

Appendix B

2003 Wind Climatology

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This appendix provides the 2003 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 A.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).

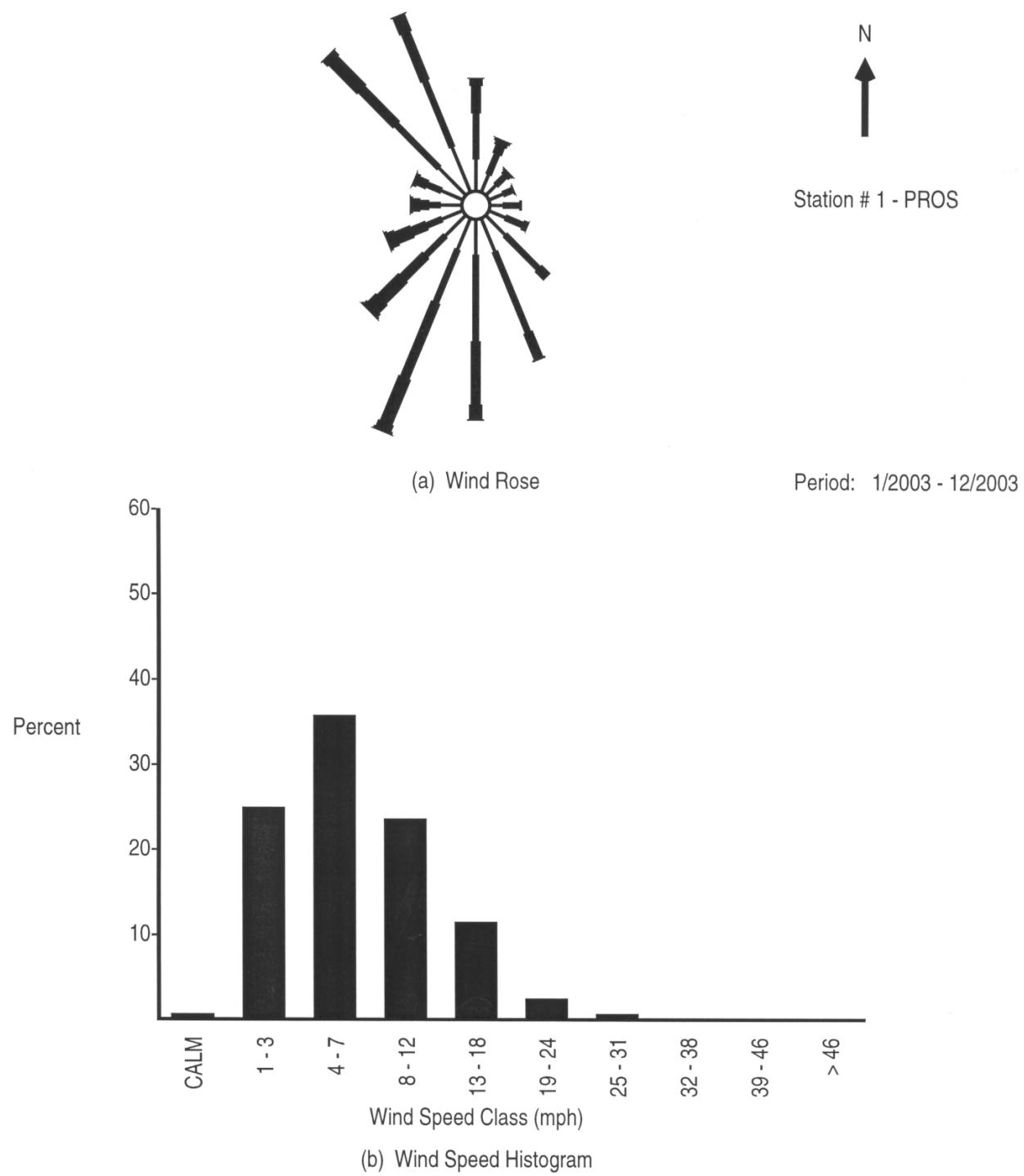
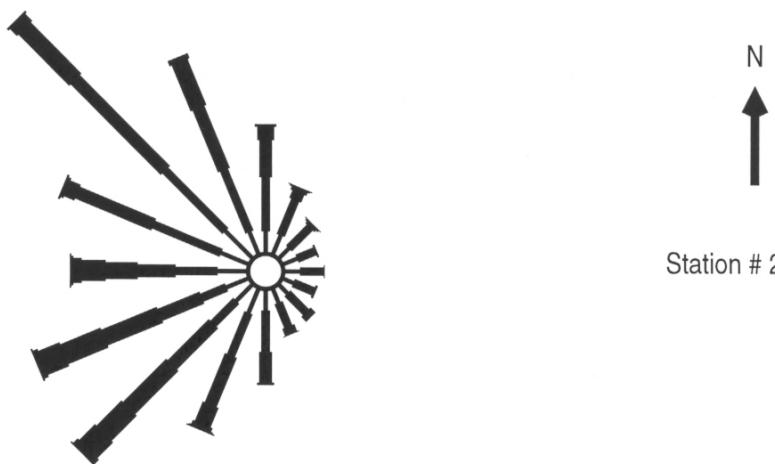


Figure B.1. Wind Rose and Wind Speed Histogram, 30 Feet



Station # 2 - EOC

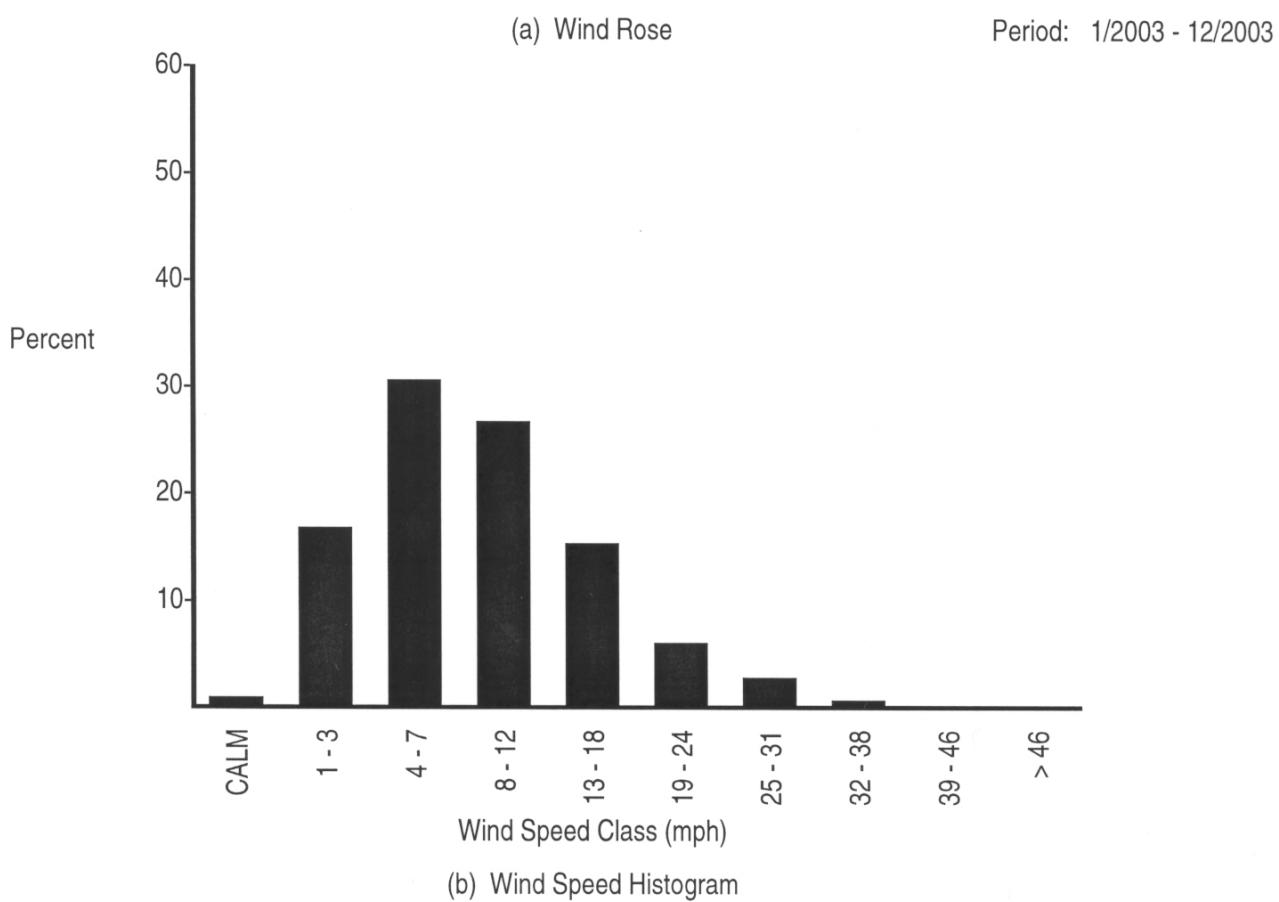


Figure B.1. (contd)

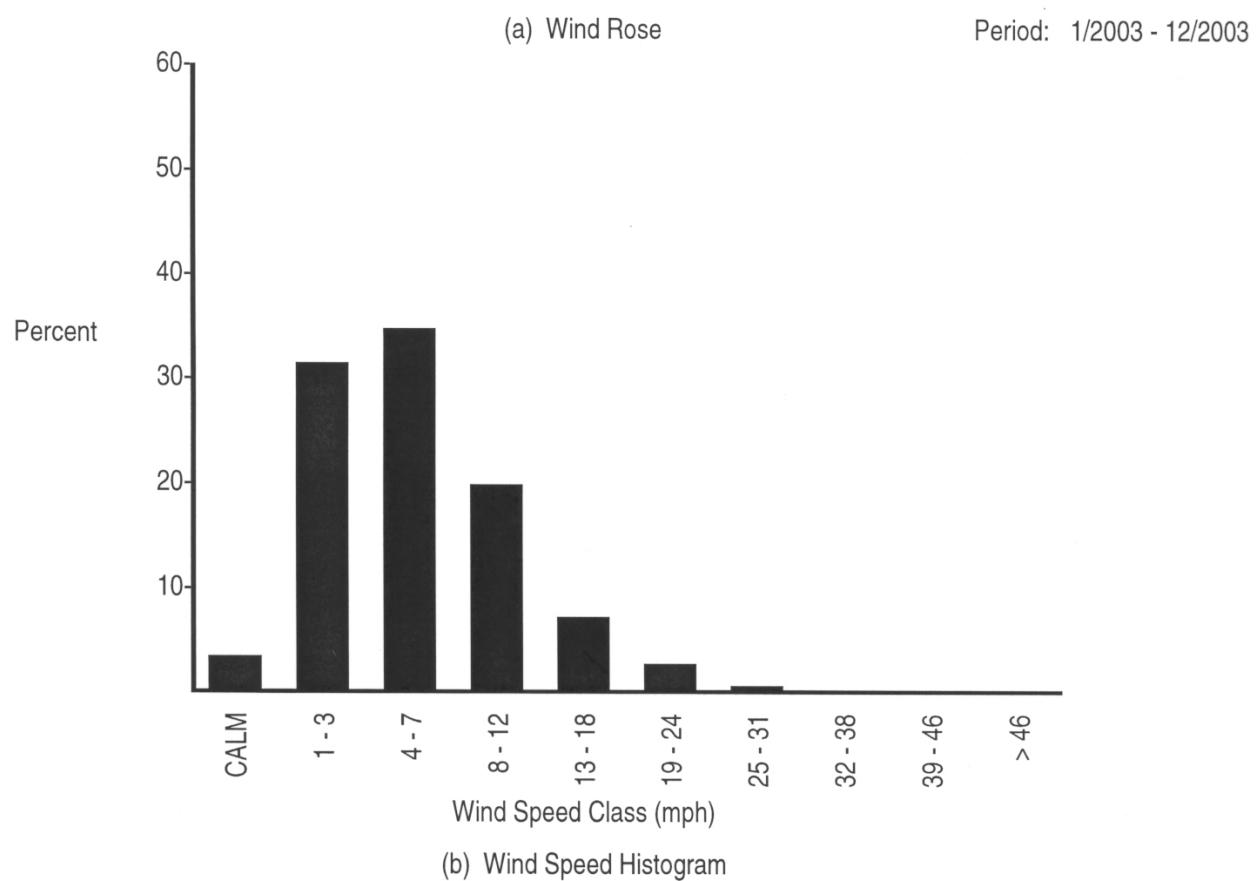


Figure B.1. (contd)

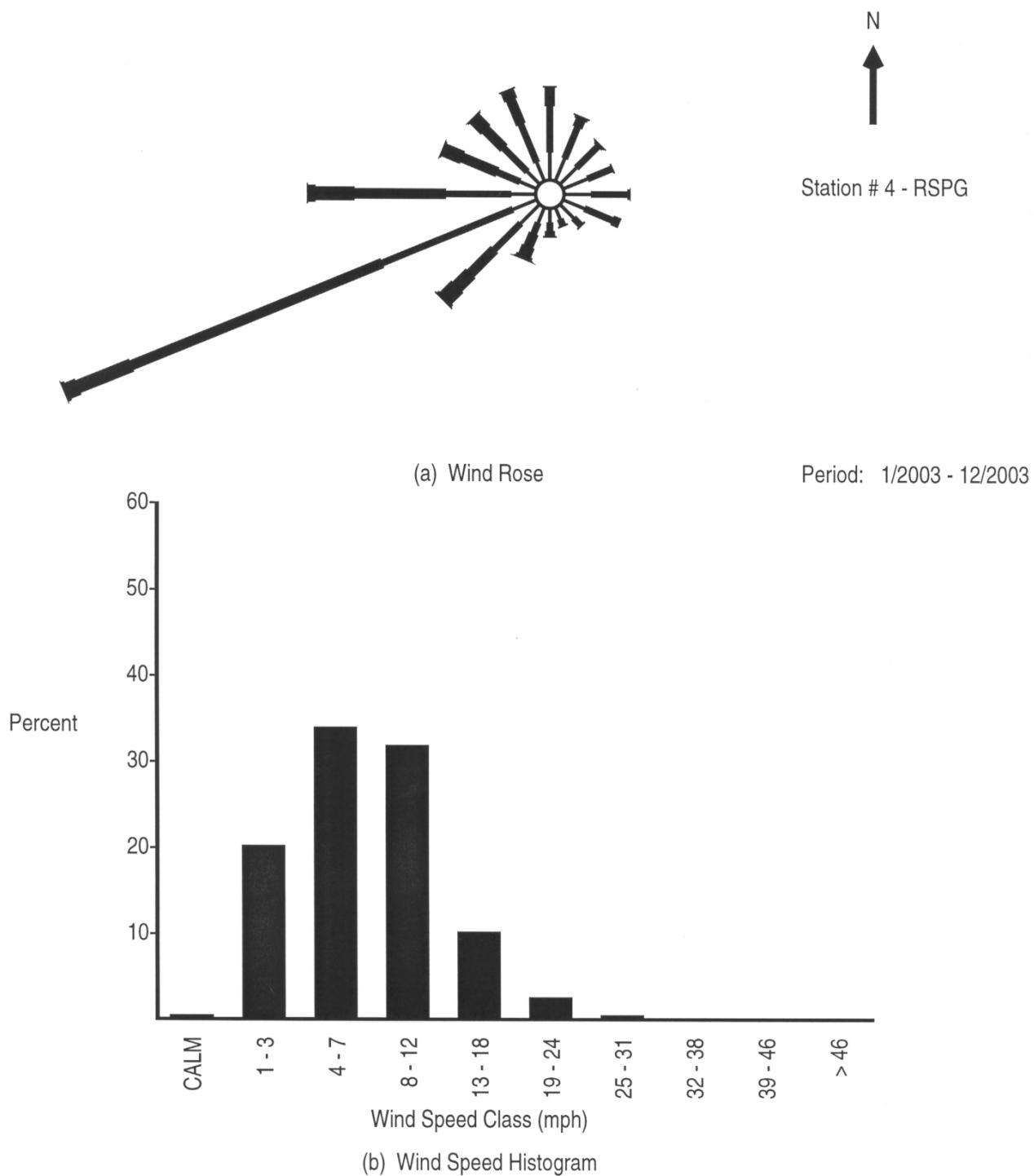


Figure B.1. (contd)

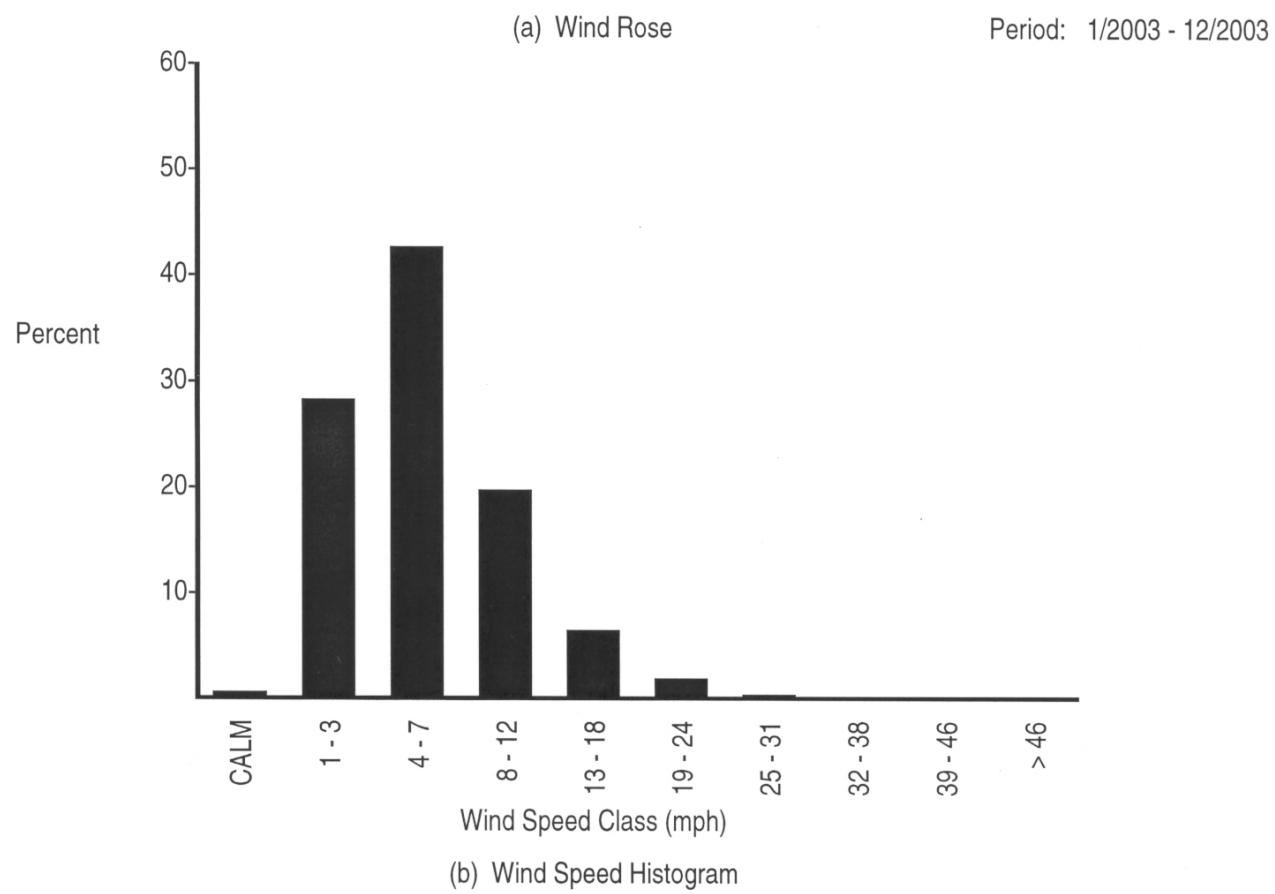
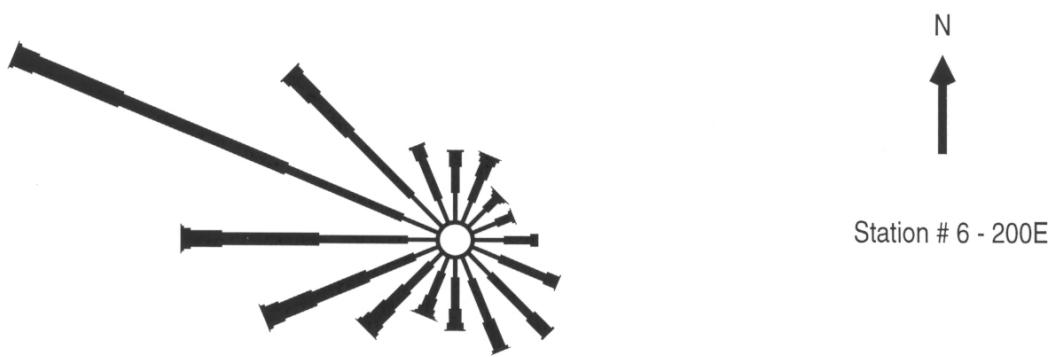
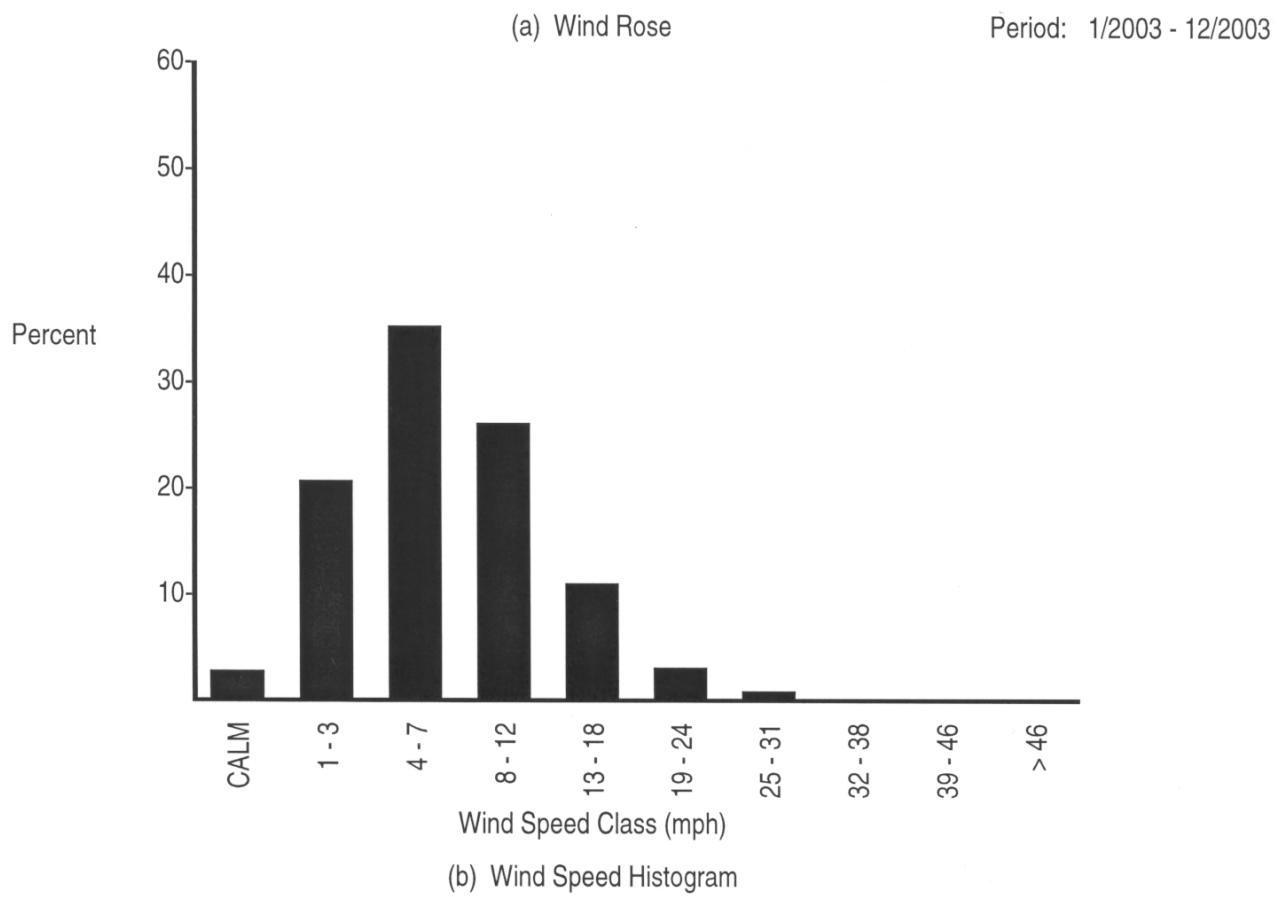


