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U. S. NAVAL WEATHER SERVICE COMMAND

# SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS

NORTH AMERICAN COASTAL MARINE AREAS

VOLUME 1

AREA 1 - ARGENTIA  
AREA 2 - BERMUDA  
AREA 3 - GUANTANAMO



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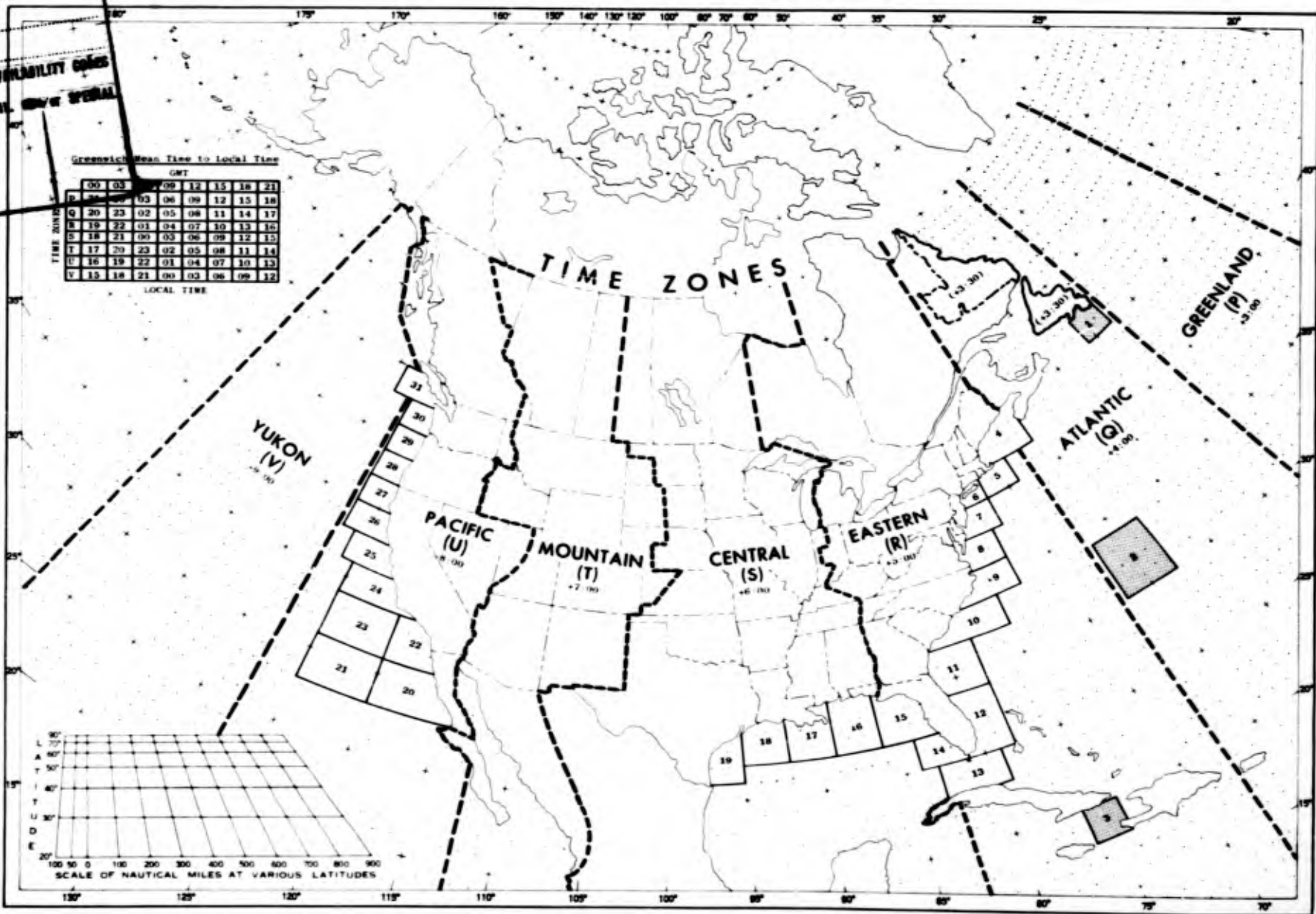
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North American Coastal SSMO Areas and Standard Time Zones. Shaded areas are included in this volume. A list of the area names and their boundaries appears on the inside back cover.

**U. S. NAVAL WEATHER SERVICE COMMAND**

**SUMMARY OF**

**SYNOPTIC METEOROLOGICAL OBSERVATIONS**

**NORTH AMERICAN COASTAL MARINE AREAS**

**VOLUME 1**

**AREA 1 - ARGENTIA**  
**AREA 2 - BERMUDA**  
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## SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

The data contained in these tables were obtained from tape data Family 11 (TDF-11), Marine Surface observations. TDF-11 was primarily funded by the Naval Weather Service Command and selected by NWSED Asheville as the most comprehensive collection of marine surface observations from which to develop a series of coastal marine summaries. The source was punched cards of weather observations taken aboard vessels of varying registry. They were recorded on magnetic tape in a common format. Elements not in WMO code were converted to this code where possible. Where this was not possible, the original data were retained within the tape record as supplemental data. A very limited quality control was attempted as the punched cards were converted to taped records and, where possible, missing psychrometric data were computed.

As the tables are prepared, twenty extreme values of temperature, pressure, sea surface temperature, and air-sea temperature difference are printed out for each month and parameters set up to exclude the obvious errors from the tables. This method is necessarily subjective since the only available record of many observations is the punched card from which the tape records were prepared. Frequently there is no concrete evidence to prove or disprove the validity of questionable data.

Also, it should be noted that these data are based upon observations made by ships in passage. Such ships tend to avoid bad weather when possible, thus biasing our data toward good weather samples.

Because the number of observations may vary from one table to the other, no absolute relationship exists between the tables. As an example, air temperature counts for Tables 13 and 17 may not be identical since only observations containing both air temperature and relative humidity were counted in Table 13 and only those with both temperature and air-sea temperature difference were counted in Table 17. No requirement for simultaneous recording of all elements was made.

The primary period of record is that period (extending back in time from the most recent data) during which eighty percent of the total number of observations were recorded. The overall period is the earliest to the latest observed data used in compiling the tables. Tables 18 and 19 were tabulated from source deck 128 only and the overall period indicates the period of record of this data source. The primary period for these tables is not shown.

### THE TABLES

Percentage frequencies are computed to hundredths and rounded to tenths. An asterisk (\*) indicates percentage frequency  $> 0$  and  $< .05$ . A value followed by a plus sign indicates greater than or equal to that value (8+ means 8 or greater). NH = low cloud amount (or middle cloud amount when low clouds are not present). The hours given in this publication are GMT.

Tables 1 through 19 appear in numerical order for each month, with the annual tables appearing after the tables for December. Tables 20 and 21 appear at the end of the entire series, after the annual summary for Table 19. The series of summaries appear in numerical order by area number.

**Table 1** - Percentage Frequency of Weather Occurrence by Wind Direction (16 pts.).

**Table 2** - Percentage Frequency of Weather Occurrence by Hour (GMT).

**Table 3** - Percentage Frequency of Wind Direction (16 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction (16 pts.).

**Table 3A** - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction.

**Table 4** - Percentage Frequency of Wind Speed by Hour (GMT). This table includes mean speed by hour.

**Table 5** - Percentage Frequency of Total Cloud Amount (Oktas) by Wind Direction (16 pts.). This table includes mean cloud amount by wind direction.

**Table 6** - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Wind Direction (16 pts.).

**Table 7** - Cumulative Percentage Frequency of Occurrence of Ceiling Height (feet, NH > 4/8) and Visibility (Nautical Miles).

**Table 7A** - Percentage Frequency of Low Cloud Amount (or Middle Cloud Amount if Low Clouds are not present), and Percentage Frequency of Sky Obscured. Amounts are in Oktas.

**Table 8** - Percentage Frequency of Wind Direction (16 pts.) vs. Occurrence or Non-Occurrence of Precipitation at Observation Time with Varying Values of Visibility (Nautical Miles).

**Table 9** - Percentage Frequency of Wind Direction (16 pts.) vs. Wind Speed (kts.) with Varying Values of Visibility (Nautical Miles).

**Table 10** - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Hour (GMT).

**Table 11** - Percentage Frequency of Visibility (Nautical Miles) by Hour (GMT).

**Table 12** - Cumulative Percentage Frequency of Ranges of Visibility (Nautical Miles) and Ceiling Height (feet, NH > 4/8) and NH < 5/8; by Hour (GMT).

**Table 13** - Percentage Frequency of Relative Humidity (%) by Air Temperature (° F.).

**Table 14** - Percentage Frequency of Wind Direction (8 pts.) by Air Temperature (° F.).

**Table 15** - Means, Extremes, and Percentiles of Air Temperature (° F.) by Hour (GMT). Extreme temperatures are the one maximum and one minimum value appearing in the marine data file. The Extremes may be unrepresentative due to sampling errors. Extrapolation from the percentile values usually gives a better estimate of expected extreme conditions.

**Table 16** - Percentage Frequency of Relative Humidity (%) by Hour (GMT).

**Table 17** - Percentage Frequency of Air Temperature (° F.) and the Occurrence of Fog vs. Air-Sea Temperature Difference (° F.).

Air-Sea Temperature Difference is:

Positive when the air is warmer than the sea surface; Negative when the air is cooler than the sea surface. In the table heading, the limits of the temperature ranges appear in a vertical arrangement along the top of the table.

**Table 18** - Percentage Frequency of Surface Wind Speed (kts.) and Direction (8 pts.) vs. Sea Height (feet). Source deck 128 for which data are available from mid-1963 was used for these tables. This deck represents the latest and most complete homogeneous source of wave data available. Here, only sea waves generated by local winds in the vicinity of the observer are summarized. This table continues for 2-1/2 pages for each month and 2-1/2 pages for the annual summary.

**Table 19** - Percentage Frequency of Wave Height (feet) vs. Wave Period (seconds). In this table when both sea and swell waves are present in an observation, the higher of the two is used. If both are the same height, the longer period is chosen. When only one of the wave groups is observed, either sea or swell, it is used in the summary. Swell waves are those generated by winds distant from the local area where the observation is taken.

**Table 20** - Monthly and Annual Percentage Frequencies and Means of Sea Surface Temperature (° F).

**Table 21** - Monthly and Annual Sea Level Pressures (millibars). This table includes means by hour and for all hours, extreme values with the corresponding dates of occurrence and percentile values.

Tables 1-19 appear together for each month and in the annual summary. The following two tables appear at the end of the entire series for each area.

#### CONTENTS

AREA	NAME	PAGE
1	Argentia	1 - 158
2	Bermuda	159 - 316
3	Guantanamo	317 - 474

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WIND AND WEATHER CODES

CONVERSION OF WIND DIRECTION  
TO 8 AND 16 POINTS

8 POINTS	16 POINTS	36 POINTS	32 POINTS
N	{ N NNE	35,36,01 02,03	32,01 02,03
NE	{ NE ENE	04,05 06,07	04,05 06,07
E	{ E ESE	08,09,10 11,12	08,09 10,11
SE	{ SE SSE	13,14 15,16	12,13 14,15
S	{ S SSW	17,18,19 20,21	16,17 18,19
SW	{ SW WSW	22,23 24,25	20,21 22,23
W	{ W WNW	26,27,28 29,30	24,25 26,27
NW	{ NW NNW	31,32 33,34	28,29 30,31
VAR	VAR	99	---
CALM	CALM	00	00

VAR-VARIABLE

VISIBILITY (VV)  
INTERPRETATION  
(NAUTICAL MILES)

CODE	INTERPRETATION (NAUTICAL MILES)
90-93	$VV < 1/2$
94	$1/2 \leq VV < 1$
95	$1 \leq VV < 2$
96	$2 \leq VV < 5$
97	$5 \leq VV < 10$
98	$10 \leq VV < 25$
99	$\geq 25$

NOTE: <means less than;  
>means greater than;  
≤means less than or  
equal to; ≥means  
greater than or equal  
to.

PRESENT WEATHER (1960 WMO CODE 4677)

CODE	INTERPRETATION	CODE	INTERPRETATION
58-59 60-65 91-94 68-69, (95,97 IF TEMP >40°F)	RAIN	13-17 95-99)	THUNDER LIGHTNING THUNDERSTORM
80-84)		10-12) 40-49)	FOG
50-55, 58-59)		04-05)	SMOKE HAZE
56-57) 66-67)		06-09) 30-39)	DUST BLOWING DUST BLOWING SNOW
70-75, 83-86 (68-69, 95, 97 IF TEMP ≤40°F)	SNOW	00-03) 14-16) 18-29)	NO SIGNIFICANT WEATHER AT OB TIME
76-79 )		00-49)	NO PRECIPITATION AT OB TIME
87-90) 93-94) 96, 99)	HAIL	50-99)	PRECIPITATION AT OB TIME

NOTE: The following WMO codes were counted in two  
weather categories. 58-59 (rain and drizzle);  
68-69 (rain and snow); 96 and 99 (hail and  
thunder/lightning/thunderstorm); 95 and 97  
(snow and thunder/lightning/thunderstorm),  
or (rain and thunder/lightning/thunderstorm).

**WAVE HEIGHT (from source deck 128)**

RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)
00	≤.25}	<1
01	>.25 to .75}	1-2
02	>.75 to 1.25}	3-4
03	>1.25 to 1.75}	5-6
04	>1.75 to 2.25}	7
05	>2.25 to 2.75}	8-9
06	>2.75 to 3.25}	10-11
07	>3.25 to 3.75}	12
08	>3.75 to 4.25}	13-16
09	>4.25 to 4.75}	
10	>4.75 to 5.25}	17-19
11	>5.25 to 5.75}	

RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)
12	>5.75 to 6.25}	20-22
13	>6.25 to 6.75}	
14	>6.75 to 7.25}	23-25
15	>7.25 to 7.75}	
16	>7.75 to 8.25}	26-32
17	>8.25 to 8.75}	
18	>8.75 to 9.25}	
19	>9.25 to 9.75}	
20	>9.75 to 10.25}	33-40
21	>10.25 to 10.75}	
22	>10.75 to 11.25}	
23	>11.25 to 11.75}	
24	>11.75 to 12.25}	
25	>12.25 to 12.75}	41-48
26	>12.75 to 13.25}	
27	>13.25 to 13.75}	
28	>13.75 to 14.25}	
29	>14.25 to 14.75}	

RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)
>30	14.75 to 15.25}	49-60
>31	15.25 to 15.75}	
>32	15.75 to 16.25}	
>33	16.25 to 16.75}	
>34	16.75 to 17.25}	
>35	17.25 to 17.75}	
>36	17.75 to 18.25}	
>37	18.25 to 18.75}	61-70
>38	18.75 to 19.25}	
>39	19.25 to 19.75}	
>40	19.75 to 20.25}	
>41	20.25 to 20.75}	
>42	20.75 to 21.25}	
>43	21.25 to 21.75}	71-86
>44	21.75 to 22.25}	
>45	22.25 to 22.75}	
>46	22.75 to 23.25}	
>47	23.25 to 23.75}	
>48	23.75 to 24.25}	
>49	24.25 to 24.75}	
>50	24.75 to 25.25}	
>51	25.25 to 25.75}	
>52	25.75 to 26.25}	
>53-99	26.25 to 49.75}	≥87

Indeterminate-INDET



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PERIOD: (PRIMARY) 1950-1968  
(OVER-ALL) 1878-1968

JANUARY

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT FREQ PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FGG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
N	.0	.1	.2	.0	.3	.1	.0	13	.0	.4	.0	.0	.0	7	92	.8
NNE	.3	.1	.1	.0	1.0	.0	.0	27	.0	.2	.0	.0	.0	4	73	1.6
NE	.3	.0	.2	.0	.6	.1	.0	20	.0	.3	.1	.0	.0	7	75	1.2
ENE	.1	.0	.1	.0	.6	.0	.0	14	.0	.2	.0	.0	.0	3	50	.8
E	.6	.0	.1	.0	.4	.0	.0	20	.0	.3	.0	.1	.0	6	73	1.2
ESE	.5	.0	.1	.0	.3	.0	.0	16	.0	.2	.0	.0	.0	4	58	.9
SE	.6	.0	.3	.0	.6	.0	.0	26	.0	1.1	.1	.0	.0	20	86	1.5
SSE	.7	.0	.2	.0	.2	.0	.0	19	.0	.2	.0	.1	.0	5	49	1.1
S	1.8	.1	.3	.0	.6	.0	.0	48	.0	.3	.1	.0	.0	6	95	2.8
SSW	.9	.0	.3	.0	.6	.0	.0	30	.0	.3	.0	.0	.0	6	77	1.7
SW	.2	.1	.1	.1	.7	.0	.1	22	.0	.6	.1	.1	.0	13	115	1.3
WSW	.3	.1	.0	.0	1.5	.1	.0	32	.1	.5	.1	.0	.0	12	155	1.9
W	.1	.1	.2	.0	3.3	.0	.1	65	.1	.6	.0	.0	.0	11	302	3.8
WNW	.2	.1	.2	.1	2.3	.1	.0	48	.0	.2	.1	.1	.0	7	175	2.8
NW	.2	.1	.2	.1	1.3	.0	.0	32	.0	.2	.1	.1	.0	6	156	1.9
NNW	.2	.0	.1	.0	.5	.0	.0	13	.0	.1	.0	.1	.0	2	78	.8
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0	1	.0
CALM	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.0	.0	.0	1	9	.0
TOT	121	9	47	3	258	5	2	445	2	103	9	6	120	1719		.0
PCT	7.0	.5	2.7	.2	15.0	.3	.1	25.9	.1	6.0	.5	.3	7.0	100.0		25.9

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT FREQ PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FGG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
00003	2.2	.0	.6	.0	4.4	.1	.0	126	.0	2.4	.2	.1	.0	46	484	7.3
06009	1.5	.1	.7	.1	3.4	.1	.0	102	.0	.8	.0	.1	.0	16	407	5.9
12015	1.4	.2	.5	.1	3.7	.2	.0	105	.1	.9	.1	.1	.0	18	409	6.1
18021	1.9	.2	.9	.0	3.4	.0	.1	113	.1	1.9	.2	.1	.0	40	428	6.5
TOT	122	9	47	3	258	5	2	446	2	103	9	6	120	1728		.0
PCT	7.1	.5	2.7	.2	14.9	.3	.1	25.8	.1	6.0	.5	.3	6.9	100.0		25.8

JANUARY

PERIOD: (PRIMARY) 1950-1968  
(OVER-ALL) 1878-1968

TABLE 3

AREA 001 ARGENTIA  
45-47N 53-56W

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.2	1.1	2.1	1.6	.2	.0	98	5.1	16.9	4.5	4.6	7.0	6.8	4.1	8.2	3.9	5.4
NNE	.1	.5	1.6	1.4	.4	.0	76	4.0	19.9	3.2	10.0	2.8	5.4	3.8	7.1	1.8	7.1
NE	.1	1.1	1.8	1.2	.3	.0	86	4.5	17.9	4.1	4.6	4.5	4.1	4.3	3.5	4.5	7.1
ENE	.1	.7	1.2	.7	.1	.0	52	2.7	16.6	3.2	2.3	2.0	6.8	2.3	.0	2.7	4.5
E	.2	1.0	1.4	1.0	.4	.1	78	4.1	19.2	3.4	4.6	2.3	5.4	4.1	2.4	5.2	8.9
ESE	.1	.6	1.6	.8	.1	.1	61	3.2	17.9	3.8	3.1	2.3	4.1	2.8	2.4	3.6	3.6
SE	.1	1.0	2.0	1.1	.5	.1	91	4.7	18.7	6.3	7.7	3.9	2.7	4.1	3.5	3.9	4.5
SSE	.0	.4	1.0	1.1	.4	.1	57	3.0	23.4	3.6	3.1	2.8	2.7	4.1	1.2	2.1	.9
S	.2	1.1	1.9	1.8	.5	.1	107	5.6	20.1	6.1	5.4	5.1	8.1	4.1	5.9	6.1	7.1
SSW	.0	.7	2.3	1.2	.3	.0	87	4.5	18.8	4.5	2.3	2.8	10.8	5.3	3.5	4.8	5.4
SW	.2	1.2	3.3	1.8	.3	.2	133	6.9	19.0	8.4	4.6	7.3	8.1	5.3	9.4	6.4	7.1
WSW	.1	.8	3.8	3.1	.9	.2	169	8.8	22.3	8.8	6.2	9.6	8.1	8.4	11.8	8.5	9.8
W	.2	2.4	5.2	6.6	3.0	.3	339	17.6	23.7	14.7	21.5	16.3	10.8	19.6	17.6	22.7	11.6
WNW	.1	1.6	3.6	3.3	1.8	.1	202	10.5	22.4	10.6	7.7	9.6	8.1	12.0	11.8	10.6	11.6
NW	.1	2.0	4.1	2.6	.6	.1	183	9.5	19.0	9.5	7.7	9.6	6.8	10.2	8.2	7.6	1.8
NNW	.1	1.1	2.3	.9	.4	.0	92	4.8	18.3	5.2	4.6	4.5	1.4	5.6	3.5	5.2	3.6
VAR	.0	.1	.0	.0	.0	.0	1	.1	5.0	.0	.0	.3	.0	.0	.0	.0	.0
CALM	.5						10	.5	.0	.2	.0	2.3	.0	.0	.0	.3	.0
TOT	40	333	753	580	192	24	1922	100.0	20.3	443	130	355	74	393	85	330	112
PCT	2.1	17.3	39.2	30.2	10.0	1.2	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	1.0	3.2	3.4	1.4	.0	174	9.1	18.2	7.7	14.6	9.9	12.2	7.9	15.3	5.8	12.5
NE	.6	2.9	2.7	.8	.1	138	7.2	17.4	7.2	6.9	6.5	10.8	6.6	3.5	7.3	11.6
E	.6	2.6	3.0	.7	.3	139	7.2	18.6	7.2	7.7	4.5	9.5	6.9	4.7	8.8	12.5
ESE	.5	2.8	2.5	1.7	.3	148	7.7	20.5	9.9	10.8	6.8	5.4	8.1	4.7	6.1	5.4
S	.7	3.8	3.5	1.7	.4	194	10.1	19.5	10.6	7.7	7.9	18.9	9.4	9.4	10.9	12.5
SW	.7	5.1	6.4	2.8	.7	302	15.7	20.9	17.2	10.8	16.9	16.2	13.7	21.2	14.8	17.0
W	1.2	7.2	9.9	8.7	1.2	541	28.1	23.2	25.3	29.2	25.9	18.9	31.6	29.4	33.3	23.2
NW	1.2	4.9	5.8	2.1	.4	275	14.3	18.8	14.7	12.3	19.2	8.1	15.8	11.8	12.7	5.4
VAR	.1	.0	.0	.0	.0	1	.1	5.0	.0	.0	.3	.0	.0	.0	.0	.0
CALM	.5					10	.5	.0	.2	.0	2.3	.0	.0	.0	.3	.0
TOT	136	624	716	382	64	1922	100.0	20.3	443	130	355	74	393	85	330	112
PCT	7.1	32.5	37.3	19.9	3.3	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1950-1968  
(OVER-ALL) 1878-1968

TABLE 4

AREA 001 ARGENTIA  
45-47N 53-56W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	.8	6.2	11.7	8.3	2.4	.4	.0	.1	19.2	29.8	573
06&09	.3	3.5	8.6	7.3	1.9	.2	.1	.4	20.0	22.3	429
12&15	.3	4.1	10.0	7.9	2.2	.3	.0	.0	20.4	24.9	478
18&21	.2	3.4	8.8	6.7	3.4	.4	.0	.1	21.9	23.0	442
TOT	30	332	753	580	192	24	1	10	20.3		1922
PCT	1.6	17.3	39.2	30.2	10.0	1.2	.1	.5		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION					MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	
N	.5	.3	1.4	3.2	81	6.6
NNE	.5	.3	.8	2.7	62	6.6
NE	.6	.2	1.0	2.8	68	6.5
ENE	.4	.4	.3	1.4	38	5.9
E	.7	.0	.5	3.2	65	6.8
ESE	.3	.2	.8	2.3	52	6.9
SE	.1	.1	.8	4.0	71	7.5
SSE	.0	.0	.3	2.3	38	7.8
S	.1	.1	1.1	3.7	74	7.3
SSW	.1	.0	.8	3.4	64	7.5
SW	.6	.3	1.7	3.8	95	6.7
WSW	.6	1.0	1.6	5.7	129	6.8
W	1.2	.8	6.3	9.8	265	6.7
WNW	.7	.9	4.1	5.3	160	6.6
NW	1.0	.9	2.9	4.0	129	6.2
MNW	.5	.3	1.6	2.3	68	6.3
VAR	.0	.0	.0	.0	0	.0
CALM	.0	.0	.3	.2	7	6.9
TOT	117	87	384	878	1466	6.7
PCT	8.0	5.9	26.2	59.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION												NH <5/8 ANY HGT	TOTAL OBS
000	150	300	600	1000	2000	3500	5000	6500	8000+				
149	299	599	999	1999	3499	4999	6499	7999					
.2	.0	.0	.4	1.9	1.2	.3	.1	.1	.1	.1	1.3	81	
.3	.0	.1	.6	1.3	.5	.3	.0	.0	.1	.1	1.0	62	
.3	.0	.2	.5	1.4	.8	.1	.1	.0	.1	.1	1.1	68	
.3	.0	.2	.1	.5	.5	.1	.0	.0	.0	.0	.9	38	
.5	.1	.3	.3	1.4	.3	.3	.0	.1	.1	.1	1.0	65	
.5	.0	.3	.4	.5	.8	.2	.0	.0	.1	.1	.7	52	
.8	.0	.5	.4	1.2	.9	.2	.1	.1	.0	.5	.7	71	
.1	.1	.1	.6	.8	.4	.1	.1	.0	.0	.3	.3	38	
.5	.0	.1	.3	2.1	1.1	.2	.1	.1	.1	.1	.4	74	
.8	.0	.1	.1	1.4	1.0	.1	.1	.1	.0	.6	.6	64	
.4	.0	.2	.5	1.8	1.5	.3	.1	.0	.1	1.6	.9	95	
.6	.0	.2	.8	2.7	2.2	.2	.0	.1	.0	2.0	1.6	129	
.2	.2	.3	1.9	5.3	4.6	1.5	.3	.1	.1	3.7	2.5	265	
.0	.1	.4	.9	3.7	2.9	.3	.3	.0	.1	2.2	1.6	160	
.2	.0	.1	.9	2.4	2.0	.4	.1	.1	.0	2.5	1.2	129	
.1	.0	.1	.7	1.2	1.2	.1	.1	.1	.0	1.1	.6	68	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
.0	.0	.0	.1	.0	.1	.2	.1	.0	.0	.1	.1	7	
.8	7	50	141	432	323	73	21	12	12	307	1466		
6.0	.5	3.4	9.6	29.5	22.0	5.0	1.4	.8	.8	20.9	100.0		

JANUARY

PERIOD: (PRIMARY) 1950-1968  
(OVER-ALL) 1878-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >5500	.9	1.6	1.6	1.6	1.6	1.6	1.6
= OR >5000	1.6	2.9	3.0	3.0	3.1	3.1	3.1
= OR >3500	4.0	7.6	7.9	7.9	8.1	8.1	8.1
= OR >2000	13.7	28.0	29.4	29.6	29.9	30.2	30.2
= OR >1000	25.5	52.3	57.1	58.3	58.9	59.6	59.7
= OR >600	29.4	58.9	65.4	67.3	68.4	69.3	69.3
= OR >300	30.1	60.9	67.8	70.0	71.3	72.7	72.8
= OR >150	30.1	61.1	68.0	70.2	71.7	73.2	73.2
= OR > 0	30.2	61.5	69.0	71.7	74.3	78.8	79.0
TOTAL	441	898	1008	1048	1086	1151	1154

TOTAL NUMBER OF OBS: 1461

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.4	3.6	5.5	4.3	3.5	5.3	11.5	10.3	45.0	6.4	1647

JANUARY

PERIOD: (PRIMARY) 1950-1968  
(OVER-ALL) 1878-1968

TABLE 9

AREA 001 ARGENTIA  
45-47N 53-56W

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	6	.4
	11-21	.0	.1	.2	.1	.1	.1	.8	.1	.0	.3	.3	.1	.1	.0	.1	.0	.0	.0	34	2.3
	22&>	.1	.1	.0	.1	.2	.1	.3	.1	.2	.3	.1	.2	.0	.1	.1	.1	.0	.0	28	1.9
	TOTAL	1	2	5	2	5	4	17	2	4	8	5	5	2	2	3	1	0	0	68	4.7
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	2	.1
	4-10	.0	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.1	.1	.0	.0	7	.5
	11-21	.0	.1	.0	.0	.0	.1	.0	.1	.1	.0	.1	.2	.1	.1	.1	.1	.0	.0	13	.9
	22&>	.1	.2	.1	.0	.2	.0	.1	.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	17	1.2
	TOTAL	2	6	3	0	3	1	4	0	2	1	1	5	5	2	2	2	0	0	39	2.7
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	5	.3
	11-21	.0	.1	.0	.1	.1	.1	.1	.1	.2	.1	.0	.0	.1	.0	.1	.1	.0	.0	20	1.4
	22&>	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.1	.1	.0	.0	.0	.0	15	1.0
	TOTAL	0	3	3	3	3	2	3	4	5	4	0	1	4	3	1	1	0	0	40	2.7
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.2	.1	.0	.0	.2	.0	.0	.1	.0	.1	.1	.1	.1	.1	.0	.1	.0	.0	17	1.2
	11-21	.1	.2	.1	.2	.0	.3	.1	.1	.3	.1	.3	.3	.5	.1	.0	.0	.0	.0	40	2.7
	22&>	.2	.0	.1	.1	.3	.1	.4	.3	.5	.2	.1	.4	.3	.5	.3	.1	.0	.0	58	4.0
	TOTAL	7	4	3	4	7	6	7	7	11	6	8	13	15	11	4	2	0	0	115	7.9
5<10	0-3	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.1	.0	.3	13	.9
	4-10	.2	.0	.2	.3	.4	.1	.1	.0	.1	.2	.0	.1	.4	.3	.2	.1	.0	.0	41	2.8
	11-21	.7	.5	.9	.4	1.0	1.0	.8	.5	.6	1.0	1.5	1.6	1.6	1.7	1.0	1.0	.0	.0	233	15.9
	22&>	.5	1.4	.8	.3	.6	.4	.5	.6	1.0	.4	1.4	1.2	4.8	2.0	1.1	.4	.0	.0	254	17.4
	TOTAL	22	29	27	15	33	22	21	16	26	23	42	43	100	60	34	24	0	4	541	37.0
10<>	0-3	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	.0	.1	.1	.1	.1	.0	.0	.2	10	.7
	4-10	.5	.2	.1	.3	.2	.5	.4	.1	.6	.1	.3	.3	.8	.3	.5	.4	.0	.0	82	5.6
	11-21	1.7	.6	1.0	.4	.6	.5	.7	.2	.8	.9	1.5	1.7	3.6	2.5	3.6	1.5	.0	.0	322	22.0
	22&>	1.2	.4	.6	.1	.1	.1	.2	.3	.3	.4	.8	2.3	5.1	2.7	1.4	.7	.0	.0	244	16.7
	TOTAL	49	18	26	14	14	17	19	9	25	21	38	62	140	82	83	38	0	3	658	45.0
TOTAL		81	62	67	38	65	52	71	38	73	63	94	129	266	160	127	68	0	7	1461	100.0
PCT		5.5	4.2	4.6	2.6	4.4	3.6	4.9	2.6	5.0	4.3	6.4	8.8	18.2	11.0	8.7	4.7	.0	.5	100.0	

JANUARY

PERIOD: (PRIMARY) 1950-1968  
(OVER-ALL) 1878-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	149	299	599	999	1999	3499	4999	6499	7999				
0003	2.2	.2	1.1	2.1	7.8	6.5	1.1	.4	.2	.2	332	5.9	421
0609	1.4	.1	.5	2.1	6.1	5.3	.9	.3	.2	.2	259	6.1	352
1215	.7	.1	.7	2.6	6.8	5.0	1.3	.5	.2	.3	276	5.2	355
1821	1.4	.1	.9	2.5	7.9	4.7	1.4	.3	.2	.2	299	6.1	391
TOT	88	7	50	141	435	326	73	21	12	13	1166	353	1519
PCT	5.8	.5	3.3	9.3	28.6	21.5	4.8	1.4	.8	.9	76.8	23.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0003	1.8	.9	.6	2.2	10.9	11.5	409
0609	.9	.7	.6	1.4	8.6	10.4	333
1215	.5	.5	.7	1.5	8.4	11.8	345
1821	1.4	.5	.8	2.9	8.9	11.4	382
TOT	68	39	40	117	541	664	1469
PCT	4.6	2.7	2.7	8.0	36.8	45.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ <8R5+	NH <5/8 ANY HGT	TOTAL OBS
0003	.0	2.1	3.4	19.1	5.4	409
0609	.1	.9	2.1	15.3	5.2	333
1215	.0	.7	1.6	17.1	4.8	345
1821	.0	1.4	2.9	17.4	5.7	382
TOT	2	76	74	1012	309	1469
PCT	.1	5.2	5.0	68.9	21.0	100.0

JANUARY

PERIOD: (PRIMARY) 1950-1968  
(OVER-ALL) 1878-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
50/54	.0	.0	.0	.0	.0	.0	.2	.0	3	.2
45/49	.1	.0	.0	.1	.1	.3	.3	1.2	26	2.0
40/44	.2	.1	.0	.2	.7	.8	1.6	5.6	119	9.2
35/39	.1	.0	.2	.0	2.7	3.8	7.8	16.5	402	31.0
30/34	.1	.1	.2	.5	2.2	5.7	10.1	12.7	409	31.6
25/29	.0	.2	.1	.2	2.0	3.2	3.2	6.3	196	15.1
20/24	.0	.0	.1	.3	.7	1.5	2.2	2.8	97	7.5
15/19	.0	.0	.0	.1	.6	.2	1.2	.8	37	2.9
10/14	.0	.0	.0	.0	.2	.0	.2	.1	6	.5
5/9	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	5	4	6	18	119	200	349	595	1296	100.0
PCT	.4	.3	.5	1.4	9.2	15.4	26.9	45.9		

TABLE 14

N	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	NE	E	SE	S	SW	W	NW					
.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
.1	.0	.1	.5	.4	.4	.2	.4	.0	.4	.0	.1	.0
.3	.5	.9	1.2	2.9	2.2	.8	.3	.0	.0	.0	.0	.0
4.1	3.2	2.1	3.7	2.7	6.4	6.1	2.5	.0	.2	.0	.2	.0
2.2	2.3	3.0	2.2	2.5	5.3	9.0	4.7	.0	.2	.0	.2	.0
1.3	1.1	1.1	.3	.9	1.3	6.2	2.9	.1	.0	.0	.0	.0
.8	.4	.3	.1	.3	.4	3.7	1.5	.0	.0	.0	.0	.0
.3	.2	.1	.0	.0	.1	1.4	.8	.0	.0	.0	.0	.0
.1	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
120	101	98	104	128	208	357	173	1	6			
9.3	7.8	7.6	8.0	9.9	16.0	27.5	13.3	.1	.5			

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	57	47	41	32	20	15	8	32.1	564
06&09	50	49	43	34	22	15	14	32.7	428
12&15	49	46	41	33	21	14	11	31.9	476
18&21	50	46	42	33	20	15	5	32.8	434
TOT	57	47	41	32	19	14	5	32.3	1902

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.8	2.7	5.4	6.9	13.6	86	383		
06&09	.3	.7	2.1	3.3	7.4	10.8	85	320		
12&15	.1	.1	1.9	4.2	5.7	11.6	87	308		
18&21	.0	.6	2.5	2.6	7.0	9.9	85	294		
TOT	5	28	119	202	351	600	86	1305		



JANUARY

PERIOD: (PRIMARY) 1950-1968  
(OVER-ALL) 1878-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.1	.1	.1	.1	.1	.2	.1	.1	.2	.5	.1	.1	.1	.1	.2	.1	.0	.0	31	2.2
	NO PCP	.0	.0	.3	.1	.2	.1	1.1	.1	.1	.1	.3	.3	.1	.0	.0	.0	.0	.0	37	2.6
	TOTAL	1	2	5	2	5	4	17	2	4	8	5	5	2	2	3	1	0	0	68	4.8
1/2<1	PCP	.1	.4	.1	.0	.2	.0	.3	.0	.1	.0	.0	.2	.3	.1	.1	.1	.0	.0	29	2.0
	NO PCP	.0	.1	.1	.0	.0	.1	.0	.0	.0	.1	.1	.1	.1	.0	.1	.0	.0	.0	9	.6
	TOTAL	2	6	3	0	3	1	4	0	1	1	1	5	5	2	2	2	0	0	38	2.7
1<2	PCP	.0	.1	.1	.2	.2	.1	.1	.2	.4	.3	.0	.1	.1	.1	.1	.1	.0	.0	32	2.2
	NO PCP	.0	.1	.1	.0	.0	.1	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	7	.5
	TOTAL	0	3	3	3	3	2	3	4	5	4	0	1	4	2	1	1	0	0	39	2.7
2<5	PCP	.4	.2	.1	.1	.3	.4	.4	.3	.6	.4	.3	.6	.5	.6	.1	.1	.0	.0	77	5.4
	NO PCP	.1	.1	.1	.2	.2	.1	.1	.2	.1	.0	.3	.4	.6	.1	.1	.0	.0	.0	38	2.7
	TOTAL	7	4	3	4	7	6	7	7	11	6	8	13	15	11	4	2	0	0	115	8.1
5<10	PCP	.1	.3	.6	.1	.2	.4	.3	.5	.7	.3	.7	.4	2.2	1.2	.6	.4	.0	.0	126	8.8
	NO PCP	1.4	1.7	1.3	1.0	2.1	1.1	1.2	.6	1.0	1.3	2.2	2.7	4.7	2.9	1.8	1.2	.0	.3	406	28.5
	TOTAL	22	28	26	15	33	22	21	16	24	23	42	43	98	59	34	22	0	4	532	37.3
10<5	PCP	.1	.2	.1	.0	.0	.0	.1	.0	.3	.1	.2	.4	.8	.6	.3	.0	.0	.0	42	2.9
	NO PCP	3.4	1.1	1.7	.9	1.0	1.2	1.3	.6	1.4	1.3	2.3	3.9	8.8	4.8	5.2	2.6	.0	.2	592	41.5
	TOTAL	49	18	25	13	14	17	19	9	24	20	36	60	136	76	78	37	0	3	634	44.5
TOTAL	81	61	65	37	65	52	71	38	69	62	92	127	260	152	122	65	0	7	1426	100.0	
PCT	5.7	4.3	4.6	2.6	4.6	3.6	5.0	2.7	4.8	4.3	6.5	8.9	18.2	10.7	8.6	4.6	.0	.5	100.0		

PERIOD: (PRIMARY) 1950-1968  
(OVER-ALL) 1878-1968

JANUARY

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.1	10	.0	.7
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.4	.1	16	.1	1.0
7/8	.0	.0	.0	.0	.0	.0	.0	.2	.9	1.4	.3	.3	46	.2	3.0
6	.0	.0	.0	.0	.0	.0	.0	.2	1.0	.3	.1	.1	25	.3	1.4
5	.0	.0	.0	.0	.0	.0	.0	.7	2.1	.8	.0	.0	53	.4	3.3
4	.0	.0	.0	.0	.0	.0	.0	1.9	2.2	.4	.0	.0	66	.6	4.0
3	.0	.0	.0	.0	.0	.0	.1	2.6	2.4	.2	.2	.0	78	.6	4.8
2	.0	.0	.0	.0	.0	.0	1.0	4.4	1.7	.3	.0	.0	106	1.0	6.4
1	.0	.0	.0	.0	.0	.0	.6	4.8	1.6	.1	.1	.0	104	1.0	6.2
0	.0	.0	.0	.0	.0	.0	1.3	5.4	1.3	.2	.0	.0	119	.3	8.0
-1	.0	.0	.0	.0	.0	.1	2.2	4.1	.6	.0	.0	.0	102	.3	6.8
-2	.0	.0	.0	.0	.0	.1	2.5	3.2	.8	.1	.0	.0	97	.3	6.4
-3	.0	.0	.0	.0	.0	.5	3.2	1.7	.6	.0	.0	.0	87	.2	5.8
-4	.0	.0	.0	.0	.1	1.1	2.5	.6	.1	.1	.0	.0	65	.0	4.5
-5	.0	.0	.0	.0	.1	1.3	2.6	.7	.0	.0	.0	.0	67	.0	4.7
-6	.0	.0	.0	.0	.3	1.1	1.7	1.0	.0	.0	.0	.0	59	.1	4.0
-7/-8	.0	.0	.0	.0	1.4	4.1	1.7	.6	.1	.0	.0	.0	114	.1	7.8
-9/-10	.0	.0	.0	.2	2.2	2.1	1.1	.3	.1	.0	.0	.0	87	.0	6.0
-11/-13	.0	.0	.1	1.0	2.7	1.0	.8	.0	.0	.0	.0	.0	80	.0	5.6
-14/-16	.0	.0	.2	1.2	.7	.1	.4	.1	.0	.0	.0	.0	38	.0	2.6
-17/-19	.0	.0	.2	.3	.0	.1	.0	.0	.0	.0	.0	.0	8	.0	.6
-20/-22	.0	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	.5
-23/-25	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	4	.0	.3
-26/-30	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	0	4	10	43	108	169	310	469	226	72	20	9	1440	81	1359
PCT	.0	.3	.7	3.0	7.5	11.7	21.5	32.6	15.7	5.0	1.4	.6	100.0	5.6	94.4

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

JANUARY

AREA 001 ARGENTIA  
45-47N 53-36W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						TOTAL	NE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.0	.0	.5	.0	.0	.0	2	.0	.0	.0	.0	.0	.0	0
1-2	.0	.2	.2	.0	.0	.0	2	.0	.0	.0	.0	.0	.0	0
3-4	.0	.2	3.8	1.0	.0	.0	21	.0	.2	1.4	.0	.0	.0	7
5-6	.0	.0	1.4	.5	.0	.0	8	.0	.2	.5	.0	.2	.0	4
7	.0	.0	.5	1.4	.2	.0	9	.0	.0	.7	1.0	.0	.0	7
8-9	.0	.2	.2	.5	.0	.0	4	.0	.0	.2	.2	.2	.0	3
10-11	.0	.0	.2	1.2	.0	.0	6	.0	.0	.0	.2	.0	.0	1
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.7	.2	.0	5
13-16	.0	.0	.0	.2	.0	.0	1	.0	.0	.2	1.0	.0	.0	5
17-19	.0	.0	.0	.0	.2	.0	1	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.2	.0	1
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	.0	.3	2.9	2.0	.2	.0	5.4	.0	.2	1.4	1.3	.4	.0	3.3
PCT	.0	.7	6.9	4.8	.5	.0	12.9	.0	.5	3.3	3.1	1.0	.0	7.9

HGT	E						TOTAL	SE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.0	.0	.2	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0
1-2	.0	.2	.0	.0	.0	.0	1	.0	.7	.0	.0	.0	.0	3
3-4	.0	.5	1.0	.0	.0	.0	6	.0	.2	1.4	.2	.0	.0	8
5-6	.0	.0	1.4	.2	.0	.0	7	.0	.0	.7	.2	.0	.0	4
7	.0	.0	1.0	.7	.2	.0	8	.0	.0	.2	.5	.0	.0	3
8-9	.0	.0	.2	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.2	.0	1
12	.0	.0	.0	.2	1.0	.0	5	.0	.0	.0	.2	.2	.0	2
13-16	.0	.0	.0	.0	.2	.0	1	.0	.0	.0	.0	.0	.2	1
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	.0	.3	1.6	.5	.6	.0	3.0	.0	.4	1.0	.5	.2	.1	2.2
PCT	.0	.7	3.8	1.2	1.4	.0	7.2	.0	1.0	2.4	1.2	.5	.2	5.3

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

JANUARY  
TABLE 18

AREA 001 ARGENTIA  
45-47N 53-56W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						TOTAL	SW						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.2	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0
1-2	.0	.5	.2	.0	.0	.0	3	.0	1.2	.7	.2	.0	.0	9
3-4	.0	.2	1.0	.0	.0	.0	5	.0	.5	1.7	.0	.0	.0	9
5-6	.0	.2	1.0	.5	.0	.0	7	.0	.5	1.4	1.0	.0	.0	12
7	.0	.0	.7	.5	.0	.0	5	.0	.0	1.9	1.4	.0	.0	14
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	1.0	.2	.0	.0	5
10-11	.0	.2	.0	.5	.0	.0	3	.0	.0	.5	1.2	.0	.0	7
12	.0	.0	.0	.2	.5	.0	3	.0	.0	.0	1.2	.5	.0	7
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	1.2	.2	.2	7
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.2	.0	.0	1
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.2	.2	2
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.5	2
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	5	12	7	2	0	27	0	9	30	28	4	4	75
PCT	.2	1.2	2.9	1.7	.5	.0	6.5	.0	2.2	7.2	6.7	1.0	1.0	17.9

HGT	N						TOTAL	NW						TOTAL	GRAND TOTAL	
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+			
<1	.0	.2	.0	.0	.0	.0	1	.0	.2	.0	.0	.0	.0	.0	1	6
1-2	.0	1.4	.0	.0	.0	.0	6	.0	.7	.5	.0	.0	.0	.0	5	29
3-4	.2	.7	1.7	.7	.2	.0	15	.0	.7	1.4	.0	.0	.0	.0	9	80
5-6	.0	1.0	2.2	1.2	.0	.0	18	.0	.2	1.2	1.0	.0	.0	10	70	
7	.0	.0	1.2	2.2	.5	.0	16	.0	.0	1.2	1.0	.2	.0	10	72	
8-9	.0	.0	1.2	1.2	1.4	.0	16	.0	.0	1.2	1.4	.2	.0	12	41	
10-11	.0	.0	.2	.7	1.2	.0	9	.0	.0	.2	1.0	.0	.0	5	32	
12	.0	.0	.0	2.6	1.0	.0	15	.0	.0	.5	.5	.0	.0	4	41	
13-16	.0	.0	.2	1.2	1.2	.0	11	.0	.0	.0	.7	.2	.0	4	30	
17-19	.0	.0	.0	.5	.5	.2	5	.0	.0	.0	.0	.0	.0	0	7	
20-22	.0	.0	.0	.2	.2	.0	2	.0	.0	.0	.0	.0	.2	1	6	
23-25	.0	.0	.0	.0	.2	.0	1	.0	.0	.0	.0	.0	.0	0	1	
26-32	.0	.0	.0	.0	.0	.2	1	.0	.0	.0	.0	.0	.0	0	3	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
TOTAL	1	14	28	44	27	2	116	0	8	26	23	3	1	61	418	
PCT	.2	3.3	6.7	10.5	6.5	.5	27.8	.0	1.9	6.2	5.5	.7	.2	14.6	100.0	

JANUARY

PERIOD: (PRIMARY)  
:OVER-ALL) 1963-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)							
HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	.5	.7	.7	.0	.0	.0	8
1-2	.0	5.0	1.7	.2	.0	.0	29
3-4	.2	3.3	13.3	1.9	.2	.0	80
5-6	.0	2.1	9.8	4.5	.2	.0	70
7	.0	.0	7.4	8.6	1.2	.0	72
8-9	.0	.2	4.0	3.6	1.9	.0	41
10-11	.0	.2	1.2	4.8	1.4	.0	32
12	.0	.0	.7	5.7	3.3	.0	41
13-16	.0	.0	.5	4.3	1.9	.5	30
17-19	.0	.0	.0	.7	.7	.2	7
20-22	.0	.0	.0	.2	.7	.5	6
23-25	.0	.0	.0	.0	.2	.0	1
26-32	.0	.0	.0	.0	.0	.7	3
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	3	49	165	145	50	8	420
PCT	.7	11.7	39.3	34.5	11.9	1.9	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.2	4.3	9.4	5.3	4.6	.5	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	4
6-7	.0	.0	2.7	8.0	6.8	2.4	2.9	1.7	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	107	7
8-9	.0	.0	.5	1.7	5.1	5.8	3.6	6.3	4.8	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	121	9
10-11	.0	.0	.0	1.0	1.2	1.9	1.9	1.4	1.9	1.2	.7	.5	.5	.0	.0	.0	.0	.0	.0	51	12
12-13	.0	.0	.0	.0	.7	.0	.2	.5	.2	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	11	13
>13	.0	.0	.0	.0	.0	.5	.0	.2	.7	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	8	15
INDET	1.0	.0	.5	.0	.5	.2	.2	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	12	7
TOTAL	5	18	54	66	78	47	39	44	38	9	10	2	3	1	0	0	0	0	0	414	8
PCT	1.2	4.3	13.0	15.9	18.8	11.4	9.4	10.6	9.2	2.2	2.4	.5	.7	.2	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1877-1968

FEBRUARY

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT FREQ PCPN AT DB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG SNOW	TOTAL OTHER WEA		
N	.1	.0	.0	.1	.5	.0	.0	10	.0	.2	.0	.0	3	73	.7
NNE	.3	.0	.1	.0	.2	.1	.0	10	.0	.5	.0	.0	8	48	.7
NE	.3	.0	.3	.0	.4	.1	.0	16	.0	.2	.0	.0	3	55	1.1
ENE	.3	.0	.3	.1	.3	.0	.0	16	.0	.1	.0	.0	1	57	1.1
E	1.1	.2	.2	.0	.7	.0	.0	34	.0	.6	.0	.0	9	75	2.3
ESE	.6	.1	.1	.1	.3	.1	.0	18	.0	.2	.0	.0	3	46	1.2
SE	.6	.2	.0	.1	.5	.0	.0	21	.0	.4	.0	.0	6	68	1.4
SSE	.6	.1	.2	.0	.4	.0	.0	19	.0	.7	.0	.0	10	56	1.3
S	.6	.1	.1	.0	.4	.0	.0	18	.0	.3	.0	.0	7	62	1.2
SSW	.2	.0	.3	.0	.3	.0	.0	12	.0	.7	.0	.0	11	50	.8
SW	.1	.1	.1	.0	.7	.1	.0	15	.0	.5	.1	.0	9	77	1.0
WSW	.3	.1	.1	.0	1.1	.0	.1	26	.0	.2	.1	.0	4	107	1.7
W	.5	.2	.1	.0	4.2	.0	.1	75	.0	.3	.0	.0	4	280	5.0
WNW	.1	.1	.0	.0	3.1	.0	.0	50	.0	.3	.1	.0	6	189	3.3
NW	.1	.1	.0	.1	1.0	.0	.0	18	.1	.1	.2	.0	6	144	1.2
NNW	.1	.1	.0	.0	.7	.0	.0	13	.0	.1	.0	.0	1	111	.9
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	1	.0
CALM	.0	.0	.0	.0	.1	.0	.0	1	.0	.1	.0	.0	2	6	.1
TOT	88	20	26	5	225	5	3	372	1	82	10	0	93	1505	
PCT	5.8	1.3	1.7	.3	15.0	.3	.2	24.7	.1	5.4	.7	.0	6.2	100.0	24.7

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT FREQ PCPN AT DB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG SNOW	TOTAL OTHER WEA		
00003	2.6	.5	.7	.1	4.6	.1	.1	131	.0	1.5	.2	.0	25	459	8.7
06009	1.3	.4	.3	.0	4.0	.1	.0	93	.0	1.3	.1	.0	21	397	6.2
12015	.9	.2	.4	.2	2.5	.0	.0	64	.1	1.3	.3	.0	23	314	4.2
18021	1.0	.2	.3	.0	3.8	.1	.1	84	.0	1.4	.1	.0	22	341	5.6
TOT	88	20	26	5	225	5	3	372	1	82	10	0	93	1511	
PCT	5.8	1.3	1.7	.3	14.9	.3	.2	24.6	.1	5.4	.7	.0	6.2	100.0	24.6

FEBRUARY

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1877-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.1	1.2	2.4	.9	.1	.1	75	4.7	15.8	6.6	4.7	5.0	2.4	4.2	3.0	4.6	1.2
NNE	.0	.5	1.6	.8	.2	.1	50	3.1	19.8	3.3	3.1	3.1	7.2	4.2	1.5	1.1	2.4
NE	.0	.6	1.7	1.0	.3	.1	59	3.7	19.9	4.4	2.3	2.5	2.4	4.9	6.0	3.4	3.6
ENE	.0	.7	1.3	1.4	.2	.0	58	3.6	20.1	1.9	4.7	3.7	7.2	2.8	4.5	4.6	4.8
E	.0	.6	1.9	1.9	.4	.0	78	4.9	21.6	5.0	6.3	5.6	6.0	4.6	3.0	3.4	6.0
ESE	.0	.6	1.0	1.1	.2	.0	46	2.9	19.8	3.0	3.1	1.9	3.6	2.1	3.0	4.2	3.6
SE	.1	.8	1.7	1.1	.6	.1	69	4.3	20.9	3.9	7.0	3.1	6.0	3.9	7.5	4.6	3.6
SSE	.0	.8	1.3	1.5	.2	.1	61	3.8	20.4	4.4	2.3	4.3	1.2	3.5	6.0	4.9	.0
S	.1	1.1	1.8	.8	.2	.0	64	4.0	16.4	3.6	3.1	5.9	2.4	3.2	3.0	3.8	6.0
SSW	.0	.5	1.4	.9	.3	.1	51	3.2	20.4	3.0	5.5	4.0	2.4	2.5	1.5	2.3	4.8
SW	.1	.8	2.4	1.3	.6	.0	83	5.2	20.3	5.0	7.0	5.9	6.0	6.3	9.0	3.0	.0
WSW	.0	.9	3.0	2.3	.8	.2	115	7.2	21.8	7.2	3.9	8.4	7.2	7.4	9.0	6.8	7.1
W	.3	1.9	6.1	6.9	2.9	.9	302	18.9	24.0	22.0	15.6	14.6	13.3	18.3	11.9	22.8	28.6
WNW	.0	.8	4.5	4.9	2.0	.4	200	12.5	24.6	11.3	14.1	10.2	13.3	13.4	13.4	12.5	20.2
NW	.0	1.6	4.2	3.0	.7	.1	153	9.6	20.5	8.8	10.2	9.6	9.6	8.8	11.9	12.2	4.8
NNW	.1	.8	3.6	2.6	.6	.0	122	7.6	20.5	6.3	7.0	11.1	9.6	8.8	6.0	5.3	3.6
VAR	.1	.0	.0	.0	.0	.0	1	.1	2.0	.3	.0	.0	.0	.0	.0	.0	.0
CALM	.5						8	.5	.0	.0	.0	1.2	.0	1.1	.0	.4	.0
TOT	21	225	638	517	163	31	1595	100.0	21.2	363	128	323	83	284	67	263	84
PCT	1.3	14.1	40.0	32.4	10.2	1.9	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	.6	3.4	2.8	.8	.2	125	7.8	17.4	9.9	7.8	8.0	9.6	8.5	4.5	5.7	3.6
NE	.4	2.4	3.3	1.3	.1	117	7.3	20.0	6.3	7.0	6.2	9.6	7.7	10.4	8.0	8.3
E	.4	2.1	3.1	2.0	.1	124	7.8	20.9	8.0	9.4	7.4	9.6	6.7	6.0	7.6	9.5
SE	.5	2.7	2.7	2.1	.1	130	8.2	20.7	8.3	9.4	7.4	7.2	7.4	13.4	9.5	3.6
S	1.0	2.6	2.3	1.3	.1	115	7.2	18.2	6.6	8.6	9.9	4.8	5.6	4.5	6.1	10.7
SW	.6	4.3	4.0	2.9	.6	198	12.4	21.1	12.1	10.9	14.2	13.3	13.7	17.9	9.9	7.1
W	1.1	7.5	12.2	8.3	2.4	502	31.5	24.2	33.3	29.7	24.8	26.5	31.7	25.4	35.4	48.8
NW	.7	5.0	8.2	3.0	.4	275	17.2	20.5	15.2	17.2	20.7	19.3	17.6	17.9	17.5	8.3
VAR	.1	.0	.0	.0	.0	1	.1	2.0	.3	.0	.0	.0	.0	.0	.0	.0
CALM	.5					8	.5	.0	.0	.0	1.2	.0	1.1	.0	.4	.0
TOT	93	478	614	346	64	1595	100.0	21.2	363	128	323	83	284	67	263	84
PCT	5.8	30.0	38.5	21.7	4.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1877-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	.2	5.1	12.6	10.1	2.4	.4	.1	.0	20.2	30.8	491
06&09	.2	3.1	10.3	8.3	2.8	.4	.0	.3	21.6	25.5	406
12&15	.2	2.7	9.2	6.8	2.6	.4	.0	.2	21.3	22.0	351
18&21	.2	3.3	7.9	7.1	2.4	.8	.0	.1	22.2	21.8	347
TOT	12	225	638	517	163	31	1	8	21.2		1595
PCT	.8	14.1	40.0	32.4	10.2	1.9	.1	.5		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION					MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	
N	.9	.3	1.3	2.1	61	5.9
NNE	.2	.2	.5	2.3	42	7.3
NE	.2	.4	.7	2.4	49	6.7
ENE	.2	.5	.7	2.3	50	6.7
E	.2	.1	.5	4.1	65	7.5
ESE	.1	.2	.6	2.3	41	7.3
SE	.2	.3	.5	3.3	57	7.2
SSE	.3	.1	.3	2.7	45	7.2
S	.6	.2	.8	2.3	52	6.3
SSW	.4	.2	1.0	1.9	45	6.5
SW	.7	.2	1.3	2.8	66	6.4
WSW	.5	.6	2.2	4.1	99	6.5
W	2.3	2.0	6.4	8.6	256	6.1
WNW	1.7	1.6	5.1	4.7	175	5.9
NW	1.7	.8	3.1	3.9	127	5.8
NNW	1.1	.6	1.4	3.9	94	6.2
VAR	.0	.1	.0	.0	1	4.0
CALM	.1	.1	.1	.1	4	4.5
TOT	153	110	349	717	1329	6.4
PCT	11.5	8.3	26.3	54.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION											NH <5/8 ANY HGT	TOTAL OBS
000	150	300	600	1000	2000	3500	5000	6500	8000+			
149	299	599	999	1999	3499	4999	6499	7999	8000+			
.2	.0	.1	.4	1.4	.8	.2	.2	.0	.0	1.5	61	
.2	.0	.0	.7	.8	.8	.0	.0	.2	.0	.5	42	
.3	.0	.2	.5	1.2	.4	.1	.1	.2	.2	.8	49	
.0	.0	.1	.8	1.3	.2	.3	.0	.0	.2	1.1	50	
.9	.0	.5	1.1	.9	.6	.2	.0	.0	.1	.7	65	
.6	.1	.1	.2	1.0	.5	.2	.0	.1	.1	.4	41	
.4	.1	.2	.8	1.1	.4	.1	.2	.0	.2	1.0	57	
.5	.1	.2	.4	.5	.8	.2	.1	.0	.0	.8	45	
.5	.1	.0	.2	1.1	.6	.2	.0	.2	.0	1.2	52	
.5	.0	.0	.2	.8	.5	.0	.0	.2	.2	1.1	45	
.4	.1	.2	.4	1.3	1.2	.2	.0	.0	.0	1.2	66	
.4	.0	.1	1.2	2.3	1.2	.2	.1	.2	.0	1.8	99	
.5	.0	.1	2.5	5.5	4.2	.5	.2	.3	.1	5.4	256	
.2	.1	.0	.8	4.5	3.6	.2	.1	.0	.0	3.6	175	
.1	.1	.2	.7	2.0	2.7	.4	.0	.0	.4	3.0	127	
.2	.0	.4	.3	1.6	2.0	.2	.2	.0	.0	2.2	94	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	
.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.2	4	
.76	7	30	146	361	271	41	13	15	18	351	1329	
5.7	.5	2.3	11.0	27.2	20.4	3.1	1.0	1.1	1.4	26.4	100.0	



FEBRUARY

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1877-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	1.3	2.3	2.4	2.4	2.4	2.5	2.5
= OR >5000	2.0	3.3	3.4	3.4	3.4	3.5	3.5
= OR >3500	3.7	6.0	6.4	6.4	6.4	6.6	6.6
= OR >2000	12.3	25.2	26.3	26.5	26.8	27.1	27.1
= OR >1000	22.4	47.2	51.7	52.8	53.7	54.3	54.3
= OR >600	26.1	54.6	61.1	63.2	64.6	65.2	65.2
= OR >300	26.5	55.9	62.7	64.9	66.8	67.5	67.5
= OR >150	26.5	56.2	63.1	65.3	67.2	68.0	68.0
= OR > 0	26.7	56.5	64.0	66.6	69.5	73.4	73.5
TOTAL	353	747	847	881	919	971	972

TOTAL NUMBER OF OBS: 1323

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.9	4.0	6.2	5.1	4.1	6.3	10.2	10.0	41.6	5.6	1427

FEBRUARY

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1877-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.0	.0	.2	.0	.3	.2	.2	.2	.3	.0	.0	.0	.2	.0	.2	.2	.0	.1	25	1.9
	NO PCP	.1	.1	.2	.1	.2	.2	.0	.2	.2	.4	.2	.3	.0	.0	.0	.0	.0	.0	28	2.2
	TOTAL	1	1	5	1	7	5	3	5	6	5	3	4	2	0	2	2	0	1	53	4.1
1/2<1	PCP	.0	.1	.1	.2	.7	.2	.1	.1	.2	.0	.2	.1	.5	.2	.0	.0	.0	.0	30	2.3
	NO PCP	.0	.2	.0	.0	.2	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1	.0	.0	7	.5
	TOTAL	0	3	1	2	11	2	1	1	2	1	2	1	6	2	1	1	0	0	37	2.8
1<2	PCP	.1	.1	.0	.1	.1	.3	.3	.2	.1	.2	.1	.2	.4	.0	.0	.0	.0	.0	26	2.0
	NO PCP	.0	.2	.0	.2	.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.1	.0	.0	9	.7
	TOTAL	1	3	0	3	1	4	4	3	2	3	2	3	5	0	0	1	0	0	35	2.7
2<5	PCP	.2	.3	.2	.6	.2	.4	.4	.4	.2	.2	.2	.2	.8	.4	.2	.1	.0	.0	66	5.1
	NO PCP	.4	.1	.3	.0	.2	.2	.2	.1	.2	.2	.3	.0	.7	.2	.4	.0	.0	.0	44	3.4
	TOTAL	7	5	7	8	4	7	8	6	5	6	7	3	20	8	8	1	0	0	110	8.5
5<10	PCP	.1	.2	.3	.2	.7	.2	.4	.5	.2	.3	.5	.9	2.5	2.1	.5	.4	.0	.0	126	9.7
	NO PCP	1.2	.8	.9	.6	.9	.5	1.2	.8	1.5	1.2	1.5	2.5	5.5	3.7	2.6	2.2	.0	.0	360	27.7
	TOTAL	16	13	16	10	21	8	20	16	22	20	26	45	104	75	40	34	0	0	486	37.4
10<6>	PCP	.2	.1	.2	.0	.1	.2	.0	.2	.0	.0	.0	.3	.8	.4	.4	.1	.0	.0	37	2.8
	NO PCP	2.5	1.2	1.4	1.9	1.3	1.0	1.4	.6	1.1	.8	1.9	2.8	7.9	6.2	5.2	4.0	.1	.2	541	41.6
	TOTAL	36	17	20	25	18	15	18	10	14	10	25	41	113	86	73	53	1	3	578	44.5
TOTAL	61	42	49	49	62	41	54	41	51	45	65	97	250	171	124	92	1	4	1299	100.0	
PCT	4.7	3.2	3.8	3.8	4.8	3.2	4.2	3.2	3.9	3.5	5.0	7.5	19.2	13.2	9.5	7.1	.1	.3	100.0		

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PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1877-1968

TABLE 9

AREA 001 ARGENTIA  
45-47N 53-56W

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2	.2
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		1	.1
	11-21	.0	.1	.2	.1	.2	.2	.1	.1	.2	.2	.0	.2	.1	.0	.2	.1	.0		24	1.8
	22&>	.0	.0	.2	.0	.3	.2	.2	.3	.2	.2	.2	.2	.1	.0	.0	.1	.0		26	2.0
	TOTAL		1	1	5	1	7	5	3	5	6	5	3	4	2	0	2	2	0	1	53
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0		2	.2
	11-21	.0	.2	.1	.0	.1	.1	.1	.1	.1	.0	.2	.1	.2	.0	.1	.1	.0		15	1.1
	22&>	.0	.1	.0	.2	.9	.1	.0	.0	.1	.0	.0	.0	.3	.1	.0	.0	.0		22	1.7
	TOTAL		0	3	1	2	13	2	1	1	2	1	2	1	6	2	1	1	0	0	39
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0		2	.2
	11-21	.1	.2	.0	.1	.0	.0	.2	.1	.0	.2	.1	.1	.0	.0	.0	.0	.0		11	.8
	22&>	.0	.1	.0	.2	.1	.3	.2	.2	.2	.0	.1	.1	.4	.0	.0	.1	.0		22	1.7
	TOTAL		1	3	0	3	1	4	4	3	2	3	2	3	5	0	0	1	0	0	35
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.1
	4-10	.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0		6	.5
	11-21	.2	.1	.1	.2	.2	.1	.2	.4	.2	.2	.3	.1	.5	.3	.3	.0	.0		43	3.3
	22&>	.2	.3	.4	.4	.2	.5	.4	.1	.2	.3	.2	.2	.8	.4	.3	.1	.0		61	4.6
	TOTAL		7	5	7	8	4	7	8	6	5	6	7	3	20	9	8	1	0	0	111
5<10	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	4	.3
	4-10	.2	.2	.2	.1	.1	.1	.2	.2	.2	.2	.1	.0	.2	.2	.3	.2	.0		31	2.3
	11-21	.9	.2	.6	.2	.8	.3	.5	.2	1.2	.8	.5	1.1	2.0	2.0	1.6	1.4	.0		190	14.4
	22&>	.2	.6	.5	.5	.8	.2	.8	.8	.2	.6	1.3	2.3	5.6	3.6	1.1	.9	.0		263	19.9
	TOTAL		16	13	16	10	21	8	20	17	22	20	26	45	105	75	40	34	0	0	488
10&>	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	.2	6	.5
	4-10	.8	.2	.4	.3	.4	.4	.3	.3	.5	.2	.4	.4	1.0	.5	.6	.4	.0		91	6.9
	11-21	1.3	.9	.8	1.0	.8	.7	.7	.5	.4	.5	1.1	1.9	3.9	2.4	2.9	1.8	.0		282	21.3
	22&>	.7	.2	.4	.7	.3	.1	.5	.2	.2	.2	.5	.9	3.9	3.8	2.2	2.0	.0		218	16.5
	TOTAL		36	17	20	26	19	15	19	12	15	10	26	42	117	89	75	55	1	3	597
TOTAL PCT		61	42	49	50	65	41	55	44	52	45	66	98	255	175	126	94	1	4	1323	100.0
		4.6	3.2	3.7	3.8	4.9	3.1	4.2	3.3	3.9	3.4	5.0	7.4	19.3	13.2	9.5	7.1	.1	.3	100.0	

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1877-1968

FEBRUARY

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND  
OCCURRENCE OF NH <5/8 BY HOUR

HR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.7	.1	.3	2.8	7.0	6.2	1.2	.1	.4	.5	275	10.3	415
06009	1.4	.1	1.0	2.6	7.4	5.7	.7	.3	.1	.1	261	6.0	343
12015	1.3	.4	.5	2.3	6.3	4.1	.6	.2	.4	.2	222	4.7	286
18021	1.3	.0	.4	3.1	6.0	4.0	.8	.3	.1	.5	224	6.6	313
TOT PCT	76 5.6	7 .5	30 2.2	146 10.8	362 26.7	271 20.0	44 3.2	13 1.0	15 1.1	18 1.3	982 72.4	375 27.6	1357 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.1	1.0	1.2	2.3	11.7	13.2	406
06009	1.1	.9	.5	2.3	10.0	10.6	337
12015	1.1	.4	.5	1.3	7.1	10.7	280
18021	.8	.7	.5	2.4	7.9	10.8	306
TOT PCT	53 4.0	39 2.9	35 2.6	111 8.4	489 36.8	602 45.3	1329 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND  
CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HR (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ 0DR5+	NH <5/8 ANY HGT	TOTAL OBS
00003	.1	1.2	2.9	17.8	9.9	406
06009	.0	1.6	2.9	16.7	5.8	337
12015	.0	1.2	2.2	14.4	4.5	280
18021	.0	.8	2.0	14.7	6.3	306
TOT PCT	1 .1	64 4.8	69 5.2	844 63.5	353 26.6	1329 100.0

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PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1877-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
45/49	.0	.0	.0	.0	.4	.1	.1	.6	12	1.2
40/44	.0	.0	.0	.1	.3	.6	.4	2.5	39	3.8
35/39	.0	.0	.0	.1	1.4	2.5	4.4	12.8	217	21.3
30/34	.0	.0	.3	.2	2.5	6.0	11.6	17.1	383	37.5
25/29	.0	.1	.1	.2	2.2	3.1	4.6	8.8	195	19.1
20/24	.0	.0	.1	.2	.8	3.4	3.7	3.5	120	11.8
15/19	.0	.0	.0	.0	.8	1.0	1.2	1.3	43	4.2
10/14	.0	.0	.0	.0	.5	.1	.1	.2	9	.9
5/9	.0	.0	.0	.0	.0	.0	.1	.1	2	.2
TOTAL	0	1	5	8	89	172	267	478	1020	100.0
PCT	.0	.1	.5	.8	8.7	16.9	26.2	46.9		

TABLE 14

	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW				
45/49	.1	.0	.0	.5	.4	.0	.0	.2	.0	.0	.0	.0
40/44	.0	.5	.6	.7	1.1	.4	.3	.2	.0	.0	.0	.1
35/39	1.4	1.9	3.6	4.3	2.5	3.2	2.7	1.6	.0	.0	.0	.1
30/34	3.1	4.4	3.4	3.0	2.6	5.7	6.9	6.1	.0	.0	.0	.2
25/29	2.0	.9	.8	1.0	.7	2.1	3.5	3.1	.1	.0	.0	.0
20/24	1.2	.3	.3	.1	.0	.8	5.5	3.6	.0	.0	.0	.0
15/19	.6	.0	.0	.0	.0	.0	2.1	1.6	.0	.0	.0	.0
10/14	.0	.0	.0	.0	.0	.0	.4	.5	.0	.0	.0	.0
5/9	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
TOTAL	86	81	89	98	74	124	291	172	1	4		
PCT	8.4	7.9	8.7	9.6	7.3	12.2	28.5	16.9	.1	.4		

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	48	44	41	32	20	13	8	29.7	486
06&09	52	47	40	31	18	12	9	30.1	402
12&15	48	46	40	31	18	14	13	30.5	345
18&21	47	47	42	33	19	13	9	30.9	345
TOT	52	45	39	30	17	12	8	30.2	1578

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	2.5	5.6	8.3	14.5	86	318
06&09	.0	.3	2.5	3.6	6.7	12.4	87	262
12&15	.0	.4	1.2	4.2	5.4	10.4	87	221
18&21	.0	.5	2.5	3.4	5.7	9.7	85	223
TOT	0	14	90	172	267	481	86	1024

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PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1877-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	8	.3	.3
9/10	.0	.0	.0	.0	.0	.0	.0	.1	.2	.9	.1	16	.4	.9
7/8	.0	.0	.0	.0	.0	.0	.0	.5	1.6	.6	.1	35	.7	2.1
6	.0	.0	.0	.0	.0	.0	.0	.7	1.1	.2	.1	26	.6	1.4
5	.0	.0	.0	.0	.0	.0	.0	1.4	1.5	.2	.0	39	.2	2.9
4	.0	.0	.0	.0	.0	.0	.2	3.1	1.3	.1	.0	58	.7	3.9
3	.0	.0	.0	.0	.0	.0	.5	3.2	1.3	.0	.0	64	.5	4.5
2	.0	.0	.0	.0	.0	.0	1.8	4.6	.4	.0	.0	87	.6	6.3
1	.0	.0	.0	.0	.0	.1	2.2	3.9	.6	.0	.0	86	.5	6.3
0	.0	.0	.0	.0	.0	.2	3.5	3.1	.4	.0	.0	91	.3	6.9
-1	.0	.0	.0	.0	.0	.6	3.4	3.0	.1	.0	.0	89	.3	6.7
-2	.0	.0	.0	.0	.2	1.5	4.2	1.1	.4	.0	.0	93	.2	7.1
-3	.0	.0	.0	.0	.1	1.3	4.2	.2	.3	.2	.0	79	.2	6.0
-4	.0	.0	.0	.0	.2	3.0	2.3	.6	.0	.0	.0	77	.2	5.9
-5	.0	.0	.0	.0	.5	2.9	1.1	.4	.1	.0	.0	63	.0	5.0
-6	.0	.0	.0	.1	.8	2.0	.9	.1	.0	.0	.0	48	.0	3.8
-7/-8	.0	.0	.0	.6	2.4	3.9	1.4	.2	.2	.0	.0	109	.0	8.6
-9/-10	.0	.0	.1	.9	2.7	.9	.2	.0	.1	.0	.0	61	.0	4.8
-11/-13	.0	.0	.1	2.4	2.4	.4	.0	.0	.0	.0	.0	67	.0	5.3
-14/-16	.0	.0	.9	1.5	.6	.2	.0	.0	.0	.0	.0	40	.1	3.1
-17/-19	.0	.0	.6	.6	.2	.0	.1	.0	.0	.0	.0	19	.0	1.5
-20/-22	.1	.3	.3	.0	.0	.1	.0	.0	.0	.0	.0	10	.0	.8
-23/-25	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	1	6	27	77	124	215	327	332	121	30	8	1269	72	1197
PCT	.1	.5	2.1	6.1	9.8	16.9	25.8	26.2	9.5	2.4	.6	100.0	5.7	94.3

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

FEBRUARY

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						TOTAL	NE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
1-2	.0	.3	.0	.0	.0	.0	1	.0	.9	.3	.0	.0	.0	4
3-4	.0	.6	.9	.9	.0	.0	8	.0	.9	1.2	.6	.0	.0	9
5-6	.0	.0	2.6	.3	.0	.0	10	.0	.0	.6	.3	.0	.0	3
7	.0	.0	1.2	.6	.0	.0	6	.0	.0	.3	.3	.0	.0	2
8-9	.0	.0	.3	.3	.0	.0	2	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.3	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.3	.0	.0	1	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.3	.0	1	.0	.0	.0	.0	.3	.3	2
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.3	1	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	0	3	18	8	1	1	31	0	6	8	4	1	1	20
PCT	.0	.9	5.2	2.3	.3	.3	9.0	.0	1.7	2.3	1.2	.3	.3	5.8

HGT	E					TOTAL	SE					TOTAL	
	1-3	4-10	11-21	22-33	34-37		48+	1-3	4-10	11-21	22-33		34-37
<1	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
1-2	.0	.6	.3	.0	.0	3	.0	.6	.0	.3	.0	.0	3
3-4	.0	.9	1.4	.0	.0	8	.0	.6	1.2	.0	.0	.0	6
5-6	.0	.0	.3	.0	.0	1	.0	.3	.3	.6	.0	.0	4
7	.0	.0	1.2	.3	.3	6	.0	.6	.3	.9	.0	.0	6
8-9	.0	.0	.0	.6	.0	2	.0	.0	.0	.3	.3	.0	2
10-11	.0	.0	.0	.0	.0	0	.0	.0	.0	.6	.0	.0	2
12	.0	.0	.0	.3	.0	1	.0	.0	.3	.3	.3	.0	3
13-16	.0	.0	.0	.6	.0	2	.0	.0	.0	.0	.3	.0	1
17-19	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	0	5	11	6	1	23	0	7	7	10	3	0	27
PCT	.0	1.4	3.2	1.7	.3	6.6	.0	2.0	2.0	2.9	.9	.0	7.8

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

FEBRUARY

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
1-2	.0	.6	.3	.0	.0	.0	3	.0	.9	.6	.0	.0	.0	5		
3-4	.0	.0	1.7	.0	.0	.0	6	.0	1.4	2.0	.0	.0	.0	12		
5-6	.0	.0	1.7	.3	.0	.0	7	.0	.3	1.7	.3	.0	.0	8		
7	.0	.0	.6	.9	.3	.0	6	.0	.0	.6	.0	.3	.0	3		
8-9	.3	.0	.3	.0	.0	.0	2	.0	.0	.3	.6	.3	.0	4		
10-11	.0	.0	.3	.3	.0	.0	2	.0	.0	.6	.0	.0	.0	2		
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	.3	.0	2		
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.9	.9	.0	6		
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
20-22	.0	.0	.0	.3	.0	.0	1	.0	.0	.0	.0	.6	.0	2		
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.3	1		
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
TOTAL	1	2	17	6	1	0	27	0	9	20	7	8	1	45		
PCT	.3	.6	4.9	1.7	.3	.0	7.8	.0	2.6	5.8	2.0	2.3	.3	13.0		

HGT	W							NW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.0	.3	.3	.0	.0	.0	2	.0	.3	.0	.0	.0	.0	1	3	
1-2	.0	1.4	1.2	.0	.0	.0	9	.0	1.2	.9	.0	.0	.0	7	35	
3-4	.0	1.2	3.2	1.4	.0	.0	20	.0	.3	2.0	.3	.0	.0	9	78	
5-6	.0	.0	3.5	1.2	.0	.0	16	.0	.0	2.3	2.6	.0	.0	17	66	
7	.0	.0	2.0	2.3	.6	.6	19	.0	.0	1.4	1.2	.0	.0	9	57	
8-9	.0	.0	1.4	.3	1.2	.0	10	.0	.0	.9	1.2	.3	.0	8	30	
10-11	.0	.0	.6	1.4	.3	.0	8	.0	.0	.0	.6	.0	.0	2	17	
12	.0	.0	.0	.6	.6	.0	4	.0	.0	.0	.0	.3	.0	1	12	
13-16	.0	.0	.0	1.2	.9	.0	7	.0	.0	.0	.9	.6	.0	5	24	
17-19	.0	.0	.3	.3	.9	.3	6	.0	.0	.0	.0	.0	.0	0	6	
20-22	.0	.0	.0	.0	1.4	.0	5	.0	.0	.0	.0	.0	.0	0	9	
23-25	.0	.0	.0	.0	.3	.0	1	.0	.0	.0	.0	.0	.0	0	1	
26-32	.0	.0	.0	.3	.6	.9	6	.0	.0	.0	.0	.0	.0	0	7	
33-40	.0	.0	.0	.0	.0	.3	1	.0	.0	.0	.0	.0	.0	0	1	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
TOTAL	0	10	43	31	23	7	114	0	6	26	23	4	0	59	346	
PCT	.0	2.9	12.4	9.0	6.6	2.0	32.9	.0	1.7	7.5	6.6	1.2	.0	17.1	100.0	



FEBRUARY

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

TABLE 18 (CONT)

