0.0	0.1	4.1	2.6	0.6	0.1	0.0	0.0	0.0	0.0	10.9
32-38	0.1	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.2	2.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	5.6
39-46	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.1	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	3.4
> 46	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.7
TOTAL	8.1	13.9	6.4	1.7	1.2	1.0	0.9	1.3	2.5	7.2	25.2	15.3	5.9	2.9	2.9	3.8	0.0	100.0

Table B.1. (contd)**Station: (21) HMS**

SPEED	DIRECTION															Total Hours:	8766	
	N	NN	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
1-3	2.3	1.9	2.1	1.6	1.4	1.4	1.7	1.8	1.6	1.3	1.6	1.8	1.9	2.1	2.1	2.6	0.0	29.1
4-7	2.1	1.3	0.9	1.0	1.4	1.7	2.3	2.2	1.4	1.5	2.8	5.1	6.5	7.5	6.3	3.5	0.0	47.5
8-12	0.4	0.3	0.2	0.2	0.2	0.1	0.2	0.3	0.6	1.2	2.4	2.5	3.4	3.4	0.4	0.0	0.0	15.9
13-18	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.5	0.8	1.0	0.3	1.0	1.7	0.1	0.0	0.0	5.8
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.1	0.1	0.3	0.0	0.0	0.0	1.0
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	4.8	3.6	3.2	2.8	2.9	3.3	4.1	4.2	3.3	3.9	6.6	10.7	11.3	14.0	13.9	6.5	0.5	100.0

Station: (22) PASC

SPEED	DIRECTION															Total Hours:	8758	
	N	NN	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
1-3	5.4	2.9	2.5	2.3	2.8	3.8	2.8	1.9	1.8	1.3	1.3	1.5	1.8	2.3	3.7	7.3	0.0	45.4
4-7	2.1	0.7	0.5	0.4	0.5	1.7	1.8	1.6	1.6	3.3	4.1	2.5	1.8	1.9	3.3	4.3	0.0	32.0
8-12	0.5	0.2	0.2	0.0	0.0	0.1	0.2	0.2	0.4	2.5	5.3	2.1	0.8	0.4	1.0	0.9	0.0	14.8
13-18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.2	1.3	0.5	0.1	0.1	0.0	0.0	0.0	5.6
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.7
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	8.1	3.9	3.2	2.7	3.3	5.6	4.8	3.7	3.8	7.4	14.3	7.6	5.1	4.7	8.1	12.5	1.3	100.0

Station: (23) GABW

SPEED	DIRECTION															Total Hours:	8758	
	N	NN	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
1-3	1.6	1.4	1.2	1.5	1.6	1.8	2.6	3.5	2.5	1.7	1.7	3.0	4.0	3.3	2.2	0.0	35.2	
4-7	1.4	0.8	0.6	0.8	1.1	1.0	4.4	6.1	1.8	0.9	1.2	1.7	3.1	7.6	3.2	1.8	0.0	37.5
8-12	0.6	0.3	0.2	0.2	0.2	0.3	1.1	1.0	0.2	0.7	0.9	1.5	2.7	5.0	1.3	0.3	0.0	16.4
13-18	0.1	0.2	0.1	0.0	0.0	0.1	0.0	0.1	0.3	0.6	0.9	1.0	3.3	0.5	0.1	0.0	0.0	7.3
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.2	0.9	0.1	0.0	0.0	0.0	1.9
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.3
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	3.6	2.6	2.1	2.5	2.9	3.0	8.2	10.7	4.6	3.7	4.6	6.3	10.0	20.9	8.5	4.4	1.3	100.0