Figure B.1. (contd)



Station # 6 - 200E

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

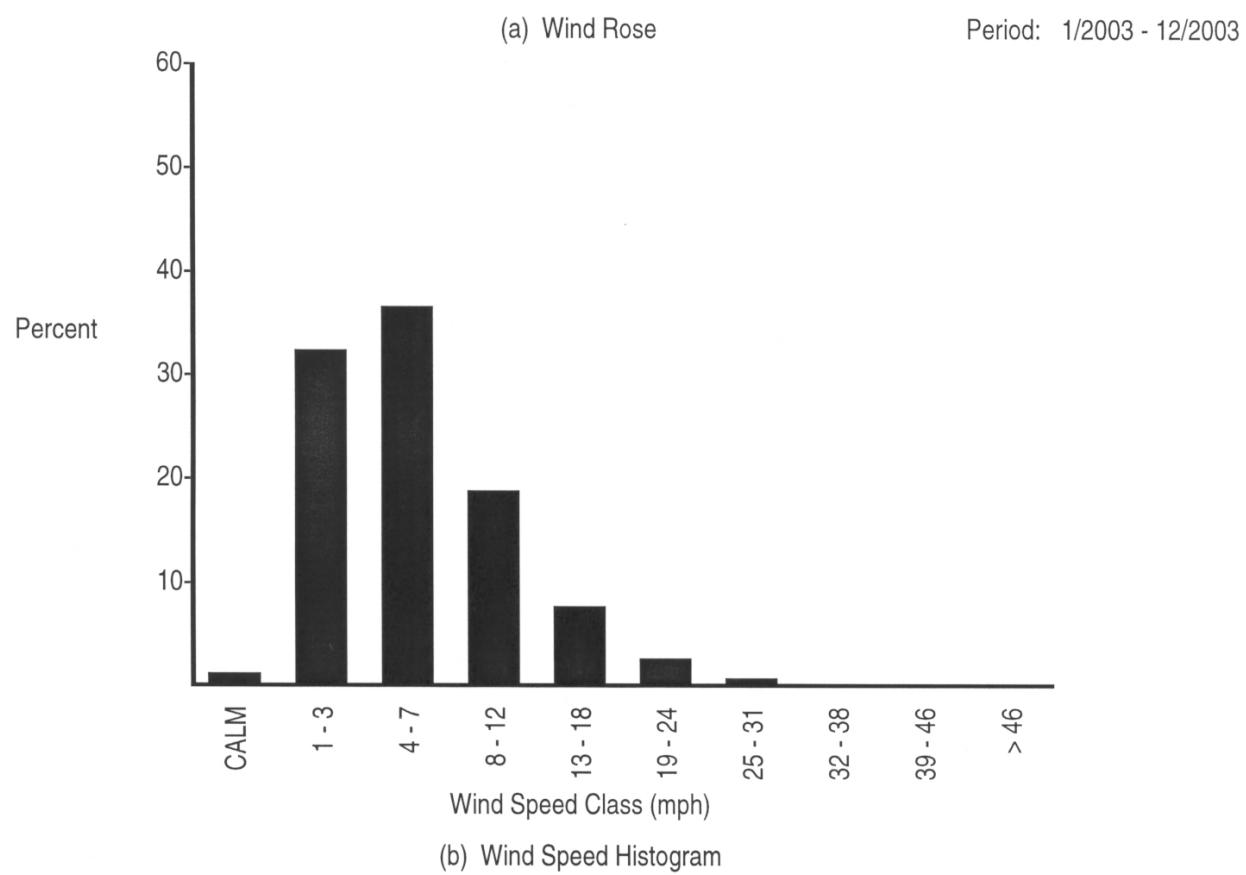
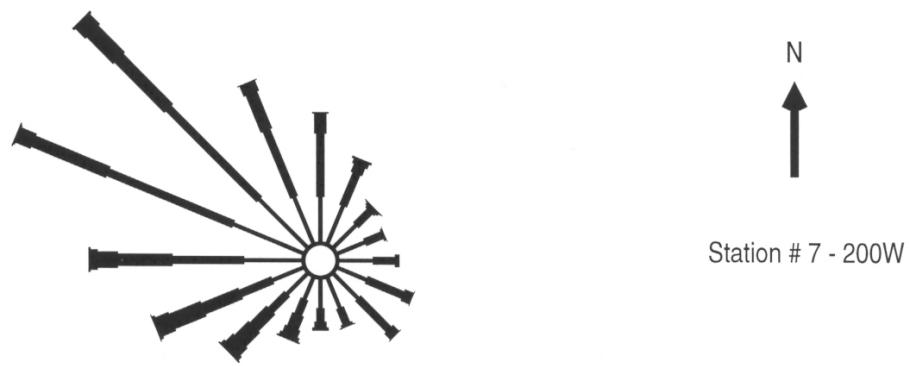


Figure B.1. (contd)

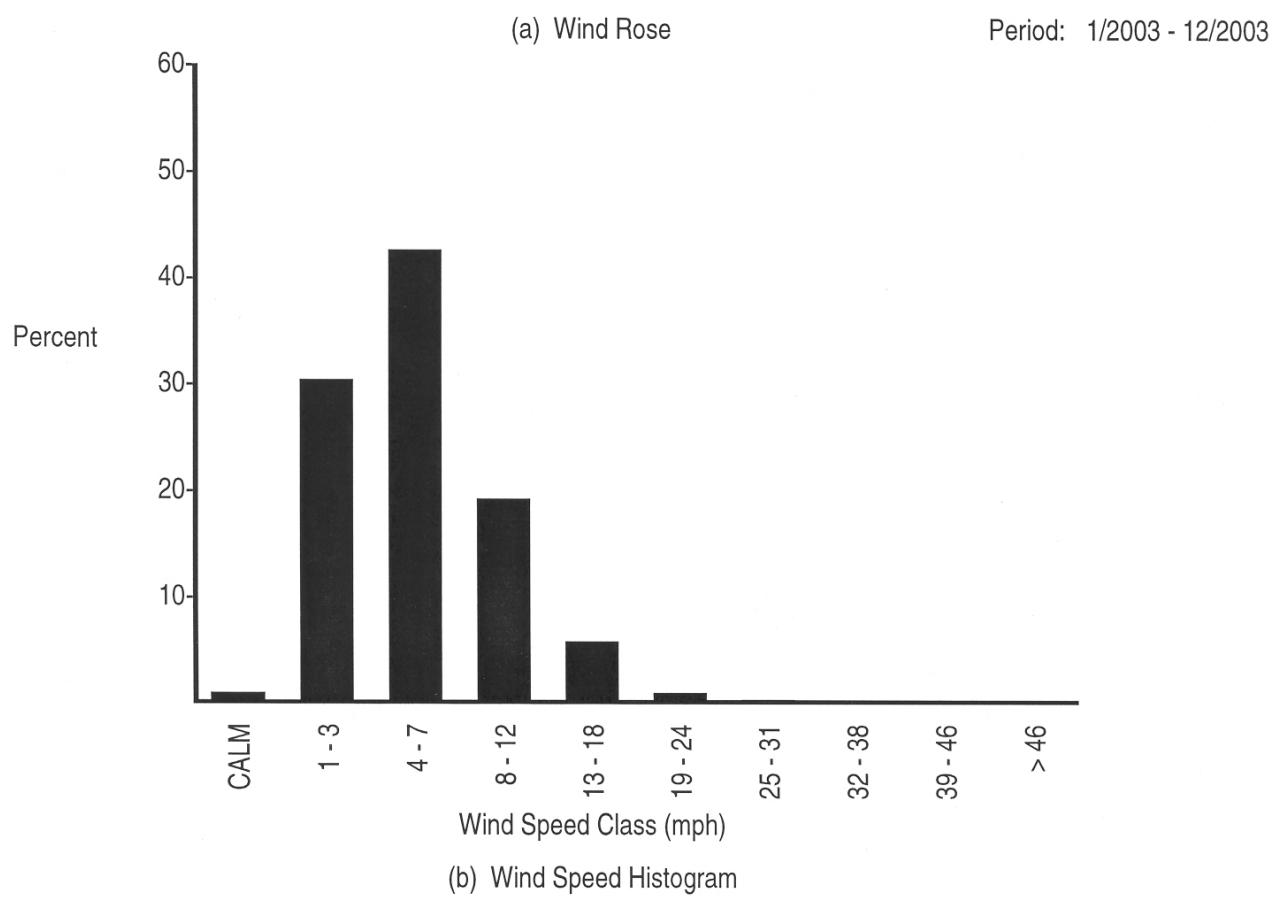
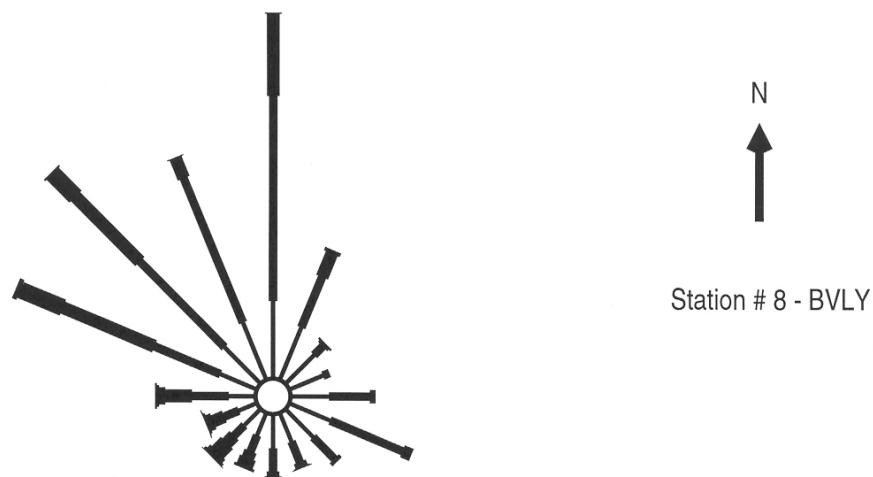
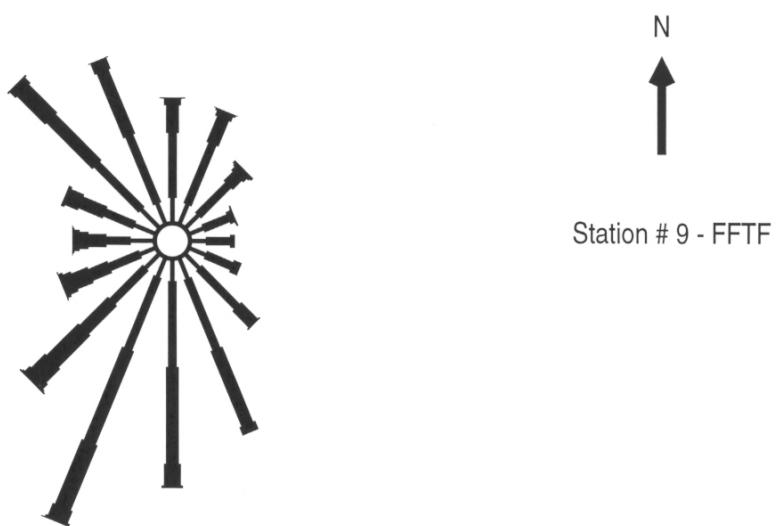
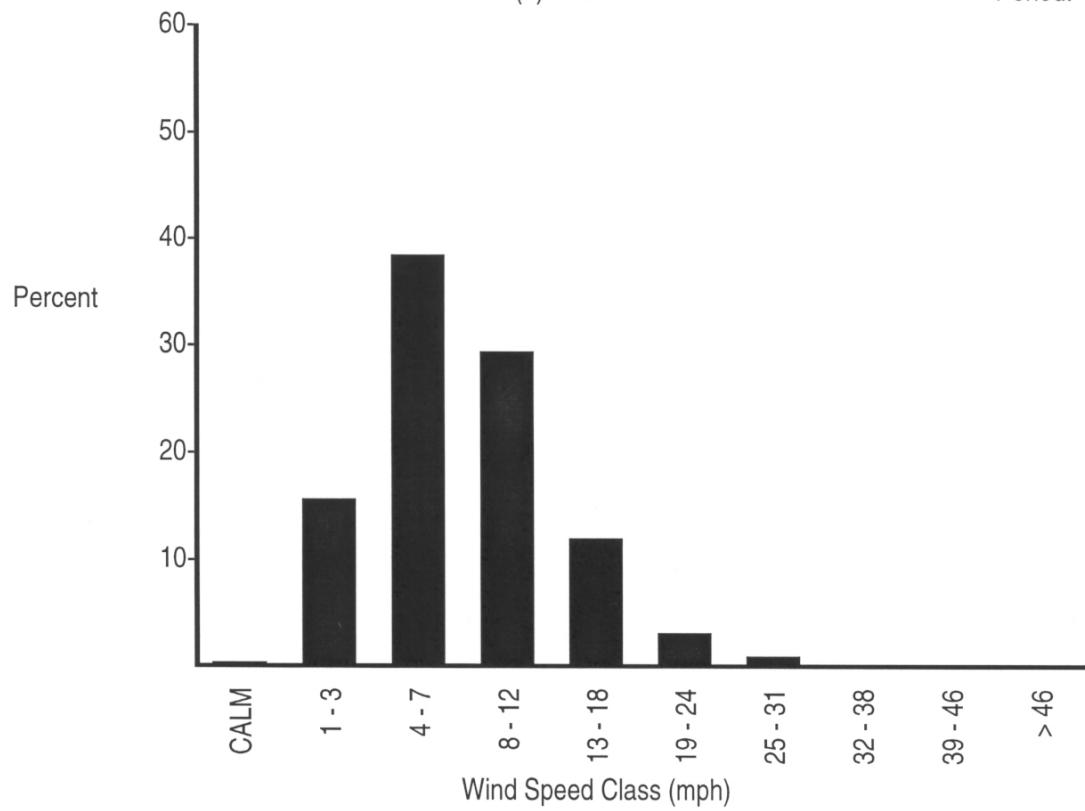


Figure B.1. (contd)



(a) Wind Rose

Period: 1/2003 - 12/2003



(b) Wind Speed Histogram

Figure B.1. (contd)

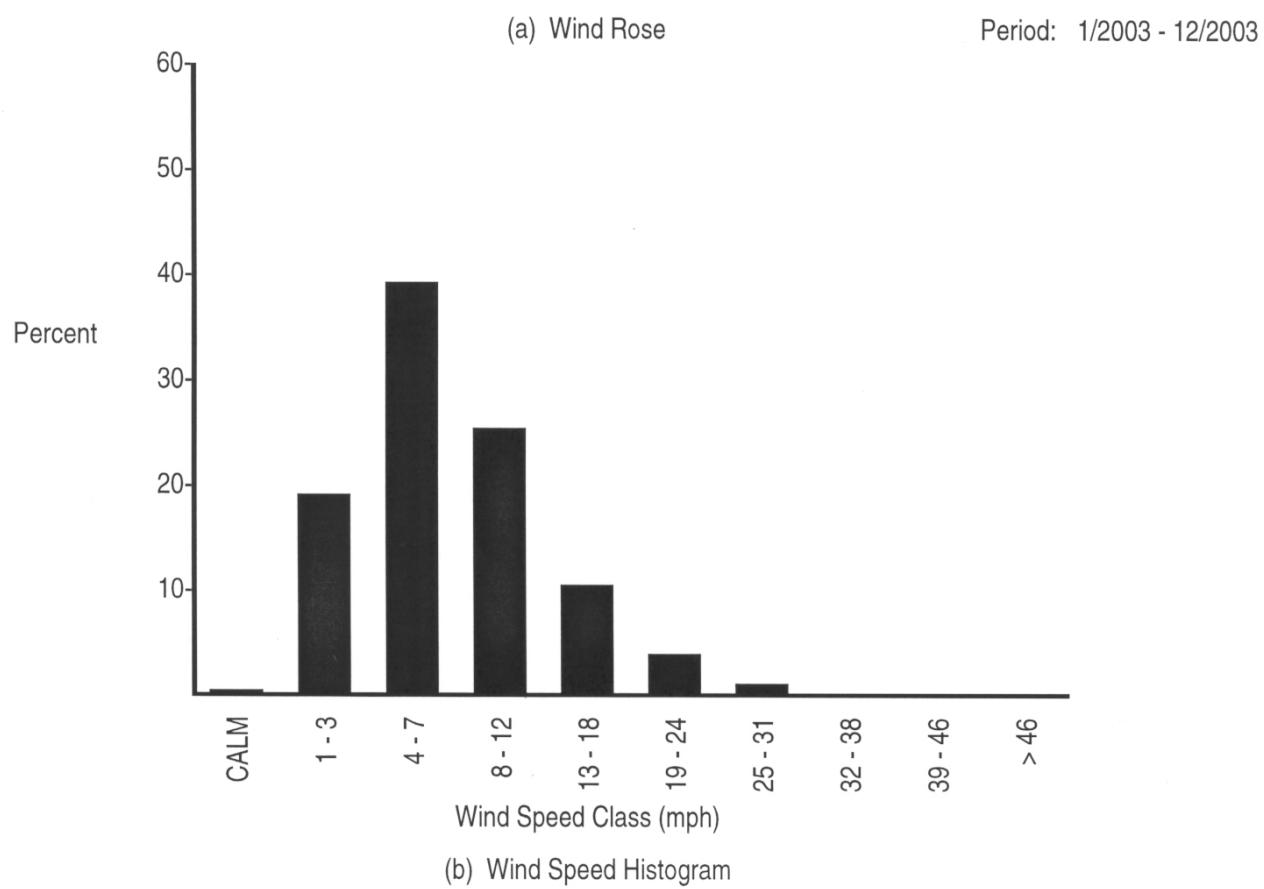
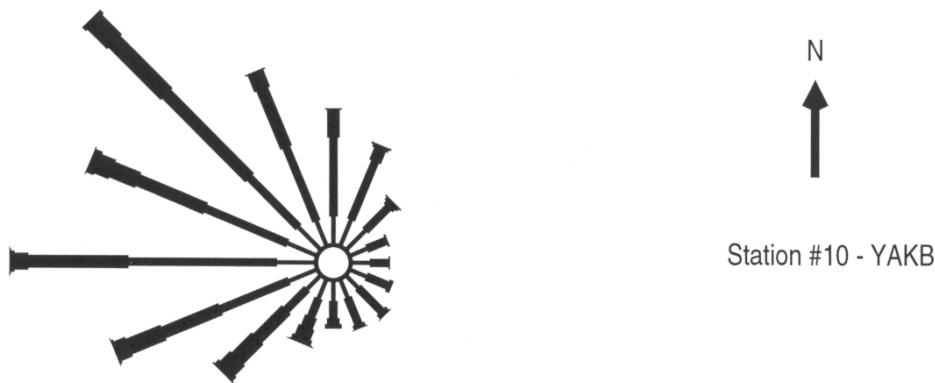
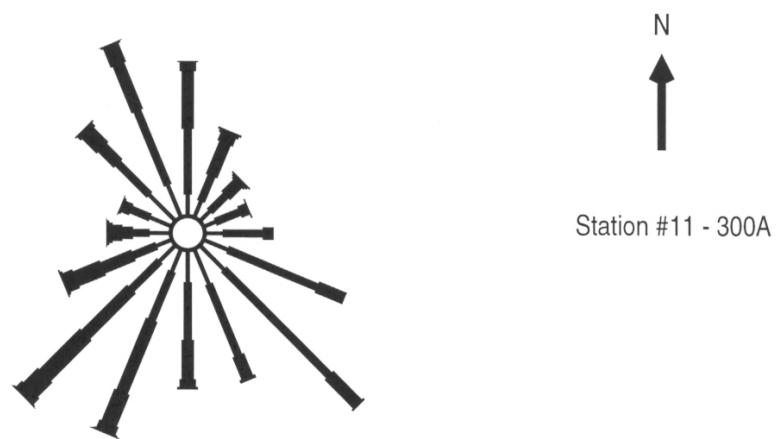


Figure B.1. (contd)