AREA 001 ARGENTIA  
45-47N 53-56W

WIND SPEED (KTS) VS SEA HEIGHT (FT)							
HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	.3	.6	.3	.0	.0	.0	4
1-2	.0	6.3	3.5	.3	.0	.0	35
3-4	.0	5.8	13.5	3.2	.0	.0	78
5-6	.0	.6	13.0	5.5	.0	.0	66
7	.0	.6	7.5	6.3	1.4	.6	57
8-9	.3	.0	3.2	3.2	2.0	.0	30
10-11	.0	.0	1.7	2.9	.3	.0	17
12	.0	.0	.3	1.7	1.4	.0	12
13-16	.0	.0	.0	3.5	3.2	.3	24
17-19	.0	.0	.3	.3	.9	.3	6
20-22	.0	.0	.0	.3	2.0	.3	9
23-25	.0	.0	.0	.0	.3	.0	1
26-32	.0	.0	.0	.3	.6	1.2	7
33-40	.0	.0	.0	.0	.0	.3	1
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	2	48	150	95	42	10	347
PCT	.6	13.8	43.2	27.4	12.1	2.9	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.3	5.4	9.0	4.5	1.5	1.5	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	4
6-7	.0	.3	3.0	7.2	9.6	4.5	2.4	2.4	1.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	7
8-9	.0	.0	.6	1.5	3.3	4.5	3.6	1.8	3.9	.3	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	9
10-11	.0	.0	.0	1.2	1.8	2.1	1.2	2.1	2.7	1.8	1.5	.6	1.2	.0	.0	.0	.0	.0	.0	.0	54	13
12-13	.0	.0	.0	.0	.0	.0	.6	.6	.6	.0	.3	.6	.6	.0	.0	.0	.0	.0	.0	.0	11	17
>13	.0	.0	.0	.3	.3	.3	.3	.0	.3	.0	.6	.0	.3	.3	.0	.0	.0	.0	.0	.0	9	16
INDET	.6	.0	.3	.0	1.5	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	5
TOTAL	3	19	43	49	60	43	29	23	31	7	13	4	7	1	0	0	0	0	0	0	332	8
PCT	.9	5.7	13.0	14.8	18.1	13.0	8.7	6.9	9.3	2.1	3.9	1.2	2.1	.3	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1877-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT FREQ PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
N	.2	.1	.2	.0	.6	.0	.0	14	.0	.4	.0	.1	6	84	1.1	
NNE	.0	.0	.2	.0	1.0	.0	.0	15	.0	.3	.1	.1	6	82	1.2	
NE	.2	.0	.2	.1	1.1	.0	.0	20	.0	.6	.1	.0	9	65	1.6	
E	.5	.0	.0	.0	.8	.0	.0	17	.0	.5	.2	.1	9	66	1.3	
ESE	.8	.2	.2	.1	1.0	.0	.0	29	.0	.7	.0	.0	9	81	2.2	
ESE	.3	.0	.2	.2	.4	.0	.1	14	.0	.3	.0	.0	4	45	1.1	
SE	.3	.1	.2	.0	.4	.0	.0	13	.0	.9	.1	.1	13	50	1.0	
SSE	.4	.1	.2	.0	.4	.1	.0	15	.0	.4	.0	.0	5	44	1.2	
S	.6	.0	.0	.0	.4	.1	.0	14	.0	1.9	.0	.0	24	74	1.1	
SSW	.3	.0	.1	.0	.1	.0	.0	6	.0	.7	.0	.0	9	34	.5	
SW	.5	.0	.1	.0	.8	.0	.0	18	.0	.9	.1	.1	13	64	1.4	
WSW	.0	.0	.1	.0	1.3	.1	.0	19	.0	.4	.1	.0	6	90	1.5	
W	.2	.0	.1	.0	1.9	.0	.2	31	.0	.5	.0	.0	6	195	2.4	
WNW	.1	.0	.1	.0	2.3	.0	.0	32	.0	.6	.0	.0	8	137	2.5	
NW	.0	.1	.0	.0	.9	.0	.0	12	.0	.4	.1	.0	6	108	.9	
NNW	.2	.1	.2	.0	.3	.0	.0	10	.0	.1	.1	.0	2	58	.8	
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	1	.0	
CALM	.0	.0	.0	.0	.1	.0	.0	1	.0	.4	.1	.0	6	11	.1	
TOT	61	7	25	4	177	3	3	280	0	126	10	5	141	1289		
PCT	4.7	.5	1.9	.3	13.7	.2	.2	21.7	.0	9.8	.8	.4	10.9	100.0	21.7	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT FREQ PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
00003	2.0	.2	.6	.2	4.2	.0	.0	94	.0	2.2	.2	.0	32	396	7.2	
06009	1.4	.1	.5	.1	4.2	.1	.1	82	.0	2.2	.1	.2	32	314	6.3	
12015	1.0	.1	.5	.0	3.0	.0	.1	61	.0	2.5	.3	.0	37	282	4.7	
18021	.4	.2	.3	.1	2.2	.2	.1	44	.0	2.9	.2	.2	41	306	3.4	
TOT	62	7	25	4	177	3	3	281	0	127	10	5	142	1298		
PCT	4.8	.5	1.9	.3	13.6	.2	.2	21.6	.0	9.8	.8	.4	10.9	100.0	21.6	

MARCH

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1877-1968

TABLE 3

AREA 001 ARGENTIA  
45-47N 53-56W

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.1	1.6	3.4	.9	.3	.1	89	6.4	16.8	7.3	9.6	6.0	3.8	7.1	6.0	5.3	4.3
NNE	.1	.9	3.1	1.9	.4	.2	90	6.5	20.3	7.6	5.6	7.6	12.8	6.2	7.2	3.1	4.3
NE	.0	.9	1.9	1.7	.4	.1	70	5.1	20.6	5.3	4.8	4.0	2.6	6.2	8.4	5.3	3.3
ENE	.0	.7	2.0	1.9	.6	.0	70	5.1	22.2	4.3	3.2	4.8	5.1	7.5	4.8	6.2	2.2
E	.0	.9	2.5	2.1	.4	.1	82	5.9	19.6	5.6	8.0	4.4	6.4	5.8	4.8	6.2	8.7
ESE	.1	.8	1.5	.7	.1	.0	46	3.3	16.7	2.0	5.6	4.0	5.1	1.8	4.8	3.1	4.3
SE	.0	.4	1.7	1.5	.2	.0	53	3.8	21.1	3.3	3.2	2.8	5.1	4.0	6.0	4.4	4.3
SSE	.0	.7	1.7	.6	.3	.0	44	3.2	18.3	2.3	3.2	2.4	3.8	4.0	4.8	3.6	3.3
S	.1	2.1	2.0	1.4	.1	.0	78	5.7	15.6	3.6	6.4	7.6	3.8	3.5	7.2	7.6	6.5
SSW	.0	.5	1.5	.2	.2	.0	34	2.5	17.3	2.6	1.6	2.4	.0	2.7	2.4	2.2	5.4
SW	.1	1.4	2.1	1.0	.4	.1	71	5.1	17.4	6.3	4.8	4.4	3.8	4.4	3.6	4.9	8.7
WSW	.1	1.1	2.8	1.7	.8	.2	93	6.7	20.9	7.0	6.4	7.2	9.0	5.8	7.2	5.8	7.6
W	.1	1.7	5.7	4.1	2.9	.3	204	14.8	23.0	15.9	15.2	13.7	16.7	12.4	14.5	18.2	9.8
WNW	.0	2.0	3.6	4.3	1.0	.1	151	10.9	21.5	12.9	10.4	10.0	7.7	9.3	8.4	10.2	18.5
NW	.1	1.7	4.0	2.2	.7	.0	121	8.8	18.6	6.6	9.6	11.2	11.5	11.5	6.0	5.8	8.7
NNW	.0	.9	3.3	.9	.0	.0	71	5.1	16.2	6.3	2.4	6.8	2.6	6.6	3.6	5.3	.0
VAR	.1	.0	.0	.0	.0	.0	1	.1	2.0	.0	.0	.0	.0	.0	.0	.4	.0
CALM	.9						12	.9	.0	1.0	.0	.4	.0	1.3	.0	2.2	.0
TOT	25	252	590	374	122	17	1380	100.0	19.5	302	125	249	78	226	83	225	92
PCT	1.8	18.3	42.8	27.1	8.8	1.2	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	.8	5.5	4.9	1.3	.4	179	13.0	18.6	14.9	15.2	13.7	16.7	13.3	13.3	8.4	8.7
NE	.5	3.0	4.1	2.2	.3	140	10.1	21.4	9.6	8.0	8.8	7.7	13.7	13.3	11.6	5.4
E	.7	3.8	3.2	1.3	.3	128	9.3	18.6	7.6	13.6	8.4	11.5	7.5	9.6	9.3	13.0
ESE	.4	2.2	3.1	1.0	.3	97	7.0	19.8	5.6	6.4	5.2	9.0	8.0	10.8	8.0	7.6
S	1.2	4.0	1.6	1.2	.1	112	8.1	16.1	6.3	8.0	10.0	3.8	6.2	9.6	9.8	12.0
SW	1.1	4.1	4.4	1.9	.4	164	11.9	19.4	13.2	11.2	11.6	12.8	10.2	10.8	10.7	16.3
W	1.1	7.8	9.1	6.5	1.2	355	25.7	22.4	28.8	25.6	23.7	24.4	21.7	22.9	28.4	28.3
NW	1.1	5.4	6.1	1.2	.1	192	13.9	17.7	12.9	12.0	18.1	14.1	18.1	9.6	11.1	8.7
VAR	.1	.0	.0	.0	.0	1	.1	2.0	.0	.0	.0	.0	.0	.0	.4	.0
CALM	.9					12	.9	.0	1.0	.0	.4	.0	1.3	.0	2.2	.0
TOT	106	494	504	231	45	1380	100.0	19.5	302	125	249	78	226	83	225	92
PCT	7.7	35.8	36.5	16.7	3.3	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1877-1968

TABLE 4

AREA 001 ARGENTIA  
45-47N 53-56W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	.1	5.7	14.5	8.0	2.2	.2	.0	.2	18.7	30.9	427
06&09	.2	4.6	9.1	7.0	2.4	.2	.0	.1	19.8	23.7	327
12&15	.3	4.2	9.0	5.8	2.6	.3	.0	.2	20.3	22.4	309
18&21	.3	3.7	10.1	6.2	1.7	.5	.1	.4	19.6	23.0	317
TOT	12	252	590	374	122	17	1	12	19.5		1380
PCT	.9	18.3	42.8	27.1	8.8	1.2	.1	.9		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION					MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBS	TOTAL OBS	
N	1.1	.7	1.5	3.6	80	6.0
NNE	.8	.4	1.4	4.1	78	6.6
NE	.6	.3	.9	3.0	55	6.6
ENE	.4	.0	.3	4.2	58	7.2
E	.2	.3	.9	4.6	69	7.4
ESE	.3	.2	.3	3.0	44	7.1
SE	.2	.1	.3	3.0	42	7.4
SSE	.4	.0	.3	2.5	38	6.8
S	1.0	.3	.5	3.4	60	6.2
SSW	.9	.2	.2	1.3	29	5.1
SW	.9	.2	1.1	2.9	59	6.3
WSW	1.4	.7	1.4	3.4	80	5.8
W	2.1	1.9	4.6	6.4	175	5.9
WNW	2.1	1.3	2.8	4.7	128	5.6
NW	3.1	1.0	2.9	2.0	105	4.4
NNW	1.2	.3	.9	2.3	56	5.6
VAR	.0	.0	.0	.1	1	8.0
CALM	.1	.1	.2	.3	7	5.4
TOT	193	91	240	638	1164	6.1
PCT	16.8	7.8	20.6	54.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION														NH <5/8 ANY HGT	TOTAL OBS
000	150	300	600	1000	2000	3500	5000	6500	8000+						
149	299	599	999	1999	3499	4999	6499	7999							
.3	.1	.3	.8	1.4	1.1	.3	.1	.0	.0	.1	2.6	80			
.3	.0	.3	.9	1.3	1.1	.6	.1	.0	.1	.1	2.0	78			
.7	.0	.1	.5	.5	1.0	.6	.0	.0	.1	.1	1.2	55			
.8	.1	.4	1.0	.9	.7	.1	.0	.0	.4	.6	.6	58			
.8	.2	.0	.3	1.8	1.1	.3	.0	.0	.3	1.0	.7	69			
.3	.0	.3	.2	.8	.9	.1	.3	.2	.1	.7	.4	44			
.6	.0	.3	.2	.9	.8	.1	.1	.0	.1	.5	.5	42			
.4	.0	.2	.3	.9	.3	.2	.1	.0	.1	.9	.9	38			
.6	.2	.2	.6	1.0	.3	.2	.1	.0	.2	1.9	.9	60			
.3	.0	.3	.3	.6	.1	.0	.0	.0	.0	1.0	.0	29			
.6	.0	.5	.3	1.1	.9	.1	.0	.1	.1	1.4	.4	59			
.3	.0	.3	.3	1.5	1.5	.0	.1	.1	.2	2.5	.8	80			
.3	.0	.1	1.6	3.5	3.4	.3	.3	.2	.2	5.3	1.7	175			
.5	.0	.2	.8	2.7	1.9	.4	.0	.0	.1	4.4	.4	128			
.4	.0	.2	.8	1.0	1.8	.1	.2	.0	.0	4.6	.6	105			
.1	.1	.1	.4	.9	1.3	.1	.0	.0	.0	1.9	.3	56			
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1			
.0	.0	.0	.1	.3	.0	.0	.0	.0	.0	.3	.3	7			
.83	.7	.43	1.10	2.47	2.11	.39	.15	.6	.23	3.80	1.164	1164			
7.1	.6	3.7	9.5	21.2	18.1	3.4	1.3	.5	2.0	32.6	100.0	100.0			

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1877-1968

MARCH

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	1.0	2.2	2.3	2.3	2.4	2.5	2.5
= OR >5000	1.5	3.4	3.6	3.6	3.7	3.8	3.8
= OR >3500	3.4	6.4	7.0	7.0	7.1	7.2	7.2
= OR >2000	11.1	23.1	24.7	24.9	25.1	25.3	25.3
= OR >1000	17.7	39.8	44.7	45.6	46.0	46.5	46.5
= OR >600	21.4	46.6	53.0	54.6	55.2	55.9	55.9
= OR >300	21.7	48.2	55.5	57.4	58.4	59.7	59.7
= OR >150	21.7	48.3	55.8	57.8	59.1	60.3	60.3
= OR > 0	21.9	48.8	56.5	59.1	61.6	66.9	67.2
TOTAL	254	566	655	685	714	776	780

TOTAL NUMBER OF OBS: 1160

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.0	4.6	8.1	4.2	3.7	5.4	7.9	6.7	40.0	8.3	1249

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1877-1968

MARCH

TABLE 8

AREA 001 ARGENTINA  
45-47N 53-56W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.1	.0	.3	.4	.3	.0	.0	.2	.1	.2	.1	.2	.2	.1	.0	.0	.0	.0	22	2.0
	NO PCP	.3	.4	.4	.3	.0	.2	.5	.3	.8	.2	.1	.2	.1	.1	.3	.0	.0	.0	47	4.2
	TOTAL	4	4	8	7	3	2	6	5	10	4	2	6	3	2	3	0	0	0	69	6.1
1/2<1	PCP	.1	.0	.0	.1	.3	.1	.1	.0	.1	.0	.4	.1	.0	.1	.0	.0	.0	.0	14	1.2
	NO PCP	.0	.1	.0	.3	.3	.1	.1	.0	.1	.0	.3	.1	.0	.1	.0	.1	.0	.0	16	1.4
	TOTAL	1	1	0	4	6	2	2	0	2	0	7	2	0	2	0	1	0	0	30	2.7
1<2	PCP	.2	.1	.2	.2	.3	.1	.1	.1	.1	.2	.0	.1	.1	.1	.2	.0	.0	.0	21	1.9
	NO PCP	.0	.3	.0	.0	.2	.0	.1	.0	.1	.0	.3	.0	.0	.0	.1	.0	.0	.0	11	1.0
	TOTAL	2	4	2	2	5	1	2	1	2	2	3	1	1	1	3	0	0	0	32	2.8
2<5	PCP	.4	.4	.3	.2	.6	.7	.5	.3	.4	.1	.3	.4	.7	.7	.1	.0	.0	.0	66	5.9
	NO PCP	.2	.0	.0	.3	.4	.2	.2	.2	.4	.1	.1	.4	.3	.1	.0	.0	.0	.0	29	2.6
	TOTAL	6	4	3	5	11	10	8	5	9	3	4	5	11	9	1	0	0	1	95	8.4
5<10	PCP	.2	.7	.4	.4	.7	.3	.1	.4	.4	.0	.5	.7	1.2	1.5	.6	.5	.0	.0	98	8.7
	NO PCP	2.2	1.8	1.3	1.3	1.6	1.2	.7	1.0	1.4	.7	.7	2.1	4.7	3.8	2.0	1.9	.1	.2	324	28.8
	TOTAL	27	28	20	19	26	17	9	16	21	8	14	32	66	60	29	27	1	2	422	37.5
10<∞	PCP	.0	.1	.1	.0	.0	.0	.0	.1	.0	.0	.2	.0	.3	.2	.0	.1	.0	.0	11	1.0
	NO PCP	3.4	2.8	1.7	1.8	1.5	1.1	1.2	.8	1.3	1.1	2.2	2.8	7.9	4.1	5.6	2.0	.0	.4	467	41.5
	TOTAL	38	32	20	20	17	12	13	10	15	12	27	31	92	48	63	24	0	4	478	42.5
TOTAL	78	73	53	57	68	44	40	37	59	29	57	77	173	122	99	52	1	7	1126	100.0	
PCT	6.9	6.5	4.7	5.1	6.0	3.9	3.6	3.7	5.2	2.6	5.1	6.8	15.4	10.8	8.8	4.6	.1	.6	100.0		

MARCH

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1877-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
	4-10	.1	.0	.3	.1	.0	.0	.0	.0	.3	.0	.0	.1	.1	.1	.2	.0	.0	.0	14	1.2
	11-21	.1	.0	.3	.3	.3	.1	.4	.2	.1	.3	.1	.3	.1	.1	.1	.0	.0	.0	29	2.5
	22&>	.1	.3	.2	.3	.0	.1	.1	.3	.4	.1	.1	.2	.1	.0	.0	.0	.0	.0	25	2.2
	TOTAL	4	4	8	7	3	2	6	5	10	4	2	6	3	2	3	0	0	0	69	5.9
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	4	.3
	11-21	.1	.1	.0	.1	.2	.2	.0	.0	.2	.0	.3	.1	.0	.0	.0	.1	.0	.0	14	1.2
	22&>	.0	.0	.0	.2	.3	.0	.2	.0	.0	.3	.0	.0	.0	.1	.0	.0	.0	.0	12	1.0
	TOTAL	1	1	0	4	6	2	2	0	2	0	7	2	0	2	0	1	0	0	30	2.6
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	3	.3
	11-21	.0	.3	.1	.0	.0	.1	.1	.1	.0	.1	.1	.0	.1	.0	.3	.0	.0	.0	13	1.1
	22&>	.2	.1	.1	.2	.3	.0	.1	.0	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	16	1.4
	TOTAL	2	4	2	2	5	1	2	1	2	2	3	1	1	1	3	0	0	0	32	2.8
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
	4-10	.3	.0	.0	.0	.1	.1	.0	.0	.3	.0	.1	.0	.1	.1	.0	.0	.0	.0	12	1.0
	11-21	.2	.3	.0	.3	.3	.3	.2	.3	.3	.3	.1	.3	.3	.3	.0	.0	.0	.0	39	3.4
	22&>	.1	.1	.3	.2	.5	.4	.5	.2	.1	.0	.2	.2	.5	.4	.1	.0	.0	.0	43	3.7
	TOTAL	6	4	3	5	11	10	8	5	9	3	4	5	11	9	1	0	0	1	95	8.2
5<10	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.2	6	.5
	4-10	.5	.3	.0	.1	.2	.2	.1	.1	.3	.2	.3	.3	.1	.5	.1	.3	.0	.0	40	3.4
	11-21	1.4	.9	.4	.6	1.0	.9	.3	.9	.9	.3	.5	.9	2.3	2.0	1.3	1.6	.0	.0	190	16.4
	22&>	.3	1.1	1.3	.9	1.0	.4	.5	.3	.4	.2	.4	1.6	3.4	2.7	1.1	.4	.0	.0	189	16.3
	TOTAL	27	28	20	19	26	17	11	16	21	8	14	32	67	60	29	27	1	2	425	36.6
10&>	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.3	9	.8
	4-10	.4	.3	.3	.2	.3	.3	.2	.4	.3	.3	.7	.3	.8	.4	.7	.3	.0	.0	73	6.3
	11-21	2.2	1.8	1.1	.9	.9	.5	.6	.4	.8	.7	1.2	1.7	3.9	1.8	3.1	1.9	.0	.0	273	23.5
	22&>	.8	.9	.4	.7	.4	.1	.3	.1	.3	.1	.5	.9	3.3	2.3	2.0	.2	.0	.0	154	13.3
	TOTAL	40	36	22	21	18	12	13	11	16	12	29	33	93	53	68	28	0	4	509	43.9
TOTAL		80	77	55	58	69	44	42	38	60	29	59	79	175	127	104	56	1	7	1160	100.0
PCT		6.9	6.6	4.7	5.0	5.9	3.8	3.6	3.3	5.2	2.5	5.1	6.8	15.1	10.9	9.0	4.8	.1	.6	100.0	

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1877-1968

MARCH

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND  
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00&03	2.1	.1	.8	2.5	6.3	5.5	1.0	.3	.0	.5	226	10.6	351
06&09	1.4	.3	1.1	2.0	4.6	4.4	.5	.6	.3	.6	186	8.2	283
12&15	1.9	.1	1.0	2.7	4.6	3.5	.9	.3	.3	.3	183	6.4	259
18&21	1.8	.2	.8	2.0	5.6	4.6	.8	.2	.0	.5	194	8.1	290
TOT	85	7	43	110	249	212	39	15	6	23	789	394	1183
PCT	7.2	.6	3.6	9.3	21.0	17.9	3.3	1.3	.5	1.9	66.7	33.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00&03	1.2	.7	.4	2.7	11.4	13.2	346
06&09	1.5	.8	.5	1.3	8.4	11.5	279
12&15	1.6	.7	1.1	1.9	7.4	9.2	256
18&21	1.8	.4	.7	2.2	9.2	10.2	287
TOT	71	30	32	95	425	515	1168
PCT	6.1	2.6	2.7	8.1	36.4	44.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND  
CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HR	<150 <50YD	<600 <1	1000 <5	1000+ &OR5+	NH <5/8 ANY HGT	TOTAL OBS
(GMT)						
00&03	.1	1.5	3.0	16.3	10.4	346
06&09	.0	1.8	2.6	13.2	8.1	279
12&15	.2	1.9	3.3	12.4	6.3	256
18&21	.1	1.7	3.1	13.4	8.0	287
TOT	.4	8.1	62	646	383	1168
PCT	.3	6.9	5.3	55.3	32.8	100.0



MARCH

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1877-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
45/49	.0	.0	.0	.1	.0	.1	.0	.1	3	.3
40/44	.0	.0	.0	.0	.1	.0	.3	1.3	16	1.8
35/39	.0	.1	.0	.2	1.2	1.8	5.9	13.2	204	22.4
30/34	.0	.0	.1	.1	1.4	9.1	15.7	22.9	449	49.3
25/29	.0	.0	.0	.8	1.8	4.3	5.1	7.1	173	19.0
20/24	.0	.0	.0	.1	.3	1.8	2.0	1.3	50	5.5
15/19	.0	.0	.1	.1	.2	.2	.4	.3	13	1.4
10/14	.0	.0	.0	.0	.0	.0	.1	.1	2	.2
TOTAL	0	1	2	13	46	157	269	422	910	100.0
PCT	.0	.1	.2	1.4	5.1	17.3	29.6	46.4		

TABLE 14

	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM	
	N	NE	E	SE	S	SW	W	NW					
45/49	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
40/44	.1	.2	.0	.4	.3	.5	.1	.0	.0	.0	.0	.0	.0
35/39	2.4	4.1	3.0	2.0	4.1	2.2	2.5	1.6	.1	.4	.4	.4	.4
30/34	5.9	6.3	5.6	4.2	3.3	5.9	11.8	5.9	.0	.4	.4	.4	.4
25/29	2.4	1.1	1.0	.7	.2	2.9	6.9	3.8	.0	.0	.0	.0	.0
20/24	.9	.2	.2	.2	.2	.1	2.4	1.2	.0	.0	.0	.0	.0
15/19	.3	.1	.1	.0	.0	.0	.3	.5	.0	.0	.0	.0	.0
10/14	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
TOTAL	112	110	90	69	74	106	219	121	1	8	1	8	8
PCT	12.3	12.1	9.9	7.6	8.1	11.6	24.1	13.3	.1	.9	.1	.9	.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	49	40	37	31	22	19	11	30.9	424
06&09	42	41	38	32	22	18	15	30.8	325
12&15	45	44	40	33	23	15	9	31.7	308
18&21	49	45	41	34	25	20	16	32.4	314
TOT	49	41	37	31	22	17	9	31.4	1371

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.1	1.7	5.3	9.4	13.3	86	283	86	283
06&09	.0	.1	1.1	5.1	7.0	11.4	87	227	87	227
12&15	.0	.2	.8	3.6	6.3	11.0	88	201	88	201
18&21	.0	.3	1.4	3.3	6.9	10.7	87	207	87	207
TOT	0	16	46	159	271	426	87	918	87	918

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1877-1968

MARCH

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.3	.4	.0	7	.1	.6
9/10	.0	.0	.0	.0	.0	.0	.1	.6	.2	.0	9	.2	.6
7/8	.0	.0	.0	.0	.0	.2	.6	1.4	.0	.0	24	1.0	1.2
6	.0	.0	.0	.0	.0	.4	1.1	.7	.0	.0	24	.4	1.8
5	.0	.0	.0	.0	.0	.2	1.7	1.1	.0	.0	33	.7	2.3
4	.0	.0	.0	.0	.0	.5	3.2	.7	.2	.0	50	.7	3.9
3	.0	.0	.0	.0	.0	1.3	5.7	1.3	.1	.0	91	1.8	6.6
2	.0	.0	.0	.0	.0	3.2	5.4	.9	.0	.0	104	1.2	8.4
1	.0	.0	.0	.0	.1	4.8	4.6	.4	.0	.0	107	1.5	8.4
0	.0	.0	.0	.0	.6	7.6	5.5	.4	.0	.0	153	1.5	12.6
-1	.0	.0	.0	.0	1.1	3.8	1.7	.3	.0	.0	75	.3	6.6
-2	.0	.0	.0	.1	1.0	6.0	1.3	.2	.0	.0	93	.4	8.2
-3	.0	.0	.0	.1	1.7	3.3	.7	.0	.0	.0	63	.1	5.7
-4	.0	.0	.0	.4	2.8	1.8	.5	.1	.0	.0	60	.1	5.4
-5	.0	.0	.0	.2	3.2	1.2	.3	.0	.0	.0	53	.0	4.9
-6	.0	.0	.0	.5	1.7	.3	.5	.0	.0	.0	31	.0	2.9
-7/-8	.0	.0	.0	2.3	1.5	.2	.4	.0	.0	.0	47	.0	4.3
-9/-10	.0	.0	.3	1.3	.3	.2	.0	.0	.0	.0	22	.0	2.0
-11/-13	.0	.0	1.1	.9	.2	.4	.0	.0	.0	.0	28	.0	2.6
-14/-16	.0	.4	.0	.0	.1	.0	.0	.0	.0	.0	5	.0	.5
-17/-19	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	2	.0	.2
-20/-22	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	4	15	63	153	383	363	90	9	0	1082	108	974
PCT	.2	.4	1.4	5.8	14.1	35.4	33.5	8.3	.8	.0	100.0	10.0	90.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

MARCH  
TABLE 18

AREA 001 ARGENTIA  
45-47N 53-56W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						TOTAL	NE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.0	.4	.0	.0	.0	.0	1	.0	.0	.4	.0	.0	.0	1
1-2	.0	.9	.0	.0	.0	.0	2	.0	.4	.4	.0	.0	.0	2
3-4	.0	.0	2.6	.0	.0	.0	6	.0	.0	1.3	.0	.0	.0	3
5-6	.0	.4	.9	.4	.0	.0	4	.0	.0	.9	1.3	.0	.0	5
7	.0	.0	.4	.9	.0	.0	3	.0	.0	1.7	1.3	.4	.0	8
8-9	.0	.0	.4	.9	.0	.0	3	.0	.4	.0	1.7	.4	.0	6
10-11	.0	.0	.0	.0	.4	.4	2	.0	.0	.0	.4	.0	.0	1
12	.0	.0	.0	.4	.0	.0	1	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	1.3	.0	3	.0	.0	.0	.4	.0	.0	1
17-19	.0	.0	.0	.0	.0	.9	2	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.4	1	.0	.0	.0	.0	.0	.4	1
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	.0	.4	1.7	.6	.4	.4	2.8	.0	.2	1.1	1.2	.2	.1	2.8
PCT	.0	1.7	4.3	2.6	1.7	1.7	12.2	.0	.9	4.8	5.2	.9	.4	12.2

HGT	E						TOTAL	SE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.0	.0	.4	.0	.0	.0	1	.0	.4	.0	.0	.0	.0	1
1-2	.0	.4	.9	.0	.0	.0	3	.0	1.7	.4	.0	.0	.0	5
3-4	.0	.0	1.3	.0	.0	.0	3	.0	.0	.4	.4	.0	.0	2
5-6	.0	.0	1.3	.4	.0	.0	4	.0	.0	.9	.0	.0	.0	2
7	.0	.0	.0	.9	.0	.0	2	.0	.0	.4	1.3	.4	.0	5
8-9	.0	.0	.4	.9	.0	.0	3	.0	.0	.4	.0	.0	.0	1
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.4	.4	.0	.0	2
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.9	.0	2	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	.0	.1	1.0	.5	.2	.0	1.8	.0	.5	.7	.5	.1	.0	1.8
PCT	.0	.4	4.3	2.2	.9	.0	7.8	.0	2.2	3.0	2.2	.4	.0	7.8

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

MARCH  
TABLE 18

AREA 001 ARGENTIA  
45-47N 53-56W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.4	.0	.0	.0	.0	.0	1	.0	1.3	.4	.0	.0	.0	.0	4	
1-2	.0	2.6	.4	.0	.0	.0	7	.0	2.2	.0	.0	.0	.0	.0	5	
3-4	.0	1.7	1.7	.0	.0	.0	8	.0	.4	1.3	.0	.0	.0	.0	4	
5-6	.0	.0	.9	.4	.0	.0	3	.0	.0	2.6	.4	.0	.0	.0	7	
7	.0	.0	1.7	.0	.0	.0	4	.0	.0	.0	.0	.0	.0	.0	0	
8-9	.0	.0	.4	.0	.4	.0	2	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.9	.9	.4	.0	.0	5	
12	.0	.0	.0	.4	.0	.0	1	.0	.0	.0	.4	.0	.0	.0	1	
13-16	.0	.0	.0	.0	.4	.0	1	.0	.0	.0	.0	.0	.0	.0	0	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.9	.0	.0	2	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.4	.9	.0	.0	3	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
TOTAL	1	10	12	2	2	0	27	0	9	12	5	5	0	31		
PCT	.4	4.3	5.2	.9	.9	.0	11.7	.0	3.9	5.2	2.2	2.2	.0	13.5		

HGT	W							NW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.0	.9	.0	.0	.0	.0	2	.0	.9	.0	.0	.0	.0	.0	2	13
1-2	.0	.0	1.3	.0	.0	.0	3	.0	1.3	.0	.0	.0	.0	.0	3	30
3-4	.0	1.7	3.5	.4	.0	.0	13	.0	1.3	1.7	.0	.0	.0	.0	7	46
5-6	.0	.9	.4	.4	.0	.0	4	.0	.0	1.3	.0	.0	.0	.0	3	32
7	.0	.0	.9	1.3	.4	.0	6	.0	.0	2.2	.0	.0	.0	.0	5	33
8-9	.0	.0	.4	2.2	.4	.0	7	.0	.0	.4	.4	.0	.0	.0	2	24
10-11	.0	.0	.4	.0	.4	.0	2	.0	.0	.0	.4	.0	.0	.0	1	13
12	.0	.0	.4	1.3	.9	.4	7	.0	.0	.0	.0	.4	.0	.0	1	11
13-16	.0	.0	.0	.4	1.3	.0	4	.0	.0	.0	.9	.0	.0	.0	2	13
17-19	.0	.0	.0	.0	1.3	.0	3	.0	.0	.0	.0	.4	.0	.0	1	8
20-22	.0	.0	.0	.0	.9	.0	2	.0	.0	.0	.0	.0	.0	.0	0	7
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	0	8	17	14	13	1	53	0	8	13	4	2	0	27	230	
PCT	.0	3.5	7.4	6.1	5.7	.4	23.0	.0	3.5	5.7	1.7	.9	.0	11.7	100.0	

MARCH

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

TABLE 18 (CONT)

AREA 001 ARGENTIA  
45-47N 53-56W

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	2.6	3.8	1.3	.0	.0	.0	18
1-2	.0	9.4	3.4	.0	.0	.0	30
3-4	.0	5.1	13.6	.9	.0	.0	46
5-6	.0	1.3	8.9	3.4	.0	.0	32
7	.0	.0	7.2	5.5	1.3	.0	33
8-9	.0	.4	2.6	6.0	1.3	.0	24
10-11	.0	.0	1.7	2.1	1.3	.4	13
12	.0	.0	.4	2.6	1.3	.4	11
13-16	.0	.0	.0	1.7	3.8	.0	13
17-19	.0	.0	.0	.0	2.6	.9	8
20-22	.0	.0	.0	.4	1.7	.9	7
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	6	47	92	53	31	6	235
PCT	2.6	20.0	39.1	22.6	13.2	2.6	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	6.9	11.2	4.3	4.3	1.7	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	72	3
6-7	.0	.4	2.6	7.3	9.4	3.9	2.6	1.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	6
8-9	.0	.0	1.3	1.7	6.0	5.2	1.7	1.3	3.4	1.3	2.1	.4	.4	.0	.0	.0	.0	.0	.0	58	10
10-11	.0	.0	.0	.0	2.1	.4	1.7	2.6	2.1	2.1	1.3	.0	.0	.0	.0	.0	.0	.0	.0	29	12
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	13
>13	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	2	18
INDET	1.3	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	1
TOTAL	7	17	35	31	52	26	15	14	17	8	8	2	1	0	0	0	0	0	0	233	7
PCT	3.0	7.3	15.0	13.3	22.3	11.2	6.4	6.0	7.3	3.4	3.4	.9	.4	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1879-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
N	.3	.0	.2	.0	.6	.0	.0	14	.0	.8	.2	.0	13	109	1.1	
NNE	.1	.2	.0	.0	.5	.0	.0	10	.0	.8	.0	.0	10	49	.8	
NE	.2	.0	.2	.0	.5	.0	.0	12	.0	.6	.0	.0	8	51	.9	
ENE	.5	.0	.1	.0	.4	.0	.0	12	.0	.2	.0	.0	3	33	.9	
E	1.0	.1	.4	.0	.2	.0	.0	22	.0	1.2	.2	.0	18	72	1.7	
ESE	.9	.1	.1	.0	.4	.0	.1	20	.0	1.0	.1	.0	14	45	1.5	
SE	1.1	.1	.1	.0	.1	.0	.0	18	.0	1.3	.2	.0	19	56	1.4	
SSE	.7	.0	.4	.0	.2	.0	.0	17	.0	.9	.0	.0	12	46	1.3	
S	1.4	.2	.1	.0	.1	.0	.0	23	.0	1.5	.0	.0	20	85	1.7	
SSW	.8	.0	.2	.0	.1	.0	.0	14	.0	1.4	.2	.0	22	86	1.1	
SW	.2	.0	.0	.0	.1	.1	.1	6	.0	2.0	.3	.0	30	113	.5	
WSW	.5	.0	.0	.1	.8	.0	.0	17	.0	1.0	.1	.0	14	123	1.3	
W	.4	.1	.0	.0	1.1	.0	.0	21	.0	1.4	.2	.0	22	222	1.6	
WNW	.0	.0	.0	.0	.2	.0	.0	3	.0	.0	.1	.0	1	87	.2	
NW	.0	.0	.0	.0	.4	.0	.0	5	.0	.4	.1	.0	6	62	.4	
NNW	.0	.0	.0	.0	.3	.0	.0	4	.0	.1	.0	.0	1	54	.3	
VAR	.0	.0	.1	.0	.0	.0	.0	1	.0	.4	.0	.0	5	11	.1	
CALM	.1	.0	.0	.0	.1	.0	.0	2	.0	.2	.0	.0	2	14	.2	
TOT	106	8	23	1	80	1	2	221	0	200	20	0	220	1318		
PCT	8.0	.6	1.7	.1	6.1	.1	.2	16.8	.0	15.2	1.5	.0	16.7	100.0	16.8	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
00003	2.3	.2	.4	.1	1.5	.0	.0	60	.0	3.9	.7	.0	60	371	4.5	
06009	2.3	.1	.4	.0	1.6	.0	.1	58	.0	3.2	.2	.0	45	299	4.4	
12015	1.9	.1	.8	.0	1.5	.1	.0	57	.0	3.4	.5	.0	51	326	4.3	
18021	1.6	.2	.2	.0	1.4	.0	.1	47	.0	4.7	.2	.0	65	328	3.5	
TOT	107	8	23	1	80	1	2	222	0	201	20	0	221	1324		
PCT	8.1	.6	1.7	.1	6.0	.1	.2	16.8	.0	15.2	1.5	.0	16.7	100.0	16.8	

APRIL

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1879-1968

TABLE 3

AREA 001 ARGENTIA  
45-47N 53-56W

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.4	1.5	3.7	1.9	.4	-.1	112	8.1	17.3	7.6	8.0	6.4	13.0	9.0	9.0	7.3	8.5
NNE	.1	1.2	1.9	.5	-.1	-.0	55	4.0	14.7	3.1	8.0	3.8	7.2	2.5	7.7	2.8	3.7
NE	.1	1.6	1.1	1.0	-.1	-.1	55	4.0	15.7	5.9	2.7	2.6	5.8	4.7	.0	3.6	3.7
ENE	.0	.6	1.2	.6	-.0	-.0	34	2.4	16.7	1.4	1.8	1.3	2.9	3.6	6.4	2.4	2.4
E	.2	1.6	2.3	1.0	-.4	-.0	76	5.5	16.4	5.2	6.2	5.1	5.8	8.3	6.4	3.2	2.4
ESE	.1	.7	1.7	.6	-.1	-.1	46	3.3	16.8	1.7	2.7	3.4	2.9	5.4	3.8	3.6	1.2
SE	.1	1.3	1.7	1.1	-.0	-.0	59	4.2	15.4	4.5	6.2	4.7	4.3	3.2	5.1	3.6	3.7
SSE	.0	1.0	1.7	.6	-.2	-.0	49	3.5	17.2	3.1	2.7	4.3	4.3	2.9	2.6	4.4	3.7
S	.2	1.9	2.7	1.4	-.3	-.1	92	6.6	17.3	5.2	3.5	6.0	8.7	8.7	9.0	5.2	11.0
SSW	.1	1.9	3.5	1.0	-.1	-.0	91	6.6	15.3	9.4	3.5	7.7	4.3	5.1	5.1	6.9	4.9
SW	.0	2.7	4.1	1.5	-.1	-.1	118	8.5	15.7	9.7	11.5	6.8	4.3	5.8	9.0	12.5	4.9
WSW	.1	2.2	4.5	1.9	-.6	-.1	130	9.4	17.4	8.7	8.0	8.5	11.6	10.1	3.8	9.7	15.9
W	.3	2.7	7.3	4.4	1.3	-.2	226	16.3	19.2	16.3	19.5	15.8	14.5	12.6	21.8	19.4	12.2
WNW	.1	1.5	3.6	1.2	-.4	-.1	96	6.9	18.1	7.6	7.1	7.7	.0	9.4	3.8	4.8	8.5
NW	.1	1.6	1.7	1.2	-.1	-.0	65	4.7	16.2	6.6	3.5	6.8	1.4	4.7	2.6	2.8	3.7
NNW	.1	1.2	2.1	.8	-.0	-.0	58	4.2	14.9	1.7	3.5	5.6	5.8	3.2	2.6	6.5	6.1
VAR	.6	.2	.0	.0	-.0	-.0	11	.8	2.8	1.0	.9	.9	1.4	.4	.0	.8	1.2
CALM	1.2						16	1.2	.0	1.0	.9	2.6	1.4	.4	1.3	.4	2.4
TOT	55	353	623	287	59	12	1389	100.0	16.6	288	113	234	69	277	78	248	82
PCT	4.0	25.4	44.9	20.7	4.2	.9	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	1.2	5.4	4.5	.6	.2	167	12.0	16.5	10.8	15.9	10.3	20.3	11.6	16.7	10.1	12.2
NE	.9	2.8	1.9	.6	.1	89	6.4	16.1	7.3	4.4	3.8	8.7	8.3	6.4	6.0	6.1
E	.8	4.3	2.6	.9	-.2	122	8.8	16.6	6.9	8.8	8.5	8.7	13.7	10.3	6.9	3.7
SE	1.1	3.1	2.8	.7	-.1	108	7.8	16.2	7.6	8.8	9.0	8.7	6.1	7.7	8.1	7.3
S	1.1	7.0	3.7	1.2	.3	183	13.2	16.3	14.6	7.1	13.7	13.0	13.7	14.1	12.1	15.9
SW	1.9	8.2	6.2	1.2	.4	248	17.9	16.6	18.4	19.5	15.4	15.9	15.9	12.8	22.2	20.7
W	1.7	9.0	8.3	3.3	.9	322	23.2	18.9	24.0	26.5	23.5	14.5	22.0	25.6	24.2	20.7
NW	1.2	4.3	2.4	.9	-.0	123	8.9	15.6	8.3	7.1	12.4	7.2	7.9	5.1	9.3	9.8
VAR	.8	.0	.0	.0	-.0	11	.8	2.8	1.0	.9	.9	1.4	.4	.0	.8	1.2
CALM	1.2					16	1.2	.0	1.0	.9	2.6	1.4	.4	1.3	.4	2.4
TOT	162	613	451	132	31	1389	100.0	16.6	288	113	234	69	277	78	248	82
PCT	11.7	44.1	32.5	9.5	2.2	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1879-1968

TABLE 4

AREA 001 ARGENTIA  
45-47N 53-56W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
0003	.4	6.9	13.0	6.3	1.4	.3	.3	.3	17.0	28.9	401
0609	.4	6.2	9.4	4.1	.9	.1	.2	.5	15.8	21.8	303
1215	.9	5.8	11.2	6.2	1.2	.2	.1	.1	17.3	25.6	355
1821	.5	6.3	11.3	4.0	.9	.3	.2	.2	16.2	23.8	330
TOT	31	350	623	287	59	12	11	16	16.6		1389
PCT	2.2	25.2	44.9	20.7	4.2	.9	.8	1.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION					TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD			
N	2.0	.6	1.5	3.9	91	5.6	
NNE	.8	.2	.4	2.4	43	6.0	
NE	.4	.2	.5	2.6	42	6.7	
ENE	.0	.0	.2	2.5	30	7.9	
E	.6	.1	.2	4.4	60	7.0	
ESE	.3	.2	.4	1.9	31	7.0	
SE	.3	.2	.3	3.4	47	7.2	
SSE	.2	.0	.3	2.8	37	7.5	
S	.9	.3	1.3	4.1	75	6.6	
SSW	1.2	.4	1.3	3.4	73	6.0	
SW	2.5	.6	1.8	3.9	99	5.3	
WSW	3.1	.8	2.0	3.6	108	4.8	
W	5.7	1.9	2.8	7.1	199	4.9	
WNW	3.3	1.0	1.0	2.1	83	4.1	
NW	1.7	.5	1.1	1.6	55	4.6	
NNW	1.1	.6	.9	1.3	44	4.9	
VAR	.1	.0	.1	.3	5	6.0	
CALM	.4	.1	.1	.4	11	4.5	
TOT	277	86	182	588	1133	5.6	
PCT	24.4	7.6	16.1	51.9	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										NH <5/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+		
	149	299	599	999	1999	3499	4999	6499	7999	8000+		
	.7	.0	.3	.4	1.4	1.6	.4	.0	.1	.2	3.0	91
	.5	.0	.2	.3	.9	.5	.1	.0	.0	.1	1.2	43
	.4	.1	.3	.1	.8	.7	.1	.0	.0	.1	1.1	42
	.6	.0	.1	.2	.9	.5	.0	.2	.0	.0	.2	30
	.9	.0	.4	.4	1.8	.4	.3	.0	.0	.1	1.1	60
	.5	.0	.1	.3	.4	.3	.4	.0	.1	.1	.6	31
	1.2	.0	.1	.5	.7	.6	.0	.1	.0	.2	.7	47
	1.0	.0	.0	.4	.7	.2	.3	.0	.2	.0	.6	37
	1.1	.2	.3	.8	.9	.8	.2	.0	.1	.1	2.3	75
	1.0	.0	.2	.4	.3	.7	.2	.3	.1	.4	3.0	73
	.8	.3	.2	.5	1.1	.8	.3	.4	.0	.3	4.1	99
	.4	.0	.2	.4	.9	1.7	.3	.2	.2	.4	4.9	108
	.4	.0	.4	1.5	2.2	3.0	.4	.3	.2	.4	8.9	199
	.1	.0	.2	.3	.8	.7	.4	.2	.1	.1	4.6	83
	.2	.0	.0	.1	.4	.6	.4	.1	.2	.1	2.8	55
	.2	.0	.0	.2	.6	.6	.1	.1	.1	.0	2.0	44
	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.2	5
	.1	.0	.0	.0	.0	.3	.1	.0	.0	.0	.5	11
	114	6	30	75	170	160	42	19	14	27	476	1133
PCT	10.1	.5	2.6	6.6	15.0	14.1	3.7	1.7	1.2	2.4	42.0	100.0



PERIOD: (PRIMARY) 1951-1968  
 (OVER-ALL) 1879-1968

APRIL

AREA 001 ARGENTIA  
 45-47N 53-56W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
 OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	2.5	3.1	3.4	3.4	3.4	3.6	3.6
= OR >5000	3.2	4.8	5.1	5.1	5.1	5.3	5.3
= OR >3500	5.1	8.0	8.7	8.8	8.8	9.0	9.0
= OR >2000	10.6	20.1	22.3	22.6	22.6	23.1	23.1
= OR >1000	14.4	30.1	35.2	36.7	37.5	38.2	38.2
= OR >600	16.2	34.3	41.3	42.9	44.0	44.8	44.8
= OR >300	16.5	35.1	42.7	44.9	46.5	47.4	47.4
= OR >150	16.5	35.2	42.8	45.1	46.6	48.0	48.0
= OR > 0	16.5	35.3	43.4	46.4	49.0	57.3	58.0
TOTAL	187	400	491	525	555	649	657

TOTAL NUMBER OF OBS: 1132

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
20.2	5.8	8.5	3.4	2.4	3.0	4.7	5.9	34.8	11.4	1224

APRIL

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1879-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
<1/2	PCP	.0	.0	.2	.3	.2	.0	.2	.4	.3	.1	.0	.1	.2	.0	.0	.1	.0	.1	22	2.0	
	NO PCP	.6	.3	.2	.2	.5	.5	.8	.7	1.0	.9	1.4	.4	.3	.0	.3	.1	.0	.0	.1	89	8.0
	TOTAL	7	3	4	5	8	5	11	12	14	11	15	5	5	0	3	2	0	0	1	111	10.0
1/2<1	PCP	.4	.2	.2	.1	.1	.0	.0	.1	.2	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	16	1.4
	NO PCP	.1	.1	.2	.0	.0	.4	.2	.2	.2	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	18	1.6
	TOTAL	5	3	4	1	1	4	2	3	4	0	1	3	2	0	1	0	0	0	0	34	3.1
1<2	PCP	.3	.0	.0	.1	.3	.0	.2	.2	.2	.1	.1	.3	.0	.2	.0	.0	.0	.0	.0	20	1.8
	NO PCP	.1	.2	.1	.0	.3	.0	.1	.0	.0	.1	.1	.1	.2	.1	.3	.0	.0	.0	.0	17	1.5
	TOTAL	4	2	1	1	6	0	3	2	2	2	2	4	2	3	3	0	0	0	0	37	3.3
2<5	PCP	.5	.0	.4	.2	.2	.2	.7	.4	.5	.4	.3	.1	.4	.0	.1	.0	.1	.1	.1	48	4.3
	NO PCP	.1	.2	.1	.2	.5	.2	.4	.1	.6	.5	.5	.6	1.3	.4	.0	.0	.0	.0	.1	63	5.7
	TOTAL	6	2	5	4	7	4	12	5	13	10	9	8	18	4	1	0	1	2	111	10.0	
5<10	PCP	.0	.5	.3	.3	.5	.5	.3	.4	.4	.1	.1	.5	.7	.0	.3	.1	.0	.0	.0	54	4.9
	NO PCP	2.5	.6	1.0	.5	1.5	.3	.7	.5	1.6	1.4	2.5	2.6	4.8	1.4	.8	.5	.0	.0	.2	260	23.4
	TOTAL	28	13	14	9	22	9	11	10	22	16	29	35	61	15	12	6	0	2	314	28.3	
10<>	PCP	.0	.1	.0	.0	.1	.2	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	7	.6
	NO PCP	3.7	1.6	1.3	.9	1.2	.6	.5	.3	1.4	3.0	3.7	4.4	9.6	5.2	3.1	3.2	.4	.5	.5	496	44.7
	TOTAL	41	19	14	10	14	9	6	3	16	33	42	50	108	58	34	36	4	6	503	45.3	
TOTAL	91	42	42	30	58	31	45	35	71	72	98	105	196	80	54	44	5	11	1110	100.0		
PCT	8.2	3.8	3.8	2.7	5.2	2.8	4.1	3.2	6.4	6.5	8.8	9.5	17.7	7.2	4.9	4.0	.5	1.0	100.0			

APRIL

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1879-1968

TABLE 9

AREA 001 ARGENTIA  
45-47N 53-56W

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.1	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	4	.4
	4-10	.4	.1	.3	.1	.2	.0	.4	.2	.3	.1	.0	.2	.1	.0	.3	.0	.0		28	2.5
	11-21	.1	.2	.0	.4	.4	.4	.3	.5	.8	.6	1.0	.1	.2	.0	.0	.2	.0		57	5.0
	22&>	.0	.0	.1	.0	.1	.1	.2	.4	.2	.3	.4	.2	.2	.0	.0	.0	.0		22	1.9
	TOTAL	7	3	4	5	8	5	11	12	14	11	15	5	5	0	3	2	0	1	111	9.8
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.2	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0		5	.4
	11-21	.3	.2	.2	.0	.0	.4	.1	.1	.1	.0	.1	.0	.2	.0	.0	.0	.0		17	1.5
	22&>	.2	.1	.0	.1	.1	.0	.1	.1	.3	.0	.0	.2	.0	.0	.0	.0	.0		12	1.1
	TOTAL	5	3	4	1	1	4	2	3	4	0	1	3	2	0	1	0	0	0	34	3.0
1<2	0-3	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.2
	4-10	.0	.2	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0		4	.4
	11-21	.1	.0	.0	.0	.2	.0	.1	.0	.1	.1	.1	.3	.2	.3	.1	.0	.0		16	1.4
	22&>	.2	.0	.1	.1	.2	.0	.2	.2	.1	.1	.0	.1	.0	.0	.2	.0	.0		15	1.3
	TOTAL	4	2	1	1	6	0	3	2	2	2	2	4	2	3	3	0	0	0	37	3.3
2<5	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	4	.4
	4-10	.0	.0	.0	.0	.1	.1	.1	.0	.2	.0	.2	.2	.2	.0	.0	.0	.0		11	1.0
	11-21	.4	.2	.1	.2	.1	.1	.4	.4	.3	.6	.5	.4	.5	.4	.0	.0	.0		50	4.4
	22&>	.2	.0	.3	.2	.4	.2	.5	.1	.7	.3	.1	.2	.9	.0	.1	.0	.0		46	4.1
	TOTAL	6	2	5	4	7	4	12	5	13	10	9	8	18	4	1	0	1	2	111	9.8
5<10	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.2	7	.6
	4-10	.2	.2	.2	.2	.5	.0	.4	.4	.4	.2	.6	.5	.7	.0	.1	.2	.0		53	4.7
	11-21	1.3	.5	.5	.5	.8	.6	.6	.4	1.1	1.1	1.1	1.7	1.8	.8	.4	.3	.0		154	13.6
	22&>	.9	.4	.5	.1	.6	.2	.0	.1	.2	.2	.8	.9	2.9	.5	.5	.1	.0		100	8.8
	TOTAL	28	13	14	9	22	9	11	10	22	16	29	35	61	15	12	6	0	2	314	27.7
10&>	0-3	.1	.0	.0	.0	.1	.1	.0	.0	.0	.1	.0	.0	.2	.0	.0	.1	.2	.5	15	1.3
	4-10	.3	.4	.4	.3	.1	.0	.1	.3	.5	.6	1.1	.6	1.2	.9	.8	.8	.2		97	8.6
	11-21	2.2	1.1	.7	.4	1.0	.5	.4	.2	.9	2.0	2.0	3.0	5.6	3.4	1.7	1.6	.0		302	26.7
	22&>	1.1	.3	.1	.2	.3	.2	.2	.0	.4	.3	.7	1.1	2.8	1.1	.6	.7	.0		111	9.8
	TOTAL	41	20	14	10	16	9	8	5	20	34	43	53	111	60	35	36	4	6	525	46.4
TOTAL		91	43	42	30	60	31	47	37	75	73	99	108	199	82	55	44	5	11	1192	100.0
PCT		8.0	3.8	3.7	2.7	5.3	2.7	4.2	3.3	6.6	6.4	8.7	9.5	17.6	7.2	4.9	3.9	.4	1.0	100.0	

APRIL

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1879-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.9	.1	.5	1.4	4.4	3.8	1.0	1.0	.5	1.0	191	11.1	319
06&09	2.3	.2	.6	1.6	3.8	3.6	.9	.1	.2	.6	158	9.7	270
12&15	2.3	.1	.4	1.9	3.4	3.3	1.0	.3	.3	.3	154	9.9	268
18&21	2.6	.2	1.0	1.6	3.2	3.3	.7	.3	.2	.4	157	12.1	296
TOT PCT	115 10.0	6 .5	30 2.6	75 6.5	171 14.8	161 14.0	42 3.6	19 1.6	14 1.2	27 2.3	660 57.2	493 42.8	1153 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	2.8	.4	.9	2.9	8.1	12.8	317
06&09	2.4	.9	1.1	2.2	5.4	11.4	264
12&15	1.9	.7	.8	1.9	7.7	10.2	264
18&21	2.6	1.1	.5	2.8	6.6	12.0	291
TOT PCT	111 9.8	35 3.1	37 3.3	112 9.9	315 27.7	526 46.3	1136 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ &OR5+	NH <5/8 ANY HGT	TOTAL OBS
00&03	.2	2.6	4.0	12.9	11.1	317
06&09	.3	2.3	3.7	10.2	9.3	264
12&15	.1	2.2	3.1	10.5	9.7	264
18&21	.2	2.7	4.0	9.9	11.8	291
TOT PCT	8 .7	112 9.9	63 5.5	493 43.4	476 41.9	1136 100.0

APRIL

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1879-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
60/64	.0	.0	.0	.0	.0	.0	.0	.2	2	.2
55/59	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
45/49	.0	.0	.0	.0	.2	.1	.2	.7	12	1.2
40/44	.0	.0	.2	.0	.8	.6	3.4	4.9	101	9.9
35/39	.1	.0	.0	.2	1.4	3.7	11.7	29.0	470	46.0
30/34	.0	.0	.1	.4	1.4	4.4	11.4	19.5	379	37.1
25/29	.0	.0	.0	.0	.2	1.2	1.8	2.0	52	5.1
20/24	.0	.0	.0	.0	.0	.0	.0	.4	4	.4
TOTAL	1	0	3	6	40	102	291	578	1021	100.0
PCT	.1	.0	.3	.6	3.9	10.0	28.5	56.6		

TABLE 14

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.0	.1	.0	.0	.0	.0
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
.0	.0	.2	.0	.5	.3	.2	.0	.0	.0
.8	.4	1.7	.9	2.7	2.2	.7	.5	.0	.1
4.7	2.1	5.1	4.0	8.2	7.0	10.8	3.5	.3	.4
4.9	3.0	2.7	2.6	3.0	6.7	9.0	4.3	.3	.5
.7	.5	.1	.1	.2	.4	2.5	.5	.0	.1
.0	.0	.0	.0	.0	.0	.3	.1	.0	.0
11.4	61	100	78	150	170	240	91	6	11
11.2	6.0	9.8	7.6	14.7	16.7	23.5	8.9	.6	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	61	46	41	35	30	27	26	34.9	398
06&09	64	48	44	36	29	22	21	34.5	303
12&15	69	48	41	34	29	26	24	35.3	352
18&21	46	46	44	36	30	27	25	36.3	327
TOT	69	45	41	34	28	25	21	35.2	1380

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.1	.1	1.2	3.4	7.0	17.3	89	299		
06&09	.0	.1	.6	1.6	6.1	14.0	90	230		
12&15	.0	.4	1.1	3.0	7.5	13.7	88	264		
18&21	.0	.3	1.1	1.9	7.9	11.5	88	233		
TOT	1	9	40	102	293	581	89	1026		

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1879-1968

APRIL

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.2	.3	.3	.0	8	.3	.4
9/10	.0	.0	.0	.1	.6	.6	.5	.0	19	.6	1.2
7/8	.0	.0	.0	.5	3.0	1.9	.3	.0	61	1.1	4.6
6	.0	.0	.1	1.2	1.9	.3	.0	.0	38	.7	2.8
5	.0	.0	.1	1.7	3.1	.5	.1	.0	58	.8	4.6
4	.0	.0	.1	5.7	3.1	.4	.2	.0	102	1.8	7.7
3	.0	.0	.4	7.8	3.1	.6	.0	.0	128	1.5	10.4
2	.0	.0	1.5	8.1	2.7	.1	.1	.0	135	1.3	11.3
1	.0	.0	2.0	8.5	2.3	.1	.0	.0	140	1.8	11.2
0	.0	.1	4.0	7.4	1.6	.0	.0	.0	141	1.6	11.5
-1	.0	.2	3.3	4.1	.6	.0	.0	.0	88	1.0	7.2
-2	.0	.6	2.7	1.9	.5	.1	.0	.0	61	.6	5.1
-3	.0	.6	1.1	1.1	.4	.0	.0	.0	34	.3	2.9
-4	.0	1.1	.6	.4	.2	.0	.0	.0	25	.5	1.8
-5	.1	.4	.3	.2	.2	.0	.0	.0	12	.0	1.1
-6	.0	.1	.5	.2	.2	.0	.0	.0	10	.1	.8
-7/-8	.3	.0	.1	.2	.1	.0	.0	.0	7	.2	.5
-9/-10	.2	.1	.0	.2	.0	.0	.0	.0	5	.0	.5
-11/-13	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
TOTAL	6	33	181	532	254	52	15	0	1073	154	919
PCT	.6	3.1	16.9	49.6	23.7	4.8	1.4	.0	100.0	14.4	85.7

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

APRIL  
TABLE 18

AREA 001 ARGENTIA  
45-47N 53-56W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	1.1	.0	.7	.0	.0	.0	5	.0	1.1	.0	.0	.0	.0	3
1-2	.0	2.1	.4	.0	.0	.0	7	.0	.4	.0	.0	.0	.0	1
3-4	.0	.7	1.8	.7	.0	.0	9	.0	.4	1.1	.4	.0	.0	5
5-6	.0	.0	1.8	.7	.0	.0	7	.0	.0	.0	.7	.0	.0	2
7	.0	.0	.7	1.1	.0	.0	5	.0	.0	.0	.4	.0	.0	1
8-9	.0	.0	.0	1.1	.0	.0	3	.0	.0	.4	.0	.0	.0	1
10-11	.0	.0	.0	.4	.4	.0	2	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.4	.0	.0	1
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	3	8	15	11	1	0	38	0	5	4	5	0	0	14
PCT	1.1	2.8	5.3	3.9	.4	.0	13.5	.0	1.8	1.4	1.8	.0	.0	5.0

HGT	E							SE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	.4	.0	.0	.0	.0	.0	1	.0	.7	.0	.0	.0	.0	2
1-2	.0	1.1	.0	.0	.4	.0	4	.4	.4	.7	.0	.0	.0	4
3-4	.0	2.1	1.1	.4	.0	.0	10	.0	.0	.7	.7	.0	.0	4
5-6	.0	.0	.7	.0	.0	.0	2	.0	.0	.0	.0	.0	.0	0
7	.0	.0	.0	.7	.4	.0	3	.0	.0	.0	.0	.4	.0	1
8-9	.0	.0	.4	.4	.0	.0	2	.0	.0	.0	.4	.4	.0	2
10-11	.0	.0	.0	.4	.4	.0	2	.0	.0	.4	.0	.0	.0	1
12	.0	.0	.0	.7	.0	.0	2	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	9	6	7	3	0	26	1	3	5	3	2	0	14
PCT	.4	3.2	2.1	2.5	1.1	.0	9.3	.4	1.1	1.8	1.1	.7	.0	5.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

APRIL

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						TOTAL	SW						TOTAL	
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+		
<1	.0	1.8	.0	.0	.0	.4	6	.0	.4	.0	.0	.0	.0	.0	1
1-2	.0	2.5	1.8	.7	.0	.0	14	.0	2.1	1.4	.0	.0	.0	.0	10
3-4	.0	1.1	2.5	.0	.0	.0	10	.0	1.1	4.6	.4	.0	.0	.0	17
5-6	.0	.0	3.6	.0	.0	.0	10	.0	.4	1.8	1.1	.0	.0	.0	9
7	.0	.0	.7	.7	.0	.0	4	.0	.0	.0	.4	.0	.0	.0	1
8-9	.0	.0	.0	.4	.0	.0	1	.0	.0	.4	.7	.0	.0	.0	3
10-11	.0	.0	.0	.4	.0	.0	1	.0	.0	.7	.4	.0	.0	.0	3
12	.0	.0	.0	.4	.0	.0	1	.0	.0	.0	.4	.0	.0	.0	1
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.4	.0	1
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	0	15	24	7	0	1	47	0	11	25	9	0	1	46	
PCT	.0	5.3	8.5	2.5	.0	.4	16.7	.0	3.9	8.9	3.2	.0	.4	16.4	

HGT	W						TOTAL	NW						TOTAL	GRAND TOTAL	
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+			
<1	.0	1.4	.0	.7	.0	.0	6	.4	.4	.0	.0	.0	.0	.0	2	26
1-2	.0	3.6	2.1	.0	.0	.0	16	.0	1.1	1.4	.0	.0	.0	.0	7	63
3-4	.0	.7	3.2	.0	.0	.0	11	.4	.7	.0	1.1	.0	.0	.0	6	72
5-6	.0	.0	2.5	.7	.0	.0	9	.0	.0	1.4	.4	.0	.0	.0	6	45
7	.0	.0	.0	1.4	1.1	.0	7	.0	.0	.0	1.1	.0	.0	.0	3	25
8-9	.0	.0	.4	1.4	.0	.0	5	.0	.0	.4	.4	.0	.0	.0	2	19
10-11	.0	.0	.4	.7	.4	.0	4	.0	.0	.0	.4	.0	.0	.0	1	14
12	.0	.0	.0	.4	.4	.0	2	.0	.0	.4	.0	.0	.0	.0	1	8
13-16	.0	.0	.0	.7	1.1	.4	6	.0	.0	.0	.4	.0	.0	.0	1	7
17-19	.0	.0	.0	.0	.4	.0	1	.0	.0	.0	.0	.0	.0	.0	0	1
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	1
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	0	16	24	17	9	1	67	0	6	10	10	1	0	29	281	
PCT	.0	5.7	8.5	6.0	3.2	.4	23.8	.7	2.1	3.6	3.6	.4	.0	10.3	100.0	



APRIL

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

TABLE 18 (CONT)

AREA 001 ARGENTIA  
45-47N 53-56W

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+		
<1	3.4	5.8	.7	.7	.0	.3	32	
1-2	2.0	12.9	7.5	.7	.3	.0	69	
3-4	.3	6.5	14.3	3.4	.0	.0	72	
5-6	.0	.3	11.6	3.4	.3	.0	46	
7	.0	.0	1.4	5.4	1.7	.0	25	
8-9	.0	.0	1.7	4.4	.3	.0	19	
10-11	.0	.0	1.4	2.4	1.0	.0	14	
12	.0	.0	.3	2.0	.3	.0	8	
13-16	.0	.0	.0	1.0	1.0	.3	7	
17-19	.0	.0	.0	.0	.3	.0	1	
20-22	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.3	1	
26-32	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	
TOTAL	17	75	114	69	16	3	294	
PCT	5.8	25.5	38.8	23.5	5.4	1.0	100.0	

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	14.2	17.7	8.2	1.8	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	129	3
6-7	.7	1.8	5.0	6.0	5.0	3.2	.7	1.1	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	5
8-9	.0	.0	.4	2.1	3.5	2.1	5.0	2.5	1.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	8
10-11	.0	.0	.4	.7	.4	.4	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
12-13	.0	.0	.0	.0	.4	.0	.4	.7	1.1	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	8	12
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	2	24
INDET	4.3	.0	.4	.0	.4	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	1
TOTAL	19	45	67	48	32	22	20	13	11	2	1	2	0	0	0	0	0	0	0	282	5
PCT	6.7	16.0	23.8	17.0	11.3	7.8	7.1	4.6	3.9	.7	.4	.7	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1948-1968  
(OVER-ALL) 1877-1968AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 1

## PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT FREQ PCPN AT DB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
N	.3	.0	.2	.0	.0	.0	.0	8	.0	.6	.1	.0	11	69	.5	
NNE	.2	.0	.2	.0	.0	.0	.0	8	.0	.9	.1	.0	16	66	.5	
NE	.9	.1	.3	.1	.1	.0	.0	24	.0	1.6	.0	.0	25	92	1.5	
ENE	.9	.0	.2	.0	.1	.0	.0	19	.0	1.0	.0	.0	16	69	1.2	
E	1.2	.1	.5	.0	.0	.0	.0	28	.0	2.0	.0	.0	32	107	1.7	
ESE	.7	.1	.2	.0	.1	.0	.0	20	.0	1.6	.1	.0	27	84	1.2	
SE	.7	.0	.2	.0	.0	.0	.0	16	.0	1.7	.0	.0	27	67	1.0	
SSE	.3	.1	.3	.0	.1	.0	.0	12	.0	1.4	.0	.0	22	73	.7	
S	1.4	.1	.2	.0	.1	.0	.0	29	.0	2.7	.1	.0	45	133	1.8	
SSW	.9	.0	.4	.0	.0	.0	.0	22	.0	1.9	.0	.0	31	115	1.4	
SW	.7	.1	.1	.0	.1	.0	.0	15	.0	2.2	.1	.0	38	143	.9	
WSW	.4	.1	.0	.0	.0	.0	.0	9	.0	1.7	.2	.0	31	160	.6	
W	.3	.0	.1	.0	.1	.0	.0	8	.1	1.1	.1	.0	20	161	.5	
WNW	.2	.0	.1	.0	.0	.0	.0	4	.0	.4	.0	.0	6	89	.2	
NW	.2	.0	.2	.0	.1	.0	.0	7	.0	.7	.1	.0	14	81	.4	
NNW	.1	.0	.0	.1	.1	.0	.0	5	.0	.1	.0	.0	2	59	.3	
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	.0	.0	3	7	.0	
CALM	.1	.0	.1	.0	.0	.0	.0	2	.0	.8	.1	.0	14	35	.1	
TOT	15.6	9	5.6	2	1.3	0	0	23.6	1	3.64	1.5	0	3.80	1.610		
PCT	9.7	.6	3.5	.1	.8	.0	.0	14.7	.1	22.6	.9	.0	23.6	100.0	14.7	

TABLE 2

## PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT FREQ PCPN AT DB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
00&03	3.6	.2	1.0	.1	.2	.0	.0	85	.1	5.9	.2	.0	102	479	5.2	
06&09	2.3	.1	.7	.0	.2	.0	.0	54	.0	4.7	.1	.0	77	329	3.3	
12&15	2.1	.1	.7	.0	.2	.0	.0	50	.0	7.0	.3	.0	120	452	3.1	
18&21	1.7	.2	1.0	.1	.2	.0	.0	50	.0	4.9	.3	.0	85	372	3.1	
TOT	15.9	9	5.6	2	1.3	0	0	23.9	1	3.69	1.5	0	3.84	1.632		
PCT	9.7	.6	3.4	.1	.8	.0	.0	14.6	.1	22.5	.9	.0	23.5	100.0	14.6	

MAY

PERIOD: (PRIMARY) 1948-1968  
(OVER-ALL) 1877-1968AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.3	1.6	1.9	.4	.1	.0	78	4.3	12.7	3.9	4.2	5.4	7.0	4.7	5.6	2.5	3.7
NNE	.3	1.4	2.0	.3	.1	.0	74	4.1	12.7	4.6	5.0	4.3	1.4	4.7	3.3	3.2	2.8
NE	.2	1.5	2.8	.9	.1	.0	99	5.5	14.8	4.8	5.9	6.5	8.5	6.1	4.4	3.9	5.5
ENE	.1	1.7	1.8	.3	.1	.0	70	3.9	12.9	4.2	5.9	4.0	7.0	2.8	3.3	3.6	3.7
E	.3	2.3	2.2	1.6	.2	.0	118	6.5	15.1	6.7	5.0	5.1	7.0	6.8	7.8	6.8	8.3
ESE	.2	1.8	2.6	.5	.0	.0	91	5.0	13.6	4.2	8.4	5.4	4.2	4.7	7.8	4.3	5.5
SE	.0	1.4	2.2	.4	.0	.0	72	4.0	14.0	3.9	5.0	4.3	5.6	3.5	5.6	3.9	1.8
SSE	-.1	2.4	1.8	.3	.0	.0	83	4.6	11.9	4.2	5.9	4.0	4.2	5.4	.0	6.4	2.8
S	.3	3.2	3.1	1.1	.2	.0	139	7.7	13.3	8.1	8.4	9.1	4.2	8.3	10.0	6.8	2.8
SSW	.2	2.8	2.9	1.2	.1	.0	129	7.2	13.4	6.5	5.9	5.8	4.2	6.8	10.0	9.6	9.2
SW	.4	3.8	3.8	.8	.1	.0	161	8.9	12.6	10.6	4.2	7.2	5.6	10.6	3.3	8.9	11.9
WSW	.2	3.7	4.4	1.2	.2	.0	176	9.8	13.8	10.6	7.6	9.8	.0	7.1	13.3	12.8	14.7
W	.5	3.0	5.2	2.2	.3	.0	201	11.1	15.4	12.0	11.8	9.4	15.5	11.6	4.4	11.4	11.9
WNW	.1	2.2	2.1	1.6	.1	.0	109	6.0	15.9	6.9	5.9	6.2	5.6	4.0	6.7	6.4	9.2
NW	.2	2.0	1.9	.7	.2	.0	90	5.0	13.6	3.2	4.2	6.2	11.3	5.7	8.9	3.9	2.8
NNW	.2	1.2	1.1	.7	.3	.0	64	3.5	16.7	2.3	5.9	3.6	5.6	3.5	3.3	4.6	1.8
VAR	.3	.1	.0	.0	.0	.0	7	.4	2.7	.5	.0	1.1	.0	.2	.0	.0	.9
CALM	2.3						42	2.3	.0	2.8	.8	2.5	2.8	3.3	2.2	1.1	.9
TOT	112	650	753	255	33	0	1803	100.0	13.6	433	119	276	71	424	90	281	109
PCT	6.2	36.1	41.8	14.1	1.8	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	1.8	4.2	2.1	.3	.0	152	8.4	12.7	8.5	9.2	9.8	8.5	9.4	8.9	5.7	6.4
NE	1.7	4.5	2.6	.6	.0	169	9.4	14.0	9.0	11.8	10.5	15.5	9.0	7.8	7.5	9.2
E	1.8	5.3	3.7	.8	.0	209	11.6	14.4	10.9	13.4	10.5	11.3	11.6	15.6	11.0	13.8
SE	1.3	4.8	2.4	.1	.0	155	8.6	12.9	8.1	10.9	8.3	9.9	9.0	5.6	10.3	4.6
S	2.9	8.0	3.2	.8	.0	268	14.9	13.3	14.5	14.3	14.9	8.5	15.1	20.0	16.4	11.9
SW	2.9	10.9	4.0	.9	.0	337	18.7	13.2	21.2	11.8	17.0	5.6	17.7	16.7	21.7	26.6
W	2.0	8.3	5.3	1.5	.1	310	17.2	15.6	18.9	17.6	15.6	21.1	15.6	11.1	17.8	21.1
NW	1.5	4.2	1.9	.9	.1	154	8.5	14.9	5.5	10.1	9.8	16.9	9.2	12.2	8.5	4.6
VAR	.4	.0	.0	.0	.0	7	.4	2.7	.5	.0	1.1	.0	.2	.0	.0	.9
CALM	2.3					42	2.3	.0	2.8	.8	2.5	2.8	3.3	2.2	1.1	.9
TOT	336	906	453	106	2	1803	100.0	13.6	433	119	276	71	424	90	281	109
PCT	18.6	50.2	25.1	5.9	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1948-1968  
(OVER-ALL) 1877-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00003	1.4	10.6	12.9	4.7	.2	.0	.1	.7	13.4	30.6	552
06009	.7	6.7	8.3	2.4	.5	.0	.2	.5	13.7	19.2	347
12015	1.0	11.6	11.3	3.1	.6	.0	.1	.9	12.8	28.5	514
18021	.5	7.1	9.3	3.9	.6	.0	.1	.2	14.8	21.6	390
TOT	64	649	753	255	33	0	7	42	13.6		1803
PCT	3.5	36.0	41.8	14.1	1.8	.0	.4	2.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBS		
N	1.1	.3	.8	2.4	60	5.8
NNE	.6	.0	.8	2.5	51	6.5
NE	.5	.2	.6	4.6	78	7.1
ENE	.5	.1	.3	3.4	55	7.1
E	.4	.2	.6	4.7	77	7.3
ESE	.2	.2	.8	4.0	68	7.3
SE	.0	.1	.7	3.1	50	7.7
SSE	.6	.2	.8	2.9	60	6.6
S	1.1	.4	1.3	5.2	105	6.5
SSW	.9	.5	1.3	3.6	83	6.3
SW	2.2	.2	1.5	4.3	108	5.6
WSW	3.4	1.1	2.1	4.0	138	4.9
W	5.0	.7	2.5	2.8	144	4.1
WNW	2.8	.4	1.9	1.5	85	4.3
NW	1.1	.6	.8	2.1	59	5.3
NNW	1.3	.5	1.0	1.5	56	5.1
VAR	.2	.0	.1	.2	5	4.6
CALM	.8	.0	.2	.9	26	4.8
TOT	297	75	236	700	1308	5.8
PCT	22.7	5.7	18.0	53.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION											NH <5/8 ANY HGT	TOTAL OBS
000	150	300	600	1000	2000	3500	5000	6500	8000+			
149	299	599	999	1999	3499	4999	6499	7999	8000+			
.3	.0	.2	.2	1.0	.8	.2	.2	.1	.1	1.6	60	
.7	.1	.2	.3	1.0	.5	.0	.2	.0	.1	.9	51	
.8	.1	.7	.6	1.1	.8	.2	.1	.1	.2	1.1	78	
.8	.2	.5	.5	.6	.4	.3	.1	.1	.1	.7	55	
1.5	.0	.2	.8	1.4	.8	.2	.0	.0	.1	1.0	77	
1.0	.2	.4	.5	1.0	.3	.7	.1	.1	.1	.9	68	
1.4	.0	.3	.5	.4	.2	.2	.1	.0	.2	.8	50	
1.5	.2	.0	.3	.5	.2	.0	.2	.2	.1	1.5	60	
2.2	.1	.5	.4	.8	1.0	.3	.2	.2	.1	2.3	105	
1.1	.0	.2	.5	.8	.5	.1	.0	.3	.1	2.8	83	
1.6	.3	.2	.5	.8	.7	.2	.2	.1	.5	3.4	108	
1.2	.1	.3	.5	.4	.7	.6	.3	.2	.5	5.8	138	
.5	.0	.0	.4	1.8	.7	.2	.1	.2	.4	6.7	144	
.3	.0	.2	.2	.8	.8	.2	.1	.0	.2	4.0	85	
.5	.0	.1	.5	.6	.5	.2	.0	.0	.0	2.1	59	
.2	.0	.1	.2	.8	.7	.1	.0	.2	.1	2.1	56	
.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	5	
.5	.0	.1	.0	.2	.1	.0	.0	.1	.1	.9	26	
216	14	52	87	182	124	46	21	25	34	507	1308	
16.5	1.1	4.0	6.7	13.9	9.5	3.5	1.6	1.9	2.6	38.8	100.0	

MAY

PERIOD: (PRIMARY) 1948-1968  
(OVER-ALL) 1877-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	2.6	4.1	4.4	4.4	4.5	4.5	4.5
= OR >5000	3.4	5.7	6.0	6.0	6.1	6.1	6.1
= OR >3500	5.3	9.2	9.6	9.6	9.7	9.7	9.7
= OR >2000	8.9	17.8	18.7	18.8	19.0	19.2	19.2
= OR >1000	14.3	28.7	32.0	32.6	33.0	33.1	33.1
= OR >600	15.9	32.7	37.8	38.9	39.5	39.7	39.8
= OR >300	16.3	34.0	40.7	42.4	43.3	43.7	43.7
= OR >150	16.3	34.3	41.2	43.0	44.2	44.6	44.7
= OR > 0	16.4	34.8	42.1	44.8	47.2	59.0	61.2
TOTAL	214	455	551	586	618	772	801

TOTAL NUMBER OF OBS: 1308

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.0	9.6	6.2	2.4	2.0	2.8	5.5	5.9	30.1	18.5	1503