Station: (24) 100F

SPEED	DIRECTION															Total Hours:	8754	
	N	NN	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
1-3	2.0	1.4	1.1	1.2	1.4	2.0	3.1	3.3	2.7	1.9	1.8	2.4	3.4	4.1	3.6	2.7	0.0	38.1
4-7	1.6	0.8	0.7	0.8	1.0	1.7	5.8	6.8	1.7	0.6	1.1	1.4	3.1	3.3	3.1	2.1	0.0	35.6
8-12	1.2	0.5	0.3	0.2	0.2	0.6	3.0	2.2	0.4	0.4	0.7	1.5	2.4	1.9	0.7	0.8	0.0	16.9
13-18	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.3	0.5	0.8	0.8	1.9	0.4	0.1	0.0	0.0	6.2
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.2	0.6	0.1	0.0	0.0	0.0	1.6
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.4
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	5.1	2.8	2.2	2.4	2.7	4.3	12.1	12.5	5.0	3.4	4.5	6.6	9.9	11.8	8.0	5.7	1.1	100.0

Table B.1. (contd)**Station: (25) VERN**

SPEED	DIRECTION															Total Hours:	8758	
	N	NNNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
1-3	1.1	1.1	1.2	1.7	2.5	2.4	2.2	1.7	1.2	1.0	1.4	2.5	2.6	1.7	1.3	1.1	0.0	26.9
4-7	0.7	1.4	2.2	2.8	3.7	2.7	1.3	0.6	0.4	0.4	0.6	4.3	8.0	4.6	1.8	1.0	0.0	36.5
8-12	0.6	0.3	0.3	0.5	0.2	0.2	0.2	0.1	0.2	0.5	0.8	1.8	7.0	7.5	2.4	0.6	0.0	23.2
13-18	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.4	2.3	4.5	1.2	0.1	0.0	9.7
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.3	1.2	0.4	0.0	0.0	2.5
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.2	0.1	0.0	0.0	0.5
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	2.6	3.0	3.8	5.1	6.5	5.3	3.7	2.4	1.9	2.2	3.9	9.4	20.2	19.7	7.2	2.8	0.6	100.0

Station: (26) BENT

SPEED	DIRECTION															Total Hours:	8758	
	N	NNNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
1-3	1.0	0.8	0.8	0.8	0.9	0.7	0.6	0.5	0.5	0.8	1.3	2.3	3.0	2.2	1.6	1.1	0.0	19.0
4-7	1.0	1.1	1.6	2.1	2.9	1.5	0.4	0.2	0.5	1.2	5.7	11.9	14.6	6.6	2.7	1.9	0.0	55.9
8-12	0.5	0.6	0.9	0.9	1.1	0.3	0.0	0.0	0.1	0.4	3.4	5.5	3.5	1.4	1.0	0.7	0.0	20.4
13-18	0.3	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2	0.7	0.3	0.1	0.1	0.1	0.0	3.7
19-24	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.7
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	2.9	3.1	3.5	3.8	5.0	2.5	1.1	0.7	1.1	2.8	11.8	20.4	21.4	10.5	5.4	3.8	0.3	100.0

Station: (27) VSTA

SPEED	DIRECTION															Total Hours:	8758	
	N	NNNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
1-3	2.8	2.5	2.3	1.7	1.8	1.9	2.7	2.1	2.1	3.0	3.6	2.9	2.2	1.8	1.7	2.1	0.0	37.1
4-7	2.1	1.8	1.4	0.9	0.6	1.4	1.2	1.0	2.0	4.2	6.2	3.7	1.8	2.1	3.0	3.1	0.0	36.5
8-12	0.3	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.6	4.3	5.7	2.5	0.8	0.4	0.8	1.3	0.0	17.2
13-18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.4	4.4	0.9	0.3	0.1	0.0	0.0	0.0	7.4
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	0.1	0.1	0.0	0.0	0.0	0.0	1.0
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	5.2	4.3	3.7	2.6	2.4	3.5	4.0	3.2	4.8	12.9	20.7	10.1	5.2	4.5	5.6	6.6	0.8	100.0