(a) Wind Rose

Period: 1/2003 - 12/2003

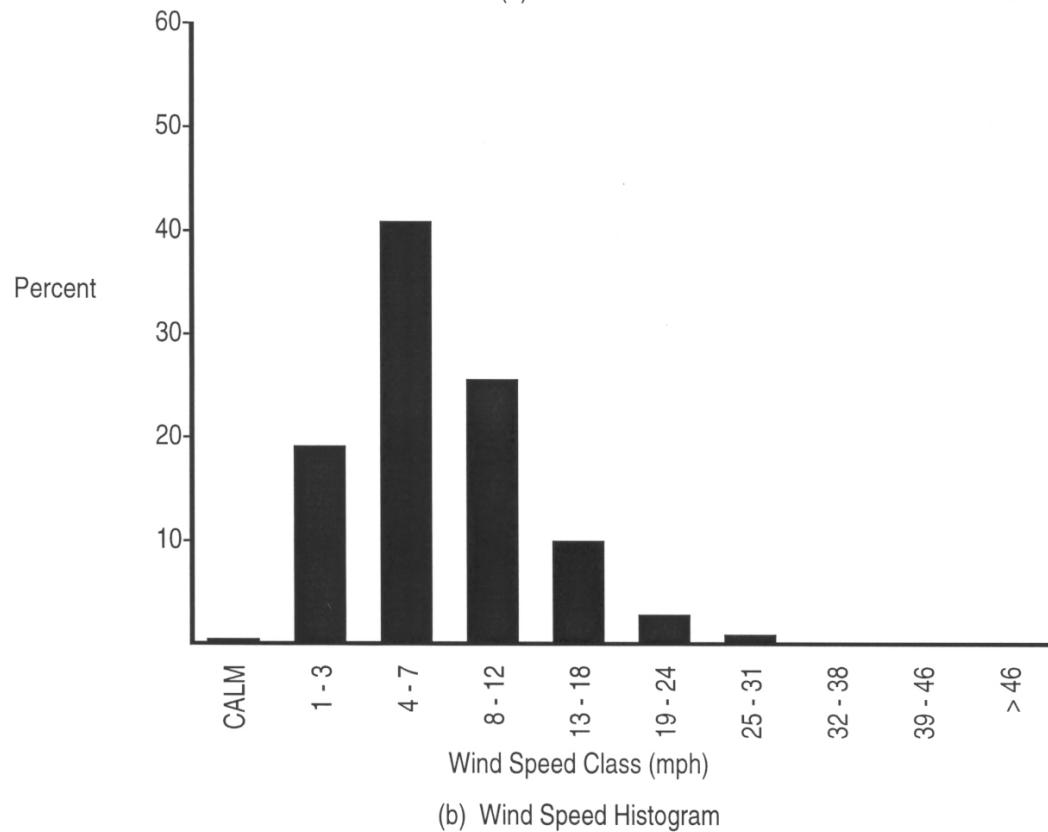
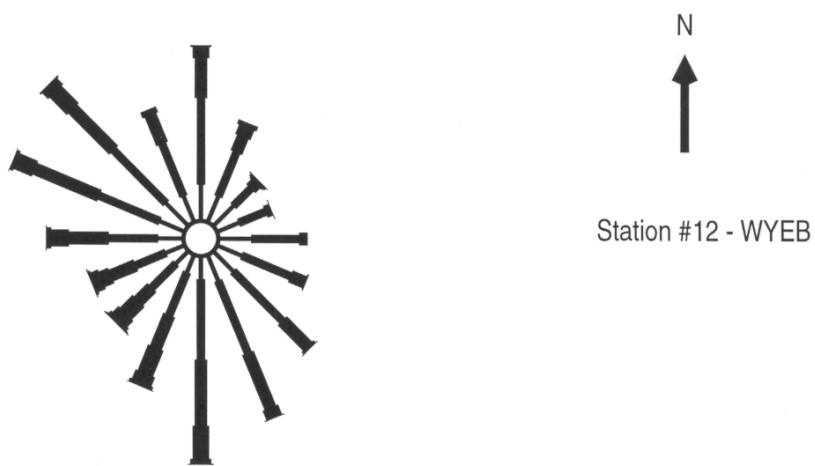
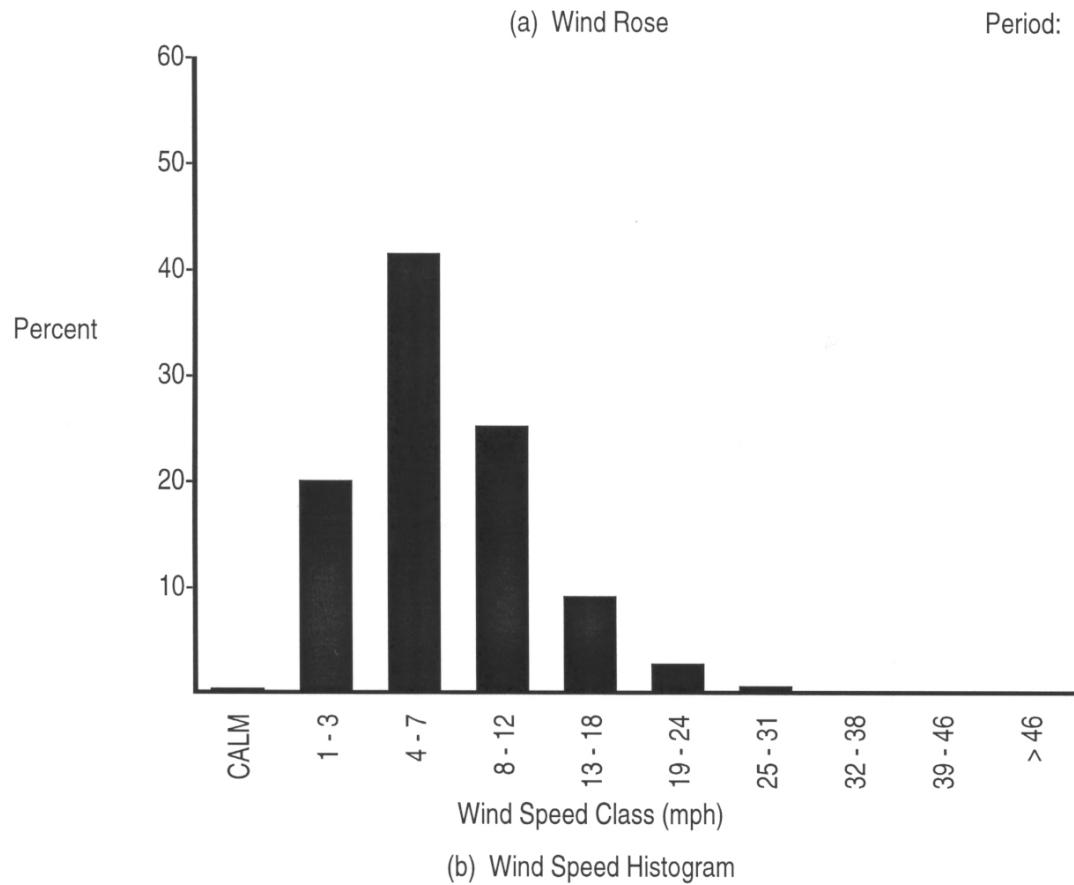


Figure B.1. (contd)



(a) Wind Rose

Period: 1/2003 - 12/2003

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

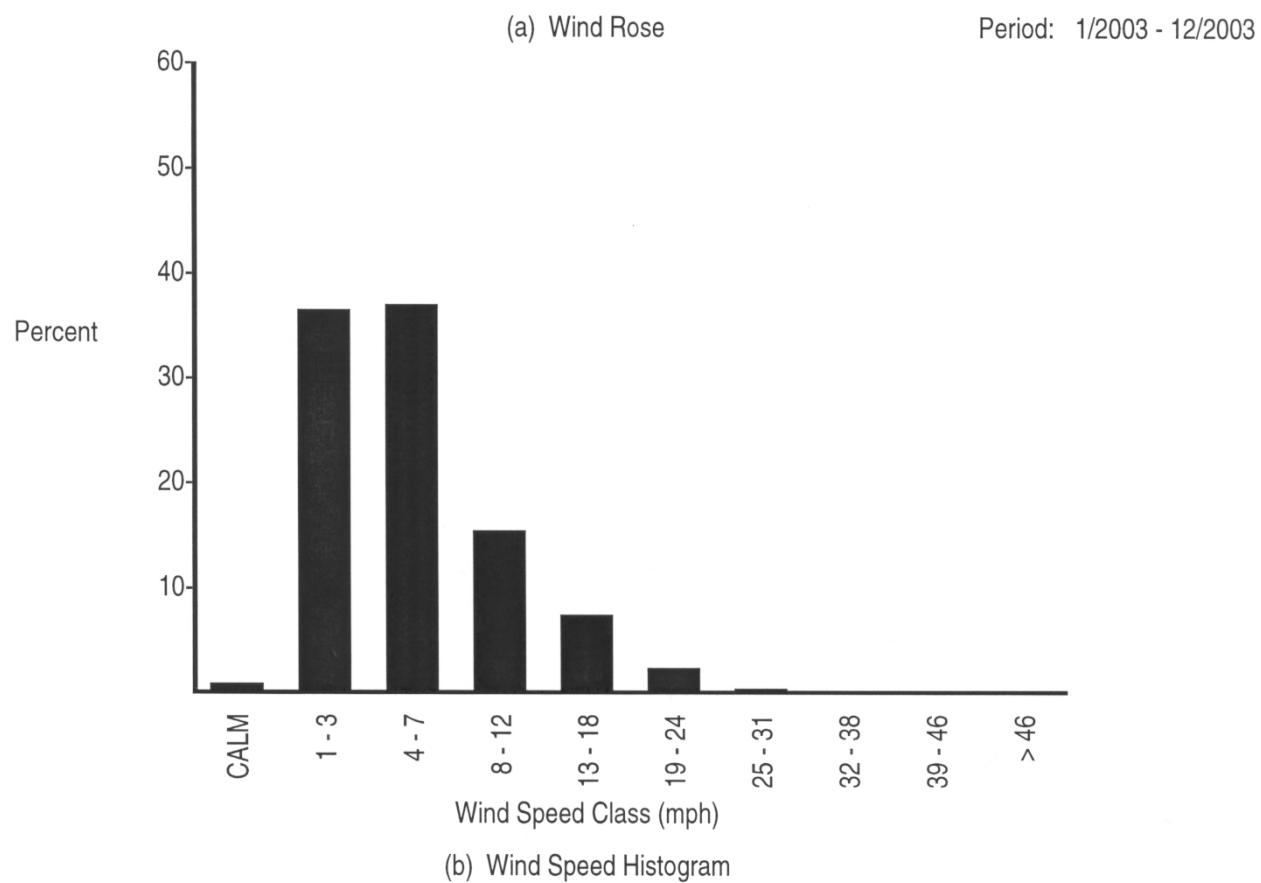
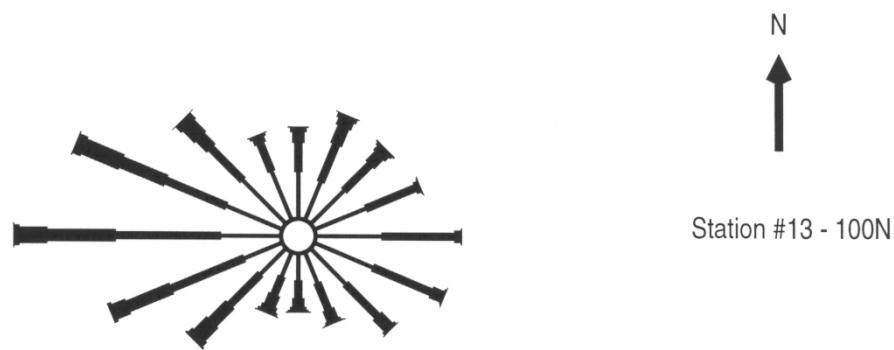


Figure B.1. (contd)

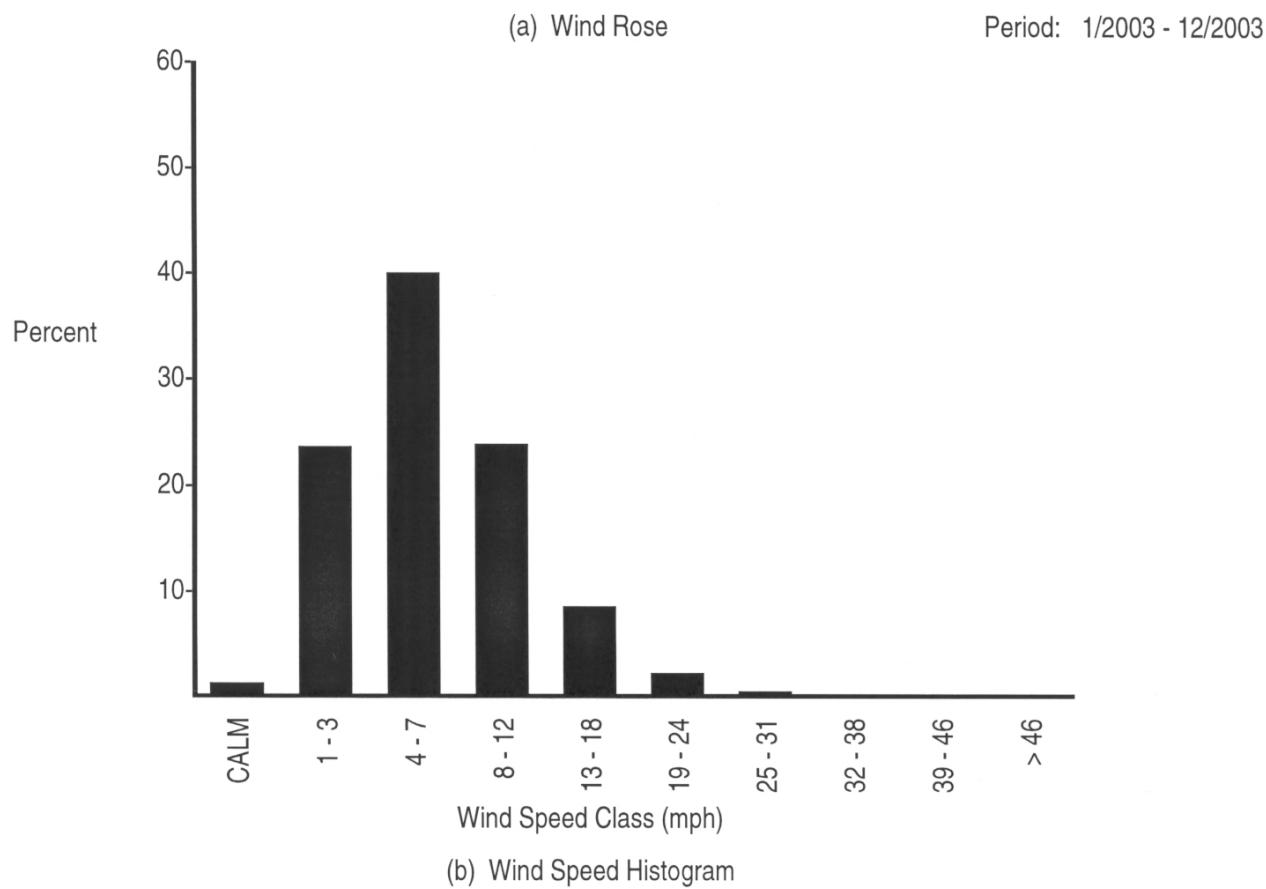
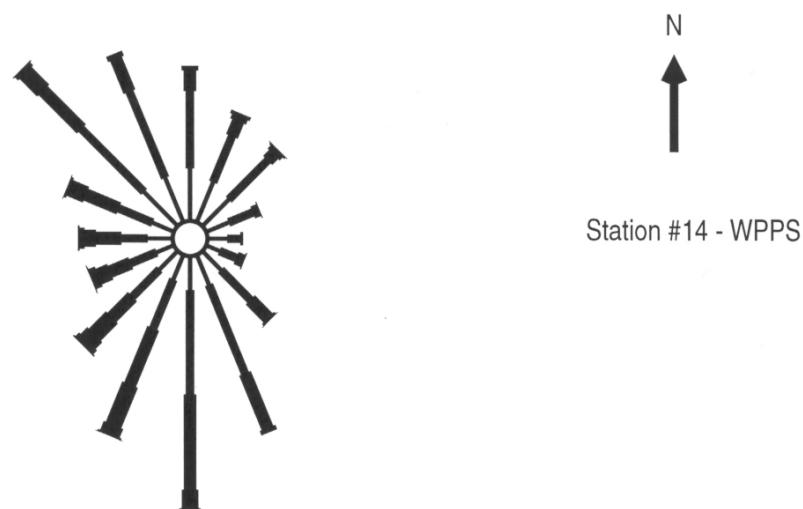


Figure B.1. (contd)

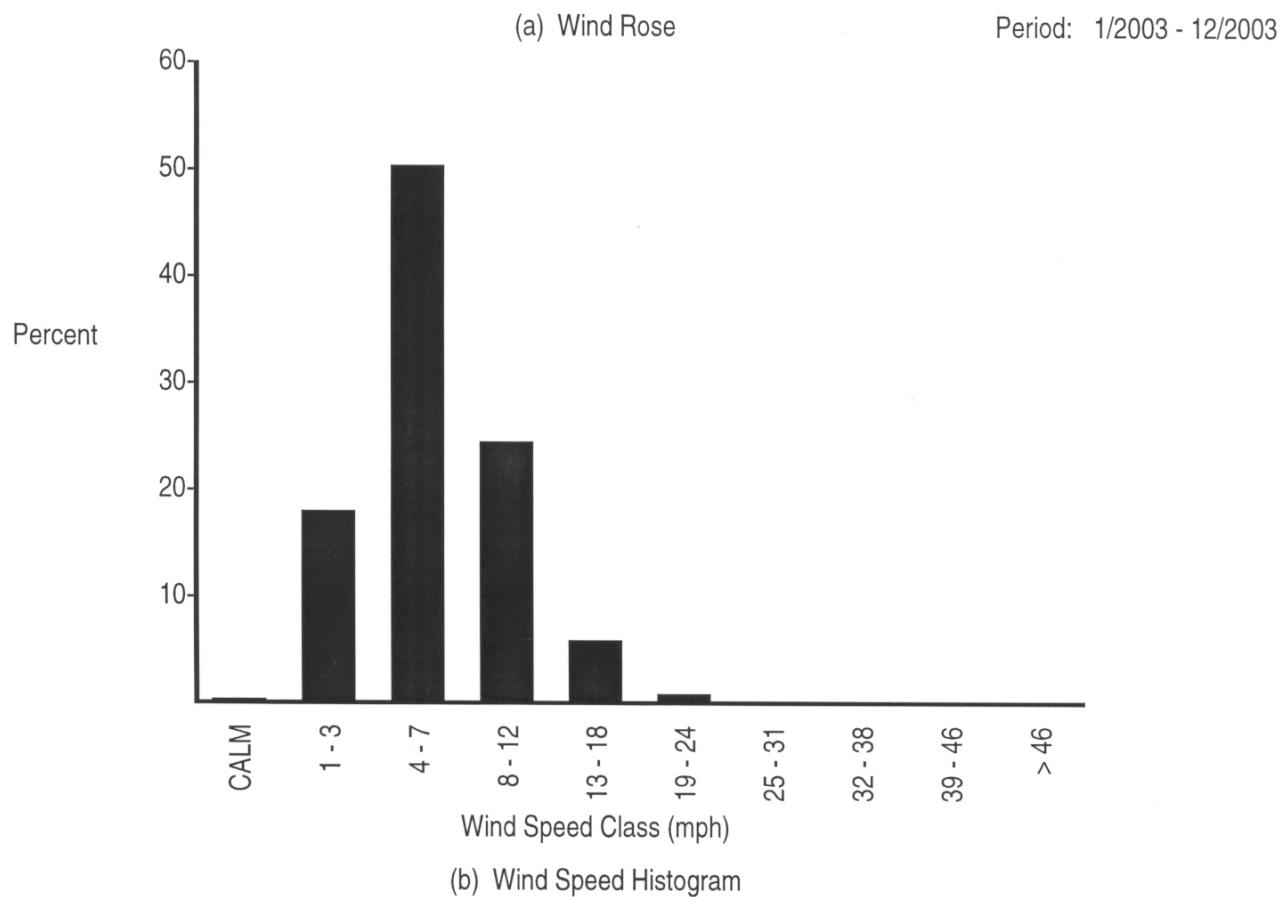
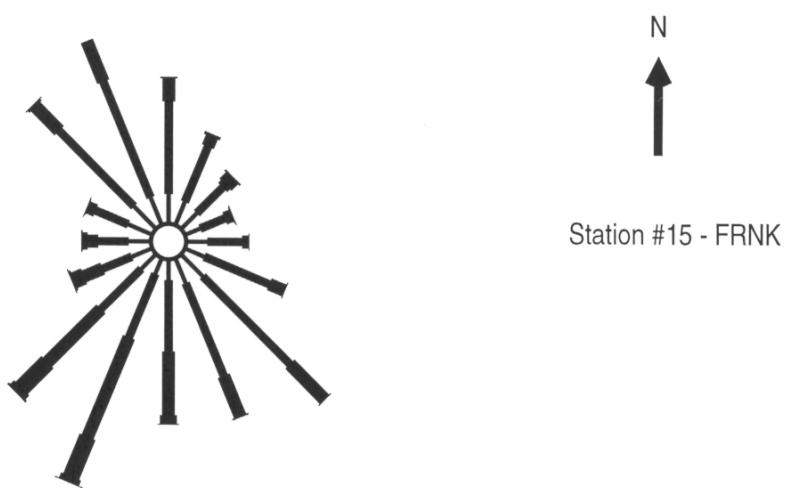


Figure B.1. (contd)

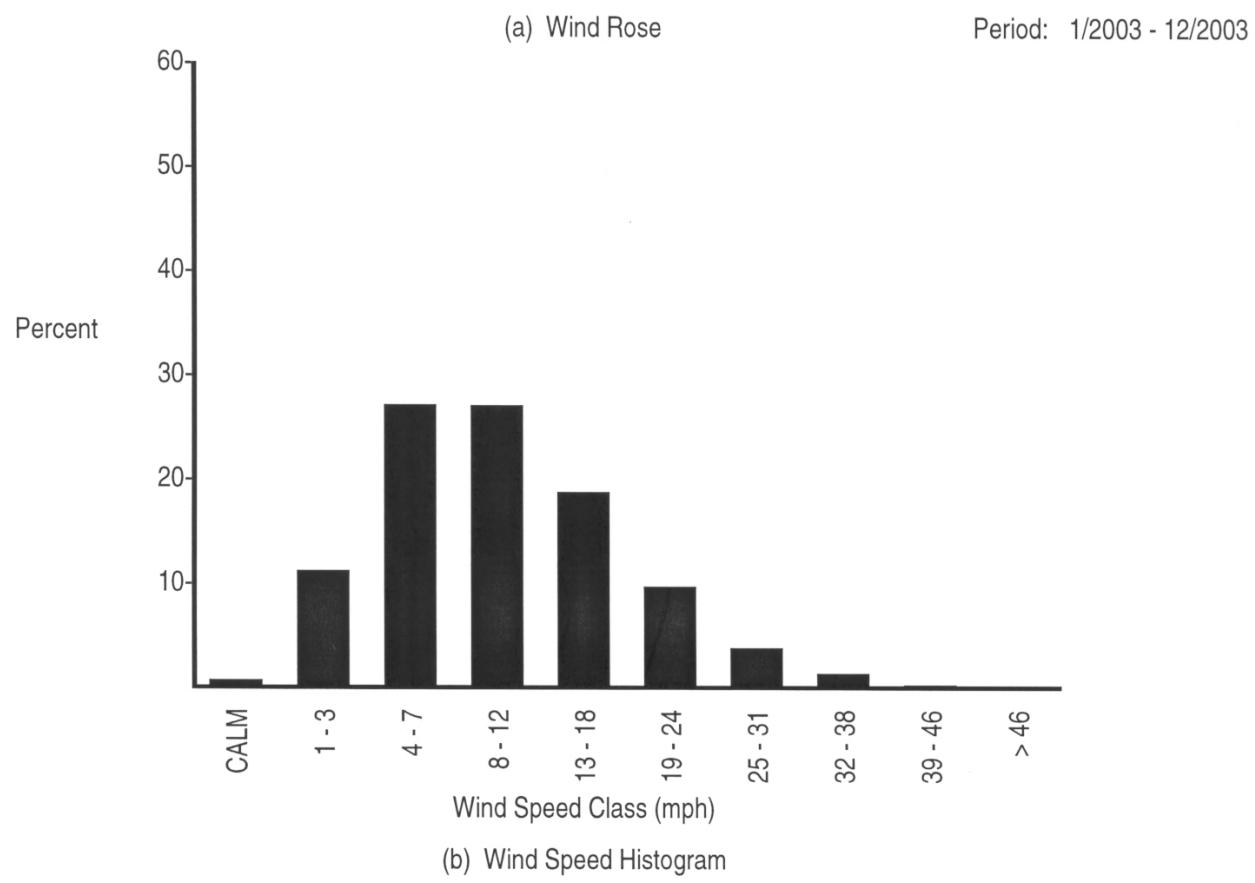


Figure B.1. (contd)