PERIOD: (PRIMARY) 1948-1968  
(OVER-ALL) 1877-1968

MAY

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	MNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.0	.0	.0	.2	.0	.0	.1	.2	.2	.0	.1	.1	.2	.0	.0	.0	.0	.0	13	1.0
	NO PCP	.2	.6	.8	.4	1.3	.8	1.3	1.3	1.6	1.4	1.7	1.5	.2	.2	.5	.1	.1	.5	178	14.2
	TOTAL	2	7	10	8	16	10	17	18	22	17	22	20	6	2	6	1	1	6	191	15.2
1/2<1	PCP	.0	.1	.1	.0	.0	.0	.2	.2	.2	.1	.1	.0	.0	.1	.0	.1	.0	.0	12	1.0
	NO PCP	.1	.2	.2	.1	.2	.1	.3	.1	.4	.1	.1	.2	.0	.0	.1	.0	.0	.0	24	1.9
	TOTAL	1	3	3	1	2	1	6	3	7	2	2	2	0	1	1	1	0	0	36	2.9
1<2	PCP	.0	.0	.2	.2	.0	.2	.1	.1	.2	.0	.0	.1	.0	.0	.0	.0	.0	.1	14	1.1
	NO PCP	.1	.0	.2	.2	.3	.3	.0	.0	.2	.0	.2	.1	.2	.0	.0	.0	.1	.0	22	1.8
	TOTAL	1	0	4	5	4	6	1	1	5	0	3	2	2	0	0	0	1	1	36	2.9
2<5	PCP	.1	.2	.7	.5	.6	.2	.2	.2	.2	.0	.4	.2	.1	.1	.1	.1	.0	.1	49	3.9
	NO PCP	.2	.2	.2	.4	.2	.3	.1	.2	.6	.4	.4	.4	.2	.2	.2	.0	.0	.1	53	4.2
	TOTAL	3	5	12	11	11	7	3	4	9	5	10	8	3	4	4	1	0	2	102	8.1
5<10	PCP	.4	.2	.6	.3	.6	.7	.5	.2	.6	.6	.2	.2	.2	.1	.0	.2	.0	.0	69	5.5
	NO PCP	1.3	1.0	1.4	.8	1.4	1.3	.5	1.0	1.7	1.4	1.9	2.4	2.4	2.2	1.0	.9	.1	.6	289	23.1
	TOTAL	21	14	25	14	24	25	12	14	28	26	27	33	32	29	13	13	1	7	358	28.6
10<>	PCP	.1	.0	.1	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.3
	NO PCP	2.3	1.8	1.8	1.2	1.4	1.1	.8	1.3	2.5	2.3	3.4	5.4	6.6	3.4	2.7	3.1	.2	.8	526	42.0
	TOTAL	30	22	23	15	19	14	10	16	32	29	42	68	83	42	34	39	2	10	530	42.3
TOTAL	58	51	77	54	76	63	49	56	103	79	106	133	126	78	58	55	5	26	1253	100.0	
PCT	4.6	4.1	6.1	4.3	6.1	5.0	3.9	4.5	8.2	6.3	8.5	10.6	10.1	6.2	4.6	4.4	.4	2.1	100.0		

MAY

PERIOD: (PRIMARY) 1948-1968  
(OVER-ALL) 1877-1968

TABLE 9

AREA 001 ARGENTIA  
45-47N 53-56WPERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.1	.0	.1	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	.5	12	.9
	4-10	.1	.2	.2	.1	.4	.2	.3	.5	.6	.5	.7	.8	.2	.0	.2	.1	.0		64	4.9
	11-21	.1	.2	.4	.5	.7	.5	1.0	.8	.8	.7	.9	.8	.1	.1	.2	.0	.0		98	7.5
	22<	.0	.0	.2	.0	.2	.0	.0	.2	.2	.2	.2	.0	.2	.1	.0	.0	.0		17	1.3
	TOTAL	2	7	10	8	16	10	17	18	22	17	22	20	6	2	6	1	1	6	191	14.6
1/2<1	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
	4-10	.0	.1	.1	.0	.1	.0	.1	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0		6	.5
	11-21	.0	.1	.0	.1	.0	.1	.3	.2	.4	.2	.0	.1	.0	.1	.1	.1	.0		21	1.6
	22<	.1	.0	.2	.0	.1	.0	.1	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0		8	.6
	TOTAL	1	3	3	1	2	1	6	3	7	2	2	2	0	1	1	1	0	0	36	2.8
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	2	.2
	4-10	.0	.0	.0	.1	.3	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0		7	.5
	11-21	.1	.0	.2	.3	.0	.3	.1	.1	.2	.0	.2	.1	.1	.0	.0	.0	.0		22	1.7
	22<	.0	.0	.1	.0	.0	.1	.0	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0		5	.4
	TOTAL	1	0	4	5	4	6	1	1	5	0	3	2	2	0	0	0	1	1	36	2.8
2<3	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	2	.2
	4-10	.1	.1	.1	.2	.1	.2	.1	.1	.2	.1	.3	.0	.1	.0	.2	.0	.0		21	1.6
	11-21	.2	.2	.7	.3	.2	.2	.2	.2	.2	.1	.4	.3	.1	.3	.1	.1	.0		46	3.5
	22<	.0	.2	.2	.4	.6	.1	.0	.1	.3	.2	.2	.3	.1	.0	.1	.0	.0		34	2.6
	TOTAL	3	5	12	11	11	7	3	4	9	5	11	8	3	4	4	1	0	2	103	7.9
5<10	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1	.5	11	.8
	4-10	.3	.1	.2	.5	.4	.5	.3	.4	.8	.2	.6	.5	.4	.3	.2	.0	.0		71	5.4
	11-21	1.1	.8	1.2	.6	.8	1.0	.3	.6	1.1	1.4	1.2	1.5	1.3	1.1	.8	.5	.0		201	15.4
	22<	.2	.2	.5	.0	.5	.5	.3	.1	.2	.5	.2	.5	.8	.8	.0	.5	.0		76	5.8
	TOTAL	21	14	25	14	24	25	12	14	28	26	27	33	33	29	13	13	1	7	359	27.4
10<	0-3	.2	.2	.0	.0	.0	.1	.0	.0	.2	.1	.2	.0	.3	.1	.2	.1	.2	.8	31	2.4
	4-10	1.1	.5	.4	.4	.6	.5	.2	.6	.9	1.3	1.2	1.8	1.5	1.0	.8	1.1	.0		183	14.0
	11-21	.8	.8	1.4	.8	.8	.8	.5	.8	1.1	1.1	1.8	3.1	4.2	1.6	1.1	1.1	.0		288	22.0
	22<	.3	.1	.1	.0	.1	.1	.2	.1	.4	.0	.2	.7	1.7	1.1	.6	.7	.0		81	6.2
	TOTAL	32	22	24	16	20	18	11	20	33	33	44	73	100	50	35	40	2	10	583	44.6
TOTAL	60	51	78	55	77	67	50	60	104	83	109	138	144	86	59	56	5	26	1308	100.0	
PCT	4.6	3.9	6.0	4.2	5.9	5.1	3.8	4.6	8.0	6.3	8.3	10.6	11.0	6.6	4.5	4.3	.4	2.0	100.0		

## MAY

PERIOD: (PRIMARY) 1948-1968  
(OVER-ALL) 1877-1968AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND  
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	4.8	.3	.7	1.7	5.0	2.2	.9	.5	.4	.7	237	10.6	383
06&09	3.3	.2	.7	1.7	2.2	2.6	.6	.4	.1	.3	167	8.7	287
12&15	4.4	.4	1.5	1.7	3.0	2.2	.9	.3	.7	.8	218	9.6	350
18&21	3.4	.1	.9	1.4	3.3	2.3	1.0	.3	.5	.7	192	11.7	353
TOT PCT	218 15.9	14 1.0	53 3.9	88 6.4	185 13.5	128 9.3	48 3.5	21 1.5	25 1.8	34 2.5	814 59.3	559 40.7	1373 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	4.0	1.1	.9	1.7	8.0	12.1	368
06&09	3.3	.4	.6	1.3	6.1	9.1	276
12&15	3.9	.8	.8	2.6	6.3	11.2	337
18&21	3.4	.5	.5	2.3	6.8	12.4	343
TOT PCT	193 14.6	36 2.7	36 2.7	105 7.9	361 27.3	593 44.8	1324 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND  
CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ &DR5+	NH <5/8 ANY HGT	TOTAL OBS
00&03	.7	4.6	6.2	11.6	10.0	368
06&09	.3	3.3	4.7	7.9	8.2	276
12&15	.5	4.2	6.3	10.1	9.0	337
18&21	.7	3.3	4.8	9.6	11.5	343
TOT PCT	28 2.1	205 15.5	115 8.7	520 39.3	512 38.7	1324 100.0



MAY

PERIOD: (PRIMARY) 1948-1968  
(OVER-ALL) 1877-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
53/59	.0	.0	.0	.2	.1	.0	.2	.1	6	.5
50/54	.0	.0	.1	.0	.2	.1	.3	.0	9	.7
45/49	.0	.0	.0	.2	.9	2.1	1.4	4.2	115	8.7
40/44	.0	.0	.0	.2	1.3	3.6	10.6	22.5	503	38.2
35/39	.0	.0	.0	.2	1.1	2.8	12.0	29.6	602	45.7
30/34	.0	.0	.0	.0	.5	.6	1.9	3.1	81	6.2
TOTAL	0	0	1	11	55	121	346	782	1316	100.0
PCT	.0	.0	.1	.8	4.2	9.2	26.3	59.4		

TABLE 14

	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW				
53/59	.0	.1	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0
50/54	.0	.0	.0	.2	.2	.1	.2	.0	.0	.0	.0	.2
45/49	.2	.4	1.3	.8	2.4	2.1	.7	.6	.0	.0	.3	.3
40/44	2.7	2.8	4.1	4.7	7.9	7.2	5.4	1.9	.3	1.1	1.1	.3
35/39	4.6	5.1	6.1	3.6	4.7	8.2	8.6	4.1	.1	.8	.8	.8
30/34	.4	.7	.7	.1	.3	1.2	1.8	1.0	.0	.0	.0	.0
TOTAL	103	119	160	124	204	248	222	100	5	31	5	31
PCT	7.8	9.0	12.2	9.4	15.5	18.8	16.9	7.6	.4	2.4	.4	2.4

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR								TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	
00003	56	49	44	38	33	31	30	39.0	555
06009	53	49	45	38	33	32	32	38.4	350
12015	72	50	46	39	34	32	30	39.9	519
18021	61	55	48	40	34	33	31	40.9	394
TOT	72	52	47	39	33	30	30	39.5	1818

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR						MEAN	TOTAL OBS
	0-29	30-39	60-69	70-79	80-89	90-100		
00003	.0	.3	.7	2.7	7.6	17.1	89	380
06009	.0	.0	.7	.9	5.5	13.5	91	275
12015	.1	.2	1.0	2.5	6.5	17.1	89	368
18021	.0	.4	1.6	3.1	6.8	11.5	87	314
TOT	1	12	56	124	353	791	89	1337

PERIOD: (PRIMARY) 1948-1968  
(OVER-ALL) 1877-1968

MAY

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29	33	37	41	45	49	53	TOT	W FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
14/16	.0	.0	.0	.0	.2	.1	.1	6	.0	.4
11/13	.0	.0	.0	.1	.6	.1	.0	12	.3	.6
9/10	.0	.0	.2	.9	1.2	.6	.1	41	.9	2.0
7/8	.0	.0	1.3	1.8	2.0	.1	.0	74	1.3	4.0
6	.0	.2	2.0	2.7	.7	.2	.0	82	1.9	3.9
5	.0	.6	4.1	3.2	.9	.1	.0	125	2.3	6.6
4	.0	1.1	6.2	4.4	.8	.1	.0	177	3.0	9.6
3	.0	1.3	7.0	3.8	.6	.0	.0	180	3.0	9.8
2	.1	3.9	6.2	2.9	.1	.1	.0	188	2.8	10.6
1	.1	5.1	5.7	2.3	.0	.0	.0	187	3.2	10.1
0	.3	3.3	5.2	1.9	.4	.1	.0	157	2.3	8.9
-1	.2	2.6	2.3	.5	.0	.0	.0	79	1.0	4.6
-2	.1	1.5	1.3	.3	.0	.0	.0	45	.4	2.8
-3	.1	.8	.6	.4	.0	.0	.0	26	.6	1.3
-4	.0	.1	.5	.1	.1	.0	.0	11	.2	.6
-5	.1	.0	.2	.1	.0	.0	.0	5	.1	.3
-6	.1	.0	.0	.1	.0	.0	.0	2	.0	.1
-7/-8	.0	.1	.2	.0	.0	.0	.0	5	.0	.4
TOTAL	16	292	605	358	108	21	3	1403	327	1076
PCT	1.1	20.8	43.1	25.5	7.7	1.5	.2	100.0	23.3	76.7

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

MAY  
TABLE 18

AREA 001 ARGENTIA  
45-47N 53-56W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						TOTAL	NE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	1.2	.9	.0	.0	.0	.0	7	.3	.9	.0	.0	.0	.0	4
1-2	.0	2.4	.6	.0	.0	.0	10	.0	.9	.3	.0	.0	.0	4
3-4	.0	.9	1.2	.0	.0	.0	7	.0	1.2	1.5	.0	.0	.0	9
5-6	.0	.3	.3	.3	.0	.0	3	.0	.0	.9	.0	.0	.0	3
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.9	.3	.0	.0	4
8-9	.0	.0	.3	.0	.0	.0	1	.0	.0	.0	.3	.3	.0	2
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.3	.0	1	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	4	15	8	1	1	0	29	1	10	12	2	1	0	26
PCT	1.2	4.5	2.4	.3	.3	.0	8.6	.3	3.0	3.6	.6	.3	.0	7.7

HGT	E						TOTAL	SE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.0	.3	.0	.0	.0	.0	1	.0	.6	.0	.0	.0	.0	2
1-2	.3	.9	.6	.0	.0	.0	6	.0	1.8	.0	.0	.0	.0	6
3-4	.0	2.1	2.7	.0	.0	.0	16	.0	.3	2.1	.0	.0	.0	8
5-6	.0	.3	.9	.3	.0	.0	5	.0	.0	.6	.0	.0	.0	2
7	.0	.0	1.2	.3	.0	.0	5	.0	.0	.9	.0	.0	.0	3
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.3	.0	.0	1	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.3	.0	.0	1	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	12	18	4	0	0	35	0	9	12	0	0	0	21
PCT	.3	3.6	5.3	1.2	.0	.0	10.4	.0	2.7	3.6	.0	.0	.0	6.2

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

MAY  
TABLE 18

AREA 001 ARGENTIA  
45-47N 53-56W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	
<1	.3	1.5	.0	.0	.0	.0	6	.0	1.5	.6	.0	.0	.0	7	
1-2	.6	4.7	1.8	.0	.0	.0	24	.3	2.7	2.7	.0	.0	.0	19	
3-4	.0	2.7	2.7	.6	.0	.0	20	.0	1.5	3.0	.3	.0	.0	16	
5-6	.0	1.2	1.5	1.2	.3	.0	14	.0	.3	1.5	.9	.0	.0	9	
7	.0	.3	.3	.0	.0	.0	2	.0	.0	1.2	.3	.0	.0	5	
8-9	.0	.0	.3	.9	.0	.0	4	.0	.0	.0	.9	.0	.0	3	
10-11	.0	.0	.3	.3	.3	.0	3	.0	.0	.0	.3	.0	.0	1	
12	.0	.0	.0	.9	.0	.0	3	.0	.0	.3	.3	.3	.0	2	
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.0	.3	.0	2	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.3	.0	.0	2	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	3	35	23	13	2	0	76	1	20	32	10	1	0	64	
PCT	.9	10.4	6.8	3.9	.6	.0	22.6	.3	5.9	9.5	3.0	.3	.0	19.0	

HGT	W							NW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.0	.9	.3	.0	.0	.0	4	.0	.6	.0	.0	.0	.0	2	33	
1-2	.0	1.8	1.8	.0	.0	.0	12	.0	1.2	.3	.0	.0	.0	5	86	
3-4	.0	2.1	4.7	.6	.0	.0	25	.3	.3	.9	.3	.0	.0	6	107	
5-6	.0	.9	2.1	.9	.0	.0	13	.0	.0	.9	.3	.0	.0	4	53	
7	.0	.0	1.2	.3	.0	.0	5	.0	.0	.3	.3	.0	.0	2	26	
8-9	.0	.0	.0	.3	.0	.0	1	.0	.0	.0	.3	.0	.0	0	11	
10-11	.0	.0	.0	.6	.0	.0	2	.0	.0	.0	.0	.0	.0	0	7	
12	.0	.0	.0	.0	.3	.0	1	.0	.0	.6	.0	.0	.0	2	10	
13-16	.0	.0	.0	.3	.0	.0	1	.0	.0	.0	.0	.3	.0	1	4	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
TOTAL	0	19	34	10	1	0	64	1	7	10	3	1	0	22	337	
PCT	.0	5.6	10.1	3.0	.3	.0	19.0	.3	2.1	3.0	.9	.3	.0	6.5	100.0	

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

MAY

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)							
HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	4.3	7.2	.9	.0	.0	.0	43
1-2	1.4	15.8	7.7	.0	.0	.0	87
3-4	.3	10.6	18.1	1.7	.0	.0	107
5-6	.0	2.9	8.3	3.7	.3	.0	53
7	.0	.3	5.7	1.4	.0	.0	26
8-9	.0	.0	.6	2.3	.3	.0	11
10-11	.0	.0	.3	1.4	.3	.0	7
12	.0	.0	.9	1.1	.9	.0	10
13-16	.0	.0	.3	.6	.3	.0	4
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.3	.0	1
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	21	128	149	43	8	0	349
PCT	6.0	36.7	42.7	12.3	2.3	.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)																					
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	13.1	15.7	8.5	3.4	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	153	3
6-7	.3	.3	8.8	11.2	5.1	1.1	1.4	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	5
8-9	.0	.0	2.6	3.1	1.1	3.4	1.4	1.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	7
10-11	.0	1.1	1.1	.9	1.4	.9	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	5
12-13	.0	.0	.3	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	15
INDET	2.6	.3	1.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	1
TOTAL	18	52	104	87	41	20	13	11	5	0	0	0	0	0	0	0	0	0	0	351	4
PCT	5.1	14.8	29.6	24.8	11.7	5.7	3.7	3.1	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1949-1968  
(OVER-ALL) 1869-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW		
N	.2	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	7	66	.2
NNE	.2	.0	.0	.0	.0	.0	.0	.0	.5	.0	.1	.0	9	35	.2
NE	.5	.0	.1	.0	.0	.0	.0	.0	.6	.0	.0	.0	10	55	.6
ENE	.4	.1	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	7	47	.9
E	1.0	.0	.4	.0	.0	.0	.0	.0	1.3	.0	.1	.0	22	84	1.4
ESE	.7	.1	.1	.0	.0	.0	.0	.0	.9	.0	.0	.0	14	48	.9
SE	.6	.1	.3	.0	.0	.0	.0	.0	2.3	.1	.1	.0	39	93	.9
SSE	.6	.0	.3	.0	.0	.0	.0	.0	2.1	.1	.0	.0	35	85	.8
S	.3	.0	.2	.0	.0	.0	.0	.0	4.5	.1	.0	.0	73	150	.4
SSW	.7	.0	.2	.0	.0	.0	.0	.0	4.7	.3	.0	.0	80	163	.9
SW	.6	.0	.3	.0	.0	.0	.0	.0	4.9	.2	.1	.0	82	250	.9
WSW	.2	.0	.3	.0	.0	.0	.0	.0	3.2	.1	.0	.0	53	155	.4
W	.3	.1	.1	.0	.0	.0	.0	.0	1.6	.0	.0	.0	23	163	.4
WNN	.1	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	12	66	.1
NW	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	14	42	.0
NNW	.1	.0	.1	.0	.0	.0	.0	.0	.3	.0	.0	.0	4	33	.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	6	10	.0
CALM	.1	.0	.1	.0	.0	.0	.0	.0	1.1	.0	.0	.0	18	42	.1
TOT	102	5	40	0	0	0	0	4	489	16	1	510	1587		
PCT	6.4	.3	2.5	.0	.0	.0	.0	9.3	.3	30.8	1.0	.1	32.1	100.0	9.3

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW		
00003	2.1	.2	.9	.0	.0	.0	.0	.1	7.9	.2	.1	.1	131	481	3.2
06009	1.7	.1	.6	.0	.0	.0	.0	.1	6.5	.1	.0	.0	108	331	2.4
12015	1.3	.1	.6	.0	.0	.0	.0	.0	8.3	.5	.0	.0	142	429	1.9
18021	1.4	.1	.4	.0	.0	.0	.0	.1	8.0	.2	.0	.0	132	364	1.8
TOT	104	6	40	0	0	0	0	4	492	16	1	513	1605		
PCT	6.5	.4	2.5	.0	.0	.0	.0	9.3	.2	30.7	1.0	.1	32.0	100.0	9.3

JUNE

PERIOD: (PRIMARY) 1949-1968  
(OVER-ALL) 1869-1968

TABLE 3

AREA 001 ARGENTIA  
45-47N 53-56W

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.2	1.5	1.4	.8	.0	.0	70	4.0	14.0	2.0	4.5	6.1	7.8	5.6	4.8	2.4	1.1
NNE	.2	.7	.8	.5	.0	.0	38	2.2	13.8	1.3	3.6	2.5	.0	3.6	3.6	1.4	.0
NE	.3	1.4	1.2	.7	.0	.0	64	3.6	12.7	4.7	.9	3.6	4.7	3.8	3.6	2.7	3.3
ENE	.2	.8	1.4	.2	.0	.1	48	2.7	14.0	2.9	.9	3.6	.0	2.3	6.0	2.7	2.2
E	.9	1.8	2.2	.4	.1	.0	96	5.4	11.6	5.5	6.3	4.6	4.7	5.4	4.8	5.8	6.5
ESE	.1	.8	1.6	.4	.0	.0	50	2.8	14.8	3.8	4.5	2.1	1.6	1.8	1.2	3.4	3.3
SE	.5	2.5	2.2	.7	.1	.0	104	5.9	12.1	7.1	4.5	4.6	9.4	5.9	3.6	5.8	5.4
SSE	.5	2.1	2.0	.3	.2	.0	90	5.1	12.6	6.4	7.2	3.9	3.1	4.1	4.8	5.1	5.4
S	.8	4.1	3.6	.6	.0	.0	161	9.1	11.2	9.5	5.4	7.1	3.1	9.0	7.1	11.6	16.3
SSW	.4	3.3	5.3	1.5	.0	.0	186	10.5	13.7	10.2	10.8	10.4	6.3	10.5	13.1	10.9	12.0
SW	.6	5.8	8.0	1.4	.2	.0	283	16.0	13.4	18.8	18.0	15.4	15.6	13.8	15.5	14.7	16.3
WSW	.2	3.9	4.4	1.2	.1	.0	172	9.7	13.3	8.2	10.8	10.7	9.4	8.7	11.9	10.2	14.1
W	.5	4.0	4.5	1.5	.1	.0	186	10.5	13.5	11.8	8.1	9.6	12.5	10.8	8.3	10.9	8.7
WNW	.2	1.8	1.9	.4	.1	.0	78	4.4	13.3	3.3	6.3	4.3	7.8	3.8	6.0	5.5	3.3
NW	.2	1.0	1.2	.1	.0	.0	44	2.5	10.4	1.3	2.7	2.5	4.7	3.3	2.4	3.4	.0
NNW	.1	1.1	.8	.2	.0	.0	39	2.2	11.8	.9	2.7	3.6	6.3	3.6	2.4	.7	.0
VAR	.6	.0	.0	.0	.0	.0	10	.6	2.0	.2	.0	.0	1.6	1.0	1.2	1.0	.0
CALM	2.6						46	2.6	.0	2.0	2.7	5.4	1.6	2.8	.0	1.7	2.2
TOT	158	647	752	191	16	1	1765	100.0	12.5	451	111	280	64	390	84	293	92
PCT	9.0	36.7	42.6	10.8	.9	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	1.3	2.8	1.6	.5	.0	108	6.1	13.9	3.3	8.1	8.6	7.8	9.2	8.3	3.8	1.1
NE	1.4	3.2	1.5	.2	.1	112	6.3	13.2	7.5	1.8	7.1	4.7	6.2	9.5	5.5	5.4
E	2.0	4.0	1.8	.5	.0	146	8.3	12.7	9.3	10.8	6.8	6.3	7.2	6.0	9.2	9.8
ESE	2.7	5.6	2.3	.4	.1	194	11.0	12.3	13.5	11.7	8.6	12.5	10.0	8.3	10.9	10.9
S	3.9	10.7	4.8	.3	.0	347	19.7	12.6	19.7	16.2	17.5	9.4	19.5	20.2	22.5	28.3
SSW	4.1	14.4	6.6	.7	.0	455	25.8	13.3	27.1	28.8	26.1	25.0	22.6	27.4	24.9	30.4
SW	2.5	8.4	3.3	.6	.1	264	15.0	13.4	15.1	14.4	13.9	20.3	14.6	14.3	16.4	12.0
WNW	1.2	2.7	.8	.0	.0	83	4.7	11.0	2.2	5.4	6.1	10.9	6.9	4.8	4.1	.0
NW	.6	.0	.0	.0	.0	10	.6	2.0	.2	.0	.0	1.6	1.0	1.2	1.0	.0
VAR	.6	.0	.0	.0	.0	10	.6	2.0	.2	.0	.0	1.6	1.0	1.2	1.0	.0
CALM	2.6					46	2.6	.0	2.0	2.7	5.4	1.6	2.8	.0	1.7	2.2
TOT	393	912	400	56	4	1765	100.0	12.5	451	111	280	64	390	84	293	92
PCT	22.3	51.7	22.7	3.2	.2	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1949-1968  
(OVER-ALL) 1869-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	2.0	11.8	13.6	3.4	.3	.0	.1	.7	12.5	31.8	562
06&09	.7	6.8	9.1	1.8	.2	.0	.1	.9	12.6	19.5	344
12&15	1.8	9.9	11.2	2.9	.2	.0	.3	.6	12.1	26.9	474
18&21	1.3	8.2	8.7	2.8	.3	.1	.2	.4	13.1	21.8	385
TOT	102	647	752	191	16	1	10	46	12.5		1765
PCT	5.8	36.7	42.6	10.8	.9	.1	.6	2.6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION					MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBS	TOTAL OBS	
N	.9	.2	1.3	2.2	58	6.0
NNE	.3	.0	.6	1.4	30	6.5
NE	.2	.1	.6	2.9	47	7.2
ENE	.2	.2	.6	2.1	37	7.1
E	.3	.2	.6	4.1	66	7.3
ESE	.3	.1	.5	1.9	35	6.8
SE	.7	.0	1.0	3.7	68	6.8
SSE	.4	.2	.7	3.3	58	6.9
S	1.0	.2	1.2	6.0	106	6.7
SSW	2.0	.6	1.4	6.5	131	6.2
SW	3.6	1.4	2.9	7.4	193	5.6
WSW	3.5	.9	2.4	3.3	127	4.8
W	5.1	1.1	2.5	2.2	137	3.9
WNW	1.8	.7	.8	1.4	58	4.3
NW	.8	.2	.9	.9	34	5.2
NNW	.7	.2	.3	1.5	35	5.5
VAR	.1	.1	.0	.1	3	3.7
CALM	.6	.2	.2	1.5	32	5.6
TOT	283	83	232	657	1255	5.8
PCT	22.5	6.6	18.5	52.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)

	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										NH <5/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+		
	149	299	599	999	1999	3499	4999	6499	7999			
N	.3	.0	.0	.3	1.3	.9	.1	.0	.1	.0	1.7	58
NNE	.2	.0	.1	.4	.7	.2	.2	.0	.0	.0	.6	30
NE	.6	.0	.3	.6	.9	.6	.2	.0	.2	.0	.4	47
ENE	.4	.1	.2	.6	.9	.2	.0	.0	.0	.0	.6	37
E	.9	.0	.7	.7	1.0	.4	.3	.1	.0	.2	1.0	66
ESE	.7	.0	.1	.5	.6	.1	.1	.0	.0	.2	.6	35
SE	1.9	.0	.3	.2	.6	.6	.0	.2	.0	.2	1.4	68
SSE	1.6	.1	.2	.1	.6	.3	.1	.1	.0	.3	1.3	58
S	3.6	.1	.1	.2	.8	.6	.4	.0	.2	.4	2.1	106
SSW	4.3	.1	.4	.6	.6	.3	.2	.0	.3	.0	3.6	131
SW	4.1	.1	.0	.4	1.4	1.0	.4	.2	.1	.5	7.2	193
WSW	2.2	.0	.1	.2	.7	.5	.2	.1	.2	.2	5.9	127
W	.8	.2	.3	.3	.4	.9	.3	.0	.1	.5	7.2	137
WNW	.5	.0	.0	.0	.2	.3	.2	.1	.1	.2	3.2	58
NW	.6	.1	.0	.0	.1	.2	.2	.3	.0	.0	1.2	34
NNW	.3	.0	.0	.1	.6	.6	.2	.0	.0	.0	1.1	35
VAR	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	3
CALM	.8	.2	.0	.3	.1	.2	.0	.0	.0	.1	1.0	32
TOT	298	10	35	68	144	99	38	13	15	33	502	1255
PCT	23.7	.8	2.8	5.4	11.5	7.9	3.0	1.0	1.2	2.6	40.0	100.0



JUNE

PERIOD: (PRIMARY) 1949-1968  
(OVER-ALL) 1869-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	2.2	3.7	3.8	3.8	3.8	3.8	3.8
= OR >5000	2.7	4.6	4.7	4.7	4.8	4.9	4.9
= OR >3500	4.4	7.4	7.8	7.8	7.8	7.9	7.9
= OR >2000	8.7	14.3	15.3	15.5	15.7	15.8	15.8
= OR >1000	12.9	23.3	26.1	26.9	27.1	27.3	27.3
= OR >600	14.3	26.9	30.9	32.1	32.5	32.8	32.8
= OR >300	14.6	27.9	32.8	34.1	34.9	35.5	35.6
= OR >150	14.7	28.1	33.1	34.4	35.3	36.3	36.4
= OR > 0	14.7	28.1	33.6	36.0	38.8	56.8	60.1
TOTAL	184	352	420	450	485	711	752

TOTAL NUMBER OF OBS: 1251

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
18.6	7.6	5.6	3.9	2.1	3.0	3.8	5.5	23.5	26.3	1444

PERIOD: (PRIMARY) 1949-1968  
(OVER-ALL) 1869-1968

JUNE

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.0	.0	.0	.0	.0	.3	.1	.2	.0	.2	.2	.0	.1	.0	.0	.0	.0	.0	12	1.0
	NO PCP	.3	.2	.3	.5	.6	.3	1.4	1.5	3.7	4.1	3.6	2.3	1.1	.5	.7	.2	.2	.8	270	22.4
	TOTAL	4	3	4	6	7	8	18	20	45	51	46	28	14	6	8	2	2	10	282	23.4
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.1	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.2	9	.7
	NO PCP	.0	.0	.0	.2	.2	.2	.4	.2	.2	.2	.2	.3	.0	.1	.2	.1	.0	.0	29	2.4
	TOTAL	0	0	0	2	3	2	6	4	3	6	2	4	0	1	2	1	0	2	38	3.2
1<2	PCP	.0	.0	.0	.1	.3	.2	.1	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	10	.8
	NO PCP	.0	.1	.2	.0	.2	.1	.3	.1	.1	.2	.2	.2	.1	.0	.0	.1	.0	.1	23	1.9
	TOTAL	0	1	2	1	7	3	5	1	2	2	2	4	1	0	0	1	0	1	33	2.7
2<5	PCP	.0	.1	.3	.6	.4	.1	.1	.2	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	28	2.3
	NO PCP	.1	.2	.2	.1	.2	.2	.2	.2	.2	.8	.7	.7	.4	.1	.0	.0	.0	.1	55	4.6
	TOTAL	1	3	6	8	8	3	4	6	5	12	11	9	5	1	0	0	0	1	83	6.9
5<10	PCP	.2	.1	.1	.1	.3	.2	.2	.0	.0	.2	.4	.1	.2	.1	.0	.0	.0	.0	26	2.2
	NO PCP	1.1	.6	1.3	.6	1.6	.5	.7	.6	1.5	2.4	2.9	1.4	1.8	.8	.5	.2	.0	.4	228	18.9
	TOTAL	15	8	17	8	23	9	11	7	18	31	40	18	24	11	6	3	0	5	254	21.1
10<>	PCP	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.1	.1	.1	.1	.0	.1	.0	.0	8	.7
	NO PCP	3.0	1.2	1.2	.9	1.1	.7	1.8	1.6	2.7	2.2	6.6	4.5	7.3	2.9	1.4	1.9	.1	1.1	508	42.1
	TOTAL	36	15	14	12	13	10	22	19	32	27	81	55	89	36	17	24	1	13	516	42.8
TOTAL	56	30	43	37	61	35	66	57	105	129	182	118	133	55	33	31	3	32	1206	100.0	
PCT	4.6	2.5	3.6	3.1	5.1	2.9	5.5	4.7	8.7	10.7	15.1	9.8	11.0	4.6	2.7	2.6	.2	2.7	100.0		

JUNE

PERIOD: (PRIMARY) 1949-1968  
(OVER-ALL) 1869-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.1	.1	.1	.0	.0	.0	.2	.0	.1	.2	.2	.0	.0	.0	.1	.1	.2	.8	24	1.9
	4-10	.2	.2	.2	.1	.6	.2	.6	.4	1.0	.8	.9	.3	.4	.2	.3	.0	.0		78	6.2
	11-21	.1	.0	.1	.4	.0	.5	.6	1.0	2.2	2.1	2.6	1.8	.8	.3	.2	.1	.0		161	12.9
	22&>	.0	.0	.0	.0	.0	.0	.1	.2	.2	1.0	.3	.2	.0	.0	.0	.0	.0		27	2.2
	TOTAL	4	3	5	6	7	8	18	21	45	51	49	30	15	6	8	2	2	10	290	23.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	3	.2
	4-10	.0	.0	.0	.1	.1	.2	.2	.1	.1	.1	.1	.2	.0	.0	.2	.0	.0		15	1.2
	11-21	.0	.0	.0	.0	.1	.0	.2	.2	.0	.2	.1	.2	.0	.1	.0	.1	.0		13	1.0
	22&>	.0	.0	.0	.1	.1	.0	.1	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0		7	.6
	TOTAL	0	0	0	2	3	2	6	4	3	6	2	4	0	1	2	1	0	2	38	3.0
1<2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2	.2
	4-10	.0	.1	.0	.0	.1	.0	.2	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0		7	.6
	11-21	.0	.0	.2	.1	.4	.0	.2	.0	.1	.1	.1	.3	.1	.0	.0	.1	.0		19	1.5
	22&>	.0	.0	.0	.0	.1	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0		5	.4
	TOTAL	0	1	2	1	7	3	5	1	2	2	2	4	1	0	0	1	0	1	33	2.6
2<5	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2	.2
	4-10	.0	.1	.0	.1	.1	.1	.0	.2	.0	.2	.2	.2	.1	.0	.0	.0	.0		15	1.2
	11-21	.1	.0	.2	.3	.5	.1	.2	.1	.4	.6	.4	.5	.3	.1	.0	.0	.0		47	3.8
	22&>	.0	.2	.2	.2	.2	.1	.2	.2	.0	.1	.3	.1	.0	.0	.0	.0	.0		21	1.7
	TOTAL	1	3	6	8	9	3	4	6	5	12	12	9	5	1	0	0	0	1	85	6.8
5<10	0-3	.1	.0	.0	.1	.1	.0	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.4	15	1.2
	4-10	.1	.0	.2	.0	.6	.1	.3	.3	.6	.5	.8	.4	.6	.2	.0	.2	.0		62	5.0
	11-21	.4	.3	.6	.6	1.0	.5	.3	.2	.5	1.4	2.0	.8	.8	.6	.5	.2	.0		133	10.6
	22&>	.6	.3	.6	.0	.2	.1	.0	.1	.4	.4	.2	.6	.1	.1	.0	.0	.0		48	3.8
	TOTAL	15	8	18	8	23	9	11	7	18	31	40	18	24	11	7	5	0	5	258	20.6
10<6	0-3	.0	.1	.1	.1	.5	.0	.1	.1	.2	.0	.5	.0	.4	.1	.0	.0	.1	1.0	40	3.2
	4-10	1.0	.3	.6	.2	.3	.1	.7	.6	1.1	1.0	1.8	1.5	1.6	.6	.4	1.1	.0		165	13.2
	11-21	1.6	.6	.4	.6	.5	.7	.9	.7	1.1	1.1	4.0	2.7	4.3	2.0	1.0	.7	.0		288	23.0
	22&>	.5	.2	.2	.0	.1	.0	.2	.1	.1	.1	.6	.7	1.0	.4	.0	.2	.0		54	4.3
	TOTAL	38	15	16	12	17	10	24	19	32	28	86	62	92	39	17	26	1	13	547	43.7
TOTAL		58	30	47	37	66	35	68	58	105	130	191	127	137	58	34	35	3	32	1251	100.0
PCT		4.6	2.4	3.8	3.0	5.3	2.8	5.4	4.6	8.4	10.4	15.3	10.2	11.0	4.6	2.7	2.8	.2	2.6	100.0	

JUNE

PERIOD: (PRIMARY) 1949-1968  
(OVER-ALL) 1869-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	6.2	.1	.9	1.6	3.1	2.2	.8	.4	.4	.9	215	12.6	379
06&09	5.2	.2	.9	1.2	2.3	1.5	.9	.1	.2	.6	171	8.5	282
12&15	5.5	.2	.4	1.2	2.7	2.3	.5	.2	.2	.3	175	10.8	316
18&21	6.0	.3	.5	1.2	3.0	1.7	.8	.4	.4	.7	194	10.0	324
TOT	299	10	35	68	144	100	38	13	15	33	755	546	1301
PCT	23.0	.8	2.7	5.2	11.1	7.7	2.9	1.0	1.2	2.5	58.0	42.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	6.5	.4	.8	2.1	6.4	12.7	363
06&09	4.9	.8	.6	1.1	3.7	10.6	273
12&15	5.6	.9	.5	1.8	4.9	10.9	308
18&21	6.2	1.0	.7	1.8	5.6	9.6	311
TOT	291	38	33	85	258	550	1255
PCT	23.2	3.0	2.6	6.8	20.6	43.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ &OR5+	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.0	6.4	7.6	9.4	11.9	363
06&09	.8	5.3	6.6	7.0	8.1	273
12&15	.7	5.5	6.4	7.6	10.6	308
18&21	.7	6.2	7.3	8.1	9.3	311
TOT	40	294	97	403	501	1255
PCT	3.2	23.4	7.7	32.1	39.9	100.0

JUNE

PERIOD: (PRIMARY) 1949-1968  
(OVER-ALL) 1869-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
60/64	.0	.0	.1	.1	.2	.0	.2	.2	8	.6
55/59	.0	.0	.0	.1	.5	.4	.7	.7	30	2.4
50/54	.0	.0	.0	.2	.5	2.1	5.4	8.6	211	16.7
45/49	.0	.0	.0	.3	.8	3.6	9.4	26.3	512	40.4
40/44	.1	.0	.0	.0	.6	1.5	8.1	23.5	429	33.9
35/39	.0	.0	.0	.0	.1	.1	.6	5.2	75	5.9
30/34	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	1	0	1	8	33	97	308	818	1266	100.0
PCT	.1	.0	.1	.6	2.6	7.7	24.3	64.6		

TABLE 14

N	NE	E	SE	S	SW	W	NW	VAR	CALM	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP							
										0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100
.0	.0	.0	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0			
.0	.1	.2	.2	.5	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0			
.2	.2	.6	2.1	5.5	5.1	2.4	.3	.0	.2	.0	.0	.0	.2				
2.5	1.7	3.5	4.8	8.7	9.6	5.8	2.0	.2	1.6	.0	.0	.0	.2				
2.6	3.5	3.6	3.0	5.4	7.3	5.5	2.1	.1	.8	.0	.0	.0	.0				
.9	1.2	.6	.3	.6	.6	.6	.6	.0	.6	.0	.0	.0	.0				
.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
80	85	107	131	263	305	189	63	3	40	.0	.0	.0	.0				
6.3	6.7	8.5	10.3	20.8	24.1	14.9	5.0	.2	3.2	.0	.0	.0	.0				

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR							MEAN	TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN		
00&03	59	56	53	45	39	37	37	45.5	563
06&09	57	55	52	45	38	36	30	44.5	346
12&15	63	57	54	46	40	37	37	46.4	475
18&21	65	63	56	47	40	38	37	47.1	381
TOT	65	59	54	46	39	36	30	45.9	1765

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR							MEAN	TOTAL OBS
	0-29	30-39	60-69	70-79	80-89	90-100			
00&03	.0	.2	.9	2.6	6.6	20.7	91	396	
06&09	.0	.1	.2	.9	3.6	16.2	73	249	
12&15	.1	.2	.8	2.7	6.9	14.8	90	325	
18&21	.0	.3	.8	1.5	7.1	13.0	90	296	
TOT	1	9	34	98	311	828	91	1281	

JUNE

PERIOD: (PRIMARY) 1949-1968  
(OVER-ALL) 1869-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 17

AIR-SEA TMP DIF	PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)									TOT	W FOG	NO FOG
	29	33	37	41	45	49	53	57	61			
	32	36	40	44	48	52	56	60	64			
11/13	.0	.0	.0	.3	.1	.4	.5	.4	.1	23	.4	1.3
9/10	.0	.0	.0	.2	1.0	.8	.4	.1	.1	36	.6	2.0
7/8	.0	.0	.1	.7	2.7	2.5	.9	.1	.0	98	2.4	4.6
6	.0	.0	.1	1.9	3.2	2.1	.6	.0	.1	111	2.5	5.5
5	.0	.0	.3	2.5	3.9	2.4	.3	.0	.0	131	3.3	6.1
4	.0	.0	1.0	3.2	4.2	1.7	.3	.0	.0	145	2.2	8.2
3	.0	.0	1.2	4.2	4.6	2.6	.6	.1	.0	185	4.0	9.3
2	.0	.0	1.4	5.1	5.4	1.2	.5	.0	.0	190	3.7	10.0
1	.0	.0	1.6	4.6	3.6	1.4	.4	.0	.0	161	4.2	7.4
0	.0	.1	1.9	3.7	3.5	1.5	.4	.0	.0	155	3.2	7.9
-1	.0	.0	1.2	1.4	1.7	.4	.1	.0	.0	68	2.3	2.6
-2	.0	.1	.6	1.2	.5	.3	.1	.0	.0	39	.9	1.9
-3	.0	.1	.6	.6	.1	.2	.0	.0	.0	23	.6	1.1
-4	.0	.0	.3	.3	.1	.0	.0	.0	.0	10	.2	.5
-5	.0	.0	.1	.1	.3	.1	.0	.0	.0	9	.3	.3
-6	.0	.0	.1	.0	.1	.0	.0	.0	.0	3	.1	.1
-7/-8	.0	.0	.0	.0	.1	.0	.0	.0	.0	2	.0	.1
-9/-10	.0	.0	.1	.0	.1	.0	.0	.0	.0	2	.1	.1
TOTAL	0	3	149	422	493	244	68	9	3	1391	430	961
PCT	.0	.2	10.7	30.3	35.4	17.5	4.9	.6	.2	100.0	30.9	69.1

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

JUNE  
TABLE 18

AREA 001 ARGENTIA  
45-47N 53-56W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						TOTAL	NE						
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.0	.3	.0	.0	.0	.0	1	.3	.0	.0	.0	.0	.0	1
1-2	.3	.3	.5	.0	.0	.0	4	.0	1.1	.5	.0	.0	.0	6
3-4	.0	1.1	.5	.0	.0	.0	6	.0	.3	.5	.3	.0	.0	4
5-6	.0	.5	.0	.3	.0	.0	3	.0	.3	.8	.8	.0	.0	7
7	.0	.0	.5	.0	.0	.0	2	.0	.0	.3	.0	.0	.0	1
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.3	.0	.0	1	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.3	.0	.0	1	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	.1	.8	.6	.3	.0	.0	18	.1	.6	.8	.4	.0	.0	19
PCT	.3	2.2	1.6	.8	.0	.0	4.9	.3	1.6	2.2	1.1	.0	.0	5.2

HGT	E						TOTAL	SE						
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.0	.5	.0	.0	.0	.0	2	.3	1.1	.0	.0	.0	.0	5
1-2	1.1	.5	.8	.0	.0	.0	9	.5	1.6	.8	.0	.0	.0	11
3-4	.0	1.1	2.2	.0	.0	.0	12	.0	.5	1.6	.0	.0	.0	8
5-6	.0	.3	.5	.8	.5	.0	8	.0	.3	.3	.0	.0	.0	2
7	.0	.0	.3	.3	.0	.0	2	.0	.0	1.1	.0	.0	.0	4
8-9	.0	.0	.0	.3	.0	.0	1	.0	.0	.3	.0	.0	.0	1
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	.0	.0	1
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	.0	.0	1
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	.0	.0	1
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	.4	.9	1.4	.5	.2	.0	3.4	.3	1.3	1.5	.3	.0	.0	3.4
PCT	1.1	2.4	3.8	1.4	.5	.0	9.2	.8	3.5	4.1	.8	.0	.0	9.2

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

JUNE  
TABLE 18

AREA 001 ARGENTIA  
45-47N 53-56W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.3	1.6	.3	.0	.0	.0	8	.0	.8	.0	.0	.0	.0	3	21	
1-2	.8	1.9	1.9	.0	.0	.0	17	.3	3.8	1.6	.0	.0	.0	21	81	
3-4	.0	3.3	6.5	.8	.0	.0	39	.0	4.3	7.3	.3	.0	.0	44	135	
5-6	.0	.5	3.3	.5	.0	.0	16	.0	.5	2.4	1.4	.0	.0	16	66	
7	.0	.3	1.9	.3	.0	.0	9	.0	.3	2.4	.8	.0	.0	13	41	
8-9	.0	.3	.0	.3	.0	.0	2	.0	.0	.3	1.1	.0	.0	5	13	
10-11	.0	.0	.0	.5	.0	.0	2	.0	.0	.0	.3	.3	.0	2	8	
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	1	
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	2	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
TOTAL	4	29	51	9	0	0	93	1	36	52	14	1	0	104	368	
PCT	1.1	7.9	13.9	2.4	.0	.0	25.3	.3	9.8	14.1	3.8	.3	.0	28.3	100.0	

HGT	M							NW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.0	.0	.0	.0	.0	.0	0	.0	.3	.0	.0	.0	.0	1	21	
1-2	.3	1.1	.5	.0	.0	.0	7	.0	1.4	.3	.0	.0	.0	6	81	
3-4	.0	2.7	2.4	.5	.0	.0	21	.0	.0	.3	.0	.0	.0	1	135	
5-6	.0	.0	1.9	1.1	.0	.0	11	.0	.0	.8	.0	.0	.0	3	66	
7	.0	.3	1.4	.3	.0	.0	7	.0	.3	.3	.3	.0	.0	3	41	
8-9	.0	.0	.3	.5	.0	.0	3	.0	.0	.0	.3	.0	.0	1	13	
10-11	.0	.0	.0	.5	.0	.0	2	.0	.0	.0	.0	.0	.0	0	8	
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	1	
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	2	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
TOTAL	1	15	24	11	0	0	51	0	7	6	2	0	0	15	368	
PCT	.3	4.1	6.5	3.0	.0	.0	13.9	.0	1.9	1.6	.5	.0	.0	4.1	100.0	



PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

JUNE

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)							
HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	5.4	4.3	.3	.0	.0	.0	39
1-2	4.6	11.0	6.6	.0	.0	.0	87
3-4	.0	12.5	20.2	1.8	.0	.0	135
5-6	.0	2.3	9.4	4.6	.5	.0	66
7	.0	1.0	7.7	1.8	.0	.0	41
8-9	.0	.3	.8	2.3	.0	.0	13
10-11	.0	.0	.0	1.8	.3	.0	8
12	.0	.0	.0	.3	.0	.0	1
13-16	.0	.0	.0	.5	.0	.0	2
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	39	123	176	51	3	0	392
PCT	9.9	31.4	44.9	13.0	.8	.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)																					
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	10.8	22.7	6.1	2.4	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	172	3
6-7	.0	1.6	6.9	11.6	5.5	1.1	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	107	5
8-9	.0	.8	2.9	4.2	2.9	2.1	.3	.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	5
10-11	.0	.8	.5	.3	1.3	.8	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	6
12-13	.0	.0	.3	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
>13	.0	.0	.0	.3	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	10
INDET	5.0	.3	.3	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	1
TOTAL	26	54	127	86	48	22	9	2	4	1	0	0	0	0	0	0	0	0	0	379	4
PCT	6.9	14.2	33.5	22.7	12.7	5.8	2.4	.5	1.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1949-1967  
(OVER-ALL) 1974-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME	FREQ
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA			
N	.2	.0	.1	.0	.0	.0	.0	5	.0	.3	.0	.0	.0	5	31	.3	
NNE	.1	.2	.1	.0	.0	.0	.0	6	.0	.4	.0	.0	.0	6	27	.4	
NE	.4	.0	.2	.0	.0	.0	.0	9	.0	.6	.1	.0	.0	11	40	.6	
ENE	.2	.0	.1	.0	.0	.0	.0	4	.0	.7	.0	.0	.0	12	42	.2	
E	.3	.1	.0	.0	.0	.0	.0	6	.0	1.5	.0	.0	.0	24	62	.4	
ESE	.4	.0	.2	.0	.0	.0	.0	10	.1	1.0	.1	.0	.0	19	52	.6	
SE	.8	.1	.3	.0	.0	.0	.0	20	.1	2.2	.1	.0	.0	38	83	1.2	
SSE	.4	.0	.2	.0	.0	.0	.0	9	.0	2.2	.1	.0	.0	37	82	.6	
S	.6	.2	.3	.0	.0	.0	.0	18	.1	7.1	.2	.0	.0	119	207	1.1	
SSW	.7	.2	.4	.0	.0	.0	.0	21	.0	4.6	.1	.0	.0	77	191	1.3	
SW	.8	.1	.0	.0	.0	.0	.0	19	.0	7.0	.4	.0	.0	121	296	.9	
WSW	.1	.1	.1	.0	.0	.0	.0	4	.0	5.2	.4	.0	.0	91	194	.2	
W	.1	.0	.2	.0	.0	.0	.0	5	.0	2.8	.1	.0	.0	47	163	.3	
WNW	.1	.0	.1	.0	.0	.0	.0	3	.0	1.0	.0	.0	.0	16	56	.2	
NW	.1	.0	.0	.0	.0	.0	.0	1	.0	.4	.0	.0	.0	7	35	.1	
NNW	.1	.0	.1	.0	.0	.0	.0	4	.0	.1	.0	.0	.0	2	26	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.0	.0	.0	2	2	.0	
CALM	.0	.0	.1	.0	.0	.0	.0	1	.0	.8	.1	.0	.0	14	37	.1	
TOT	89	15	37	0	0	0	0	141	3	620	25	0	0	648	1626		
PCT	5.5	.9	2.3	.0	.0	.0	.0	8.7	.2	38.1	1.5	.0	.0	39.9	100.0	8.7	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME	FREQ
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA			
00&03	1.8	.4	.7	.0	.0	.0	.0	47	.0	11.0	.4	.0	.0	188	514	2.9	
06&09	1.1	.1	.5	.0	.0	.0	.0	27	.1	7.5	.2	.0	.0	128	346	1.6	
12&15	1.3	.2	.4	.0	.0	.0	.0	39	.0	10.2	.4	.0	.0	173	405	2.0	
18&21	1.2	.2	.6	.0	.0	.0	.0	34	.1	9.4	.5	.0	.0	165	377	2.1	
TOT	89	15	37	0	0	0	0	141	3	626	25	0	0	654	1642		
PCT	5.4	.9	2.3	.0	.0	.0	.0	8.6	.2	38.1	1.5	.0	.0	39.8	100.0	8.6	

JULY

PERIOD: (PRIMARY) 1949-1967  
(OVER-ALL) 1874-1967

TABLE 3

AREA 001 ARGENTIA  
45-47N 53-56W

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	WIND SPEED (KNOTS)					WIND SPEED (KNOTS)				
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21		
N	.1	1.1	.8	.1	.0	.0	36	2.0	11.1	1.5	3.1	1.7	1.4	1.9	2.4	2.7	3.4		
NNE	.0	.7	.8	.1	.0	.0	29	1.6	12.2	1.7	.0	.7	2.7	1.9	2.4	2.0	2.3		
NE	.0	1.3	1.0	.3	.0	.0	45	2.5	12.3	2.9	1.0	2.7	2.7	3.3	2.4	1.7	1.1		
E	.1	1.3	.9	.1	.0	.0	42	2.4	10.7	1.7	2.1	2.4	2.7	2.2	2.4	3.3	3.4		
ESE	.5	1.4	1.8	.2	.0	.0	69	3.9	10.9	5.4	6.2	4.4	2.7	2.7	2.4	2.7	2.3		
SE	.2	1.5	1.2	.3	.0	.0	56	3.1	11.4	2.9	2.1	3.1	4.1	2.2	1.2	4.3	6.8		
SSE	.6	2.2	1.6	.4	.0	.1	88	4.9	11.6	4.6	1.0	3.1	1.4	5.7	7.3	7.0	8.0		
S	.4	2.4	2.0	.3	.0	.0	92	5.2	11.5	5.0	2.1	4.8	9.6	6.5	1.2	5.6	3.4		
SSW	.6	5.4	5.7	.7	.1	.0	223	12.5	12.1	11.3	7.2	12.6	16.4	12.5	17.1	15.0	9.1		
SW	.6	3.9	6.1	1.1	.0	.0	207	11.6	13.0	11.1	13.4	10.2	8.2	10.8	14.6	13.6	13.6		
WSW	.5	8.6	8.0	.8	.1	.0	322	18.1	11.6	18.6	22.7	18.8	17.8	21.1	19.5	11.6	15.9		
W	.4	5.8	5.2	.6	.0	.0	214	12.0	11.3	13.8	15.5	10.9	9.6	9.2	8.5	12.3	16.2		
WNW	1.0	3.7	4.6	1.0	.0	.0	182	10.2	11.8	10.6	14.4	12.3	9.6	10.0	13.4	7.6	3.4		
NW	.2	1.3	1.9	.0	.1	.0	62	3.5	11.0	3.3	5.2	4.1	4.1	1.9	2.4	4.7	3.4		
NNW	.3	1.3	.8	.0	.0	.0	42	2.4	9.2	1.9	2.1	2.7	2.7	3.3	2.4	1.7	2.3		
VAR	.3	1.0	.3	.0	.0	.0	28	1.6	7.9	1.5	1.0	2.0	2.7	1.6	.0	1.3	2.3		
CALM	.1	.0	.0	.0	.0	.0	2	.1	2.5	.0	.0	.3	.0	.0	.0	.3	.0		
TOT	2.4	768	759	107	3	1	43	2.4	.0	2.3	1.0	3.1	1.4	3.3	.0	2.7	1.1		
PCT	144	768	759	107	3	1	1782	100.0	11.3	479	97	293	73	369	82	301	88		
	8.1	43.1	42.6	6.0	.2	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	WIND SPEED (KNOTS)					WIND SPEED (KNOTS)				
	0-6	7-16	17-27	28-40					00	03	06	09	12	15	18	21		
N	.7	2.2	.7	.1	.0	65	3.6	11.6	3.1	3.1	2.4	4.1	3.8	4.9	4.7	5.7		
NE	1.2	2.7	.9	.1	.0	87	4.9	11.5	4.6	3.1	5.1	5.5	5.4	4.9	5.0	4.5		
E	1.9	4.0	1.1	.0	.0	125	7.0	11.1	8.4	8.2	7.5	6.8	4.9	3.7	7.0	9.1		
ESE	2.7	5.1	2.1	.1	.1	180	10.1	11.6	9.6	3.1	7.8	11.0	12.2	8.5	12.6	11.4		
S	4.0	14.1	5.7	.3	.0	430	24.1	12.5	22.3	20.6	22.9	24.7	23.3	31.7	28.6	22.7		
SE	6.1	18.7	4.9	.3	.0	536	30.1	11.5	32.4	38.1	29.7	27.4	30.4	28.0	23.9	34.1		
SSW	3.3	7.7	2.5	.2	.0	244	13.7	11.6	14.0	19.6	16.4	13.7	11.9	15.9	12.3	6.8		
S	1.4	2.4	.1	.0	.0	70	3.9	8.7	3.3	3.1	4.8	5.5	4.9	2.4	3.0	4.5		
SSW	.1	.0	.0	.0	.0	2	.1	2.5	.0	.0	.3	.0	.0	.0	.3	.0		
VAR	.1	.0	.0	.0	.0	43	2.4	.0	2.3	1.0	3.1	1.4	3.3	.0	2.7	1.1		
CALM	2.4	768	759	107	3	1	1782	100.0	11.3	479	97	293	73	369	82	301		
TOT	424	1017	322	18	1	1782	100.0	11.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
PCT	23.8	57.1	18.1	1.0	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

JULY

PERIOD: (PRIMARY) 1949-1967  
(OVER-ALL) 1874-1967

TABLE 4

AREA 001 ARGENTIA  
45-47N 53-56W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	2.2	13.7	14.3	1.4	.0	.1	.0	.7	11.1	32.3	576
06&09	1.1	8.6	9.0	1.2	.0	.0	.1	.6	11.4	20.5	366
12&15	1.5	11.7	9.7	1.7	.1	.0	.0	.7	11.1	25.3	451
18&21	.7	9.1	9.7	1.7	.1	.0	.1	.5	12.0	21.8	389
TOT	99	768	759	107	3	1	2	43	11.3		1782
PCT	5.6	43.1	42.6	6.0	.2	.1	.1	2.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD		
N	.2	.5	.6	1.3	32	6.0
NNE	.4	.0	.7	1.0	26	6.2
NE	.2	.1	.6	1.3	27	6.9
ENE	.4	.2	.4	2.1	38	6.7
E	.3	.1	.7	3.5	58	7.1
ESE	.2	.2	.3	2.6	41	7.2
SE	.2	.4	.4	3.4	55	7.1
SSE	.4	.2	1.1	3.6	67	6.9
S	1.0	.5	1.5	8.3	142	7.0
SSW	2.2	1.0	1.5	6.8	145	6.0
SW	3.4	.6	3.1	9.4	208	6.0
WSW	4.0	.8	1.8	5.3	149	5.0
W	4.6	1.0	1.4	4.3	142	4.5
WNW	1.4	.4	.6	1.4	48	4.7
NW	.8	.1	.3	.8	25	4.7
NNW	.5	.1	.2	.6	18	4.9
VAR	.0	.0	.0	.0	0	.0
CALM	.4	.2	.5	1.2	29	5.7
TOT	26.0	8.0	19.9	71.1	1250	6.0
PCT	20.8	6.4	15.9	56.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION														NH <5/8 ANY HGT	TOTAL OBS
000	150	300	600	1000	2000	3500	5000	6500	8000+						
149	299	599	999	1999	3499	4999	6499	7999							
N	.2	.0	.0	.4	.4	.6	.1	.0	.0	.0	.9		32		
NNE	.2	.0	.1	.2	.1	.3	.1	.0	.3	.0	.8		26		
NE	.5	.0	.0	.3	.1	.2	.1	.2	.0	.0	.6		27		
ENE	.5	.0	.5	.2	.4	.6	.0	.0	.0	.0	.9		38		
E	1.4	.1	.1	.5	1.0	.4	.1	.1	.0	.0	1.1		58		
ESE	.8	.0	.3	.4	.3	.3	.2	.1	.1	.0	.8		41		
SE	1.6	.2	.2	.5	.9	.2	.0	.0	.0	.1	.8		55		
SSE	1.8	.1	.5	.1	.6	.5	.3	.0	.0	.1	1.4		67		
S	5.3	.2	.4	.6	1.0	.5	.4	.0	.2	.2	2.6		142		
SSW	4.4	.0	.3	1.0	.7	.3	.2	.0	.0	.1	4.6		145		
SW	6.1	.1	.5	.6	1.4	.6	.2	.2	.2	.6	6.0		208		
WSW	3.6	.2	.4	.3	.6	.5	.2	.1	.0	.3	5.7		149		
W	2.9	.2	.1	.2	.5	.4	.3	.1	.2	.3	6.3		142		
WNW	.8	.0	.2	.1	.2	.4	.3	.1	.2	.3	6.3		48		
NW	.3	.0	.0	.2	.2	.4	.0	.0	.0	.1	2.1		48		
NNW	.2	.0	.0	.1	.2	.2	.0	.0	.0	.2	1.0		25		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6		18		
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		0		
TOT	39.1	12	43	71	109	76	32	9	14	27	466		1250		
PCT	31.3	1.0	3.4	5.7	8.7	6.1	2.6	.7	1.1	2.2	37.3		100.0		

JULY

PERIOD: (PRIMARY) 1949-1967  
(OVER-ALL) 1974-1987

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	>10	>5	>2	>1	>1/2	>1/4	>55YD
= OR >6500	1.4	3.0	3.0	3.0	3.1	3.2	3.3
= OR >5000	1.8	3.7	3.7	3.8	3.8	3.9	4.0
= OR >3500	2.8	6.2	6.2	6.3	6.4	6.5	6.6
= OR >2000	4.9	12.2	12.3	12.4	12.5	12.6	12.7
= OR >1000	7.8	18.8	20.3	20.7	21.1	21.2	21.4
= OR >600	9.3	22.9	25.6	26.0	26.7	26.9	27.1
= OR >300	9.8	24.0	27.5	28.7	29.8	30.3	30.5
= OR >150	9.8	24.0	27.7	29.0	30.1	31.2	31.5
= OR > 0	10.1	24.5	28.6	30.8	33.9	36.4	62.7
TOTAL	126	306	357	385	424	705	783

TOTAL NUMBER OF OBS: 1249

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
18.4	6.4	5.9	3.0	1.8	2.1	4.8	3.9	19.6	34.1	1453

JULY

PERIOD: (PRIMARY) 1949-1967  
(OVER-ALL) 1874-1967

TABLE 8

AREA 001 ARGENTIA  
45-47N 53-56W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.0	.0	-.1	.0	.0	.2	.1	.2	.3	.3	.4	.1	.2	.0	-.0	-.0	.0	.0	23	1.9
	NO PCP	.2	.2	-.3	.4	1.2	.9	1.3	1.7	4.8	3.9	5.1	3.9	2.5	.9	-.3	-.2	.0	.6	346	28.4
	TOTAL	2	2	5	5	14	13	17	24	63	52	67	48	32	11	4	3	0	7	369	30.3
1/2<1	PCP	.0	.0	-.0	-.0	-.0	-.0	.1	.1	.0	-.2	-.1	-.0	-.0	-.0	-.0	-.1	.0	.0	7	.6
	NO PCP	.1	.0	-.1	-.1	-.2	.0	.2	.1	.3	.2	.7	.2	.2	.2	-.1	-.0	.0	.2	33	2.7
	TOTAL	1	0	1	1	2	0	3	2	4	6	9	3	2	2	1	1	0	2	40	3.3
1<2	PCP	.0	.0	-.0	-.1	-.0	-.0	.0	.0	.0	.1	.0	.0	.1	.1	-.0	-.0	.0	.0	4	.3
	NO PCP	.0	.1	-.0	-.2	-.3	.0	.1	.2	.3	.2	.3	.4	.2	.0	-.0	-.0	.0	.1	30	2.5
	TOTAL	0	1	0	4	4	0	1	2	4	3	4	5	4	1	0	0	0	1	34	2.8
2<5	PCP	.2	.1	-.0	-.1	-.2	.2	.2	.2	.2	.2	.2	.0	.1	.0	-.0	-.0	.0	.0	22	1.8
	NO PCP	.1	.0	-.1	.0	-.1	-.2	.1	.2	.7	.7	.3	.8	.0	.1	-.0	-.1	.0	.1	43	3.5
	TOTAL	4	1	1	1	4	4	4	5	10	11	6	10	1	1	0	1	0	1	65	5.3
5<10	PCP	.2	.4	-.2	.0	.2	.4	.3	.2	.2	.2	.2	.1	.1	.1	-.1	-.2	.0	.0	37	3.0
	NO PCP	.7	.7	.7	1.3	1.1	.9	.7	1.5	2.1	2.0	4.6	2.4	2.9	.4	-.6	-.0	.0	.5	278	22.8
	TOTAL	10	13	11	16	15	16	12	21	28	26	58	30	36	6	8	3	0	6	315	25.9
10<6>	PCP	.0	.0	-.0	-.1	-.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	-.0	-.0	.0	.0	4	.3
	NO PCP	.9	.7	-.7	-.8	1.3	.7	1.2	.8	2.4	3.5	4.8	4.2	5.1	2.1	1.1	-.7	.0	1.0	390	32.0
	TOTAL	11	8	9	11	17	8	16	10	30	42	59	51	62	26	13	9	0	12	394	32.4
	TOTAL	28	25	27	38	56	41	53	64	139	140	203	147	137	47	26	17	0	29	1217	100.0
	PCT	2.3	2.1	2.2	3.1	4.6	3.4	4.4	5.3	11.4	11.5	16.7	12.1	11.3	3.9	2.1	1.4	.0	2.4	100.0	

JULY

PERIOD: (PRIMARY) 1949-1967  
(OVER-ALL) 1874-1967

TABLE 9

AREA 001 ARGENTIA  
45-47N 53-56W

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.3	.1	.2	.2	.1	.0	.1	.2	.2	.0	.1	.0	.0	.6	24	1.9
	4-10	.1	.1	.2	.3	.3	.5	.7	.8	1.3	.5	1.5	1.0	.7	.2	.2	.2	.0		108	8.6
	11-21	.1	.1	.2	.1	.5	.4	.4	1.0	3.4	3.4	3.3	2.6	1.6	.7	.1	.0	.0		221	17.7
	226>	.0	.0	.0	.0	.0	.1	.2	.0	.3	.2	.6	.1	.0	.0	.0	.0	.0		18	1.4
	TOTAL	2	2	5	5	14	13	18	24	63	92	68	43	32	11	4	3	0	7	371	29.7
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	2	.2
	4-10	.1	.0	.0	.1	.2	.0	.1	.0	.2	.1	.1	.1	.1	.1	.0	.1	.0		13	1.0
	11-21	.0	.0	.0	.0	.0	.0	.1	.1	.1	.2	.6	.2	.1	.1	.1	.0	.0		19	1.5
	226>	.0	.0	.1	.0	.0	.0	.1	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0		6	.5
	TOTAL	1	0	1	1	2	0	3	2	4	6	9	3	2	2	1	1	0	2	40	3.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
	4-10	.0	.1	.0	.2	.0	.0	.0	.2	.2	.0	.1	.2	.2	.0	.0	.0	.0		12	1.0
	11-21	.0	.0	.0	.1	.3	.0	.1	.0	.1	.2	.2	.2	.2	.1	.0	.0	.0		18	1.4
	226>	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0		3	.2
	TOTAL	0	1	0	4	4	0	1	2	4	3	4	5	4	1	0	0	0	1	34	2.7
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	3	.2
	4-10	.1	.0	.1	.0	.0	.0	.1	.1	.0	.1	.0	.4	.1	.0	.0	.0	.0		11	.9
	11-21	.2	.0	.0	.1	.3	.3	.2	.3	.7	.7	.4	.3	.1	.1	.0	.1	.0		49	3.9
	226>	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0		3	.2
	TOTAL	4	1	1	1	4	4	4	5	10	11	6	10	2	1	0	1	0	1	66	5.3
5<10	0-3	.0	.0	.0	.1	.2	.0	.2	.1	.0	.0	.2	.0	.3	.1	.1	.0	.0	.5	21	1.7
	4-10	.2	.3	.1	.4	.2	.4	.2	.7	.9	.3	1.4	.9	.6	.1	.2	.1	.0		87	7.0
	11-21	.6	.7	.6	.8	.8	.6	.5	.8	1.1	1.5	2.6	1.5	1.6	.3	.3	.2	.0		182	14.6
	226>	.1	.0	.2	.0	.0	.3	.1	.2	.2	.3	.4	.0	.4	.0	.0	.0	.0		27	2.2
	TOTAL	10	13	11	16	15	16	12	22	28	27	58	30	36	6	8	3	0	6	317	25.4
10<1	0-3	.1	.0	.0	.0	.0	.0	.0	.2	.0	.4	.0	.2	.2	.1	.1	.1	.0	1.0	28	2.2
	4-10	.6	.2	.5	.3	.5	.3	.4	.2	.9	1.4	1.8	1.4	1.4	.9	.5	.2	.0		144	11.5
	11-21	.6	.4	.2	.6	1.0	.2	.7	.6	1.7	1.7	3.1	2.2	3.0	1.2	.5	.5	.0		228	18.3
	226>	.0	.1	.0	.0	.0	.1	.2	.0	.0	.2	.0	.5	.6	.0	.0	.0	.0		21	1.7
	TOTAL	15	9	9	11	19	8	17	12	32	46	62	53	66	27	13	10	0	12	421	33.7
TOTAL PCT		32 2.6	26 2.1	27 2.2	36 3.0	58 4.6	41 3.3	55 4.4	67 5.4	141 11.3	145 11.6	207 16.6	149 11.9	142 11.4	48 3.8	26 2.1	18 1.4	0	29 2.3	1249 100.0	100.0

JULY

PERIOD: (PRIMARY) 1949-1967  
(OVER-ALL) 1874-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	9.7	.1	.6	1.5	2.6	1.6	.5	.2	.5	.5	232	12.3	392
06009	6.9	.2	.4	1.2	1.9	1.9	.9	.2	.2	.4	184	9.7	310
12015	7.4	.3	.8	1.4	1.9	.8	.6	.1	.3	.5	182	7.7	282
18021	6.4	.4	1.5	1.3	1.9	1.5	.5	.2	.2	.8	191	10.0	321
TOT PCT	396 30.3	12 .9	43 3.3	71 5.4	109 8.4	76 5.8	32 2.5	9 .7	14 1.1	27 2.1	789 60.5	516 39.5	1305 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	9.5	1.1	.9	1.2	7.1	10.3	377
06009	6.4	.6	.5	1.0	7.2	8.1	299
12015	7.4	.5	1.0	1.0	4.6	7.3	273
18021	6.6	1.0	.4	2.1	6.4	8.2	309
TOT PCT	375 29.8	40 3.2	34 2.7	66 5.2	317 25.2	426 33.9	1258 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ >OR5+	NH <5/8 ANY HGT	TOTAL OBS
00003	2.4	9.7	11.0	7.4	11.6	377
06009	1.1	6.8	7.6	7.1	9.1	299
12015	1.4	7.3	8.5	5.9	7.3	273
18021	1.3	7.2	8.7	6.5	9.4	309
TOT PCT	77 6.1	389 30.9	137 10.9	338 26.9	471 37.4	1258 100.0



JULY

PERIOD: (PRIMARY) 1949-1967  
(OVER-ALL) 1874-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
75/79	.0	.0	.1	.0	.1	.0	.0	.0	2	.2
70/74	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
65/69	.0	.0	.0	.0	.0	.2	.2	.9	16	1.3
60/64	.0	.0	.1	.1	1.1	1.3	3.6	6.2	155	12.3
55/59	.0	.0	.0	.0	.8	2.9	11.2	23.0	480	37.9
50/54	.0	.1	.0	.0	.9	.9	8.5	27.9	484	38.3
45/49	.0	.0	.0	.0	.1	.0	1.0	8.6	123	9.7
40/44	.0	.0	.0	.0	.0	.0	.2	.1	4	.3
TOTAL	0	1	2	1	38	67	313	843	1265	100.0
PCT	.0	.1	.2	.1	3.0	5.3	24.7	66.6		

TABLE 14

	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW				
75/79	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0
70/74	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
65/69	.0	.0	.1	.1	.5	.6	.0	.0	.0	.0	.0	.0
60/64	.4	.5	.4	.9	3.6	4.6	1.3	.2	.0	.3		
55/59	.9	1.9	2.1	4.1	9.6	11.7	5.2	1.6	.0	.9		
50/54	1.3	2.1	3.6	3.2	8.7	11.7	5.5	1.2	.2	.9		
45/49	.7	.8	.9	.9	2.1	2.4	1.3	.6	.0	.2		
40/44	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0		
TOTAL	41	66	89	117	311	396	171	44	2	28		
PCT	3.2	5.2	7.0	9.2	24.6	31.3	13.3	3.5	.2	2.2		

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR									
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS	
00003	66	65	61	54	47	45	43	54.0	578	
06009	65	63	61	54	47	45	45	53.9	365	
12015	70	66	62	54	47	44	40	54.9	451	
18021	78	72	66	58	50	46	45	56.4	388	
TOT	78	65	61	53	46	44	40	54.7	1782	

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR							MEAN	TOTAL OBS
	0-29	30-59	60-69	70-79	80-89	90-100			
00003	.0	.0	.6	1.0	7.7	23.1	93	414	
06009	.0	.1	.4	.2	5.2	15.6	93	273	
12015	.0	.0	.5	2.0	6.1	15.7	92	311	
18021	.0	.2	1.4	2.1	5.9	12.2	89	279	
TOT	0	4	38	68	317	850	92	1277	

JULY

PERIOD: (PRIMARY) 1949-1967  
(OVER-ALL) 1874-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41	45	49	53	57	61	65	69	TOT	W FOG	WD FOG
17/19	.0	.0	.0	.0	.1	.0	.0	.0	1	.1	.0
14/16	.0	.0	.0	.0	.0	.1	.0	.1	4	.0	.3
11/13	.0	.0	.0	.2	.5	.2	.1	.0	15	.5	.5
9/10	.0	.0	.5	.9	.7	.7	.1	.0	42	1.0	1.8
7/8	.0	.2	1.3	2.2	2.4	.9	.7	.0	115	3.6	4.1
6	.1	.2	1.1	1.9	2.0	.8	.0	.0	90	2.2	3.9
5	.0	.1	1.9	3.9	2.2	1.1	.0	.0	137	4.5	4.7
4	.0	.6	3.2	4.8	2.4	.9	.0	.0	177	4.8	7.1
3	.0	.7	2.8	4.8	3.2	.6	.0	.0	180	4.0	8.1
2	.0	1.0	4.2	5.2	3.0	.7	.1	.0	213	5.0	9.4
1	.1	1.1	3.3	4.8	3.2	.3	.1	.0	191	5.2	7.7
0	.0	1.1	2.6	3.0	2.2	.3	.0	.0	136	3.8	5.4
-1	.1	.4	1.5	1.7	.7	.0	.0	.0	66	2.0	2.4
-2	.1	.4	1.1	.7	.7	.1	.0	.0	47	1.3	1.9
-3	.0	.1	1.0	.4	.1	.1	.0	.0	25	.6	1.1
-4	.0	.1	.3	.5	.0	.0	.0	.0	14	.5	.4
-5	.0	.1	.2	.1	.3	.0	.0	.0	12	.2	.6
-6	.1	.4	.1	.1	.0	.0	.0	.0	10	.1	.6
-7/-8	.0	.0	.1	.1	.1	.0	.0	.0	4	.3	.0
-9/-10	.0	.1	.0	.2	.1	.0	.0	.0	5	.1	.2
TOTAL	6	100	375	530	355	101	15	2	1484	594	890
PCT	.4	6.7	25.3	35.7	23.9	6.8	1.0	.1	100.0	40.0	60.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

JULY  
TABLE 10

AREA 001 ARGENTIA  
45-47N 53-56W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	.0	.3	.0	.0	.0	.0	1	.0	.3	.0	.0	.0	.0	1
1-2	.0	.0	.0	.0	.0	.0	0	.0	1.0	.3	.0	.0	.0	4
3-4	.0	.3	.7	.0	.0	.0	3	.0	.7	1.3	.0	.0	.0	6
5-6	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.0	.0	.0	1
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.0	.0	.0	2
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	.0	.2	.7	.0	.0	.0	4	.0	.6	.7	.1	.0	.0	14
PCT	.0	.7	.7	.0	.0	.0	1.3	.0	2.0	2.3	.3	.0	.0	4.6

HGT	E							SE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	.3	.0	.3	.0	.0	.0	2	.3	.3	.0	.0	.0	.0	2
1-2	.0	.7	.3	.3	.0	.0	4	.7	1.0	.3	.0	.0	.0	6
3-4	.0	1.0	.7	.3	.0	.0	6	.0	1.0	1.6	.0	.0	.0	8
5-6	.0	.0	.3	.7	.0	.0	3	.0	.3	.7	.3	.0	.0	4
7	.0	.0	.7	.0	.0	.0	2	.0	.0	1.0	.0	.0	.0	3
8-9	.0	.0	.0	.3	.0	.0	1	.0	.0	.0	1.0	.0	.0	3
10-11	.0	.0	.0	.0	.0	.0	0	.0	.3	.0	.0	.0	.0	1
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	5	7	5	0	0	18	3	9	11	4	0	0	27
PCT	.3	1.6	2.3	1.6	.0	.0	5.9	1.0	3.0	3.6	1.3	.0	.0	8.9

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

JULY  
TABLE 18

AREA 001 ARGENTIA  
45-47N 53-56W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						TOTAL	SW						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.3	1.3	.0	.0	.0	.0	5	.3	1.0	.7	.0	.0	.0	6
1-2	.0	2.0	2.0	.0	.0	.0	12	.0	4.9	2.3	.0	.0	.0	22
3-4	.0	2.6	6.9	.0	.0	.0	29	.3	8.6	10.5	.0	.0	.0	59
5-6	.0	1.3	3.0	.3	.0	.0	14	.0	1.0	5.3	1.0	.0	.0	22
7	.0	.0	2.3	1.3	.0	.0	11	.0	1.0	3.0	.3	.0	.0	13
8-9	.0	.0	1.0	.0	.0	.0	3	.0	.0	.3	.0	.0	.0	1
10-11	.0	.0	.0	1.3	.0	.0	4	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	.0	.0	1
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	22	46	9	0	0	78	2	50	67	5	0	0	124
PCT	.3	7.2	15.1	3.0	.0	.0	25.7	.7	16.4	22.0	1.6	.0	.0	40.8

HGT	W						TOTAL	NW						TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+		
<1	.3	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0	18
1-2	.0	.7	.3	.0	.0	.0	3	.0	.7	.3	.0	.0	.0	3	54
3-4	.0	2.3	1.6	.3	.0	.0	13	.0	.0	.3	.0	.0	.0	1	125
5-6	.0	1.3	3.9	.0	.0	.0	16	.0	.0	.0	.0	.0	.0	0	60
7	.0	.0	.7	.0	.0	.0	2	.0	.0	.0	.0	.0	.0	0	33
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	8
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	5
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	1
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	1	13	20	1	0	0	35	0	2	2	0	0	0	4	304
PCT	.3	4.3	6.6	.3	.0	.0	11.5	.0	.7	.7	.0	.0	.0	1.3	100.0