Station: (28) SURF

SPEED	DIRECTION															Total Hours:	8718	
	N	NNNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
1-3	0.3	0.6	1.2	1.3	1.2	1.0	0.8	0.8	1.3	2.4	4.2	4.0	1.9	0.9	0.4	0.3	0.0	22.6
4-7	0.2	0.3	2.7	4.8	2.1	0.6	0.3	0.5	0.3	0.8	4.2	5.8	1.6	0.1	0.0	0.1	0.0	24.4
8-12	0.1	0.5	1.7	2.8	0.6	0.0	0.0	0.0	0.0	0.1	4.1	10.3	3.5	0.3	0.0	0.0	0.0	24.1
13-18	0.2	0.4	0.3	0.4	0.2	0.0	0.0	0.0	0.0	0.0	2.0	8.8	5.4	0.4	0.0	0.0	0.0	18.1
19-24	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.8	3.6	0.3	0.0	0.0	0.0	0.0	8.1
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.1	0.1	0.0	0.0	0.0	2.1
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.3
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.9	2.0	6.0	9.2	4.1	1.7	1.1	1.2	1.6	3.3	14.8	33.4	17.3	2.1	0.5	0.4	0.4	100.0

Table B.1. (contd)**STATION: (29) 100K**

Begin: 1/2004 End: 12/2004 Total Hours: 8756

SPEED	DIRECTION																	TOTAL
	N	NN	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
1-3	2.5	2.0	2.0	2.3	2.5	2.5	2.5	2.5	2.1	1.9	2.2	3.0	4.1	3.6	3.4	2.4	0.0	41.6
4-7	1.5	1.3	0.7	1.1	1.3	1.4	1.9	1.9	1.6	0.8	1.3	3.9	6.0	3.3	1.9	1.7	0.0	31.7
8-12	0.7	0.6	0.2	0.1	0.2	0.3	0.6	0.7	0.4	0.5	0.9	2.3	5.1	2.0	0.6	0.5	0.0	15.9
13-18	0.1	0.2	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.3	0.7	1.0	1.6	1.8	0.5	0.1	0.0	6.7
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.8	0.2	0.0	0.0	1.9
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.2	0.0	0.0	0.0	0.4
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	4.9	4.0	3.1	3.6	4.1	4.3	5.0	5.1	4.1	3.6	5.4	10.7	17.2	11.8	6.7	4.8	1.7	100.0

STATION: (30) HAMR

Begin: 1/2004 End: 12/2004 Total Hours: 8758

SPEED	DIRECTION																	TOTAL
	N	NN	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
1-3	1.2	1.5	1.1	0.9	0.8	1.7	2.1	2.5	2.5	1.7	1.6	1.2	1.6	1.5	1.4	2.0	0.0	25.3
4-7	3.2	1.9	1.1	0.7	0.9	2.4	5.1	3.9	3.4	3.8	3.7	2.6	1.6	1.4	2.9	3.0	0.0	41.8
8-12	2.3	0.9	0.2	0.1	0.3	0.3	0.4	0.4	1.0	2.8	6.5	2.4	0.6	0.5	1.4	1.9	0.0	22.0
13-18	0.5	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.1	1.1	2.2	2.4	0.3	0.1	1.0	0.6	0.0	8.7
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.3	0.2	0.0	0.3	0.0	0.0	1.6
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.3
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
> 46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	7.3	4.5	2.5	1.7	2.0	4.6	7.6	6.8	7.0	9.6	14.6	8.9	4.4	3.5	7.1	7.5	0.3	100.0

Table B.2. Joint Frequency Distributions (%) for Hanford Meteorological Monitoring Network Wind Stations at 60 Meters, 2004

Tower: 100 Area (13)

SPEED	DIRECTION												Total Hours:				TOTAL	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
1-3	1.9	1.5	1.9	2.8	3.9	4.1	3.3	2.2	1.8	1.4	1.4	1.8	2.4	2.3	2.0	1.8	0.0	36.6
4-7	1.2	1.3	1.2	1.8	3.3	3.6	3.2	1.5	0.8	1.0	1.3	2.0	3.2	3.2	2.0	1.4	0.0	32.0
8-12	0.8	1.0	0.5	0.2	0.2	0.4	1.0	0.6	0.5	0.6	1.1	1.3	2.1	2.9	0.9	0.7	0.0	14.9
13-18	0.3	0.5	0.2	0.1	0.0	0.0	0.3	0.3	0.2	0.3	1.0	1.0	1.7	2.9	0.7	0.2	0.0	9.7
19-24	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.4	0.3	1.4	0.7	0.1	0.0	4.2
25-31	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.5	0.2	0.0	0.0	1.4
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.4
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
>46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	4.5	4.5	3.9	5.0	7.5	8.1	7.8	4.6	3.3	3.7	5.4	6.7	9.9	13.4	6.6	4.3	0.8	100.0