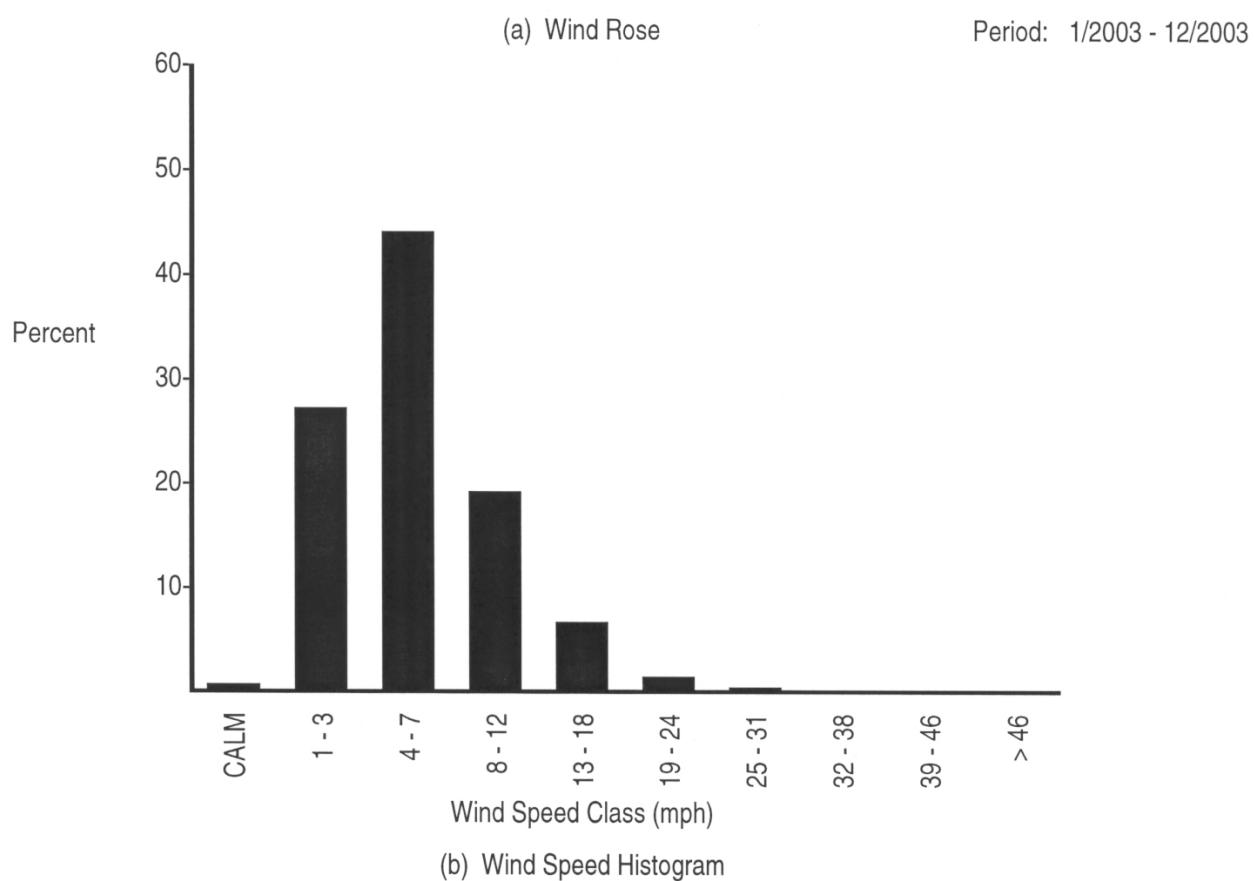
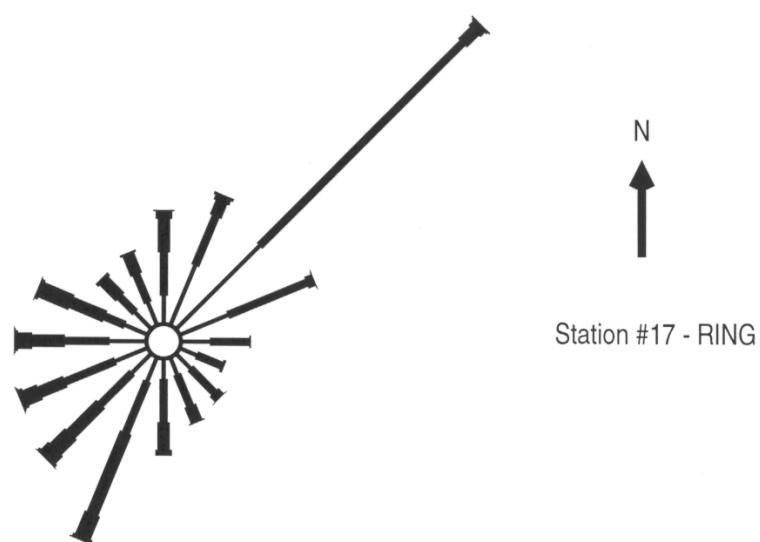


Figure B.1. (contd)

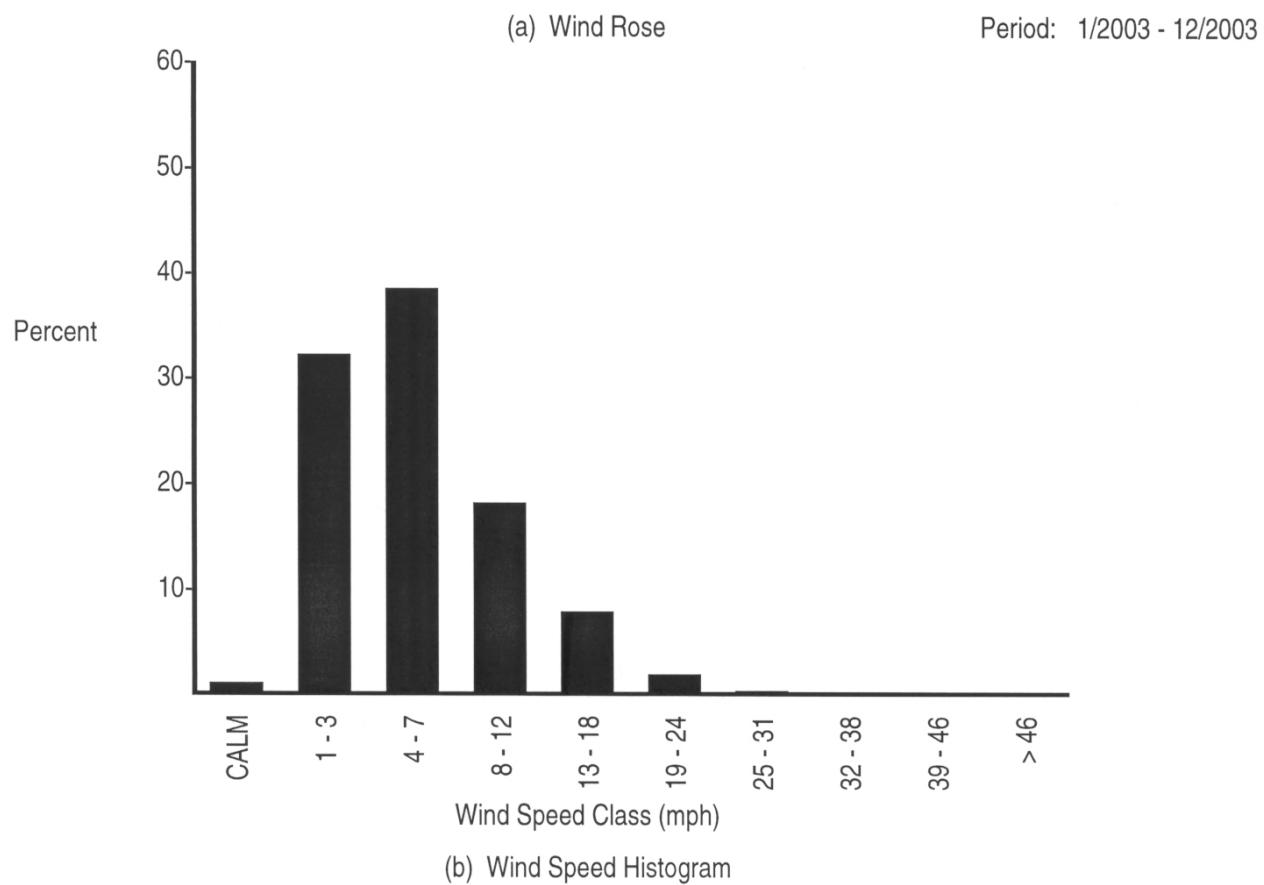
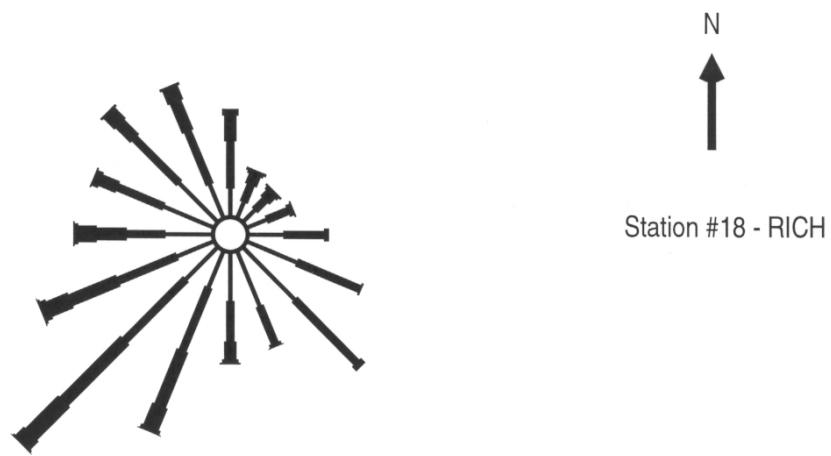


Figure B.1. (contd)

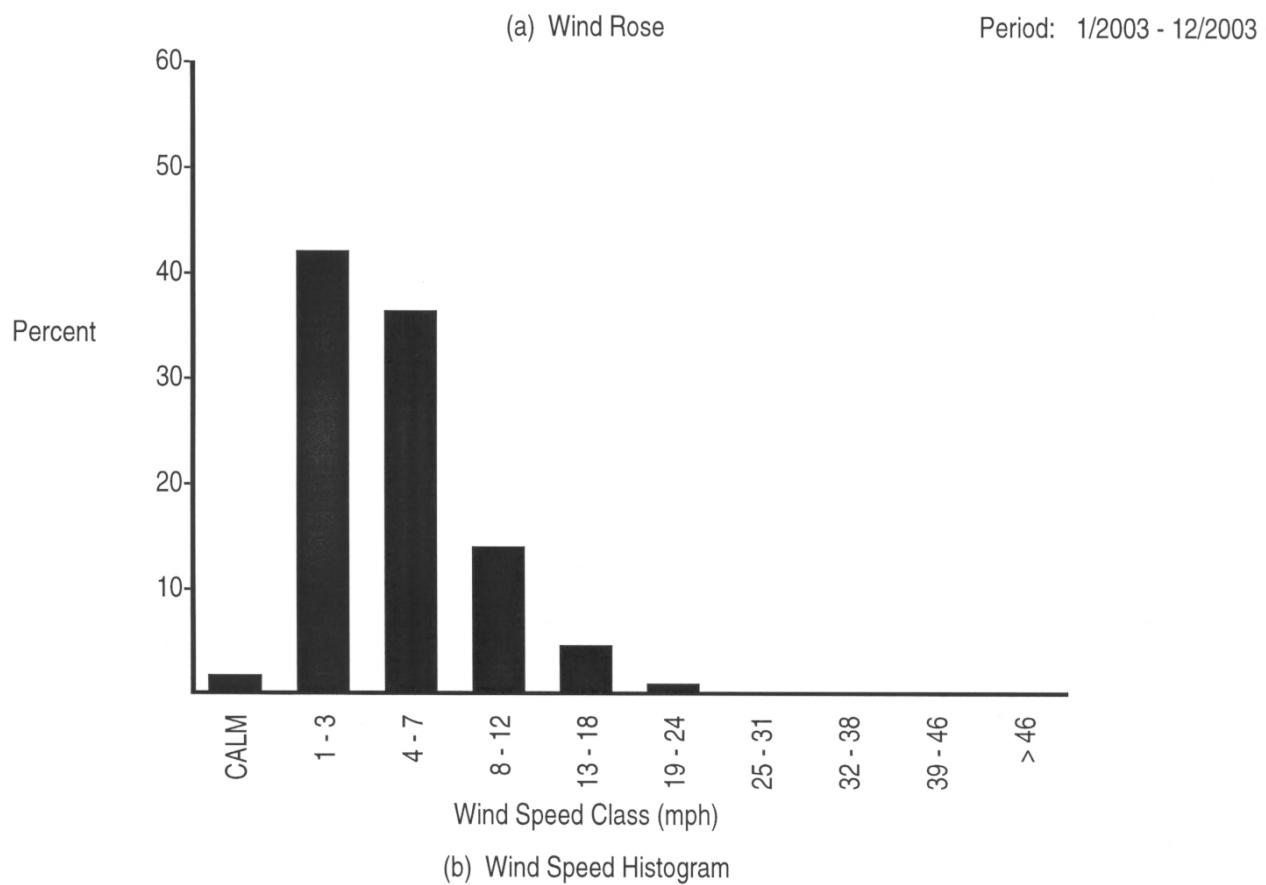
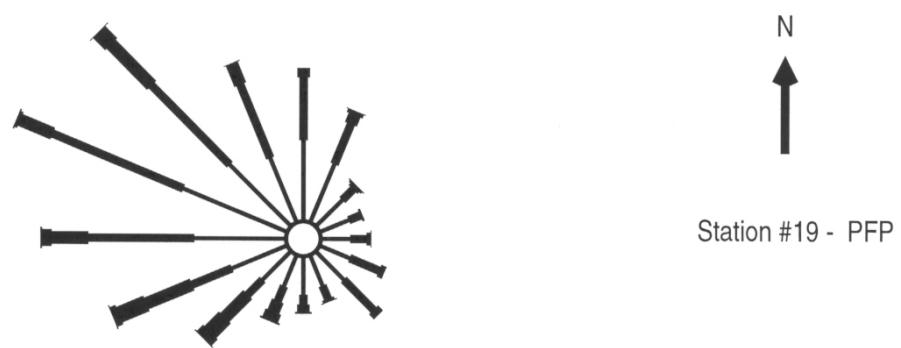


Figure B.1. (contd)

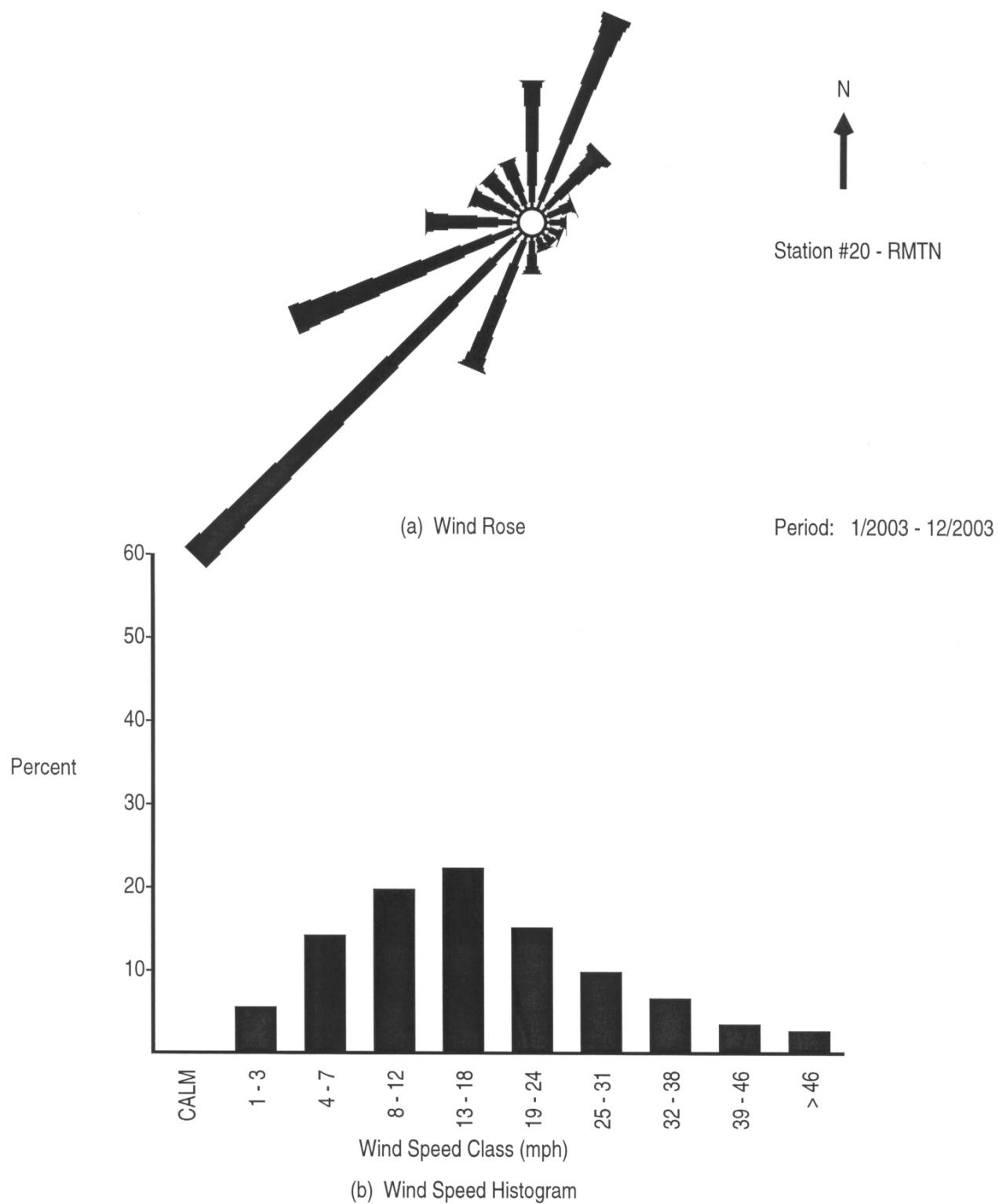


Figure B.1. (contd)

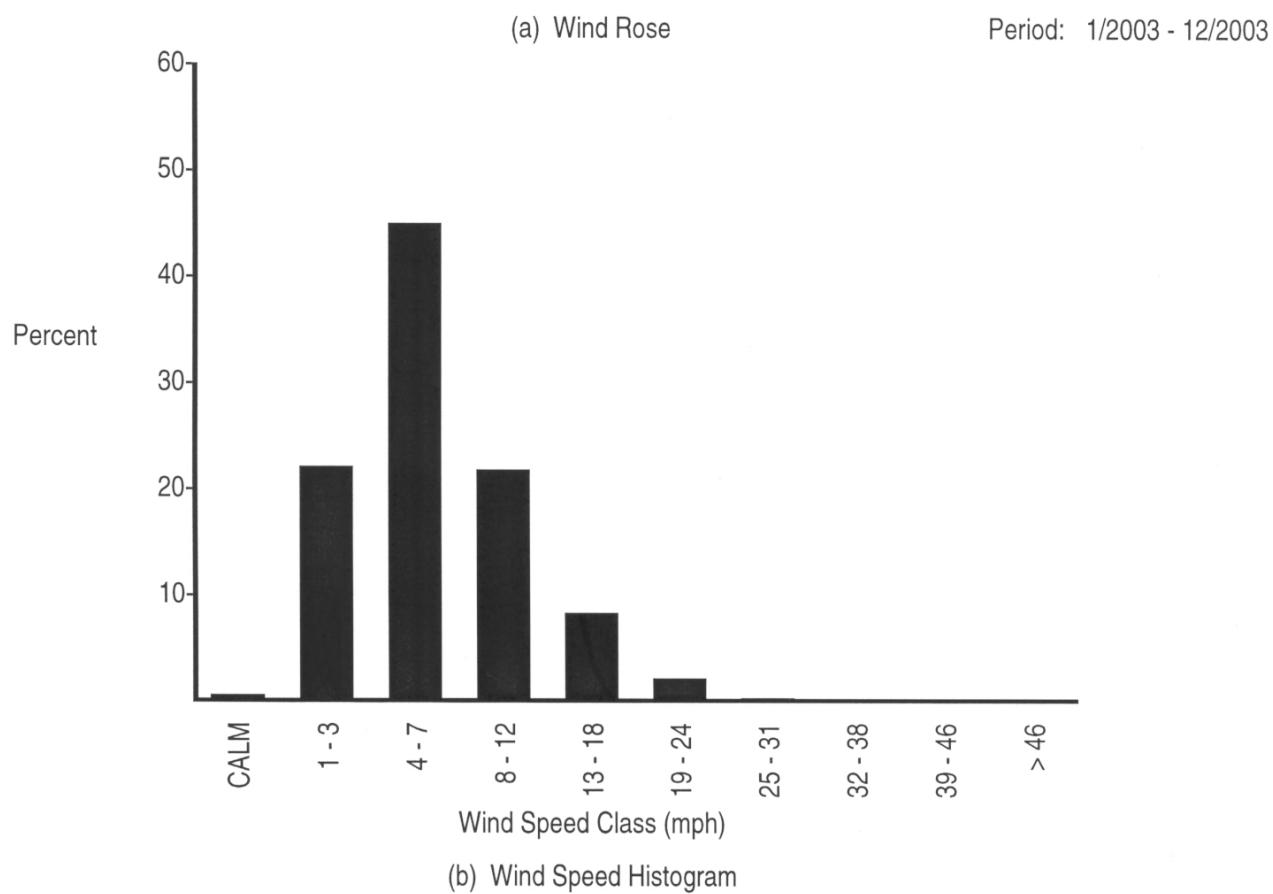


Figure B.1. (contd)

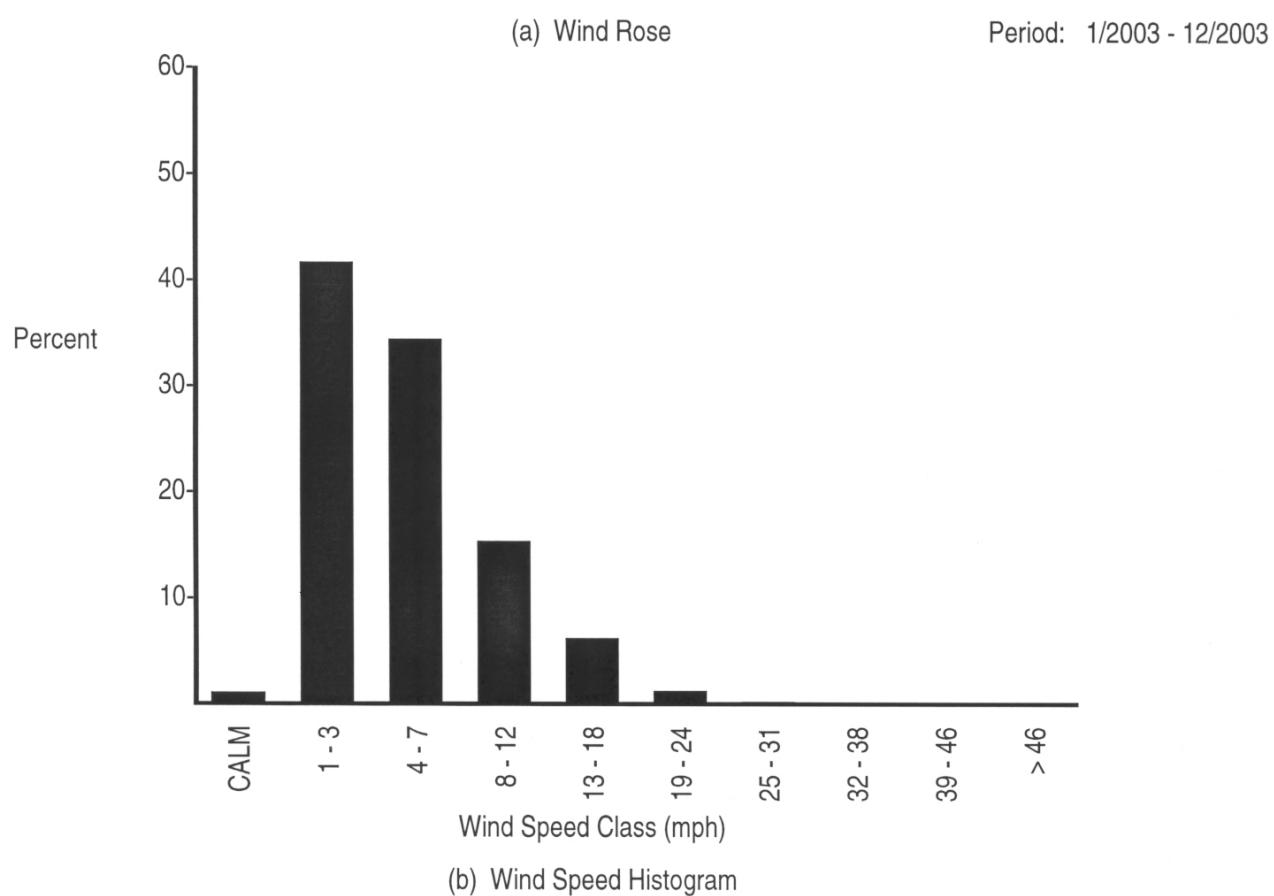
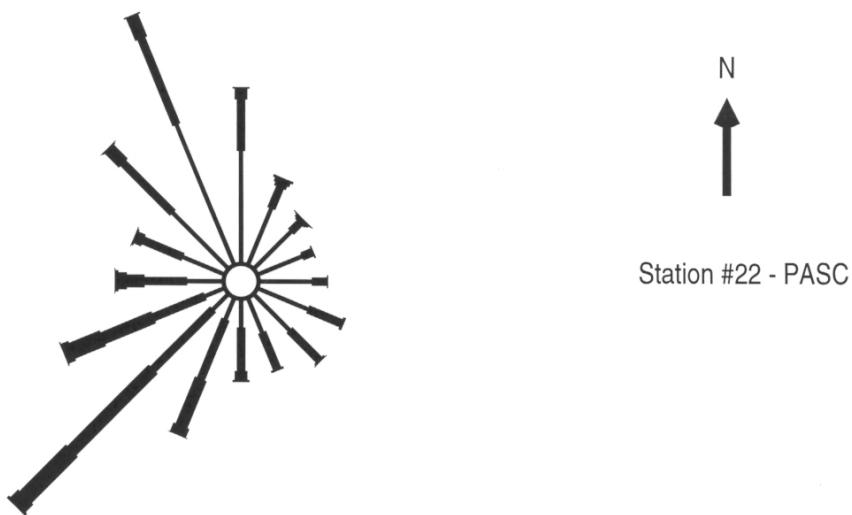