JULY

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	4.2	3.2	1.0	.0	.0	.0	26
1-2	1.0	10.5	5.8	.3	.0	.0	55
3-4	.3	16.0	23.0	.6	.0	.0	125
5-6	.0	3.8	13.1	2.2	.0	.0	60
7	.0	1.0	7.7	1.9	.0	.0	33
8-9	.0	.0	1.3	1.3	.0	.0	8
10-11	.0	.3	.0	1.3	.0	.0	5
12	.0	.0	.0	.3	.0	.0	1
13-16	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	17	109	162	25	0	0	313
PCT	5.4	34.8	51.8	8.0	.0	.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.2	8.9	21.2	8.6	2.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	141	3
6-7	.0	1.5	11.0	10.1	8.3	1.8	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	111	5
8-9	.0	.3	1.2	3.7	2.8	.6	.9	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	6
10-11	.0	.0	.0	.6	2.5	.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	7
12-13	.0	.3	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	3
>13	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	4.6	1.2	.0	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	1
TOTAL	19	40	111	79	54	12	9	1	1	0	0	0	0	0	0	0	0	0	0	0	326	4
PCT	5.8	12.3	34.0	24.2	16.6	3.7	2.8	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1949-1967  
(OVER-ALL) 1870-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
N	.1	.1	.1	.0	.0	.0	.0	4	.1	.2	.0	.1	5	50	.2	
NNE	.2	.0	.1	.0	.0	.0	.0	5	.0	.3	.0	.0	5	34	.3	
NE	.2	.0	.2	.0	.0	.0	.0	8	.0	.3	.0	.0	6	43	.5	
ENE	.3	.1	.1	.0	.0	.0	.0	9	.0	.5	.1	.0	9	49	.5	
E	.5	.1	.4	.0	.0	.0	.0	16	.0	1.2	.0	.0	20	74	.9	
ESE	.6	.1	.3	.0	.0	.0	.0	18	.1	.5	.0	.0	9	51	1.0	
SE	.5	.0	.1	.0	.0	.0	.0	10	.0	1.4	.2	.0	28	79	.6	
SSE	.4	.2	.2	.0	.0	.0	.0	13	.0	1.1	.1	.0	21	88	.7	
S	1.0	.0	.4	.0	.0	.0	.0	24	.0	3.3	.2	.1	61	175	1.4	
SSW	.5	.1	.3	.0	.0	.0	.0	15	.1	3.6	.5	.0	72	196	.9	
SW	.3	.1	.1	.0	.0	.0	.0	8	.0	4.8	.3	.1	90	243	.5	
WSW	.2	.1	.2	.0	.0	.0	.0	8	.0	4.1	.7	.0	84	237	.5	
W	.2	.0	.1	.0	.0	.0	.0	6	.0	2.5	.2	.0	47	238	.3	
WNW	.0	.0	.1	.0	.0	.0	.0	1	.0	.3	.0	.0	6	68	.1	
NW	.1	.1	.2	.0	.0	.0	.1	6	.0	.3	.0	.0	6	53	.3	
NNW	.0	.0	.1	.0	.0	.0	.0	1	.0	.2	.0	.0	4	35	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.0	.0	1	2	.0	
CALM	.0	.0	.1	.0	.0	.0	.0	1	.0	.5	.1	.0	10	22	.1	
TOT	.89	.13	.50	.0	.0	.0	.1	153	.4	43.6	4.1	.3	484	1737		
PCT	5.1	.7	2.9	.0	.0	.0	.1	8.8	.2	25.1	2.4	.2	27.9	100.0	8.8	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
00&03	1.8	.3	.9	.0	.0	.0	.1	53	.1	6.5	.6	.1	127	509	3.0	
06&09	1.3	.1	.9	.0	.0	.0	.0	40	.0	5.4	.2	.1	99	379	2.3	
12&15	.8	.1	.3	.0	.0	.0	.0	22	.1	6.6	.9	.0	132	440	1.3	
18&21	1.2	.2	.7	.0	.0	.0	.0	38	.1	6.6	.6	.1	128	423	2.2	
TOT	.89	.13	.50	.0	.0	.0	.1	153	.4	43.6	4.1	.3	486	1751		
PCT	5.1	.7	2.9	.0	.0	.0	.1	8.7	.2	25.0	2.3	.2	27.8	100.0	8.7	

AUGUST

PERIOD: (PRIMARY) 1949-1967  
(OVER-ALL) 1870-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.5	1.1	1.0	.3	.1	.0	58	3.0	11.3	2.4	2.0	4.7	1.8	3.3	1.2	2.9	1.1
NNE	.0	.8	1.1	.2	.0	.0	40	2.0	12.9	2.6	1.0	1.8	3.6	1.8	3.6	1.4	2.2
NE	.3	.9	1.2	.3	.0	.0	54	2.7	12.2	3.7	2.0	2.3	.0	2.4	3.6	2.6	3.3
ENE	.2	1.0	1.3	.3	.0	.0	54	2.7	12.0	2.8	2.0	2.9	1.8	3.3	1.2	2.9	1.1
E	.5	2.1	1.6	.3	.0	.0	86	4.4	10.4	5.1	4.0	4.1	.0	4.2	4.8	4.9	3.3
ESE	.2	1.3	1.3	.2	.0	.0	57	2.9	11.3	2.8	5.1	2.9	1.8	1.8	3.6	3.4	4.4
SE	.2	2.2	1.8	.3	.0	.0	89	4.5	11.3	4.5	2.0	4.4	3.6	4.4	6.0	4.6	7.7
SSE	.3	2.0	2.5	.1	.1	.0	99	5.0	12.3	5.9	3.0	6.2	3.6	4.0	1.2	6.3	3.3
S	.7	4.2	4.2	.5	.0	.1	188	9.6	11.7	9.1	12.1	10.6	12.7	9.1	15.5	7.7	7.7
SSW	.5	4.2	5.1	.9	.0	.0	212	10.8	12.9	9.1	16.2	10.3	20.0	10.6	10.7	9.1	17.6
SW	.7	5.4	6.5	1.3	.1	.1	274	14.0	13.0	14.0	8.1	14.4	10.9	13.5	15.5	16.3	12.1
WSW	.5	5.1	6.3	1.3	.0	.0	258	13.1	12.8	11.6	16.2	10.3	5.5	15.5	9.5	15.4	16.5
W	.3	4.7	7.3	.8	.0	.0	257	13.1	12.9	13.4	13.1	15.8	12.7	11.3	13.1	12.9	11.0
WNW	.3	1.9	2.0	.3	.0	.0	88	4.5	12.3	4.9	6.1	2.9	10.9	4.6	4.8	4.0	3.3
NW	.1	1.5	1.5	.2	.0	.1	65	3.3	13.1	3.5	4.0	2.6	7.3	3.8	1.2	2.9	3.3
NNW	.3	1.1	.7	.3	.1	.0	47	2.4	13.0	2.0	2.0	2.3	1.8	3.1	4.8	2.0	1.1
VAR	.1	.0	.0	.0	.0	.0	2	.1	2.0	.0	.0	.3	.0	.2	.0	.0	.0
CALM	1.8						36	1.8	.0	2.4	1.0	1.2	1.8	3.1	.0	.9	1.1
TOT	144	779	890	142	6	3	1964	100.0	12.2	492	99	341	55	452	84	350	91
PCT	7.3	39.7	45.3	7.2	.3	.2	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40					00	03	06	09	12	15	18	21
N	1.4	2.4	1.0	.2	.0	98	5.0	11.0	5.1	3.0	6.5	5.5	5.1	4.8	4.3	3.3
NE	1.5	2.5	1.3	.2	.0	108	5.5	12.1	6.5	4.0	5.3	1.8	5.8	4.8	5.4	4.4
E	2.1	4.1	1.0	.1	.0	143	7.3	10.7	7.9	9.1	7.0	1.8	6.0	8.3	8.3	7.7
SE	2.0	6.0	1.5	.1	.1	188	9.6	11.8	10.4	5.1	10.6	7.3	8.4	7.1	10.9	11.0
S	3.6	12.2	4.3	.3	.1	400	20.4	12.3	18.3	28.3	20.8	32.7	19.7	26.2	16.9	25.3
SW	4.5	15.7	6.1	.7	.1	532	27.1	12.9	25.6	24.2	24.6	16.4	29.0	25.0	31.7	28.6
W	3.3	9.9	4.2	.2	.0	345	17.6	12.7	18.3	19.2	18.8	23.6	15.9	17.9	16.9	14.3
NW	.9	3.5	1.0	.3	.1	112	5.7	13.1	5.5	6.1	5.0	9.1	6.9	6.0	4.9	4.4
VAR	.1	.0	.0	.0	.0	2	.1	2.0	.0	.0	.3	.0	.2	.0	.0	.0
CALM	1.8					36	1.8	.0	2.4	1.0	1.2	1.8	3.1	.0	.9	1.1
TOT	417	1105	399	39	4	1964	100.0	12.2	492	99	341	55	452	84	350	91
PCT	21.2	56.3	20.3	2.0	.2	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1949-1967  
(OVER-ALL) 1870-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	1.7	11.9	14.1	1.6	.1	.0	.0	.7	11.8	30.1	591
06&09	.7	8.1	9.4	1.6	.1	.0	.1	.3	12.2	20.2	396
12&15	2.3	11.2	11.0	1.8	.1	.1	.1	.7	11.5	27.3	536
18&21	.7	8.5	10.7	2.2	.1	.1	.0	.2	13.5	22.5	441
TOT	106	779	890	142	6	3	2	36	12.2		1964
PCT	5.4	39.7	45.3	7.2	.3	.2	.1	1.8		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION					MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBS	TOTAL OBS	
N	.7	.4	.6	1.2	42	5.3
NNE	.1	.3	.3	1.4	32	6.9
NE	.3	.2	.7	1.4	38	6.6
ENE	.9	.1	.3	1.4	40	5.6
E	.3	.1	.7	2.7	56	7.1
ESE	.3	.0	.6	2.0	43	7.0
SE	.5	.4	.5	2.9	65	6.6
SSE	.7	.9	1.0	3.1	73	6.5
S	1.4	.6	1.7	6.2	145	6.4
SSW	2.1	.8	2.7	5.3	158	5.9
SW	3.3	1.6	2.5	6.3	202	5.4
WSW	3.7	1.2	3.1	5.3	195	5.2
W	5.9	2.5	2.3	3.6	209	3.9
WNW	2.1	.6	.8	.9	64	3.6
NW	1.0	.3	.7	1.0	43	4.6
NNW	.8	.3	.5	.8	34	5.0
VAP	.1	.1	.0	.0	2	2.0
CALM	.1	.3	.4	.6	22	5.9
TOT	355	149	287	672	1463	5.5
PCT	24.3	10.2	19.6	45.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION												NH <5/8 ANY HGT	TOTAL OBS
000	150	300	600	1000	2000	3500	5000	6500	8000+				
149	299	599	999	1999	3499	4999	6499	7999					
.1	.0	.1	.3	.8	.3	.0	.0	.0	.0	.0	.0	1.4	42
.1	.0	.1	.3	.5	.3	.2	.0	.1	.1	.1	.1	.5	32
.4	.0	.0	.2	.7	.4	.1	.0	.0	.1	.1	.1	.8	38
.3	.1	.1	.3	.3	.3	.1	.0	.0	.2	.1	.1	1.0	40
.9	.1	.1	.5	.8	.4	.1	.0	.0	.3	.1	.1	.7	56
.5	.0	.1	.2	.5	.5	.1	.1	.1	.0	.1	.1	.8	43
1.0	.0	.0	.3	.8	.6	.1	.0	.1	.1	.1	.1	1.4	65
1.1	.0	.3	.3	.8	.5	.3	.0	.0	.1	.1	.1	1.6	73
2.9	.1	.2	1.0	1.0	.7	.3	.1	.2	.2	.2	.2	3.3	145
2.4	.1	.5	.6	1.0	.5	.2	.1	.1	.1	.1	.1	4.7	158
3.4	.3	.2	.4	1.4	.3	.3	.0	.1	.3	.1	.1	7.0	202
3.3	.1	.1	1.0	1.1	.4	.3	.0	.1	.3	.1	.1	6.7	195
1.8	.0	.2	.7	1.0	.6	.1	.1	.1	.3	.1	.1	9.4	209
.2	.1	.0	.1	.3	.1	.0	.1	.1	.0	.1	.1	3.5	64
.1	.0	.0	.3	.2	.3	.1	.1	.0	.1	.1	.1	1.7	43
.3	.0	.0	.1	.1	.1	.1	.1	.0	.1	.1	.1	1.4	34
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2
.3	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.8	22
282	11	33	100	164	94	34	8	12	41	684		1463	
19.3	.8	2.3	6.8	11.2	6.4	2.3	.5	.8	2.8	46.8		100.0	



AUGUST

PERIOD: (PRIMARY) 1949-1967  
(OVER-ALL) 1870-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	2.3	3.2	3.5	3.5	3.5	3.5	3.5
= OR >5000	2.7	3.8	4.0	4.1	4.1	4.1	4.1
= OR >3500	4.3	6.1	6.3	6.4	6.4	6.4	6.4
= OR >2000	7.1	11.8	12.4	12.6	12.7	12.8	12.9
= OR >1000	11.6	21.2	23.1	23.7	23.9	24.2	24.2
= OR >600	14.1	25.8	29.1	29.8	30.4	31.1	31.1
= OR >300	14.7	26.9	30.8	31.7	32.5	33.3	33.3
= OR >150	14.7	27.1	31.2	32.3	33.1	34.0	34.1
= OR > 0	14.7	27.7	32.2	34.1	36.2	50.3	53.1
TOTAL	213	401	467	494	525	729	770

TOTAL NUMBER OF OBS: 1449

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
19.2	9.5	9.0	4.5	3.4	3.4	4.9	5.6	21.4	19.1	1626

PERIOD: (PRIMARY) 1949-1967  
(OVER-ALL) 1870-1967

AUGUST

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSRV (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.0	.1	.1	.0	.0	.1	.1	.1	.2	.2	.1	.1	.1	.1	.0	.0	.0	.1	19	1.3
	NO PCP	.1	.1	.3	.4	.7	.4	.8	1.0	2.3	2.0	3.2	2.8	1.6	.1	.1	.3	.1	.4	237	16.7
	TOTAL	1	3	5	6	10	7	12	16	36	31	47	41	24	3	2	4	1	7	256	18.1
1/2<1	PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	.1	.1	.0	.0	.1	.0	.0	.0	9	.6
	NO PCP	.0	.0	.0	.0	.1	.0	.1	.1	.3	.5	.2	.4	.1	.0	.1	.0	.0	.0	24	1.7
	TOTAL	0	0	0	0	3	2	1	1	4	9	4	6	1	0	2	0	0	0	33	2.3
1<2	PCP	.0	.1	.1	.0	.2	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.1	.0	.0	9	.6
	NO PCP	.0	.0	.1	.0	.1	.0	.1	.0	.1	.1	.4	.6	.1	.0	.0	.0	.0	.1	23	1.6
	TOTAL	0	1	2	0	4	0	1	0	3	2	7	9	1	0	0	1	0	1	32	2.3
2<5	PCP	.1	.1	.1	.1	.1	.2	.1	.2	.1	.3	.0	.0	.1	.0	.1	.0	.0	.0	23	1.6
	NO PCP	.0	.1	.1	.0	.3	.1	.1	.3	.4	.7	.8	.6	.4	.1	.1	.0	.0	.2	60	4.2
	TOTAL	1	2	3	2	5	5	4	7	6	14	11	8	7	2	3	0	0	3	83	5.9
5<10	PCP	.1	.0	.2	.2	.2	.4	.4	.4	.8	.2	.1	.2	.2	.0	.1	.0	.0	.0	49	3.5
	NO PCP	.6	.3	.6	.6	1.0	.8	1.1	.7	2.3	2.4	3.0	3.7	2.5	1.0	.4	.5	.0	.1	304	21.4
	TOTAL	10	4	11	11	17	17	21	15	44	37	43	55	38	14	7	7	0	2	353	24.9
10<>	PCP	.1	.1	.0	.0	.1	.1	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	9	.6
	NO PCP	1.8	1.4	1.1	1.4	1.1	.7	1.6	2.3	3.3	4.3	5.8	5.2	9.4	2.8	1.8	1.3	.1	.5	652	46.0
	TOTAL	26	22	15	20	17	12	23	33	48	62	82	75	133	40	26	19	1	7	661	46.6
TOTAL	38	32	36	39	56	43	62	72	141	155	194	194	204	59	40	31	2	20	1418	100.0	
PCT	2.7	2.3	2.5	2.8	3.9	3.0	4.4	5.1	9.9	10.9	13.7	13.7	14.4	4.2	2.8	2.2	.1	1.4	100.0		

PERIOD: (PRIMARY) 1949-1967  
(OVER-ALL) 1870-1967

AUGUST

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.1	.0	.0	.1	.0	.1	.0	.0	.1	.1	.1	.1	.1	.0	.0	.1	.1	.5	19	1.3
	4-10	.0	.1	.2	.1	.3	.1	.3	.2	1.2	.6	.9	1.3	.8	.2	.1	.1	.0		95	6.6
	11-21	.0	.1	.1	.2	.3	.3	.6	.9	1.0	1.2	2.0	1.3	.8	.0	.1	.1	.0		132	9.1
	22<>	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.3	.1	.0	.0	.0	.0	.0		11	.8
	TOTAL	1	3	5	6	10	7	12	16	36	31	48	41	24	3	2	4	1	7	257	17.7
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.1	.1	.0	.0	.1	.2	.1	.3	.0	.0	.0	.0	.0		13	.9
	11-21	.0	.0	.0	.0	.1	.1	.1	.1	.1	.3	.1	.1	.1	.0	.1	.0	.0		19	1.3
	22<>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0		1	.1
	TOTAL	0	0	0	0	3	2	1	1	4	9	4	6	1	0	2	0	0	0	33	2.3
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0		2	.1
	11-21	.0	.1	.0	.0	.2	.0	.1	.0	.2	.1	.3	.6	.1	.0	.0	.1	.0		24	1.7
	22<>	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0		4	.3
	TOTAL	0	1	2	0	4	0	1	0	3	2	7	9	1	0	0	1	0	1	32	2.2
2<5	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	6	.4
	4-10	.0	.0	.1	.0	.2	.0	.1	.1	.1	.1	.2	.1	.1	.1	.0	.1	.0		18	1.2
	11-21	.1	.1	.0	.1	.0	.2	.1	.3	.3	.8	.5	.4	.3	.0	.2	.0	.0		49	3.4
	22<>	.0	.0	.1	.0	.1	.1	.0	.1	.1	.1	.1	.0	.0	.1	.0	.0	.0		11	.8
	TOTAL	1	2	3	2	5	5	4	7	6	14	11	8	7	2	3	1	0	3	84	5.8
5<10	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.1	.2	.1	.0	.0	.0	.0	.0	11	.8
	4-10	.1	.1	.1	.2	.1	.3	.6	.2	.8	.7	.5	.6	.3	.2	.2	.1	.0		75	5.2
	11-21	.5	.1	.6	.4	1.0	.8	.8	.8	1.9	1.5	1.9	2.6	2.1	.6	.2	.3	.0		235	16.2
	22<>	.1	.0	.0	.1	.1	.1	.0	.0	.2	.3	.5	.4	.2	.1	.1	.1	.0		33	2.3
	TOTAL	10	4	11	11	17	17	21	15	44	37	44	55	38	14	7	7	0	2	354	24.4
10<>	0-3	.3	.0	.1	.1	.1	.0	.0	.2	.4	.2	.1	.1	.0	.1	.1	.1	.1	.6	37	2.6
	4-10	.7	.4	.4	.6	.8	.3	.6	.7	.6	1.5	1.6	1.4	2.2	1.0	.8	.5	.0		202	13.9
	11-21	.8	1.0	.6	.7	.2	.6	1.0	1.4	2.3	2.5	3.6	2.9	6.6	1.9	.9	.6	.0		396	27.3
	22<>	.3	.1	.1	.1	.1	.0	.1	.1	.2	.1	.6	.8	.5	.1	.1	.3	.0		54	3.7
	TOTAL	29	22	17	21	17	12	24	34	51	63	85	76	134	46	27	21	1	9	689	47.6
TOTAL PCT	41	32	38	40	56	43	63	73	144	156	199	195	205	65	41	34	2	22	1449	100.0	
		2.8	2.2	2.6	2.8	3.9	3.0	4.3	5.0	9.9	10.8	13.7	13.5	14.1	4.5	2.8	2.3	.1	1.5	100.0	

AUGUST

PERIOD: (PRIMARY) 1949-1967  
(OVER-ALL) 1870-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	4.9	.1	.6	1.6	2.9	1.9	.3	.1	.3	.7	204	13.5	409
06&09	4.2	.2	.5	1.4	2.5	1.4	.7	.2	.0	.4	175	9.8	324
12&15	4.4	.2	.7	2.0	3.0	1.2	.7	.1	.3	.8	204	11.7	382
18&21	5.1	.3	.4	1.5	2.5	1.7	.6	.1	.2	.9	200	13.7	409
TOT PCT	283 18.6	11 .7	33 2.2	100 6.6	165 10.8	96 6.3	34 2.2	8 .5	12 .8	41 2.7	783 51.4	741 48.6	1524 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	4.8	.4	.5	1.7	7.8	11.3	387
06&09	3.8	.4	.5	.9	5.0	11.0	315
12&15	4.5	.6	.8	1.2	5.4	12.5	363
18&21	4.5	.8	.5	2.0	6.1	13.0	392
TOT PCT	258 17.7	33 2.3	32 2.2	84 5.8	354 24.3	696 47.8	1457 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND  
CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ &OR5+	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.1	4.8	6.0	7.8	12.8	387
06&09	.8	3.9	4.8	7.1	9.7	315
12&15	.3	4.2	5.4	8.4	11.1	363
18&21	.7	4.8	6.2	7.3	13.3	392
TOT PCT	41 2.8	258 17.7	109 7.5	448 30.7	683 46.9	1457 100.0

AUGUST

PERIOD: (PRIMARY) 1949-1967  
(OVER-ALL) 1870-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.1	.1	.2	.4	11	.8
65/69	.0	.0	.1	.0	.7	1.3	2.4	4.7	124	9.1
60/64	.0	.0	.1	.1	1.7	3.2	12.4	21.0	523	38.5
55/59	.0	.0	.0	.1	1.1	3.6	13.5	25.2	590	43.4
50/54	.0	.0	.0	.1	.1	.5	2.7	4.6	110	8.1
45/49	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	2	3	51	117	425	761	1359	100.0
PCT	.0	.0	.1	.2	3.8	8.6	31.3	56.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.1	.0	.0	.1	.5	.1	.0	.0	.0
65/69	.1	.1	.5	1.0	2.5	3.5	1.3	.1	.0	.0
60/64	.8	1.0	2.1	4.3	9.3	12.0	6.2	2.1	.1	.5
55/59	2.4	2.6	3.0	4.1	6.8	11.5	9.7	2.4	.1	.7
50/54	1.2	1.3	1.3	.1	1.0	1.1	1.1	.7	.0	.3
45/49	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	63	68	95	130	269	388	250	73	2	21
PCT	4.6	5.0	7.0	9.6	19.8	28.6	18.4	5.4	.1	1.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	73	69	66	59	53	50	49	59.1	591
06&09	69	67	64	58	52	50	50	58.8	393
12&15	76	69	66	59	53	50	47	59.4	530
18&21	76	75	70	61	54	51	51	60.8	443
TOT	76	71	67	59	52	49	47	59.5	1957

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.9	2.3	7.2	18.7	91	397
06&09	.0	.0	.7	1.2	6.3	13.5	91	296
12&15	.0	.1	1.0	2.3	8.8	12.3	89	336
18&21	.0	.3	1.2	2.8	9.3	11.3	88	341
TOT	0	5	52	117	432	764	90	1370

PERIOD: (PRIMARY) 1949-1967  
(OVER-ALL) 1870-1967

AUGUST

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FDG	WD FDG
17/19	.0	.0	.0	.0	.0	.1	.1	3	.0	.2
14/16	.0	.0	.1	.1	.1	.0	.1	5	.1	.2
11/13	.0	.1	.1	.3	.0	.1	.2	13	.3	.5
9/10	.0	.0	.5	.8	.6	.2	.0	32	.4	1.6
7/8	.1	.2	1.4	1.8	.9	.0	.0	71	.8	3.7
6	.1	.4	1.4	1.2	.8	.1	.0	65	1.2	2.9
5	.0	.2	2.9	1.9	1.1	.1	.0	99	2.2	4.0
4	.1	.8	4.1	2.7	.8	.1	.0	137	2.4	6.2
3	.1	1.9	5.8	4.0	1.0	.3	.0	206	3.8	9.1
2	.1	1.5	6.4	4.4	.8	.0	.0	210	3.4	9.8
1	.3	2.1	7.1	3.2	.3	.1	.0	207	3.3	9.7
0	.3	3.1	7.0	2.8	.3	.0	.0	183	3.0	8.5
-1	.2	2.6	3.0	1.9	.1	.0	.0	123	1.5	6.2
-2	.3	1.5	3.0	.6	.1	.0	.0	87	.8	4.7
-3	.3	1.1	1.8	.4	.0	.0	.0	58	.6	3.0
-4	.3	1.3	1.0	.2	.1	.0	.0	46	.6	2.3
-5	.2	.5	.3	.2	.1	.0	.0	20	.1	1.2
-6	.2	.3	.1	.0	.0	.0	.0	10	.1	.5
-7/-8	.2	.1	.2	.0	.1	.0	.0	9	.2	.4
-9/-10	.1	.1	.3	.0	.0	.0	.0	6	.0	.4
-11/-13	.0	.1	.1	.0	.0	.0	.0	2	.0	.1
TOTAL	45	283	709	419	114	16	6	1592	393	1199
PCT	2.8	17.8	44.5	26.3	7.2	1.0	.4	100.0	24.7	75.3

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

AUGUST  
TABLE 18

AREA 001 ARGENTIA  
45-47N 53-56W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						TOTAL	NE						
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.2	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0
1-2	.0	.5	.0	.0	.0	.0	2	.0	.7	.2	.0	.0	.0	4
3-4	.0	.2	.5	.0	.0	.0	3	.0	.5	.5	.2	.0	.0	5
5-6	.0	.2	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0
7	.0	.0	.7	.0	.0	.0	3	.0	.0	.2	.0	.0	.0	1
8-9	.0	.0	.0	.0	.2	.0	1	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.2	.0	.0	1
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	4	5	0	1	0	11	0	5	4	2	0	0	11
PCT	.2	1.0	1.2	.0	.2	.0	2.7	.0	1.2	1.0	.5	.0	.0	2.7

HGT	E						TOTAL	SE						
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.0	.5	.0	.0	.0	.0	2	.7	.7	.0	.0	.0	.0	6
1-2	.2	.7	.5	.0	.0	.0	6	.0	2.0	1.5	.0	.0	.0	14
3-4	.2	1.0	1.2	.2	.0	.0	11	.2	1.0	2.5	.7	.0	.0	18
5-6	.0	.0	.2	.2	.0	.0	2	.0	.0	.5	.0	.0	.0	2
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.5	.0	.0	.0	2
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.2	.0	.0	1	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	2	9	8	3	0	0	22	4	15	20	3	0	0	42
PCT	.5	2.2	2.0	.7	.0	.0	5.4	1.0	3.7	4.9	.7	.0	.0	10.4

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

AUGUST  
TABLE 18

AREA 001 ARGENTIA  
45-47N 53-56W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	
<1	.2	1.0	.0	.0	.0	.0	5	.0	.5	.2	.0	.0	.0	3	21
1-2	.2	3.7	.5	.0	.0	.0	18	.2	3.5	2.0	.2	.0	.0	2	87
3-4	.0	3.7	4.2	.2	.0	.0	33	.0	4.7	4.7	.5	.0	.0	9	147
5-6	.0	.2	1.7	.2	.0	.0	9	.0	1.0	5.9	.7	.2	.0	4	78
7	.0	.0	1.7	.0	.0	.0	7	.0	.0	3.2	1.0	.0	.0	3	44
8-9	.0	.0	.0	.2	.0	.0	1	.2	.0	.7	.2	.0	.0	1	14
10-11	.0	.0	.2	.2	.0	.0	2	.0	.0	.2	.0	.0	.0	1	8
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.2	.0	.0	0	5
13-16	.0	.0	.0	.2	.0	.0	1	.0	.0	.0	.0	.0	.0	0	1
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	2	35	34	5	0	0	76	2	39	70	12	1	0	124	405
PCT	.5	8.6	8.4	1.2	.0	.0	18.8	.5	9.6	17.3	3.0	.2	.0	30.6	100.0

HGT	W							NW							GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	
<1	.0	.7	.0	.0	.0	.0	3	.2	.0	.0	.0	.0	.0	1	21
1-2	.0	3.0	1.2	.0	.0	.0	17	.0	.5	.0	.0	.0	.0	2	87
3-4	.0	1.5	5.2	.2	.0	.0	28	.0	1.5	.7	.0	.0	.0	9	147
5-6	.0	1.2	5.7	.0	.0	.0	28	.0	.5	.5	.0	.0	.0	4	78
7	.0	.0	2.5	.2	.0	.0	11	.0	.2	.5	.0	.0	.0	3	44
8-9	.0	.0	1.2	.2	.0	.0	6	.0	.0	.2	.0	.0	.0	1	14
10-11	.0	.0	.2	.2	.0	.0	2	.0	.0	.2	.0	.0	.0	1	8
12	.0	.0	.5	.2	.0	.0	3	.0	.0	.0	.0	.0	.0	0	5
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	1
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	0	26	67	5	0	0	98	1	11	9	0	0	0	21	405
PCT	.0	6.4	16.5	1.2	.0	.0	24.2	.2	2.7	2.2	.0	.0	.0	5.2	100.0



AUGUST

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)							
HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	3.4	3.4	.2	.0	.0	.0	29
1-2	.7	14.2	5.8	.2	.0	.0	87
3-4	.7	13.7	19.3	2.2	.0	.0	149
5-6	.0	3.1	14.2	1.2	.2	.0	78
7	.0	.2	9.2	1.2	.0	.0	44
8-9	.2	.0	2.2	.7	.2	.0	14
10-11	.0	.0	1.0	1.0	.0	.0	8
12	.0	.0	.7	.5	.0	.0	5
13-16	.0	.0	.0	.2	.0	.0	1
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	21	144	218	30	2	0	415
PCT	5.1	34.7	52.5	7.2	.5	.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.2	11.6	23.7	8.6	3.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	207	3
6-7	.2	.7	8.1	10.4	6.7	2.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	5
8-9	.0	.0	2.7	2.2	3.0	1.7	1.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	6
10-11	.0	.0	.0	1.0	.2	.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
12-13	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	15
INDET	2.5	.5	1.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	1
TOTAL	24	52	147	93	53	21	8	5	2	0	0	0	0	0	0	0	0	0	0	405	4
PCT	5.9	12.8	36.3	23.0	13.1	5.2	2.0	1.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1946-1967  
(OVER-ALL) 1877-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OBS TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG SNOW	DUST OTHER	TOTAL OTHER WEA		
N	.0	.1	.2	.0	.0	.0	.0	5	.0	.3	.0	.0	6	84	.3	
NNE	.0	.2	.1	.0	.0	.0	.0	5	.0	.0	.1	.0	2	54	.3	
NE	.3	.1	.0	.0	.0	.0	.0	6	.1	.4	.1	.0	10	75	.3	
ENE	.2	.1	.0	.0	.0	.0	.0	4	.0	.3	.1	.0	6	52	.2	
E	.5	.0	.1	.0	.0	.0	.0	11	.0	.4	.0	.0	8	77	.6	
ESE	.6	.0	.2	.0	.0	.0	.0	15	.1	.3	.0	.0	7	37	.8	
SF	.2	.0	.1	.0	.0	.0	.0	5	.0	.8	.1	.0	16	56	.3	
SSE	.6	.0	.2	.0	.0	.0	.0	14	.0	.7	.1	.0	14	65	.8	
S	.7	.1	.3	.0	.0	.0	.0	20	.1	2.0	.2	.0	40	122	1.1	
SSW	.4	.3	.3	.0	.0	.0	.0	19	.0	2.1	.1	.0	40	136	1.1	
SW	.4	.1	.2	.0	.0	.0	.0	13	.0	3.2	.2	.0	61	207	.7	
WSW	.4	.1	.3	.0	.0	.0	.0	15	.1	1.9	.3	.1	41	201	.8	
W	.2	.1	.2	.0	.0	.0	.0	7	.0	1.4	.3	.0	31	247	.4	
WNW	.1	.1	.0	.0	.0	.0	.0	3	.0	.4	.0	.0	8	160	.2	
NW	.1	.1	.1	.0	.0	.0	.0	3	.0	.2	.0	.0	3	118	.2	
NNW	.1	.0	.0	.0	.0	.0	.0	1	.0	.1	.0	.1	3	77	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	1	.0	
CALM	.1	.0	.0	.0	.0	.0	.0	1	.0	.3	.0	.0	6	30	.1	
TOT	84	20	43	0	0	0	0	147	4	271	25	2	302	1799		
PCT	4.7	1.1	2.4	.0	.0	.0	.0	8.2	.2	15.1	1.4	.1	16.8	100.0	8.2	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OBS TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG SNOW	DUST OTHER	TOTAL OTHER WEA		
00&03	1.5	.5	.9	.0	.0	.0	.0	53	.1	4.8	.2	.1	93	530	2.9	
06&09	.7	.2	.6	.0	.0	.0	.0	27	.1	2.3	.3	.0	58	379	1.5	
12&15	1.1	.2	.6	.0	.0	.0	.0	35	.1	3.4	.5	.0	71	446	1.9	
18&21	1.3	.2	.2	.0	.0	.0	.0	32	.0	4.4	.4	.1	87	457	1.8	
TOT	84	20	43	0	0	0	0	147	4	278	25	2	309	1812		
PCT	4.6	1.1	2.4	.0	.0	.0	.0	8.1	.2	15.3	1.4	.1	17.1	100.0	8.1	

SEPTEMBER

PERIOD: (PRIMARY) 1946-1967  
(OVER-ALL) 1877-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.2	1.7	1.9	.9	.1	.0	99	4.7	14.6	4.1	6.1	4.4	5.9	6.7	4.1	3.3	3.5
NNE	.0	1.1	1.3	.4	.2	.0	63	3.0	15.4	3.9	2.0	4.1	2.0	2.6	1.4	1.5	4.7
NE	.1	1.2	2.0	.5	.3	.0	88	4.2	15.1	4.2	5.1	4.9	5.9	3.4	4.1	4.6	1.2
ENE	.0	1.3	1.1	.3	.0	.0	58	2.8	12.6	2.6	3.1	2.7	.0	2.8	2.7	3.3	2.3
E	.3	2.1	1.7	.2	.0	.0	92	4.4	10.7	4.8	6.1	4.6	7.8	3.8	1.4	4.1	3.5
ESE	.1	.8	.7	.3	.0	.0	42	2.0	12.2	2.0	2.0	1.4	.0	2.6	1.4	1.5	4.7
SE	.2	1.6	1.3	.2	*	*	71	3.4	12.1	4.8	4.1	2.5	2.0	3.6	2.7	2.	2.3
SSE	.1	1.6	1.8	.3	.0	.0	80	3.8	13.0	4.1	1.0	4.9	3.9	4.3	1.4	3.3	2.3
S	.3	2.7	2.8	.8	.2	.0	143	6.8	13.9	6.6	8.2	4.9	5.9	6.3	9.6	7.7	11.6
SSW	.1	3.0	3.2	.9	.1	*	155	7.4	13.6	7.0	8.2	6.8	11.8	5.9	8.2	9.2	8.1
SW	.3	3.4	6.2	1.4	.1	.1	243	11.6	14.9	11.3	16.3	10.1	17.6	9.7	16.4	12.6	12.8
WSW	.4	3.7	5.1	1.5	.2	.0	230	10.9	14.3	11.6	6.1	10.9	11.8	12.1	11.0	9.0	14.0
W	.4	4.3	6.4	2.2	.1	*	283	13.5	15.3	12.2	8.2	13.1	9.8	14.6	13.7	16.4	11.6
WNW	.0	1.9	5.0	1.6	.2	.0	181	8.6	16.6	9.6	12.2	9.0	7.8	7.1	6.8	7.2	14.0
NW	.1	2.6	3.2	1.0	.1	.0	148	7.0	14.4	6.6	6.1	8.4	2.0	6.9	9.6	7.9	2.3
MNW	.2	1.3	1.9	.9	*	.0	91	4.3	14.5	3.0	3.1	4.9	5.9	6.5	2.7	4.4	.0
VAP	.0	*	.0	.0	.0	.0	1	*	5.0	.0	.0	.0	.0	.0	.0	.3	.0
CALM	1.6						33	1.6	.0	1.7	2.0	2.5	.0	1.0	2.7	1.3	1.2
TOT	96	719	960	284	37	5	2101	100.0	14.1	542	98	367	51	494	73	390	86
PCT	4.6	34.2	45.7	13.5	1.8	.2	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	1.0	3.7	2.3	.6	.0	162	7.7	15.0	7.9	8.2	8.4	7.8	9.3	5.5	4.9	8.1
NE	1.5	3.1	1.8	.4	*	146	6.9	14.1	6.8	8.2	7.6	5.9	6.3	6.8	7.9	3.5
E	1.9	3.2	1.1	.1	.0	134	6.4	11.1	6.8	8.2	6.0	7.8	6.5	2.7	5.6	8.1
SE	1.6	3.8	1.6	.1	*	151	7.2	12.6	8.9	5.1	7.4	5.9	7.9	4.1	5.6	4.7
S	2.8	6.9	3.4	.9	.1	298	14.2	13.7	13.7	16.3	11.7	17.6	12.1	17.8	16.9	19.8
SW	2.7	11.9	6.5	1.1	.3	473	22.5	14.6	22.9	22.4	21.0	29.4	21.9	27.4	21.5	26.7
W	2.0	10.2	8.2	1.4	.1	464	22.1	15.8	21.8	20.4	22.1	17.6	21.7	20.5	23.6	25.6
NW	1.3	6.4	3.0	.7	.0	239	11.4	14.5	9.6	9.2	13.4	7.8	13.4	12.3	12.3	2.3
VAR	*	.0	.0	.0	.0	1	*	5.0	.0	.0	.0	.0	.0	.0	.3	.0
CALM	1.6					33	1.6	.0	1.7	2.0	2.5	.0	1.0	2.7	1.3	1.2
TOT	347	1039	588	114	13	2101	100.0	14.1	542	98	367	51	494	73	390	86
PCT	16.5	49.5	28.0	5.4	.6	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1946-1967  
(OVER-ALL) 1877-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	1.3	10.1	13.8	4.2	.5	*	.0	.5	13.9	30.5	640
06&09	.5	6.9	9.5	2.3	.2	.0	.0	.4	13.5	19.9	418
12&15	.7	10.2	11.7	3.6	.5	*	.0	.3	14.0	27.0	567
18&21	.5	7.0	10.7	3.4	.6	.1	*	.3	15.1	22.7	476
TOT	63	718	960	284	37	5	1	33	14.1		2101
PCT	3.0	34.2	45.7	13.5	1.8	.2	*	1.6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WND DIR	BY WIND DIRECTION				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD		
N	1.2	1.0	1.1	1.7	75	5.1
NNE	.9	.6	.7	1.1	51	4.9
NE	.6	.4	.8	2.3	61	6.3
ENE	.5	.2	.8	1.4	43	6.1
E	1.1	.3	.7	2.4	68	5.6
ESE	.1	.1	.3	1.3	26	7.3
SE	.6	.0	.4	1.7	40	6.3
SSE	.3	.1	.5	2.3	49	6.8
S	.6	.4	1.3	4.6	102	6.8
SSW	.9	.5	1.4	4.4	107	6.4
SW	2.1	.9	2.3	5.7	163	5.9
WSW	3.2	.7	2.3	4.8	165	5.2
W	5.5	1.8	3.0	4.0	214	4.3
WNW	3.5	1.9	2.1	1.9	141	4.0
NW	2.4	1.3	1.5	1.0	94	3.9
NNW	1.2	.9	1.3	1.2	68	4.7
VAR	.0	.0	.0	.1	1	8.0
CALM	.4	.1	.3	.9	26	5.7
TOT	376	170	312	636	1494	5.3
PCT	25.2	11.4	20.9	42.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION											NH <5/8 ANY HGT	TOTAL OBS
000	150	300	600	1000	2000	3500	5000	6500	8000+			
149	299	599	999	1999	3499	4999	6499	7999	8000+			
.3	.0	.1	.8	.7	.4	.0	.1	.0	.0	.0	2.5	75
.1	.0	.1	.3	.3	.4	.1	.0	.0	.1	.1	2.1	51
.4	.0	.1	.3	.7	.8	.3	.1	.1	.1	.1	1.3	61
.1	.0	.0	.3	.6	.5	.1	.1	.1	.0	.0	1.1	43
.3	.1	.4	.5	.6	.5	.1	.0	.1	.1	.1	1.9	68
.3	.0	.1	.2	.5	.3	.0	.0	.0	.0	.0	.3	26
.5	.0	.0	.5	.3	.3	.1	.1	.1	.2	.2	.8	40
.4	.1	.3	.6	.4	.2	.3	.1	.0	.0	.0	.9	49
1.5	.1	.3	.8	.9	.7	.2	.1	.1	.3	.1	1.7	102
1.7	.0	.1	1.2	.8	.4	.3	.1	.1	.1	.1	2.5	107
2.3	.0	.3	.4	1.7	.8	.1	.1	.0	.3	.3	4.9	163
1.5	.0	.3	.7	1.3	.9	.3	.3	.1	.2	.1	5.5	165
.8	.1	.5	.7	1.1	.7	.5	.2	.3	.2	.3	9.2	214
.5	.0	.0	.2	1.1	.7	.1	.0	.1	.2	.2	6.6	141
.1	.0	.1	.3	.3	.3	.1	.1	.1	.0	.0	4.8	94
.1	.0	.1	.5	.5	.3	.1	.0	.1	.0	.0	2.9	68
.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1
.3	.0	.0	.3	.2	.1	.1	.0	.0	.0	.0	.8	26
164	7	42	128	180	125	38	20	18	26	746	1494	
11.0	.5	2.8	8.6	12.0	8.4	2.5	1.3	1.2	1.7	49.9	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1946-1967  
(OVER-ALL) 1877-1967

AREA 001 ARGENTIA  
43-47N 53-56W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	1.7	2.8	3.0	3.0	3.0	3.0	3.0
= OR >5000	2.6	4.2	4.4	4.4	4.4	4.4	4.4
= OR >3500	3.9	6.5	6.8	6.9	6.9	6.9	6.9
= OR >2000	8.5	14.3	14.9	15.1	15.1	15.1	15.1
= OR >1000	14.8	24.6	26.4	26.8	27.0	27.1	27.2
= OR >600	19.0	31.3	34.3	34.8	35.2	35.7	35.8
= OR >300	19.7	32.8	36.6	37.4	37.9	38.5	38.6
= OR >150	19.7	32.8	36.8	37.9	38.3	39.0	39.1
= OR > 0	19.8	33.5	37.7	39.4	40.9	48.7	50.1
TOTAL	295	498	561	586	608	724	745

TOTAL NUMBER OF OBS: 1487

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
19.5	9.9	8.8	6.5	4.3	3.4	6.6	4.9	25.2	10.8	1690

SEPTEMBER

PERIOD: (PRIMARY) 1946-1967  
(OVER-ALL) 1877-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.1	.1	.0	.0	.0	.1	.1	.1	.1	.3	.1	.0	.1	.0	.0	.0	.0	.1	14	1.0
	NO PCP	.2	.0	.3	.1	.1	.1	.5	.3	1.4	1.4	2.1	1.3	.7	.1	.1	.0	.0	.2	131	9.0
	TOTAL	4	1	5	1	2	4	8	5	21	25	31	19	11	2	2	0	0	4	145	10.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	2	.1
	NO PCP	.1	.0	.1	.0	.0	.1	.0	.2	.2	.0	.1	.4	.1	.1	.0	.0	.0	.1	21	1.4
	TOTAL	1	0	1	0	0	1	0	4	3	0	3	6	1	2	0	0	0	1	23	1.6
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.1	.3	.1	.0	.1	.1	.1	.0	.0	.0	.0	10	.7
	NO PCP	.1	.0	.1	.0	.1	.0	.0	.1	.1	.2	.1	.1	.2	.1	.0	.1	.0	.0	17	1.2
	TOTAL	1	0	1	0	1	0	0	3	5	5	2	2	4	2	0	1	0	0	27	1.9
2<5	PCP	.1	.1	.1	.0	.3	.1	.1	.1	.1	.3	.3	.1	.1	.0	.0	.0	.0	.0	26	1.8
	NO PCP	.1	.1	.1	.1	.1	.1	.1	.3	.7	.4	.5	.3	.3	.2	.3	.0	.0	.1	53	3.6
	TOTAL	2	2	3	2	7	4	3	5	12	10	11	7	6	3	0	0	0	2	79	5.4
5<10	PCP	.2	.1	.2	.1	.3	.3	.1	.5	.5	.2	.1	.2	.1	.1	.1	.0	.0	.0	47	3.2
	NO PCP	.8	.5	.5	.4	1.0	.3	.8	.8	1.8	2.0	2.7	2.5	2.5	1.8	1.1	.8	.0	.2	299	20.5
	TOTAL	15	10	10	8	19	9	12	19	34	32	42	39	39	27	17	11	0	3	346	23.8
10<>	PCP	.0	.0	.1	.0	.1	.1	.0	.0	.1	.2	.0	.0	.0	.0	.0	.1	.0	.0	8	.5
	NO PCP	3.5	2.6	2.6	2.2	2.3	.5	1.0	.8	1.7	2.2	4.9	6.0	9.8	7.0	4.9	3.6	.1	1.1	828	56.9
	TOTAL	51	38	39	32	35	8	15	11	26	35	71	88	143	102	71	54	1	16	836	57.4
TOTAL	74	51	59	43	64	26	38	47	101	107	160	161	204	138	90	66	1	26	1456	100.0	
PCT	5.1	3.5	4.1	3.0	4.4	1.8	2.6	3.2	6.9	7.3	11.0	11.1	14.0	9.5	6.2	4.5	.1	1.8	100.0		

SEPTEMBER

PERIOD: (PRIMARY) 1946-1967  
(OVER-ALL) 1877-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
<1/2	0-3	.0	.0	.1	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	11	.7
	4-10	.3	.0	.3	.1	.1	.1	.3	.1	.3	.4	.5	.2	.1	.1	.0	.0	.0	.0		42	2.8
	11-21	.0	.1	.0	.0	.0	.0	.2	.1	.6	.9	1.4	.8	.6	.1	.1	.0	.0	.0		77	5.2
	22&>	.0	.0	.0	.0	.0	.0	.1	.0	.3	.2	.2	.3	.1	.0	.0	.0	.0	.0		16	1.1
	TOTAL	4	1	5	1	2	4	8	5	21	25	31	19	12	2	2	0	0	0	4	146	9.8
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	3	.2
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0		4	.3
	11-21	.0	.0	.0	.0	.0	.1	.0	.2	.1	.0	.2	.1	.1	.0	.0	.0	.0	.0		12	.8
	22&>	.0	.0	.1	.0	.0	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0		4	.3
	TOTAL	1	0	1	0	0	1	0	4	3	0	3	6	1	2	0	0	0	0	1	23	1.5
1<2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	2	.1
	4-10	.0	.0	.1	.0	.1	.0	.0	.1	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0		7	.5
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1	.2	.1	.0	.0	.0	.0		9	.6
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2	.0	.1	.1	.1	.0	.0	.0	.0		10	.7
	TOTAL	1	0	1	0	1	0	0	3	5	5	2	2	4	3	0	1	0	0	0	28	1.9
2<5	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	5	.3
	4-10	.1	.0	.0	.1	.1	.1	.0	.1	.2	.1	.1	.2	.1	.0	.0	.0	.0	.0		16	1.1
	11-21	.0	.1	.1	.0	.2	.1	.1	.2	.1	.3	.3	.2	.2	.2	.0	.0	.0	.0		33	2.2
	22&>	.0	.1	.1	.0	.1	.1	.1	.1	.5	.3	.4	.1	.1	.0	.0	.0	.0	.0		25	1.7
	TOTAL	2	2	3	2	7	4	3	5	12	10	11	7	6	3	0	0	0	0	2	79	5.3
5<10	0-3	.1	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	7	.5
	4-10	.1	.0	.1	.1	.5	.1	.3	.3	.7	.3	.3	.2	.5	.2	.2	.1	.0	.0		61	4.1
	11-21	.5	.5	.4	.4	.6	.2	.6	.8	1.5	1.3	2.0	1.8	1.5	1.1	.5	.3	.0	.0		210	14.1
	22&>	.3	.2	.2	.0	.1	.3	.0	.1	.1	.5	.5	.6	.5	.5	.4	.3	.0	.0		71	4.8
	TOTAL	15	10	11	8	20	9	13	19	34	32	42	39	39	27	17	11	0	0	3	349	23.5
10&>	0-3	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.1	.2	.2	.0	.1	.1	.0	1.1	30	2.0	
	4-10	.6	.9	.6	.7	.6	.3	.3	.5	.8	.9	1.7	1.8	1.0	1.1	1.0	.1	.0		200	13.4	
	11-21	2.4	1.2	1.7	1.1	1.7	.2	.5	.3	1.3	1.5	3.5	3.3	6.1	4.6	3.0	1.9	.0		509	34.2	
	22&>	.5	.4	.4	.3	.1	.0	.2	.1	.0	.1	.3	.9	2.0	1.4	.8	.7	.0		123	8.3	
	TOTAL	52	38	40	32	38	8	16	13	27	35	73	90	150	104	74	55	1	16	862	58.0	
TOTAL		75	51	61	43	68	26	40	49	102	107	162	163	212	141	93	67	1	26	1487	100.0	
PCT		5.0	3.4	4.1	2.9	4.6	1.7	2.7	3.3	6.9	7.2	10.9	11.0	14.3	9.5	6.3	4.5	.1	1.7	100.0		

SEPTEMBER

PERIOD: (PRIMARY) 1946-1967  
(OVER-ALL) 1877-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	3.7	.2	.7	1.3	2.5	2.2	.8	.6	.2	.6	202	14.4	430
06009	2.1	.1	.8	1.6	2.6	2.1	.4	.3	.3	.3	168	11.8	354
12015	1.8	.1	.6	2.6	3.0	1.4	.4	.3	.3	.2	169	13.0	375
18021	2.8	.1	.6	2.6	3.3	2.3	.8	.1	.3	.5	212	13.2	421
TOT	164	7	42	128	180	126	39	21	18	26	751	829	1580
PCT	10.4	.4	2.7	8.1	11.4	8.0	2.5	1.3	1.1	1.6	47.5	52.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	3.4	.6	.5	.9	6.0	16.0	409
06009	2.0	.1	.1	.7	6.0	12.8	324
12015	1.7	.2	.6	1.7	5.6	13.9	354
18021	2.6	.6	.6	1.9	5.9	15.4	404
TOT	146	23	28	79	349	866	1491
PCT	9.8	1.5	1.9	5.3	23.4	58.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HR	<150	<600	1000	1000+	NH <5/8	TOTAL
(GMT)	<50YD	<1	<5	&DR5+	ANY HGT	OBS
00003	.3	3.4	4.6	8.9	14.0	409
06009	.4	1.9	2.4	8.8	10.5	324
12015	.1	1.7	2.9	8.4	12.5	354
18021	.5	2.7	4.2	10.0	12.9	404
TOT	20	145	84	538	744	1491
PCT	1.3	9.7	5.6	36.1	49.9	100.0



SEPTEMBER

PERIOD: (PRIMARY) 1946-1967  
(OVER-ALL) 1877-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
70/74	.0	.0	.0	.1	.1	.1	.0	.1	7	.5
65/69	.0	.0	.0	.1	.3	.7	.5	1.4	43	2.9
60/64	.1	.0	.0	.3	1.6	2.0	5.0	10.2	282	19.2
55/59	.0	.0	.1	.2	3.2	8.8	14.1	19.0	667	45.5
50/54	.0	.0	.1	.5	4.7	4.2	8.7	8.9	396	27.0
45/49	.0	.0	.0	.2	.8	1.4	1.2	.8	63	4.3
40/44	.0	.0	.0	.0	.0	.2	.1	.1	7	.5
TOTAL	1	0	4	20	157	255	433	595	1465	100.0
PCT	.1	.0	.3	1.4	10.7	17.4	29.6	40.6		

TABLE 14

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.2	.0	.3	.0	.0	.0
.0	.2	.2	.3	.7	1.0	.5	.1	.0	.0
.8	.5	1.0	1.7	4.7	6.5	3.0	.8	.0	.3
2.9	3.0	2.9	3.2	6.5	11.0	10.8	4.4	.0	.8
3.3	2.6	2.0	1.1	1.6	3.8	7.4	4.8	.1	.3
1.0	.2	.1	.1	.1	.0	1.0	1.6	.0	.2
.1	.1	.1	.0	.1	.0	.1	.1	.0	.0
117	97	94	94	203	326	337	173	1	23
8.0	6.6	6.4	6.4	13.9	22.3	23.0	11.8	.1	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	69	68	64	56	49	45	44	56.2	641
06&09	77	66	63	55	47	44	43	53.5	417
12&15	76	68	65	57	49	46	44	56.5	562
18&21	74	73	67	58	51	46	43	57.2	476
TOT	77	67	64	56	48	44	43	56.4	2096

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	2.6	4.7	9.1	12.1	86	423
06&09	.0	.5	1.9	2.8	7.0	9.7	87	324
12&15	.1	.5	2.5	4.6	6.9	9.5	85	357
18&21	.0	.5	3.7	5.2	6.4	9.5	84	374
TOT	1	25	158	256	434	604	85	1478

PERIOD: (PRIMARY) 1946-1967  
(OVER-ALL) 1877-1967

SEPTEMBER

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	WO FOG
17/19	.0	.0	.1	.1	.0	.0	.0	2	.0	.1
14/16	.0	.0	.1	.1	.0	.0	.0	3	.1	.1
11/13	.0	.0	.1	.1	.1	.1	.1	10	.2	.4
9/10	.1	.2	.2	.4	.6	.1	.1	27	.5	1.2
7/8	.2	.1	.5	1.2	1.0	.1	.2	54	.9	2.5
6	.0	.1	.4	.7	1.1	.3	.1	44	.6	2.1
5	.0	.2	1.2	2.2	.7	.5	.0	77	1.3	3.5
4	.0	.4	1.8	4.0	1.3	.4	.0	127	1.8	6.1
3	.1	.3	2.3	3.0	1.9	.3	.0	128	1.5	6.4
2	.1	.8	3.6	4.6	1.2	.1	.0	168	2.0	8.4
1	.1	.8	4.8	4.5	1.1	.1	.0	184	2.7	8.7
0	.4	1.8	5.1	3.8	1.2	.2	.0	202	1.6	10.9
-1	.2	1.3	4.8	2.6	.5	.0	.0	153	.9	8.6
-2	.2	1.5	4.8	1.5	.5	.0	.0	139	.9	7.7
-3	.2	1.4	2.7	1.2	.1	.0	.0	89	.1	5.4
-4	.1	1.7	2.2	.8	.1	.0	.0	78	.4	4.4
-5	.3	.9	1.1	.2	.0	.0	.0	39	.1	2.3
-6	.2	.7	.9	.2	.0	.0	.0	33	.0	2.0
-7/-8	.7	.7	.9	.1	.0	.0	.0	39	.1	2.3
-9/-10	.4	.2	.2	.1	.0	.0	.0	14	.0	.9
-11/-13	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
TOTAL	53	211	610	506	186	37	8	1611	251	1360
PCT	3.3	13.1	37.9	31.4	11.5	2.3	.5	100.0	15.6	84.4

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

SEPTEMBER

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						TOTAL	NE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.0	.5	.0	.0	.0	.0	2	.0	.0	.2	.0	.0	.0	1
1-2	.0	2.6	.2	.2	.0	.0	13	.0	1.7	.2	.0	.0	.0	8
3-4	.2	1.4	1.7	.2	.0	.0	15	.0	.2	.7	.0	.0	.0	4
5-6	.0	.0	1.9	.2	.0	.0	9	.0	.0	1.2	.2	.0	.0	6
7	.0	.2	.7	.7	.0	.0	7	.0	.0	.5	.2	.2	.0	4
8-9	.0	.0	.0	.2	.0	.0	1	.0	.0	.2	.0	.0	.0	1
10-11	.0	.0	.0	.5	.0	.0	2	.0	.0	.0	.2	.0	.0	1
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.2	.0	1
13-16	.0	.0	.0	.2	.0	.0	1	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	20	19	10	0	0	50	0	8	13	3	2	0	26
PCT	.2	4.7	4.5	2.4	.0	.0	11.8	.0	1.9	3.1	.7	.5	.0	6.1

HGT	E						TOTAL	SE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.0	.7	.2	.0	.0	.0	4	.0	.0	.2	.0	.0	.0	1
1-2	.0	1.4	.0	.0	.0	.0	6	.0	.5	.2	.0	.0	.0	3
3-4	.0	.2	1.4	.0	.0	.0	7	.0	.2	.5	.0	.0	.0	3
5-6	.0	.7	.2	.0	.0	.0	4	.0	.2	.5	.0	.0	.0	4
7	.0	.2	.0	.2	.0	.0	2	.0	.0	.5	.0	.0	.0	2
8-9	.0	.0	.2	.0	.0	.0	1	.0	.0	.0	.0	.0	.2	1
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.2	.0	1
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	0	14	9	1	0	0	24	0	4	7	2	1	1	15
PCT	.0	3.3	2.1	.2	.0	.0	5.7	.0	.9	1.7	.5	.2	.2	3.5

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

SEPTEMBER

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	
<1	.5	1.4	.0	.0	.0	.0	8	.0	.2	.2	.0	.0	.0	2	
1-2	.0	3.3	.7	.0	.0	.0	17	.0	3.3	.5	.0	.0	.0	16	
3-4	.0	.9	2.1	.5	.0	.0	15	.0	2.1	4.0	1.4	.0	.0	32	
5-6	.0	.0	1.9	.0	.2	.0	9	.0	.5	4.0	.5	.0	.0	21	
7	.0	.0	.2	.7	.2	.0	5	.0	.2	1.2	.5	.0	.0	8	
8-9	.0	.0	.2	.0	.2	.0	2	.0	.2	.9	.0	.2	.0	6	
10-11	.0	.0	.0	.0	.2	.0	1	.0	.2	.0	.0	.0	.0	1	
12	.0	.0	.0	.0	.0	.0	0	.0	.2	.0	.0	.0	.0	2	
13-16	.0	.0	.0	.2	.2	.2	3	.0	.0	.0	.0	.2	.0	0	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.2	.0	1	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	2	24	22	6	5	1	60	0	30	46	11	2	0	89	
PCT	.5	5.7	5.2	1.4	1.2	.2	14.2	.0	7.1	10.9	2.6	.5	.0	21.0	

HGT	W							NW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.2	.7	.0	.0	.0	.0	4	.0	.5	.0	.0	.0	.0	2	24	
1-2	.0	3.1	1.9	.0	.0	.0	21	.2	2.6	.9	.0	.0	.0	16	100	
3-4	.0	2.8	5.0	.9	.0	.0	37	.0	.7	3.3	.0	.0	.0	17	130	
5-6	.0	.9	2.4	1.2	.0	.0	19	.0	.2	2.1	.2	.0	.0	11	83	
7	.0	.0	.9	.5	.0	.0	6	.0	.0	.5	.5	.0	.0	4	38	
8-9	.0	.0	1.4	.5	.0	.0	8	.0	.0	.0	.5	.0	.0	2	22	
10-11	.0	.0	.5	.9	.0	.0	6	.0	.0	.0	.2	.0	.0	1	12	
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.5	.2	.0	4	7	
13-16	.0	.0	.2	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0	6	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	1	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
TOTAL	1	32	52	17	0	0	102	1	17	30	8	1	0	57	423	
PCT	.2	7.6	12.3	4.0	.0	.0	24.1	.2	4.0	7.1	1.9	.2	.0	13.5	100.0	

SEPTEMBER

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

TABLE 18 (CONT)

AREA 001 ARGENTIA  
45-47N 53-56W

WIND SPEED (KTS) VS SEA HEIGHT (FT)							
HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	2.8	3.9	.9	.0	.0	.0	33
1-2	.7	18.0	4.6	.2	.0	.0	102
3-4	.2	8.5	18.2	3.0	.0	.0	130
5-6	.0	2.5	13.6	2.8	.2	.0	83
7	.0	.7	4.4	3.2	.5	.0	38
8-9	.0	.2	3.0	1.2	.5	.2	22
10-11	.0	.2	.5	1.8	.2	.0	12
12	.0	.2	.2	.7	.5	.0	7
13-16	.0	.0	.2	.5	.5	.2	6
17-19	.0	.0	.0	.0	.2	.0	1
20-22	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	16	149	198	58	11	2	434
PCT	3.7	34.3	45.6	13.4	2.5	.5	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)																							
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT		
<6	2.7	11.8	16.9	7.5	.7	.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	179	3	
6-7	.0	.5	5.7	12.3	6.6	2.1	1.6	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	132	5
8-9	.0	.2	1.8	4.1	4.3	2.5	1.4	1.8	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	7
10-11	.0	.0	.5	1.4	1.4	.2	.9	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	7
12-13	.0	.0	.0	.0	.0	.5	.0	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	11
>13	.0	.0	.0	.2	.2	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	9
INDET	2.3	.7	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	1
TOTAL	22	58	119	112	58	26	19	14	9	2	0	0	0	0	0	0	0	0	0	0	0	439	4
PCT	5.0	13.2	27.1	25.5	13.2	5.9	4.3	3.2	2.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1874-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OBS TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
N	.3	.2	.2	.0	.1	.0	.0	12	.0	.2	.0	.0	.0	4	98	.7
NNE	.2	.1	.2	.0	.0	.0	.0	8	.0	.3	.0	.0	.0	5	50	.5
NE	.5	.1	.3	.0	.0	.0	.0	16	.0	.1	.1	.0	.0	2	63	.9
ENE	.8	.0	.3	.0	.0	.0	.0	19	.0	.4	.1	.1	.1	10	66	1.1
E	.5	.2	.3	.0	.0	.0	.0	16	.0	.3	.0	.0	.0	5	56	.9
ESE	.5	.1	.1	.0	.0	.0	.0	12	.0	.4	.1	.0	.0	9	53	.7
SE	.7	.2	.2	.0	.0	.0	.0	19	.0	1.0	.1	.0	.0	19	81	1.1
SSE	.9	.1	.2	.0	.0	.0	.0	22	.0	1.1	.1	.0	.0	21	91	1.3
S	.5	.1	.3	.0	.0	.0	.0	17	.0	1.3	.2	.0	.0	26	113	1.0
SSW	.4	.2	.1	.0	.0	.0	.0	11	.0	1.1	.1	.0	.0	21	93	.6
SW	.4	.1	.2	.0	.0	.0	.0	12	.0	1.4	.2	.0	.0	28	131	.7
WSW	.5	.1	.1	.0	.0	.0	.0	11	.0	1.1	.1	.0	.0	22	194	.6
W	.3	.3	.2	.0	.0	.0	.0	15	.1	.9	.2	.1	.0	20	256	.9
WNW	.2	.1	.0	.0	.0	.0	.0	6	.0	.1	.0	.0	.0	2	169	.3
NW	.2	.2	.1	.0	.1	.0	.0	8	.0	.3	.1	.0	.0	7	142	.5
NNW	.1	.1	.1	.0	.0	.0	.0	4	.0	.1	.2	.0	.0	5	76	.2
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0	1	.0
CALM	.1	.0	.1	.0	.0	.0	.0	3	.0	.3	.1	.0	.0	7	19	.2
TOT	121	37	51	0	2	0	0	211	1	186	24	2	213	1752		
PCT	6.9	2.1	2.9	.0	.1	.0	.0	12.0	.1	10.6	1.4	.1	12.2	100.0		12.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OBS TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
00&03	2.1	.8	.9	.0	.1	.0	.0	68	.0	2.5	.1	.1	.1	47	502	3.9
06&09	1.5	.6	.6	.0	.0	.0	.0	46	.0	2.6	.3	.0	.0	50	399	2.6
12&15	1.6	.5	.9	.0	.0	.0	.0	51	.1	3.4	.6	.1	.1	71	441	2.9
18&21	1.8	.3	.6	.0	.1	.0	.0	47	.0	2.2	.4	.0	.0	45	419	2.7
TOT	122	37	51	0	2	0	0	212	1	186	24	2	213	1761		
PCT	6.9	2.1	2.9	.0	.1	.0	.0	12.0	.1	10.6	1.4	.1	12.1	100.0		12.0

OCTOBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1874-1967

TABLE 3

AREA 001 ARGENTIA  
45-47N 53-56W

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.1	1.8	1.9	1.2	.3	.0	112	5.3	16.2	5.2	4.2	6.0	6.7	4.0	7.0	5.1	10.6
NNE	.0	.7	1.3	.7	*	.0	58	2.8	17.1	2.3	2.5	2.6	5.0	3.0	2.8	3.1	2.1
NE	.2	1.3	1.3	.8	*	.0	75	3.6	15.5	2.9	5.9	4.2	3.3	4.4	2.8	2.5	2.1
ENE	.1	1.0	1.9	.5	.1	.0	78	3.7	15.3	3.5	3.4	3.9	3.3	4.4	1.4	3.4	4.3
E	.1	1.1	1.7	.5	*	*	74	3.5	15.1	3.9	3.4	4.4	8.3	3.0	2.8	2.8	1.1
ESE	.0	1.2	1.6	.2	*	.0	64	3.0	13.5	3.3	3.4	2.1	.0	2.6	1.4	4.8	4.3
SE	.1	1.9	1.7	.8	.1	.0	96	4.6	14.5	5.4	5.0	3.6	6.7	4.0	7.0	4.5	3.2
SSE	.2	1.6	2.5	.7	.2	.0	109	5.2	14.4	4.2	6.7	4.9	3.3	4.8	4.2	6.7	7.4
S	.1	1.8	3.1	1.2	.2	.0	136	6.5	16.0	4.4	10.9	7.3	8.3	7.7	7.0	5.3	4.3
SSW	*	1.6	2.6	.8	.1	.0	108	5.1	15.1	5.8	4.2	4.2	5.0	5.9	8.5	3.9	4.3
SW	.2	2.3	4.3	1.0	.1	.0	168	8.0	14.7	9.1	1.7	9.6	8.3	8.5	7.0	6.7	5.3
WSW	.1	2.0	5.6	2.6	.5	.0	229	10.9	18.0	8.7	10.1	10.9	16.7	12.7	12.7	11.0	8.5
W	.2	3.1	6.1	3.7	1.0	*	300	14.2	18.5	14.8	16.0	14.3	13.3	12.1	14.1	15.2	17.0
WNW	.1	1.5	3.9	3.5	.4	*	200	9.5	19.6	11.0	5.9	8.9	3.3	9.1	11.3	10.1	10.6
NW	.1	2.5	4.0	1.5	.3	.0	178	8.4	16.0	9.8	10.1	6.0	5.0	8.1	5.6	9.3	11.7
NNW	.1	1.3	2.1	.9	.2	.0	96	4.6	16.0	5.0	5.9	5.2	3.3	4.4	2.8	3.9	3.2
VAR	*	.0	.0	.0	.0	.0	1	*	2.0	.0	.0	.0	.0	.2	.0	.0	.0
CALM	1.2						26	1.2	.0	.8	.8	1.8	.0	1.4	1.4	1.7	.0
TOT	69	563	960	434	79	3	2108	100.0	16.3	519	119	384	60	505	71	356	94
PCT	3.3	26.7	45.5	20.6	3.7	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)								
	0-6	7-16	17-27	28-40				41+	00	03	06	09	12	15	18	21
N	1.2	3.3	2.6	.8	.2	170	8.1	16.5	7.5	6.7	8.6	11.7	6.9	9.9	8.1	12.8
NE	.9	3.5	2.1	.8	*	153	7.3	15.4	6.4	9.2	8.1	6.7	8.7	4.2	5.9	6.4
E	.8	3.7	1.7	.3	*	138	6.5	14.3	7.1	6.7	6.5	8.3	5.5	4.2	7.6	5.3
SE	1.7	4.8	2.5	.8	.0	205	9.7	14.5	9.6	11.8	8.6	10.0	8.7	11.3	11.2	10.6
S	.9	6.5	3.4	1.0	.0	244	11.6	15.6	10.2	15.1	11.5	13.3	13.7	15.5	9.3	8.5
SW	1.7	7.9	7.5	1.7	.0	397	18.8	16.6	17.7	11.8	20.6	25.0	21.2	19.7	17.7	13.8
W	1.7	9.0	8.9	3.7	.4	500	23.7	18.9	25.8	21.8	23.2	16.7	21.2	25.4	25.3	27.7
NW	1.3	6.1	4.4	1.1	*	274	13.0	16.0	14.8	16.0	11.2	8.3	12.5	8.5	13.2	14.9
VAR	*	.0	.0	.0	.0	1	*	2.0	.0	.0	.0	.0	.2	.0	.0	.0
CALM	1.2					26	1.2	.0	.8	.8	1.8	.0	1.4	1.4	1.7	.0
TOT	241	939	697	216	15	2108	100.0	16.3	519	119	384	60	505	71	356	94
PCT	11.4	44.5	33.1	10.2	.7	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1874-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	.6	8.5	13.8	6.1	1.0	*	.0	.2	16.0	30.3	638
06&09	.3	5.6	9.9	4.0	.8	.0	.0	.3	16.0	21.1	444
12&15	.7	8.0	11.8	5.3	1.1	*	*	.4	15.8	27.3	576
18&21	.3	4.6	10.1	5.2	.9	*	.0	.3	17.5	21.3	450
TOT	42	563	960	434	79	3	1	26	16.3		2108
PCT	2.0	26.7	45.5	20.6	3.7	.1	*	1.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION					MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBS	TOTAL OBS	
N	.9	.5	2.4	1.9	86	5.8
NNE	.5	.3	.6	1.0	37	5.4
NE	.2	.0	.7	2.6	52	7.3
ENE	.1	.3	.3	2.7	52	7.1
E	.6	.1	.2	2.4	49	6.6
ESE	.5	.1	.5	1.6	42	6.1
SE	.3	.2	.7	3.0	62	7.0
SSE	.7	.2	1.1	2.8	73	6.4
S	.6	.3	1.4	4.0	94	6.8
SSW	.7	.4	1.2	2.8	76	6.2
SW	1.4	.5	1.9	3.4	106	5.8
WSW	3.2	.6	3.0	4.1	162	5.2
W	4.8	2.1	4.3	4.4	232	4.7
WNW	2.5	1.8	3.6	2.2	151	4.8
NW	2.1	1.0	2.6	3.1	131	5.4
NNW	.9	.3	1.5	1.9	70	5.8
VAR	.0	.1	.0	.0	1	4.0
CALM	.3	.2	.1	.3	13	4.2
TOT	304	135	391	659	1489	5.7
PCT	20.4	9.1	26.3	44.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION															
000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS				
149	299	599	999	1999	3499	4999	6499	7999							
.1	.0	.3	.4	1.5	1.3	.1	.0	.1	.0	1.9	86				
.2	.0	.1	.1	.6	.3	.0	.0	.0	.1	1.1	37				
.3	.0	.1	.8	1.1	.8	.0	.1	.1	.0	.3	52				
.3	.0	.2	.5	.9	.7	.0	.0	.1	.1	.7	52				
.4	.0	.1	.3	.9	.5	.0	.0	.0	.1	.9	49				
.1	.0	.3	.5	.7	.3	.0	.0	.0	.1	.9	42				
.7	.1	.1	.7	1.0	.4	.2	.1	.0	.1	.7	62				
.9	.0	.0	.8	.7	.3	.1	.1	.1	.0	1.9	73				
.9	.0	.3	.5	1.3	.6	.3	.3	.0	.3	1.7	94				
.5	.0	.2	.4	.7	.7	.1	.3	.2	.2	1.9	76				
.7	.1	.1	.4	.9	.9	.3	.1	.1	.1	3.4	106				
.7	.1	.3	.7	1.7	1.6	.4	.0	.1	.2	5.0	162				
.5	.1	.1	.6	3.3	1.9	.6	.0	.0	.2	8.3	232				
.0	.0	.2	.6	1.7	1.9	.3	.2	.1	.1	5.0	151				
.2	.1	.3	.5	1.4	1.7	.3	.1	.1	.1	4.1	131				
.2	.0	.1	.8	.6	.9	.1	.0	.0	.1	1.9	70				
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1				
.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.5	13				
103	6	38	131	284	225	43	18	12	26	603	1489				
6.9	.4	2.6	8.8	19.1	15.1	2.9	1.2	.8	1.7	40.5	100.0				



OCTOBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1874-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	1.1	2.3	2.4	2.6	2.6	2.6	2.6
= OR >5000	1.8	3.4	3.6	3.7	3.7	3.7	3.7
= OR >3500	3.6	6.1	6.4	6.5	6.5	6.6	6.6
= OR >2000	11.7	20.5	21.3	21.5	21.5	21.6	21.6
= OR >1000	21.4	37.2	39.5	40.2	40.2	40.6	40.8
= OR >600	25.9	43.8	47.5	48.6	49.0	49.3	49.6
= OR >300	26.6	45.2	49.8	51.1	51.5	51.9	52.1
= OR >150	26.7	45.4	50.0	51.5	51.9	52.3	52.5
= OR > 0	27.0	46.5	51.5	54.0	55.4	58.6	59.4
TOTAL	400	688	763	799	820	868	879

TOTAL NUMBER OF OBS: 1481

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.0	7.5	9.2	5.1	4.5	5.6	10.2	8.3	29.7	5.9	1699

## OCTOBER

 PERIOD: (PRIMARY) 1944-1967  
 (OVER-ALL) 1874-1967

TABLE 8

 AREA 001 ARGENTIA  
 45-47N 53-56W

 PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
 WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.0	.0	.0	.0	.0	.0	.3	.1	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.9	.6
	NO PCP	.1	.0	.0	.1	.1	.1	.3	.3	.6	.3	.5	.5	.2	.0	.1	.1	.0	.1	51	3.6
	TOTAL	1	0	0	2	2	2	9	6	10	6	7	7	4	0	2	1	0	1	60	4.2
1/2<1	PCP	.0	.1	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.5	.3
	NO PCP	.0	.1	.0	.1	.1	.0	.1	.3	.1	.1	.0	.1	.0	.0	.1	.1	.0	.1	17	1.2
	TOTAL	0	3	0	2	1	0	2	6	1	1	0	1	1	0	2	1	0	1	22	1.5
1<2	PCP	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	13	.9
	NO PCP	.0	.0	.1	.0	.1	.1	.1	.1	.3	.1	.2	.3	.1	.0	.0	.0	.0	.1	26	1.8
	TOTAL	0	0	4	1	2	4	3	4	6	4	3	5	2	0	0	0	0	1	39	2.7
2<5	PCP	.1	.1	.3	.5	.1	.4	.3	.3	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	41	2.9
	NO PCP	.0	.1	.1	.0	.0	.0	.4	.4	.3	.4	.3	.3	.5	.1	.1	.0	.0	.0	44	3.1
	TOTAL	1	3	7	7	2	6	10	10	8	9	5	6	8	2	1	0	0	0	85	5.9
5<10	PCP	.3	.1	.4	.2	.6	.1	.3	.3	.3	.2	.3	.3	.3	.2	.2	.1	.0	.1	67	4.7
	NO PCP	1.5	.6	1.2	1.1	.6	.6	.7	.9	2.1	1.3	2.2	3.0	3.6	2.5	1.7	.8	.0	.3	353	24.7
	TOTAL	26	10	23	19	16	11	15	18	35	21	36	48	57	39	28	13	0	5	420	29.4
10<≥	PCP	.2	.0	.1	.2	.1	.0	.1	.0	.2	.0	.2	.0	.3	.0	.2	.1	.0	.0	24	1.7
	NO PCP	3.5	1.5	1.0	1.2	1.4	1.1	1.5	1.8	2.0	2.2	3.1	6.4	10.2	7.3	6.4	3.5	.1	.3	780	54.5
	TOTAL	59	21	16	20	22	16	22	26	31	32	47	91	150	105	95	51	1	5	804	56.2
TOTAL	81	37	50	51	45	39	61	70	91	73	98	158	222	146	128	66	1	13	1430	100.0	
PCT	5.7	2.6	3.5	3.6	3.1	2.7	4.3	4.9	6.4	5.1	6.9	11.0	15.5	10.2	9.0	4.6	.1	.9	100.0		

OCTOBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1874-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	4	.3
	4-10	.1	.0	.0	.0	.1	.1	.0	.1	.1	.3	.1	.1	.1	.0	.1	.1	.0		17	1.1
	11-21	.0	.0	.0	.1	.1	.1	.5	.2	.6	.1	.1	.3	.1	.0	.1	.0	.0		33	2.2
	22&>	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.2	.0	.1	.0	.0	.0	.0		7	.5
	TOTAL	1	0	0	2	2	2	9	6	11	6	7	7	4	0	2	1	0	1	61	4.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
	4-10	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.0		5	.3
	11-21	.0	.2	.0	.0	.1	.0	.1	.3	.1	.0	.0	.1	.0	.0	.1	.0	.0		13	.9
	22&>	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1	.0	.0	.1	.0	.0	.0	.0		4	.3
	TOTAL	0	3	0	2	1	0	2	6	1	1	1	1	1	0	2	1	0	1	23	1.6
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	2	.1
	4-10	.0	.0	.1	.0	.1	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0		5	.3
	11-21	.0	.0	.1	.1	.0	.3	.1	.1	.2	.1	.1	.3	.1	.0	.0	.0	.0		24	1.6
	22&>	.0	.0	.1	.0	.1	.0	.1	.1	.1	.1	.0	.0	.1	.0	.0	.0	.0		9	.6
	TOTAL	0	0	4	1	2	4	3	4	6	4	4	5	2	0	0	0	0	1	40	2.7
2<5	0-3	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	4	.3
	4-10	.1	.0	.1	.1	.0	.1	.1	.1	.1	.0	.0	.1	.1	.0	.1	.0	.0		12	.8
	11-21	.0	.1	.2	.3	.1	.1	.2	.1	.2	.4	.2	.2	.1	.1	.0	.0	.0		34	2.3
	22&>	.0	.1	.1	.1	.0	.2	.3	.5	.3	.3	.1	.1	.2	.1	.0	.0	.0		36	2.4
	TOTAL	1	3	7	7	2	6	10	10	8	10	5	6	8	2	1	0	0	0	86	5.8
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.0	.3	8	.5
	4-10	.2	.1	.3	.1	.2	.1	.1	.1	.3	.2	.3	.5	.3	.0	.3	.1	.0		50	3.4
	11-21	.7	.4	.7	.8	.7	.6	.5	.8	1.4	1.0	1.8	1.8	1.8	1.2	1.1	.4	.0		233	15.7
	22&>	.8	.1	.5	.3	.2	.1	.4	.2	.6	.2	.3	1.0	1.7	1.4	.5	.3	.0		129	8.7
	TOTAL	26	10	23	19	16	11	15	18	35	21	36	48	57	39	28	13	0	5	420	28.4
10&>	0-3	.1	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.1	.1	.0	.1	.1	.1	.3	13	.9
	4-10	1.3	.3	.3	.5	.5	.6	.7	.7	.3	.6	.5	.7	.9	.9	1.1	.7	.0		158	10.7
	11-21	1.6	.9	.7	.6	.9	.7	.7	1.1	1.3	1.4	2.5	3.4	6.1	3.3	4.1	2.0	.0		460	31.1
	22&>	.9	.3	.1	.3	.5	.0	.1	.1	.6	.2	.5	2.2	3.7	3.1	1.4	.9	.0		220	14.9
	TOTAL	57	21	17	21	27	19	23	29	33	33	52	93	159	109	98	54	1	5	851	57.5
TOTAL		85	37	51	52	50	42	62	73	94	75	105	160	231	150	131	69	1	13	1481	100.0
PCT		5.7	2.5	3.4	3.5	3.4	2.8	4.2	4.9	6.3	5.1	7.1	10.8	15.6	10.1	8.8	4.7	.1	.9	100.0	

OCTOBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1874-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.6	.2	.6	2.1	4.4	3.8	.7	.4	.3	.5	232	12.2	424
06&09	1.9	.1	.4	1.7	4.4	3.6	.8	.2	.1	.5	212	10.7	380
12&15	1.8	.1	.4	2.2	4.8	3.2	.7	.3	.2	.3	219	9.7	372
18&21	1.3	.1	1.0	2.5	4.4	3.8	.6	.3	.2	.4	227	10.9	399
TOT PCT	103 6.5	6 .4	38 2.4	133 8.4	284 18.0	227 14.4	43 2.7	18 1.1	12 .8	26 1.7	890 56.5	685 43.5	1575 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.3	.3	.4	1.7	8.1	15.2	399
06&09	1.3	.4	.4	1.3	7.1	13.1	351
12&15	1.1	.6	1.1	1.3	5.3	14.2	350
18&21	.5	.3	.8	1.5	7.8	15.0	384
TOT PCT	61 4.1	24 1.6	40 2.7	86 5.8	420 28.3	853 57.5	1484 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HRUR (GMT)	<150 <500D	<600 <1	1000 <5	1000+ EOR5+	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	1.1	2.3	13.1	11.5	399
06&09	.3	1.4	2.2	11.9	9.5	351
12&15	.1	1.2	2.6	12.1	8.9	350
18&21	.1	.7	2.3	12.8	10.8	384
TOT PCT	7 .5	66 4.4	80 5.4	742 50.0	603 40.6	1484 100.0

OCTOBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1874-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
60/64	.0	.0	.0	.1	.2	.2	.3	.9	25	1.7
55/59	.0	.0	.0	.1	1.4	1.7	3.3	5.9	182	12.5
50/54	.0	.0	.1	.4	4.5	4.5	11.6	15.9	539	36.9
45/49	.0	.0	.4	.9	4.0	7.9	9.5	11.6	500	34.2
40/44	.0	.0	.1	.7	3.1	3.2	3.1	2.3	181	12.4
35/39	.0	.0	.0	.2	.8	.2	.3	.5	31	2.1
30/34	.0	.0	.0	.0	.1	.1	.0	.0	2	.1
TOTAL	0	0	8	35	205	258	412	542	1460	100.0
PCT	.0	.0	.5	2.4	14.0	17.7	28.2	37.1		

TABLE 14

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.5	.5	.5	.1	.0	.0	.0
.2	.2	.5	1.6	3.4	3.8	1.9	.8	.0	.1
1.9	2.1	2.8	5.2	4.5	8.6	8.3	3.1	.0	.4
3.8	3.9	2.5	2.0	2.8	4.7	9.5	4.8	.0	.2
2.2	1.0	.6	.5	.5	.4	3.7	3.3	.0	.2
.6	.2	.0	.0	.0	.0	.5	.8	.0	.0
.0	.0	.0	.0	.0	.0	.1	.1	.0	.0
128	108	95	142	170	264	351	188	0	14
8.8	7.4	6.5	9.7	11.6	18.1	24.0	12.9	.0	1.0

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR								TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	
00&03	63	62	58	50	41	37	35	49.0	635
06&09	64	60	58	50	41	35	33	48.9	439
12&15	64	64	60	52	43	38	36	50.2	570
18&21	67	66	60	51	42	37	35	49.7	448
TOT	67	62	58	50	41	36	33	49.4	2092

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR							MEAN	TOTAL OBS
	0-29	30-39	40-49	50-59	60-69	70-79	80-89		
00&03	.0	1.1	3.2	4.9	7.2	11.4	84	408	
06&09	.0	.3	3.0	4.3	6.9	8.6	84	339	
12&15	.0	.6	3.7	4.6	7.6	9.1	83	377	
18&21	.0	.9	4.1	3.9	6.7	7.9	82	344	
TOT	0	43	206	260	416	543	83	1468	

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1874-1967

OCTOBER

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 17

AIR-SEA TMP DIF	PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)										TOT	W FOG	WD FOG
	33	37	41	45	49	53	57	61	65	68			
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.0		1	.0	.1
11/13	.0	.0	.0	.1	.1	.0	.0	.1	.0		5	.0	.3
9/10	.0	.0	.0	.1	.1	.3	.2	.2	.0		13	.3	.5
7/8	.0	.0	.0	.1	.5	.9	.4	.3	.0		35	.4	1.8
6	.0	.0	.0	.2	.9	1.2	.7	.1	.0		47	.4	2.6
5	.0	.0	.0	.4	1.6	1.6	.5	.0	.1		64	1.3	2.8
4	.0	.0	.0	.5	2.7	2.2	.8	.1	.0		99	.9	5.4
3	.0	.1	.1	1.2	3.8	2.3	.8	.1	.0		131	1.3	7.1
2	.0	.0	.2	2.2	3.4	2.3	.4	.1	.0		134	1.6	7.0
1	.0	.0	.4	1.8	4.4	2.0	.4	.0	.0		141	1.5	7.5
0	.0	.0	.3	3.1	4.5	.9	.1	.0	.0		139	.9	8.0
-1	.0	.1	1.2	3.5	3.3	1.3	.3	.1	.0		151	.8	8.9
-2	.0	.2	1.9	3.1	2.9	1.0	.1	.1	.0		145	.8	8.5
-3	.0	.2	1.3	2.3	1.6	.6	.0	.0	.0		95	.3	5.8
-4	.0	.3	1.2	2.8	1.5	.3	.1	.0	.0		96	.1	6.1
-5	.0	.3	1.1	1.9	1.0	.2	.1	.0	.0		71	.0	4.6
-6	.1	.7	.8	1.0	.6	.1	.0	.0	.0		51	.1	3.2
-7/-8	.4	.8	1.5	1.5	.4	.2	.0	.0	.0		76	.1	4.8
-9/-10	.1	.4	1.0	.9	.1	.0	.0	.0	.0		40	.0	2.6
-11/-13	.2	.3	.6	.2	.0	.0	.0	.0	.0		20	.1	1.2
-14/-16	.0	.0	.1	.1	.1	.0	.0	.0	.0		5	.0	.3
-17/-19	.0	.0	.1	.0	.0	.0	.0	.0	.0		1	.0	.1
TOTAL	13	53	186	421	522	273	74	18	2		1560	169	1391
PCT	.8	3.4	11.9	27.0	33.5	17.5	4.7	1.2	.1		100.0	10.8	89.2

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

OCTOBER

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	.0	.3	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0
1-2	.0	.8	.3	.0	.0	.0	4	.0	1.6	.3	.3	.0	.0	8
3-4	.0	.3	.8	.0	.0	.0	4	.0	.5	.8	.0	.0	.0	5
5-6	.0	.0	.5	.0	.0	.0	2	.0	.0	1.0	.0	.0	.0	4
7	.0	.0	.8	.0	.0	.0	3	.0	.0	.0	.5	.0	.0	2
8-9	.0	.0	.0	.0	.3	.0	1	.0	.0	.0	.5	.0	.0	2
10-11	.0	.0	.0	.0	.3	.0	1	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.3	.0	1	.0	.0	.0	.3	.0	.0	1
13-16	.0	.0	.0	.3	.0	.0	1	.0	.0	.0	.0	.3	.0	1
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	0	5	9	1	3	0	18	0	8	8	6	1	0	23
PCT	.0	1.3	2.4	.3	.8	.0	4.7	.0	2.1	2.1	1.6	.3	.0	6.0

HGT	E					SE								
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	.0	.3	.0	.0	.0	.0	1	.0	.8	.0	.0	.0	.0	3
1-2	.0	1.3	.3	.0	.0	.0	8	.0	2.6	.5	.0	.0	.0	12
3-4	.0	.3	1.0	.3	.0	.0	6	.0	.3	1.3	.0	.0	.0	6
5-6	.0	.3	1.3	.0	.0	.0	6	.0	.0	1.3	.3	.0	.0	6
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.8	.0	.0	4
8-9	.0	.0	.0	.3	.0	.0	1	.0	.0	.0	.0	.3	.0	1
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.0	.0	.0	1
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	.0	.0	1
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	0	8	12	2	0	0	22	0	14	14	5	1	0	34
PCT	.0	2.1	3.1	.5	.0	.0	5.8	.0	3.7	3.7	1.3	.3	.0	8.9

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

OCTOBER  
TABLE 18

AREA 001 ARGENTIA  
45-47N 53-56W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.0	.3	.0	.0	.0	.0	1	.3	.0	.3	.0	.0	.0	2		
1-2	.0	.3	1.0	.3	.0	.0	12	.3	1.8	.5	.0	.0	.0	10		
3-4	.0	1.3	.8	1.0	.0	.0	12	.0	.8	4.2	.3	.0	.0	20		
5-6	.0	.3	2.9	.8	.0	.0	15	.0	1.3	2.9	1.6	.0	.0	22		
7	.0	.0	1.8	1.0	.0	.0	11	.0	.3	1.3	1.3	.0	.0	11		
8-9	.0	.0	.3	.3	.0	.0	2	.0	.0	1.6	.8	.0	.0	9		
10-11	.0	.0	.0	.5	.0	.0	2	.0	.0	1.0	1.0	.0	.0	8		
12	.0	.0	.0	.3	.0	.0	1	.0	.0	.3	.3	.5	.0	4		
13-16	.0	.0	.3	.0	.3	.0	2	.0	.3	.0	.5	.0	.0	3		
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
TOTAL	0	14	27	16	1	0	58	2	17	46	22	2	0	89		
PCT	.0	3.7	7.1	4.2	.3	.0	15.2	.5	4.5	12.0	5.8	.5	.0	23.3		

HGT	W							NW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	8	
1-2	.3	1.8	.8	.0	.0	.0	11	.3	.3	.5	.0	.0	.0	4	69	
3-4	.0	3.1	2.4	.5	.0	.0	23	.0	1.8	2.6	.5	.0	.0	19	95	
5-6	.0	.3	4.2	1.3	.0	.0	22	.0	.3	1.3	.0	.0	.0	6	83	
7	.0	.0	3.9	2.1	.8	.0	26	.0	.0	1.3	.5	.0	.0	7	64	
8-9	.0	.0	1.0	1.0	.0	.0	8	.0	.0	.0	.0	.0	.0	0	24	
10-11	.0	.0	.8	1.6	.0	.0	9	.0	.0	.0	.0	.0	.0	0	21	
12	.0	.0	.0	.5	.0	.0	2	.0	.0	.0	.0	.0	.0	0	10	
13-16	.0	.0	.0	.0	.3	.0	1	.0	.0	.0	.0	.0	.0	0	8	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
TOTAL	1	20	50	27	4	0	102	1	9	22	4	0	0	36	382	
PCT	.3	5.2	13.1	7.1	1.0	.0	26.7	.3	2.4	5.8	1.0	.0	.0	9.4	100.0	



OCTOBER

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)							
HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	1.0	1.5	.3	.0	.0	.0	11
1-2	.8	11.9	4.7	.5	.0	.0	69
3-4	.0	8.3	13.7	2.6	.0	.0	95
5-6	.0	2.3	15.2	3.9	.0	.0	83
7	.0	.3	9.3	6.2	.8	.0	64
8-9	.0	.0	2.8	2.8	.5	.0	24
10-11	.0	.0	2.1	3.1	.3	.0	21
12	.0	.0	.3	1.6	.8	.0	10
13-16	.0	.3	.3	.8	.8	.0	8
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.3	.0	2
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	7	95	188	83	14	0	387
PCT	1.8	24.5	48.6	21.4	3.6	.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.8	9.4	12.5	7.5	2.6	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	132	3
6-7	.0	1.0	4.9	10.9	11.2	3.6	2.6	.5	.8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	138	6
8-9	.0	.5	1.0	3.6	4.9	2.3	3.1	1.6	1.6	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	8
10-11	.0	.0	.3	.5	.5	1.0	.5	.5	.8	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	17	9
12-13	.0	.0	.0	.0	.0	.5	.5	.5	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	11
>13	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	14
INDET	.8	.3	1.0	1.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	3
TOTAL	6	43	76	91	75	33	29	12	14	2	3	1	0	0	0	0	0	0	0	0	385	5
PCT	1.6	11.2	19.7	23.6	19.5	8.6	7.5	3.1	3.6	.5	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1947-1967  
(OVER-ALL) 1875-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME	FREQ
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FGG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA			
N	.3	.1	.2	.0	.1	.0	.0	11	.0	.1	.0	.0	1	102	.7		
NNE	.2	.1	.3	.0	.1	.0	.0	11	.0	.2	.0	.0	3	64	.7		
NE	.7	.1	.1	.0	.2	.0	.0	19	.0	.2	.0	.0	3	93	1.1		
ENE	.5	.1	.2	.0	.2	.0	.0	15	.0	.2	.0	.0	4	67	.9		
E	.5	.0	.5	.0	.0	.0	.0	17	.0	.6	.1	.0	11	83	1.0		
ESE	.7	.1	.3	.0	.1	.0	.0	18	.0	.3	.0	.0	5	45	1.1		
SE	.7	.1	.4	.0	.0	.0	.0	19	.0	1.1	.1	.0	20	77	1.1		
SSE	.7	.0	.4	.0	.0	.0	.0	19	.0	.7	.1	.0	14	93	1.1		
S	1.1	.1	.6	.0	.0	.1	.0	30	.0	2.3	.2	.0	42	150	1.8		
SSW	.7	.2	.4	.0	.1	.0	.0	22	.0	.8	.1	.0	15	96	1.3		
SW	.6	.1	.5	.0	.0	.0	.0	21	.0	1.2	.0	.0	20	104	1.2		
WSW	.4	.1	.2	.0	.1	.0	.1	14	.0	1.1	.1	.0	19	132	.8		
W	.7	.3	.2	.0	.5	.1	.0	29	.0	.6	.1	.0	12	207	1.7		
WNW	.2	.1	.1	.0	.3	.0	.1	13	.0	.1	.0	.0	2	160	.8		
NW	.5	.1	.1	.0	.2	.0	.1	15	.0	.1	.0	.0	1	118	.9		
NNW	.4	.1	.0	.0	.1	.0	.1	10	.0	.1	.0	.0	2	74	.6		
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	3	.0		
CALM	.0	.0	.1	.0	.0	.0	.0	1	.0	.2	.0	.0	4	15	.1		
TOT	149	25	73	0	31	2	4	284	0	166	12	0	178	1683	16.9		
PCT	8.9	1.5	4.3	.0	1.8	.1	.2	16.9	.0	9.9	.7	.0	10.6	100.0	16.9		

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME	FREQ
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FGG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA			
00003	2.5	.4	1.4	.0	.7	.0	.1	85	.0	3.1	.1	.0	53	505	5.0		
06009	2.4	.4	1.0	.0	.4	.0	.1	72	.0	1.9	.1	.0	34	396	4.3		
12015	1.8	.5	1.2	.0	.4	.0	.1	68	.0	2.2	.4	.0	43	398	4.0		
18021	2.1	.2	.7	.0	.4	.1	.0	61	.0	2.8	.2	.0	51	393	3.6		
TOT	149	25	74	0	32	2	4	286	0	169	12	0	181	1692	16.9		
PCT	8.8	1.5	4.4	.0	1.9	.1	.2	16.9	.0	10.0	.7	.0	10.7	100.0	16.9		

NOVEMBER

PERIOD: (PRIMARY) 1947-1967  
(OVER-ALL) 1875-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.3	1.8	2.7	1.4	.4	.0	137	6.5	16.7	6.7	9.4	7.0	4.0	8.1	3.8	4.6	3.3
NNE	*	.9	1.8	.7	.4	*	80	3.8	18.8	4.4	2.2	2.9	8.0	3.1	5.1	4.0	5.5
NE	.1	1.7	2.0	.8	.3	*	103	4.9	15.8	5.5	4.3	4.7	4.0	4.8	3.8	4.9	5.5
ENE	.0	.9	1.4	1.1	.2	.0	74	3.5	18.5	3.0	2.2	6.5	4.0	2.8	2.5	3.2	1.1
E	.1	1.1	1.6	1.3	.4	.0	95	4.5	18.0	3.8	3.6	3.4	6.7	5.0	5.1	5.4	6.6
ESE	*	.9	1.2	.7	*	.0	60	2.9	16.7	3.2	1.4	1.3	4.0	2.8	3.8	3.7	4.4
SE	*	1.0	1.6	1.1	.4	*	87	4.1	19.9	3.4	5.0	2.6	1.3	6.6	2.5	4.3	4.4
SSE	*	1.3	1.9	1.3	.2	*	101	4.8	17.6	4.2	6.5	5.2	4.0	3.7	6.3	5.4	6.6
S	.2	2.0	3.0	2.5	.4	*	174	8.3	17.9	7.8	12.2	6.2	5.3	9.0	11.4	9.5	5.5
SSW	.1	1.3	2.6	1.5	.1	.1	121	5.8	17.3	5.3	2.9	7.0	9.3	5.0	8.9	4.6	9.9
SW	.2	1.6	3.0	.9	.3	.1	128	6.1	16.4	6.1	2.9	7.5	9.3	4.2	5.1	6.9	9.9
WSW	.1	1.9	3.3	2.0	.5	*	165	7.9	17.7	6.8	7.9	7.0	8.0	7.9	8.9	9.7	8.8
W	.2	2.6	4.1	4.5	.9	.1	260	12.4	19.6	12.2	15.8	13.8	9.3	11.4	15.2	12.3	7.7
WNW	*	2.4	4.0	3.0	.8	.1	220	10.5	19.7	11.8	8.6	11.2	9.3	9.4	10.1	9.7	12.1
NW	.1	1.8	3.2	2.5	.5	*	171	8.1	18.8	8.4	9.4	7.5	5.3	10.7	2.5	8.0	2.2
NNW	.1	.9	2.6	1.2	.1	*	105	5.0	18.3	6.7	5.0	4.2	8.0	4.6	5.1	2.9	6.6
VAR	*	.1	.0	.0	.0	.0	3	.1	4.0	.0	.7	.5	.0	.0	.0	.0	.0
CALM	.8						17	.8	.0	.8	.0	1.6	.0	.9	.0	.9	.0
TOT	57	506	841	557	123	17	2101	100.0	18.0	526	139	385	75	457	79	349	91
PCT	2.7	24.1	40.0	26.5	5.9	.8	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	1.0	4.4	3.3	1.4	.2	217	10.3	17.5	11.0	11.5	9.9	12.0	11.2	8.9	8.6	8.8
NE	.9	3.6	2.8	1.1	*	177	8.4	16.9	8.6	6.5	11.2	8.0	7.7	6.3	8.0	6.6
E	1.1	2.4	2.7	1.0	*	155	7.4	17.5	7.0	5.0	4.7	10.7	7.9	8.9	9.2	11.0
SE	.7	3.2	3.5	1.2	.3	188	8.9	18.7	7.6	11.5	7.8	5.3	10.3	8.9	9.7	11.0
S	1.6	5.2	5.3	1.7	.2	295	14.0	17.7	13.1	15.1	13.2	14.7	14.0	20.3	14.0	15.4
SW	1.4	6.4	4.3	1.6	.2	293	13.9	17.1	12.9	10.8	14.5	17.3	12.0	13.9	16.6	18.7
W	2.1	7.9	7.5	4.3	.6	480	22.8	19.6	24.0	24.5	24.9	18.7	20.8	25.3	22.1	19.8
NW	.9	4.4	6.0	1.4	.4	276	13.1	18.6	15.0	14.4	11.7	13.3	15.3	7.6	10.9	8.8
VAR	.1	.0	.0	.0	.0	3	.1	4.0	.0	.7	.5	.0	.0	.0	.0	.0
CALM	.8					17	.8	.0	.8	.0	1.6	.0	.9	.0	.9	.0
TOT	223	787	746	300	45	2101	100.0	18.0	526	139	385	75	457	79	349	91
PCT	10.6	37.5	35.5	14.3	2.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1947-1967  
(OVER-ALL) 1875-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	.7	7.7	12.8	8.5	1.5	.3	*	.2	17.7	31.7	665
06&09	.4	5.1	9.4	5.0	1.1	.3	.1	.3	17.6	21.9	460
12&15	.6	6.7	9.4	7.4	1.1	.2	.0	.2	17.8	25.5	536
18&21	.1	4.5	8.4	5.6	2.1	.0	.0	.1	19.3	20.9	440
TOT	.39	50.4	84.1	55.7	12.3	.17	.3	.17	18.0		2101
PCT	1.9	24.0	40.0	26.5	5.9	.8	.1	.8		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION					MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBS	TOTAL OBS	
N	1.0	1.0	1.7	2.9	98	5.9
NNE	.4	.4	1.0	2.1	58	6.4
NE	.4	.3	.9	3.6	78	6.9
ENE	.3	.1	.7	2.8	58	7.0
E	.3	.1	1.2	3.2	73	7.1
ESE	.1	.2	.3	1.7	35	7.3
SE	.1	.2	.7	3.3	63	7.4
SSE	.5	.3	1.2	3.1	76	6.6
S	.5	.5	1.7	5.7	126	7.1
SSW	.5	.4	1.1	3.4	79	6.7
SW	.5	.6	1.5	3.3	88	6.5
WSW	1.3	.4	1.7	4.2	114	6.1
W	1.6	1.1	4.6	5.0	183	6.0
WNW	2.5	1.5	3.4	3.3	155	5.3
NW	1.9	.8	2.5	2.6	116	5.2
NNW	.7	.4	1.4	2.6	76	6.4
VAR	.1	.1	.0	.0	3	1.7
CALM	.1	.0	.1	.5	11	6.1
TOT	189	126	384	791	1490	6.3
PCT	12.7	8.5	25.8	53.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION											NH <5/8 ANY HGT	TOTAL OBS			
	000	150	300	600	1000	2000	3500	5000	6500	8000+						
	149	299	599	999	1999	3499	4999	6499	7999							
N	.1	.0	.3	.9	1.5	.9	.1	.3	.0	.0	.0	.0	.0	2.5	98	
NNE	.2	.1	.2	.3	.9	1.0	.1	.0	.0	.0	.0	.0	.0	1.1	58	
NE	.3	.0	.1	.8	1.6	.9	.4	.1	.0	.0	.0	.0	.0	1.1	78	
ENE	.1	.1	.3	.3	1.1	.7	.3	.0	.1	.1	.8	.5	.8	58		
E	.3	.0	.4	.4	1.7	.7	.4	.2	.0	.0	.8	.8	.8	73		
ESE	.1	.1	.1	.3	.7	.1	.2	.3	.0	.1	.5	.5	.5	35		
SE	1.1	.1	.1	.9	.7	.5	.1	.1	.1	.1	.7	.7	.7	63		
SSE	.6	.0	.0	.7	.9	.7	.3	.0	.1	.1	1.6	1.6	1.6	76		
S	2.2	.3	.3	.6	1.1	1.1	.3	.1	.3	.3	1.9	1.9	1.9	126		
SSW	.3	.2	.3	.3	1.1	1.1	.2	.1	.0	.2	1.5	1.5	1.5	79		
SW	.9	.1	.1	.5	.9	1.0	.3	.1	.1	.2	1.7	1.7	1.7	88		
WSW	.7	.0	.3	.5	1.5	1.5	.1	.1	.1	.1	2.8	2.8	2.8	114		
W	.2	.0	.3	1.2	2.8	2.4	.2	.3	.1	.3	4.5	4.5	4.5	183		
WNW	.1	.0	.3	.9	2.1	1.7	.3	.1	.1	.0	5.0	5.0	5.0	155		
NW	.1	.0	.1	.9	1.8	1.2	.3	.1	.0	.0	3.3	3.3	3.3	116		
NNW	.2	.1	.1	.4	1.3	.8	.4	.1	.1	.0	1.6	1.6	1.6	76		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	3		
CALM	.2	.0	.1	.1	.1	.1	.0	.0	.0	.0	.2	.2	.2	11		
TOT	112	13	50	151	325	245	62	24	17	20	471	471	471	1490		
PCT	7.5	.9	3.4	10.1	21.8	16.4	4.2	1.6	1.1	1.3	31.6	31.6	31.6	100.0		

NOVEMBER

PERIOD: (PRIMARY) 1947-1967  
(OVER-ALL) 1875-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	1.3	2.3	2.3	2.3	2.3	2.4	2.5
= OR >5000	2.6	3.8	3.9	3.9	3.9	4.0	4.1
= OR >3500	5.3	7.9	7.9	7.9	8.0	8.1	8.2
= OR >2000	14.3	23.1	24.1	24.5	24.6	24.7	24.9
= OR >1000	25.1	42.0	44.8	46.1	46.2	46.6	46.8
= OR >600	29.9	49.8	54.2	55.9	56.4	56.8	57.0
= OR >300	31.4	51.8	57.0	58.8	59.6	60.1	60.3
= OR >150	31.4	52.1	57.7	59.7	60.5	61.0	61.2
= OR > 0	31.7	52.8	58.8	61.2	63.1	68.2	68.7
TOTAL	477	793	884	920	948	1025	1032

TOTAL NUMBER OF OBS: 1503

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.4	4.0	10.0	5.4	4.6	5.3	10.0	7.9	36.2	7.2	1743

NOVEMBER

PERIOD: (PRIMARY) 1947-1967  
(OVER-ALL) 1875-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.0	.1	.1	.1	.0	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	.7
	NO PCP	.0	.1	.1	.0	.3	.0	.9	.5	1.6	.2	.8	.4	.1	.0	.1	.1	.0	.2	73	5.3
	TOTAL	0	2	2	1	4	0	12	8	28	3	11	5	1	0	1	2	0	3	83	6.0
1/2<1	PCP	.1	.0	.0	.1	.1	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.1	.0	.0	8	.6
	NO PCP	.0	.0	.1	.1	.1	.0	.2	.1	.4	.1	.1	.1	.1	.1	.0	.0	.0	.1	21	1.5
	TOTAL	1	0	1	2	2	0	5	2	5	2	2	2	2	1	0	1	0	1	29	2.1
1<2	PCP	.0	.1	.2	.0	.1	.1	.0	.0	.4	.1	.1	.1	.1	.1	.0	.0	.0	.0	19	1.4
	NO PCP	.0	.1	.0	.0	.1	.1	.1	.1	.2	.1	.0	.2	.1	.0	.0	.0	.0	.0	17	1.2
	TOTAL	0	2	3	0	3	3	2	1	8	4	2	4	3	1	0	0	0	0	36	2.6
2<5	PCP	.1	.1	.4	.3	.2	.2	.4	.4	.4	.3	.2	.2	.2	.1	.1	.1	.0	.0	53	3.8
	NO PCP	.1	.1	.2	.1	.3	.1	.4	.1	.4	.4	.4	.3	.4	.0	.1	.0	.0	.1	45	3.3
	TOTAL	3	2	9	6	7	4	11	6	12	9	8	7	8	1	3	1	0	1	98	7.1
5<10	PCP	.1	.1	.4	.2	.4	.4	.4	.6	.4	.7	.5	.6	.9	.4	.5	.3	.0	.0	94	6.8
	NO PCP	1.3	.9	1.0	1.2	1.8	.4	.7	1.3	1.9	1.9	1.2	1.7	3.1	2.0	1.3	.7	.0	.0	310	22.4
	TOTAL	20	13	19	20	31	11	15	26	32	36	24	32	55	32	25	13	0	0	404	29.2
10<20	PCP	.1	.2	.1	.1	.1	.1	.1	.1	.1	.0	.3	.0	.4	.1	.1	.1	.0	.0	29	2.1
	NO PCP	4.1	2.1	3.1	2.0	1.6	1.1	1.2	2.4	2.5	1.7	2.1	4.3	7.3	6.9	4.8	3.2	.2	.4	705	50.9
	TOTAL	58	32	44	29	23	16	18	34	37	23	33	60	106	97	69	46	3	6	734	53.0
TOTAL	82	51	78	58	70	34	63	77	122	77	80	110	175	132	98	63	3	11	1384	100.0	
PCT	5.9	3.7	5.6	4.2	5.1	2.5	4.6	5.6	8.8	5.6	5.8	7.9	12.6	9.5	7.1	4.6	.2	.8	100.0		

NOVEMBER

PERIOD: (PRIMARY) 1947-1967  
(OVER-ALL) 1875-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	4	.3
<1/2	4-10	.0	.0	.0	.0	.1	.0	.3	.1	.1	.0	.3	.1	.1	.0	.1	.0	.0	.0		16	1.1
	11-21	.0	.0	.1	.0	.1	.0	.3	.3	.9	.1	.4	.2	.1	.0	.0	.1	.0	.0		39	2.6
	22<	.0	.1	.1	.1	.0	.0	.2	.1	.9	.1	.1	.0	.0	.0	.0	.0	.0	.0		25	1.7
	TOTAL	0	2	2	1	4	0	12	8	28	3	11	5	2	0	1	2	0	0	3	84	5.6
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
1/2<1	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0		5	.3
	11-21	.0	.0	.1	.1	.1	.0	.2	.1	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0		14	.9
	22<	.0	.0	.0	.1	.0	.0	.1	.1	.1	.1	.0	.0	.0	.1	.0	.1	.0	.0		9	.6
	TOTAL	1	0	1	2	2	0	5	2	5	2	2	2	2	1	0	1	0	0	1	29	1.9
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
1<2	4-10	.0	.0	.1	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0		4	.3
	11-21	.0	.1	.1	.0	.1	.1	.0	.1	.1	.2	.1	.1	.2	.0	.0	.0	.0	.0		18	1.2
	22<	.0	.1	.1	.0	.1	.0	.1	.0	.3	.1	.0	.1	.0	.1	.0	.0	.0	.0		14	.9
	TOTAL	0	2	3	0	3	3	2	1	8	4	2	4	3	1	0	0	0	0	0	36	2.4
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	2	.1
2<5	4-10	.0	.0	.1	.1	.0	.0	.1	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0		7	.5
	11-21	.2	.0	.3	.1	.2	.1	.4	.1	.3	.1	.3	.1	.1	.0	.1	.0	.0	.0		41	2.7
	22<	.1	.1	.2	.2	.3	.1	.3	.2	.5	.4	.2	.3	.4	.1	.1	.0	.0	.0		51	3.4
	TOTAL	4	2	9	6	7	4	11	7	13	9	8	7	8	1	3	1	0	0	1	101	6.7
	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
5<10	4-10	.3	.0	.3	.1	.3	.1	.1	.1	.4	.3	.2	.5	.7	.3	.5	.1	.0	.0		63	4.2
	11-21	.6	.4	.7	.7	.6	.3	.3	.7	1.1	1.3	1.1	.3	1.1	1.0	.7	.4	.0	.0		171	11.4
	22<	.5	.5	.3	.6	1.3	.5	.7	.9	.7	.9	.3	1.3	1.8	1.1	.8	.6	.0	.0		193	12.8
	TOTAL	21	13	19	20	34	14	15	26	33	38	25	33	55	37	30	16	0	0	0	429	28.5
	0-3	.3	.0	.1	.0	.0	.0	.1	.1	.1	.1	.1	.2	.1	.1	.0	.0	.1	.1	.4	24	1.6
10<	4-10	1.0	.3	1.0	.4	.5	.4	.4	.6	.7	.3	.6	.9	1.2	1.0	.5	.1	.0	.0		155	10.3
	11-21	2.4	1.8	1.4	1.2	.9	.7	.7	1.2	1.3	.9	1.5	2.2	2.9	3.7	2.5	2.5	.0	.0		417	27.7
	22<	1.1	.5	.5	.3	.3	.3	.2	.4	.5	.3	.4	1.4	3.7	2.8	2.0	.7	.0	.0		228	15.2
	TOTAL	71	38	46	29	25	21	20	34	37	23	39	63	114	116	83	56	3	6	6	824	54.8
	TOTAL	97	57	80	58	75	42	65	78	124	79	87	114	184	156	117	76	3	11	1503	100.0	
	PCT	6.5	3.8	5.3	3.9	5.0	2.8	4.3	5.2	8.3	5.3	5.8	7.6	12.2	10.4	7.8	5.1	.2	.7	100.0		

NOVEMBER

PERIOD: (PRIMARY) 1947-1967  
(OVER-ALL) 1875-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	2.3	.2	1.2	1.8	5.4	4.6	1.0	.4	.4	.4	287	11.8	478
06009	1.5	.3	.9	2.0	4.6	3.8	1.0	.3	.2	.3	243	9.1	391
12015	1.5	.1	.7	3.1	4.4	3.6	.7	.4	.2	.2	240	7.0	354
18021	1.8	.1	.4	2.5	6.0	3.5	1.2	.4	.3	.3	269	7.9	397
TOT PCT	115 7.1	13 .8	51 3.1	153 9.4	332 20.5	252 15.6	62 3.8	24 1.5	17 1.0	20 1.2	1039 64.1	581 35.9	1620 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.7	.7	.9	1.6	9.7	14.8	445
06009	1.3	.3	.2	1.4	6.9	14.0	365
12015	1.3	.5	.5	1.9	5.1	12.6	332
18021	1.5	.4	.7	1.8	6.7	13.4	370
TOT PCT	86 5.7	29 1.9	36 2.4	101 6.7	430 28.4	830 54.9	1512 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ &OR5+	NH <5/8 ANY HGT	TOTAL OBS
00003	.2	2.2	3.6	15.3	10.5	445
06009	.1	1.3	2.0	14.1	8.1	365
12015	.1	1.5	2.7	13.1	6.2	332
18021	.0	1.5	2.8	14.9	6.7	370
TOT PCT	.5 .3	97 6.4	76 5.0	868 57.4	476 31.5	1512 100.0



NOVEMBER

PERIOD: (PRIMARY) 1947-1967  
(OVER-ALL) 1975-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
60/64	.1	.0	.0	.1	.1	.0	.0	.0	3	.2
55/59	.1	.0	.0	.0	.1	.0	.5	1.2	31	2.0
50/54	.0	.1	.0	.0	.7	.5	2.0	5.9	138	9.1
45/49	.0	.1	.1	.3	2.0	5.0	7.2	14.7	444	29.3
40/44	.0	.0	.0	.5	4.8	8.2	11.4	11.3	549	36.3
35/39	.0	.0	.1	.7	3.6	4.3	5.5	3.7	270	17.8
30/34	.0	.0	.0	.1	1.3	1.0	.8	1.7	74	4.9
25/29	.0	.0	.0	.0	.0	.1	.0	.3	5	.3
TOTAL	2	2	2	25	190	288	416	589	1514	100.0
PCT	.1	.1	.1	1.7	12.5	19.0	27.5	38.9		

TABLE 14

N	NE	E	SE	S	SW	W	NW	VAR	CALM	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP							
										0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100
.0	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0			
.1	.0	.1	.3	1.3	.3	.1	.0	.0	.0	.0	.1	.0	.0	.0			
.2	.2	.5	1.8	4.2	1.3	.5	.2	.0	.1	.0	.1	.0	.0	.1			
1.8	2.1	2.7	4.1	5.7	5.5	5.5	1.6	.0	.2	.0	.1	.0	.2	.2			
4.9	3.3	3.3	1.8	2.8	4.6	9.6	5.6	.0	.3	.0	.1	.0	.3	.3			
2.8	2.2	1.1	.7	.7	1.6	5.5	3.3	.0	.1	.0	.1	.0	.1	.1			
.3	.1	.2	.1	.0	.3	2.2	1.6	.1	.0	.0	.1	.0	.0	.0			
.1	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.1	.0	.0	.0			
154	121	120	134	222	205	359	187	2	10	2	10	2	10	10			
10.2	8.0	7.9	8.9	14.7	13.5	23.7	12.4	.1	.7	.1	.7	.1	.7	.7			

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR								
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	67	56	51	43	34	30	26	42.5	663
06&09	59	57	53	44	35	30	28	42.9	462
12&15	64	60	55	44	32	27	26	43.2	531
18&21	67	56	53	44	35	30	28	43.7	437
TOT	67	55	51	41	32	28	26	43.0	2093

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR							MEAN	TOTAL OBS
	0-29	30-39	40-49	50-59	60-69	70-79	80-89		
00&03	.1	.7	3.5	6.2	8.1	11.9	84	467	
06&09	.0	.7	2.9	4.2	7.0	9.4	84	370	
12&15	.1	.3	3.0	4.7	5.9	9.2	84	355	
18&21	.0	.5	3.1	3.9	6.3	8.3	84	338	
TOT	3	32	192	291	419	593	84	1530	

PERIOD: (PRIMARY) 1947-1967  
(OVER-ALL) 1875-1967

NOVEMBER

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25	33	37	41	45	49	53	57	61	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.3	.2	.1	9	.2	.4
9/10	.0	.0	.0	.1	.0	.2	.4	.3	.1	15	.3	.7
7/8	.0	.0	.0	.0	.0	1.2	1.2	.7	.1	50	1.0	2.3
6	.0	.0	.0	.1	.3	1.2	.7	.7	.0	47	.9	2.2
5	.0	.0	.0	.1	.5	1.6	1.0	.5	.0	56	1.2	2.5
4	.0	.0	.0	.0	1.2	1.9	1.4	.4	.1	76	1.3	3.7
3	.0	.0	.0	.3	1.6	2.6	1.2	.4	.0	93	1.0	5.1
2	.0	.0	.0	.5	1.5	2.7	.9	.2	.2	90	.6	5.3
1	.0	.0	.1	1.0	2.8	3.0	.5	.1	.0	114	.6	6.9
0	.0	.0	.2	2.0	4.4	4.3	.9	.3	.0	184	1.4	10.7
-1	.0	.0	.0	2.0	4.1	1.9	.7	.0	.0	132	.5	8.2
-2	.0	.1	.3	3.3	3.1	1.5	.4	.0	.1	134	.3	8.5
-3	.0	.0	.9	1.8	2.7	1.4	.2	.1	.1	109	.5	6.7
-4	.0	.0	.9	2.0	2.3	.1	.2	.0	.0	85	.0	5.6
-5	.0	.1	1.4	2.6	1.6	.7	.1	.0	.0	101	.1	6.5
-6	.0	.3	.8	1.9	1.0	.1	.1	.0	.0	64	.0	4.2
-7/-8	.1	.6	2.1	2.1	.5	.1	.0	.0	.0	85	.0	5.6
-9/-10	.1	.7	1.1	.7	.1	.0	.0	.0	.0	41	.0	2.7
-11/-13	.0	.4	.7	.5	.1	.1	.0	.0	.0	28	.0	1.8
-14/-16	.0	.3	.1	.1	.1	.0	.0	.0	.0	8	.0	.5
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	3	40	131	323	427	377	156	57	10	1524	151	1373
PCT	.2	2.6	8.6	21.2	28.0	24.7	10.2	3.7	.7	100.0	9.9	90.1

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

NOVEMBER

TABLE 18

AREA 001 ARGENTIA  
45-47N 53-56W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						TOTAL	NE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.0	.3	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0
1-2	.0	.3	.5	.0	.0	.0	3	.0	1.3	.3	.0	.0	.0	6
3-4	.3	.5	1.1	.3	.0	.0	8	.3	.5	3.2	.3	.3	.0	17
5-6	.0	.0	1.3	.3	.3	.0	7	.0	.5	1.3	.5	.0	.0	9
7	.0	.0	.8	.0	.3	.0	4	.0	.0	1.1	.5	.0	.0	6
8-9	.0	.0	.0	.0	.3	.0	1	.0	.0	.0	.3	.3	.0	2
10-11	.0	.0	.3	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.3	.0	.0	1	.0	.0	.0	.3	.8	.0	4
13-16	.0	.0	.0	.3	.0	.0	1	.0	.0	.0	.0	.3	.0	1
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	4	15	4	3	0	27	1	9	22	7	6	0	45
PCT	.3	1.1	4.0	1.1	.8	.0	7.2	.3	2.4	5.9	1.9	1.6	.0	12.0

HGT	E						TOTAL	SE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.3	.3	.0	.0	.0	.0	2	.0	.3	.0	.0	.0	.0	1
1-2	.0	.5	.8	.0	.0	.0	5	.0	1.6	.3	.0	.0	.0	7
3-4	.0	.5	1.6	.0	.0	.0	8	.0	.3	.5	.3	.0	.0	4
5-6	.0	.0	.8	.8	.0	.0	6	.0	.3	1.9	.5	.0	.0	10
7	.0	.0	.0	.8	.3	.0	4	.0	.0	.3	1.1	.0	.0	5
8-9	.0	.0	.0	.3	.0	.0	1	.0	.0	.3	.8	.0	.0	4
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	1.1	.0	.0	4
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	.0	.0	1
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.8	.0	3
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	5	12	7	1	0	26	0	9	12	15	3	0	39
PCT	.3	1.3	3.2	1.9	.3	.0	7.0	.0	2.4	3.2	4.0	.8	.0	10.4

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

NOVEMBER

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+		
<1	.0	.8	.3	.0	.0	.0	4	.0	.8	.0	.0	.0	.0	.0	
1-2	.0	1.3	.0	.0	.0	.0	5	.0	1.6	.5	.0	.0	.0	.0	
3-4	.0	1.1	1.6	.0	.0	.0	10	.0	1.3	1.6	.0	.0	.0	.0	
5-6	.0	1.1	2.7	.8	.0	.0	17	.0	.0	1.3	.3	.0	.0	.0	
7	.0	.0	2.1	1.3	.3	.0	14	.0	.0	.8	.0	.5	.0	.0	
8-9	.0	.0	.0	.5	.0	.0	2	.0	.0	.3	.8	.3	.0	.0	
10-11	.0	.0	.0	.8	.0	.0	3	.0	.0	.5	.0	.0	.3	.0	
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.5	.0	.0	.0	
13-16	.0	.0	.0	.3	.0	.0	1	.0	.0	.0	.0	.3	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	
TOTAL	.0	16	25	17	1	.0	56	.0	14	19	6	4	1	44	
PCT	.0	4.3	6.7	3.7	.3	.0	15.0	.0	3.7	5.1	1.6	1.1	.3	11.8	

HGT	W							NW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+			
<1	.0	1.1	.0	.0	.0	.0	4	.0	.0	.0	.0	.0	.0	.0	0	15
1-2	.3	.8	.3	.0	.0	.0	5	.0	.3	1.1	.0	.0	.0	.0	5	44
3-4	.0	1.1	5.3	.8	.0	.0	27	.0	1.3	.5	.0	.0	.0	.0	7	92
5-6	.0	.3	2.9	1.6	.0	.0	18	.0	.0	1.1	.8	.0	.0	.0	7	80
7	.0	.0	2.7	2.9	.3	.0	22	.0	.0	.5	.5	.0	.0	.0	4	64
8-9	.0	.0	.8	.8	.3	.0	7	.0	.0	.5	1.9	.0	.0	.0	9	31
10-11	.0	.0	.3	1.1	.5	.0	7	.0	.0	.0	.0	.3	.0	.0	1	19
12	.0	.0	.0	.3	.0	.0	1	.0	.0	.0	.0	.0	.0	.0	0	9
13-16	.0	.0	.0	.8	.5	.0	5	.0	.0	.0	.5	.3	.0	.0	3	15
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
20-22	.0	.0	.0	.0	.5	.3	4	.0	.0	.0	.0	.0	.0	.0	0	4
23-25	.0	.0	.0	.0	.3	.0	1	.0	.0	.0	.0	.0	.0	.0	0	1
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	1	12	46	31	9	2	101	0	6	14	14	5	0	36	374	
PCT	.3	3.2	12.3	8.3	2.4	.5	27.0	.0	1.6	3.7	3.7	.5	.0	9.6	100.0	

NOVEMBER

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

TABLE 18 (CONT)

AREA 001 ARGENTIA  
45-47N 53-56W

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	.5	3.5	.3	.0	.0	.0	16
1-2	.3	7.7	3.7	.0	.0	.0	44
3-4	.5	6.6	15.4	1.6	.3	.0	92
5-6	.0	2.1	13.3	5.6	.3	.0	80
7	.0	.0	8.2	7.2	1.6	.0	64
8-9	.0	.0	1.9	5.3	1.1	.0	31
10-11	.0	.0	1.1	2.9	.8	.3	19
12	.0	.0	.0	1.6	.8	.0	9
13-16	.0	.0	.0	1.9	2.1	.0	15
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.5	.5	4
23-25	.0	.0	.0	.0	.3	.0	1
26-32	.0	.0	.0	.0	.3	.0	1
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	5	75	165	98	30	3	376
PCT	1.3	19.9	43.9	26.1	8.0	.8	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.3	6.1	12.8	10.2	3.7	.8	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	128	4
6-7	.0	.3	5.3	8.3	10.7	4.8	3.2	1.1	1.6	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	134	6
8-9	.0	.3	.3	2.1	2.7	4.0	2.4	1.1	1.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	55	8
10-11	.0	.3	.5	.3	.5	.8	.8	.8	2.7	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	27	10
12-13	.0	.0	.0	.0	.0	.3	.3	.5	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	7	14
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	1	28
INDET	1.9	.5	.3	1.1	1.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	3
TOTAL	8	28	72	82	71	43	25	13	23	0	7	1	1	0	0	0	0	0	0	374	6
PCT	2.1	7.5	19.3	21.9	19.0	11.5	6.7	3.5	6.1	.0	1.9	.3	.3	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1948-1967  
(OVER-ALL) 1875-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME	FREQ
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA			
N	.1	.0	.0	.0	.6	.0	.0	.0	.1	.1	.0	.0	3	93	.7		
NNE	.1	.1	.1	.0	.8	.1	.1	.0	.1	.1	.0	.0	3	54	1.2		
NE	.1	.0	.1	.0	.4	.1	.0	.1	.0	.2	.0	.0	3	58	.7		
ENE	.3	.0	.1	.0	.3	.0	.1	.1	.0	.1	.0	.0	2	40	.7		
E	1.2	.1	.1	.0	.7	.0	.2	.0	.0	.4	.1	.0	8	77	2.2		
ESE	.7	.1	.1	.0	.2	.0	.0	.0	.0	.1	.0	.0	2	45	1.0		
SE	.8	.0	.2	.1	.4	.0	.0	.0	.0	.7	.1	.0	13	94	1.5		
SSE	.8	.1	.2	.0	.0	.0	.0	.0	.1	.2	.1	.0	7	59	1.1		
S	.9	.1	.2	.0	.1	.0	.0	.0	1.0	.1	.1	.0	18	92	1.3		
SSW	.7	.0	.5	.0	.2	.0	.0	.0	.0	.6	.0	.0	10	75	1.4		
SW	.4	.1	.1	.0	.3	.0	.0	.0	.0	.6	.1	.0	11	112	.8		
WSW	.1	.2	.1	.0	1.4	.0	.1	.1	.1	.2	.1	.0	6	150	1.8		
W	.4	.4	.0	.0	2.9	.0	.1	.0	.0	.4	.0	.0	6	283	3.7		
WNW	.2	.1	.0	.0	1.5	.0	.1	.0	.0	.2	.0	.0	3	165	1.9		
NW	.2	.0	.1	.0	1.0	.0	.0	.0	.0	.1	.0	.0	1	111	1.4		
NNW	.2	.0	.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	0	101	1.0		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	.0		
CALM	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	12	.1		
TOT	117	17	31	1	187	2	8	363	2	84	10	0	96	1621			
PCT	7.2	1.0	1.9	.1	11.5	.1	.5	22.4	.1	5.2	.6	.0	5.9	100.0	22.4		

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME	FREQ
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA			
0003	2.8	.3	.6	.0	2.8	.0	.1	107	.1	1.3	.2	.0	28	451	6.6		
0609	1.7	.2	.3	.1	2.1	.0	.2	75	.0	1.3	.0	.0	21	362	4.6		
1205	.9	.3	.6	.0	3.1	.1	.1	83	.0	1.2	.2	.0	22	386	5.1		
1802	1.8	.2	.5	.0	3.4	.0	.1	99	.0	1.3	.2	.0	25	431	6.1		
TOT	117	17	31	1	188	2	8	364	2	84	10	0	96	1630			
PCT	7.2	1.0	1.9	.1	11.5	.1	.5	22.3	.1	5.2	.6	.0	5.9	100.0	22.3		

DECEMBER

PERIOD: (PRIMARY) 1948-1967  
(OVER-ALL) 1875-1967

TABLE 3

AREA 001 ARGENTIA  
45-47N 52-50W

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.2	1.2	2.3	1.4	.4	.0	103	5.5	18.4	5.2	6.0	6.1	8.1	5.0	5.8	4.9	7.1
NNE	.0	.8	1.0	1.0	.3	.1	59	3.1	19.4	3.7	.0	2.5	1.6	4.1	4.3	3.3	.0
NE	.1	.8	1.3	1.2	.0	.0	65	3.5	17.4	2.8	2.4	2.8	4.8	3.6	1.4	4.9	4.3
ENE	.1	.7	1.1	.4	.1	.0	46	2.5	15.6	2.6	3.6	1.2	4.8	2.6	2.9	2.1	4.3
E	.1	.6	2.3	1.1	.3	.0	82	4.4	19.2	4.1	4.8	5.2	1.6	3.1	2.9	4.6	11.4
ESE	.0	.7	1.4	.4	.2	.0	51	2.7	17.1	2.0	3.6	3.1	3.2	2.9	2.9	2.8	2.9
SE	.1	1.4	2.1	1.5	.3	.0	101	5.4	17.2	6.1	6.0	5.5	9.7	5.8	1.4	4.6	1.4
SSE	.1	.7	1.5	.9	.3	.1	69	3.7	19.5	5.0	1.2	2.5	3.2	3.1	7.2	3.3	5.7
S	.1	1.3	2.2	1.4	.5	.0	104	5.5	18.9	6.3	6.0	7.1	.0	5.0	7.2	4.4	5.7
SSW	.1	1.3	2.1	1.0	.1	.0	86	4.6	16.5	4.1	7.1	3.4	3.2	6.2	5.8	3.3	7.1
SW	.2	1.5	3.2	1.6	.4	.0	131	7.0	17.5	6.5	14.3	6.7	8.1	6.7	4.3	6.4	8.6
WSW	.1	1.1	3.6	3.0	1.4	.2	174	9.3	22.8	10.7	9.5	9.2	9.7	8.2	5.8	10.0	5.7
W	.2	1.9	5.2	7.0	2.9	.3	327	17.4	24.1	16.1	14.3	18.1	19.4	18.0	23.2	17.7	14.3
WNW	.2	1.5	3.8	3.5	1.8	.2	205	10.9	22.2	10.0	11.9	9.5	14.5	12.7	4.3	11.3	12.9
NW	.0	1.2	3.7	1.7	.6	.0	136	7.2	19.0	7.8	3.6	7.7	3.2	6.7	7.2	8.7	4.3
NNW	.3	1.2	3.1	1.1	.7	.1	122	6.5	18.4	6.5	4.8	7.4	4.8	5.8	11.6	6.7	4.3
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9	.0	.0	.0	.0	.0	16	.9	.0	.4	1.2	2.1	.0	.5	1.4	.8	.0
TOT	49	339	749	929	195	16	1877	100.0	19.9	460	84	326	62	417	69	389	70
PCT	2.6	18.1	39.9	28.2	10.4	.9	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	.9	3.1	2.8	1.7	.2	162	9.6	18.7	8.9	6.0	8.6	9.7	9.1	10.1	8.2	7.1
NE	.8	2.1	2.3	.7	.0	111	5.9	16.7	5.4	6.0	4.0	9.7	6.2	4.3	6.9	8.6
E	.4	3.3	2.2	1.0	.2	133	7.1	18.4	6.1	8.3	8.3	4.8	6.0	5.8	7.5	14.3
SE	1.0	3.7	2.9	1.3	.2	170	9.1	18.1	11.1	7.1	8.0	12.9	8.9	8.7	8.0	7.1
S	1.0	3.7	4.0	1.3	.1	190	10.1	17.8	10.4	13.1	10.4	3.2	11.3	13.0	7.7	12.9
SW	1.0	6.8	5.9	2.8	.8	305	16.2	20.5	17.2	23.8	16.0	17.7	14.9	10.1	16.5	14.3
W	1.1	6.8	10.7	8.1	1.7	532	28.3	23.4	26.1	26.2	27.6	33.9	30.7	27.5	29.0	27.1
NW	1.1	4.8	5.5	2.0	.3	258	13.7	18.7	14.3	8.3	15.0	8.1	12.5	18.8	13.4	8.6
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9	.0	.0	.0	.0	16	.9	.0	.4	1.2	2.1	.0	.5	1.4	.8	.0
TOT	150	626	683	353	65	1877	100.0	19.9	460	84	326	62	417	69	389	70
PCT	8.0	33.4	36.4	18.8	3.5	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1948-1967  
(OVER-ALL) 1875-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00603	.3	5.4	11.2	9.4	2.3	.1	.0	.2	19.8	29.0	544
06609	.4	3.2	9.1	5.5	2.0	.1	.0	.4	19.5	20.7	388
12615	.8	5.1	10.0	6.7	2.8	.3	.0	.2	19.5	25.9	486
18621	.2	4.3	9.6	6.6	3.2	.3	.0	.2	20.7	24.5	459
TOT	.33	3.39	7.49	5.29	1.95	.16	.0	.16	19.9		1877
PCT	1.8	18.1	39.9	28.2	10.4	.9	.0	.9		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION					TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD			
N	.7	.5	1.8	2.9	80	6.3	
NNE	.0	.1	.7	2.1	41	7.4	
NE	.4	.2	.7	2.6	52	6.9	
ENE	.4	.0	.1	2.0	35	6.6	
E	.1	.2	.6	3.4	59	7.3	
ESE	.0	.1	.5	2.1	37	7.6	
SE	.4	.3	.7	4.1	74	7.1	
SSE	.3	.1	.4	3.0	52	7.2	
S	.5	.1	1.0	3.6	71	6.8	
SSW	.3	.1	.5	3.0	54	7.1	
SW	1.2	.7	1.2	4.0	98	6.0	
WSW	1.1	1.2	3.1	4.2	131	6.1	
W	1.4	1.8	7.4	7.6	248	6.3	
WNW	1.1	.9	4.0	4.3	141	6.3	
NW	.4	.9	2.9	2.6	92	6.2	
NNW	.7	.9	1.7	3.1	87	6.3	
VAR	.0	.0	.0	.0	0	.0	
CALM	.1	.1	.1	.4	10	5.8	
TOT	126	114	373	749	1362	6.5	
PCT	9.3	8.4	27.4	55.0	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										NH <5/8 ANY HGT	TOTAL OBS	
	000	150	300	600	1000	2000	3500	5000	6500	8000+			
	149	299	599	999	1999	3499	4999	6499	7999				
	.2	.0	.1	.3	1.7	1.5	.2	.0	.1	.0	.0	1.8	80
	.3	.0	.1	.4	1.0	.5	.1	.0	.0	.0	.0	.5	51
	.4	.0	.0	.5	1.2	.9	.0	.0	.1	.0	.0	.7	52
	.2	.0	.1	.6	.5	.5	.1	.0	.0	.0	.0	.6	33
	.6	.0	.1	.4	1.4	.5	.1	.1	.1	.0	.0	.8	59
	.3	.1	.1	.1	.8	.1	.3	.0	.0	.0	.1	.7	37
	.4	.1	.3	.7	1.1	1.0	.4	.1	.0	.0	.0	1.0	74
	.6	.1	.2	.4	1.0	.9	.2	.0	.0	.0	.1	.6	52
	.7	.1	.4	.6	1.1	1.0	.1	.1	.1	.0	.1	1.0	71
	.5	.1	.4	.4	.5	.9	.3	.1	.0	.0	.0	.7	54
	.6	.0	.3	.6	1.4	1.1	.2	.0	.0	.0	.4	2.6	98
	.2	.0	.1	1.2	2.6	1.6	.5	.1	.0	.0	.1	3.1	131
	.4	.1	.5	2.4	6.6	3.1	.1	.1	.1	.0	.1	4.6	248
	.1	.1	.0	1.1	3.2	2.6	.4	.1	.0	.0	.0	2.8	141
	.1	.0	.4	1.2	1.2	1.2	.1	.3	.1	.0	.0	2.1	92
	.1	.0	.1	.6	2.1	1.1	.4	.2	.0	.0	.0	1.8	87
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
	.1	.0	.1	.0	.2	.1	.1	.0	.0	.0	.0	.2	10
	.79	.9	.47	1.58	3.77	2.54	.52	.20	.7	.11	.348	1362	
	5.8	.7	3.5	11.6	27.7	18.6	3.8	1.5	.5	.8	25.6	100.0	



PERIOD: (PRIMARY) 1948-1967  
(OVER-ALL) 1875-1967

DECEMBER

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	.7	1.2	1.3	1.3	1.3	1.3	1.3
= OR >5000	1.2	2.5	2.8	2.8	2.8	2.8	2.8
= OR >3500	3.1	5.8	6.3	6.5	6.5	6.6	6.6
= OR >2000	13.1	23.3	24.7	25.1	25.2	25.3	25.3
= OR >1000	27.5	47.4	51.5	52.6	52.9	52.9	52.9
= OR >600	32.4	56.4	62.0	63.7	64.2	64.5	64.5
= OR >300	33.3	58.1	64.3	66.7	67.3	68.0	68.0
= OR >150	33.4	58.4	64.8	67.3	67.9	68.6	68.6
= OR > 0	33.8	59.5	66.4	69.5	70.9	74.1	74.4
TOTAL	460	811	904	947	966	1009	1014

TOTAL NUMBER OF OBS: 1362

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.2	2.9	6.7	4.4	4.7	5.6	9.8	11.6	42.5	5.5	1563

DECEMBER

PERIOD: (PRIMARY) 1948-1967  
(OVER-ALL) 1875-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
<1/2	PCP	.0	.2	.0	.2	.1	.1	.2	.1	.2	.1	.0	.1	.0	.0	.0	.1	.0	.1	16	1.2	
	NO PCP	.0	.0	.2	.2	.3	.3	.5	.2	.2	.4	.3	.0	.2	.0	.0	.0	.0	.0	.0	35	2.7
	TOTAL	0	2	2	4	5	5	8	4	6	6	4	1	2	0	0	1	0	1	51	3.9	
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.2	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	5	.4	
	NO PCP	.0	.2	.2	.1	.1	.0	.1	.0	.2	.0	.3	.0	.1	.0	.0	.0	.0	.0	14	1.1	
	TOTAL	0	2	2	1	2	0	3	0	2	0	4	1	1	0	1	0	0	0	19	1.5	
1<2	PCP	.0	.0	.1	.1	.2	.1	.2	.1	.2	.2	.0	.2	.1	.2	.0	.1	.0	.0	20	1.5	
	NO PCP	.2	.0	.0	.0	.1	.0	.2	.1	.2	.2	.3	.1	.2	.3	.0	.1	.0	.0	25	1.9	
	TOTAL	2	0	1	1	4	1	5	2	5	6	4	3	3	6	0	2	0	0	45	3.4	
2<5	PCP	.2	.3	.3	.0	.6	.4	.4	.5	.5	.2	.2	.4	.7	.4	.3	.1	.0	.0	70	5.4	
	NO PCP	.0	.2	.2	.0	.1	.0	.4	.1	.2	.2	.3	.2	.1	.0	.2	.1	.0	.0	27	2.1	
	TOTAL	2	6	7	0	9	5	10	7	9	4	7	8	10	5	6	2	0	0	97	7.4	
5<10	PCP	.1	.4	.1	.5	.5	.4	.5	.5	.2	.5	.2	.8	1.5	.5	.5	.5	.0	.0	103	7.9	
	NO PCP	1.6	.5	.9	.7	.5	.8	1.4	1.5	1.8	.8	1.9	2.4	3.8	3.0	1.5	1.2	.0	.3	322	24.6	
	TOTAL	22	12	13	15	13	15	25	26	27	17	28	43	70	46	26	23	0	4	425	32.5	
10<>	PCP	.1	.0	.2	.0	.2	.2	.6	.0	.1	.2	.2	.2	1.1	.5	.4	.2	.0	.0	44	3.4	
	NO PCP	3.9	1.5	1.7	1.0	1.6	.7	1.7	1.0	1.5	1.4	3.1	5.0	10.1	5.4	4.0	4.2	.0	.3	626	47.9	
	TOTAL	52	19	24	13	23	11	22	13	20	21	42	67	147	77	57	58	0	4	670	51.3	
	TOTAL PCT	78 6.0	41 3.1	49 3.7	34 2.6	56 4.3	37 2.8	73 5.6	52 4.0	69 5.3	54 4.1	89 6.8	123 9.4	233 17.8	134 10.3	90 6.9	86 6.6	0 .0	9 .7	1307 100.0		

DECEMBER

PERIOD: (PRIMARY) 1948-1967  
(OVER-ALL) 1875-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
	4-10	.0	.0	.0	.1	.0	.3	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0		10	.7
	11-21	.0	.0	.1	.1	.3	.1	.3	.2	.2	.1	.3	.1	.1	.0	.0	.0	.0	.0		27	2.0
	22&>	.0	.1	.0	.1	.1	.0	.1	.1	.2	.1	.0	.0	.0	.0	.0	.1	.0	.0		13	1.0
	TOTAL	0	2	2	4	5	5	8	4	6	6	4	1	2	0	0	1	0	1		51	3.7
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.1
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0		2	.1
	11-21	.0	.1	.0	.1	.1	.0	.1	.0	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0		8	.6
	22&>	.0	.0	.1	.0	.1	.0	.1	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0		8	.6
	TOTAL	0	2	2	1	2	0	3	0	2	0	4	1	1	0	1	0	0	0	0	19	1.4
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1	.0	.1	.0	.0		8	.6
	11-21	.0	.0	.1	.1	.2	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.1	.0	.0		19	1.4
	22&>	.2	.0	.0	.0	.1	.0	.0	.1	.2	.3	.1	.1	.1	.3	.0	.0	.0	.0		20	1.5
	TOTAL	3	0	1	1	4	1	5	2	5	6	4	4	3	6	0	2	0	0	0	47	3.5
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.1	.0	.1	.1	.0	.1	.1	.1	.1	.0	.2	.0	.0	.0		11	.8
	11-21	.1	.2	.2	.0	.5	.2	.1	.1	.1	.1	.4	.1	.2	.0	.2	.1	.0	.0		37	2.7
	22&>	.1	.2	.3	.0	.1	.1	.4	.3	.5	.1	.1	.4	.4	.4	.0	.1	.0	.0		51	3.7
	TOTAL	2	6	7	0	10	5	10	7	9	4	8	8	10	5	6	2	0	0	0	99	7.3
5<10	0-3	.0	.0	.1	.1	.0	.0	.1	.1	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.3	13	1.0
	4-10	.1	.1	.1	.4	.1	.0	.1	.3	.1	.3	.2	.7	.4	.4	.1	.4	.0	.0		53	3.9
	11-21	.6	.3	.4	.4	.3	.7	.9	.6	1.0	.6	1.0	1.0	1.0	1.2	1.0	.5	.0		155	11.4	
	22&>	1.0	.4	.4	.2	.6	.4	.8	.9	.9	.4	.8	1.5	3.8	1.6	.8	.7	.0		208	15.3	
	TOTAL	22	12	13	15	13	15	25	26	28	17	28	44	71	46	27	23	0	4	429	31.5	
10&>	0-3	.1	.0	.1	.1	.1	.0	.0	.0	.0	.1	.0	.1	.1	.1	.0	.1	.0	.4	18	1.3	
	4-10	.7	.3	.6	.2	.2	.2	.3	.1	.4	.2	.7	.4	.7	.6	.6	.3	.0		90	6.6	
	11-21	2.3	.6	.8	.5	1.2	.5	1.1	.6	.9	1.1	1.6	2.1	4.9	2.9	2.0	2.7	.0		353	25.9	
	22&>	.7	.5	.5	.2	.3	.1	.3	.2	.2	.2	1.2	2.9	6.0	2.5	1.7	1.2	.0		256	18.8	
	TOTAL	53	19	27	14	25	11	23	13	21	21	50	73	161	84	58	59	0	5	717	52.6	
TOTAL	80	41	52	35	59	37	74	52	71	54	98	131	248	141	92	87	0	10	1362	100.0		
PCT	5.9	3.0	3.8	2.6	4.3	2.7	5.4	3.8	5.2	4.0	7.2	9.6	18.2	10.4	6.8	6.4	.0	.7	100.0			

DECEMBER

PERIOD: (PRIMARY) 1948-1967  
(OVER-ALL) 1875-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.3	.1	1.0	2.1	7.7	5.1	.9	.6	.1	.2	270	7.1	370
06009	1.4	.1	.6	2.2	5.2	4.5	.5	.1	.0	.3	209	7.2	311
12015	1.1	.4	.7	3.3	6.2	4.1	1.1	.1	.0	.1	241	5.9	324
18021	1.8	.0	1.1	3.6	7.7	4.6	1.2	.6	.4	.2	298	7.4	402
TOT	79	9	47	158	377	257	52	21	7	11	1018	389	1407
PCT	5.6	.6	3.3	11.2	26.8	18.3	3.7	1.5	.5	.8	72.4	27.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.8	.1	.8	2.6	8.9	13.3	364
06009	.9	.3	.7	1.2	7.5	11.3	300
12015	1.1	.3	1.0	1.0	6.4	13.1	315
18021	.9	.7	.9	2.5	8.7	15.0	392
TOT	51	19	47	99	432	723	1371
PCT	3.7	1.4	3.4	7.2	31.5	52.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ <OR5+	NH <5/8 ANY HGT	TOTAL OBS
00003	.1	.8	2.4	17.3	6.9	364
06009	.1	.9	1.5	13.7	6.6	300
12015	.1	1.2	2.5	15.1	5.4	315
18021	.1	1.2	2.9	18.8	6.9	392
TOT	5	5.6	77	890	353	1371
PCT	.4	4.1	5.6	64.9	25.7	100.0

DECEMBER

PERIOD: (PRIMARY) 1948-1967  
(OVER-ALL) 1875-1967

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.1	.0	.0	.0	.0	.0	.0	1	.1
60/64	.1	.0	.0	.0	.0	.0	.0	.0	1	.1
55/59	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
50/54	.0	.1	.0	.0	.2	.1	.5	.7	19	1.4
45/49	.0	.0	.0	.1	.1	.3	1.9	4.5	90	6.8
40/44	.0	.1	.0	.4	1.8	2.4	6.0	10.6	282	7.3
35/39	.1	.0	.0	1.4	4.1	5.4	10.4	12.4	447	32.8
30/34	.0	.0	.0	.4	4.9	5.1	8.1	8.4	356	26.9
25/29	.0	.0	.0	.2	1.1	1.8	1.4	3.2	103	7.8
20/24	.0	.0	.1	.0	.2	.4	.3	.7	21	1.6
15/19	.0	.0	.0	.0	.0	.0	.1	.2	3	.2
TOTAL	2	3	1	33	162	205	381	537	1324	100.0
PCT	.2	.2	.1	2.5	12.2	15.5	28.8	40.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
	.2	.0	.3	.3	.3	.1	.2	.1	.0	.0
	.1	.1	.5	1.7	2.0	1.5	.5	.3	.0	.1
	.9	1.5	1.5	3.2	4.0	3.9	4.3	1.7	.0	.2
	3.2	1.7	2.9	3.1	2.6	6.0	8.9	4.8	.0	.5
	3.5	2.6	1.5	.8	.8	4.4	9.4	3.8	.0	.2
	.8	.3	.2	.1	.0	.6	3.2	2.7	.0	.0
	.4	.1	.0	.0	.0	.1	.5	.5	.0	.0
	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0
	119	82	91	121	131	219	362	187	0	12
	9.0	6.2	6.9	9.1	9.9	16.5	27.3	14.1	.0	.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0003	69	52	47	37	26	22	10	36.5	539
0609	66	52	46	36	28	24	22	36.6	384
1215	52	52	47	37	27	22	20	35.9	478
1821	54	51	47	37	26	20	18	36.4	456
TOT	69	50	45	35	25	21	10	36.4	1857

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0003	.1	.2			2.6	3.9	8.2	12.0	86	358
0609	.0	1.0			2.6	3.3	5.9	10.0	84	302
1215	.1	.9			3.5	4.7	6.6	7.9	82	315
1821	.0	.7			3.8	3.6	8.0	10.6	84	354
TOT	2	37			164	207	381	538	84	1329

PERIOD: (PRIMARY) 1948-1967  
(OVER-ALL) 1875-1967

DECEMBER

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	4	.1	.2
9/10	.0	.0	.0	.0	.0	.0	.5	.5	.4	.0	19	.4	1.0
7/8	.0	.0	.0	.0	.0	.2	.8	1.0	.5	.1	36	.3	2.3
6	.0	.0	.0	.0	.0	.0	.6	.6	.1	.1	20	.2	1.2
5	.0	.0	.0	.0	.1	.3	1.3	1.1	.1	.0	41	.7	2.2
4	.0	.0	.0	.0	.0	1.1	1.6	.5	.1	.0	52	.6	3.1
3	.0	.0	.0	.0	.3	1.9	1.9	.7	.1	.0	69	.9	4.0
2	.0	.0	.0	.0	1.0	2.1	1.4	.6	.1	.0	71	.4	4.7
1	.0	.0	.0	.1	1.0	3.1	1.8	.5	.0	.0	92	.2	6.4
0	.0	.0	.0	.1	2.4	4.0	1.6	.3	.0	.0	118	.3	8.1
-1	.0	.0	.0	.3	2.9	2.6	1.5	.4	.1	.0	109	.2	7.6
-2	.0	.0	.1	.6	2.9	2.6	.9	.1	.0	.0	100	.3	6.9
-3	.0	.1	.1	.9	2.5	2.1	.5	.0	.1	.0	86	.0	6.2
-4	.0	.0	.4	1.2	3.9	1.9	.6	.1	.0	.0	113	.3	7.8
-5	.0	.0	.6	1.7	2.2	1.4	.1	.0	.0	.0	85	.1	6.0
-6	.0	.0	.6	2.4	2.3	.7	.1	.1	.0	.0	87	.1	6.1
-7/-8	.0	.0	.8	4.2	1.9	.6	.1	.0	.0	.0	106	.0	7.6
-9/-10	.0	.3	1.9	2.4	1.8	.4	.0	.0	.0	.0	94	.1	6.6
-11/-13	.0	.4	1.6	1.4	1.1	.2	.0	.0	.0	.0	66	.1	4.6
-14/-16	.1	.4	.5	.1	.3	.0	.0	.0	.0	.0	20	.0	1.4
-17/-19	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	7	.0	.5
-20/-22	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	6	18	92	218	371	353	219	95	23	2	1397	74	1323
PCT	.4	1.3	6.6	15.6	26.6	25.3	15.7	6.8	1.6	.1	100.0	5.3	94.7

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

DECEMBER

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						TOTAL	NE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.0	.3	.3	.0	.0	.0	2	.0	.3	.0	.0	.0	.0	1
1-2	.0	1.6	.5	.0	.0	.0	8	.0	.8	.3	.0	.0	.0	4
3-4	.0	.5	1.1	.3	.3	.0	8	.0	.8	.8	.5	.0	.0	8
5-6	.0	.3	.8	.0	.0	.0	4	.0	.0	.3	.?	.0	.0	2
7	.0	.0	.3	.5	.3	.0	4	.0	.0	.0	.0	.3	.0	1
8-9	.0	.0	.5	.5	.3	.0	5	.0	.0	.0	.3	.0	.0	1
10-11	.0	.0	.3	.3	.3	.0	3	.0	.0	.3	1.1	.0	.0	5
12	.0	.0	.3	.3	.0	.0	2	.0	.0	.0	.3	.0	.0	1
13-16	.0	.0	.0	.0	.3	.0	1	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.3	.0	1	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.3	.0	1	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	0	10	15	7	7	0	39	0	7	6	9	1	0	23
PCT	.0	2.7	4.1	1.9	1.9	.0	10.7	.0	1.9	1.6	2.5	.3	.0	6.3

HGT	E						TOTAL	SE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.3	.0	.0	.0	.0	.0	1	.0	1.1	.0	.0	.0	.0	4
1-2	.0	.8	.5	.0	.0	.0	5	.0	.8	.3	.0	.0	.0	4
3-4	.0	.0	.8	.0	.0	.0	3	.0	1.4	.3	.3	.3	.0	8
5-6	.0	.3	1.1	.5	.0	.0	7	.0	.3	.8	.5	.0	.0	6
7	.0	.3	.5	.3	.0	.0	4	.0	.0	.0	.3	.0	.0	1
8-9	.0	.0	.0	.5	.0	.0	2	.0	.0	.0	.0	.3	.0	1
10-11	.0	.0	.0	.0	.3	.0	1	.0	.0	.0	.5	.0	.0	2
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	.0	.0	1
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	1.4	.0	5
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.3	1
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	5	11	5	1	0	23	0	13	5	7	7	1	33
PCT	.3	1.4	3.0	1.4	.3	.0	6.3	.0	3.6	1.4	1.9	1.9	.3	9.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

DECEMBER

AREA 001 ARGENTIA  
43-47N 53-56W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.0	.5	.0	.0	.0	.0	2	.3	.0	.0	.0	.0	.0	1	11	
1-2	.0	1.4	.5	.0	.0	.0	7	.0	1.1	.5	.0	.0	.0	6	48	
3-4	.0	.5	1.1	.3	.0	.0	7	.0	1.1	1.4	.0	.0	.0	6	62	
5-6	.0	.0	2.2	.5	.0	.0	10	.0	.0	1.9	.3	.0	.0	8	73	
7	.0	.0	.3	.5	.0	.0	3	.0	.0	.5	1.1	.3	.0	7	49	
8-9	.0	.0	.0	1.1	.0	.0	4	.0	.0	.3	1.1	.3	.0	6	35	
10-11	.0	.0	.0	.3	.5	.0	3	.0	.0	.0	.0	.5	.0	2	32	
12	.0	.0	.0	.3	.0	.0	1	.0	.0	.3	.0	.3	.0	2	16	
13-16	.0	.0	.0	.0	.8	.0	3	.0	.0	.0	.0	1.1	.3	5	24	
17-19	.0	.0	.0	.0	.5	.0	2	.0	.0	.0	.0	.0	.0	0	4	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.3	.0	1	6	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.3	.0	0	2	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	.5	.3	4	4	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
TOTAL	0	9	15	11	7	0	42	1	8	18	10	13	2	52	366	
PCT	.0	2.5	4.1	3.0	1.9	.0	11.5	.3	2.2	4.9	2.7	3.6	.5	14.2	100.0	



DECEMBER

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

TABLE 18 (CONT)

AREA 001 ARGENTIA  
45-47N 53-56W

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)						TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+	
<1	1.6	2.2	.3	.0	.0	.0	15
1-2	.3	8.4	4.3	.0	.0	.0	48
3-4	.3	5.7	9.2	1.3	.5	.0	63
5-6	.0	1.3	13.7	3.8	.8	.0	73
7	.0	.5	5.4	4.6	2.7	.0	49
8-9	.0	.0	2.4	5.9	1.1	.0	35
10-11	.0	.0	1.6	3.8	3.0	.3	32
12	.0	.0	.5	2.2	1.6	.0	16
13-16	.0	.0	.0	.8	5.1	.5	24
17-19	.0	.0	.0	.0	1.1	.0	4
20-22	.0	.0	.0	.0	1.3	.3	6
23-25	.0	.0	.0	.0	.5	.0	2
26-32	.0	.0	.0	.3	.5	.3	4
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	8	67	139	84	68	5	371
PCT	2.2	18.1	37.5	22.6	18.3	1.3	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.2	5.2	8.1	6.4	1.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80	3
6-7	.0	.0	2.6	6.7	8.1	6.1	2.6	2.9	1.4	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	106	7
8-9	.0	.6	.3	2.6	6.7	7.5	4.6	1.7	3.8	.6	.9	.3	.3	.0	.0	.0	.0	.0	.0	.0	103	9
10-11	.0	.0	.0	.9	1.4	.3	1.4	2.3	1.4	.3	.3	.0	1.2	.3	.0	.0	.0	.0	.0	.0	34	13
12-13	.0	.0	.0	.0	.3	.3	.6	.0	.3	.3	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	8	14
>13	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	5	13
INDET	.6	.0	.0	.3	.3	.3	.0	.0	.3	.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	9	11
TOTAL	6	20	38	58	64	52	36	24	25	5	5	2	9	1	0	0	0	0	0	0	345	8
PCT	1.7	5.8	11.0	16.8	18.6	15.1	10.4	7.0	7.2	1.4	1.4	.6	2.6	.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1869-1968

ANNUAL

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OBS TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
N	.2	*	.1	*	.2	*	.0	110	*	.3	*	*	71	951	.6	
NNE	.2	.1	.1	.0	.3	*	.0	127	.0	.4	*	*	77	636	.7	
NE	.4	*	.2	*	.3	*	.0	170	*	.5	*	.0	97	765	.9	
ENE	.4	*	.2	*	.2	.0	*	155	.0	.4	*	*	82	638	.8	
E	.7	.1	.3	*	.2	.0	*	256	.0	.9	*	*	172	921	1.3	
ESE	.6	.1	.2	*	.1	*	*	193	*	.6	*	.0	117	609	1.0	
SE	.6	.1	.2	*	.2	.0	.0	206	*	1.3	.1	*	258	890	1.1	
SSE	.6	*	.2	.0	.1	*	.0	190	*	1.0	.1	*	203	831	1.0	
S	.9	.1	.3	.0	.1	*	.0	269	*	2.4	.1	*	481	1458	1.4	
SSW	.6	.1	.3	.0	.1	.0	.0	209	*	1.9	.1	.0	394	1312	1.1	
SW	.4	.1	.1	*	.2	*	*	172	.0	2.5	.2	*	516	1855	.9	
WSW	.3	.1	.1	*	.5	*	*	191	.0	1.8	.2	*	383	1898	1.0	
W	.3	.1	.1	.0	1.1	*	*	328	*	1.2	.1	*	251	2717	1.7	
WNW	.1	.1	*	*	.8	*	*	195	.0	.4	*	*	77	1521	1.0	
NW	.1	*	.1	*	.4	.0	*	129	*	.3	*	*	77	1170	.7	
NNW	.1	*	.1	*	.2	.0	*	83	.0	.1	*	*	28	782	.4	
VAR	.0	.0	*	.0	.0	.0	.0	1	.0	.1	.0	.0	17	40	*	
CALM	*	.0	*	.0	*	.0	.0	16	*	.4	*	.0	84	252	.1	
TOT	1283	185	502	16	973	18	23	3000	22	3127	217	19	3385	19246	15.6	
PCT	6.7	1.0	2.6	.1	5.1	.1	.1	15.6	.1	16.2	1.1	.1	17.6	100.0	15.6	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OBS TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
00&03	2.3	.3	.8	*	1.5	*	*	960	*	4.5	.3	*	932	5681	5.0	
06&09	1.6	.2	.6	*	1.2	*	*	715	*	3.4	.1	*	689	4338	3.7	
12&15	1.4	.2	.6	*	1.1	*	*	660	*	4.2	.4	*	905	4728	3.4	
18&21	1.5	.2	.5	*	1.2	*	*	678	*	4.2	.3	*	886	4639	3.5	
TOT	1292	186	503	16	975	18	23	3013	22	3154	217	19	3412	19386	15.5	
PCT	6.7	1.0	2.6	.1	5.0	.1	.1	15.5	.1	16.3	1.1	.1	17.6	100.0	15.5	