Tower: 200 Area (21)

SPEED	DIRECTION												Total Hours:				TOTAL	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
1-3	1.6	1.4	1.5	1.2	1.1	1.0	1.5	0.9	0.8	0.7	0.6	0.7	1.0	1.1	1.2	1.4	0.0	17.8
4-7	2.3	1.5	1.5	1.2	1.6	1.7	2.0	1.5	0.9	0.7	1.3	1.5	2.5	3.6	4.0	3.2	0.0	31.0
8-12	1.0	0.7	0.3	0.3	0.4	0.3	0.4	0.6	0.5	0.7	1.3	2.0	3.7	5.9	4.6	1.5	0.0	24.1
13-18	0.2	0.2	0.1	0.0	0.1	0.0	0.1	0.2	0.2	0.5	1.4	2.1	2.2	5.8	3.5	0.3	0.0	17.0
19-24	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.5	1.0	0.8	0.3	2.4	1.2	0.0	0.0	6.6
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.4	0.3	0.1	0.9	0.4	0.0	0.0	2.6
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.4
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
>46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	5.1	3.8	3.4	2.8	3.3	3.0	3.9	3.3	2.7	3.5	6.3	7.5	9.8	19.6	15.0	6.5	0.4	100.0

Tower: 300 Area (11)

SPEED	DIRECTION												Total Hours:				TOTAL	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	
1-3	1.0	0.8	0.8	0.9	0.9	1.3	1.7	1.4	1.4	1.1	1.0	0.9	0.8	0.8	1.1	1.2	0.0	17.1
4-7	1.8	1.6	1.3	0.9	1.3	2.6	4.9	3.7	3.4	3.2	2.6	1.3	0.8	0.8	1.9	2.4	0.0	34.4
8-12	2.0	2.1	1.0	0.3	0.2	0.8	3.1	1.5	1.7	3.8	3.9	1.8	0.6	0.5	1.4	2.5	0.0	27.2
13-18	0.9	0.8	0.2	0.0	0.0	0.1	0.3	0.2	0.4	1.8	3.4	1.9	0.4	0.4	1.1	1.6	0.0	13.6
19-24	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.5	1.5	0.9	0.3	0.2	0.8	0.3	0.0	5.0
25-31	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.3	0.1	0.0	0.2	0.0	0.0	1.6
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.5
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
>46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	5.9	5.4	3.4	2.2	2.5	4.8	10.0	6.8	7.0	10.6	13.2	7.2	3.2	2.7	6.6	8.0	0.5	100.0

Tower: 400 Area (9)

SPEED	DIRECTION												Total Hours:				TOTAL	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	
1-3	1.1	1.0	0.9	0.9	1.0	1.0	1.0	1.2	1.1	0.9	0.8	0.7	0.8	0.7	0.8	1.0	0.0	15.0
4-7	2.1	1.9	1.8	1.1	1.0	1.1	2.2	2.7	3.1	2.8	1.6	1.2	1.2	1.5	2.3	2.4	0.0	29.9
8-12	2.0	1.5	0.8	0.2	0.1	0.3	1.5	2.7	3.7	3.5	2.1	0.8	0.7	1.3	2.6	2.7	0.0	26.6
13-18	0.7	0.4	0.2	0.0	0.0	0.1	0.5	0.8	1.6	3.8	2.2	1.0	0.6	1.2	3.3	1.9	0.0	18.3
19-24	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.2	1.3	1.5	0.6	0.5	0.8	1.7	0.3	0.0	7.1	
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.3	0.1	0.3	0.4	0.0	0.0	2.1	
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.6
39-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
>46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	5.9	4.8	3.8	2.3	2.2	2.4	5.3	7.6	9.8	12.7	9.0	4.6	3.9	5.9	11.1	8.4	0.2	100.0