Figure B.1. (contd)

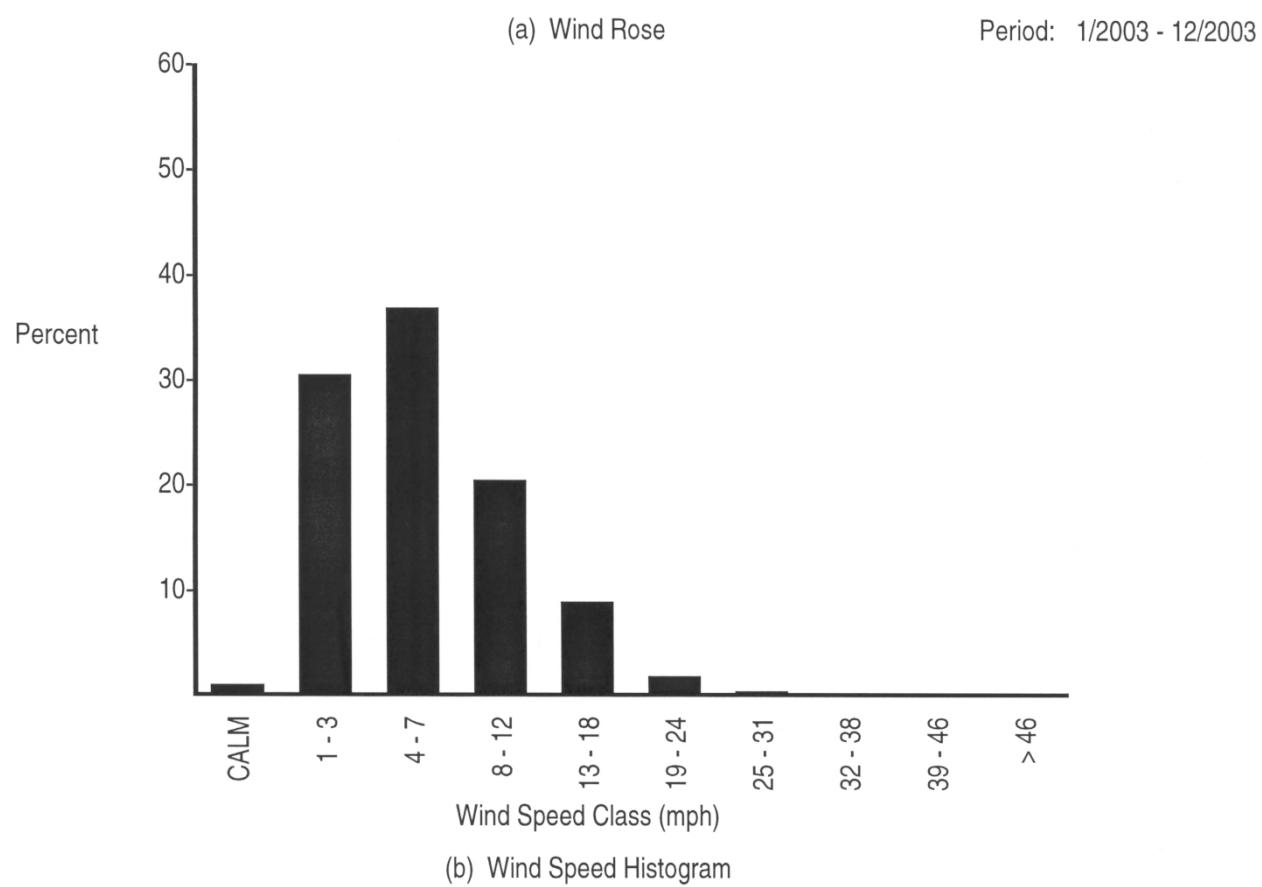
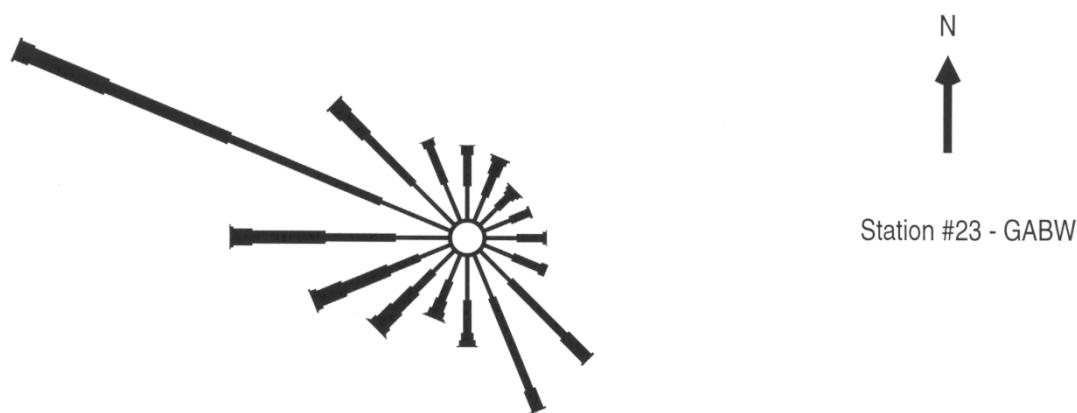
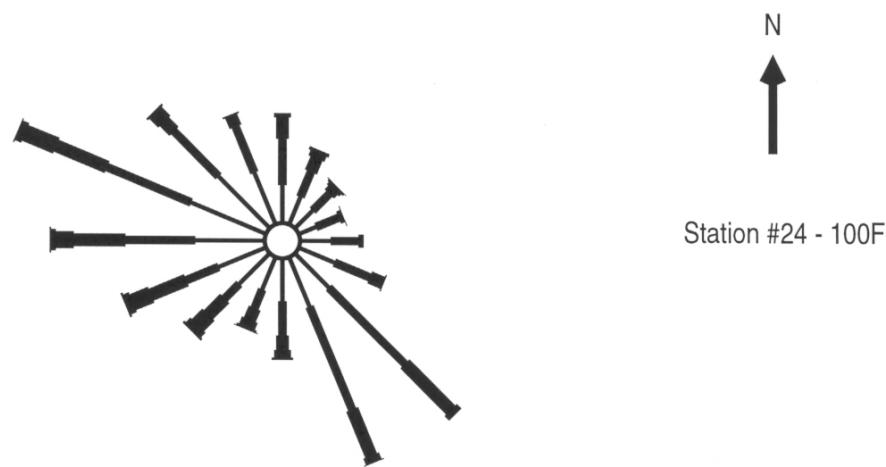
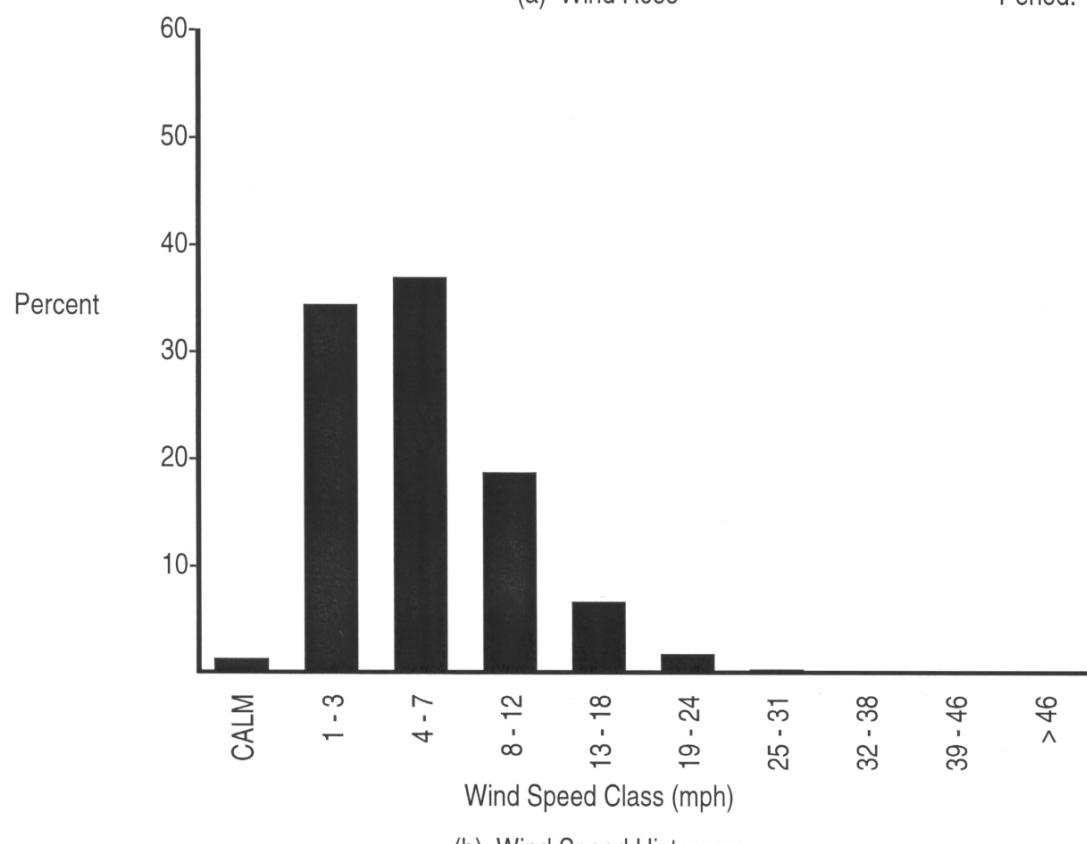


Figure B.1. (contd)



(a) Wind Rose

Period: 1/2003 - 12/2003

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

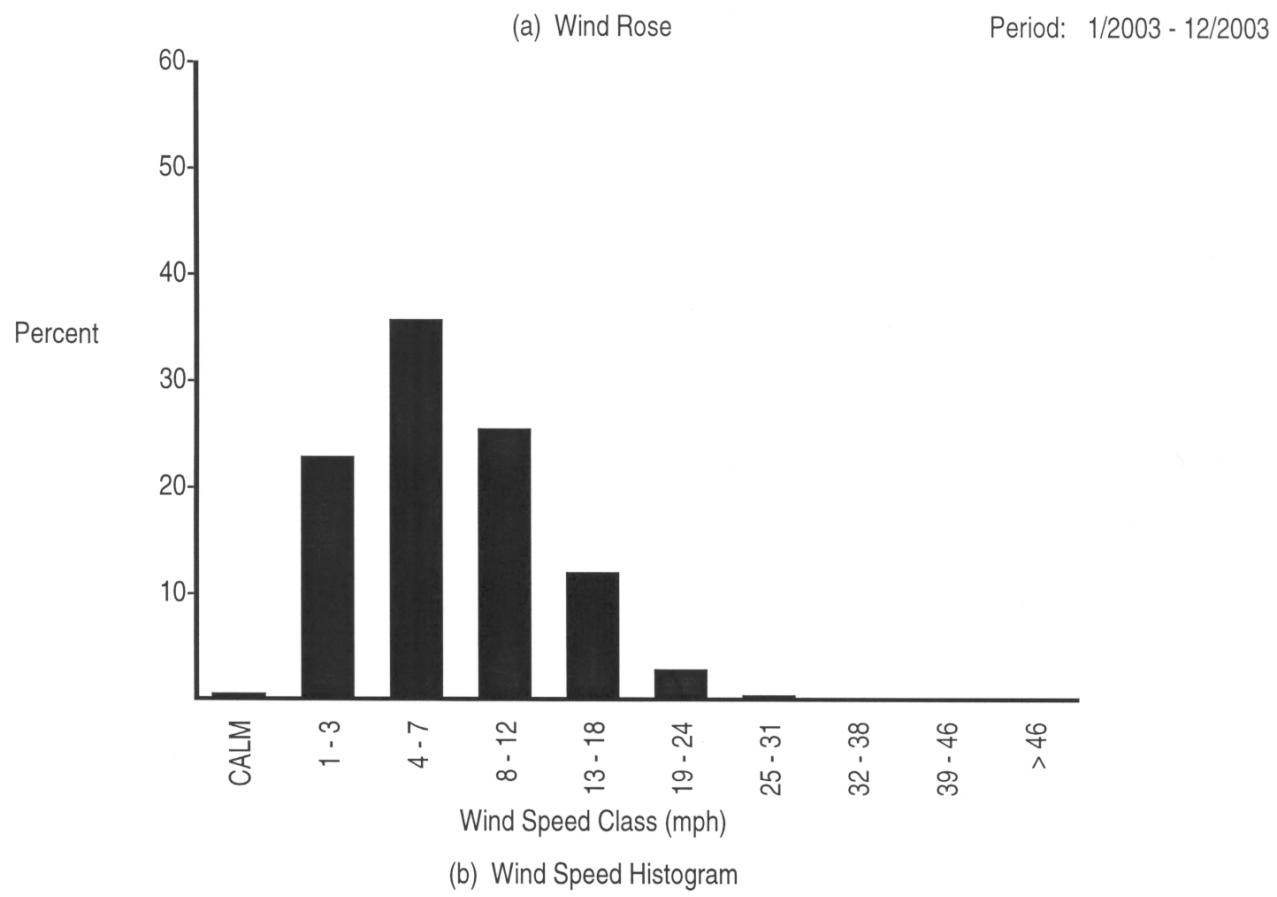
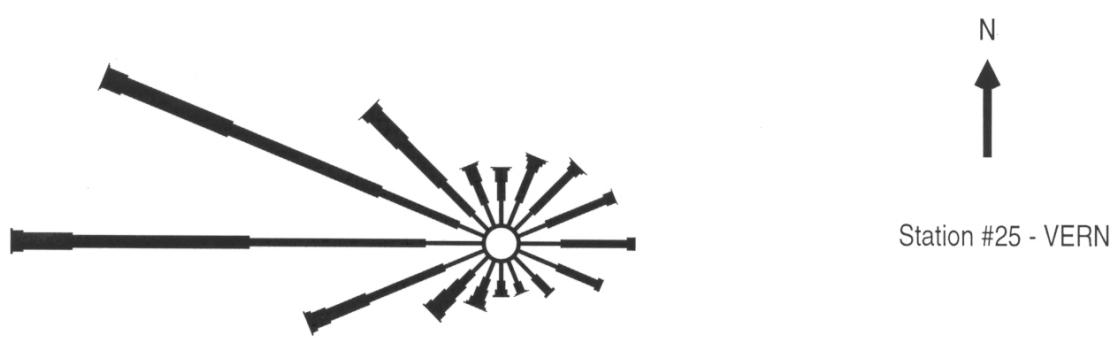


Figure B.1. (contd)

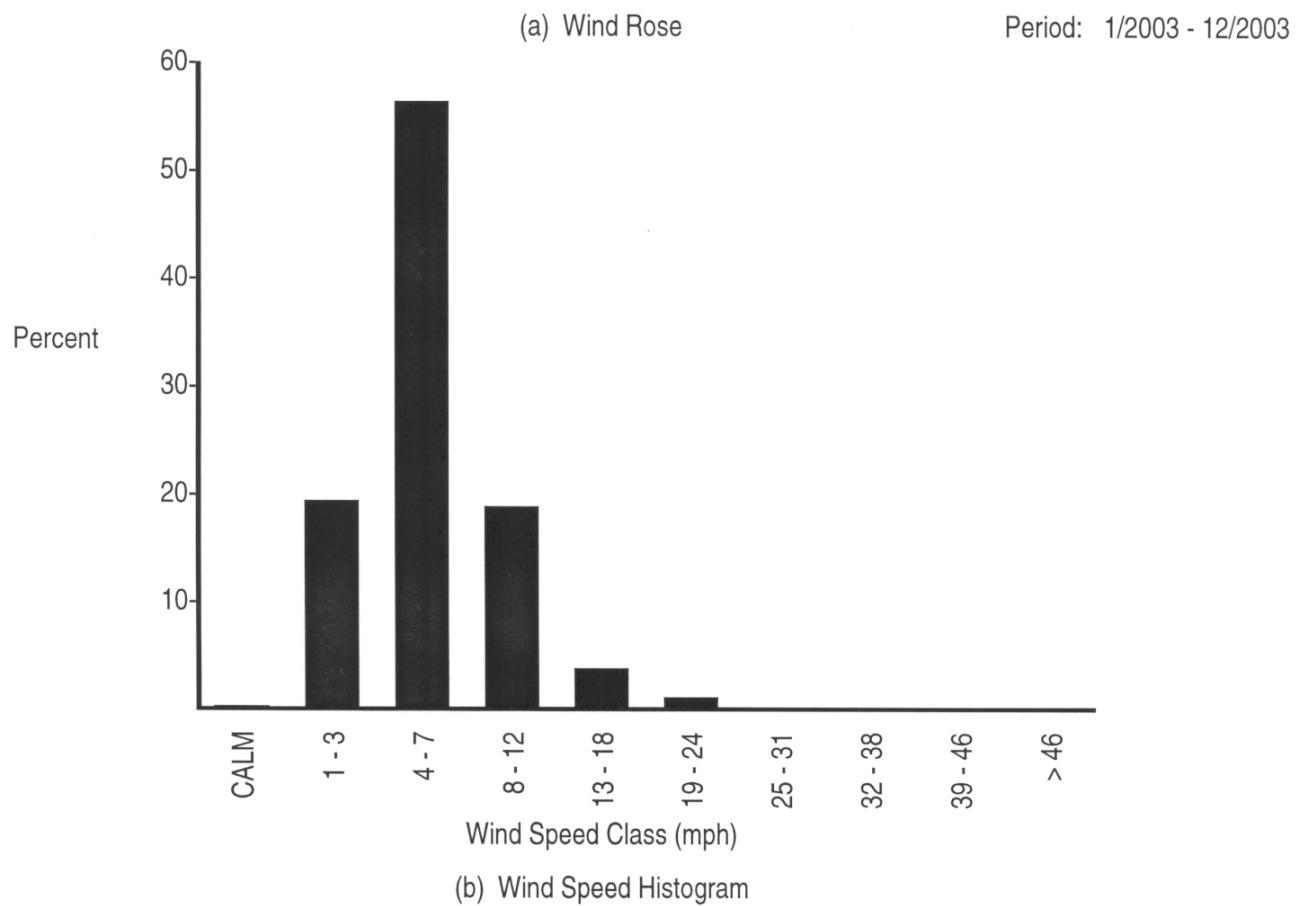
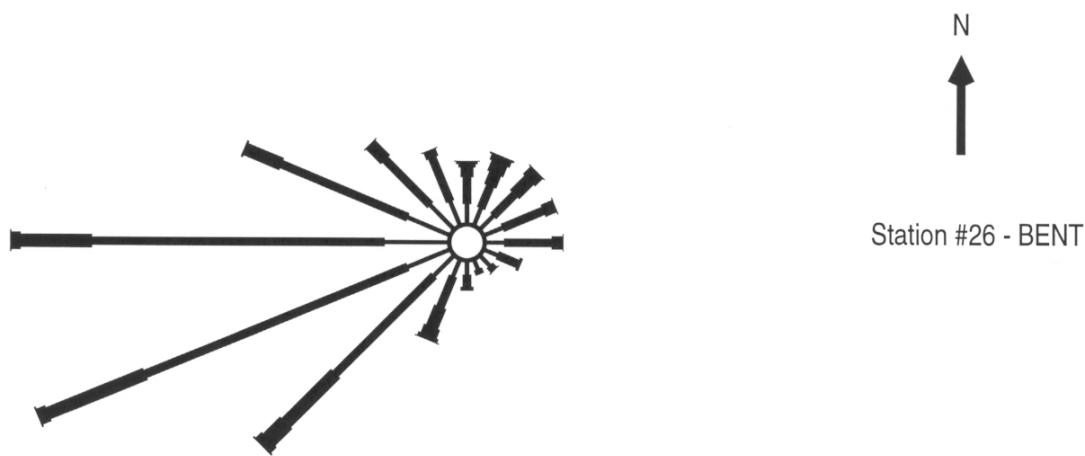
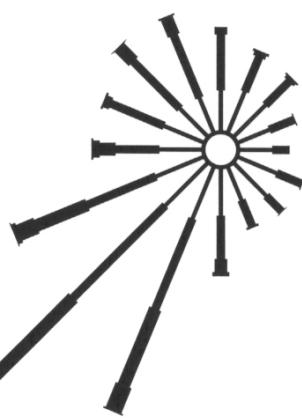


Figure B.1. (contd)

N

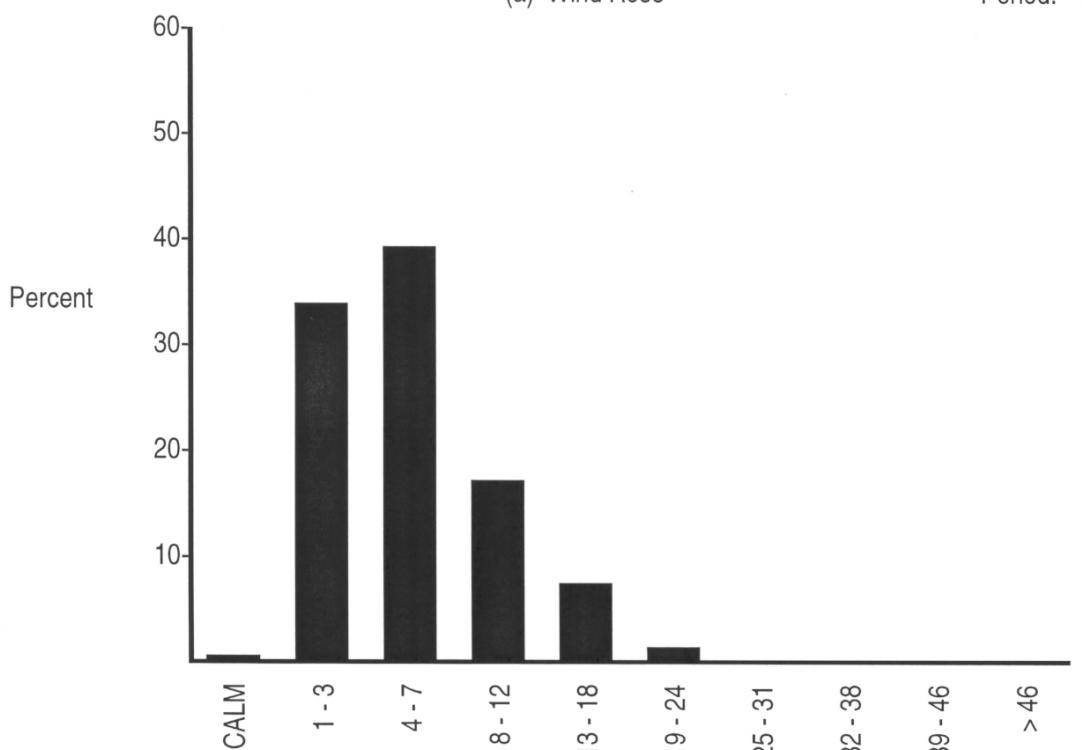


Station #27 - VSTA



(a) Wind Rose

Period: 1/2003 - 12/2003



(b) Wind Speed Histogram

Figure B.1. (contd)