## ANNUAL

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1869-1968

TABLE 3

AREA 001 ARGENTIA  
45-47N 53-56W

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.2	1.4	2.1	1.0	.2	*	1067	4.9	15.7	4.5	5.7	5.5	5.6	5.2	5.1	4.1	4.4
NNE	.1	.8	1.5	.7	.2	*	712	3.3	17.0	3.4	3.8	3.1	5.0	3.3	4.2	2.4	3.2
NE	.1	1.2	1.6	.8	.1	*	863	4.0	16.0	4.2	3.6	3.8	4.0	4.2	3.7	3.7	3.8
ENE	.1	1.0	1.4	.6	.1	*	684	3.1	15.8	2.9	2.9	3.3	4.0	3.2	3.2	3.3	3.0
E	.3	1.4	1.9	.9	.2	*	1026	4.7	15.6	4.8	5.4	4.4	5.3	4.6	4.1	4.6	5.8
ESE	.1	1.0	1.4	.5	.1	*	670	3.1	15.0	2.9	3.7	2.6	3.1	2.8	3.2	3.5	4.1
SE	.2	1.5	1.8	.8	.2	*	980	4.5	15.5	4.9	4.8	3.7	4.8	4.6	4.9	4.4	4.2
SSE	.1	1.4	1.8	.7	.2	*	934	4.3	15.4	4.5	3.9	4.2	3.9	4.2	3.3	4.8	3.7
S	.3	2.6	3.0	1.2	.2	*	1609	7.4	14.8	7.0	7.4	7.4	6.5	7.4	9.3	7.5	7.7
SSW	.2	2.1	3.3	1.0	.1	*	1467	6.7	14.7	6.7	6.4	6.2	6.7	6.7	7.8	6.8	8.5
SW	.3	3.3	4.6	1.2	.2	*	2115	9.7	14.6	10.6	9.0	9.5	9.3	9.4	9.8	9.4	9.5
WSW	.2	2.7	4.4	1.9	.5	.1	2125	9.8	16.6	9.6	8.7	9.5	8.7	9.7	9.5	10.3	11.8
W	.3	3.1	5.6	3.7	1.2	.2	3067	14.1	19.0	14.0	14.7	14.0	13.1	13.5	14.1	15.5	12.2
MNW	.1	1.7	3.3	2.3	.7	.1	1792	8.2	19.4	8.5	8.4	7.9	7.7	7.9	7.4	8.1	10.5
NW	.1	1.8	2.8	1.4	.3	*	1396	6.4	16.9	6.2	6.4	7.2	6.1	6.9	5.6	6.3	3.9
NNW	.2	1.1	2.0	.9	.2	*	935	4.3	16.7	3.9	4.1	5.1	4.9	4.7	3.9	4.0	2.7
VAR	.1	*	.0	.0	.0	.0	40	.2	2.7	.1	.1	.3	.2	.2	.1	.2	.2
CALM	1.4						305	1.4	.0	1.3	.8	2.2	.7	1.6	.7	1.2	.7
TOT	970	6134	9268	4257	1028	130	21787	100.0	16.2	5298	1362	3813	815	4688	945	3775	1091
PCT	4.5	28.2	42.5	19.5	4.7	.6	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	1.1	3.6	2.6	.8	.1	1779	8.2	16.2	7.9	9.5	8.6	10.7	8.5	9.3	6.5	7.6
NE	1.0	3.0	2.2	.7	.1	1547	7.1	15.9	7.0	6.5	7.1	8.1	7.4	6.9	7.0	6.8
E	1.2	3.6	2.2	.7	.1	1696	7.8	15.3	7.8	9.1	7.0	8.3	7.3	7.3	8.1	9.9
SE	1.4	4.0	2.5	.8	.1	1914	8.8	15.4	9.3	8.7	8.0	8.7	8.9	8.1	9.2	7.9
S	2.1	7.1	3.8	1.0	.1	3076	14.1	14.8	13.7	13.8	13.6	13.3	14.1	17.1	14.3	16.2
SW	2.4	9.6	5.6	1.6	.3	4240	19.5	15.6	20.2	17.8	19.0	18.0	19.2	19.4	19.6	21.4
W	1.9	8.3	7.5	3.9	.7	4859	22.3	19.1	22.5	23.1	21.9	20.9	21.3	21.5	23.7	22.7
NW	1.2	4.5	3.7	1.1	.1	2331	10.7	16.8	10.1	10.5	12.3	11.0	11.5	9.5	10.4	6.6
VAR	.2	.0	.0	.0	.0	40	.2	2.7	.1	.1	.3	.2	.2	.1	.2	.2
CALM	1.4					305	1.4	.0	1.3	.8	2.2	.7	1.6	.7	1.2	.7
TOT	3028	9540	6573	2293	353	21787	100.0	16.2	5298	1362	3813	815	4688	945	3775	1091
PCT	13.9	43.8	30.2	10.5	1.6	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1869-1968

ANNUAL

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	1.0	8.7	13.2	5.9	1.2	.1	*	.4	15.8	30.6	6660
06&09	.5	5.7	9.3	4.1	1.0	.1	.1	.4	16.2	21.2	4628
12&15	.9	7.8	10.5	4.9	1.2	.1	*	.4	15.8	25.9	5633
18&21	.5	5.9	9.6	4.6	1.3	.2	*	.2	17.1	22.3	4866
TOT	633	6126	9268	4257	1028	130	40	305	16.2		21787
PCT	2.9	28.1	42.5	19.5	4.7	.6	.2	1.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

BY WIND DIRECTION

WIND DIR	BY WIND DIRECTION				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD		
N	.9	.5	1.3	2.4	844	5.9
NNE	.5	.3	.7	2.0	551	6.4
NE	.4	.2	.7	2.7	647	6.8
ENE	.4	.2	.4	2.3	534	6.8
E	.5	.1	.6	3.5	765	7.0
ESE	.2	.1	.5	2.2	495	7.1
SE	.3	.2	.6	3.2	694	7.1
SSE	.4	.2	.7	2.9	666	6.8
S	.8	.3	1.2	4.8	1152	6.7
SSW	1.0	.4	1.2	3.8	1044	6.3
SW	1.8	.7	1.9	4.7	1485	5.9
WSW	2.4	.8	2.3	4.4	1597	5.5
W	3.8	1.6	4.0	5.5	2404	5.2
WNW	2.1	1.1	2.6	2.8	1389	5.2
NW	1.5	.7	1.9	2.1	1010	5.3
NNW	.9	.5	1.1	1.9	706	5.7
VAR	*	*	*	*	22	4.4
CALM	.3	.1	.2	.6	198	5.5
TOT	2932	1306	3569	8396	16203	6.0
PCT	18.1	8.1	22.0	51.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)										NH <5/8 ANY HGT	TOTAL OBS
	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+		
N	.2	*	.1	.5	1.2	.9	.2	.1	*	*	1.9	844
NNE	.3	*	.1	.4	.8	.5	.1	*	*	*	1.0	551
NE	.4	*	.2	.5	1.0	.7	.2	*	.1	.1	.9	647
ENE	.3	*	.2	.4	.7	.5	.1	*	*	.1	.8	534
E	.7	*	.3	.5	1.2	.5	.2	*	*	.1	1.0	765
ESE	.5	*	.2	.3	.7	.4	.2	.1	*	.1	.7	495
SE	1.0	*	.2	.5	.8	.5	.1	.1	*	.1	.9	694
SSE	.8	.1	.2	.4	.7	.4	.2	.1	*	.1	1.1	666
S	1.8	.1	.2	.6	1.1	.8	.2	.1	.1	.2	1.9	1152
SSW	1.5	*	.3	.5	.8	.6	.2	.1	.1	.1	2.3	1044
SW	1.8	.1	.2	.5	1.3	.9	.2	.1	.1	.3	3.7	1485
WSW	1.3	*	.2	.7	1.5	1.2	.3	.1	.1	.2	4.3	1597
W	.8	.1	.2	1.2	2.8	2.1	.4	.1	.1	.2	6.6	2404
WNW	.3	*	.1	.5	1.8	1.5	.2	.1	*	.1	3.9	1389
NW	.2	*	.1	.5	1.0	1.1	.2	.1	*	.1	2.8	1010
NNW	.2	*	.1	.4	.9	.8	.2	.1	*	*	1.7	706
VAR	*	.0	.0	*	*	*	.0	.0	.0	.0	.1	22
CALM	.3	*	*	.1	.1	.1	*	*	*	*	.5	198
TOT	2006	109	493	1366	2975	2207	540	201	167	298	5841	16203
PCT	12.4	.7	3.0	8.4	18.4	13.6	3.3	1.2	1.0	1.8	36.0	100.0

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1869-1968

ANNUAL

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55VD
= OR >6500	1.6	2.6	2.8	2.8	2.8	2.9	2.9
= OR >5000	2.3	3.8	4.0	4.0	4.1	4.1	4.1
= OR >3500	4.1	6.9	7.2	7.3	7.4	7.4	7.4
= OR >2000	10.3	19.5	20.5	20.8	20.9	21.1	21.1
= OR >1000	18.2	34.6	37.9	38.7	39.1	39.4	39.5
= OR >600	21.5	40.6	45.4	46.7	47.4	47.9	48.0
= OR >300	22.1	42.0	47.6	49.2	50.2	50.9	51.0
= OR >150	22.1	42.2	47.9	49.7	50.7	51.6	51.7
= OR > 0	22.3	42.8	48.9	51.4	53.6	62.4	64.0
TOTAL	3604	6915	7908	8306	8668	10090	10339

TOTAL NUMBER OF OBS: 16166

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.6	6.3	7.5	4.4	3.5	4.3	7.6	7.3	32.4	13.1	18268

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1869-1968

ANNUAL

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	*	*	.1	.1	.1	.1	.1	.1	.2	.2	.1	.1	.1	*	*	*	.0	*	216	1.4
	NO PCP	.2	.1	.3	.2	.5	.3	.8	.7	1.5	1.2	1.6	1.2	.6	.2	.2	.1	*	.2	1522	9.7
	TOTAL	27	30	55	48	83	65	138	125	265	219	260	189	106	28	36	19	4	41	1738	11.1
1/2<1	PCP	.1	.1	*	*	.1	*	.1	.1	.1	.1	.1	.1	.1	*	*	*	.0	*	146	.9
	NO PCP	*	.1	.1	.1	.1	.1	.1	.1	.2	.1	.2	.2	.1	*	.1	*	.0	*	233	1.5
	TOTAL	12	21	16	16	36	15	35	26	38	28	37	36	21	13	13	9	0	7	379	2.4
1<2	PCP	*	*	.1	.1	.1	.1	.1	.1	.2	.1	*	.1	.1	.1	*	*	.0	*	198	1.3
	NO PCP	*	.1	.1	*	.1	.1	.1	.1	.1	.1	.2	.2	.1	*	*	*	*	*	227	1.5
	TOTAL	11	17	23	21	44	24	30	24	49	37	34	43	32	16	7	7	1	5	425	2.7
2<5	PCP	.2	.2	.3	.3	.3	.3	.3	.3	.3	.2	.2	.2	.3	.2	.1	*	*	*	569	3.6
	NO PCP	.1	.1	.1	.1	.2	.1	.2	.2	.4	.4	.4	.4	.4	.1	.1	*	.0	.1	554	3.5
	TOTAL	43	39	66	58	82	65	84	73	109	99	97	92	112	51	31	8	1	13	1123	7.2
5<10	PCP	.2	.2	.3	.2	.4	.4	.3	.4	.4	.3	.3	.4	.8	.5	.3	.2	.0	*	896	5.7
	NO PCP	1.3	.8	1.0	.8	1.2	.7	.9	.9	1.7	1.6	2.3	2.5	3.5	2.1	1.3	.9	*	.2	3733	23.9
	TOTAL	232	166	205	164	260	169	184	204	335	293	409	453	680	413	245	175	2	40	4629	29.6
10<∞	PCP	.1	.1	.1	*	.1	.1	*	*	.1	.1	.1	.1	.3	.2	.1	.1	.0	.0	227	1.5
	NO PCP	3.0	1.6	1.6	1.4	1.4	.9	1.3	1.2	2.0	2.2	3.7	4.6	8.4	4.9	3.9	2.8	.1	.6	7111	45.5
	TOTAL	481	263	263	220	232	148	204	194	325	346	587	737	1362	793	630	450	14	89	7338	46.9
TOTAL	806	536	628	527	737	486	675	646	1121	1022	1424	1550	2313	1314	962	668	22	195	15632	100.0	
PCT	5.2	3.4	4.0	3.4	4.7	3.1	4.3	4.1	7.2	6.5	9.1	9.9	14.8	8.4	6.2	4.3	.1	1.2	100.0		

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1869-1968

ANNUAL

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	*	*	*	*	*	*	*	*	.1	*	*	*	*	.0	*	*	*	.3	106	.7
	4-10	.1	.1	.2	.1	.2	.1	.2	.2	.4	.3	.4	.3	.2	.1	.1	*	.0		479	3.0
	11-21	*	.1	.1	.2	.2	.2	.5	.4	.9	.8	1.0	.7	.4	.1	.1	*	.0		932	5.8
	22<	*	.1	*	*	.1	*	.1	.1	.3	.2	.2	.1	.1	*	*	*	.0		235	1.5
	TOTAL	27	30	56	48	83	65	139	126	266	219	265	191	109	28	36	19	4	41	1752	10.8
1/2<1	0-3	.0	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	.0	.0	.0	.0	*	14	.1
	4-10	*	*	*	*	*	*	*	*	.1	*	*	.1	*	*	*	*	.0		81	.5
	11-21	*	.1	*	*	.1	.1	.1	.1	.1	.1	.1	.1	.1	*	.1	*	.0		178	1.1
	22<	*	*	*	*	.1	*	.1	*	.1	.1	.1	*	*	*	.0	*	.0		110	.7
	TOTAL	12	21	16	16	38	15	35	26	39	28	38	36	21	13	13	9	0	7	383	2.4
1<2	0-3	*	.0	*	.0	*	*	.0	.0	.0	.0	*	.0	.0	.0	.0	*	*	*	13	.1
	4-10	.0	*	*	*	.1	*	*	*	*	*	*	*	*	*	.0	*	.0		66	.4
	11-21	*	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.2	.1	*	*	*	.0		213	1.3
	22<	*	*	*	*	.1	*	.1	*	.1	.1	*	.1	.1	*	*	*	.0		138	.9
	TOTAL	12	17	23	21	44	24	30	24	49	37	35	44	32	18	7	7	1	5	430	2.7
2<5	0-3	.0	.0	*	.0	*	.0	*	*	*	*	*	*	*	.0	.0	*	*	.1	30	.2
	4-10	.1	*	*	*	.1	*	.1	.1	.1	.1	.1	.1	.1	*	*	*	.0		157	1.0
	11-21	.1	.1	.2	.2	.2	.2	.2	.2	.3	.4	.3	.3	.3	.1	.1	*	.0		508	3.1
	22<	.1	.1	.2	.1	.2	.2	.3	.2	.3	.2	.2	.2	.3	.2	.1	*	.0		440	2.7
	TOTAL	44	39	66	58	84	65	84	74	110	100	100	92	113	52	31	9	1	13	1135	7.0
5<10	0-3	*	*	*	*	*	*	*	*	.1	*	*	*	*	*	*	*	*	.2	118	.7
	4-10	.2	.1	.2	.2	.3	.1	.2	.3	.5	.3	.4	.4	.4	.2	.2	.2	.0		687	4.2
	11-21	.8	.5	.6	.5	.8	.6	.5	.6	1.1	1.1	1.5	1.4	1.6	1.1	.8	.6	.0		2287	14.1
	22<	.5	.4	.5	.3	.5	.3	.4	.4	.4	.4	.6	1.0	2.2	1.2	.6	.4	.0		1591	9.8
	TOTAL	233	167	208	164	264	172	187	206	339	296	411	455	686	419	252	182	2	40	4683	29.0
10<	0-3	.1	*	*	*	.1	*	*	*	.1	.1	.1	*	.2	.1	.1	*	.1	.6	261	1.6
	4-10	.8	.4	.5	.4	.4	.3	.4	.4	.6	.7	1.0	.9	1.2	.8	.7	.6	*		1640	10.1
	11-21	1.7	1.0	.9	.8	.9	.6	.7	.7	1.2	1.3	2.3	2.5	4.6	2.7	2.2	1.6	.0		4118	25.5
	22<	.7	.3	.3	.2	.2	.1	.2	.1	.3	.2	.5	1.3	2.9	1.8	1.1	.7	.0		1764	10.9
	TOTAL	513	275	278	227	255	160	217	211	342	359	627	773	1437	859	666	478	14	92	7783	48.1
TOTAL	841	549	647	534	768	501	692	667	1145	1039	1476	1591	2398	1389	1005	704	22	198	16166	100.0	
PCT	5.2	3.4	4.0	3.3	4.8	3.1	4.3	4.1	7.1	6.4	9.1	9.8	14.8	8.6	6.2	4.4	.1	1.2	100.0		

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1869-1968

ANNUAL

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8), AND OCCURRENCE OF NM <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	3.6	.1	.8	1.9	4.9	3.8	.8	.4	.3	.5	2903	11.1	4771
06009	2.7	.2	.7	1.8	4.0	3.4	.7	.3	.1	.4	2393	8.8	3887
12015	2.8	.2	.7	2.3	4.2	2.9	.8	.2	.3	.3	2483	8.5	3923
18021	2.9	.1	.8	2.2	4.6	3.2	.9	.3	.2	.5	2657	9.8	4316
TOT PCT	2021 12.0	109 .6	495 2.9	1371 8.1	2993 17.7	2232 13.2	546 3.2	203 1.2	167 1.0	299 1.8	10436 51.8	6461 38.2	16897 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.2	.6	.7	1.9	8.7	13.1	4590
06009	2.4	.5	.5	1.3	6.8	11.2	3716
12015	2.6	.5	.8	1.6	6.1	11.6	3777
18021	2.7	.7	.6	2.2	7.2	12.3	4171
TOT PCT	1764 10.9	385 2.4	430 2.6	1140 7.0	4691 28.9	7844 48.3	16254 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND CEILING HGT (FEET, NM >4/8), AND NM <5/8 BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ &DR5+	NH <5/8 ANY HGT	TOTAL OBS
00003	.5	3.3	4.7	13.1	10.5	4590
06009	.4	2.5	3.5	11.1	8.2	3716
12015	.3	2.7	3.9	11.3	8.0	3777
18021	.3	2.8	4.2	12.1	9.4	4171
TOT PCT	238 1.5	1843 11.3	1043 6.4	7742 47.6	5864 36.1	16254 100.0



ANNUAL

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1869-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
75/79	.0	.0	*	.0	*	.0	.0	.0	2	*
70/74	.0	.0	.0	*	*	*	*	*	19	.1
65/69	.0	*	*	*	.1	.2	.3	.6	184	1.2
60/64	*	.0	*	.1	.4	.6	1.9	3.5	999	6.6
55/59	*	.0	*	.1	.7	1.6	3.9	6.8	1988	13.1
50/54	.0	*	*	.1	1.1	1.2	3.6	6.5	1909	12.5
45/49	*	*	*	.2	.9	1.9	2.9	6.5	1901	12.5
40/44	*	*	*	.2	1.2	1.9	4.0	7.2	2230	14.7
35/39	*	*	*	.3	1.4	2.0	4.7	9.5	2718	17.9
30/34	*	*	*	.1	1.1	2.3	4.3	6.1	2134	14.0
25/29	.0	*	*	.1	.5	1.0	1.1	2.0	724	4.8
20/24	.0	.0	*	*	.1	.5	.6	.6	292	1.9
15/19	.0	.0	*	*	.1	.1	.2	.2	96	.6
10/14	.0	.0	.0	.0	*	*	*	*	17	.1
5/9	.0	.0	.0	.0	.0	.0	*	*	3	*
TOTAL	12	12	37	181	1185	2039	4210	7540	15216	100.0
PCT	.1	.1	.2	1.2	7.8	13.4	27.7	49.6		

TABLE 14

	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW				
75/79	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0
70/74	.0	*	.0	.0	*	.1	*	.0	.0	.0	.0	.0
65/69	*	*	.1	.1	.3	.5	*	.0	.0	.0	.0	.0
60/64	.2	.2	.3	.7	1.6	2.2	1.0	.3	*	*	.1	.1
55/59	.6	.7	.6	1.2	2.5	3.5	2.6	.9	*	*	.2	.2
50/54	.8	.8	1.0	1.3	2.3	2.8	2.3	1.0	*	*	.2	.2
45/49	1.0	.9	1.1	1.4	2.2	2.4	2.3	1.1	*	*	.2	.2
40/44	1.3	1.2	1.4	1.4	2.3	2.5	2.8	1.4	*	*	.2	.2
35/39	2.0	1.7	1.9	1.7	1.9	2.8	3.7	1.9	*	*	.2	.2
30/34	1.5	1.4	1.2	.9	.9	2.1	3.9	2.0	*	*	.1	.1
25/29	.5	.3	.2	.1	.2	.5	2.0	1.0	*	*	.0	.0
20/24	.2	.1	.1	*	*	.1	.9	.5	.0	.0	.0	.0
15/19	.1	*	*	.0	.0	*	.3	.2	.0	.0	.0	.0
10/14	*	*	.0	.0	.0	.0	*	.1	.0	.0	.0	.0
5/9	*	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0
TOTAL	1237	1099	1228	1342	2199	2959	3348	1572	24	208		
PCT	8.1	7.2	8.1	8.8	14.5	19.4	22.0	10.3	.2	1.4		

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
0000	73	66	61	43	26	19	8	43.4	6637
0600	77	66	62	43	27	19	9	42.6	4614
1200	76	66	62	44	27	19	9	44.2	5597
1800	78	70	64	44	27	20	5	44.4	4843
TOT	78	64	59	41	25	18	5	43.6	21691

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
0000	*	.4	2.0	4.0	7.7	15.4	88	4526		
0600	*	.3	1.6	2.6	6.2	12.0	88	3487		
1200	*	.3	1.9	3.6	6.7	11.8	87	3739		
1800	.0	.5	2.4	3.2	7.0	10.4	86	3591		
TOT	14	234	1195	2056	4245	7999	87	15343		

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1869-1968

ANNUAL

AREA 001 ARGENTINA  
45-47N 53-56W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	.0	.0	*	*	7	*	*
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	*	*	22	*	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.1	.1	.1	.1	.1	*	*	*	123	.2	.5
9/10	.0	.0	.0	.0	.0	.0	.0	*	.1	.3	.3	.2	.2	.2	.2	.1	*	.0	286	.5	1.2
7/8	.0	.0	.0	.0	.0	.0	*	.1	.6	.6	.7	.6	.5	.5	.4	.2	*	.0	699	1.1	3.1
6	.0	.0	.0	.0	.0	.0	*	.2	.5	.5	.5	.5	.5	.5	.3	.1	*	.0	619	1.0	2.7
5	.0	.0	.0	.0	.0	.0	*	.4	1.0	.7	.7	.6	.7	.7	.4	.2	*	.0	913	1.6	3.8
4	.0	.0	.0	.0	.0	.0	.1	1.1	1.2	1.0	.8	.9	.9	1.1	.5	.1	*	.0	1266	1.8	5.7
3	.0	.0	.0	.0	.0	.0	.1	1.5	1.5	1.0	.9	1.0	1.1	1.2	.6	.1	*	.0	1533	2.0	7.1
2	.0	.0	.0	.0	.0	.0	.5	2.0	1.3	1.0	1.0	1.0	1.2	1.4	.6	.1	.0	.0	1696	2.0	8.1
1	.0	.0	.0	.0	.0	.0	*	.7	2.1	1.3	1.0	.9	1.0	1.3	1.4	.4	*	.0	1714	2.2	8.0
0	.0	.0	.0	.0	.0	.1	1.2	2.0	1.4	1.0	1.2	1.1	1.2	1.0	.4	*	.0	.0	1778	1.7	8.9
-1	.0	.0	.0	.0	.0	.1	.9	1.4	.8	.8	.7	.7	1.0	.6	.2	*	.0	.0	1235	.9	6.4
-2	.0	.0	.0	.0	*	.2	1.2	1.0	.8	.7	.5	.6	.8	.5	.1	*	.0	.0	1080	.6	5.8
-3	.0	.0	.0	.0	*	.3	.9	.6	.6	.5	.4	.4	.5	.3	.1	.0	.0	.0	774	.3	4.3
-4	.0	.0	.0	.0	*	.6	.6	.6	.5	.4	.3	.4	.4	.2	*	*	.0	.0	681	.3	3.7
-5	.0	.0	.0	.0	.1	.6	.6	.4	.4	.3	.3	.2	.2	.1	*	*	.0	.0	537	.1	3.1
-6	.0	.0	.0	*	.1	.4	.5	.4	.3	.2	.2	.2	.1	*	.0	.0	.0	.0	408	.1	2.3
-7/-8	.0	.0	.0	*	.5	.8	.7	.5	.4	.2	.2	.1	.1	*	.0	*	.0	.0	603	.1	3.5
-9/-10	.0	.0	*	.1	.5	.4	.4	.3	.2	.1	.1	*	*	*	.0	.0	.0	.0	377	*	2.2
-11/-13	.0	.0	*	.3	.5	.3	.2	.2	.1	.1	*	*	*	*	.0	.0	.0	.0	293	*	1.7
-14/-16	.0	.0	.1	.2	.1	.1	.1	*	*	*	*	*	.0	.0	.0	.0	.0	.0	116	*	.7
-17/-19	.0	*	.1	.1	*	*	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	39	*	.2
-20/-22	*	*	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	.0	.1
-23/-25	.0	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	*
-26/-30	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL	1	12	41	141	319	665	1475	2507	2174	1781	1690	1606	1826	1663	728	166	26	6	16827	2805	14022
PCT	*	.1	.2	.8	1.9	4.0	8.8	14.9	12.9	10.6	10.0	9.5	10.9	9.9	4.3	1.0	.2	*	100.0	16.7	83.3

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

ANNUAL

TABLE 18

AREA 001 ARGENTIA  
45-47N 53-56W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						TOTAL	NE						
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.2	.3	.1	.0	.0	.0	24	*	.2	*	.0	.0	.0	12
1-2	*	1.0	.3	*	.0	.0	56	*	.9	.3	*	.0	.0	51
3-4	*	.6	1.4	.3	*	.0	98	*	.5	1.2	.2	*	.0	82
5-6	.0	.1	1.0	.2	*	.0	58	.0	.1	.7	.3	*	.0	46
7	.0	*	.6	.4	.1	.0	46	.0	.0	.5	.4	.1	.0	39
8-9	.0	*	.1	.3	.1	.0	22	.0	*	.1	.2	.1	.0	18
10-11	.0	.0	.1	.2	.1	*	19	.0	.0	*	.2	.0	.0	9
12	.0	.0	*	.1	*	.0	7	.0	.0	*	.2	.1	.0	13
13-16	.0	.0	.0	.1	.1	.0	10	.0	.0	*	.1	.1	*	10
17-19	.0	.0	.0	.0	*	*	3	.0	.0	.0	.0	.0	*	0
20-22	.0	.0	.0	.0	*	*	3	.0	.0	.0	.0	*	*	2
23-25	.0	.0	.0	.0	*	.0	1	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	11	86	151	71	23	5	347	3	74	117	68	18	2	282
PCT	.3	2.0	3.6	1.7	.5	.1	8.2	.1	1.7	2.8	1.6	.4	*	6.7

HGT	E						TOTAL	SE						
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.1	.2	.1	.0	.0	.0	18	.1	.5	*	.0	.0	.0	27
1-2	.1	.8	.4	*	*	.0	60	.1	1.3	.4	*	.0	.0	78
3-4	*	.8	1.4	.1	.0	.0	96	*	.5	1.2	.2	*	.0	83
5-6	.0	.2	.8	.3	*	.0	55	.0	.1	.7	.3	.0	.0	46
7	.0	*	.4	.4	.1	.0	38	.0	*	.4	.4	*	.0	39
8-9	.0	.0	.1	.3	.0	.0	15	.0	.0	.1	.2	.1	*	16
10-11	.0	.0	.0	.1	*	.0	5	.0	*	.1	.2	*	.0	15
12	.0	.0	.0	.1	.1	.0	9	.0	.0	*	.1	*	*	9
13-16	.0	.0	.0	*	.1	.0	5	.0	.0	.0	*	.2	*	12
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	11	85	134	55	16	0	301	11	103	125	62	20	3	326
PCT	.3	2.0	3.2	1.3	.4	.0	7.1	.3	2.5	3.0	1.5	.5	.1	7.7

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

ANNUAL  
TABLE 18

AREA 001 ARGENTIA  
45-47N 53-56W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.2	.9	*	.0	.0	*	47	.1	.5	.2	.0	.0	.0	32		
1-2	.1	2.2	.9	.1	.0	.0	139	.1	2.4	1.1	*	.0	.0	155		
3-4	.0	1.6	2.7	.3	.0	.0	194	*	2.3	3.8	.3	.0	.0	273		
5-6	.0	.4	2.2	.5	*	.0	131	.0	.5	2.8	.8	*	.0	172		
7	.0	*	1.2	.6	.1	.0	81	.0	.1	1.4	.6	.1	.0	97		
8-9	*	*	.2	.3	*	.0	25	*	*	.5	.5	.1	.0	52		
10-11	.0	*	.1	.4	.1	.0	26	.0	*	.4	.3	.1	*	35		
12	.0	.0	.0	.2	*	.0	10	.0	*	.1	.3	.2	.0	26		
13-16	.0	.0	*	.1	.1	*	11	.0	*	*	.3	.2	*	24		
17-19	.0	.0	.0	.0	*	.0	2	.0	.0	.0	*	.1	.0	4		
20-22	.0	.0	.0	*	.0	.0	1	.0	.0	.0	*	.1	*	8		
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	*	*	2		
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	*	*	.1	7		
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
TOTAL	15	216	308	105	21	2	667	9	252	437	139	41	9	887		
PCT	.4	5.1	7.3	2.5	.5	*	15.8	.2	6.0	10.3	3.3	1.0	.2	20.9		

HGT	W							NW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	*	.5	*	*	.0	.0	27	*	.2	.0	.0	.0	.0	12	199	
1-2	.1	1.7	1.0	.0	.0	.0	118	.1	1.0	.6	.0	.0	.0	69	726	
3-4	*	1.7	3.4	.6	*	.0	246	*	.8	1.3	.2	.0	.0	97	1169	
5-6	.0	.6	3.1	.9	*	.0	198	.0	.1	1.3	.5	*	.0	83	789	
7	.0	*	1.8	1.2	.4	*	149	.0	*	.7	.5	.1	.0	57	546	
8-9	.0	.0	.9	.9	.3	.0	85	.0	.0	.3	.5	*	.0	39	272	
10-11	.0	.0	.4	.8	.4	.0	66	.0	.0	*	.2	*	*	13	198	
12	.0	.0	.1	.6	.3	*	43	.0	.0	.1	.1	.1	.0	14	131	
13-16	.0	.0	*	.4	.5	*	45	.0	.0	.0	.3	.1	.0	17	134	
17-19	.0	.0	*	.1	.3	*	17	.0	.0	.0	.0	*	.0	1	27	
20-22	.0	.0	.0	*	.3	*	15	.0	.0	.0	.0	*	*	2	32	
23-25	.0	.0	.0	.0	.1	.0	3	.0	.0	.0	.0	.0	.0	0	6	
26-32	.0	.0	.0	*	*	.1	7	.0	.0	.0	.0	.0	.0	0	14	
33-40	.0	.0	.0	.0	.0	*	1	.0	.0	.0	.0	.0	.0	0	1	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
TOTAL	6	194	457	238	111	14	1020	7	93	185	96	21	2	404	4234	
PCT	.1	4.6	10.8	5.6	2.6	.3	24.1	.2	2.2	4.4	2.3	.5	*	9.5	100.0	

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

ANNUAL

TABLE 18 (CONT)

AREA 001 ARGENTIA  
45-47N 53-56W

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	2.5	3.4	.6	.1	.0	*	259
1-2	1.1	11.3	4.9	.2	*	.0	694
3-4	.3	8.9	16.7	2.1	.1	.0	1109
5-6	.0	2.2	12.0	3.7	.2	.0	717
7	.0	.4	7.0	4.4	.7	.1	497
8-9	.1	.1	2.2	2.9	.7	*	237
10-11	.0	.1	1.0	2.3	.5	.1	156
12	.0	*	.4	1.6	.9	*	115
13-16	.0	*	.1	1.4	1.1	.1	110
17-19	.0	.0	*	.1	.4	.1	23
20-22	.0	.0	.0	.1	.5	.2	29
23-25	.0	.0	.0	.0	.1	*	4
26-32	.0	.0	.0	*	.1	.2	11
33-40	.0	.0	.0	.0	.0	*	1
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	154	1042	1777	750	207	32	3962
PCT	3.9	26.3	44.9	18.9	5.2	.8	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.5	9.0	15.2	7.2	2.7	1.0	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1574	3
6-7	.1	.7	5.6	9.4	7.7	3.0	1.9	1.1	.8	*	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	1296	6
8-9	.0	.2	1.3	2.8	3.8	3.4	2.4	1.8	1.9	.3	.4	*	*	.0	.0	.0	.0	.0	.0	.0	787	8
10-11	.0	.2	.3	.8	1.2	.8	.9	.9	1.0	.4	.3	.1	.2	*	.0	.0	.0	.0	.0	.0	306	10
12-13	.0	*	.1	.1	.2	.1	.2	.3	.3	*	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	71	12
>13	.0	.0	.0	.1	*	.1	.1	*	.2	*	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	39	14
INDET	2.3	.3	.7	.4	.5	.1	*	*	*	*	*	.0	*	*	.0	.0	.0	.0	.0	.0	192	2
TOTAL	163	446	993	882	686	367	251	176	180	36	47	14	21	3	0	0	0	0	0	0	4265	5
PCT	3.8	10.5	23.3	20.7	16.1	8.6	5.9	4.1	4.2	.8	1.1	.3	.5	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1950-1968  
(OVER-ALL) 1878-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	4	*
69/70	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	6	*
67/68	.0	.0	.0	.0	.0	.0	.0	.9	.1	.0	.0	.0	18	.1
65/66	.0	.0	.0	.0	.0	.0	.4	2.6	.6	.0	.0	.0	64	.3
63/64	.0	.0	.0	.0	.0	.0	.5	6.1	3.4	.3	.0	.0	188	1.0
61/62	.0	.0	.0	.0	.0	.0	1.2	12.0	7.0	.4	.0	.0	377	2.0
59/60	.0	.0	.0	.0	.0	.0	3.7	19.0	10.7	1.4	.2	.0	635	3.3
57/58	.0	.0	.0	.0	.0	.1	9.6	21.0	20.0	3.4	.1	.0	981	5.1
55/56	.0	.0	.0	.0	.0	.6	11.0	19.5	22.1	6.7	.4	.1	1097	5.7
53/54	.0	.0	.0	.0	.0	.8	17.1	10.6	15.9	11.7	1.4	.0	1034	5.4
51/52	.0	.0	.0	.0	.0	2.6	16.5	4.8	10.2	17.7	3.1	.5	995	5.2
49/50	.1	.1	.0	.0	.1	4.6	16.2	1.9	5.8	20.9	8.3	.7	1053	5.5
47/48	.1	.1	.0	.0	.2	7.8	12.1	.6	2.0	16.7	11.8	1.4	942	4.9
45/46	.7	.4	.0	.3	1.3	14.7	6.0	.4	.8	13.2	19.8	4.9	1103	5.7
43/44	1.4	.0	.2	.7	3.1	18.4	3.8	.2	.5	4.8	19.5	7.5	1038	5.4
41/42	2.2	.8	.4	1.2	7.6	19.9	1.6	.0	.3	2.3	17.6	14.5	1152	6.0
39/40	6.3	2.0	1.8	2.4	13.6	17.0	.1	.0	.2	.4	11.5	20.4	1235	6.4
37/38	10.5	4.0	3.0	7.0	24.2	9.4	.1	.0	.2	.1	5.0	22.1	1346	7.0
35/36	22.3	11.6	8.7	16.0	25.4	3.5	.0	.0	.0	.2	1.1	17.8	1593	8.2
33/34	28.8	25.2	19.7	28.0	17.4	.4	.0	.0	.0	.0	.3	7.3	1782	9.2
31/32	19.5	32.2	35.8	29.4	5.9	.3	.0	.0	.0	.0	.1	1.9	1640	8.5
29/30	7.0	18.4	23.8	13.4	1.2	.0	.0	.0	.0	.0	.0	.9	832	4.3
27/28	1.3	4.2	5.3	1.5	.0	.0	.0	.0	.0	.0	.0	.1	161	.8
<27	.0	1.0	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	29	.2
TOTAL	1652	1367	1170	1150	1591	1556	1640	1797	1900	1893	1938	1620	19314	100.0
MEAN	34.4	32.5	31.9	33.3	36.8	42.8	51.8	57.7	55.6	49.9	44.1	38.8	43.5	

PERIOD: (PRIMARY) 1950-1968  
(OVER-ALL) 1878-1968

AREA 001 ARGENTIA  
45-47N 53-56W

TABLE 21  
PRESSURE (MB)

MO	AVERAGE BY HOUR (GMT)									TOTAL OBS	EXTREMES								
	0000	0300	0600	0900	1200	1500	1800	2100	MEAN		MAX	YEAR	DA	HR	MIN	YEAR	DA	HR	
JAN	1011	1012	1010	1010	1010	1008	1008	1010	1010	1010	1745	1043	1951	24	03	959	1966	18	09
FEB	1011	1009	1010	1009	1008	1008	1009	1009	1009	1009	1510	1045	1938	04	00	960	1965	20	18
MAR	1008	1008	1009	1009	1008	1009	1008	1008	1008	1008	1333	1039	1949	23	15	973	1946	12	12
APR	1013	1013	1013	1014	1012	1014	1012	1013	1013	1013	1336	1041	1949	20	03	981	1950	25	21
MAY	1015	1014	1014	1015	1015	1014	1015	1015	1015	1014	1628	1036	1944	07	00	972	1957	02	21
JUN	1014	1015	1014	1014	1014	1015	1014	1013	1014	1014	1615	1035	1930	11	12	983	1953	03	00
JUL	1016	1016	1016	1016	1016	1016	1016	1015	1016	1016	1634	1038	1955	31	12	994	1958	21	00
AUG	1016	1015	1015	1014	1015	1016	1016	1015	1015	1015	1751	1030	1947	17	12	996	1953	01	18
SEP	1017	1016	1016	1018	1017	1017	1016	1016	1016	1016	1804	1036	1963	15	18	976	1956	25	06
OCT	1016	1016	1014	1014	1015	1015	1014	1015	1015	1015	1789	1039	1957	31	12	976	1938	10	06
NOV	1015	1016	1015	1015	1015	1015	1015	1015	1015	1015	1819	1043	1966	03	00	971	1950	01	03
DEC	1013	1011	1012	1012	1012	1014	1012	1012	1012	1012	1632	1039	1951	21	06	966	1965	19	18
ANN OBS	1014 4384	1013 1350	1013 3666	1013 814	1013 3710	1013 941	1013 3643	1013 1088	1013	19596									

PERCENTILES

MO	1%	5%	25%	50%	75%	95%	99%
JAN	974	984	1000	1010	1019	1030	1036
FEB	974	988	1001	1009	1019	1031	1039
MAR	978	986	1000	1009	1017	1026	1032
APR	986	995	1004	1013	1020	1030	1038
MAY	988	999	1009	1016	1022	1030	1034
JUN	994	1000	1009	1015	1020	1026	1032
JUL	1000	1005	1012	1017	1021	1027	1031
AUG	1000	1006	1013	1018	1022	1027	1030
SEP	998	1003	1011	1017	1022	1029	1033
OCT	988	997	1009	1016	1022	1030	1034
NOV	979	995	1007	1016	1024	1033	1037
DEC	982	990	1004	1013	1021	1032	1038

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1866-1968

JANUARY

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
N	.1	.1	.1	.0	.0	.0	.0	9	.0	.0	.1	.0	2	182	.3	
NNE	.3	.1	.1	.0	.0	.0	.0	14	.0	.0	.1	.0	2	124	.5	
NE	.1	.0	*	.0	.0	.0	.0	3	.0	*	.0	.0	1	95	.1	
ENE	.1	.1	*	.0	.0	.0	.0	8	.0	.0	.0	.0	0	85	.3	
E	.1	.2	.1	.0	.0	.0	.0	11	*	.0	.0	.0	1	97	.4	
ESE	.1	.1	*	.0	.0	.0	.0	7	.0	.0	.0	.0	0	63	.3	
SE	*	*	.1	.0	.0	.0	.0	6	.0	.0	.0	.0	0	92	.2	
SSE	.3	.1	*	.0	.0	.0	.0	13	.0	.0	.0	.0	0	107	.5	
S	.6	.3	.2	.0	.0	.0	*	30	.0	.1	.1	.0	6	225	1.1	
SSW	.4	.0	.1	.0	.0	.0	.0	13	.1	.0	*	.0	4	154	.5	
SW	.3	.2	.1	.0	.0	.0	.0	17	*	.1	.3	.0	10	234	.6	
WSW	.3	.2	.2	.0	.0	.0	.0	20	.1	.0	.1	.0	6	212	.7	
W	.4	.3	.2	.0	.0	.0	.0	27	.2	*	*	.0	7	314	1.0	
WNW	.4	.3	.3	.0	.0	.0	.0	25	.0	.0	.0	.0	0	235	.9	
NW	.3	*	.2	.0	.0	.0	*	16	.1	.0	.0	.0	2	297	.6	
NNW	.2	.1	.1	.0	.0	.0	.0	12	*	.0	.0	.0	1	183	.4	
VAR	.0	.0	*	.0	.0	.0	.0	1	.0	.0	.0	.0	0	2	*	
CALM	.0	.1	.0	.0	.0	.0	.0	3	.0	.0	*	.0	1	39	.1	
TOT	113	64	56	0	0	0	2	235	18	6	19	0	43	2740		
PCT	4.1	2.3	2.0	.0	.0	.0	.1	8.6	.7	.2	.7	.0	1.6	100.0	8.6	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
00003	1.2	.8	.7	.0	.0	.0	*	77	.3	.1	.1	.0	15	779	2.8	
06009	1.2	.5	.3	.0	.0	.0	.0	56	.3	.0	.1	.0	12	683	2.0	
12015	1.1	.7	.7	.0	.0	.0	*	71	*	.1	.3	.0	11	642	2.6	
18021	.6	.3	.4	.0	.0	.0	.0	34	.0	.0	.2	.0	5	663	1.2	
TOT	114	64	58	0	0	0	2	238	18	6	19	0	43	2767		
PCT	4.1	2.3	2.1	.0	.0	.0	.1	8.6	.7	.2	.7	.0	1.6	100.0	8.6	



JANUARY

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1866-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.3	2.8	2.7	.6	.3	.0	243	6.6	13.7	5.2	6.2	6.1	6.9	8.0	17.7	7.0	1.8
NNE	.2	1.4	1.7	.4	.2	.0	143	3.9	14.3	4.1	6.2	4.0	4.2	3.3	1.6	4.3	5.5
NE	.4	2.1	1.3	.3	.1	.0	151	4.1	10.7	3.9	6.2	3.5	12.5	3.9	8.1	3.7	7.3
ENE	.2	1.7	1.1	.1	.0	.0	113	3.1	10.2	3.9	1.5	2.6	1.4	2.0	3.2	3.7	9.1
E	.5	2.2	1.3	.3	.0	.0	158	4.3	10.4	3.9	12.3	4.1	5.6	4.1	4.8	4.7	1.8
ESE	.2	2.2	1.0	.1	.0	.0	94	2.6	10.6	2.5	.0	2.7	.0	2.6	8.1	2.4	3.6
SE	.3	1.6	1.6	.1	.0	.0	134	3.7	10.9	4.6	3.1	4.0	2.8	3.2	3.2	2.8	1.8
SSE	.1	1.7	1.9	.4	.1	.0	150	4.1	13.6	4.5	3.1	3.5	2.8	4.0	1.6	4.3	7.3
S	.2	2.3	3.7	1.4	.2	.0	289	7.9	15.8	8.9	10.8	8.2	6.9	7.0	1.6	7.8	5.5
SSW	.2	1.1	2.6	1.3	.3	.0	202	5.5	17.3	5.1	4.6	6.2	8.3	6.3	4.8	4.6	1.8
SW	.4	2.7	3.7	1.5	.3	*	314	8.6	15.2	7.4	6.2	9.6	5.6	9.4	9.7	9.2	5.5
WSW	.3	1.5	3.1	1.6	.3	.0	250	6.8	17.1	7.0	3.1	7.8	4.2	6.2	4.8	7.2	9.1
W	.8	3.3	4.6	2.7	1.0	*	453	12.4	17.2	13.6	12.3	10.9	8.3	12.8	4.8	12.7	7.3
WNW	.1	1.5	2.4	2.3	1.3	.1	284	7.8	21.6	7.6	4.6	8.5	11.1	7.2	9.7	7.3	14.5
NW	.4	3.0	3.7	2.7	1.0	.1	400	10.9	18.4	11.0	15.4	8.2	16.7	11.7	12.9	11.3	9.1
NNW	.2	1.7	2.5	1.4	.2	*	219	6.0	16.5	5.1	4.6	7.9	2.8	6.2	1.6	6.1	7.3
VAR	.1	.0	.0	.0	.0	.0	2	.1	2.0	.1	.0	.2	.0	.0	.0	.0	.0
CALM	1.6						59	1.6	.0	1.7	.0	2.1	.0	1.9	1.6	.9	1.8
TOT	240	1171	1420	625	190	12	3658	100.0	15.4	1127	65	658	72	965	62	654	55
PCT	6.6	32.0	38.8	17.1	5.2	.3	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)								
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21	
N	1.7	5.6	2.3	.8	.1	386	10.6	13.9	9.3	12.3	10.0	11.1	11.3	19.4	11.3	7.3	
NE	2.2	3.9	1.1	.1	.0	264	7.2	10.5	7.8	7.7	6.1	13.9	5.9	11.3	7.3	16.4	
E	2.2	3.6	1.1	*	.0	252	6.9	10.5	6.4	12.3	6.8	5.6	6.7	12.9	7.2	5.5	
SE	1.8	3.9	1.8	.2	.0	284	7.8	12.3	9.1	6.2	7.4	5.6	7.3	4.8	7.0	9.1	
S	1.5	5.8	4.7	1.4	.1	491	13.4	16.4	13.9	15.4	14.4	15.3	13.4	6.5	12.4	7.3	
SW	2.5	6.0	5.2	1.5	.2	564	15.4	16.0	14.4	9.2	17.3	9.7	15.6	14.5	16.4	14.5	
W	2.8	6.6	6.2	3.9	.7	737	20.1	18.9	21.2	16.9	19.5	19.4	20.0	14.5	20.0	21.8	
NW	2.4	6.3	5.2	2.5	.5	619	16.9	17.7	16.1	20.0	16.1	19.4	17.9	14.5	17.4	16.4	
VAR	.1	.0	.0	.0	.0	2	.1	2.0	.1	.0	.2	.0	.0	.0	.0	.0	
CALM	1.6					59	1.6	.0	1.7	.0	2.1	.0	1.9	1.6	.9	1.8	
TOT	684	1529	1010	378	57	3658	100.0	15.4	1127	65	658	72	965	62	654	55	
PCT	18.7	41.8	27.6	10.3	1.6	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

JANUARY

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1956-1968

AREA 002 BERMUDA  
30-34N 53-67W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	1.4	11.1	13.0	4.9	1.4	.1	*	.5	14.9	32.6	1192
06&09	.6	6.1	8.3	3.2	1.3	.1	*	.4	16.0	20.0	730
12&15	2.1	9.0	9.8	5.1	1.4	.1	.0	.5	14.8	28.1	1027
18&21	.7	5.8	7.7	3.8	1.1	.1	.0	.2	16.4	19.4	709
TOT	179	1171	1420	625	190	12	2	59	15.4		3658
PCT	4.9	32.0	38.8	17.1	5.2	.3	.1	1.6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION					MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	
N	.9	1.0	3.4	1.6	176	5.7
NNE	.9	.7	1.3	1.2	107	5.2
NE	.9	.8	.9	.9	93	4.6
ENE	1.0	.7	1.0	.8	91	4.6
E	1.0	1.1	1.6	.6	111	4.6
ESE	.9	.7	.5	.7	70	4.4
SE	.8	.4	1.4	.8	86	5.0
SSE	.8	.7	1.4	1.0	100	5.3
S	1.6	1.2	2.7	2.5	206	5.4
SSW	.9	.5	2.6	1.5	142	5.6
SW	1.5	1.5	2.8	2.2	207	5.3
WSW	1.9	1.4	2.5	1.9	197	4.9
W	2.3	2.7	3.9	2.3	284	4.9
WNW	.6	1.4	4.2	2.0	213	5.8
NW	1.5	2.3	4.4	2.6	276	5.3
NNW	.8	1.3	3.2	1.5	174	5.5
VAR	.0	.0	.0	.0	0	.0
CALM	.8	.2	.2	*	31	2.4
TOT	488	482	975	619	2564	5.2
PCT	19.0	18.8	38.0	24.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION												NH <5/8 ANY HGT	TOTAL OBS
000	150	300	600	1000	2000	3500	5000	6500	8000+				
149	299	599	999	1999	3499	4999	6499	7999					
.0	.0	.2	.9	.9	1.0	.5	.1	.1	*	3.1	176		
.0	.0	.1	.3	.7	.6	.2	.0	.0	.0	2.2	107		
.0	.0	*	.1	.6	.5	.1	*	.0	*	2.2	93		
*	*	.0	.2	.6	.4	.1	*	.0	.0	2.1	91		
.0	.0	.0	.2	.5	.6	.2	.0	*	.0	2.8	111		
.0	.0	.0	*	.2	.3	.1	.1	*	*	1.9	70		
.0	.0	*	.2	.5	.5	.2	*	.0	.1	1.8	86		
.0	.0	.0	.1	.6	.5	.3	.0	*	.0	2.4	100		
*	.0	.1	.7	1.5	1.1	.4	*	.0	*	4.2	206		
.1	.0	.2	.8	.7	.6	.2	.0	*	.2	2.7	142		
.1	.0	.2	.5	1.0	.9	.1	*	.1	.1	5.0	207		
*	.0	.2	.5	1.3	.6	.5	.1	.1	*	4.3	197		
.1	.0	.2	.7	2.1	.9	.2	.1	*	*	6.7	284		
.1	*	.1	1.1	2.1	1.2	.4	.1	.2	.0	3.1	213		
*	.0	.2	1.3	1.7	2.0	.5	.1	.1	*	4.9	276		
.0	.0	.0	.9	1.3	1.2	.3	.2	.1	.0	2.8	174		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0		
.0	.0	.0	*	.0	*	*	.0	.1	*	1.0	31		
15	2	38	221	421	329	109	23	22	16	1368	2564		
.6	.1	1.5	8.6	16.4	12.8	4.3	.9	.9	.6	33.4	100.0		

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1866-1968

JANUARY

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	.9	1.5	1.5	1.5	1.5	1.5	1.5
= OR >5000	1.7	2.4	2.4	2.4	2.4	2.4	2.4
= OR >3500	5.3	6.6	6.6	6.6	6.6	6.6	6.6
= OR >2000	14.2	19.0	19.4	19.5	19.5	19.5	19.5
= OR >1000	25.7	34.5	35.7	35.9	35.9	35.9	35.9
= OR >600	31.3	42.6	44.2	44.5	44.5	44.5	44.5
= OR >300	31.9	43.9	45.7	45.9	45.9	45.9	45.9
= OR >150	32.0	44.0	45.7	46.0	46.0	46.0	46.0
= OR > 0	32.3	44.4	46.1	46.5	46.5	46.6	46.6
TOTAL	829	1139	1164	1193	1194	1195	1196

TOTAL NUMBER OF OBS: 2566

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
8.0	8.8	15.6	11.9	10.3	9.7	11.3	8.8	15.1	.6	2787

JANUARY

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1866-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	2	.1
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2	.1
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.0	2	.1
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2	.1
1<2	PCP	*	.0	.0	*	.0	.0	.0	.0	.0	*	*	.0	.0	.0	*	.0	.0	.0	5	.2
	NO PCP	.0	.0	.0	.0	*	.0	.0	.0	*	*	.0	.0	*	.0	.0	.0	.0	.0	4	.2
	TOTAL	1	0	0	1	1	0	0	0	1	2	1	0	1	0	1	0	0	0	9	.4
2<5	PCP	*	*	.0	*	*	*	*	.0	.4	*	.1	.2	*	.0	.1	.2	.0	.0	31	1.3
	NO PCP	*	.0	*	*	.0	.0	.0	.1	.1	*	.1	.1	.2	.0	.1	.1	.0	.0	22	.9
	TOTAL	2	1	1	2	1	1	1	3	12	2	4	6	5	0	5	7	0	0	53	2.2
5<10	PCP	.1	.1	.0	.1	.2	.1	.0	.2	.2	.3	.1	.3	.2	.5	.1	.1	.0	.0	64	2.7
	NO PCP	.9	.3	.4	.3	.3	.4	.3	.4	1.5	1.3	1.4	1.2	1.5	2.1	2.2	1.1	.0	.2	373	15.7
	TOTAL	24	10	10	9	12	11	6	13	41	38	37	36	41	62	55	27	0	5	437	18.4
10<>	PCP	*	.1	*	.1	*	.1	.0	.1	.2	*	.3	.1	.3	.3	.2	.1	.0	.0	47	2.0
	NO PCP	5.8	3.7	2.9	2.7	3.0	1.8	2.7	3.0	5.4	3.8	6.2	6.1	9.0	5.6	8.5	5.6	.0	1.0	1819	76.8
	TOTAL	139	89	70	65	73	45	64	75	133	90	153	146	221	140	205	134	0	24	1866	78.8
	TOTAL PCT	166	100	81	77	87	57	71	91	188	132	195	188	270	203	266	168	0	29	2369	100.0
		7.0	4.2	3.4	3.3	3.7	2.4	3.0	3.8	7.9	5.6	8.2	7.9	11.4	8.6	11.2	7.1	.0	1.2	100.0	

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1866-1968

JANUARY

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	.0
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	.0
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	1	0	0	1	1	0	0	0	1	2	1	0	1	0	1	0	0	0	0	.0
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
2<5	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.1	.0	.0	.1	.0	.0	.0	.0	.3	.0	.1	.0	.0	.0	.1	.0	.0	.0	0	.0
	22&>	.0	.0	.0	.0	.0	.0	.0	.1	.2	.1	.1	.2	.2	.0	.1	.1	.0	0	0	.0
	TOTAL	2	1	1	2	1	1	1	3	12	2	4	6	5	0	5	7	0	0	5	.2
	0-3	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.0	.0	0	.0
5<10	4-10	.2	.1	.0	.1	.1	.1	.1	.2	.1	.1	.1	.2	.3	.3	.5	.6	.0	.0	0	.0
	11-21	.5	.2	.3	.3	.3	.3	.1	.3	1.0	.7	.9	.6	.4	.5	.5	.6	.0	.0	0	.0
	22&>	.2	.1	.1	.0	.0	.0	.0	.1	.5	.7	.4	.7	1.0	1.6	1.5	.4	.0	.0	6	.0
	TOTAL	26	10	11	9	13	12	6	15	44	39	38	36	42	62	57	28	0	0	18	.7
	0-3	.2	.1	.1	.1	.3	.2	.2	.0	.1	.1	.1	.2	.3	.1	.2	.2	.0	1.0	85	3.3
10&>	4-10	2.0	1.0	1.4	1.4	1.6	.9	1.1	1.3	1.6	.5	1.3	1.1	1.4	.7	1.6	.8	.0	0	512	20.0
	11-21	2.7	2.1	1.6	1.4	1.8	1.1	1.8	1.6	3.2	2.2	3.6	3.0	4.7	2.3	3.8	2.9	.0	0	1023	39.9
	22&>	.7	.5	.2	.1	.1	.1	.1	.3	.8	1.0	1.3	1.7	2.7	2.8	2.7	1.5	.0	0	426	16.6
	TOTAL	147	96	82	79	96	57	80	82	147	99	164	155	234	150	214	139	0	25	2046	79.7
TOTAL		176	107	94	91	111	70	87	100	205	142	207	197	284	213	277	174	0	31	2566	100.0
PCT		6.9	4.2	3.7	3.5	4.3	2.7	3.4	3.9	8.0	5.5	8.1	7.7	11.1	8.3	10.8	6.8	.0	1.2	100.0	

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1866-1968

JANUARY

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00&03	.2	*	.4	2.2	3.9	2.7	1.1	.1	.1	.4	305	15.5	728
06&09	.2	*	.3	1.9	3.7	3.0	.8	.3	.1	.1	288	13.7	662
12&15	.1	.0	.4	1.5	4.2	3.3	1.0	.1	.3	*	299	12.5	639
18&21	*	.0	.3	2.6	3.7	3.1	1.1	.3	.2	.1	311	14.1	694
TOT	15	2	38	224	424	330	109	23	22	16	1203	1520	2723
PCT	.6	.1	1.4	8.2	15.6	12.1	4.0	.8	.8	.6	44.2	55.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00&03	*	*	.2	.5	4.7	21.0	683
06&09	.0	*	.1	.5	4.3	19.6	632
12&15	*	.0	*	.7	4.6	18.4	612
18&21	.0	.0	.1	.4	4.1	20.9	659
TOT	2	2	9	53	455	2065	2586
PCT	.1	.1	.3	2.0	17.6	79.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HR	<150	<600	1000	1000+	NH <5/8	TOTAL
(GMT)	<50YD	<1	<5	60R5+	ANY HGT	OBS
00&03	*	*	.3	11.5	14.7	683
06&09	.0	*	.1	11.0	13.3	632
12&15	.0	*	.2	11.4	12.1	612
18&21	.0	.0	.2	11.8	13.5	659
TOT	1	3	18	1182	1384	2586
PCT	*	.1	.7	49.7	53.5	100.0

JANUARY

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1866-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
80/84	.0	.0	.0	.0	.1	.0	.0	*	4	.1
75/79	.0	.0	*	.2	.1	.2	.2	.1	22	.8
70/74	.0	*	*	.4	2.1	2.5	3.2	4.1	360	12.3
65/69	*	.1	.3	2.7	8.6	12.8	11.8	8.5	1307	44.8
60/64	*	.0	.8	4.9	11.9	6.3	5.1	4.7	984	33.8
55/59	.0	.0	.1	.8	1.6	2.4	1.7	.7	213	7.3
50/54	.0	.0	*	.0	.1	.3	.3	.1	24	.8
40/44	.0	.0	.0	.0	*	.0	.0	.0	1	*
TOTAL	2	3	36	262	718	715	649	530	2915	100.0
PCT	.1	.1	1.2	9.0	24.6	24.5	22.3	18.2		

TABLE 14

	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW				
80/84	.0	.0	*	.0	*	*	*	.0	.0	.0	.0	.0
75/79	*	*	*	.1	.2	.1	.1	.2	.0	.0	.0	.0
70/74	.2	.5	.9	1.7	4.0	3.3	1.2	.4	.0	.1	.1	.1
65/69	3.5	3.6	4.1	4.6	7.3	8.2	8.2	4.4	.1	.8	.8	.8
60/64	5.5	2.7	1.9	1.5	1.7	2.9	8.4	8.3	.0	.8	.8	.8
55/59	1.4	.2	.1	.1	.1	.1	2.2	3.2	.0	*	*	*
50/54	.1	.0	.0	*	*	*	.4	.2	.0	.0	.0	.0
40/44	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0
TOTAL	312	206	206	236	389	425	602	488	2	49	2	49
PCT	10.7	7.1	7.1	8.1	13.3	14.6	20.7	16.7	.1	1.7	.1	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00&03	80	74	72	66	58	54	45	65.1	1185
06&09	76	74	71	65	58	54	43	64.6	724
12&15	77	75	72	66	58	52	48	64.6	1019
18&21	82	77	72	66	58	55	52	66.5	696
TOT	82	75	72	65	57	53	43	65.2	3624

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00&03	*	2.7	6.9	8.4	7.3	6.2	76	929
06&09	*	2.4	5.1	4.9	5.2	3.5	75	623
12&15	.0	2.3	6.0	6.7	1.0	6.2	77	796
18&21	.0	3.1	6.6	4.4	3.7	2.3	72	591
TOT	2	308	725	719	653	532	75	2939

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1866-1968

JANUARY

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 17

AIR-SEA TMP DIF	PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)									OCCURRENCE OF FOG		
	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	*	.0	.0	1	.0	*
9/10	.0	.0	.0	.0	.0	.0	.0	.1	*	4	.0	.2
7/8	.0	.0	.0	.0	.1	*	.2	.2	.0	13	.0	.5
6	.0	.0	.0	.0	*	.2	*	.1	.0	8	*	.3
5	.0	.0	.0	.0	.0	.3	.2	*	.0	12	.0	.5
4	.0	.0	.0	.0	.1	.5	.2	.0	.0	21	.0	.9
3	.0	.0	.0	*	.3	.7	.3	.0	.0	31	.0	1.3
2	.0	.0	.0	*	.8	2.4	.3	*	.0	84	.1	3.4
1	.0	.0	.0	.1	1.3	3.1	.3	.0	.0	115	*	4.8
0	.0	.0	*	.4	3.3	3.7	.1	*	.0	180	.0	7.6
-1	.0	.0	.0	.7	3.7	4.1	.1	*	.0	203	.0	8.6
-2	.0	.0	*	1.5	7.3	2.0	.0	.0	.0	258	.0	10.9
-3	.0	.0	.1	1.9	5.3	1.7	.0	.0	.0	215	.0	9.1
-4	.0	*	.2	3.8	5.0	.6	.0	.0	.0	229	.0	9.7
-5	.0	.0	.5	4.2	4.2	.3	*	.0	.0	218	.0	9.2
-6	.0	.0	.6	5.0	1.8	.1	.0	.0	.0	180	.0	7.6
-7/-8	*	*	2.8	7.0	1.9	.1	*	.0	.0	283	.0	11.9
-9/-10	*	.2	3.6	3.0	.5	.0	.0	.0	.0	173	.0	7.3
-11/-13	*	1.0	2.3	.7	.1	.0	.0	.0	.0	98	.0	4.1
-14/-16	.3	.6	.3	.1	*	.0	.0	.0	.0	33	.0	1.4
-17/-19	.2	.2	*	.0	.0	.0	.0	.0	.0	10	.0	.4
-20/-22	.0	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	14	49	251	677	848	472	45	13	1	2370	4	2366
PCT	.6	2.1	10.6	28.6	35.8	19.9	1.9	.5	*	100.0	.2	99.8



PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

JANUARY

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						TOTAL	NE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.1	.7	.1	.0	.0	.0	7	.0	.4	.1	.0	.0	.0	4
1-2	.0	2.1	1.3	.1	.0	.0	24	.0	2.4	.4	.0	.0	.0	19
3-4	.0	2.1	1.5	.1	.0	.0	25	.0	.7	.9	.0	.0	.0	11
5-6	.0	.6	1.0	.4	.1	.0	15	.0	.3	.6	.0	.0	.0	6
7	.0	.7	.3	.4	.3	.0	12	.0	.0	.1	.1	.0	.0	2
8-9	.0	.1	.3	.0	.3	.0	5	.0	.0	.3	.0	.0	.0	2
10-11	.0	.0	.1	.1	.0	.0	2	.0	.1	.0	.0	.0	.0	1
12	.0	.0	.3	.1	.0	.0	3	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.1	.0	.0	1	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.4	.0	3	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	4.3	3.4	1.1	.8	.0	97	0	27	17	1	0	0	45
PCT	.1	6.4	5.1	1.6	1.2	.0	14.5	.0	4.0	2.5	.1	.0	.0	6.7

HGT	E						TOTAL	SE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.0	.7	.0	.0	.0	.0	5	.0	.4	.0	.0	.0	.0	3
1-2	.1	2.1	1.0	.0	.0	.0	22	.0	.9	.3	.0	.0	.0	8
3-4	.3	.9	.6	.1	.0	.0	13	.0	.4	1.6	.0	.0	.0	14
5-6	.0	.1	.6	.0	.0	.0	5	.0	.1	.9	.1	.0	.0	8
7	.0	.0	.6	.1	.0	.0	5	.0	.0	.0	.3	.0	.0	2
8-9	.0	.0	.0	.0	.0	.0	0	.0	.1	.1	.0	.0	.0	2
10-11	.0	.0	.0	.3	.0	.0	2	.0	.0	.1	.0	.0	.0	1
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.1	.0	.0	1
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	3	2.6	1.9	.4	.0	.0	52	0	1.4	2.1	.4	0	0	3.9
PCT	.4	3.9	2.8	.6	.0	.0	7.8	.0	2.1	3.1	.6	.0	.0	5.8

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

JANUARY

TABLE 18

AREA 002 BERMUDA  
30-34N 63-67W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.0	.3	.0	.0	.0	.0	2	.0	.3	.0	.0	.0	.0	2		
1-2	.0	.6	.7	.0	.0	.0	9	.0	2.1	1.0	.1	.0	.0	22	30	
3-4	.0	1.2	1.8	.4	.1	.0	24	.0	.3	1.6	1.0	.0	.0	20	145	
5-6	.0	.3	3.0	.1	.0	.0	23	.0	.1	1.0	1.0	.0	.0	15	156	
7	.0	.1	.9	1.3	.0	.0	16	.0	.0	1.0	.7	.0	.0	12	108	
8-9	.0	.0	.1	1.0	.1	.0	9	.0	.1	.1	.1	.0	.0	3	80	
10-11	.0	.0	.0	.4	.3	.0	5	.0	.0	.0	.4	.1	.0	4	36	
12	.0	.1	.0	.0	.0	.0	1	.0	.0	.1	.1	.1	.0	3	30	
13-16	.0	.0	.0	.0	.1	.0	1	.0	.0	.0	.0	.1	.1	2	24	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.3	.0	2	33	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	14	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	6	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.1	.0	1	2	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	4	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
TOTAL	.0	18	44	23	5	0	90	.0	20	34	25	6	1	86	668	
PCT	.0	2.7	6.6	3.4	.7	.0	13.5	.0	3.0	5.1	3.7	.9	.1	12.9	100.0	

HGT	W							NW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.3	.6	.0	.0	.0	.0	6	.1	.0	.0	.0	.0	.0	1	30	
1-2	.0	2.1	1.0	.0	.0	.0	21	.0	2.2	.6	.1	.0	.0	20	145	
3-4	.1	1.5	1.5	.0	.6	.0	25	.0	.9	2.2	.4	.0	.0	24	156	
5-6	.0	.4	1.2	1.0	.1	.0	19	.0	.0	.9	1.3	.3	.0	17	108	
7	.0	.4	.7	1.0	.0	.0	15	.0	.3	1.0	.9	.1	.0	16	80	
8-9	.0	.0	.6	.4	.6	.0	11	.0	.0	.3	.3	.0	.0	4	36	
10-11	.0	.0	.3	.4	.3	.0	7	.0	.1	.1	.9	.0	.0	8	30	
12	.0	.0	.0	.9	.1	.1	8	.0	.0	.3	.7	.1	.0	8	24	
13-16	.0	.0	.1	1.8	.6	.1	18	.0	.0	.0	.7	.4	.4	11	33	
17-19	.0	.0	.0	.6	.1	.0	5	.0	.0	.0	.3	.3	.0	4	14	
20-22	.0	.0	.0	.0	.1	.0	1	.0	.0	.0	.1	.6	.0	5	6	
23-25	.0	.0	.0	.0	.1	.0	1	.0	.0	.0	.1	.0	.0	1	2	
26-32	.0	.0	.0	.0	.4	.0	3	.0	.0	.0	.0	.0	.0	0	4	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
TOTAL	.3	34	37	42	22	2	140	.1	24	37	41	13	3	119	668	
PCT	.4	5.1	5.5	6.3	3.3	.3	21.0	.1	3.6	5.5	6.1	1.9	.4	17.8	100.0	

JANUARY

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)							
HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	1.3	3.5	.3	.0	.0	.0	35
1-2	.4	14.3	6.5	.4	.0	.0	147
3-4	.6	8.0	11.7	2.2	.7	.0	157
5-6	.1	2.1	9.2	4.1	.6	.0	109
7	.0	1.6	4.7	5.0	.4	.0	80
8-9	.0	.4	1.9	1.9	1.0	.0	36
10-11	.0	.3	.7	2.7	.7	.0	30
12	.0	.1	.7	2.1	.4	.1	24
13-16	.0	.0	.1	2.7	1.3	.7	33
17-19	.0	.0	.0	.9	1.2	.0	14
20-22	.0	.0	.0	.1	.7	.0	6
23-25	.0	.0	.0	.1	.1	.0	2
26-32	.0	.0	.0	.0	.6	.0	4
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	17	206	243	151	54	6	677
PCT	2.5	30.4	35.9	22.3	8.0	.9	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.3	9.1	10.0	5.5	3.0	1.1	.8	.6	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	223	3
6-7	.0	1.1	5.8	7.2	7.4	2.0	2.3	1.6	1.6	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	206	6
8-9	.0	.6	1.3	1.1	4.5	3.1	2.1	2.4	2.4	.8	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	135	9
10-11	.0	.0	.8	1.6	1.1	2.5	1.1	.8	1.3	1.0	.4	.0	1.1	.0	.1	.0	.0	.0	.0	.0	85	11
12-13	.0	.0	.3	.1	.1	.6	.4	.4	.3	.0	.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	21	12
>13	.0	.0	.6	.0	.1	.7	.4	.4	.3	.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	16	11
INDET	1.7	.1	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	1
TOTAL	21	77	138	112	116	71	49	41	42	14	9	3	13	0	1	0	0	0	0	0	707	6
PCT	3.0	10.9	19.5	15.8	16.4	10.0	6.9	5.8	5.9	2.0	1.3	.4	1.8	.0	.1	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1869-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OBS TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
N	.1	.1	*	.0	.0	.0	.0	6	.0	.0	.0	.0	0	185	.3	
NNE	.2	.0	.1	.0	.0	.0	.0	8	.0	.0	*	.0	1	101	.3	
NE	.2	.1	.1	.0	.0	.0	.0	9	.0	.0	*	.0	1	88	.4	
ENE	.1	.0	.0	.0	.0	.0	.0	2	.0	.0	*	.0	1	48	.1	
E	.3	.0	*	.0	.0	.0	.0	8	.0	.0	*	.0	1	77	.3	
ESE	.1	.0	*	.0	.0	.0	.0	3	.0	.0	*	.0	1	30	.1	
SE	.3	*	.1	.0	.0	.0	.0	10	.0	.0	.0	.0	0	60	.4	
SSE	.3	.2	.1	.0	.0	.0	.0	13	.0	.0	*	.0	1	90	.6	
S	.7	.1	.2	.0	.0	.0	*	25	.1	*	*	.0	5	184	1.1	
SSW	.6	.1	.2	.0	.0	.0	.0	23	.0	*	.1	.0	4	145	1.0	
SW	.7	.2	.1	.0	.0	.0	.0	24	.0	*	.2	.0	6	203	1.0	
WSW	.3	.2	*	.0	.0	.0	.0	11	.1	.0	*	.0	4	178	.5	
W	.6	.4	.1	.0	.0	.0	*	27	.1	.0	.1	.0	6	297	1.2	
WNW	.3	.2	*	.0	.0	.0	.0	11	.1	.0	.0	.0	2	204	.5	
NW	.2	.4	*	.0	.0	.0	.0	16	.0	.0	.1	.0	3	252	.7	
NNW	.1	.3	*	.0	.0	.0	.0	12	*	.0	.0	.0	1	148	.5	
VAR	.0	*	*	.0	.0	.0	.0	2	.0	.0	.0	.0	0	9	.1	
CALM	*	.0	.0	.0	.0	.0	.0	1	.0	*	*	.0	2	30	*	
TOT	119	56	34	0	0	0	2	211	12	4	23	0	39	2329		
PCT	5.1	2.4	1.5	.0	.0	.0	.1	9.1	.5	.2	1.0	.0	1.7	100.0	9.1	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OBS TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
00&03	1.6	.6	.4	.0	.0	.0	.1	62	.2	.0	.3	.0	12	625	2.7	
06&09	1.3	.6	.3	.0	.0	.0	.0	52	.3	.0	.1	.0	9	587	2.2	
12&15	1.2	1.0	.5	.0	.0	.0	.0	64	*	.0	.5	.0	12	571	2.7	
18&21	.9	.3	.2	.0	.0	.0	.0	33	.0	.2	.1	.0	6	553	1.4	
TOT	119	56	34	0	0	0	2	211	12	4	23	0	39	2336		
PCT	5.1	2.4	1.5	.0	.0	.0	.1	9.0	.5	.2	1.0	.0	1.7	100.0	9.0	

FEBRUARY

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1869-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.4	2.7	3.9	1.0	.1	.0	245	8.1	14.1	8.4	15.0	6.6	12.2	7.6	.0	9.1	17.1
NNE	.2	1.2	2.6	.6	*	.0	138	4.6	14.4	4.4	5.0	4.5	2.4	4.1	15.8	5.3	.0
NE	.3	1.2	1.8	.4	*	.0	111	3.7	13.6	3.5	.0	3.8	.0	4.0	.0	4.4	.0
ENE	.2	.9	.7	.1	.1	.0	59	1.9	12.4	1.7	.0	2.2	.0	3.0	.0	.9	.0
E	.3	1.5	1.2	.2	.0	.0	99	3.3	11.0	3.2	2.5	3.4	2.4	2.9	5.3	3.8	2.9
ESE	.1	.8	.3	*	.0	.0	36	1.2	10.4	.9	.0	1.4	4.9	.8	.0	1.7	5.7
SE	.2	1.5	1.4	*	*	.0	94	3.1	11.3	4.0	.0	3.0	.0	3.1	.0	2.5	.0
SSE	.2	1.1	1.6	.5	.0	.0	104	3.4	13.9	2.4	7.5	5.0	4.9	2.7	10.5	4.0	2.9
S	.4	2.3	3.5	1.4	.3	.0	237	7.8	15.6	7.5	7.5	6.8	4.9	8.3	13.2	7.8	20.0
SSW	.2	1.6	2.4	1.6	.2	.1	191	6.3	17.4	7.3	2.5	5.0	2.4	6.3	5.3	6.8	2.9
SW	.3	2.4	4.8	1.9	.3	.0	295	9.7	16.3	10.4	5.0	11.1	.0	10.1	13.2	7.8	2.9
WSW	.1	2.0	3.3	1.4	.3	.1	221	7.3	17.2	7.9	2.5	7.7	9.8	6.7	7.9	6.8	5.7
W	.6	3.1	4.8	2.7	1.1	.2	379	12.5	18.5	12.1	17.5	11.1	14.6	13.0	2.6	14.2	8.6
WNW	.1	1.3	3.9	2.4	.7	.0	253	8.3	19.8	7.4	7.5	8.4	12.2	8.5	13.2	8.9	11.4
NW	.1	2.3	4.7	3.0	.6	.1	328	10.8	18.5	10.3	15.0	10.9	9.8	11.3	7.9	10.4	17.1
NNW	.2	1.1	3.4	1.3	.3	*	190	6.3	17.5	7.0	5.0	7.0	14.6	6.2	5.3	4.4	.0
VAR	.2	.1	.0	.0	.0	.0	9	.3	2.9	.2	2.5	.7	.0	.0	.0	.2	2.9
CALM	1.4						43	1.4	.0	1.4	5.0	1.3	4.9	1.5	.0	1.1	.0
TOT	163	818	1346	568	122	15	3032	100.0	16.1	932	40	558	41	860	38	528	35
PCT	5.4	27.0	44.4	18.7	4.0	.5	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	1.9	6.1	4.0	.6	.0	383	12.6	14.2	12.8	20.0	11.1	14.6	11.6	15.8	14.4	17.1
NE	.9	3.0	1.5	.2	.0	170	5.6	13.2	5.3	.0	5.9	.0	7.0	.0	5.3	.0
E	1.4	2.3	.6	.1	.0	135	4.5	10.8	4.1	2.5	4.8	7.3	3.7	5.3	5.5	8.6
SE	1.3	3.5	1.6	.2	.0	198	6.5	12.7	.3	7.5	8.1	4.9	5.8	10.5	6.4	2.9
S	2.0	5.8	4.5	1.6	.2	428	14.1	16.4	14.8	10.0	11.8	7.3	14.5	18.4	14.6	22.9
SW	1.8	7.1	6.1	1.7	.2	516	17.0	16.7	18.3	7.5	18.8	9.8	16.9	21.1	14.6	8.6
W	2.2	7.5	7.1	3.2	.9	632	20.8	19.0	19.5	25.0	19.5	26.8	21.5	15.8	23.1	20.0
NW	1.5	6.7	6.6	2.0	.3	518	17.1	18.1	17.3	20.0	17.9	24.4	17.4	13.2	14.8	17.1
VAR	.3	.0	.0	.0	.0	9	.3	2.9	.2	2.5	.7	.0	.0	.0	.2	2.9
CALM	1.4					43	1.4	.0	1.4	5.0	1.3	4.9	1.5	.0	1.1	.0
TOT	444	1275	972	296	45	3032	100.0	16.1	932	40	558	41	860	38	528	35
PCT	14.6	42.1	32.1	9.8	1.5	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1869-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00003	1.3	9.8	13.3	5.9	1.1	.2	.1	.5	15.5	32.1	972
06009	.3	4.8	9.8	3.5	.8	*	.1	.3	16.4	19.8	599
12015	1.6	8.2	12.7	5.3	1.2	.1	.0	.4	15.6	29.6	898
18021	.5	4.1	8.6	4.0	1.0	.2	.1	.2	17.6	18.6	563
TOT	113	816	1346	568	122	15	9	43	16.1		3032
PCT	3.7	26.9	44.4	18.7	4.0	.5	.3	1.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION					MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	
N	1.2	1.9	3.2	2.1	174	5.4
NNE	.6	1.0	1.4	1.2	85	5.4
NE	.7	.8	.8	1.4	76	5.4
ENE	.5	.4	.6	.5	42	5.0
E	.8	.4	1.2	1.0	70	5.3
ESE	.4	.2	.5	.2	27	4.5
SE	.8	.3	.6	1.0	56	5.0
SSE	.8	.4	1.2	1.7	85	5.8
S	1.4	1.0	2.5	3.3	170	5.7
SSW	1.1	1.0	1.4	2.5	124	5.6
SW	1.7	1.3	2.2	2.9	168	5.2
WSW	1.3	1.9	2.1	2.3	158	5.2
W	2.3	2.5	4.6	3.2	260	5.2
WNW	1.4	1.9	4.1	1.6	188	5.1
NW	1.4	2.7	4.8	2.2	232	5.2
NNW	.8	1.5	3.0	1.3	137	5.3
VAR	.0	*	.1	.1	7	7.0
CALM	.5	.2	.2	.1	21	3.3
TOT	364	405	716	595	2080	5.3
PCT	17.5	19.5	34.4	28.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION														NH <5/8 ANY HGT	TOTAL OBS
000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+						
*	*	*	.8	2.1	1.1	.2	.3	.1	.0	3.6	174				
.1	.0	.1	.3	.7	.6	.0	*	*	*	2.2	85				
.0	.0	.1	.4	.8	.4	.1	.0	.0	.0	1.9	76				
.0	.0	.0	.2	.1	.3	.1	.0	.0	.0	1.3	42				
.0	.0	.1	.2	.5	.5	.2	.0	*	*	1.7	70				
.0	.0	.1	*	.2	.1	*	.0	.0	.0	.8	27				
.0	.0	*	.2	.6	.2	*	.0	.0	.1	1.4	56				
.0	.0	*	.4	.5	.9	*	.0	*	*	2.1	85				
.1	.0	.2	.8	1.8	.7	.3	.1	.0	.1	3.9	170				
.0	*	.1	.8	.8	.6	.3	.1	.0	.1	3.1	124				
.1	*	.2	1.1	.8	.5	.2	*	*	*	4.4	168				
.0	.0	.1	.8	1.5	.6	.3	.0	*	*	4.2	158				
.1	.2	.2	1.2	1.9	1.9	.4	.0	*	.2	6.3	260				
.1	.0	.1	.8	1.4	1.4	.3	*	.0	.2	4.6	188				
*	*	.3	.9	1.9	1.5	.4	.1	.0	.4	5.5	232				
.1	.0	.1	.7	1.3	1.3	.1	.0	*	.0	3.0	137				
.0	.0	.0	.0	.1	*	.1	*	.0	.0	*	7				
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.9	21				
15	8	41	199	355	264	77	22	9	31	1059	2080				
.7	.4	2.0	9.6	17.1	12.7	3.7	1.1	.4	1.5	50.9	100.0				