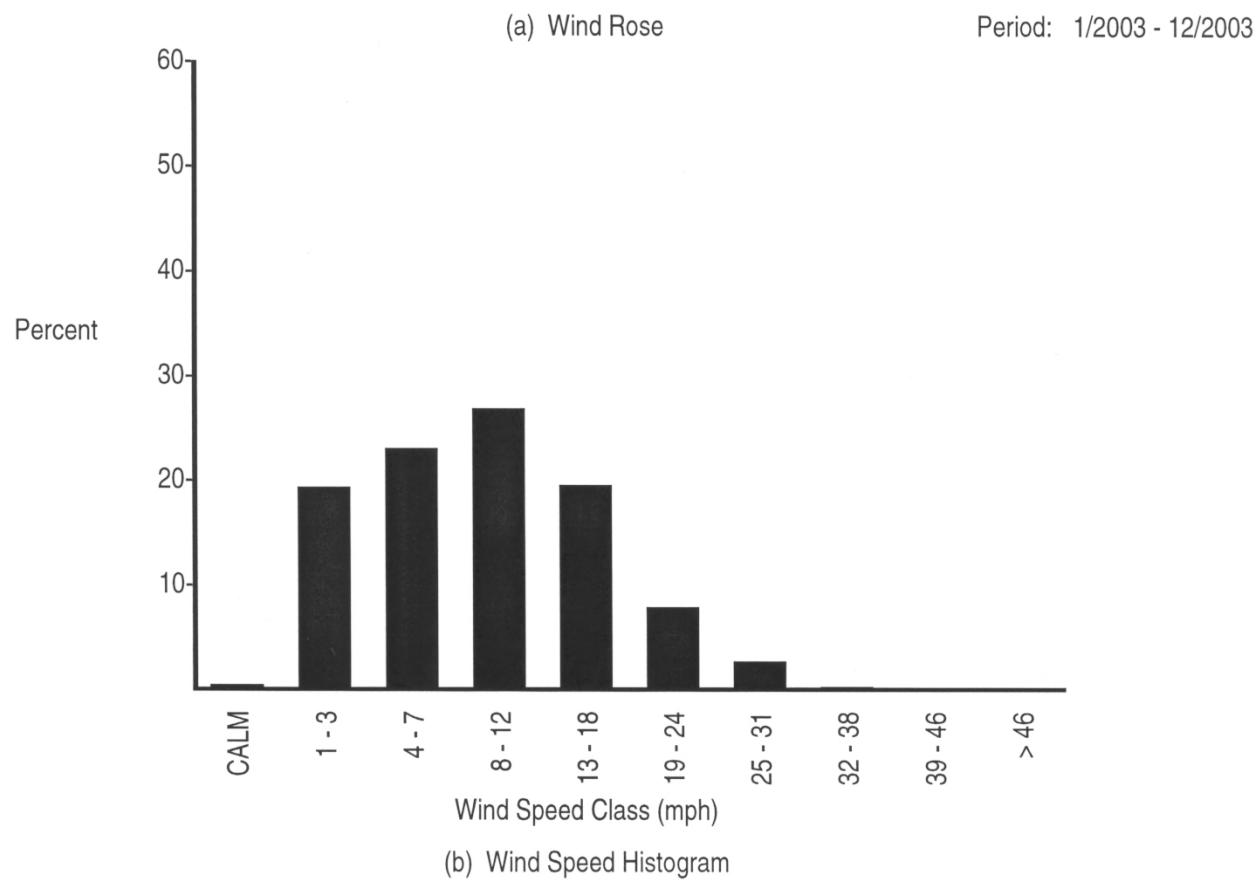
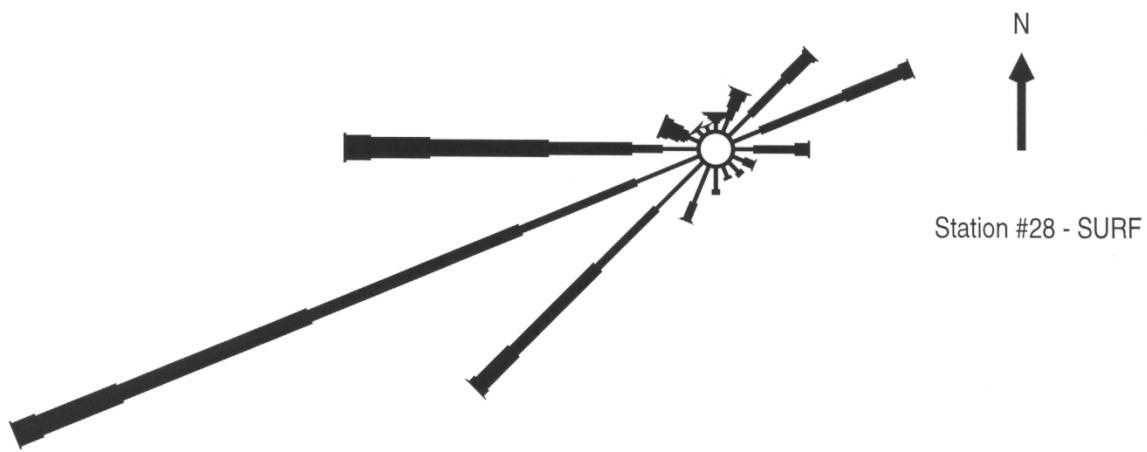


Figure B.1. (contd)

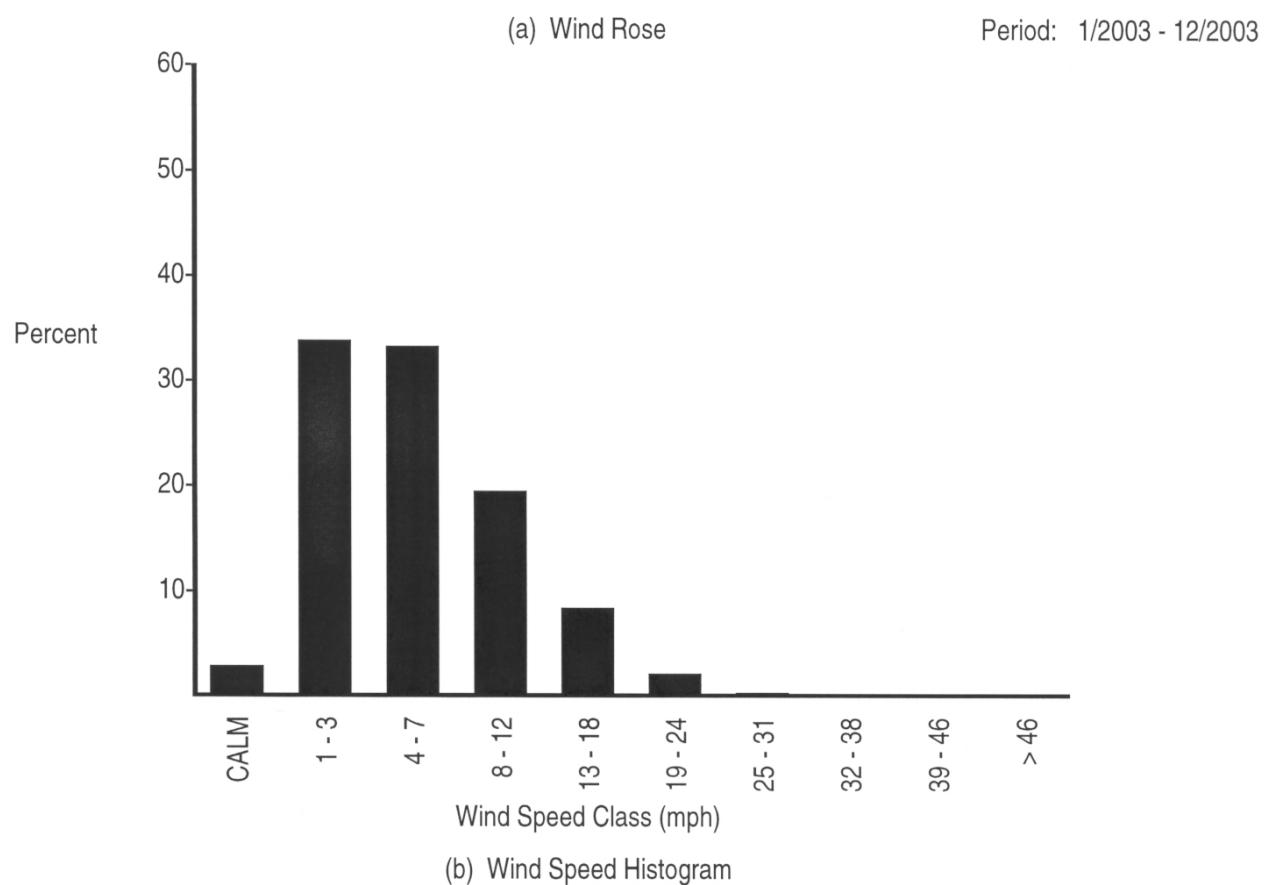
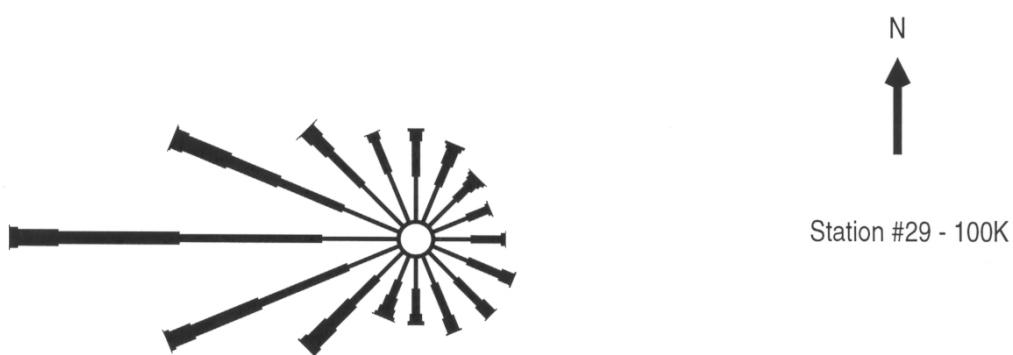
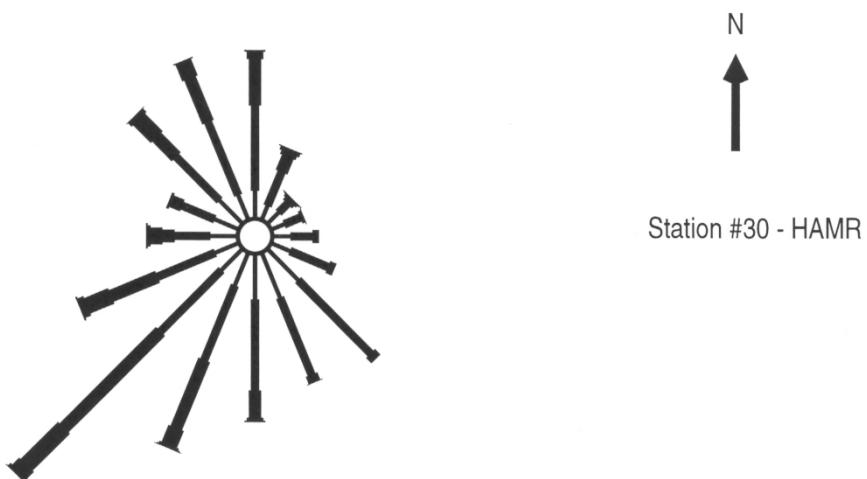
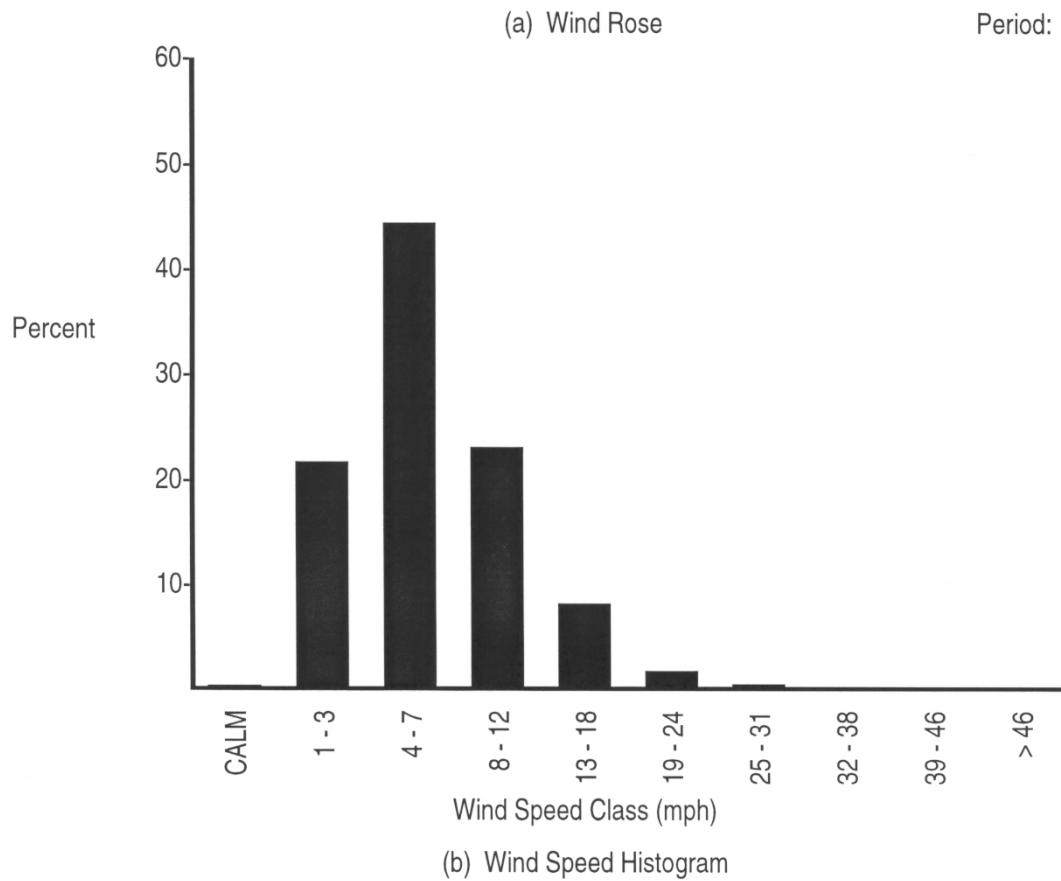


Figure B.1. (contd)



(a) Wind Rose

Period: 1/2003 - 12/2003

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

N

100 Area Tower

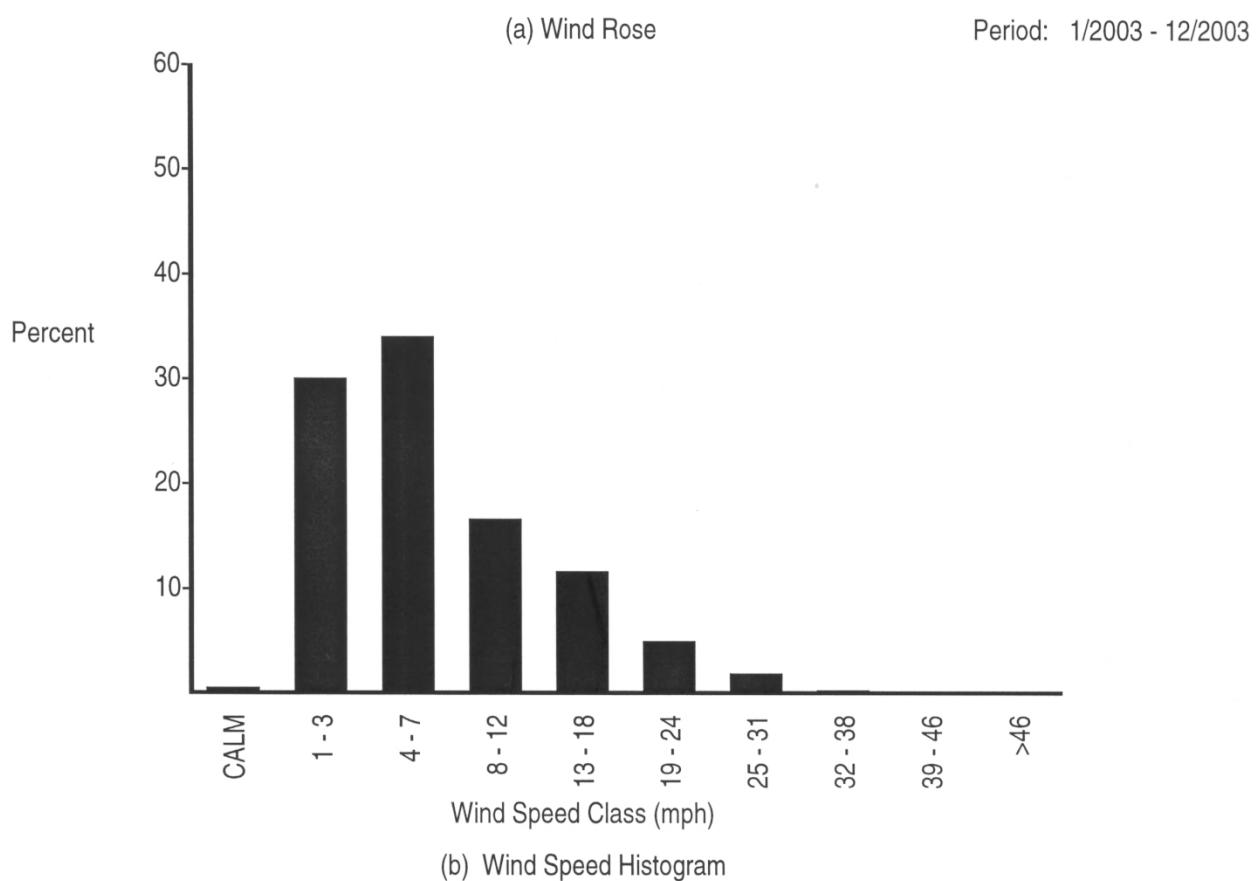


Figure B.2. Wind Rose and Wind Speed Histogram, 60 meters

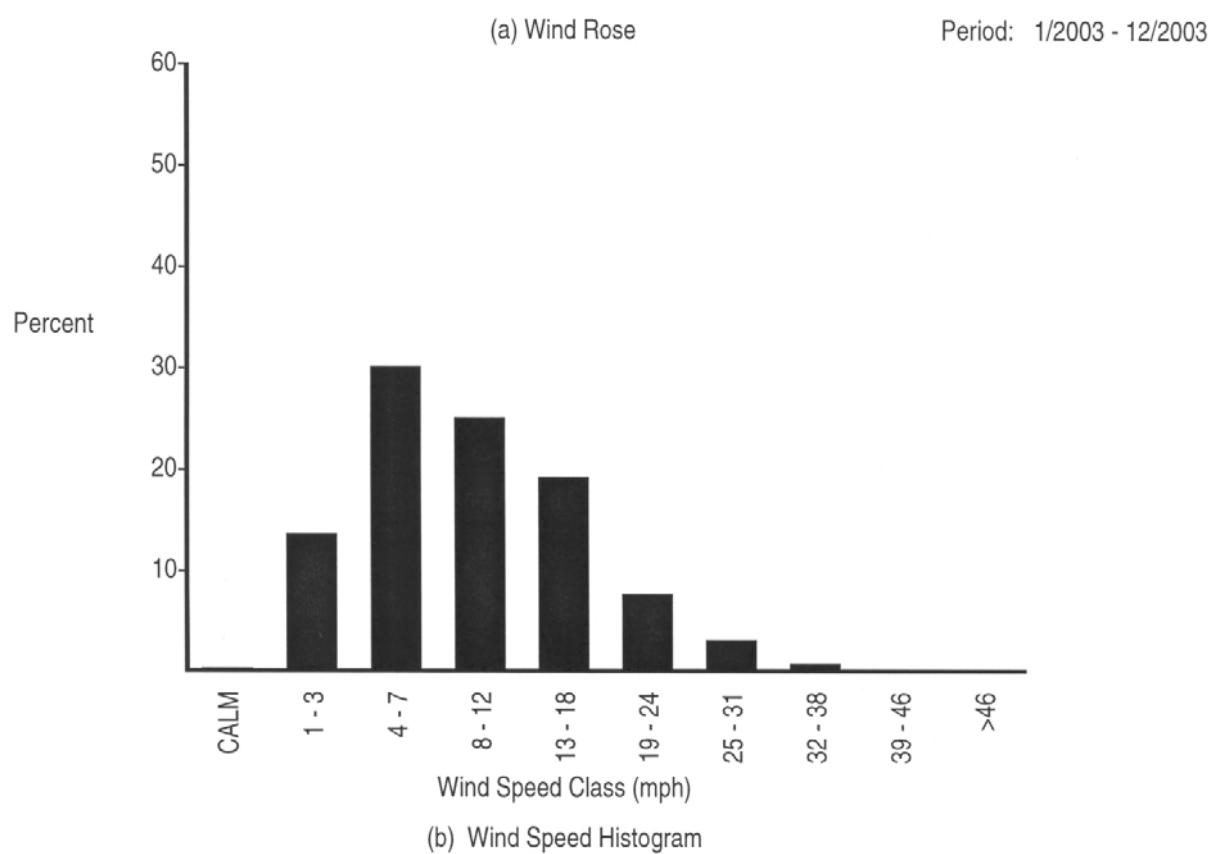
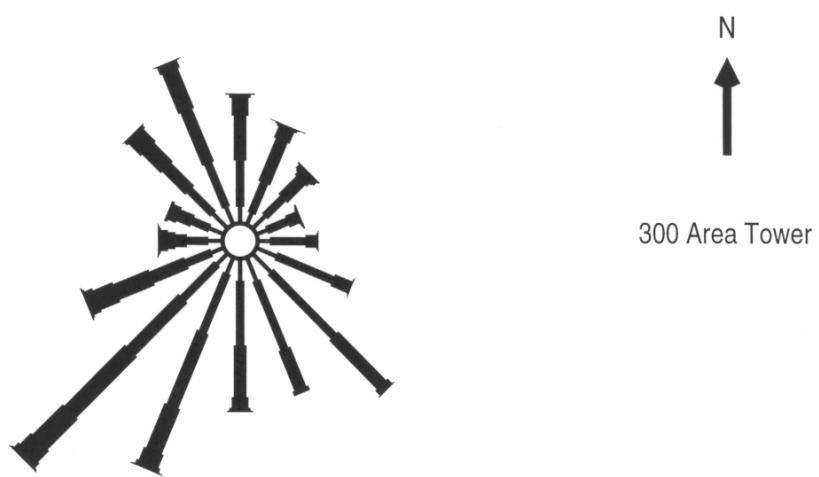


Figure B.2. (contd)



(a) Wind Rose

Period: 1/2003 - 12/2003

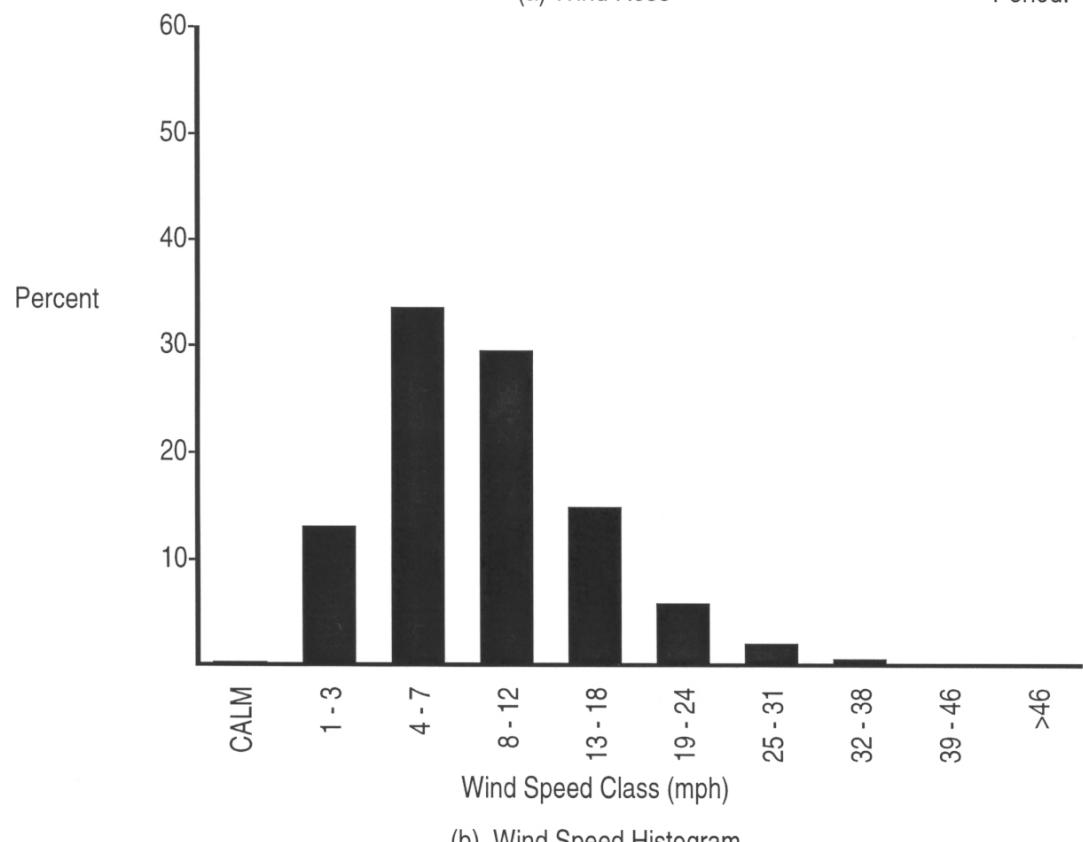
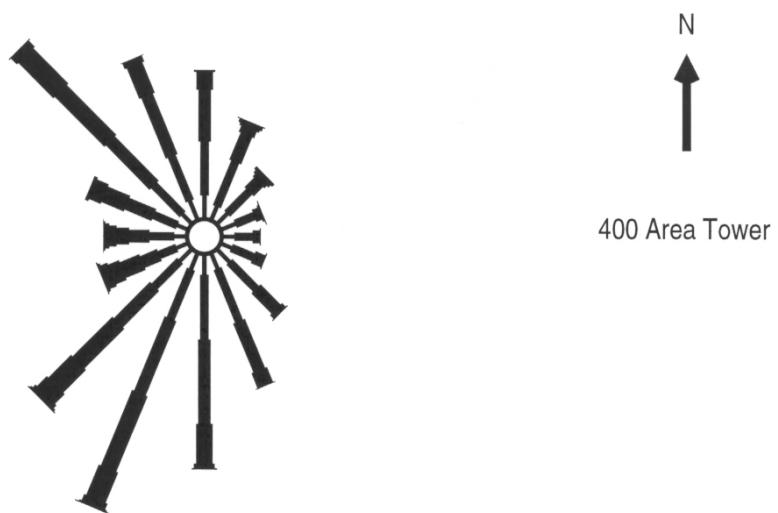


Figure B.2. (contd)



(a) Wind Rose

Period: 1/2003 - 12/2003

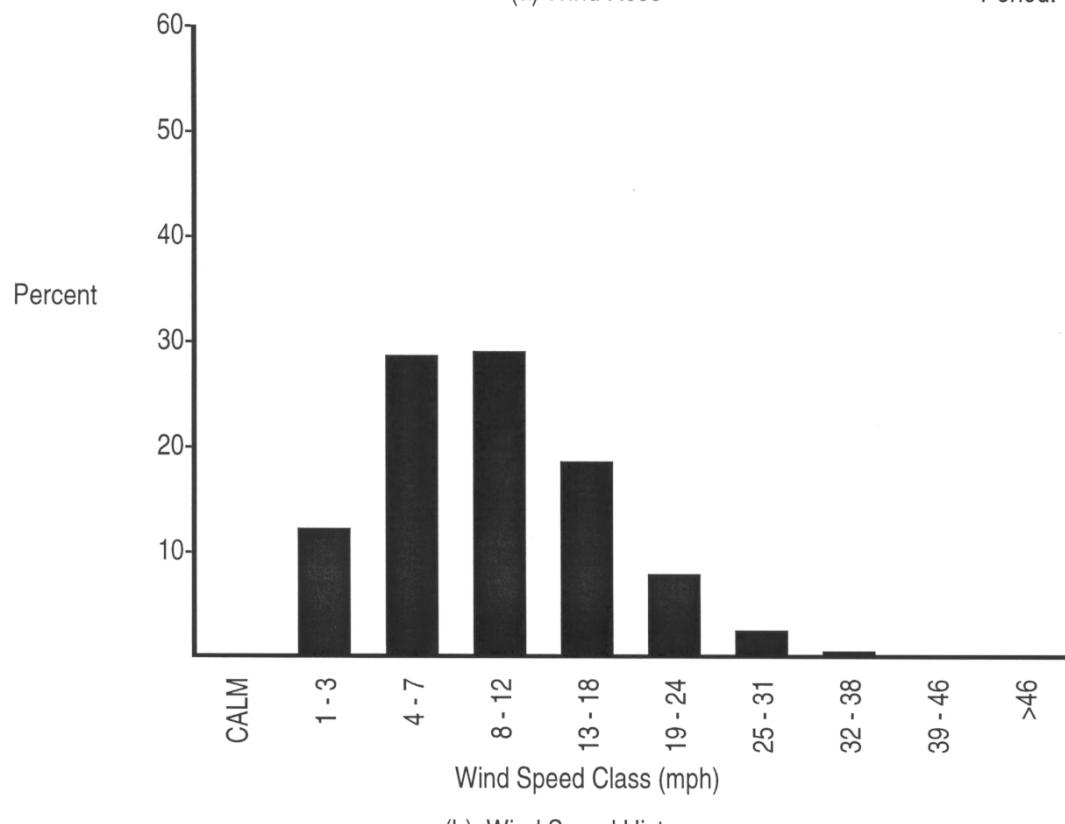
**Figure B.2. (contd)**

Table B.1. Joint Frequency Distributions (%) for Hanford Meteorological Monitoring Network Wind Stations at 30 Feet, 2003

Station: (1) PROS

SPEED	DIRECTION														Total	Hours:	8731	
	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	.7	.7
1-3	1.9	1.1	.8	.9	.8	1.0	1.6	2.1	2.1	2.0	1.7	1.3	1.2	1.4	2.2	2.8	0.0	25.0
4-7	2.7	1.3	.7	.6	1.0	1.1	2.8	5.1	5.1	3.4	1.6	1.0	.7	.9	3.6	4.2	0.0	35.8
8-12	1.6	.5	.2	.1	.2	.3	.7	1.7	3.7	4.8	1.9	.9	.5	.6	2.9	3.0	0.0	23.6
13-18	.4	.2	.1	0.0	0.0	0.0	0.0	0.0	.1	2.9	1.8	1.0	.4	.2	2.4	1.1	0.0	11.5
19-24	.1	.2	0.0	0.0	0.0	0.0	0.0	0.0	.1	.4	.7	.4	.2	.1	.4	.1	0.0	2.5
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.1	.2	.2	0.0	0.0	.1	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	.1	.1	0.0	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	6.7	3.3	1.9	1.6	1.9	2.5	5.1	9.0	11.8	13.6	8.1	4.8	3.1	3.1	11.5	11.2	.7	100.0

Station: (2) EOC

SPEED	DIRECTION														Total	Hours:	8662	
	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	.9	.9
1-3	1.0	1.0	.7	.8	.8	.6	.6	.8	1.0	1.3	1.1	1.2	1.4	1.4	1.8	1.2	0.0	16.8
4-7	2.5	1.8	1.4	.9	1.1	1.0	1.2	1.2	1.9	2.2	1.5	1.3	2.0	3.4	4.0	3.1	0.0	30.6
8-12	1.7	.4	.1	.1	0.0	0.1	.3	.4	1.5	2.5	2.7	2.1	1.8	3.9	6.0	3.1	0.0	26.7
13-18	.6	.2	.1	0.0	0.0	0.0	0.0	0.0	.1	1.0	2.9	2.8	1.5	.5	3.3	2.3	0.0	15.3
19-24	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.2	1.7	2.0	1.1	.1	.5	.2	0.0	6.0
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.1	1.0	1.1	.4	.1	.1	0.0	0.0	2.8
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	.2	.1	0.0	0.0	0.0	.7
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	.1	0.0	0.0	0.0	0.0	.2
> 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	6.1	3.4	2.3	1.8	1.9	1.7	2.2	2.3	4.5	7.2	11.3	10.8	8.4	9.5	15.7	10.0	.9	100.0

Station: (3) ARMY

SPEED	DIRECTION														Total	Hours:	8693	
	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	3.4	3.4
1-3	2.1	1.8	2.0	2.0	2.5	2.0	1.8	1.2	.8	.7	.9	1.2	2.3	3.5	3.9	2.7	0.0	31.4
4-7	2.5	1.1	1.1	1.3	2.0	2.1	1.9	.8	.5	.4	.6	.9	2.2	6.3	7.1	3.8	0.0	34.7
8-12	1.0	.5	.2	.2	.4	.7	.9	.6	.5	.5	.7	1.3	2.1	4.1	4.2	1.9	0.0	19.8
13-18	.3	.1	.1	0.0	0.0	.2	.2	.2	.2	.3	.7	1.4	1.0	1.1	1.4	.2	0.0	7.2
19-24	.3	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.1	.5	.6	.4	.2	.5	0.0	0.0	2.7
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.1	.1	.2	0.0	0.0	.1	0.0	0.0	.6
32-38	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	.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	6.2	3.6	3.4	3.6	4.9	5.0	4.8	2.7	2.0	2.1	3.6	5.7	8.0	15.2	17.2	8.6	3.4	100.0

Station: (4) RSPG

SPEED	DIRECTION														Total	Hours:	8734	
	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	.5	.5
1-3	1.6	1.4	1.4	1.5	1.6	1.3	1.1	.7	.8	1.0	1.6	1.5	1.4	1.1	1.0	1.2	0.0	20.2
4-7	2.7	2.0	1.7	1.5	2.1	1.8	.6	.4	.5	.7	2.2	8.3	3.8	1.4	1.9	2.4	0.0	33.9
8-12	1.1	.5	.1	.1	.2	.5	.1	.1	.3	.8	2.0	15.7	5.3	2.2	1.5	1.5	0.0	31.9
13-18	.1	.1	.1	0.0	0.0	0.0	0.0	0.0	.1	.6	1.1	3.3	2.3	1.1	.9	.6	0.0	10.2
19-24	0.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.2	.9	.6	.4	.1	.1	.1	0.0	2.6
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.1	.1	.2	.1	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	.1	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	5.5	4.1	3.3	3.2	3.9	3.6	1.8	1.2	1.7	3.3	8.0	29.6	13.3	6.0	5.5	5.7	.5	100.0

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

SPEED	DIRECTION														Total	Hours:	8676	
	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	.6	.6
1-3	1.1	.8	.5	.6	.8	1.7	3.3	3.7	2.8	1.8	1.4	1.2	1.7	2.5	2.7	1.6	0.0	28.3
4-7	1.9	1.3	.9	1.0	1.9	5.5	7.2	3.8	1.7	.8	.8	1.1	3.1	6.4	4.4	0.0	0.0	42.6
8-12	1.1	.5	.2	.2	1.1	2.2	1.5	1.3	1.1	.6	.8	1.2	1.3	1.9	2.4	2.3	0.0	19.7
13-18	.2	.2	.1	0.0	.1	.2	.1	.3	.6	.4	.5	1.0	.8	1.1	.9	.1	0.0	6.4
19-24	0.0	.2	.2	0.0	0.0	0.0	0.0	0.0	0.0	.1	.2	.2	.3	.2	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	0.1	.1	0.0	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	0.0
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	4.2	3.0	1.9	1.8	3.9	9.7	12.1	9.1	6.2	3.9	3.8	4.6	5.1	9.0	12.6	8.4	.6	100.0

Station: (6) 200E

SPEED	DIRECTION														Total	Hours:	8734		
	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	2.8	2.8	
1-3	1.4	1.1	1.2	1.3	1.5	1.4	1.5	1.2	.9	.8	.8	1.2	1.4	1.9	2.1	1.2	0.0	20.7	
4-7	1.2	1.2	.7	.7	1.3	2.3	2.7	2.1	1.5	1.3	1.6	2.4	4.2	5.9	4.1	2.0	0.0	35.3	
8-12	.7	.7	.2	.1	.4	.6	1.1	1.4	.6	.5	1.1	2.7	4.6	8.4	2.4	.6	0.0	26.2	
13-18	.1	.3	.1	0.0	0.0	0.0	0.0	.1	.2	.3	.3	.9	1.7	1.5	4.3	1.2	.1	0.0	11.0
19-24	0.0	.2	0.0	0.0	0.0	0.0	0.0	0.0	.1	.1	.4	.6	.3	.9	.4	0.0	0.0	.3	
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.1	.2	.2	.1	.2	0.0	0.0	.9		
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	.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	3.4	3.5	2.2	2.1	3.1	4.4	5.4	4.8	3.4	3.0	5.1	8.9	12.1	21.6	10.2	4.0	2.8	100.0	

Station: (7) 200W

SPEED	DIRECTION														Total	Hours:	8734	
	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	1.2	1.2
1-3	2.3	2.0	1.6	1.5	1.7	1.6	1.7	1.6	1.5	1.2	1.5	1.7	2.9	3.7	3.4	2.5	0.0	32.3
4-7	3.1	1.7	1.0	.9	1.1	1.9	2.1	.8	.7	.8	1.1	1.7	3.5	6.6	6.2	3.5	0.0	36.6
8-12	1.0	.4	.1	.1	.2	.5	.4	.1	.3	.7	1.1	2.0	2.6	3.9	3.4	1.9	0.0	18.8
13-18	0.0	.2	.1	0.0	0.0	0.0	0.0	0.0	.2	.4	1.0	1.6	1.0	.8	1.8	.5	0.0	7.7
19-24	0.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	.2	.5	.7	.3	.1	.7	0.0	0.0	0.0	2.6
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.1	.2	.2	.1	0.0	.1	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	.1	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	4.5	2.8	2.5	3.0	4.0	4.3	2.6	2.6	3.3	5.5	7.8	10.4	15.1	15.6	8.5	1.2	100.0

Station: (8) BVLY

SPEED	DIRECTION														Total	Hours:	8719	
	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	.9	.9
1-3	3.6	2.7	1.9	1.7	1.8	2.1	1.9	1.4	1.6	1.1	1.1	.9	1.3	2.4	2.9	0.0	30.4	
4-7	9.6	2.6	.6	.3	1.9	3.7	1.4	1.0	1.1	.8	.7	1.7	3.4	5.7	7.3	0.0	42.6	
8-12	3.9	1.2	.1	0.0	.3	.5	.2	.2	.3	.5	.6	1.3	4.7	4.3	1.0	0.0	19.2	
13-18	0.0	.2	.1	0.0	0.0	0.0	0.0	0.0	.2	.4	.6	.2	.3	2.2	1.5	0.0	0.0	5.8
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.1	.2	.1	.1	.2	.1	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	.1	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	17.2	6.6	2.7	2.1	4.0	6.3	3.5	2.8	3.1	2.8	3.2	2.6	4.7	12.3	14.0	11.3	.9	100.0

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

SPEED	DIRECTION															Total	Hours:	8728
	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	.3	.3
1-3	1.2	1.0	.9	.7	.8	.9	.9	1.0	1.0	1.0	1.0	.8	1.1	1.1	1.2	1.0	0.0	15.6
4-7	3.1	3.1	2.0	1.3	1.1	1.3	2.5	3.6	4.0	3.7	2.2	1.6	1.1	1.5	3.0	3.4	0.0	38.4
8-12	1.3	1.3	.6	.2	.2	.4	1.1	3.8	4.5	4.7	1.9	1.0	.8	1.2	3.0	3.3	0.0	29.4
13-18	.3	.2	.2	0.0	0.0	0.0	.1	.4	1.0	3.3	2.1	.8	.4	.6	1.9	.5	0.0	12.0
19-24	0.0	.1	.1	.0	0.0	0.0	0.0	0.0	.1	.6	.9	.4	.3	.2	.4	0.0	0.0	3.1
25-31	0.0	0.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	.1	.3	.2	.1	0.0	.1	0.0	0.0	.9
32-38	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	.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	.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	5.8	3.9	2.3	2.1	2.6	4.6	8.8	10.7	13.4	8.5	4.8	3.9	4.6	9.5	8.3	.3	100.0

Station: (10) YAKB

SPEED	DIRECTION															Total	Hours:	8734
	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	.5	.5
1-3	1.4	1.4	1.3	.9	.9	.9	.8	1.0	1.0	1.0	.9	1.5	1.9	1.5	1.5	1.3	0.0	19.2
4-7	3.7	3.0	1.6	1.0	.9	1.1	1.6	1.4	.8	.9	1.4	3.5	7.1	4.2	3.3	3.8	0.0	39.3
8-12	1.3	.6	.2	.1	.1	.2	.2	.2	.3	.5	1.9	2.9	4.7	3.5	5.6	3.0	0.0	25.4
13-18	0.0	.1	.1	0.0	0.0	0.0	0.0	0.0	.2	.5	1.3	1.8	.6	1.3	3.5	.8	0.0	10.5
19-24	0.0	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	.2	.7	.6	.2	.7	1.3	.1	0.0	3.9
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.1	.3	.1	0.0	.4	.2	0.0	0.0	1.1
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	.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	6.5	5.2	3.2	2.0	1.9	2.2	2.7	2.5	2.3	3.3	6.6	10.4	14.6	11.7	15.5	9.0	.5	100.0

Station: (11) 300A

SPEED	DIRECTION															Total	Hours:	8731
	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	.5	.5
1-3	1.1	.8	.7	.6	.9	1.3	1.6	1.8	1.6	1.2	1.1	.8	1.0	1.1	1.8	1.7	0.0	19.1
4-7	3.2	1.3	1.1	1.3	1.9	4.7	7.2	3.7	2.8	2.6	1.9	1.2	.8	1.0	2.1	3.9	0.0	40.9
8-12	2.8	1.7	.8	.4	.5	1.4	2.0	1.1	1.9	3.8	3.1	1.6	.5	.4	1.1	2.4	0.0	25.6
13-18	.5	.4	.1	0.0	0.0	0.0	.1	.2	.4	1.6	2.8	1.4	.5	.1	1.0	1.0	0.0	10.0
19-24	0.0	.1	.1	0.0	0.0	0.0	0.0	0.0	.1	.4	1.0	.5	.2	0.0	.2	.1	0.0	2.8
25-31	0.0	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	.1	.4	.1	.1	0.0	.1	0.0	0.0	.9
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.1	.1	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	7.5	4.6	2.9	2.4	3.3	7.4	10.9	6.9	6.7	9.7	10.4	5.7	3.1	2.7	6.3	9.1	.5	100.0

Station: (12) WYEB

SPEED	DIRECTION															Total	Hours:	8734
	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	.4	.4
1-3	1.7	1.3	1.3	1.1	1.6	1.3	1.3	1.1	.9	.8	1.0	1.2	1.3	1.5	1.3	0.0	20.1	
4-7	4.1	2.2	1.2	1.4	2.3	2.5	3.3	3.7	3.8	2.2	1.6	1.6	2.3	3.1	3.5	2.7	0.0	41.6
8-12	1.9	.8	.3	.3	.4	.7	1.7	2.8	3.1	1.7	.9	1.3	1.9	3.3	2.8	1.5	0.0	25.3
13-18	.5	.5	.1	0.0	0.0	0.0	.1	.5	1.6	1.3	.8	.5	.8	.9	1.1	.3	0.0	9.2
19-24	.1	.2	.1	0.0	0.0	0.0	0.0	0.0	.2	.5	.4	.4	.2	.2	.4	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	.2	.2	.1	0.0	0.0	.1	0.0	0.0	.6
32-38	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	.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	8.3	5.1	3.1	2.8	4.2	4.6	6.5	8.3	9.8	6.7	4.9	4.8	6.5	8.8	9.4	5.8	.4	100.0

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

SPEED	DIRECTION															Total	Hours:	8732	
	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	.8	.8	
1-3	2.2	2.0	2.3	2.7	3.1	3.0	2.4	1.5	1.3	1.2	1.7	2.0	2.9	2.9	2.5	0.0	36.5		
4-7	1.4	1.9	1.8	2.6	3.5	3.0	2.2	1.4	.8	.9	2.1	3.8	5.0	3.1	2.1	1.4	0.0	37.0	
8-12	.5	.9	.6	.2	.3	.6	.8	.5	.4	.6	1.2	2.3	3.3	2.3	.7	.3	0.0	15.4	
13-18	.2	.4	.3	.1	.1	.1	.2	.1	.2	.2	.9	.7	1.3	1.9	.8	.1	0.0	7.4	
19-24	.1	.2	.1	0.0	0.0	0.0	0.0	0.0	0.0	.1	.2	.3	.2	.2	.4	0.0	0.0	2.4	
25-31	0.0	0.0	.1	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	.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	4.4	5.4	5.1	5.5	7.0	6.7	5.4	3.6	2.8	3.1	6.2	8.9	12.7	10.7	7.0	4.4	.8	100.0	

Station: (14) WPPS

SPEED	DIRECTION															Total	Hours:	8734	
	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	1.2	1.2	
1-3	2.5	2.0	1.8	1.2	.9	.7	1.3	1.5	1.6	1.3	1.2	.9	1.2	1.1	2.3	2.3	0.0	23.6	
4-7	3.7	2.3	2.6	1.2	.6	.9	2.0	4.5	4.9	2.5	1.8	1.3	1.3	1.7	4.2	4.4	0.0	40.0	
8-12	1.0	.8	.4	.3	.1	.4	1.2	2.8	4.5	2.9	1.4	1.1	1.2	1.7	2.6	1.7	0.0	23.9	
13-18	.2	.2	.2	0.0	0.0	0.0	.1	.2	.9	2.1	1.1	.6	.5	.8	1.2	.3	0.0	8.5	
19-24	0.0	.2	.1	0.0	0.0	0.0	0.0	0.0	.1	.5	.5	.3	.2	.1	.2	0.0	0.0	2.2	
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.1	.3	0.0	.1	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	.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	7.3	5.6	5.1	2.7	1.7	1.9	4.6	9.0	12.0	9.2	6.3	4.2	4.5	5.5	10.5	8.6	1.2	100.0	