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PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1869-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	1.1	1.8	1.9	1.9	1.9	1.9	1.9
= OR >5000	1.8	2.9	3.0	3.0	3.0	3.0	3.0
= OR >3500	4.7	6.6	6.7	6.7	6.7	6.7	6.7
= OR >2000	13.7	18.9	19.2	19.3	19.3	19.3	19.3
= OR >1000	25.3	35.2	36.0	36.2	36.3	36.3	36.3
= OR >600	32.0	44.1	45.4	45.6	45.8	45.9	45.9
= OR >300	32.9	45.7	47.2	47.5	47.6	47.8	47.8
= OR >150	33.1	46.1	47.6	47.9	48.0	48.2	48.2
= OR > 0	33.3	46.6	48.3	48.6	48.7	48.9	48.9
TOTAL	695	974	1009	1015	1018	1021	1021

TOTAL NUMBER OF OBS: 2089

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.0	7.7	13.6	12.1	11.1	8.9	12.4	8.6	18.1	.5	2243

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PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1869-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	2	.1
	NO PCP	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	3	.1
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	1	*
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	2	.1
	TOTAL	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	3	.1
1<2	PCP	.0	.0	.0	.0	.0	*	.0	.0	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	5	.2
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	0	0	0	0	0	1	0	0	1	2	1	0	1	0	0	0	0	0	0	6	.3
2<5	PCP	.0	*	*	.0	.0	.0	.1	.0	.2	.1	.1	*	.1	.0	.0	.1	.0	.0	.0	20	1.0
	NO PCP	.0	*	.0	.0	.0	.0	.0	.0	.1	.1	.2	.0	.1	.0	.3	.0	.0	.0	.0	19	.9
	TOTAL	0	2	1	0	0	0	2	0	6	6	7	1	6	0	6	2	0	0	0	39	1.9
5<10	PCP	*	.1	*	.0	.1	*	.1	.3	.5	.4	.3	.2	.1	.3	.1	*	.0	.0	.0	62	3.1
	NO PCP	2.0	.9	.4	.4	.3	.2	.3	1.1	1.7	1.0	1.4	1.5	2.0	1.5	1.6	1.0	.0	.3	.3	361	17.8
	TOTAL	42	22	10	8	8	6	9	29	45	30	34	36	43	36	36	22	0	7	423	20.9	
10<6>	PCP	.1	.0	.3	.0	.2	.0	.0	.2	.2	.1	.1	.1	.2	.1	.3	.2	*	.0	.0	48	2.4
	NO PCP	6.3	2.9	2.9	1.6	2.8	.9	2.1	2.5	5.5	3.9	5.8	5.6	9.6	7.2	8.5	5.1	.3	.6	.6	1503	74.2
	TOTAL	129	59	65	33	60	18	42	55	115	81	121	117	199	149	179	109	7	13	1551	76.6	
	TOTAL	172	83	76	41	68	25	53	84	167	120	163	155	251	185	222	133	7	20	2025	100.0	
	PCT	8.5	4.1	3.8	2.0	3.4	1.2	2.6	4.1	8.2	5.9	8.0	7.7	12.4	9.1	11.0	6.6	.3	1.0	100.0		



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AREA 002 BERMUDA  
30-34N 63-67W

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1869-1968

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.1
	22<	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.0	.0	.0	3	.1
	TOTAL	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	3	.1
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	1	*
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	1	*
	22<	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	3	.1
	TOTAL	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	3	.1
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
1<2	4-10	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	22<	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	6	.3
	TOTAL	0	0	0	0	0	1	0	0	1	2	1	0	1	0	0	0	0	0	6	.3
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
2<5	4-10	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	4	.2
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1	.2	*	*	.0	.1	.1	.0	.0	20	1.0
	22<	.0	.0	*	.0	.0	.0	.0	.0	.2	.1	.1	.0	.2	.6	.6	2	0	0	39	1.9
	TOTAL	0	2	1	0	0	0	0	2	6	6	7	1	6	0	6	2	0	0	39	1.9
	0-3	.0	.1	.1	.1	.0	.0	.1	.1	.1	.0	.0	*	.0	.0	.0	*	.0	.4	22	1.1
5<10	4-10	.6	*	.0	*	.1	.1	*	.0	.1	.1	.1	*	.2	.2	.1	*	.0	.0	36	1.7
	11-21	1.1	.6	.2	.2	.3	.1	.3	.3	1.0	.6	.8	.9	.8	.7	.8	.8	.0	.0	213	10.2
	22<	.3	.3	.1	*	.0	.0	*	.4	1.0	.9	.8	.8	1.2	.8	.8	.2	.0	8	433	20.7
	TOTAL	42	22	10	8	8	6	9	29	45	30	35	38	47	36	37	23	0	8	433	20.7
	0-3	.3	*	.1	.1	.2	.0	.1	.1	.1	*	.2	*	.1	.0	*	.1	.3	.6	54	2.6
10<	4-10	1.3	.7	.5	.6	1.2	.4	.5	.7	1.3	.6	.9	.8	1.7	.7	1.1	.7	*	.0	288	13.8
	11-21	4.1	1.8	2.2	.8	1.5	.5	1.5	1.6	3.5	2.6	4.1	3.4	5.2	3.8	4.5	3.4	.0	932	44.6	
	22<	.6	.3	.3	.1	.1	*	.4	.5	.8	.9	.9	1.4	2.8	2.8	3.3	1.2	.0	13	331	15.8
	TOTAL	131	59	65	34	65	20	45	56	85	171	124	170	160	261	189	233	137	7	21	2089
	TOTAL	174	83	76	42	73	27	56	85	171	124	170	160	261	189	233	137	7	21	2089	100.0
	PCT	8.3	4.0	3.6	2.0	3.5	1.3	2.7	4.1	8.2	5.9	8.1	7.7	12.5	9.0	11.2	6.6	.3	1.0	100.0	

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1869-1968

FEBRUARY

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	*	.3	2.5	3.8	3.1	.9	.2	.1	.6	253	13.6	548
06&09	.5	*	.3	1.8	3.7	2.8	.9	.4	.1	.4	238	14.4	552
12&15	.1	.2	.7	2.4	4.2	3.1	1.1	*	.1	.3	265	12.4	535
18&21	*	.1	.6	2.4	4.6	3.1	.7	.4	.1	.2	267	12.6	542
TOT	15	8	41	199	356	264	78	22	9	31	1023	1154	2177
PCT	.7	.4	1.9	9.1	16.4	12.1	3.6	1.0	.4	1.4	47.0	53.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	*	.0	.0	.3	5.4	19.1	523
06&09	*	*	.0	.3	6.2	18.8	532
12&15	.0	.1	.1	.5	4.9	19.0	514
18&21	*	.0	.2	.7	4.2	20.0	526
TOT	3	3	6	39	433	1611	2095
PCT	.1	.1	.3	1.9	20.7	76.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ &DR5+	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	12.1	12.9	523
06&09	.0	.0	.2	11.2	14.0	532
12&15	.0	.0	.5	12.1	11.9	514
18&21	.0	*	.4	12.3	12.4	526
TOT	0	1	22	998	1074	2095
PCT	.0	*	1.1	47.6	51.3	100.0

FEBRUARY

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1869-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
80/84	.0	*	.0	.0	.0	.0	.0	.0	1	*
75/79	.0	.0	*	.0	*	.3	*	*	11	.5
70/74	*	.0	*	.2	1.0	1.2	3.8	3.3	222	9.6
65/69	*	.1	.3	2.1	5.2	7.5	11.5	11.5	890	38.4
60/64	.0	.0	.7	3.5	12.6	9.0	5.1	4.0	811	35.0
55/59	.0	.0	.2	1.4	4.2	4.1	3.1	1.3	331	14.3
50/54	.0	.0	.0	.1	.4	.4	.7	.6	51	2.2
45/49	.0	.0	.0	.0	.0	.0	*	*	2	.1
40/44	.0	.0	.0	.0	.0	.0	*	.0	1	*
TOTAL	2	3	30	169	546	523	565	482	2320	100.0
PCT	.1	.1	1.3	7.3	23.5	22.5	24.4	20.8		

TABLE 14

	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW				
80/84	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
75/79	*	.0	.0	.1	.1	.2	*	.0	.0	.0	.0	.0
70/74	.3	.1	.3	.7	2.9	3.3	1.3	.4	.0	.0	.0	.2
65/69	2.3	1.3	2.0	3.5	8.8	9.7	7.5	2.7	.1	.5	.0	.5
60/64	5.3	2.7	1.4	1.6	2.4	3.8	8.8	8.1	.2	.6	.0	.6
55/59	3.4	.9	.7	.2	.2	.7	3.4	4.4	*	.2	.0	.2
50/54	.5	*	.0	.0	.0	*	.6	1.0	.0	.0	.0	.0
45/49	.0	*	.0	.0	.0	.0	*	*	.0	.0	.0	.0
40/44	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0
TOTAL	275	119	102	144	334	412	504	387	9	34		34
PCT	11.9	5.1	4.4	6.2	14.4	17.8	21.7	16.7	.4	1.5		1.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	75	75	72	65	56	51	49	63.7	960
06&09	82	71	69	63	55	51	47	63.3	593
12&15	81	74	71	64	55	51	38	63.6	892
18&21	78	78	74	66	58	53	51	65.7	554
TOT	82	73	70	63	54	50	38	63.9	2999

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	*	2.0	6.9	7.3	7.2	7.1	78	709		
06&09	.0	1.8	4.3	4.9	5.5	4.2	77	484		
12&15	.0	2.1	6.5	5.9	7.6	6.8	78	673		
18&21	*	2.8	5.9	4.5	4.0	2.6	73	464		
TOT	2	202	549	525	568	484	77	2330		

FEBRUARY

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1869-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.0	*	.0	.0	*	.0	2	.0	.1
7/8	.0	.0	.0	.0	.0	*	.1	.0	.0	3	.0	.1
6	.0	.0	.0	.0	*	.1	.2	.0	.0	8	*	.3
5	.0	.0	.0	.0	.1	.6	.2	*	.0	21	.0	1.0
4	.0	.0	.0	.0	.2	.7	.2	.0	.0	24	.0	1.2
3	.0	.0	.0	*	.5	1.0	.3	*	.0	38	.0	1.9
2	.0	.0	.0	.2	2.0	2.7	.2	*	.0	107	.0	5.3
1	.0	.0	.0	.3	2.7	2.2	.1	.0	.0	109	.0	5.4
0	.0	.0	*	.5	5.3	2.4	.1	.0	.0	171	*	8.3
-1	.0	.0	.0	1.5	4.8	1.7	*	*	.0	166	.0	8.2
-2	.0	.0	*	2.7	6.5	.9	*	.0	.0	208	.0	10.2
-3	.0	.0	.2	3.1	3.8	.7	.0	.0	.0	159	.0	7.8
-4	.0	*	.6	5.4	2.8	.2	.0	*	.0	187	.0	9.2
-5	.0	*	1.9	4.9	1.8	.0	.0	.0	.0	178	.0	8.7
-6	*	.0	2.3	4.2	.7	.1	.0	.0	.0	150	.0	7.4
-7/-8	.0	.3	4.8	4.5	.7	.0	.0	.0	.0	209	*	10.2
-9/-10	*	1.2	4.5	1.6	.3	.0	.0	.0	.0	156	.0	7.7
-11/-13	*	1.8	2.3	.4	*	.1	.0	.0	.0	97	.0	4.8
-14/-16	.5	.5	.4	.1	.0	.0	.0	.0	.0	32	.0	1.6
-17/-19	.3	.2	.0	.0	.0	.0	.0	.0	.0	11	.0	.5
TOTAL	20	85	350	602	661	277	35	6	0	2036	3	2033
~*	1.0	4.2	17.2	29.6	32.5	13.6	1.7	.3	.0	100.0	.1	99.9

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

FEBRUARY  
TABLE 18

AREA 002 BERMUDA  
30-34N 63-67W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	.0	.3	.0	.0	.0	.0	2	.0	.3	.0	.0	.0	.0	2
1-2	.0	.8	.6	.0	.0	.0	9	.0	.2	.3	.0	.0	.0	3
3-4	.0	1.6	2.1	.0	.2	.0	24	.0	.6	.3	.0	.0	.0	6
5-6	.0	.6	1.7	.5	.2	.0	19	.0	.2	.6	.0	.0	.0	5
7	.0	.0	1.3	.2	.0	.0	9	.0	.0	.2	.0	.0	.0	1
8-9	.0	.2	1.3	.2	.2	.0	11	.0	.0	.2	.2	.0	.0	2
10-11	.0	.0	.0	.2	.0	.0	1	.0	.0	.2	.0	.0	.0	1
12	.0	.0	.0	.3	.0	.0	2	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	.0	22	44	8	3	0	77	.0	8	11	1	0	0	20
PCT	.0	3.5	7.0	1.3	.5	.0	12.2	.0	1.3	1.7	.2	.0	.0	3.2

HGT	E							SE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	.2	.5	.0	.0	.0	.0	4	.0	.2	.0	.0	.0	.0	1
1-2	.0	.5	.2	.0	.0	.0	4	.0	.6	.8	.2	.0	.0	10
3-4	.0	.8	.6	.0	.0	.0	9	.0	.3	.3	.2	.0	.0	5
5-6	.0	.2	.8	.0	.0	.0	6	.0	.3	1.3	.0	.0	.0	10
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.2	.0	.0	3
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.0	.0	.0	1
10-11	.0	.2	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	13	10	0	0	0	24	0	9	18	3	0	0	30
PCT	.2	2.1	1.6	.0	.0	.0	3.8	.0	1.4	2.8	.5	.0	.0	4.7

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

FEBRUARY  
TABLE 18

AREA 002 BERMUDA  
30-34N 63-67W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						TOTAL	SW						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.0	.5	.0	.0	.0	.0	3	.2	.8	.2	.0	.0	.0	7
1-2	.0	1.7	1.3	.2	.0	.0	20	.2	2.4	1.4	.3	.0	.0	27
3-4	.0	1.7	2.4	.6	.2	.0	31	.0	.9	3.2	.3	.0	.0	28
5-6	.2	.5	1.1	1.1	.0	.0	18	.0	.2	1.7	.3	.0	.0	14
7	.0	.0	.9	.3	.2	.0	9	.0	.0	1.1	1.3	.0	.0	15
8-9	.0	.0	.6	.5	.2	.0	8	.0	.0	.5	1.1	.2	.0	11
10-11	.0	.0	.0	.6	.0	.0	4	.0	.0	.0	.3	.2	.0	3
12	.0	.0	.0	.0	.2	.0	1	.0	.0	.2	.3	.2	.0	4
13-16	.0	.0	.0	.2	.0	.0	1	.0	.0	.0	.3	.2	.0	3
17-19	.0	.0	.0	.2	.0	.0	1	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	2.8	4.0	2.3	.4	.0	9.6	2	2.7	5.2	2.7	.4	.0	11.2
PCT	.2	4.4	6.3	3.6	.6	.0	15.2	.3	4.3	8.2	4.3	.6	.0	17.7

HGT	W						TOTAL	NW						TOTAL	GRAND TOTAL	
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+			
<1	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	19
1-2	.0	.9	.9	.2	.0	.0	13	.0	1.3	.5	.0	.0	.0	.0	11	97
3-4	.0	2.2	3.6	1.1	.3	.0	46	.0	1.1	2.5	.8	.0	.0	.0	28	177
5-6	.0	.2	3.3	1.1	.3	.0	32	.0	.0	.9	.3	.0	.0	.0	9	113
7	.0	.0	2.5	1.4	.3	.0	27	.0	.3	2.2	1.3	.2	.0	.0	25	89
8-9	.0	.0	1.6	.9	.2	.0	17	.0	.0	.3	.5	.3	.0	.0	7	57
10-11	.0	.0	.3	.8	.5	.0	10	.0	.0	.2	1.4	.0	.0	.0	10	30
12	.0	.0	.2	.2	.0	.0	2	.0	.0	.3	1.1	.0	.0	.0	9	18
13-16	.0	.0	.0	.6	.6	.0	8	.0	.0	.0	.9	.2	.0	.0	2	4
17-19	.0	.0	.0	.0	.2	.0	1	.0	.0	.0	.2	.2	.0	.0	1	1
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.0	.0	.0	.0	1	1
23-25	.0	.0	.0	.0	.2	.0	1	.0	.0	.0	.0	.0	.0	.0	0	0
26-32	.0	.0	.0	.3	.0	.0	2	.0	.0	.0	.0	.0	.2	.0	1	3
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.6	.0	4	.0	.0	.0	.0	.0	.0	.0	0	4
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	0	2.1	8.0	4.2	2.0	.0	16.3	0	1.7	4.5	4.2	.6	.1	1.1	6.3	100.0
PCT	.0	3.3	12.6	6.6	3.2	.0	25.8	.0	2.7	7.1	6.6	.9	.2	17.5	100.0	

FEBRUARY

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

TABLE 18 (CONT)

AREA 002 BERMUDA  
30-34N 63-67W

WIND SPEED (KTS) VS SEA HEIGHT (FT)							
HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	1.1	2.7	.2	.0	.0	.0	25
1-2	.2	8.3	5.9	.8	.0	.0	97
3-4	.3	9.2	14.8	3.0	.6	.0	179
5-6	.2	2.0	11.5	3.4	.5	.0	113
7	.0	.3	8.4	4.5	.6	.0	89
8-9	.0	.2	4.5	3.3	.9	.0	57
10-11	.0	.2	.6	3.3	.6	.0	30
12	.0	.0	.6	1.9	.3	.0	18
13-16	.0	.0	.0	2.0	1.1	.0	20
17-19	.0	.0	.0	.3	.3	.0	4
20-22	.0	.0	.2	.0	.0	.0	1
23-25	.0	.0	.0	.0	.2	.0	1
26-32	.0	.0	.0	.3	.0	.2	3
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.6	.0	4
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	11	146	300	146	37	1	641
PCT	1.7	22.8	46.8	22.8	5.8	.2	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.5	8.6	11.4	7.9	3.9	1.5	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	223	3
6-7	.0	.3	4.8	8.6	7.7	3.1	.9	.0	.6	.2	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	173	6
8-9	.0	.0	2.2	2.3	6.2	2.2	2.9	2.3	2.0	.3	.0	.0	.3	.0	.2	.0	.0	.0	.0	.0	135	8
10-11	.0	.2	.5	.0	1.4	2.3	1.2	1.1	2.0	.5	.3	.2	.2	.0	.5	.0	.0	.0	.0	.0	66	12
12-13	.0	.5	.2	.5	.5	.6	1.1	1.1	.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	32	9
>13	.0	.0	.0	.0	.3	.3	.5	.2	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	10
INDET	.8	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	1
TOTAL	8	62	124	125	130	65	46	30	39	6	3	1	6	0	4	0	0	0	0	0	649	6
PCT	1.2	9.6	19.1	19.3	20.0	10.0	7.1	4.6	6.0	.9	.5	.2	.9	.0	.6	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1877-1968

MARCH

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT FREQ PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG SNOW	TOTAL OTHER WEA		
N	.2	.1	.1	.0	.0	.0	.0	10	.0	*	*	.0	2	162	.4
NNE	.2	.0	*	.0	.0	.0	.0	5	.0	.0	*	.0	1	78	.2
NE	.1	*	.1	.0	.0	.0	.0	6	.0	.0	*	.0	1	80	.2
ENE	.1	*	.1	.0	.0	.0	.0	6	.0	.0	.0	.0	0	58	.2
E	.1	.1	*	.0	.0	.0	.0	7	.0	.0	*	.0	1	76	.3
ESE	.1	*	.1	.0	.0	.0	.0	6	.0	.0	.0	.0	0	45	.2
SE	.3	.0	*	.0	.0	.0	.0	10	*	.0	*	.0	2	80	.4
SSE	.3	.1	.2	.0	.0	.0	.0	15	.0	.0	.0	.0	0	99	.6
S	.4	.2	*	.0	.0	.0	.0	16	.0	*	.0	.0	5	185	.6
SSW	.3	.1	.2	.0	.0	.0	.0	17	.0	.0	*	.0	1	162	.7
SW	.4	.3	.1	.0	.0	.0	.0	21	.2	.0	.2	.0	12	272	.8
WSW	.4	.2	.1	.0	.0	.0	.0	13	.2	.0	.2	.0	9	193	.5
W	.2	.4	.2	.0	.0	.0	.0	20	.1	.1	-.1	*	8	345	.8
WNW	.2	.3	*	.0	.0	.0	.0	14	.1	.1	*	*	6	278	.5
NW	.3	.3	.2	.0	.0	.0	.0	21	.1	.0	*	*	4	280	.8
NNW	.2	.2	*	.0	.0	.0	.0	11	.1	*	.0	.0	3	182	.4
VAP	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	1	.0
CALM	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	28	.0
TOT	102	56	40	0	0	0	0	198	21	7	24	3	55	2604	
PCT	3.9	2.2	1.5	.0	.0	.0	.0	7.6	.8	.3	.9	.1	2.1	100.0	7.6

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT FREQ PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG SNOW	TOTAL OTHER WEA		
00&03	1.5	.8	.4	.0	.0	.0	.0	71	.4	.1	.3	*	21	737	2.7
06&09	.8	.4	.5	.0	.0	.0	.0	44	.3	.1	.2	*	18	643	1.7
12&15	.9	.8	.3	.0	.0	.0	.0	52	*	*	.2	*	8	620	2.0
18&21	.7	.2	.3	.0	.0	.0	.0	32	*	*	.2	.0	8	618	1.2
TOT	102	57	40	0	0	0	0	199	21	7	24	3	55	2618	
PCT	3.9	2.2	1.5	.0	.0	.0	.0	7.6	.8	.3	.9	.1	2.1	100.0	7.6



MARCH

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1877-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.5	2.0	2.9	.7	.2	.0	212	6.2	13.9	6.8	5.7	6.5	2.5	6.3	.0	5.3	7.9
NNE	.3	1.3	1.3	.1	.0	.0	104	3.0	11.3	3.4	.0	3.2	.0	2.7	.0	3.7	.0
NE	.4	1.5	1.3	.3	*	.0	117	3.4	11.4	4.2	2.9	3.2	2.5	3.5	2.7	2.5	.0
ENE	.1	1.1	1.0	.3	.0	.0	87	2.6	12.9	3.2	.0	1.7	2.5	2.3	2.7	2.8	.0
E	.5	1.8	1.1	.1	.0	.0	120	3.5	9.7	4.2	.0	4.0	.0	3.5	5.4	2.3	.0
ESE	.1	1.1	1.0	.1	.0	.0	74	2.2	12.4	3.1	.0	1.4	.0	2.7	.0	1.0	.0
SE	.2	1.8	1.3	.3	.0	.0	119	3.5	11.5	4.3	.0	3.2	2.5	3.7	.0	2.7	.0
SSE	.1	1.6	1.9	.4	.1	.0	141	4.1	13.3	3.9	2.9	2.4	2.5	4.6	5.4	6.2	.0
S	.4	2.6	3.0	1.1	.2	.1	252	7.4	15.0	7.0	5.7	6.7	12.5	8.9	5.4	6.2	10.5
SSW	.2	1.8	3.3	1.2	.1	.0	226	6.6	15.7	6.6	8.6	6.2	12.5	6.1	16.2	6.7	10.5
SW	.3	2.9	4.4	2.0	.2	.0	333	9.8	15.6	9.7	14.3	9.4	17.5	8.7	10.8	10.8	13.2
WSW	.2	1.4	3.1	1.5	.3	*	224	6.6	17.0	6.9	11.4	6.7	2.5	5.0	13.5	8.0	5.3
W	.6	2.9	5.3	2.9	.9	.1	433	12.7	18.0	10.3	14.3	14.6	2.5	13.1	13.5	14.5	21.1
WNW	.1	2.1	3.9	3.1	.8	.1	346	10.1	19.5	10.7	5.7	10.3	12.5	10.0	8.1	10.0	2.6
NW	.4	2.2	4.7	2.6	.8	.0	364	7.7	17.9	9.8	14.3	9.7	17.5	11.0	10.8	12.1	10.5
NNW	.4	1.6	3.3	.9	.1	.0	214	6.3	15.3	4.5	14.3	8.9	7.5	7.0	5.4	4.3	18.4
VAR	*	.0	.0	.0	.0	.0	1	*	3.0	.0	.0	.2	.0	.0	.0	.0	.0
CALM	1.3						43	1.3	.0	1.3	.0	2.1	2.5	1.0	.0	1.0	.0
TOT	205	1010	1460	598	124	13	3410	100.0	15.4	1088	35	631	40	940	37	601	38
PCT	6.0	29.6	42.8	17.5	3.6	.4	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	2.1	4.8	2.0	.4	.0	316	9.3	13.0	10.2	5.7	9.7	2.5	8.9	.0	9.0	7.9
NE	1.5	3.3	1.0	.3	.0	204	6.0	12.0	7.4	2.9	4.9	5.0	5.9	5.4	5.3	.0
E	1.7	2.9	1.0	.1	.0	194	5.7	10.7	7.4	.0	5.4	.0	6.2	5.4	3.3	.0
SE	1.6	4.1	1.6	.4	.0	260	7.6	12.5	8.2	2.9	5.5	5.0	8.3	5.4	8.8	.0
S	2.1	6.4	4.4	.9	.1	478	14.0	15.3	13.6	14.3	12.8	25.0	15.0	21.6	12.8	21.1
SW	1.9	7.3	5.7	1.3	.1	557	16.3	16.2	16.6	25.7	16.0	20.0	13.7	24.3	18.8	18.4
W	2.5	8.1	8.2	3.5	.6	779	22.8	18.7	21.0	20.0	24.9	15.0	23.1	21.6	24.5	23.7
NW	2.2	6.5	6.4	1.7	.2	578	17.0	16.9	14.3	28.6	18.5	25.0	18.0	16.2	16.5	28.9
VAR	*	.0	.0	.0	.0	1	*	3.0	.0	.0	.2	.0	.0	.0	.0	.0
CALM	1.3					43	1.3	.0	1.3	.0	2.1	2.5	1.0	.0	1.0	.0
TOT	574	1476	1030	294	36	3410	100.0	15.4	1088	35	631	40	940	37	601	38
PCT	16.8	43.3	30.2	8.6	1.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1877-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	1.9	10.6	13.6	5.2	1.0	.2	.0	.4	14.7	32.9	1123
06&09	.6	5.7	9.0	3.3	.5	.1	*	.4	15.4	19.7	671
12&15	1.8	9.0	11.2	4.9	1.4	.1	.0	.3	15.3	28.7	977
18&21	.4	4.3	9.1	4.1	.7	*	.0	.2	16.8	18.7	639
TOT	161	1010	1460	598	124	13	1	43	15.4		3410
PCT	4.7	29.6	42.8	17.5	3.6	.4	*	1.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

BY WIND DIRECTION

WIND DIR	BY WIND DIRECTION				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD		
N	.9	.9	2.6	2.0	153	5.7
NNE	.3	.7	1.3	.7	69	5.6
NE	.9	.5	1.0	.6	72	4.5
ENE	.6	.4	.7	.5	52	4.7
E	1.0	.8	.7	.5	70	4.3
ESE	.4	.4	.6	.2	38	4.6
SE	.7	.2	1.0	1.0	69	5.4
SSE	.6	.3	1.2	1.6	86	5.9
S	1.3	1.0	2.5	2.5	174	5.6
SSW	1.7	.5	2.4	1.9	156	5.3
SW	1.8	1.8	3.5	3.2	241	5.4
WSW	1.4	1.2	3.0	2.0	181	5.2
W	2.7	2.3	5.0	3.2	310	5.0
WNW	2.1	2.7	4.1	2.0	256	4.9
NW	1.9	2.7	4.4	1.7	254	4.9
NNW	1.3	1.2	3.0	1.4	163	5.1
VAR	.0	.0	.0	.0	0	.0
CALM	.3	.4	.3	.1	26	4.2
TOT	469	424	881	596	2370	5.2
PCT	19.8	17.9	37.2	25.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)										NH <5/8 ANY HGT	TOTAL OBS
	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+		
N	*	.0	.1	.5	1.5	1.1	.4	*	.1	.1	2.6	153
NNE	.0	.0	.1	.3	.5	.4	.3	.1	.0	.0	1.3	69
NE	.0	.0	*	.2	.3	.1	.2	*	.0	.0	2.2	72
ENE	.0	.0	*	.2	.3	.3	.1	.0	.0	.0	1.3	52
E	.0	.0	.0	.2	.3	.2	.1	.1	.0	*	2.1	70
ESE	.0	*	.0	*	.2	.3	.0	*	*	.0	1.0	38
SE	.0	.0	*	.3	.4	.3	*	.0	.0	.1	1.7	69
SSE	.0	.0	.2	.3	.5	.5	.1	.2	*	*	1.7	86
S	.1	.0	.2	.5	.9	1.0	.3	.1	*	.3	3.9	174
SSW	.0	*	.0	.5	1.1	.9	.2	.2	.0	.3	3.5	156
SW	.0	.1	.2	.6	1.5	1.1	.4	.1	.1	.1	5.9	241
WSW	.1	*	.2	.7	.9	1.0	.4	.1	.1	*	4.1	181
W	*	.1	.4	1.1	1.6	1.7	.4	.1	.1	.1	7.5	310
WNW	.1	.0	.1	.8	1.6	1.1	.5	.1	.0	*	6.5	256
NW	.0	.0	.3	.8	2.0	1.1	.6	*	*	.0	5.9	254
NNW	.0	.1	*	.7	1.2	.8	.5	.0	*	*	3.5	163
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.1	*	.0	*	.0	.0	.9	26
TOT	8	9	44	183	356	283	101	30	15	27	1314	2370
PCT	.3	.4	1.9	7.7	15.0	11.9	4.3	1.3	.6	1.1	55.4	100.0

MARCH

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1877-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	1.3	1.8	1.8	1.8	1.8	1.8	1.8
= OR >5000	2.1	2.9	3.0	3.0	3.0	3.0	3.0
= OR >3500	5.3	7.2	7.3	7.3	7.3	7.3	7.3
= OR >2000	13.5	19.1	19.4	19.4	19.4	19.4	19.4
= OR >1000	24.7	33.6	34.3	34.3	34.3	34.3	34.3
= OR >600	30.4	40.9	41.8	41.9	41.9	41.9	41.9
= OR >300	31.0	42.6	43.6	43.8	43.8	43.8	43.8
= OR >150	31.3	42.9	44.0	44.2	44.2	44.2	44.2
= OR > 0	31.3	43.1	44.2	44.5	44.5	44.5	44.5
TOTAL	746	1029	1055	1061	1061	1061	1061

TOTAL NUMBER OF OBS: 2385

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.0	8.4	13.2	12.4	11.1	8.5	10.5	8.8	15.7	.4	2569

MARCH

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1877-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.0
1<2	PCP	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	3	.1
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	.0	.0	.0	.0	3	.1
	TOTAL	1	0	0	0	0	0	0	0	0	0	0	2	2	1	0	0	0	0	6	.3
2<5	PCP	.0	.0	.0	.0	.1	.0	.1	.0	.0	.1	.1	*	.1	*	.0	.0	.0	.0	14	.6
	NO PCP	.0	.0	.0	*	*	*	.0	*	.2	.0	*	.1	.1	.2	*	*	.0	.0	21	.9
	TOTAL	0	0	0	1	3	1	2	1	4	3	4	3	5	6	1	1	0	0	35	1.5
5<10	PCP	.3	.1	.1	*	.1	*	.0	.3	.5	.3	.4	.3	.3	.3	.4	.1	.0	.0	84	3.6
	NO PCP	1.0	.3	.1	.4	.2	.1	.3	.5	.8	1.4	1.9	1.2	2.3	1.5	1.9	.7	.0	.0	335	14.5
	TOTAL	28	8	6	11	6	3	6	20	29	39	53	36	62	40	53	19	0	0	419	18.1
10<5	PCP	.1	*	.0	.1	.1	.0	.1	.2	.1	.2	.2	.1	.2	.2	.3	.3	.0	.0	50	2.2
	NO PCP	5.1	2.5	2.8	1.6	2.4	1.4	2.4	2.5	5.7	4.5	7.7	5.8	10.0	8.6	8.1	5.7	.0	1.1	1804	78.0
	TOTAL	120	60	64	39	59	32	58	62	135	107	183	137	237	203	195	138	0	25	1854	80.1
	TOTAL PCT	149	68	70	51	68	36	66	83	168	149	240	178	306	250	249	158	0	25	2314	100.0
		6.4	2.9	3.0	2.2	2.9	1.6	2.9	3.6	7.3	6.4	10.4	7.7	13.2	10.8	10.8	6.8	.0	1.1	100.0	

MARCH

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1877-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.0
1<2	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	1	*
	11-21	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	4	.2
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	1	*
	TOTAL	2	0	0	0	0	0	0	0	0	0	0	2	2	1	0	0	0	0	7	.3
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	*	.0	.0	*	.0	.0	4	.2
	4-10	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	*	*	.0	.0	.0	.0	.0	4	.2
	11-21	.0	.0	.0	*	.1	.0	.0	*	*	*	.0	.1	*	.1	.0	.0	.0	.0	12	.5
	22&>	.0	.0	.0	.0	.0	.0	.1	.0	*	.2	.1	.0	.1	.2	*	.0	.0	.0	17	.7
	TOTAL	0	0	0	1	3	1	2	1	4	5	4	3	5	6	1	1	0	0	37	1.6
5<10	0-3	*	*	.0	.0	*	.0	.0	.0	.1	.0	.0	.0	.1	*	.2	.0	.0	.0	12	.5
	4-10	.3	.1	*	*	.1	*	.1	.1	.1	.2	.2	.2	.3	.2	.4	.2	.0	.0	61	2.6
	11-21	.6	.2	.1	.3	.1	.1	.1	.6	.6	.9	1.0	.8	1.4	.7	.7	.5	.0	.0	209	8.8
	22&>	.2	.0	.1	.1	*	.0	.1	.4	.6	1.1	.6	.9	.8	1.0	.1	.0	.0	.0	149	6.2
	TOTAL	28	8	6	11	7	3	6	20	30	42	55	38	64	41	53	19	0	0	431	18.1
10&>	0-3	.2	.2	.1	*	.3	.1	.1	.1	.1	*	.2	.2	.2	.1	.1	.3	.0	1.1	81	3.4
	4-10	1.0	.6	1.1	.7	1.0	.5	.8	.8	1.4	.9	1.6	1.0	1.4	.9	1.2	1.0	.0	.0	379	15.9
	11-21	3.0	1.6	1.3	.8	1.3	.8	1.6	1.7	3.4	3.1	4.7	3.4	5.5	4.4	4.5	3.7	.0	.0	1065	44.7
	22&>	.9	.2	.2	.1	*	.0	.1	.1	1.0	.8	1.3	1.2	3.3	3.4	2.6	1.0	.0	.0	385	16.1
	TOTAL	123	61	65	40	60	33	61	65	141	114	184	139	246	208	202	142	0	26	1910	80.1
	TOTAL	153	69	71	52	70	37	69	86	175	161	243	182	317	256	256	162	0	26	2385	100.0
	PCT	6.4	2.9	3.0	2.2	2.9	1.6	2.9	3.6	7.3	6.8	10.2	7.6	13.3	10.7	10.7	6.8	.0	1.1	100.0	

MARCH

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1877-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	*	.7	1.9	4.2	3.1	.9	.2	.1	.2	288	15.2	670
06&09	.2	.1	.3	2.1	3.4	2.3	1.1	.3	.1	.2	254	14.4	616
12&15	.1	.2	.4	1.8	3.2	3.1	1.2	.3	.2	.4	270	13.6	612
18&21	.1	.0	.4	1.5	3.4	3.0	1.0	.4	.2	.2	256	14.1	611
TOT PCT	3 .3	9 .4	44 1.8	183 7.3	359 14.3	288 11.5	104 4.1	31 1.2	15 .6	27 1.1	1068 42.6	1441 57.4	2509 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.7	4.8	20.8	628
06&09	.0	.0	*	.3	4.7	19.7	592
12&15	.0	.0	.1	.3	4.3	19.8	584
18&21	.0	.0	.2	.3	4.2	20.0	590
TOT PCT	0 .0	0 .0	7 .3	37 1.5	431 18.0	1919 80.2	2394 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ &OR5+	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.2	11.8	14.3	628
06&09	.0	.0	.1	10.4	14.2	592
12&15	.0	.0	.2	11.1	13.2	584
18&21	.0	.0	.2	10.5	14.0	590
TOT PCT	0 .0	0 .0	15 .6	1048 43.8	1331 55.6	2394 100.0

MARCH

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1877-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.1	.2	.2	.2	*	17	.7
70/74	.0	*	*	.5	1.0	1.6	2.9	2.9	226	9.0
65/69	.0	.0	.6	1.9	5.3	7.7	12.7	12.1	1015	40.4
60/64	.0	*	.6	4.7	12.7	8.4	6.2	4.1	924	36.8
55/59	.0	*	.2	1.5	4.1	3.4	1.8	1.0	303	12.1
50/54	.0	.0	*	*	.2	.2	.4	.1	24	1.0
45/49	.0	.0	.0	.0	*	*	*	*	4	.2
TOTAL	0	3	39	221	592	542	607	509	2513	100.0
PCT	.0	.1	1.6	8.8	23.5	21.6	24.1	20.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.1	.0	.2	.2	.2	*	.0	.0
70/74	.3	.2	.2	.6	1.9	3.2	1.8	.6	*	.2
65/69	1.9	2.1	2.5	4.3	9.1	7.8	8.4	3.7	.0	.5
60/64	4.5	2.5	2.5	2.2	2.5	3.7	10.2	7.9	.0	.6
55/59	2.7	.7	.3	.1	.1	.2	3.1	4.6	.0	.2
50/54	.2	.1	.0	*	.0	*	.2	.4	.0	.0
45/49	.0	.0	.0	*	.0	.0	.0	.1	.0	*
TOTAL	244	143	137	182	350	383	601	435	1	37
PCT	9.7	5.7	5.4	7.2	13.9	15.2	23.9	17.3	*	1.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	75	73	71	65	57	53	46	64.2	1111
06&09	76	74	71	64	56	52	48	63.0	659
12&15	80	75	72	66	58	53	46	64.4	967
18&21	82	79	75	67	59	56	52	66.4	625
TOT	82	73	70	64	56	52	46	64.4	3362

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.1	7.1	7.1	7.6	7.3	78	788		
06&09	.0	2.1	5.7	4.5	5.0	4.0	76	540		
12&15	.0	2.6	5.9	6.0	7.1	6.0	77	699		
18&21	.0	3.7	4.9	4.0	4.5	2.8	73	502		
TOT	0	266	598	545	611	509	76	2529		

MARCH

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1877-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	*	.0	.0	.0	*	1	.0	*
9/10	.0	.0	.0	.0	.0	.0	*	.2	*	.0	7	.0	.3
7/8	.0	.0	.0	.0	.0	.1	.1	.2	.2	.0	15	.0	.7
6	.0	.0	.0	.0	.0	.0	.5	.3	.0	.0	17	*	.7
5	.0	.0	.0	.0	*	.1	.5	.5	.1	.0	30	.0	1.3
4	.0	.0	.0	.0	*	.1	1.5	.2	.0	.0	44	*	1.9
3	.0	.0	.0	*	.2	1.1	1.8	.4	.0	.0	79	*	3.4
2	.0	.0	.0	.1	.2	2.3	2.4	.2	.0	.0	116	.0	5.1
1	.0	.0	.0	.0	.3	3.7	2.2	.1	.0	.0	143	.0	6.3
0	.0	.0	.0	.1	1.1	6.1	1.6	.1	.0	.0	206	.0	9.1
-1	.0	.0	.0	*	1.7	5.7	1.1	.0	.0	.0	195	*	8.6
-2	.0	.0	.0	.1	3.6	5.3	.6	.0	.0	.0	219	.0	9.7
-3	.0	.0	.0	*	5.0	3.0	.4	.0	.0	.0	191	.0	8.4
-4	.0	.0	.0	1.0	5.3	2.9	.2	.0	.0	.0	212	.0	9.3
-5	.0	.0	*	1.3	4.4	1.5	*	.0	.0	.0	167	.0	7.4
-6	.0	.0	.1	2.1	3.9	.5	*	.0	.0	.0	150	.0	6.6
-7/-8	.0	.0	.2	4.5	4.1	.7	.1	.0	.0	.0	217	.0	9.6
-9/-10	.0	.0	.7	3.2	1.4	.2	.0	.0	.0	.0	123	*	5.4
-11/-13	.0	.1	1.8	1.9	.4	.1	.0	.0	.0	.0	99	.0	4.4
-14/-16	.0	.3	.7	.2	.1	*	.0	.0	.0	.0	32	.0	1.4
-17/-19	.0	*	.1	.1	.0	.0	.0	.0	.0	.0	6	.0	.3
TOTAL	0	10	85	334	722	759	300	90	9	0	2269	5	2264
PCT	.0	.4	3.7	14.7	31.8	33.5	13.2	2.2	.4	.0	100.0	.2	99.8



PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

MARCH  
TABLE 18

AREA 002 BERMUDA  
30-34N 63-67W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						TOTAL	NE						
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	.1	.7	.0	.0	.0	.0	6	.0	.3	.0	.0	.0	.0	2
1-2	.0	2.3	.7	.0	.0	.0	22	.0	2.0	.7	.0	.0	.0	19
3-4	.0	1.0	1.6	.3	.0	.0	20	.0	.3	.7	.1	.0	.0	8
5-6	.0	.1	1.6	.4	.0	.0	15	.0	.4	1.0	.0	.0	.0	10
7	.0	.4	.6	.3	.0	.0	9	.0	.1	.3	.4	.0	.0	6
8-9	.0	.1	.6	.4	.0	.0	8	.0	.0	.7	.3	.0	.0	7
10-11	.0	.0	.0	.1	.0	.0	1	.0	.0	.0	.3	.0	.0	2
12	.0	.0	.4	.4	.1	.0	7	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.1	.0	.0	1
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	33	39	14	1	0	88	0	22	24	9	0	0	55
PCT	.1	4.7	5.5	2.0	.1	.0	12.5	.0	3.1	3.4	1.3	.0	.0	7.8

HGT	E						TOTAL	SE						
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	.1	.7	.0	.0	.0	.0	6	.0	.1	.0	.0	.0	.0	1
1-2	.0	1.3	.0	.0	.0	.0	9	.0	.9	.6	.1	.0	.0	11
3-4	.0	.6	.9	.1	.0	.0	11	.0	.6	1.4	.1	.0	.0	15
5-6	.0	.4	.3	.0	.0	.0	5	.0	.0	1.1	.1	.0	.0	9
7	.0	.0	.3	.0	.0	.0	2	.0	.0	.3	.0	.0	.0	2
8-9	.0	.0	.1	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	21	11	1	0	0	34	0	11	24	3	0	0	38
PCT	.1	3.0	1.6	.1	.0	.0	4.8	.0	1.6	3.4	.4	.0	.0	5.4



PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

MARCH  
TABLE 18

AREA 002  
30-34N BERMUDA  
63-67W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						TOTAL	SW						TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+		
<1	.0	.6	.0	.0	.0	.0	4	.4	.6	.0	.0	.0	.0	7	
1-2	.0	2.7	1.4	.0	.0	.0	29	.1	1.4	1.4	.0	.0	.0	21	
3-4	.0	1.0	4.1	1.3	.0	.0	45	.0	.9	4.0	.1	.0	.0	35	
5-6	.0	.3	1.8	.9	-1	.0	22	.0	.3	1.7	.9	.0	.0	20	
7	.0	.1	1.3	.7	.0	.0	15	.0	.3	1.0	.4	.1	.0	13	
8-9	.0	.0	.1	.0	.0	.0	1	.0	.0	.1	.6	.0	.0	5	
10-11	.0	.0	.0	.1	.4	.0	4	.0	.0	.0	.3	.0	.0	2	
12	.0	.0	.0	.1	.0	.0	1	.0	.0	.0	.1	.1	.0	2	
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	.1	.0	3	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.0	.1	.0	2	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	0	33	62	22	4	0	121	4	24	59	19	4	0	110	
PCT	.0	4.7	8.8	3.1	.6	.0	17.2	.6	3.4	8.4	2.7	.6	.0	15.6	

HGT	W						TOTAL	NW						TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+		
<1	.0	.3	.0	.0	.0	.0	2	.6	.0	.0	.0	.0	.0	4	32
1-2	.0	.7	1.8	.1	.0	.0	19	.4	2.4	.6	.0	.0	.0	24	154
3-4	.0	.9	3.4	.7	.0	.0	35	.0	.9	2.0	.6	.0	.0	24	193
5-6	.0	.1	2.0	1.8	.3	.0	30	.0	.1	1.7	.1	.0	.0	14	125
7	.0	.4	1.8	1.1	.6	.0	28	.0	.3	1.1	.3	.0	.0	12	87
8-9	.0	.3	1.3	1.0	.1	.0	19	.0	.1	.7	.3	.0	.0	8	49
10-11	.0	.0	.0	.9	.0	.0	6	.0	.0	.1	.4	.0	.0	4	19
12	.0	.0	.0	.7	.0	.0	5	.0	.0	.4	.1	.0	.0	4	19
13-16	.0	.0	.3	.4	.3	.0	7	.0	.0	.1	.3	.0	.0	3	14
17-19	.0	.0	.3	.1	.0	.0	3	.0	.0	.0	.3	.0	.0	2	7
20-22	.0	.0	.0	.0	.1	.0	1	.0	.0	.0	.0	.0	.0	0	1
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
26-32	.0	.0	.0	.3	.0	.0	2	.0	.0	.4	.0	.0	.0	3	5
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	0	19	77	51	10	0	157	7	27	51	17	0	0	102	705
PCT	.0	2.7	10.9	7.2	1.4	.0	22.3	1.0	3.8	7.2	2.4	.0	.0	14.5	100.0

MARCH

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

TABLE 18 (CONT)

AREA 002 BERMUDA  
30-34N 63-67W

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	1.7	3.2	.0	.0	.0	.0	35
1-2	.8	13.5	7.3	.3	.0	.0	156
3-4	.0	5.9	17.9	3.4	.0	.0	193
5-6	.1	1.8	11.1	4.2	.4	.0	126
7	.0	1.7	6.6	3.2	.7	.0	87
8-9	.0	.6	3.7	2.5	.1	.0	49
10-11	.0	.0	.1	2.1	.4	.0	19
12	.0	.0	.8	1.5	.3	.0	19
13-16	.0	.0	.4	1.1	.4	.0	14
17-19	.0	.0	.4	.4	.1	.0	7
20-22	.0	.0	.0	.0	.1	.0	1
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.4	.3	.0	.0	5
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	19	190	347	136	19	0	711
PCT	2.7	26.7	48.8	19.1	2.7	.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.1	11.4	15.7	6.6	3.1	1.5	.7	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	289	3
6-7	.1	1.0	5.5	6.6	5.6	3.8	.7	.4	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	177	6
8-9	.0	.3	1.4	2.0	3.6	2.7	2.9	2.5	1.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	123	8
10-11	.0	.0	.4	1.1	1.0	1.3	1.5	.6	1.7	.6	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	62	10
12-13	.0	.1	.3	.3	.7	.4	.1	.7	.7	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	27	10
>13	.0	.0	.0	.1	.1	.3	.1	.1	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	9	14
INDET	1.1	.1	.0	.6	1.0	.4	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	4
TOTAL	17	92	166	123	108	74	46	32	33	13	2	0	7	0	0	0	0	0	0	0	713	6
PCT	2.4	12.9	23.3	17.3	15.1	10.4	6.5	4.5	4.6	1.8	.3	.0	1.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1945-1968  
(OVER-ALL) 1861-1968

APRIL

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
N	.1	.1	.1	.0	.0	.0	.0	6	.0	.0	.1	.0	3	146	.2	
NNE	.1	.0	.1	.0	.0	.0	.0	5	*	.0	.0	.0	1	92	.2	
NE	.2	.0	*	.0	.0	.0	.0	5	.0	*	.1	.0	3	140	.2	
ENE	.2	.0	*	.0	.0	.0	.0	5	.0	.0	.0	.0	0	96	.2	
E	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	*	*	2	127	.0	
ESE	.1	.0	.0	.0	.0	.0	.0	3	.0	.0	*	.0	1	60	.1	
SE	.1	.0	.0	.0	.0	.0	.0	3	.0	.0	*	*	2	133	.1	
SSE	.0	*	*	.0	.0	.0	.0	2	.0	.0	.1	.0	2	120	.1	
S	.5	.2	.1	.0	.0	.0	.0	22	.2	.1	.3	*	16	252	.9	
SSW	.1	.1	.3	.0	.0	.0	.0	12	*	*	.3	.0	9	156	.5	
SW	.5	.2	.2	.0	.0	.0	.0	21	.2	*	.3	.0	12	237	.8	
WSW	.2	.2	.1	.0	.0	.0	.0	13	.1	*	.3	.0	11	170	.5	
W	.3	.2	.1	.0	.0	.0	.0	14	*	.0	.3	.0	8	251	.6	
WNW	.1	.1	*	.0	.0	.0	.0	5	*	.0	.1	*	4	147	.2	
NW	.1	.2	.1	.0	.0	.0	.0	8	.2	.0	.1	.0	8	187	.3	
NNW	.2	*	*	.0	.0	.0	.0	6	.1	.0	.1	.0	5	157	.2	
VAR	.0	.0	.1	.0	.0	.0	.0	3	.0	.0	.0	.0	0	9	.1	
CALM	*	.0	.0	.0	.0	.0	.0	1	.0	.0	*	.0	1	47	*	
TOT	.70	.32	.32	.0	.0	.0	.0	134	.21	.7	.56	.4	88	2527		
PCT	2.8	1.3	1.3	.0	.0	.0	.0	5.3	.8	.3	2.2	.2	3.5	100.0	5.3	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
00003	.9	.3	.4	.0	.0	.0	.0	42	.5	*	.8	*	34	696	1.6	
06009	.9	.4	.5	.0	.0	.0	.0	44	.4	.1	.4	.1	23	665	1.7	
12015	.5	.4	.2	.0	.0	.0	.0	27	.0	.1	.5	*	15	623	1.1	
18021	.4	.2	.2	.0	.0	.0	.0	22	.0	.1	.5	.0	16	566	.9	
TOT	.71	.32	.32	.0	.0	.0	.0	135	.21	.7	.56	.4	88	2550		
PCT	2.8	1.3	1.3	.0	.0	.0	.0	5.3	.8	.3	2.2	.2	3.5	100.0	5.3	

APRIL

PERIOD: (PRIMARY) 1945-1968  
(OVER-ALL) 1861-1968

TABLE 3

AREA 002 BERMUDA  
30-34N 63-67W

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.5	1.6	2.9	.8	*	.0	179	5.7	13.7	5.7	3.6	6.5	.0	6.2	2.4	5.4	.0
NNE	.2	1.5	1.3	.4	-.1	.0	114	3.7	13.2	3.9	3.6	3.1	2.9	3.7	.0	4.3	3.0
NE	.4	2.2	2.7	.6	-.1	.0	189	6.1	12.9	7.1	3.6	6.0	5.9	5.7	4.8	5.2	6.1
ENE	.2	1.6	1.7	.2	.0	.0	114	3.7	12.2	2.5	.0	4.7	5.9	3.7	4.8	4.6	.0
E	.4	2.1	1.9	.2	*	.0	145	4.6	11.8	4.6	.0	3.3	.0	4.7	.0	7.4	.0
ESE	.2	1.2	1.0	.2	*	.0	79	2.5	11.4	2.8	.0	2.0	2.9	3.3	2.4	1.7	.0
SE	.2	2.3	2.1	.3	*	.0	153	4.9	11.8	5.0	7.1	4.9	2.9	4.1	7.1	5.5	9.1
SSE	.2	2.0	2.0	.6	.0	.0	148	4.7	12.7	4.9	3.6	4.9	2.9	5.6	2.4	3.5	3.0
S	.4	3.6	4.6	1.3	-.1	.0	311	10.0	14.0	9.3	21.4	10.2	23.5	9.9	26.2	7.9	15.2
SSW	.4	2.6	2.6	1.1	-.1	.0	206	6.6	13.8	7.7	7.1	6.5	2.9	6.4	2.4	5.7	6.1
SW	.4	3.7	4.6	.9	*	.0	299	9.6	13.3	9.1	3.6	10.9	2.9	9.6	9.5	9.6	12.1
WSW	.1	2.0	3.5	1.0	-.1	.0	210	6.7	15.1	6.1	.0	5.7	11.8	7.5	4.8	8.1	6.1
W	.8	2.8	4.4	1.8	.3	*	312	10.0	15.2	9.7	10.7	9.6	11.8	10.5	19.0	9.4	9.1
MNW	.3	1.5	2.2	1.4	.3	.0	174	5.6	16.6	5.8	.0	5.8	2.9	4.7	2.4	6.3	15.2
NW	.5	1.6	3.8	1.3	.2	.0	233	7.5	15.4	8.1	10.7	6.6	11.8	7.6	7.1	6.7	9.1
NNW	.2	1.7	2.8	.9	-.1	.0	179	5.7	15.3	5.6	14.3	6.5	2.9	4.5	4.8	6.8	6.1
VAR	.3	*	.0	.0	.0	.0	9	.3	2.4	.2	7.1	.5	5.9	.0	.0	.0	.0
CALM	2.1						65	2.1	.0	2.0	3.6	2.4	.0	2.4	.0	1.8	.0
TOT	236	1061	1375	401	45	1	3119	100.0	13.6	961	28	635	34	845	42	541	33
PCT	7.6	34.0	44.1	12.9	1.4	*	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40					00	03	06	09	12	15	18	21
N	1.8	5.0	2.2	.4	*	293	9.4	13.5	9.6	7.1	9.6	2.9	9.8	2.4	9.6	3.0
NE	2.1	4.8	2.5	.3	.0	303	9.7	12.6	9.6	3.6	10.7	11.8	9.3	9.5	9.8	6.1
E	1.6	4.1	1.3	.2	.0	224	7.2	11.6	7.4	.0	5.4	2.9	8.0	2.4	9.1	.0
ESE	1.9	5.8	1.6	.4	.0	301	9.7	12.2	9.9	10.7	9.8	5.9	9.7	9.5	9.1	12.1
S	2.5	8.8	4.3	1.0	*	517	16.6	13.9	17.0	28.6	16.7	26.5	16.3	28.6	13.7	21.2
SW	2.1	8.5	5.2	.5	.0	509	16.3	14.0	15.2	3.6	16.5	14.7	17.0	14.3	17.7	18.2
W	2.8	6.4	4.5	1.7	.1	486	15.6	15.7	15.5	10.7	15.4	14.7	15.3	21.4	15.7	24.2
NW	2.0	5.7	4.7	.7	.1	412	13.2	15.4	13.7	25.0	13.1	14.7	12.1	11.9	13.5	15.2
VAR	.3	.0	.0	.0	.0	9	.3	2.4	.2	7.1	.5	5.9	.0	.0	.0	.0
CALM	2.1					65	2.1	.0	2.0	3.6	2.4	.0	2.4	.0	1.8	.0
TOT	598	1522	822	160	7	3119	100.0	13.6	961	28	635	34	845	42	541	33
PCT	19.2	49.1	26.4	5.1	.2	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1945-1968  
(OVER-ALL) 1861-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	2.0	11.0	13.4	4.3	.3	.0	.1	.6	13.3	31.7	989
06&09	.8	7.4	9.4	2.9	.3	.0	.2	.5	13.7	21.4	669
12&15	2.1	10.4	11.7	3.1	.3	*	.0	.6	13.0	28.4	887
18&21	.4	5.2	9.6	2.6	.3	.0	.0	.3	14.9	18.4	574
TOT	163	1060	1375	401	45	1	9	65	13.6		3119
PCT	5.2	34.0	44.1	12.9	1.4	*	.3	2.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION					MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	
N	1.7	1.5	1.8	1.0	137	4.4
NNE	1.1	1.0	.8	.6	79	4.1
NE	1.7	1.7	1.2	1.0	127	4.2
ENE	1.0	1.0	1.1	.6	85	4.3
E	1.8	1.5	1.1	1.1	122	4.2
ESE	.6	.5	.6	.7	54	4.7
SE	1.7	1.0	1.4	1.3	121	4.5
SSE	1.3	.8	1.4	1.3	110	4.9
S	1.6	1.5	3.1	3.2	214	5.5
SSW	1.3	.7	1.8	2.2	139	5.4
SW	2.4	1.6	3.1	2.4	216	4.9
WSW	2.0	1.2	2.2	1.3	156	4.6
W	2.9	2.3	2.6	1.7	217	4.2
WNW	1.5	1.5	2.2	.8	134	4.5
NW	1.6	1.5	2.9	1.4	170	4.8
NNW	1.9	2.1	1.7	.6	142	3.9
VAR	.2	.0	*	.2	9	4.6
CALM	.9	.2	.4	.2	40	3.2
TOT	618	489	671	494	2272	4.6
PCT	27.2	21.5	29.5	21.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										NH <5/8 ANY HGT	TOTAL OBS	
	000	150	300	600	1000	2000	3500	5000	6500	8000+			
	149	299	599	999	1979	3499	4999	6499	7999				
N	.0	.0	.1	.4	1.1	.5	.1	*	.1	.0	.0	3.7	137
NNE	.0	.0	.0	.2	.5	.1	.1	.0	.0	.0	.0	2.6	79
NE	.0	.0	.1	.4	.5	.4	.2	.1	.0	*	*	4.0	127
ENE	.0	.0	*	.2	.5	.2	.3	.0	.0	.0	.0	2.4	85
E	.0	*	*	.4	.4	.3	.1	*	*	.0	.0	4.0	122
ESE	.0	.0	.1	.0	.4	.3	*	*	.0	.0	.0	1.5	54
SE	.0	*	*	.4	.4	.5	.3	.0	.1	.0	.0	3.5	121
SSE	.0	*	.1	.3	.7	.3	*	.0	*	*	*	3.3	110
S	.1	.0	.3	.7	1.6	.7	.4	.2	.1	.1	.1	5.2	214
SSW	*	.0	*	.5	1.2	.8	.2	*	.1	.0	.0	3.2	139
SW	.2	.1	.2	.5	1.5	.6	.4	.1	*	*	*	5.8	216
WSW	*	.1	.1	.6	.8	.5	.3	*	.1	.1	.1	4.2	156
W	.0	*	.2	.7	1.1	.7	.2	.0	.0	.1	.1	6.4	217
WNW	.0	.0	.1	.2	1.0	.4	.2	*	.0	.1	.1	3.8	134
NW	.0	*	.1	.5	1.7	.8	.2	.1	.0	.0	*	3.9	170
NNW	.0	.0	.1	.2	.7	.5	.2	*	*	.0	.0	4.5	142
VAR	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	*	.2	9
CALM	.0	.0	.0	.1	.2	*	*	.0	.0	.0	.0	1.4	40
TOT	8	9	40	141	331	179	75	18	15	13	1443	2272	
PCT	.4	.4	1.8	6.2	14.6	7.9	3.3	.8	.7	.6	63.5	100.0	

APRIL

PERIOD: (PRIMARY) 1945-1968  
(OVER-ALL) 1861-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >53YD
= OR >6500	.9	1.2	1.2	1.2	1.2	1.2	1.2
= OR >5000	1.6	2.0	2.0	2.0	2.0	2.0	2.0
= OR >3500	3.8	5.2	5.3	5.3	5.3	5.3	5.3
= OR >2000	9.3	12.9	13.2	13.2	13.2	13.2	13.2
= OR >1000	20.0	26.8	27.7	27.8	27.8	27.8	27.8
= OR >600	23.5	32.8	33.9	34.0	34.0	34.0	34.0
= OR >300	24.4	34.2	35.5	35.7	35.7	35.7	35.7
= OR >150	24.5	34.5	35.8	36.1	36.1	36.1	36.1
= OR > 0	24.6	34.7	36.1	36.4	36.4	36.4	36.4
TOTAL	558	788	819	827	827	827	827

TOTAL NUMBER OF OBS: 2270

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.9	11.3	16.0	14.0	9.1	7.0	8.7	6.6	14.0	.3	2424

APRIL

PERIOD: (PRIMARY) 1945-1968  
(OVER-ALL) 1861-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	*
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	*	*	.0	*	.0	*	.0	*	*	.0	.0	6	.3
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	TOTAL	0	0	0	0	0	0	0	1	1	2	1	0	1	0	1	1	0	0	8	.4
2<5	PCP	.0	*	*	.0	.0	*	.0	.0	.1	.0	*	*	.0	.0	*	*	.0	.0	9	.4
	NO PCP	.1	.0	.1	.0	*	*	.1	*	.0	.2	*	.2	.2	*	.0	.0	.0	.0	24	1.1
	TOTAL	2	1	3	0	1	2	3	1	2	4	2	5	4	1	1	1	0	0	33	1.5
5<10	PCP	.1	*	.1	*	.0	*	*	*	.4	.4	.3	.3	.1	.0	.1	.1	.1	.0	53	2.4
	NO PCP	.7	.5	.7	.4	.4	.4	.4	.7	2.9	1.6	1.6	1.4	1.5	1.0	1.0	.8	.0	.2	364	16.2
	TOTAL	18	13	18	10	9	10	11	16	75	45	43	37	37	23	26	19	3	4	417	18.6
10<20	PCP	.1	.0	*	*	.0	*	.0	.0	.1	*	.2	.1	.1	.1	.0	*	.0	.0	21	.9
	NO PCP	5.0	2.9	4.6	3.3	4.9	1.8	4.7	4.0	5.8	3.9	7.3	4.9	7.6	4.7	6.2	5.3	.3	1.6	1767	78.6
	TOTAL	114	65	104	75	110	42	106	90	133	88	167	112	173	109	139	120	6	35	1788	79.6
TOTAL	134	79	125	85	120	54	120	108	211	139	214	154	215	133	167	141	9	39	2247	100.0	
PCT	6.0	3.5	5.6	3.8	5.3	2.4	5.3	4.8	9.4	6.2	9.5	6.9	9.6	5.9	7.4	6.3	.4	1.7	100.0		



APRIL

PERIOD: (PRIMARY) 1945-1968  
(OVER-ALL) 1861-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSZY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1	*
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1	*
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	1	*
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	.0	.0	.0	.0	.0	3	.1
	22&>	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	*	.0	.0	.0	3	.1
	TOTAL	0	0	0	0	0	0	0	1	1	2	1	0	1	0	1	1	1	0	0	8
2<5	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	4-10	*	.0	.1	.0	.0	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	6	.3
	11-21	.0	*	.0	.0	*	*	.1	.0	.0	*	*	.2	.1	*	.0	.0	.0	.0	13	.6
	22&>	*	.0	.0	.0	.0	*	*	*	.1	.1	*	.0	.1	.0	*	*	.0	.0	14	.6
	TOTAL	3	1	3	0	1	2	3	1	2	4	2	5	4	1	1	1	1	0	0	34
5<10	0-3	.0	.0	*	.0	.1	*	.0	.1	.0	.1	.0	*	*	.0	*	.0	.1	.2	18	.8
	4-10	.1	.2	.1	*	.1	.2	.1	.1	.5	.5	.4	.1	.4	.3	.1	.1	.0	.0	77	3.4
	11-21	.5	.4	.4	.4	.1	.2	.4	.4	1.9	.7	1.3	1.0	.9	.4	.7	.7	.0	.0	235	10.4
	22&>	.2	.0	.3	*	*	*	*	*	.8	.7	.3	.5	.4	.4	.3	.1	.0	.0	91	4.0
	TOTAL	18	13	18	10	9	10	11	16	75	45	44	38	38	24	26	19	3	4	421	18.5
10&>	0-3	.3	.1	*	.1	.1	.2	.1	.1	.1	.1	.2	*	.4	.1	.1	*	.2	1.6	93	4.1
	4-10	.9	.6	1.6	1.2	1.6	.6	1.6	1.4	1.8	.9	1.8	.8	1.4	.8	.6	1.4	*	.0	432	19.0
	11-21	3.3	1.6	2.6	1.9	3.0	1.0	2.7	2.1	3.6	2.4	4.8	3.3	4.1	2.2	4.0	3.0	.0	.0	1036	45.6
	22&>	.6	.5	.4	.1	.2	.1	.3	.4	.5	.4	.6	.7	1.8	1.7	1.5	.8	.0	.0	245	10.8
	TOTAL	115	65	106	75	112	42	107	92	135	85	168	112	174	110	142	121	6	36	1806	79.6
TOTAL		136	79	127	85	122	54	121	110	213	139	216	155	217	135	170	142	9	40	2270	100.0
PCT		6.0	3.5	5.6	3.7	5.4	2.4	5.3	4.8	9.4	6.1	9.5	6.8	9.6	5.9	7.5	6.3	.4	1.8	100.0	

APRIL

PERIOD: (PRIMARY) 1945-1968  
(OVER-ALL) 1861-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.1	.1	.6	1.9	3.6	1.9	.6	.3	.3	.1	226	16.9	626
06009	*	*	.3	1.5	4.0	1.9	.7	.2	.1	.1	211	16.6	604
12015	*	.2	.5	1.5	3.7	1.8	1.1	.2	.1	.1	216	15.8	591
18021	.1	.1	.3	1.0	2.7	1.9	.9	.2	.2	.2	181	15.5	549
TOT PCT	8 .3	9 .4	41 1.7	141 5.9	331 14.0	179 7.6	77 3.2	19 .8	16 .7	13 .5	834 35.2	1536 64.8	2370 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	*	.4	4.7	21.2	602
06009	.0	.0	.1	.3	5.3	19.9	588
12015	.0	.0	.1	.4	5.2	18.9	563
18021	*	.0	.1	.3	3.4	19.5	534
TOT PCT	1 *	0 .0	8 .3	34 1.5	426 18.6	1818 79.5	2287 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ &OR5+	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.2	9.7	16.4	602
06009	.0	.0	.1	9.1	16.5	588
12015	.0	.0	.2	9.3	15.2	563
18021	.0	.0	.3	7.6	15.5	534
TOT PCT	0 .0	0 .0	17 .7	815 35.6	1455 63.6	2287 100.0

APRIL

PERIOD: (PRIMARY) 1945-1968  
(OVER-ALL) 1861-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
85/89	.0	.0	.0	*	.0	.0	.0	.0	1	*
80/84	.0	.0	.0	.0	.2	.0	.0	.0	4	.2
75/79	.0	.0	.1	.2	.2	.7	.5	.3	50	2.1
70/74	.0	.0	.1	.7	1.7	4.5	6.4	7.2	498	20.6
65/69	.0	.0	.2	2.1	6.1	10.7	14.0	15.1	1169	48.3
60/64	.1	.0	.8	3.5	7.3	5.7	4.0	2.9	588	24.3
55/59	.0	.0	.1	.5	1.1	1.2	1.0	.2	101	4.2
50/54	.0	.0	.0	.0	.0	*	.2	.1	8	.3
45/49	.0	.0	.0	.0	.0	.0	.0	*	1	*
TOTAL	2	0	31	171	400	557	632	627	2420	100.0
PCT	.1	.0	1.3	7.1	16.5	23.0	26.1	25.9		

TABLE 14

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	*	.0	.0	.0	.0	.0	.0	.0
*	*	.0	*	.0	.0	.0	*	.0	.0
.1	.3	.1	.2	.5	.3	.3	.1	.0	.0
1.0	1.1	1.7	3.0	5.0	5.2	2.4	1.0	.0	.3
3.8	4.6	3.7	5.0	8.8	9.1	7.2	5.0	.2	.9
3.2	3.3	1.5	.9	1.1	1.7	5.4	6.3	.1	.7
1.4	.3	.2	.1	.0	.1	.6	1.4	*	*
*	.0	.0	*	.0	.0	.1	.1	.0	.0
.0	.0	.0	.0	.0	.0	.0	*	.0	.0
234	233	173	228	372	397	389	339	9	46
9.7	9.6	7.1	9.4	15.4	16.4	16.1	14.0	.4	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	77	75	72	67	60	57	52	66.3	978
06&09	76	73	70	65	58	55	48	65.2	666
12&15	79	78	74	68	60	56	50	66.8	874
18&21	86	79	75	68	61	57	51	68.8	567
TOT	86	75	71	65	58	55	48	66.7	3085

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	*	2.0	4.4	7.1	7.5	8.6	80	723
06&09	*	1.6	4.0	5.1	6.6	6.2	79	573
12&15	.0	1.9	3.9	5.3	7.7	8.2	80	664
18&21	.0	2.7	4.3	5.3	4.3	3.1	75	481
TOT	2	202	405	562	635	635	79	2441

PERIOD: (PRIMARY) 1943-1968  
(OVER-ALL) 1861-1968

APRIL

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	4	.0	.2
9/10	.0	.0	.0	.0	.0	.0	.1	.1	*	.0	7	.0	.3
7/8	.0	.0	.0	.0	.0	.1	.5	.3	.0	.0	19	.0	.9
6	.0	.0	.0	.0	.1	.3	.4	.1	.0	.0	19	.0	.9
5	.0	.0	.0	*	.1	.7	.7	.1	.0	.0	38	*	1.7
4	.0	.0	.0	.0	.2	1.7	.9	.0	.0	.0	60	*	2.8
3	.0	.0	.0	*	.5	1.8	.9	.0	.0	.0	70	.0	3.2
2	.0	.0	*	*	1.8	3.8	.5	*	.0	.0	135	.0	6.2
1	.0	.0	.0	.2	3.5	3.7	.6	.0	.0	.0	174	.1	7.9
0	.0	.0	.1	.8	6.8	4.9	.3	.0	.0	.0	283	.0	13.0
-1	.0	.0	*	1.3	6.5	3.1	.1	.0	.0	.0	241	.1	11.0
-2	.0	.0	*	1.8	7.2	1.4	*	.0	.0	.0	229	.0	10.5
-3	.0	.0	.2	2.7	4.8	1.1	*	.0	.0	.0	192	.0	8.8
-4	.0	.0	.2	4.4	4.1	.5	.0	.0	.0	.0	202	*	9.2
-5	.0	.0	.7	4.0	2.1	.2	.0	.0	.0	.0	152	.0	7.0
-6	*	.0	1.0	3.5	1.2	.1	.0	.0	.0	.0	127	.0	5.8
-7/-8	.0	.0	1.7	3.2	1.1	*	.0	.0	.0	.0	129	.0	5.9
-9/-10	.0	.1	1.1	.8	.2	.0	.0	.0	.0	.0	51	.0	2.3
-11/-13	.0	.3	.7	.3	.2	.0	.0	.0	.0	.0	33	.0	1.5
-14/-16	.1	*	.2	*	.0	.0	.0	.0	.0	.0	9	.0	.4
-17/-19	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	3	11	134	507	880	511	110	16	3	0	2175	7	2168
PCT	.1	.5	6.2	23.3	40.5	23.5	5.1	.7	.1	.0	100.0	.3	99.7

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

APRIL  
TABLE 18

AREA 002 BERMUDA  
30-34N 63-67W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						TOTAL	NE						
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.3	.2	.0	.0	.0	.0	3	.0	.2	.2	.0	.0	.0	2
1-2	.2	1.7	1.1	.0	.0	.0	19	.2	1.4	.3	.0	.0	.0	12
3-4	.0	.9	2.0	.2	.0	.0	20	.0	.9	1.6	.0	.0	.0	16
5-6	.0	.5	.9	.3	.0	.0	11	.0	.2	1.1	.0	.0	.0	8
7	.0	.2	1.1	.5	.0	.0	11	.0	.0	.5	.0	.0	.0	3
8-9	.0	.0	.0	.2	.0	.0	1	.0	.0	.0	.3	.0	.0	2
10-11	.0	.0	.0	.5	.0	.0	3	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.2	.0	1	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	3	22	33	10	1	0	69	1	17	23	2	0	0	43
PCT	.5	3.4	5.1	1.6	.2	.0	10.7	.2	2.6	3.6	.3	.0	.0	6.7

HGT	E						TOTAL	SE						
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.2	.3	.0	.0	.0	.0	3	.0	.2	.0	.0	.0	.0	1
1-2	.2	1.4	.2	.0	.0	.0	11	.0	2.0	.6	.0	.0	.0	17
3-4	.0	1.4	.6	.0	.0	.0	13	.0	.8	.9	.0	.0	.0	11
5-6	.0	.2	.6	.2	.0	.0	8	.0	.2	1.2	.2	.0	.0	10
7	.0	.0	.6	.0	.0	.0	4	.0	.0	.0	.0	.0	.0	0
8-9	.0	.0	.6	.3	.0	.0	6	.0	.0	.3	.0	.0	.0	2
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.0	.0	.0	1
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	2	21	17	3	0	0	43	0	20	21	1	0	0	42
PCT	.3	3.3	2.6	.5	.0	.0	6.7	.0	3.1	3.3	.2	.0	.0	6.3

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

APRIL

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						TOTAL	SW						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.0	.8	.0	.0	.0	.0	5	.2	.6	.0	.0	.0	.0	5
1-2	.0	1.7	.8	.0	.0	.0	16	.0	2.2	.8	.0	.0	.0	19
3-4	.0	1.6	4.7	.5	.0	.0	43	.0	.6	3.4	.5	.0	.0	29
5-6	.0	.0	1.4	.5	.0	.0	12	.0	.3	4.3	1.1	.0	.0	37
7	.0	.0	.8	1.4	.0	.0	14	.0	.0	1.1	.9	.0	.0	13
8-9	.0	.0	.0	.8	.0	.0	5	.0	.0	.5	.0	.0	.0	3
10-11	.0	.0	.0	.2	.0	.0	1	.0	.0	.0	.3	.2	.0	3
12	.0	.0	.0	.2	.0	.0	1	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.2	.3	.0	3
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	0	26	49	22	0	0	97	1	24	65	19	3	0	112
PCT	.0	4.0	7.6	3.4	.0	.0	15.1	.2	3.7	10.1	3.0	.5	.0	17.4

HGT	W						TOTAL	NW						TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+		
<1	.3	.3	.0	.0	.0	.0	4	.0	.3	.2	.0	.0	.0	3	26
1-2	.0	1.7	1.4	.5	.0	.0	23	.3	1.2	1.2	.0	.0	.0	18	135
3-4	.0	1.1	3.4	.8	.0	.0	34	.0	.9	.8	.3	.0	.0	13	179
5-6	.0	.9	2.0	.6	.0	.0	23	.0	.6	2.2	.9	.0	.0	24	131
7	.0	.2	2.3	.6	.2	.0	21	.0	.0	3.0	.6	.2	.0	24	90
8-9	.0	.0	.3	1.1	.0	.0	9	.0	.2	.5	1.2	.0	.0	12	40
10-11	.0	.0	.0	.3	.2	.0	3	.0	.0	.2	.5	.3	.0	6	17
12	.0	.0	.0	.6	.0	.0	4	.0	.0	.0	.3	.0	.0	2	7
13-16	.0	.0	.2	.5	.8	.2	10	.0	.0	.0	.2	.2	.0	2	14
17-19	.0	.0	.0	.2	.2	.0	2	.0	.0	.0	.0	.0	.0	0	2
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
23-25	.0	.0	.0	.0	.2	.0	1	.0	.0	.0	.0	.0	.0	0	1
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	2	27	62	33	9	1	134	2	21	51	26	4	0	104	644
PCT	.3	4.2	9.6	5.1	1.4	.2	20.8	.3	3.3	7.9	4.0	.6	.0	16.1	100.6

APRIL

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

TABLE 18 (CONT)

AREA 002 BERMUDA  
30-34N 63-67W

WIND SPEED (KTS) VS SEA HEIGHT (FT)							
HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	2.3	2.8	.3	.0	.0	.0	35
1-2	.8	13.1	6.3	.5	.0	.0	135
3-4	.0	8.3	17.1	2.1	.0	.0	180
5-6	.0	2.8	13.6	3.7	.0	.0	131
7	.0	.3	9.2	4.0	.3	.0	90
8-9	.0	.2	2.1	3.8	.0	.0	40
10-11	.0	.0	.3	1.7	.6	.0	17
12	.0	.0	.0	1.1	.0	.0	7
13-16	.0	.0	.2	.8	1.4	.2	16
17-19	.0	.0	.0	.2	.2	.0	2
20-22	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.2	.0	1
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	20	179	321	116	17	1	654
PCT	3.1	27.4	49.1	17.7	2.6	.2	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.0	11.3	17.2	7.5	2.5	1.4	.7	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	292	3
6-7	.0	1.9	6.4	8.4	8.5	3.2	1.4	.6	.4	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	216	5
8-9	.0	.1	1.3	2.6	4.1	2.6	2.0	.4	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	106	7
10-11	.0	.1	.7	.7	1.6	1.3	.6	.7	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	8
12-13	.0	.0	.4	.1	.3	.3	.1	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	9
>13	.0	.0	.0	.1	.1	.0	.3	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	10
INDET	1.3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	0
TOTAL	16	93	180	135	118	62	36	15	24	8	2	2	0	0	0	0	0	0	0	0	691	5
PCT	2.3	13.5	26.0	19.5	17.1	9.0	5.2	2.2	3.5	1.2	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1949-1968  
(OVER-ALL) 1862-1968AREA 002 BERMUDA  
30-34N 63-67W