Station: (15) FRNK

SPEED	DIRECTION															Total	Hours:	8734	
	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	.4	.4	
1-3	1.4	1.2	1.1	.8	1.0	1.0	1.4	1.3	1.0	.8	1.0	1.0	1.0	1.2	1.5	1.4	0.0	18.0	
4-7	4.4	2.8	1.7	1.3	1.6	3.3	5.8	4.7	3.4	3.2	2.7	1.5	1.4	1.7	5.0	5.9	0.0	50.3	
8-12	1.1	.5	.2	.3	.3	.8	2.3	2.0	3.0	5.0	3.6	.9	.5	.4	1.6	2.0	0.0	24.5	
13-18	.1	.1	.4	.1	0.0	0.0	0.0	.1	.4	2.0	1.7	.5	.2	0.0	.1	0.0	0.0	5.9	
19-24	0.0	0.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	.3	.3	.1	.1	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	.1	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	6.9	4.6	3.5	2.4	3.0	5.1	9.6	8.0	7.7	11.4	9.3	4.1	3.3	3.3	8.2	9.3	.4	100.0	

Station: (16) GABL

SPEED	DIRECTION															Total	Hours:	8678		
	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	.7	.7		
1-3	.8	.8	.7	.5	.5	.7	.9	1.0	.8	.8	.7	.5	.7	.7	.8	0.0	11.2			
4-7	2.2	2.2	1.5	.9	.9	.8	1.3	2.1	3.2	2.1	1.7	1.4	1.4	1.4	1.9	2.0	0.0	27.1		
8-12	1.9	2.5	1.3	.2	.5	.8	1.0	2.3	2.7	1.6	1.6	1.7	1.9	2.5	2.8	1.8	0.0	27.1		
13-18	1.2	1.3	.4	.2	.1	.1	.4	1.3	1.5	.9	1.7	1.8	1.8	3.1	2.3	1.0	0.0	18.7		
19-24	.3	.5	.3	0.0	0.0	0.0	0.0	.1	.3	.5	.5	1.0	.9	.9	2.7	1.6	.1	0.0	9.7	
25-31	.1	.1	.2	0.0	0.0	0.0	0.0	.1	.2	.4	.6	.4	.1	1.2	.3	0.0	0.0	3.8		
32-38	0.0	0.0	.2	0.0	0.0	0.0	0.0	0.0	.1	.2	.3	.2	0.0	.2	0.0	0.0	0.0	1.3		
39-46	0.0	0.0	.1	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	0.0	.3	
> 46	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	0.0	.1	
TOTAL	6.4	7.4	4.6	1.8	2.0	2.2	3.4	7.0	9.3	6.5	7.8	7.0	6.7	12.0	9.6	5.6	.7	100.0		

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

SPEED	DIRECTION															Total	Hours	8728
	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	.7	.7
1-3	1.4	3.1	5.7	2.5	1.4	.9	1.0	.9	1.0	1.2	1.3	1.7	1.8	1.2	1.1	1.2	0.0	27.2
4-7	2.1	2.6	13.8	4.1	1.9	1.3	1.6	1.6	2.1	2.7	2.1	2.6	2.2	1.0	1.0	1.5	0.0	44.1
8-12	1.6	.7	.8	.3	.1	.1	.4	.8	1.3	4.2	2.0	1.3	1.6	1.7	1.1	1.0	0.0	19.2
13-18	.4	.2	.3	0.0	0.0	0.0	0.0	.1	.3	1.2	1.0	.7	.7	1.6	.2	.1	0.0	6.7
19-24	.1	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	.2	.5	.2	.1	.2	0.0	0.0	0.0	1.5
25-31	0.0	0.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	.1	.2	.1	.1	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	.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	5.5	6.8	20.7	7.0	3.4	2.3	3.0	3.4	4.6	9.5	7.2	6.6	6.4	5.7	3.4	3.8	.7	100.0

Station: (18) RICH

SPEED	DIRECTION															Total	Hours	8734
	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	1.4	.8	.8	1.0	1.7	2.6	3.5	2.8	2.3	1.9	2.2	1.9	2.3	2.6	2.6	1.7	0.0	32.2
4-7	2.3	.9	.7	1.1	1.9	3.3	4.2	1.9	1.9	3.2	4.1	3.0	1.8	2.4	3.0	2.7	0.0	38.5
8-12	1.2	.5	.4	.2	.2	.1	.3	.2	.9	2.8	4.1	2.5	1.4	.9	1.0	1.5	0.0	18.2
13-18	.3	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	2.1	1.1	2.1	.9	.3	.7	.7	0.0	7.8
19-24	0.0	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	.1	.2	.6	.3	.2	.1	.1	0.0	1.9
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.1	.1	.1	.1	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	5.2	2.5	2.1	2.4	3.9	5.9	8.0	4.9	5.3	9.3	13.3	8.9	6.7	6.2	7.5	6.9	1.0	100.0

Station: (19) PFP

SPEED	DIRECTION															Total	Hours	8734
	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	1.8	1.8
1-3	3.9	3.0	1.8	1.5	1.4	1.6	1.9	1.6	1.8	1.6	1.9	2.9	4.4	5.4	4.2	3.3	0.0	42.1
4-7	3.0	2.0	.7	.6	.8	1.5	2.0	.7	.5	.8	1.0	2.1	5.0	6.7	5.3	3.8	0.0	36.4
8-12	.4	.5	.1	.1	.2	.3	.3	.1	.4	.6	1.5	2.4	1.7	2.7	1.1	0.0	0.0	14.1
13-18	0.0	.2	.1	0.0	0.0	0.0	0.0	0.0	.1	.4	1.0	1.4	.5	.1	.8	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	.1	.4	.3	.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	.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	5.7	2.8	2.2	2.4	3.3	4.2	2.4	2.7	3.4	5.9	9.0	11.7	13.9	13.0	8.2	1.8	100.0

Station: (20) RMTN

SPEED	DIRECTION															Total	Hours	8734
	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	.1
1-3	.4	.6	.4	.2	.2	.3	.3	.2	.3	.4	.6	.4	.3	.3	.4	.3	0.0	5.6
4-7	1.0	1.3	.9	.8	.7	.5	.3	.4	.8	1.6	1.8	1.3	.9	.6	.6	.8	0.0	14.3
8-12	2.0	2.6	1.4	.6	.3	.2	.2	.3	.7	2.1	3.4	2.0	1.3	.9	.8	1.0	0.0	19.8
13-18	2.7	3.6	1.0	.1	.1	0.0	0.0	.1	.2	2.4	5.2	2.5	1.8	.8	.7	.9	0.0	22.4
19-24	1.1	2.2	.6	.1	0.0	0.0	0.0	0.0	.2	1.4	4.7	3.1	.9	.3	.4	.2	0.0	15.2
25-31	.3	1.1	.2	0.0	0.0	0.0	0.0	0.0	.1	.6	4.6	2.4	.4	.1	.1	0.0	0.0	9.8
32-38	.1	.6	.1	0.0	0.0	0.0	0.0	0.0	.2	4.0	1.6	.1	0.0	0.0	0.0	0.0	0.0	6.7
39-46	0.0	.3	.1	0.0	0.0	0.0	0.0	0.0	.1	2.2	.7	0.0	0.0	0.0	0.0	0.0	0.0	3.5
> 46	0.0	.4	.4	0.0	0.0	0.0	0.0	0.0	.1	1.2	.7	0.0	0.0	0.0	0.0	0.0	0.0	2.7
TOTAL	7.7	12.6	5.1	1.9	1.3	1.1	.9	1.0	2.3	8.7	27.8	14.7	5.6	3.1	3.0	3.2	.1	100.0

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

SPEED	DIRECTION												Total	Hours:	8734			
	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	.5	.5
1-3	1.9	1.4	1.6	1.2	1.0	1.2	1.2	1.1	1.0	.9	1.1	1.2	1.5	1.5	2.1	2.0	0.0	22.1
4-7	2.0	1.4	1.2	1.0	1.4	1.7	2.1	1.8	1.4	1.8	2.4	4.5	5.4	6.4	7.2	3.4	0.0	45.0
8-12	.4	.6	.3	.1	.2	.1	.1	.3	.4	.8	1.8	3.3	2.8	5.0	4.8	.8	0.0	21.8
13-18	0.0	.2	.2	0.0	0.0	0.0	0.0	0.0	.3	.5	1.3	1.3	.6	1.2	2.6	0.0	0.0	8.3
19-24	0.0	0.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	.2	.5	.5	.2	.2	.4	0.0	0.0	2.1
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.1	.1	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	4.3	3.6	3.3	2.2	2.6	3.0	3.4	3.3	3.1	4.1	7.2	10.9	10.6	14.4	17.1	6.3	.5	100.0

Station: (22) PASC

SPEED	DIRECTION												Total	Hours:	8723			
	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	1.1	1.1
1-3	5.4	2.9	2.5	2.3	2.5	2.6	2.4	1.8	1.4	1.1	1.1	1.0	1.7	2.1	3.7	7.2	0.0	41.7
4-7	2.4	1.1	.6	.5	.7	1.7	2.0	1.9	2.0	3.1	4.0	2.6	2.0	2.0	3.3	4.4	0.0	34.3
8-12	.5	.2	.1	.1	0.0	.1	.1	.1	.4	2.4	5.4	2.6	.8	.4	.9	1.1	0.0	15.3
13-18	.1	.2	.1	0.0	0.0	0.0	0.0	0.0	.1	.5	3.1	1.6	.4	.1	.1	0.0	0.0	6.2
19-24	0.0	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.5	.4	.1	0.0	0.0	0.0	0.0	0.0	1.2
25-31	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	.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	8.4	4.5	3.4	2.9	3.3	4.4	4.5	3.7	3.9	7.0	14.2	8.2	5.1	4.6	8.1	12.7	1.1	100.0

Station: (23) GABW

SPEED	DIRECTION												Total	Hours:	8734			
	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	1.6	1.3	1.2	1.4	1.5	1.5	2.1	2.3	2.1	1.4	1.5	1.6	2.6	3.6	2.8	2.0	0.0	30.5
4-7	1.5	1.1	.7	.9	1.2	1.4	3.7	4.7	1.6	1.0	1.3	1.6	3.4	7.8	3.2	1.9	0.0	36.9
8-12	.4	.6	.2	.1	.2	.3	1.5	1.0	.3	.5	1.3	2.3	3.5	6.3	1.4	.3	0.0	20.5
13-18	0.0	.2	.2	0.0	0.0	.0	.1	.1	.3	.3	.9	1.3	.9	3.8	.7	0.0	0.0	8.9
19-24	0.0	.1	.1	0.0	0.0	0.0	0.0	0.0	0.0	.1	.3	.3	.1	.7	.1	0.0	0.0	1.8
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.1	.1	0.0	.1	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	3.3	2.4	2.5	3.0	3.3	7.4	8.1	4.4	3.3	5.3	7.2	10.5	22.4	8.2	4.2	1.0	100.0

Station: (24) 100F

SPEED	DIRECTION												Total	Hours:	8734			
	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	1.3	1.3
1-3	1.8	1.4	1.2	.9	1.4	1.8	2.3	2.5	2.0	1.6	2.0	2.4	3.2	3.8	3.4	2.6	0.0	34.4
4-7	2.2	1.3	1.1	1.1	1.3	1.8	5.0	5.2	1.6	.9	1.0	1.6	3.3	4.3	2.9	2.3	0.0	36.9
8-12	1.0	.7	.2	.2	.2	.7	3.0	2.3	.7	.6	1.1	1.8	2.4	2.6	.6	.6	0.0	18.7
13-18	.2	.3	.1	0.0	0.0	0.0	.3	.3	.4	.4	.7	.9	.8	1.6	.6	.1	0.0	6.6
19-24	0.0	.2	.1	0.0	0.0	0.0	0.0	0.0	.1	.1	.3	.3	.2	.3	.1	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	.1	.1	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	5.1	3.7	2.8	2.3	3.0	4.3	10.6	10.4	4.7	3.6	5.2	7.1	10.0	12.6	7.7	5.5	1.3	100.0

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

SPEED	DIRECTION															Total	Hours:	8734
	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	1.2	1.3	1.2	1.5	2.0	2.0	1.3	1.1	0.9	0.9	1.1	2.1	2.7	1.4	1.1	1.1	0.0	22.9
4-7	0.9	1.6	2.6	3.0	3.1	2.0	1.0	0.5	0.4	0.5	0.7	3.9	8.3	4.0	2.0	1.1	0.0	35.7
8-12	0.5	0.3	0.3	0.5	0.4	0.3	0.1	0.1	0.3	0.5	0.8	2.0	8.3	7.6	2.7	0.8	0.0	25.5
13-18	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.8	0.7	2.3	5.4	1.8	0.1	0.0	12.0
19-24	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.3	0.5	0.9	0.4	0.0	0.0	0.0	2.9
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	0.1	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	0.0
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	2.8	3.6	4.3	5.0	5.5	4.3	2.5	1.7	1.7	2.4	3.8	9.1	22.2	19.4	8.0	3.1	0.6	100.0

Station: (26) BENT

SPEED	DIRECTION															Total	Hours:	8670
	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	0.3	0.3
1-3	0.9	0.9	0.9	1.0	0.9	0.7	0.7	0.5	0.7	0.9	1.3	2.2	3.0	2.2	1.6	1.2	0.0	19.4
4-7	1.3	1.1	1.4	2.1	2.2	1.0	0.3	0.2	0.6	1.6	6.5	13.1	13.5	6.4	3.0	2.2	0.0	56.4
8-12	0.5	0.6	0.9	0.6	0.5	0.1	0.0	0.0	0.2	1.0	3.2	4.8	3.3	1.8	1.0	0.4	0.0	18.8
13-18	0.2	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	0.4	0.4	0.1	0.0	0.0	0.0	3.8
19-24	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.1	0.0	0.0	0.0	0.0	0.0	1.1
25-31	0.0	0.1	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	0.0
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	3.5	3.8	3.6	3.7	1.9	1.0	0.7	1.4	4.0	12.6	20.6	20.3	10.4	5.6	3.8	0.3	100.0

Station: (27) VSTA

SPEED	DIRECTION															Total	Hours:	8701
	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	2.0	2.1	2.2	1.7	1.6	2.0	2.2	1.7	2.3	2.7	2.9	2.5	2.1	2.1	1.9	1.8	0.0	33.9
4-7	2.6	1.8	1.6	1.3	0.8	1.3	1.1	1.3	2.1	4.6	6.2	3.5	2.1	2.7	3.2	3.2	0.0	39.3
8-12	0.4	0.2	0.1	0.0	0.0	0.1	0.0	0.1	0.6	3.9	6.3	2.6	0.8	0.3	0.9	0.9	0.0	17.2
13-18	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.2	1.3	4.4	0.9	0.3	0.1	0.0	0.1	0.0	0.0	7.5
19-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0	1.4
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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	5.0	4.2	4.0	3.0	2.4	3.4	3.3	3.1	5.1	12.6	21.0	9.8	5.3	5.2	6.0	6.0	0.6	100.0

Station: (28) SURF

SPEED	DIRECTION															Total	Hours:	8734
	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	0.4	0.7	1.5	1.5	1.0	0.6	0.7	0.6	1.1	1.9	3.2	3.3	1.7	0.6	0.4	0.3	0.0	19.3
4-7	0.1	0.5	2.3	4.3	2.0	0.5	0.2	0.1	0.3	0.9	4.0	6.0	1.5	0.1	0.0	0.0	0.0	23.0
8-12	0.1	0.5	1.5	2.9	0.6	0.0	0.0	0.0	0.0	0.1	5.7	10.9	4.0	0.3	0.0	0.0	0.0	26.9
13-18	0.1	0.4	0.2	0.5	0.1	0.0	0.0	0.0	0.0	2.2	9.7	5.7	0.5	0.1	0.0	0.0	0.0	19.5
19-24	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	4.1	2.8	0.3	0.0	0.0	0.0	0.0	7.9
25-31	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	0.1	0.0	0.0	0.0	0.0	2.7
32-38	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
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	2.2	5.6	9.3	3.7	1.2	0.9	0.7	1.4	2.9	15.5	35.3	17.0	2.0	0.5	0.4	0.5	100.0

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

SPEED	DIRECTION															Total Hours:	8731	
	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	2.8	2.8
1-3	2.2	1.9	1.8	1.8	1.8	1.8	1.9	1.4	1.5	1.3	1.8	2.7	3.7	2.9	2.8	2.6	0.0	33.8
4-7	1.7	1.1	0.8	1.0	1.4	1.7	1.6	1.7	1.2	0.8	1.7	4.6	6.8	3.3	2.2	1.7	0.0	33.2
8-12	0.5	0.8	0.3	0.1	0.2	0.6	0.8	0.7	0.3	0.5	1.4	3.4	5.7	2.6	0.9	0.4	0.0	19.4
13-18	0.1	0.2	0.2	0.0	0.0	0.1	0.0	0.1	0.2	0.4	1.2	1.1	1.9	2.2	0.7	0.0	0.0	8.4
19-24	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.2	0.4	0.6	0.0	0.0	0.0	2.1
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	0.1	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	4.5	4.1	3.4	3.0	3.5	4.2	4.3	4.0	3.3	3.2	6.5	12.0	18.5	11.7	6.6	4.7	2.8	100.0

Station: (30) HAMR

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	0.3	0.3
1-3	1.3	0.7	0.8	0.7	0.9	1.0	2.1	2.3	2.1	1.7	1.4	1.2	1.3	1.3	1.6	1.3	0.0	21.7
4-7	4.1	1.8	0.6	0.8	1.0	2.0	4.9	3.9	4.3	3.8	4.1	3.0	1.7	1.7	2.9	3.8	0.0	44.5
8-12	2.2	0.8	0.2	0.1	0.3	0.3	0.4	0.4	1.3	3.5	6.5	2.4	0.6	0.6	1.3	2.3	0.0	23.1
13-18	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.9	2.5	1.2	0.6	0.1	1.2	0.9	0.0	8.2
19-24	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.5	0.3	0.1	0.0	0.3	0.1	0.0	1.7
25-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	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	0.0
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	8.0	3.7	1.7	1.7	2.2	3.3	7.4	6.6	8.0	10.1	15.3	8.2	4.4	3.6	7.3	8.2	0.3	100.0

Table B.2. Joint Frequency Distributions (%) for Hanford Meteorological Monitoring Network Wind Stations at 60 Meters, 2003

Tower: 100 Area

SPEED	N	NNE	NE	ENE	E	ESE	SE	SSE	S	DIRECTION										Total Hours:	TOTAL
										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	1.7	1.7	1.9	2.2	3.6	3.0	2.1	1.6	1.2	1.0	1.2	1.4	1.9	1.8	1.8	1.8	0.0	30.0			
4-7	1.6	1.9	1.7	2.2	3.4	3.7	2.8	1.8	1.1	0.6	1.3	1.8	2.9	3.2	2.5	1.5	0.0	34.0			
8-12	0.6	0.8	0.8	0.4	0.4	1.0	1.4	0.7	0.8	0.7	1.0	1.3	2.5	2.9	0.9	0.4	0.0	16.6			
13-18	0.3	0.6	0.3	0.0	0.1	0.1	0.6	0.5	0.6	0.6	0.8	0.7	2.5	3.2	0.7	0.2	0.0	11.7			
19-24	0.1	0.2	0.2	0.1	0.0	0.0	0.0	0.1	0.3	0.3	0.4	0.4	0.8	1.7	0.5	0.0	0.0	5.0			
25-31	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.1	0.2	0.4	0.2	0.0	0.0	1.9			
32-38	0.0	0.0	0.1	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	0.3			
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	4.3	5.2	5.1	4.9	7.5	7.9	7.0	4.8	4.2	3.4	5.0	5.7	10.7	13.3	6.5	3.9	0.5	100.0			

Tower: 200 Area

SPEED	N	NNE	NE	ENE	E	ESE	SE	SSE	S	DIRECTION										Total Hours:	TOTAL
										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	1.1	1.0	0.8	0.8	0.7	1.1	0.8	0.5	0.5	0.6	0.7	0.8	0.8	1.1	1.1	0.0	13.6			
4-7	2.3	1.5	1.5	1.4	1.4	2.0	1.7	1.0	1.0	1.2	1.3	2.0	2.8	4.5	3.2	0.0	30.2				
8-12	0.8	0.8	0.5	0.2	0.4	0.7	0.2	0.7	0.5	0.7	1.2	2.3	3.0	5.0	6.5	1.7	0.0	25.1			
13-18	0.1	0.3	0.2	0.0	0.1	0.0	0.0	0.3	0.2	0.5	1.2	2.6	2.2	5.3	5.7	0.5	0.0	19.2			
19-24	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.4	1.0	1.1	0.5	1.3	2.8	0.0	0.0	7.7			
25-31	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.5	0.5	0.2	0.3	1.0	0.0	0.0	3.1			
32-38	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	0.1	0.1	0.0	0.0	0.7			
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	0.2			
>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	4.4	3.9	3.4	2.5	2.6	2.8	3.3	3.5	2.5	3.5	6.1	8.6	8.8	15.6	21.6	6.5	0.3	100.0			

Tower: 300 Area

SPEED	N	NNE	NE	ENE	E	ESE	SE	SSE	S	DIRECTION										Total Hours:	TOTAL
										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	0.8	0.6	0.8	0.5	0.6	1.0	1.2	1.0	0.8	0.7	0.6	0.7	0.7	1.0	0.9	0.0	13.1				
4-7	2.2	1.6	1.2	1.1	1.7	2.9	4.2	3.4	3.0	3.0	2.3	1.3	1.0	0.9	1.6	2.2	0.0	33.6			
8-12	2.1	2.2	1.2	0.5	0.5	0.9	3.2	2.0	2.4	3.7	3.5	1.8	0.5	0.7	1.5	2.7	0.0	29.5			
13-18	0.8	0.6	0.2	0.0	0.1	0.0	0.3	0.2	0.5	2.3	4.0	1.8	0.3	0.4	1.2	2.0	0.0	14.9			
19-24	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.7	2.0	1.0	0.3	0.1	0.8	0.4	0.0	5.9			
25-31	0.0	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.7	0.4	0.1	0.0	0.2	0.0	0.0	2.1			
32-38	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	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	0.0	0.1	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	6.1	5.1	3.8	2.2	2.9	4.8	9.0	6.8	7.1	10.7	13.6	7.0	3.0	2.8	6.3	8.3	0.3	100.0			

Tower: 400 Area

SPEED	N	NNE	NE	ENE	E	ESE	SE	SSE	S	DIRECTION										Total Hours:	TOTAL
										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	0.2	0.2			
1-3	1.1	0.7	0.7	0.8	0.6	0.6	0.9	0.8	1.0	0.9	0.8	0.6	0.6	0.6	0.7	1.0	0.0	12.2			
4-7	2.6	2.3	1.5	1.0	0.9	1.1	1.8	2.7	3.1	2.5	1.7	0.9	1.2	1.2	1.9	2.3	0.0	28.7			
8-12	2.5	1.4	0.6	0.3	0.4	0.5	1.3	2.5	4.0	3.8	2.4	0.9	1.0	1.4	3.0	3.1	0.0	29.1			
13-18	0.9	0.3	0.2	0.1	0.0	0.0	0.3	0.8	1.9	3.9	2.7	1.0	0.6	1.1	3.3	1.6	0.0	18.6			
19-24	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.2	1.6	1.5	0.6	0.4	0.4	0.6	2.4	0.3	0.0	7.9			
25-31	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.3	0.7	0.3	0.2	0.2	0.4	0.0	0.0	0.0	2.5			
32-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.0	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	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2			
>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			
TOTAL	7.1	5.0	3.3	2.2	1.9	2.2	4.3	6.8	10.2	13.1	10.2	4.4	4.0	5.1	11.7	8.3	0.2	100.0			