TABLE 1

## PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW		
N	.1	.0	.1	.0	.0	.0	.0	5	.1	.0	.1	.0	5	144	.2
NNE	.1	.1	.1	.0	.0	.0	.0	8	.0	.0	*	.0	1	82	.3
NE	.2	*	*	.0	.0	.0	.0	8	.0	.0	.2	.0	5	117	.3
ENE	.1	.1	.0	.0	.0	.0	.0	4	.0	.0	*	.0	1	80	.1
E	.2	*	.1	.0	.0	.0	.0	9	.0	.0	.1	.0	3	170	.3
ESE	*	.1	.1	.0	.0	.0	.0	6	.0	.0	*	.0	3	125	.2
SE	.3	.1	.2	.0	.0	.0	.0	18	*	.0	.0	.0	1	180	.6
SSE	.3	.1	.1	.0	.0	.0	.0	14	.1	*	.1	.0	7	166	.5
S	.5	.4	.2	.0	.0	.0	.0	29	.1	*	.3	*	14	367	1.0
SSW	.3	.1	.0	.0	.0	.0	.0	9	*	*	.3	.0	11	248	.3
SW	.3	.2	.2	.0	.0	.0	.0	17	.2	.0	.5	.0	20	277	.6
WSW	.3	*	.2	.0	.0	.0	.0	14	.1	*	.3	.0	10	224	.5
W	.3	.1	.0	.0	.0	.0	.0	11	*	*	.3	.0	9	194	.4
WNW	*	*	*	.0	.0	.0	.0	3	.1	.0	*	.0	3	109	.1
NW	.1	.1	*	.0	.0	.0	.0	5	*	.0	.1	.0	5	112	.2
NNW	.1	.1	.0	.0	.0	.0	.0	4	.0	.0	.1	.0	2	105	.1
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	4	.0
CALM	.1	.1	.0	.0	.0	.0	.0	4	.0	.0	.2	.0	5	78	.1
TOT	.87	.47	.34	.0	.0	.0	.0	168	.22	.6	.76	.1	105	2782	
PCT	3.1	1.7	1.2	.0	.0	.0	.0	6.0	.8	.2	2.7	*	3.8	100.0	6.0

TABLE 2

## PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW		
00003	1.0	.5	.4	.0	.0	.0	.0	53	.1	.1	.7	*	25	762	1.9
06009	.6	.3	.4	.0	.0	.0	.0	37	.6	*	.5	.0	34	738	1.3
12015	1.1	.5	.4	.0	.0	.0	.0	56	.1	.1	.8	.0	26	656	2.0
18021	.3	.4	.1	.0	.0	.0	.0	22	.0	*	.7	.0	20	653	.8
TOT	.87	.47	.34	.0	.0	.0	.0	168	.22	.6	.76	.1	105	2809	
PCT	3.1	1.7	1.2	.0	.0	.0	.0	6.0	.8	.2	2.7	*	3.7	100.0	6.0



MAY

PERIOD: (PRIMARY) 1949-1968  
(OVER-ALL) 1862-1968

TABLE 3

AREA 002 BERMUDA  
30-34N 63-67W

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.5	2.3	1.8	.4	.0	.0	169	5.0	11.0	5.5	2.7	5.2	8.8	4.7	6.5	4.6	3.4
NNE	.2	1.5	1.0	.3	.0	.0	100	3.0	11.3	2.8	5.4	2.4	2.9	3.4	.0	3.4	3.4
NE	.5	2.1	1.8	.1	.0	.0	152	4.5	10.5	5.3	.0	5.8	.0	4.0	6.5	3.2	3.4
ENE	.3	1.7	1.0	.1	.0	.0	104	3.1	9.5	2.5	.0	2.2	2.9	4.6	.0	3.4	.0
E	.9	3.6	1.9	.2	.0	.0	225	6.7	9.5	8.6	.0	5.3	5.9	6.0	12.9	6.6	3.4
ESE	.3	2.6	1.5	.1	.0	.0	151	4.5	10.2	3.7	2.7	4.4	2.9	5.6	6.5	4.5	3.4
SE	.9	3.7	2.6	.2	.0	.0	247	7.4	10.2	9.0	8.1	5.3	.0	7.5	3.2	7.7	3.4
SSE	.3	2.7	2.6	.1	*	.0	193	5.8	11.2	5.9	8.1	6.2	5.9	5.6	.0	5.8	.0
S	1.2	6.0	5.3	.3	.0	.0	430	12.8	10.7	11.6	24.3	15.6	8.8	12.0	3.2	12.7	17.2
SSW	.7	3.9	3.1	.6	*	.0	278	8.3	11.6	7.2	2.7	8.8	17.6	7.8	9.7	9.8	10.3
SW	.8	3.9	4.3	.7	*	.0	327	9.8	12.1	9.8	18.9	9.1	14.7	9.5	12.9	9.3	20.7
WSW	.6	3.4	3.1	.5	.0	.0	258	7.7	11.9	7.4	2.7	8.6	5.9	7.3	9.7	8.2	6.9
W	1.0	3.3	2.6	.3	*	.0	243	7.3	10.2	7.9	8.1	6.0	11.8	7.3	16.1	6.9	6.9
WNW	.3	1.6	1.6	.2	*	.0	124	3.7	11.9	3.7	2.7	4.4	2.9	3.1	3.2	3.7	6.9
NW	.3	1.7	1.6	.2	.0	.0	131	3.9	11.7	3.3	2.7	4.1	.0	3.6	3.2	5.3	6.9
NNW	.2	1.6	1.5	.2	.0	.0	118	3.5	11.3	2.6	2.7	3.7	2.9	4.4	3.2	3.7	3.4
VAR	.1	.0	.0	.0	.0	.0	4	.1	1.3	.1	.0	.0	2.9	.1	.0	.2	.0
CALM	2.8						95	2.8	.0	3.0	8.1	2.9	2.9	3.5	3.2	1.3	.0
TOT	401	1525	1250	168	5	0	3349	100.0	10.6	989	37	712	34	893	31	624	29
PCT	12.0	45.5	37.3	5.0	.1	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	2.5	4.0	1.4	.1	.0	269	8.0	11.1	8.3	8.1	7.6	11.8	8.1	6.5	8.0	6.9
NE	2.6	4.0	1.1	*	.0	256	7.6	10.1	7.8	.0	8.0	2.9	8.6	6.5	6.6	3.4
E	3.9	5.7	1.5	.1	.0	376	11.2	9.8	12.3	2.7	9.7	8.8	11.6	19.4	11.1	6.9
SE	3.4	8.0	1.7	.1	.0	440	13.1	10.7	14.9	16.2	11.5	5.9	13.1	3.2	13.5	3.4
S	5.0	12.5	3.3	.3	.0	708	21.1	11.0	18.8	27.0	24.4	26.5	19.8	12.9	22.4	27.6
SW	4.1	9.2	3.8	.3	.0	585	17.5	12.0	17.2	21.6	17.7	20.6	16.8	22.6	17.5	27.6
W	3.1	6.2	1.3	.3	.0	367	11.0	10.8	11.6	10.8	10.4	14.7	10.4	19.4	10.6	13.8
NW	2.0	4.0	1.3	.1	.0	249	7.4	11.5	6.0	5.4	7.7	2.9	8.0	6.5	9.0	10.3
VAR	.1	.0	.0	.0	.0	4	.1	1.3	.1	.0	.0	2.9	.1	.0	.2	.0
CALM	2.8					95	2.8	.0	3.0	8.1	2.9	2.9	3.5	3.2	1.3	.0
TOT	994	1795	514	46	0	3349	100.0	10.6	989	37	712	34	893	31	624	29
PCT	29.7	53.6	15.3	1.4	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1949-1968  
(OVER-ALL) 1862-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	3.3	14.6	10.5	1.2	*	.0	*	1.0	10.0	30.6	1026
06&09	1.4	10.2	8.9	1.0	.1	.0	*	.7	11.1	22.3	746
12&15	3.5	12.1	9.7	1.4	.0	.0	*	1.0	10.0	27.6	924
18&21	.9	8.7	8.2	1.4	.1	.0	*	.2	11.9	19.5	653
TOT	302	1525	1250	168	5	0	4	95	10.6		3349
PCT	9.0	45.5	37.3	5.0	.1	.0	.1	2.8		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION					MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	
N	1.8	1.1	1.6	.7	131	4.1
NNE	.8	1.0	.6	.5	75	4.3
NE	1.3	.8	1.3	.7	104	4.2
ENE	.9	.6	.8	.4	69	4.3
E	1.5	1.4	2.0	1.3	156	4.7
ESE	1.1	1.0	1.6	1.0	119	4.7
SE	1.2	1.2	2.4	1.6	164	5.2
SSE	1.1	1.0	1.7	1.7	141	5.3
S	2.7	2.2	4.3	3.5	325	5.2
SSW	2.1	1.4	3.2	2.2	225	5.0
SW	2.6	2.0	2.7	2.6	253	4.8
WSW	2.7	1.5	2.3	1.8	213	4.4
W	2.2	1.8	2.1	1.1	185	4.2
WNW	1.3	1.1	1.1	.6	105	4.0
NW	1.4	.9	1.3	.6	108	4.2
NNW	1.6	.9	1.0	.3	99	3.6
VAR	.1	*	*	.0	4	3.0
CALM	1.5	.6	.4	.4	74	3.1
TOT	714	525	774	537	2550	4.6
PCT	28.0	20.6	30.4	21.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)

	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										NH <5/8 ANY HGT	TOTAL OBS
	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+		
N	.0	*	.1	.2	.7	.2	.1	.0	.0	.1	3.6	131
NNE	.0	.0	.1	.1	.4	.1	.0	.0	.0	.0	2.2	75
NE	*	.0	*	.3	.4	.4	.2	*	.1	.0	2.6	104
ENE	.0	.0	*	.2	.2	.3	.0	.0	*	.0	2.0	69
E	.1	*	.1	.5	.5	.4	.2	.0	.1	.0	4.1	156
ESE	.0	.0	.1	.1	.5	.5	.1	.0	.1	.1	3.3	119
SE	.0	.0	.2	.5	.8	.5	.2	.1	.3	.1	3.8	164
SSE	.1	.0	.2	.5	.5	.5	.2	*	*	.2	3.2	141
S	.1	.0	.2	1.4	1.5	.9	.1	.2	.3	.1	8.0	325
SSW	.1	.0	.2	.7	1.1	.6	.2	.1	.2	*	5.6	225
SW	*	*	.2	.8	1.3	1.1	.3	.1	.1	*	6.0	253
WSW	.0	.0	.2	.3	1.3	.5	.1	*	.2	*	5.6	213
W	.0	.0	.2	.4	.7	.5	.1	.1	.1	.0	5.3	185
WNW	.0	.0	*	.3	.4	.0	.0	.1	*	.0	3.3	105
NW	.0	.0	.1	.2	.4	.3	.1	*	*	.0	3.1	108
NNW	.0	.0	.0	.3	.5	.1	*	.0	.1	*	2.9	99
VAR	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.1	4
CALM	.0	.0	*	*	.3	*	*	.0	.0	.0	2.5	74
TOT	11	3	50	175	293	179	48	20	40	19	1712	2550
PCT	.4	.1	2.0	6.9	11.5	7.0	1.9	.8	1.6	.7	67.1	100.0

MAY

PERIOD: (PRIMARY) 1949-1968  
(OVER-ALL) 1862-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	1.5	2.3	2.3	2.3	2.3	2.3	2.3
= OR >5000	2.0	3.0	3.1	3.1	3.1	3.1	3.1
= OR >3500	3.2	4.8	5.0	5.0	5.0	5.0	5.0
= OR >2000	7.8	11.7	12.0	12.0	12.0	12.0	12.0
= OR >1000	16.0	23.0	23.5	23.5	23.5	23.5	23.5
= OR >600	20.3	29.5	30.2	30.3	30.3	30.3	30.3
= OR >300	21.1	31.2	32.1	32.2	32.2	32.2	32.2
= OR >150	21.1	31.3	32.2	32.3	32.3	32.4	32.4
= OR > 0	21.1	31.4	32.4	32.6	32.7	32.8	32.8
TOTAL	537	800	825	830	832	834	834

TOTAL NUMBER OF OBS: 2544

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.8	14.3	18.5	12.2	8.4	7.2	7.6	5.8	11.8	.3	2696

MAY

PERIOD: (PRIMARY) 1949-1968  
(OVER-ALL) 1862-1968

TABLE 8

AREA 002 BERMUDA  
30-34N 63-67W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	1	*
	TOTAL	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	.1
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	2	.1
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	3	.1
1<2	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	.0	.0	.0	3	.1
	NO PCP	.0	.0	.0	.0	*	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.1
	TOTAL	0	0	1	0	1	0	0	1	1	0	0	1	0	0	1	0	0	0	6	.2
2<5	PCP	.0	*	*	.0	.1	.0	.0	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	15	.6
	NO PCP	.0	.0	.0	.0	*	*	*	.0	.1	.2	.1	*	.0	.0	.0	.0	.0	.0	15	.6
	TOTAL	0	1	1	0	3	1	1	3	4	6	6	4	0	0	0	0	0	0	30	1.2
5<10	PCP	.1	.2	.1	*	.1	.1	.4	.2	.4	.2	.2	.2	.1	.1	.1	*	.0	.1	65	2.6
	NO PCP	.5	.6	.7	.4	.6	.6	1.0	1.4	2.5	2.2	2.0	1.5	1.4	.6	.5	.5	.0	.4	437	17.5
	TOTAL	16	20	20	11	18	19	33	40	71	60	36	43	38	17	16	13	0	11	502	20.1
10<20	PCP	.0	*	.1	*	*	*	.2	.0	.3	*	.1	.1	.2	*	*	.1	.0	*	36	1.4
	NO PCP	4.5	2.1	3.1	2.2	5.1	3.8	5.0	3.8	9.5	6.1	7.2	6.2	5.3	3.4	3.5	3.3	.2	2.5	1923	76.9
	TOTAL	113	54	80	57	129	97	128	96	246	154	183	158	139	85	89	84	4	63	1959	78.3
TOTAL PCT		129	75	102	68	151	117	162	141	322	222	245	207	178	102	106	97	4	74	2502	100.0
		5.2	3.0	4.1	2.7	6.0	4.7	6.5	5.6	12.9	8.9	9.8	8.3	7.1	4.1	4.2	3.9	.2	3.0	100.0	

PERIOD: (PRIMARY) 1949-1968  
(OVER-ALL) 1862-1968

MAY

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE.	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	.0	*	.0	.0	.0	.0	.0	3	.1
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	0	3	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	*	.0	.0	.0	.0	.0	.0	3	.1
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	3	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	2	.1
	11-21	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	3	.1
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	0	0	1	0	1	0	0	1	1	1	0	0	1	0	0	1	0	0	6	.2
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	*	.0	*	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	5	.2
	11-21	.0	*	.0	.0	.1	.0	*	.1	.1	.1	.2	.2	.0	.0	.0	.0	.0	.0	20	.8
	22&>	.0	.0	.0	.0	.0	*	.0	*	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	5	.2
	TOTAL	0	1	1	0	3	1	1	3	4	6	6	4	0	0	0	0	0	0	30	1.2
5<10	0-3	.0	.1	.2	.1	.1	*	*	.0	*	*	.1	*	*	.0	.1	.0	.0	.4	32	1.3
	4-10	.2	.3	.2	.2	.3	.3	.4	.2	1.1	.5	.4	.4	.3	.2	.2	.2	.0	.0	138	5.4
	11-21	.4	.3	.4	.1	.4	.4	.7	1.3	1.6	1.4	1.6	.9	.9	.4	.4	.3	.0	.0	295	11.6
	22&>	.1	.1	.0	*	.0	*	.2	*	.2	.4	.2	.4	.2	.0	*	*	.0	.0	49	1.9
	TOTAL	18	20	20	11	19	19	34	40	73	60	59	45	38	17	17	13	0	11	514	20.2
10&>	0-3	.4	.1	.1	.1	.4	.1	.2	.1	.4	.4	.4	.2	.6	.2	.1	.3	.2	2.5	169	6.6
	4-10	1.4	.8	1.2	1.0	2.3	2.0	1.7	1.5	3.6	2.4	2.1	2.2	1.6	.9	1.1	1.0	.0	.0	685	26.9
	11-21	2.3	1.0	1.7	1.1	2.3	1.8	3.1	2.1	5.6	3.1	4.2	3.6	3.3	2.0	2.2	1.9	.0	.0	1047	41.2
	22&>	.4	.2	.2	.0	.2	.1	.1	.1	.2	.3	.6	.3	.2	.3	.2	.2	.0	.0	87	3.4
	TOTAL	114	54	82	57	133	99	129	96	247	157	184	161	144	88	90	86	4	63	1988	78.1
TOTAL		132	75	104	68	156	119	164	141	325	225	250	212	183	105	108	99	4	74	2544	100.0
PCT		5.2	2.9	4.1	2.7	6.1	4.7	6.4	5.5	12.8	8.8	9.8	8.3	7.2	4.1	4.2	3.9	.2	2.9	100.0	

MAY

PERIOD: (PRIMARY) 1949-1968  
(OVER-ALL) 1862-1968AREA 002 BERMUDA  
30-34N 63-67W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND  
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00603	.1	*	.6	2.2	3.2	1.7	.5	.2	.5	.4	249	17.5	713
06609	.2	.0	.5	2.0	2.7	2.1	.4	.2	.4	.2	228	16.9	677
12615	.1	*	.4	1.4	2.6	1.5	.5	.1	.4	.0	187	16.4	622
18621	*	*	.4	1.1	2.5	1.5	.5	.3	.3	.1	179	17.4	642
TOT	11	3	50	177	294	181	48	20	40	19	843	1811	2654
PCT	.4	.1	1.9	6.7	11.1	6.8	1.8	.8	1.5	.7	31.8	68.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00603	*	.0	.1	.2	5.5	20.8	683
06609	.0	*	*	.2	4.9	20.5	659
12615	*	*	*	.4	4.9	17.7	594
18621	*	*	*	.4	4.8	19.2	628
TOT	3	3	6	31	515	2006	2564
PCT	.1	.1	.2	1.2	20.1	78.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND  
CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HR	<150	<600	1000	1000+	NH <5/8	TOTAL
(GMT)	<50YD	<1	<5	6OR5+	ANY HGT	OBS
00603	.0	*	.2	9.4	17.0	683
06609	.0	*	.2	8.7	16.8	659
12615	.0	*	.3	6.9	16.0	594
18621	.0	.0	.2	6.7	17.6	628
TOT	0	3	19	816	1726	2564
PCT	.0	.1	.7	31.8	67.3	100.0

MAY

PERIOD: (PRIMARY) 1949-1968  
(OVER-ALL) 1862-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
85/89	.0	.0	.0	.0	*	*	*	*	4	.1
80/84	.0	.0	*	*	.3	.4	.1	.1	29	1.1
75/79	.0	*	.1	.6	1.3	3.9	4.0	2.4	330	12.3
70/74	.0	.0	.2	1.0	4.4	8.2	16.8	22.2	1414	52.8
65/69	.0	*	*	1.4	4.4	6.8	9.7	7.3	796	29.7
60/64	.0	.0	.0	.5	1.5	.7	.6	.6	105	3.9
55/59	.0	.0	.0	.0	.0	.1	.0	.0	2	.1
TOTAL	0	2	9	95	320	542	838	874	2680	100.0
PCT	.0	.1	.3	3.5	11.9	20.2	31.3	32.6		

TABLE 14

	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM	
	N	NE	E	SE	S	SW	W	NW					
85/89	.0	*	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.0
80/84	.1	*	*	.1	.4	.2	.1	*	.0	*	.0	*	*
75/79	.5	.4	1.0	2.3	3.6	2.4	1.1	.6	.0	.4	.0	.4	
70/74	2.6	3.6	5.1	8.1	13.0	10.7	5.5	2.6	-1	1.4			
65/69	3.6	3.0	4.5	2.4	4.2	4.5	3.3	3.2	*	.9			
60/64	1.1	.4	.5	.1	.3	.2	.7	.7	.0	.0			
55/59	*	.0	*	.0	.0	.0	.0	.0	.0	.0			
TOTAL	211	199	301	349	579	485	286	192	4	74			
PCT	7.9	7.4	11.2	13.0	21.6	18.1	10.7	7.2	.1	2.8			

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0003	89	79	77	71	65	62	59	70.5	1014
0609	77	76	74	70	64	61	58	69.2	736
1215	82	80	76	70	65	63	61	71.0	919
1821	88	82	79	72	66	63	61	73.0	647
TOT	89	79	76	70	64	61	58	70.8	3316

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0003	.0	.8	3.0	5.7	9.5	10.6	83	799		
0609	.0	.5	2.3	3.3	7.8	9.3	84	629		
1215	.0	.9	3.1	6.1	7.8	8.9	82	727		
1821	.0	1.7	3.6	5.2	6.1	3.7	77	548		
TOT	0	107	325	549	844	878	82	2703		

PERIOD: (PRIMARY) 1949-1968  
(OVER-ALL) 1862-1968

MAY

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.1	.0	.0	2	.0	.1
11/13	.0	.0	.0	.0	*	.1	*	.0	5	.0	.2
9/10	.0	.0	.0	.0	.1	.2	.2	.0	14	.0	.6
7/8	.0	.0	*	*	.4	.8	.1	.0	33	.0	1.3
6	.0	.0	.0	.1	.3	.6	.1	.0	35	.0	1.4
5	.0	.0	*	.3	1.0	.7	*	.0	54	.0	2.1
4	.0	.0	.0	.9	1.7	.5	*	.0	80	.0	3.2
3	.0	.0	.2	1.2	2.7	.6	.0	.0	118	*	4.6
2	.0	.0	.2	3.4	3.2	.3	.0	.0	181	*	7.1
1	.0	.0	.5	6.1	3.4	.0	.0	.0	250	.0	9.9
0	.0	.0	2.6	9.8	3.8	.2	*	.0	417	.1	16.4
-1	.0	.0	2.1	8.0	2.4	*	.0	.0	315	*	12.4
-2	.0	.2	3.8	7.1	1.9	.0	.0	.0	326	.0	12.9
-3	.0	.2	2.9	4.7	.8	*	.0	.0	221	.0	8.8
-4	.0	.6	4.0	2.9	.4	*	.0	.0	201	.0	8.0
-5	.0	.4	1.6	1.4	.2	.1	.0	.0	95	.0	3.8
-6	.0	.6	1.1	.9	.0	.0	.0	.0	65	.0	2.6
-7/-8	.1	.9	1.2	.5	.1	.0	.0	.0	73	.0	2.9
-9/-10	.1	.4	.3	.2	*	.0	.0	.0	26	.0	1.0
-11/-13	.0	.3	.1	.0	*	.0	.0	.0	11	.0	.4
-14/-16	.0	.0	*	.0	.0	.0	.0	.0	1	.0	*
TOTAL	6	92	519	1205	575	110	16	0	2523	5	2518
PCT	.2	3.6	20.6	47.8	22.8	4.4	.6	.0	100.0	.2	99.8



PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

MAY  
TABLE 18

AREA 002 BERMUDA  
30-34N 63-67W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						TOTAL	NE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.4	.5	.0	.0	.0	.0	7	.1	.5	.0	.0	.0	.0	5
1-2	.1	1.4	.8	.0	.0	.0	18	.1	1.5	.6	.1	.0	.0	19
3-4	.0	1.0	1.1	.4	.0	.0	20	.0	1.0	1.0	.0	.0	.0	16
5-6	.0	.8	1.1	.4	.0	.0	18	.0	.1	.6	.0	.0	.0	6
7	.0	.0	.1	.0	.0	.0	1	.0	.0	.9	.0	.0	.0	7
8-9	.0	.1	.3	.3	.0	.0	5	.0	.0	.1	.1	.0	.0	2
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	.0	.0	2
12	.0	.0	.0	.1	.0	.0	1	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	.4	3.0	2.7	.9	.0	.0	70	.2	2.5	2.6	.4	.0	.0	57
PCT	.5	3.8	3.4	1.1	.0	.0	8.9	.3	3.2	3.3	.5	.0	.0	7.3

HGT	E						TOTAL	SE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.3	.4	.0	.0	.0	.0	5	.1	.5	.1	.0	.0	.0	6
1-2	.3	4.6	.4	.0	.0	.0	41	.0	3.1	.9	.0	.0	.0	31
3-4	.0	1.5	1.3	.0	.0	.0	22	.0	2.9	1.3	.0	.0	.0	33
5-6	.0	.5	.6	.0	.0	.0	9	.0	.4	2.2	.0	.0	.0	20
7	.0	.0	.1	.1	.0	.0	2	.0	.0	.8	.3	.0	.0	8
8-9	.0	.0	.0	.1	.0	.0	1	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.3	.4	.0	.0	5	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.1	.0	.0	1	.0	.0	.0	.0	.0	.1	1
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	.4	5.5	2.1	.6	.0	.0	86	.1	5.4	4.1	.2	.1	.0	99
PCT	.5	7.0	2.7	.8	.0	.0	11.0	.1	6.9	5.2	.3	.1	.0	12.6

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

MAY  
TABLE 18

AREA 002 BERMUDA  
30-34N 63-67W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						TOTAL	SW						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.1	1.1	.1	.0	.0	.0	11	.3	1.7	.0	.0	.0	.0	15
1-2	.3	4.5	2.2	.0	.0	.0	54	.4	2.9	1.1	.0	.0	.0	35
3-4	.0	3.2	4.5	.1	.0	.0	61	.0	2.4	4.2	.3	.0	.0	54
5-6	.0	.8	3.3	.6	.0	.0	37	.0	.1	2.6	.1	.0	.0	22
7	.0	.0	.5	.3	.0	.0	6	.0	.0	.6	.8	.0	.0	11
8-9	.0	.0	.3	.0	.0	.0	2	.0	.0	.4	.5	.0	.0	7
10-11	.0	.0	.1	.3	.0	.0	3	.0	.0	.0	.3	.0	.0	2
12	.0	.0	.0	.3	.1	.0	3	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.1	.0	.0	1	.0	.0	.0	.1	.1	.0	2
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	3	75	86	13	1	0	178	5	56	70	16	1	0	148
PCT	.4	9.6	11.0	1.7	.1	.0	22.7	.6	7.2	8.9	2.0	.1	.0	18.9

HGT	H						TOTAL	NW						TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+		
<1	.6	.5	.0	.0	.0	.0	9	.1	.6	.0	.0	.0	.0	6	64
1-2	.1	1.5	1.7	.0	.0	.0	26	.0	1.1	.3	.0	.0	.0	11	235
3-4	.1	.8	1.5	.1	.1	.0	21	.0	1.3	1.7	.1	.0	.0	24	251
5-6	.0	.3	1.0	.3	.0	.0	12	.0	.3	1.1	.3	.0	.0	13	137
7	.0	.0	.3	.1	.0	.0	3	.0	.0	1.0	.1	.0	.0	9	47
8-9	.0	.0	.5	.3	.0	.0	6	.0	.0	.1	.1	.0	.0	2	25
10-11	.0	.0	.1	.0	.0	.0	1	.0	.0	.0	.1	.0	.0	1	14
12	.0	.0	.0	.0	.1	.0	1	.0	.0	.0	.0	.0	.0	0	6
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	4
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	7	24	40	6	2	0	79	1	26	33	6	0	0	66	783
PCT	.9	3.1	5.1	.8	.3	.0	10.1	.1	3.3	4.2	.8	.0	.0	8.4	100.0

## MAY

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

TABLE 18 (CONT)

AREA 002 BERMUDA  
30-34N 63-67W

## WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	4.4	5.7	.2	.0	.0	.0	83
1-2	1.5	20.1	7.7	.1	.0	.0	237
3-4	.1	13.8	16.2	1.0	.1	.0	251
5-6	.0	3.1	12.3	1.6	.0	.0	137
7	.0	.0	4.2	1.6	.0	.0	47
8-9	.0	.1	1.6	1.4	.0	.0	25
10-11	.0	.0	.5	1.2	.0	.0	14
12	.0	.0	.0	.5	.2	.0	6
13-16	.0	.0	.0	.2	.2	.0	4
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	48	345	344	62	5	0	804
PCT	6.0	42.9	42.8	7.7	.6	.0	100.0

TABLE 19

## PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	3.3	17.6	21.7	10.2	2.6	.6	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	478	3
6-7	.2	2.0	5.9	6.7	3.0	1.4	1.3	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	180	5
8-9	.0	.2	1.7	2.6	2.7	1.7	1.2	.5	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	6
10-11	.0	.7	.9	.8	.8	.7	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	6
12-13	.0	.0	.1	.5	.1	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	6
>13	.0	.4	.1	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	4
INDET	2.5	.6	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	0
TOTAL	51	182	262	182	79	43	28	9	9	0	1	0	0	0	0	0	0	0	0	0	846	4
PCT	6.0	21.5	31.0	21.5	9.3	5.1	3.3	1.1	1.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

01 (PRIMARY) 1945-1968  
(OVER-ALL) 1863-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OBS TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
N	.3	.0	.0	.0	.0	.0	.0	6	*	.0	.0	.0	.0	1	47	.3
NNE	*	.0	*	.0	.0	.0	.0	2	.0	.0	.0	.0	.0	0	31	.1
NE	.2	.1	.0	.0	.0	.0	.0	6	*	.0	.1	.0	.0	3	91	.3
ENE	.1	*	.2	.0	.0	.0	.0	7	.0	*	.0	.0	.0	1	71	.3
E	.1	.0	*	.0	.0	.0	.0	4	.0	.0	.0	.0	.0	0	131	.2
ESE	.0	*	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	0	117	*
SE	.2	.2	.1	.0	.0	.0	.0	12	*	.0	*	.0	.0	2	152	.5
SSE	.2	.1	*	.0	.0	.0	.0	9	.0	*	.0	.0	.0	1	162	.4
S	.4	.4	.3	.0	.0	.0	.0	25	.2	.0	.2	.0	.0	9	357	1.0
SSW	.2	.3	.2	.0	.0	.0	.0	15	.2	.0	*	.0	.0	6	257	.6
SW	.5	.4	.1	.0	.0	.0	.0	25	.3	.0	.3	.0	.0	14	355	1.0
WSW	.2	.3	.0	.0	.0	.0	.0	12	.1	.0	.3	*	.0	11	192	.5
W	.3	*	*	.0	.0	.0	.0	8	.1	.0	.3	.0	.0	11	174	.3
WNW	*	.1	.0	.0	.0	.0	.0	4	.1	.0	.1	.0	.0	5	85	.2
NW	.1	*	.0	.0	.0	.0	.0	3	.0	.0	.2	.0	.0	4	82	.1
NNW	.0	*	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	0	28	*
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0	8	.0
CALM	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.0	.0	3	60	.0
TOT	65	49	26	0	0	0	0	140	26	2	42	1	71	2400		
PCT	2.7	2.0	1.1	.0	.0	.0	.0	5.8	1.1	.1	1.8	*	3.0	100.0	5.8	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OBS TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
00003	.7	.5	.3	.0	.0	.0	.0	38	.3	*	.8	.0	.0	27	662	1.6
06009	.4	.4	.3	.0	.0	.0	.0	26	.8	*	.4	*	.0	30	601	1.1
12015	.7	.6	.3	.0	.0	.0	.0	39	.0	.0	.2	.0	.0	6	577	1.6
18021	.9	.5	.2	.0	.0	.0	.0	38	.0	.0	.4	.0	.0	9	587	1.6
TOT	66	49	26	0	0	0	0	141	26	2	43	1	72	2427		
PCT	2.7	2.0	1.1	.0	.0	.0	.0	5.8	1.1	.1	1.8	*	3.0	100.0	5.8	

JUNE

PERIOD: (PRIMARY) 1945-1968  
(OVER-ALL) 1863-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.5	1.1	.5	.0	.0	.0	62	2.1	7.6	1.7	.0	1.5	6.3	2.9	.0	2.3	.0
NNE	.2	1.0	.2	*	.0	.0	42	1.4	8.7	1.6	4.5	1.5	.0	1.7	.0	.5	3.7
NE	.3	1.8	1.1	.3	.0	.0	103	3.5	10.4	2.8	4.5	1.5	12.5	4.7	7.4	4.1	7.4
ENE	.2	1.1	1.3	.2	.0	.0	83	2.8	12.3	2.0	4.5	3.3	.0	3.2	.0	3.2	3.7
E	.5	3.1	1.7	*	.0	.0	156	5.3	9.6	5.0	.0	7.0	6.3	5.6	18.5	3.4	.0
ESE	.4	3.0	1.2	.2	.0	.0	140	4.8	9.4	4.8	4.5	3.9	.0	4.6	3.7	5.5	14.8
SE	.6	4.1	1.8	.2	.0	.0	196	6.7	9.3	6.2	13.6	5.8	.0	7.5	3.7	7.1	3.7
SSE	.7	3.7	2.0	.1	.0	.0	193	6.6	9.3	7.0	13.6	6.3	6.3	6.0	14.8	6.0	11.1
S	.8	8.0	5.3	.3	.0	.0	426	14.5	10.2	14.5	.0	13.4	18.8	14.2	11.1	16.8	7.4
SSW	.6	4.7	4.3	.8	*	.0	307	10.4	11.8	10.4	4.5	13.9	.0	8.5	11.1	10.1	11.1
SW	.8	6.9	6.1	.7	.0	.0	429	14.6	11.5	15.3	4.5	17.0	6.3	13.1	7.4	14.3	7.4
WSW	.7	3.6	3.8	.4	.0	.0	250	8.5	11.2	9.3	13.6	8.1	18.8	7.9	14.8	7.8	7.4
W	.8	3.8	2.9	.3	*	.0	231	7.8	10.5	8.3	9.1	7.0	12.5	8.0	.0	8.1	3.7
WNW	.3	1.6	1.3	.1	.0	.0	96	3.3	10.6	3.7	9.1	3.3	6.3	2.9	.0	2.7	7.4
NW	.5	2.1	.7	.1	*	.0	101	3.4	8.6	3.1	4.5	3.8	.0	3.4	3.7	3.7	3.7
MNW	.3	.8	.1	.0	.0	.0	36	1.2	6.2	1.4	4.5	.3	.0	1.3	.0	1.6	3.7
VAR	.2	.1	.0	.0	.0	.0	8	.3	2.5	.0	.0	.2	.0	.2	3.7	.7	.0
CALM	3.0						87	3.0	.0	3.1	4.5	2.1	6.3	4.0	.0	2.1	3.7
TOT	340	1481	1013	109	3	0	2946	100.0	10.0	884	22	583	16	822	27	565	27
PCT	11.5	50.3	34.4	3.7	.1	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	1.7	1.6	.2	.0	.0	104	3.5	8.0	3.3	4.5	3.1	6.3	4.6	.0	2.8	3.7
NE	1.7	3.5	1.0	.1	.0	186	6.3	11.3	4.9	9.1	4.8	12.5	7.9	7.4	7.3	11.1
E	3.4	5.6	1.1	.0	.0	296	10.0	9.5	9.7	4.5	11.0	6.3	10.2	22.2	8.8	14.8
SE	4.1	8.1	.9	*	.0	389	13.2	9.3	13.2	27.3	12.2	6.3	13.5	18.5	13.1	14.8
S	6.6	14.2	4.0	.1	.0	733	24.9	10.9	24.9	4.5	27.3	18.8	22.7	22.2	26.9	18.5
SW	5.0	13.9	4.0	.2	.0	679	23.0	11.4	24.5	18.2	25.0	25.0	21.0	22.2	22.1	14.8
W	3.5	5.8	1.6	.1	.0	327	11.1	10.5	12.0	18.2	10.3	18.8	10.9	.0	10.8	11.1
NW	2.5	1.9	.3	*	.0	137	4.7	8.0	4.4	9.1	4.1	.0	4.7	3.7	5.3	7.4
VAR	.3	.0	.0	.0	.0	8	.3	2.5	.0	.0	.2	.0	.2	3.7	.7	.0
CALM	3.0					87	3.0	.0	3.1	4.5	2.1	6.3	4.0	.0	2.1	3.7
TOT	932	1609	386	19	0	2946	100.0	10.0	884	22	583	16	822	27	565	27
PCT	31.6	54.6	13.1	.6	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1945-1968  
(OVER-ALL) 1863-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	3.3	16.4	9.2	.9	.0	.0	.0	1.0	9.3	30.8	906
06&09	1.0	10.0	7.9	1.0	.0	.0	*	.4	10.9	20.3	599
12&15	3.1	14.4	9.2	.8	.1	.0	.1	1.1	9.6	28.8	849
18&21	1.0	9.5	8.0	1.1	.0	.0	.1	.4	11.1	20.1	592
TOT	247	1479	1013	109	3	0	8	87	10.0		2946
PCT	8.4	50.2	34.4	3.7	.1	.0	.3	3.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10		MEAN CLOUD COVER
				8	10	
N	.6	.1	.6	.3	37	4.9
NNE	.3	.1	.3	.5	26	5.6
NE	.5	1.1	.9	1.0	75	5.1
ENE	.6	.7	.6	1.1	65	5.1
E	1.7	1.4	1.2	1.2	119	4.3
ESE	.9	1.6	1.3	1.1	106	4.8
SE	1.9	2.0	1.8	.9	141	4.2
SSE	2.4	1.6	1.7	1.1	148	4.1
S	3.7	3.5	4.9	2.7	319	4.6
SSW	2.4	2.6	4.1	2.0	239	4.8
SW	3.8	3.2	4.3	3.3	316	4.8
WSW	1.5	1.6	3.0	2.0	175	5.2
W	2.4	1.7	1.9	1.5	160	4.3
WNN	1.1	.8	1.4	.1	73	3.8
NW	.9	1.4	.8	.3	73	3.7
NNW	.4	.2	.2	.2	23	4.0
VAR	.1	.2	.1	.0	8	3.5
CALM	.8	1.0	.5	.3	57	3.7
TOT	559	539	638	424	2160	4.6
PCT	25.9	25.0	29.5	19.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL
*	.0	.1	.1	.3	.1	.0	*	*	.0	1.0	37
.0	.0	.0	.2	.3	*	.0	.0	.1	.0	.5	26
.0	*	*	.2	.6	.4	.1	*	.0	.0	2.0	75
.0	.0	*	.2	.6	.1	*	.1	.2	*	1.6	65
.0	*	*	.2	.5	.4	.0	.0	.3	*	4.0	119
.0	*	.1	.3	.6	.5	*	*	.2	.0	3.1	106
.0	.0	.1	.4	.5	.4	*	*	.1	.0	5.0	141
.0	.0	.1	.1	.7	.4	.2	.0	.0	.0	5.4	148
.0	.1	.1	.9	1.9	.9	.4	.0	.2	.1	10.2	319
*	.1	.3	1.0	.7	.7	.7	.1	*	.0	7.4	239
.1	.0	.3	1.1	1.7	.9	.5	*	.0	*	10.0	316
.0	.0	.0	.7	1.3	.7	.2	.1	.1	.2	4.8	175
.2	.0	.1	.5	.6	.5	.0	.0	.0	.0	5.5	160
*	.0	.0	.2	.4	*	*	*	.0	.0	2.5	73
.0	.0	.1	.3	.1	.3	.0	.0	*	.0	2.5	73
.0	.0	.0	*	.1	.0	.0	.0	.1	.0	.8	23
.0	.0	.0	.0	*	*	.0	.0	.0	.0	.3	8
.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	2.4	57
11	7	33	143	236	138	48	12	31	9	1492	2160
.5	.3	1.5	6.6	10.9	6.4	2.2	.6	1.4	.4	69.1	100.0

JUNE

PERIOD: (PRIMARY) 1945-1968  
(OVER-ALL) 1863-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	1.7	1.9	1.9	1.9	1.9	1.9	1.9
= OR >5000	2.0	2.4	2.4	2.4	2.4	2.4	2.4
= OR >3500	3.5	4.3	4.5	4.6	4.6	4.6	4.6
= OR >2000	8.1	10.5	10.9	11.0	11.0	11.0	11.0
= OR >1000	16.1	20.9	21.8	21.9	21.9	21.9	21.9
= OR >600	20.3	27.0	28.2	28.4	28.5	28.5	28.6
= OR >300	21.1	28.4	29.6	29.9	30.0	30.0	30.1
= OR >150	21.3	28.7	30.0	30.2	30.3	30.4	30.4
= OR > 0	21.3	29.0	30.3	30.6	30.8	30.9	30.9
TOTAL	461	627	655	662	665	667	668

TOTAL NUMBER OF OBS: 2160

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
8.1	14.5	21.1	15.9	9.2	6.2	7.6	5.9	11.2	.4	2307

PERIOD: (PRIMARY) 1945-1968  
(OVER-ALL) 1863-1968

JUNE

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	NO PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	2	.1
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	1	*
	NO PCP	.0	.0	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	3	.1
	TOTAL	0	0	0	0	0	0	0	1	0	1	0	0	0	1	1	0	0	0	0	4	.2
1<2	PCP	*	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.0	*	.0	.0	.0	.0	.0	.0	4	.2
	NO PCP	.0	.0	.0	.0	.0	.0	.0	*	*	.0	*	.0	*	.0	.0	.0	.0	.0	.0	4	.2
	TOTAL	1	0	0	0	0	0	0	1	2	0	2	0	2	0	0	0	0	0	0	8	.4
2<5	PCP	.0	.0	*	*	*	.0	*	.0	.3	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	13	.6
	NO PCP	*	*	.0	.0	.0	*	.1	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	23	1.1
	TOTAL	1	1	1	1	1	1	4	0	8	4	4	6	4	0	0	0	0	0	0	36	1.7
5<10	PCP	*	.0	*	.1	.0	.0	.3	.3	.2	.3	.2	.2	.1	*	.1	.0	.0	.0	.0	43	2.0
	NO PCP	.4	.2	.2	.3	.2	.4	.3	1.4	2.0	1.3	1.7	1.5	2.0	.7	.5	.3	*	.3	.3	294	13.7
	TOTAL	9	4	6	9	5	8	14	36	48	35	41	37	45	15	12	6	1	6	6	337	15.7
10<25	PCP	*	*	.1	.1	*	.0	.1	.1	.2	.2	.5	.2	*	.0	.0	*	.0	.0	.0	38	1.8
	NO PCP	1.2	.9	3.0	2.4	5.2	4.4	5.5	5.0	11.9	9.1	11.9	5.7	4.9	2.7	2.8	.7	.3	.3	2.4	1717	80.2
	TOTAL	26	21	68	54	112	95	120	110	259	199	265	127	106	57	61	17	7	7	51	1755	81.9
TOTAL	37	26	75	64	118	104	139	148	317	239	313	170	158	73	73	23	8	8	57	2142	100.0	
PCT		1.7	1.2	3.5	3.0	5.5	4.9	6.5	6.9	14.8	11.2	14.6	7.9	7.4	3.4	3.4	1.1	.4	2.7	100.0		



JUNE

PERIOD: (PRIMARY) 1943-1968  
(OVER-ALL) 1863-1968

TABLE 9

AREA 002 BERMUDA  
30-34N 63-67W

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1	*
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	3
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	1	*
	11-21	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.0	.0	*	.0	.0	.0	.0	.0	3	.1
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	1	0	1	0	0	0	1	1	0	0	0	0	4
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	1	*
	4-10	*	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	3	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-1	-0	.0	.0	.0	.0	.0	.0	2	.1
	22&>	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	TOTAL	1	0	0	0	0	0	0	1	2	0	2	0	2	0	0	0	0	0	0	8
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	*	.0	*	.0	.0	.0	.0	.0	.1	.0	*	*	.0	.0	.0	.0	.0	.0	7	.3
	11-21	.0	*	.0	.0	*	*	.2	.0	.2	.1	.1	.2	.1	.0	.0	.0	.0	.0	25	1.2
	22&>	.0	.0	.0	*	.0	.0	.0	.0	.0	*	*	.0	*	.0	.0	.0	.0	.0	4	.2
	TOTAL	1	1	1	1	1	1	1	4	0	8	4	4	6	4	0	0	0	0	0	36
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.1	.0	.1	.1	.0	.0	14	.6
	4-10	.2	.1	.1	*	.1	.1	.1	.6	.8	.3	.5	.4	.6	.2	.2	.1	*	.0	101	4.7
	11-21	.2	.1	.1	.4	.1	.2	.3	1.1	1.2	1.0	1.3	1.3	1.1	.5	.2	.1	.0	.0	197	9.1
	22&>	.0	.0	*	.0	.0	*	.2	*	.1	.3	.1	.1	.2	*	*	.0	.0	.0	29	1.3
	TOTAL	9	4	6	10	5	8	14	36	48	35	42	39	45	15	12	6	1	6	341	15.8
10&>	0-3	.3	.1	.2	.1	.3	.3	.4	.5	.5	.5	.1	.4	.3	.1	.1	.1	.3	2.4	152	7.0
	4-10	.4	.3	1.1	.6	2.2	1.8	2.8	2.4	5.3	3.6	4.2	2.1	1.8	.9	1.5	.4	*	.0	679	31.4
	11-21	.5	.5	1.7	1.6	2.6	2.2	2.4	2.1	6.0	4.9	7.4	3.2	2.8	1.5	1.0	.2	.0	.0	882	40.8
	22&>	.0	*	.2	.2	*	.2	*	*	.2	.2	.6	.3	.1	.1	.1	.0	.0	.0	55	2.5
	TOTAL	26	21	68	54	112	97	122	110	261	199	267	130	108	57	61	17	7	51	1768	81.9
TOTAL		37	26	75	65	119	106	141	148	319	239	316	175	160	73	73	23	8	57	2160	100.0
PCT		1.7	1.2	3.5	3.0	5.5	4.9	6.5	6.9	14.8	11.1	14.6	8.1	7.4	3.4	3.4	1.1	.4	2.6	100.0	

JUNE

PERIOD: (PRIMARY) 1945-1968  
(OVER-ALL) 1863-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.2	.2	.5	1.4	2.7	1.3	.7	.3	.3	.1	174	18.9	601
06009	.1	.1	.3	1.6	2.4	1.2	.5	.1	.3	.0	150	17.5	545
12015	.1	.0	.5	1.7	2.7	1.9	.3	.0	.4	.1	172	16.7	549
18021	.1	.0	.2	1.6	2.8	1.8	.7	.1	.4	.1	176	17.1	563
TOT	11	7	33	143	239	139	48	12	31	9	672	1586	2258
PCT	.5	.3	1.5	6.3	10.6	6.2	2.1	.5	1.4	.4	29.8	70.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.1	*	.1	.2	4.6	21.3	575
06009	.0	*	.1	.5	3.6	20.0	527
12015	*	.0	*	.6	3.4	19.7	518
18021	.0	.1	*	.3	4.1	21.0	555
TOT	3	4	8	36	342	1782	2175
PCT	.1	.2	.4	1.7	15.7	81.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ &OR5+	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	*	.3	7.7	18.4	575
06009	.0	.0	.2	6.7	17.3	527
12015	.0	.0	.2	7.7	15.9	518
18021	.0	*	.2	7.9	17.4	555
TOT	0	2	16	654	1503	2175
PCT	.0	.1	.7	30.1	69.1	100.0

JUNE

PERIOD: (PRIMARY) 1945-1968  
(OVER-ALL) 1863-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
90/94	.0	*	.0	*	*	*	.0	.0	4	.2
85/89	.0	.0	.1	.2	.4	.5	.1	.2	36	1.5
80/84	.0	.0	.0	.1	1.4	5.0	3.2	1.9	273	11.6
75/79	*	.0	*	.5	2.3	11.9	22.0	19.2	1316	56.0
70/74	.0	.0	.0	.4	2.7	4.0	7.9	13.5	670	28.5
65/69	.0	.0	.0	.0	.3	.3	.8	.6	46	2.0
60/64	.0	.0	.0	.0	.0	.0	.1	*	4	.2
TOTAL	1	1	3	30	167	510	802	835	2349	100.0
PCT	*	*	.1	1.3	7.1	21.7	34.1	35.5		

TABLE 14

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	*	*	*	.0	.0	*	.0	.0
.1	.1	.2	.1	.3	.5	.1	*	.0	.1
.3	.6	.9	1.4	2.9	2.9	1.8	.5	.1	.3
1.1	2.4	4.9	7.2	15.2	15.3	5.7	2.3	.2	1.7
1.6	3.1	3.8	3.7	5.6	4.8	3.6	1.8	*	.5
.3	.2	.5	.1	.1	.2	.2	.2	.0	.1
.0	.0	.1	.1	.0	.0	.0	.0	.0	.0
.82	148	246	297	570	556	267	114	8	61
3.5	6.3	10.5	12.6	24.3	23.7	11.4	4.9	.3	2.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	85	82	76	71	68	60	75.8	908
06009	94	80	78	74	69	67	64	74.4	594
12015	94	88	83	77	71	68	64	76.1	841
18021	90	89	85	78	72	68	65	77.8	583
TOT	94	85	81	75	70	67	60	76.0	2926

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.3	2.1	5.9	10.1	11.6	85	709		
06009	*	.1	1.1	3.1	8.2	9.6	86	525		
12015	.0	.4	1.9	5.5	9.0	10.2	84	640		
18021	.0	.6	2.1	7.3	6.9	4.0	80	493		
TOT	1	34	169	515	810	838	84	2367		

PERIOD: (PRIMARY) 1945-1968  
(OVER-ALL) 1863-1968

JUNE

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.1	.2	*	7	.0	.3
9/10	.0	.0	.0	.0	.1	.3	.5	.1	21	.0	1.0
7/8	.0	.0	.0	*	.6	.9	.2	.0	37	.0	1.7
6	.0	.0	.0	.2	.7	.4	.1	.0	31	.0	1.4
5	.0	.0	.0	.5	1.1	.9	.2	.0	57	.0	2.7
4	.0	.0	.0	.5	2.1	.6	.0	.0	68	.0	3.2
3	.0	.0	.1	1.3	2.7	.6	.0	.0	100	.0	4.7
2	.0	.0	.3	3.0	4.2	.8	.0	.0	178	.0	8.3
1	.0	.0	.6	6.1	4.9	.6	.0	.0	262	.0	12.2
0	.0	.0	1.4	9.2	6.0	.5	.0	.0	368	*	17.1
-1	.0	.0	1.6	7.8	3.9	*	.0	*	287	.0	13.3
-2	.0	.1	2.2	6.9	3.0	.1	.0	.0	265	*	12.3
-3	.0	.1	1.9	4.2	1.7	.0	*	.0	170	.0	7.9
-4	*	.3	1.8	3.8	.6	.0	.0	.0	140	.0	6.5
-5	*	.1	1.1	1.0	.3	.1	.0	.0	56	.0	2.6
-6	*	.2	.7	1.2	.5	.0	.0	.0	35	.0	2.6
-7/-8	*	.2	.6	.4	.2	*	.0	.0	32	.0	1.5
-9/-10	.0	.0	.2	.4	.1	.0	.0	.0	15	.0	.7
TOTAL	4	22	268	1000	697	126	27	5	2149	2	2147
PCT	.2	1.0	12.5	46.5	32.4	5.9	1.3	.2	100.0	.1	99.9

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

JUNE  
TABLE 18

AREA 002 BERMUDA  
30-34N 63-67W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	.3	.3	.0	.0	.0	.0	4	.0	.3	.0	.0	.0	.0	2
1-2	.1	.6	.1	.0	.0	.0	6	.0	1.2	.7	.0	.0	.0	13
3-4	.0	.4	.4	.0	.0	.0	6	.1	1.0	1.5	.1	.0	.0	19
5-6	.0	.6	.3	.0	.0	.0	6	.0	.4	1.5	.4	.0	.0	16
7	.0	.0	.0	.1	.0	.0	1	.0	.1	1.2	.3	.0	.0	11
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.1	.0	.0	3
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.3	.0	.0	3
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.0	.0	.0	1
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	3	13	6	1	0	0	23	1	21	37	9	0	0	68
PCT	.4	1.9	.9	.1	.0	.0	3.3	.1	3.1	5.4	1.3	.0	.0	9.9

HGT	E							SE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	.0	2.6	.1	.1	.0	.0	20	.3	1.2	.0	.0	.0	.0	10
1-2	.1	3.8	.4	.0	.0	.0	30	.4	3.9	1.5	.0	.0	.0	40
3-4	.0	2.3	2.8	.0	.0	.0	35	.1	3.3	2.5	.0	.0	.0	41
5-6	.0	.4	1.3	.1	.0	.0	13	.0	.3	1.3	.3	.0	.0	13
7	.0	.0	.7	.3	.0	.0	7	.0	.0	.1	.0	.0	.0	1
8-9	.0	.0	.4	.0	.0	.0	3	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.3	.1	.0	.0	3	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	63	42	5	0	0	111	6	60	37	2	0	0	105
PCT	.1	9.2	6.1	.7	.0	.0	16.2	.9	8.7	5.4	.3	.0	.0	15.3

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

JUNE  
TABLE 18

AREA 002 BERMUDA  
30-34N 63-67W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						TOTAL	SW						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.6	1.9	.1	.0	.0	.0	18	.1	.7	.3	.0	.0	.0	8
1-2	.4	6.7	2.2	.0	.0	.0	64	.1	3.2	1.7	.0	.0	.0	35
3-4	.0	3.8	3.6	.1	.0	.0	52	.0	2.2	4.2	.3	.0	.0	46
5-6	.0	.4	2.6	.4	.0	.0	24	.0	.4	1.7	.0	.0	.0	15
7	.0	.0	2.2	.3	.0	.0	17	.0	.0	1.2	.3	.0	.0	10
8-9	.0	.0	.1	.3	.0	.0	3	.0	.0	.4	.1	.0	.0	4
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.1	.0	.0	1
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	7	88	75	8	0	0	178	2	45	66	6	0	0	119
PCT	1.0	12.8	10.9	1.2	.0	.0	25.9	.3	6.6	9.6	.9	.0	.0	17.3

HGT	W						TOTAL	NW						TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+		
<1	.0	.9	.1	.0	.0	.0	7	.3	.6	.0	.0	.0	.0	.0	6
1-2	.4	1.3	.4	.0	.0	.0	15	.1	1.3	.1	.0	.0	.0	.0	11
3-4	.0	1.2	1.3	.0	.0	.0	17	.0	.9	.1	.0	.0	.0	.0	7
5-6	.0	.1	1.2	.0	.0	.0	9	.0	.0	.1	.0	.0	.0	.0	1
7	.0	.1	.4	.1	.0	.0	5	.0	.0	.0	.1	.0	.0	.0	1
8-9	.0	.0	.4	.0	.0	.0	3	.0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.1	.0	.0	1	.0	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	3	25	27	2	0	0	57	3	19	3	1	0	0	26	
PCT	.4	3.6	3.9	.3	.0	.0	8.3	.4	2.8	.4	.1	.0	.0	3.8	

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

JUNE

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)							
HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	4.4	8.4	.7	.1	.0	.0	97
1-2	1.8	21.2	7.0	.0	.0	.0	214
3-4	.7	14.6	15.9	.6	.0	.0	226
5-6	.0	2.7	9.7	1.3	.0	.0	97
7	.0	.3	5.6	1.5	.0	.0	53
8-9	.0	.0	1.7	.6	.0	.0	16
10-11	.0	.0	.4	.7	.0	.0	8
12	.0	.0	.1	.0	.0	.0	1
13-16	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	49	336	293	34	0	0	712
PCT	6.9	47.2	41.2	4.8	.0	.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.2	20.8	21.2	5.8	2.1	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	430	2
6-7	.1	1.7	8.1	7.4	3.8	.4	.3	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	167	4
8-9	.5	.9	2.8	1.5	3.0	.8	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80	5
10-11	.0	1.1	.7	.7	.9	.5	.4	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	34	5
12-13	.0	.0	.1	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
>13	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	2
INDET	3.8	.9	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	0
TOTAL	81	193	250	119	75	18	14	2	1	0	2	0	0	0	0	0	0	0	0	755	3
PCT	10.7	25.6	33.1	15.8	9.9	2.4	1.9	.3	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1945-1967  
(OVER-ALL) 1856-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RA- SHWR	PRECIPITATION TYPE					HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT FREQ PCPN AT OBS TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	FOG				SMOKE HAZE	DUST BLWG SNOW	TOTAL OTHER WEA				
N	.1	*	.0	.0	.0	.0	.0	3	.0	.0	.0	.0	0	27	.1		
NNE	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	21	.0		
NE	.0	*	.0	.0	.0	.0	.0	1	.0	.0	.1	.0	2	49	*		
ENE	.0	.0	*	.0	.0	.0	.0	1	.0	.0	.0	*	1	44	*		
E	.1	.2	*	.0	.0	.0	.0	7	*	*	*	.0	3	135	.3		
ESE	*	.2	.0	.0	.0	.0	.0	5	.0	.0	.0	.0	0	83	.2		
SE	.1	.3	.0	.0	.0	.0	.0	12	.2	.0	*	.0	5	184	.5		
SSE	.1	.1	.0	.0	.0	.0	.0	4	.1	.0	.0	.0	3	172	.2		
S	.3	.5	*	.0	.0	.0	.0	20	.5	.0	.2	.0	18	429	.8		
SSW	.1	.4	*	.0	.0	.0	.0	15	.3	*	.1	*	13	360	.6		
SW	.3	.5	*	.0	.0	.0	.0	22	.3	*	.1	.0	12	433	.8		
WSW	.2	.6	*	.0	.0	.0	.0	21	.2	.0	.2	.0	8	249	.8		
W	*	.1	*	.0	.0	.0	.0	5	.2	.0	.1	.0	8	178	.2		
WNW	.0	.1	.0	.0	.0	.0	.0	2	.1	.0	*	.0	3	63	.1		
NW	*	.1	.0	.0	.0	.0	.0	3	.0	.0	.0	.0	0	39	.1		
NNW	*	.0	.0	.0	.0	.0	.0	1	.0	.0	*	.0	1	24	*		
VAR	*	*	.0	.0	.0	.0	.0	2	.0	.0	.0	.0	0	6	.1		
CALM	*	.0	.0	.0	.0	.0	.0	1	.1	.0	.2	.0	7	112	*		
TOT	.38	.80	.7	.0	.0	.0	.0	125	.54	.3	.25	.2	84	2608			
PCT	1.5	3.1	.3	.0	.0	.0	.0	4.8	2.1	.1	1.0	.1	3.2	100.0	4.8		

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE					HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT FREQ PCPN AT OBS TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	FOG				SMOKE HAZE	DUST BLWG SNOW	TOTAL OTHER WEA				
00&03	.4	.8	.1	.0	.0	.0	.0	34	.4	.0	.3	*	20	715	1.3		
06&09	.4	.6	*	.0	.0	.0	.0	27	1.5	.1	.2	.0	46	724	1.0		
12&15	.5	1.2	.1	.0	.0	.0	.0	46	*	.0	.2	.0	5	604	1.7		
18&21	.2	.5	.1	.0	.0	.0	.0	20	.1	*	.3	*	13	610	.8		
TOT	.40	.80	.7	.0	.0	.0	.0	127	.54	.3	.25	.2	84	2653			
PCT	1.5	3.0	.3	.0	.0	.0	.0	4.8	2.0	.1	.9	.1	3.2	100.0	4.8		



JULY

PERIOD: (PRIMARY) 1945-1967  
(OVER-ALL) 1856-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.3	.5	.2	.0	.0	.0	35	1.1	6.7	1.4	.0	.6	.0	1.4	.0	1.0	.0
NNE	.1	.6	.1	.0	.0	.0	28	.9	6.0	1.2	.0	.9	.0	.8	.0	.5	3.2
NE	.2	1.3	.3	.0	.0	.0	57	1.8	7.4	1.8	5.9	1.6	.0	1.6	.0	2.2	.0
ENE	.2	.9	.5	*	.0	.0	52	1.6	9.8	1.9	.0	1.4	.0	1.5	6.9	1.5	.0
E	.7	3.0	1.2	.0	.0	.0	160	4.9	7.9	5.0	2.9	6.0	10.3	4.7	3.4	3.9	3.2
ESE	.4	2.2	.8	.0	.0	.0	111	3.4	8.6	3.7	.0	2.4	3.4	3.6	3.4	4.4	.0
SE	.5	4.3	1.8	*	.0	.0	213	6.6	9.0	6.2	5.9	5.8	24.1	6.2	10.3	7.7	6.5
SSE	.6	4.4	1.9	.0	.0	.0	222	6.9	8.9	5.3	14.7	7.3	10.3	8.0	17.2	5.6	12.9
S	1.3	8.7	6.0	.6	*	.1	540	16.7	10.6	14.9	32.4	18.3	13.8	18.1	13.8	15.0	16.1
SSW	.5	6.9	5.9	.5	.0	.0	448	13.8	11.0	13.1	14.7	12.0	13.8	15.2	17.2	14.3	25.8
SW	1.1	8.2	7.2	.7	*	.0	563	17.4	11.2	17.3	.0	19.4	10.3	16.5	17.2	18.3	9.7
WSW	.6	4.4	3.9	.3	*	.0	301	9.3	11.2	9.3	5.9	8.7	3.4	10.3	6.9	8.9	12.9
W	.6	4.3	1.7	.1	.0	.0	217	6.7	8.8	9.1	.0	6.1	3.4	5.0	.0	7.0	3.2
WNW	.4	1.2	.7	*	*	.0	79	2.4	9.1	2.8	.0	2.6	.0	2.3	3.4	2.2	.0
NW	.3	1.0	.4	.0	.0	.0	56	1.7	7.9	1.7	.0	1.0	.0	2.1	.0	2.6	.0
NNW	.2	.6	.1	*	.0	.0	27	.8	6.6	1.2	.0	.7	.0	.7	.0	.9	.0
VAR	.1	.1	.0	.0	.0	.0	6	.2	3.0	.2	.0	.3	.0	.0	.0	.3	.0
CALM	3.8						122	3.8	.0	4.0	17.6	5.0	6.9	2.1	.0	3.6	6.5
TOT	390	1703	1060	78	4	2	3237	100.0	9.6	954	34	701	29	873	29	586	31
PCT	12.0	52.6	32.7	2.4	.1	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)								
	0-6	7-16	17-27	28-40					00	03	06	09	12	15	18	21	
N	1.3	.6	*	.0	.0	63	1.9	6.4	2.5	.0	1.4	.0	2.2	.0	1.5	3.2	
NE	1.4	1.8	.2	.0	.0	109	3.4	8.5	3.7	5.9	3.0	.0	3.1	6.9	3.8	3.0	
E	3.6	4.3	.5	.0	.0	271	8.4	8.2	8.7	2.9	8.4	13.8	8.2	6.9	8.4	3.2	
SE	4.5	8.1	.8	*	.0	435	13.4	9.0	11.5	20.6	13.1	34.5	14.2	27.6	13.3	19.4	
S	8.0	18.4	3.8	.2	.1	988	30.5	10.8	28.0	47.1	30.2	27.6	33.3	31.0	29.4	41.9	
SW	6.7	15.4	4.3	.2	*	864	26.7	11.2	26.6	5.9	28.1	13.8	26.8	24.1	27.1	22.6	
W	3.7	4.5	.9	*	.0	296	9.1	8.9	11.9	.0	8.7	3.4	7.3	3.4	9.2	3.2	
NW	1.4	1.1	.1	.0	.0	83	2.6	7.5	2.8	.0	1.7	.0	2.7	.0	3.4	.0	
VAR	.2	.0	.0	.0	.0	6	.2	3.0	.2	.0	.3	.0	.0	.0	.3	.0	
CALM	3.8					122	3.8	.0	4.0	17.6	5.0	6.9	2.1	.0	3.6	6.5	
TOT	1118	1759	342	14	4	3237	100.0	9.6	954	34	701	29	873	29	586	31	
PCT	34.5	54.3	10.6	.4	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

JULY

PERIOD: (PRIMARY) 1945-1967  
(OVER-ALL) 1856-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	2.3	17.6	8.6	.6	.0	.0	.1	1.4	9.0	30.5	988
06&09	1.8	12.1	6.9	.4	*	*	.1	1.1	9.3	22.6	730
12&15	2.9	13.8	9.7	.7	.1	*	.0	.6	9.8	27.9	902
18&21	1.2	9.0	7.5	.6	*	.0	.1	.7	10.5	19.1	617
TOT	264	1701	1060	78	4	2	6	122	9.6		3237
PCT	8.2	52.5	32.7	2.4	.1	.1	.2	3.8		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION					MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBS	TOTAL OBS	
N	.5	.3	.3	.1	26	3.3
NNE	.3	.2	.2	*	19	3.3
NE	.7	.5	.6	.2	48	3.8
ENE	.4	.5	.6	.2	43	4.1
E	2.4	1.5	1.2	.3	129	3.3
ESE	1.5	1.1	.5	.3	80	3.3
SE	2.8	2.3	1.6	.4	168	3.5
SSE	2.2	2.3	1.6	.3	154	3.7
S	5.2	4.9	4.6	1.6	389	4.0
SSW	4.1	3.9	4.5	1.3	327	4.1
SW	5.0	4.9	5.1	1.8	401	4.1
WSW	3.2	2.1	2.7	1.3	221	4.2
W	2.4	1.8	1.8	.7	162	3.9
WNW	.9	.7	.8	.2	61	3.8
NW	.5	.7	.3	*	37	3.5
NNW	.3	.3	.2	.3	24	4.5
VAR	*	*	.1	.0	4	4.5
CALM	2.0	1.3	.6	.2	98	2.9
TOT	819	700	653	219	2391	3.8
PCT	34.3	29.3	27.3	9.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION															
000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS				
149	299	599	999	1999	3499	4999	6499	7999							
.0	*	*	.1	*	*	.0	.0	.0	.0	.8	26				
.0	.0	.0	.0	.1	.0	.0	.0	.0	*	.6	19				
.0	.0	.1	*	.3	.0	.1	*	.0	.0	1.5	48				
.0	.0	*	.0	.1	.1	*	.0	.0	.0	1.5	43				
*	.0	*	.2	.1	.2	.1	.0	.0	*	4.7	129				
.0	.0	.0	.1	.2	.2	*	.0	.0	.0	2.9	80				
.0	.0	.1	.1	.2	.3	.1	.1	.0	.0	6.1	168				
.0	.0	.0	.1	.2	.3	.1	.0	.0	.0	5.8	154				
.0	.0	.0	.3	1.8	.5	.3	.0	*	.0	13.4	389				
.0	.0	.1	.4	.9	.4	.3	.1	.1	*	11.4	327				
.0	*	*	1.0	.8	.8	.3	*	*	.1	13.4	401				
.0	.0	*	.8	.7	.5	.1	.0	.0	.0	7.1	221				
.0	.0	.0	*	.7	.2	.2	.0	.0	.0	5.7	162				
.0	.0	*	.0	.2	.1	.0	.0	.0	.0	2.2	61				
.0	.0	.0	.0	.1	*	.0	.0	.0	.0	1.4	37				
.0	.0	.0	.0	.1	.1	.0	*	*	*	.8	24				
.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.1	4				
.0	.0	.0	.0	.2	*	.0	*	*	*	3.8	98				
4	3	15	78	156	88	37	8	5	7	1990	2391				
.2	.1	.6	3.3	6.5	3.7	1.5	.3	.2	.3	83.2	100.0				

JULY

PERIOD: (PRIMARY) 1945-1967  
(OVER-ALL) 1856-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	.4	.5	.5	.5	.5	.5	.5
= OR >5000	.7	.8	.8	.8	.8	.8	.8
= OR >3500	1.8	2.3	2.4	2.4	2.4	2.4	2.4
= OR >2000	4.3	6.1	6.3	6.3	6.3	6.3	6.3
= OR >1000	9.8	12.5	12.7	12.7	12.7	12.8	12.8
= OR >600	12.1	15.5	15.9	15.9	15.9	16.0	16.0
= OR >300	12.4	16.1	16.5	16.6	16.6	16.6	16.6
= OR >150	12.5	16.2	16.6	16.7	16.7	16.7	16.7
= OR > 0	12.5	16.3	16.6	16.8	16.8	16.9	16.9
TOTAL	302	393	402	405	406	408	408

TOTAL NUMBER OF OBS: 2415

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.7	18.5	30.2	18.7	9.2	5.2	5.4	2.1	4.0	.1	2577

JULY

PERIOD: (PRIMARY) 1945-1967  
(OVER-ALL) 1856-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	1	*
	NO PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	TOTAL	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	3	.1
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1	*
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	*
1<2	PCP	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.0	3	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	3	.1
2<5	PCP	*	.0	.0	.0	.0	.0	.0	*	.2	.0	.0	*	*	.0	.0	.0	.0	.0	8	.3	
	NO PCP	.0	.0	.0	.0	*	*	.0	.0	.0	*	*	*	.1	.0	.0	.0	.0	.0	*	8	.3
	TOTAL	1	0	0	0	1	1	0	1	4	1	1	2	3	0	0	0	0	0	1	16	.7
5<10	PCP	*	.0	*	.0	.0	.1	.1	.1	.3	.1	.3	.2	.0	.0	.0	.0	.0	.0	*	31	1.3
	NO PCP	.1	*	*	.1	.4	.2	.2	.5	1.1	1.4	1.8	.6	.5	.2	.2	.3	.0	.1	179	7.6	
	TOTAL	3	1	2	2	9	6	6	14	32	35	51	20	12	4	4	6	0	3	210	8.9	
10<	PCP	.0	.0	.0	*	.3	.1	.3	*	.2	.3	.3	.3	.1	*	.1	*	*	.0	48	2.0	
	NO PCP	.9	.8	1.9	1.7	4.8	2.9	6.5	5.8	14.5	11.8	14.1	7.8	6.1	2.3	1.3	.7	.1	4.0	2081	86.1	
	TOTAL	22	18	45	41	119	71	160	138	348	285	340	191	148	55	32	18	4	94	2129	90.1	
TOTAL	26	19	47	43	129	79	167	153	384	321	394	215	163	60	36	24	4	98	2362	100.0		
PCT	1.1	.8	2.0	1.8	5.5	3.3	7.1	6.5	16.3	13.6	16.7	9.1	6.9	2.5	1.5	1.0	.2	4.1	100.0			

JULY

PERIOD: (PRIMARY) 1945-1967  
(OVER-ALL) 1856-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	2	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	1	*	
	226>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	TOTAL	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	3	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	226>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	1	*	
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	*
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	2	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	226>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1	*	
	TOTAL	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	3	.1
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	*
	4-10	*	.0	.0	.0	.0	*	.0	*	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	7	.3	
	11-21	.0	.0	.0	.0	.0	*	.0	*	*	*	.0	.1	*	.0	.0	.0	.0	.0	6	.2	
	226>	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	2	.1	
	TOTAL	1	0	0	0	1	1	0	1	4	1	1	2	3	0	0	0	0	0	1	16	.7
5<10	0-3	.1	.0	.0	.0	*	.0	.0	.1	.0	.0	.2	.0	.0	*	.0	*	.0	.1	16	.7	
	4-10	.0	.0	*	*	.1	.1	.1	.2	.3	.3	.5	.1	.2	.1	.1	2	.0	.0	55	2.3	
	11-21	*	*	*	*	.2	.2	.2	.3	.9	1.0	1.3	.7	.2	*	.1	*	.0	.0	129	5.3	
	226>	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.2	.0	.1	.0	.0	.0	.0	.0	14	.6	
	TOTAL	3	1	2	2	9	6	6	14	33	36	52	21	12	4	4	6	0	3	214	8.9	
106>	0-3	.2	.1	.2	.2	.7	.3	.3	.3	1.1	.3	.8	.6	.5	.3	.3	.2	.1	3.9	247	10.2	
	4-10	.4	.6	1.2	.9	2.9	1.4	3.3	2.7	5.7	4.7	5.7	2.8	3.0	1.1	.6	.5	*	.0	903	37.4	
	11-21	.3	.1	.6	.7	1.4	1.2	3.1	2.8	7.6	6.8	7.7	4.6	2.7	.8	.5	*	.0	.0	989	41.0	
	226>	.0	.0	.0	*	.0	.0	*	.0	.4	.4	.5	.2	.0	.1	.0	*	.0	.0	39	1.6	
	TOTAL	22	18	47	43	120	72	162	140	356	295	352	198	148	56	33	18	4	94	2178	90.2	
TOTAL		26	19	49	45	130	80	169	155	393	332	407	223	163	61	37	24	4	98	2415	100.0	
PCT		1.1	.8	2.0	1.9	5.4	3.3	7.0	6.4	16.3	13.7	16.9	9.2	6.7	2.5	1.5	1.0	.2	4.1	100.0		

JULY

PERIOD: (PRIMARY) 1945-1967  
(OVER-ALL) 1856-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	*	.0	.1	.8	2.0	1.1	.4	.1	.1	.0	118	21.3	663
06&09	*	*	.3	.7	1.6	.9	.3	.0	*	.1	100	23.4	699
12&15	.0	.1	.2	.9	1.3	1.2	.3	*	.1	.1	107	18.6	582
18&21	.1	.0	*	.7	1.4	.5	.5	.2	.0	.1	87	20.6	614
TOT PCT	4 .2	3 .1	15 .6	78 3.0	160 6.3	94 3.7	37 1.4	9 .4	5 .2	7 .3	412 16.1	2146 83.9	2558 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	.2	2.2	23.5	634
06&09	.1	.0	*	.2	2.2	24.6	665
12&15	.0	.0	*	.2	2.2	20.2	555
18&21	*	*	*	.1	2.0	21.9	593
TOT PCT	3 .1	1 *	3 .1	16 .7	215 8.8	2209 90.3	2447 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ 60R5+	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	4.8	21.1	634
06&09	.0	.0	.1	4.0	23.1	665
12&15	.0	.0	.1	4.3	18.3	555
18&21	.0	.1	.1	3.4	20.7	593
TOT PCT	0 .0	2 .1	6 .2	404 16.5	2035 83.2	2447 100.0

JULY

PERIOD: (PRIMARY) 1945-1967  
(OVER-ALL) 1856-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
90/94	.0	.0	.0	.1	.4	*	*	.0	16	.6
85/89	.0	.0	.0	.3	2.1	3.0	.9	.2	168	6.4
80/84	.0	.0	.0	*	3.5	22.6	16.7	5.5	1276	48.5
75/79	.0	.0	.0	.3	1.9	10.0	20.1	10.0	1113	42.3
70/74	.0	.0	.0	.0	.2	.5	.4	1.2	60	2.3
TOTAL	0	0	0	20	213	951	1007	442	2633	100.0
PCT	.0	.0	.0	.8	8.1	36.1	38.2	16.8		

TABLE 14

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.1	.1	.1	.1	.1	*	.0	.0	*
.1	.2	.5	.4	2.2	1.7	.8	.1	.0	.3
.8	1.5	3.7	6.8	15.3	12.8	4.8	1.1	.1	1.6
.8	1.5	3.4	6.0	13.8	10.8	2.8	1.0	.2	2.1
.1	.2	.3	.1	.5	.5	.3	*	.0	.2
.48	.90	2.09	3.54	8.42	6.85	2.31	.58	.6	1.10
1.8	3.4	7.9	13.4	32.0	26.0	8.8	2.2	.2	4.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	91	88	85	80	76	73	72	79.9	980
06&09	88	84	81	78	74	72	71	78.4	727
12&15	93	88	84	79	75	73	70	80.1	898
18&21	94	92	88	82	77	74	72	81.8	612
TOT	94	88	84	78	74	72	70	80.0	3217

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.3	1.9	11.3	10.8	4.5	81	771		
06&09	.0	.1	.9	6.1	10.9	5.7	83	634		
12&15	.0	.2	1.9	10.3	10.5	4.4	81	727		
18&21	.0	.2	3.3	8.9	5.8	2.0	78	541		
TOT	0	21	215	977	1015	445	81	2673		

JULY

PERIOD: (PRIMARY) 1945-1967  
(OVER-ALL) 1856-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	93 96	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.1	*	.0	.0	4	.0	.2
11/13	.0	.0	*	.3	.1	*	*	11	.0	.5
9/10	.0	.0	*	.2	.1	.2	.0	11	.0	.5
7/8	.0	*	.2	.3	.4	.3	.0	29	*	1.2
6	.0	*	.1	.3	.6	.1	.0	26	.0	1.1
5	.0	.0	.3	.3	.6	.1	.0	32	.0	1.4
4	.0	.1	.6	1.6	.5	.0	.0	65	.0	2.8
3	.0	*	.6	2.0	.7	.0	.0	75	.0	3.3
2	.0	.1	2.3	3.8	.8	.0	.0	162	.0	7.0
1	.0	.3	5.3	4.7	.4	.0	.0	247	*	10.7
0	*	.5	9.8	6.0	.1	.0	.0	379	.0	16.5
-1	.0	.6	10.6	5.0	.1	.0	.0	373	.0	16.2
-2	.0	1.1	10.1	2.6	*	.0	.0	320	.0	13.9
-3	.0	1.5	7.7	1.0	.0	.0	.0	235	.0	10.2
-4	.1	1.8	4.2	.7	.0	.0	.0	158	.0	6.9
-5	.2	1.1	2.2	.3	*	.0	.0	91	*	3.9
-6	.1	.6	.7	*	*	.0	.0	35	.0	1.5
-7/-8	.1	.8	.7	*	.0	.0	.0	3	.0	1.7
-9/-10	*	.1	.1	.0	.0	.0	.0	7	.0	.3
TOTAL	15	202	1286	676	104	15	1	2299	3	22.9
PCT	.7	8.8	55.9	29.4	4.5	.7	*	100.0	.1	99.9



PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

JULY  
TABLE 18

AREA 002 BERMUDA  
30-34N 63-67W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	.1	.0	.0	.0	.0	.0	1	.3	.4	.0	.0	.0	.0	5
1-2	.0	.4	.0	.0	.0	.0	3	.0	1.0	.1	.0	.0	.0	8
3-4	.0	.1	.0	.0	.0	.0	1	.0	.5	.3	.0	.0	.0	6
5-6	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.0	.0	.0	1
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	4	0	0	0	0	5	2	14	4	0	0	0	20
PCT	.1	.5	.0	.0	.0	.0	.7	.3	1.9	.5	.0	.0	.0	2.7

HGT	E							SE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	.3	1.4	.1	.0	.0	.0	13	.5	2.5	.1	.0	.0	.0	23
1-2	.4	1.6	1.2	.0	.0	.0	24	.1	5.1	2.3	.0	.0	.0	55
3-4	.0	2.1	.8	.0	.0	.0	21	.0	3.0	2.1	.0	.0	.0	37
5-6	.0	.7	.3	.0	.0	.0	7	.0	1.0	1.0	.1	.0	.0	15
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	5	42	18	0	0	0	65	5	84	40	1	0	0	130
PCT	.7	5.8	2.5	.0	.0	.0	8.9	.7	11.5	5.5	.1	.0	.0	17.8

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

JULY  
TABLE 18

AREA 002 BERMUDA  
30-34N 63-67W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.3	3.2	.5	.0	.0	.0	29	.1	1.9	.4	.0	.0	.0	18	102	
1-2	.4	9.1	5.5	.0	.0	.0	109	.3	2.1	1.8	.0	.0	.0	30	245	
3-4	.0	4.1	8.8	.1	.0	.0	95	.0	3.3	4.3	.4	.0	.0	58	229	
5-6	.1	1.4	7.0	.4	.0	.0	65	.0	.1	3.0	.3	.0	.0	25	117	
7	.0	.0	.5	.7	.0	.0	9	.0	.3	1.1	.4	.0	.0	13	26	
8-9	.0	.0	.3	.1	.0	.0	3	.0	.0	.4	.1	.0	.0	4	8	
10-11	.0	.0	.1	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0	1	
12	.0	.0	.0	.1	.0	.0	1	.0	.0	.0	.0	.0	.0	0	1	
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
TOTAL	6	129	166	11	0	0	312	3	56	80	9	0	0	148	729	
PCT	.8	17.7	22.8	1.5	.0	.0	42.8	.4	7.7	11.0	1.2	.0	.0	20.3	100.0	

HGT	W							NW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.1	1.0	.0	.0	.0	.0	8	.1	.5	.0	.0	.0	.0	5	102	
1-2	.1	1.6	.1	.0	.0	.0	14	.0	.1	.0	.1	.0	.0	2	245	
3-4	.0	.3	1.0	.0	.0	.0	9	.0	.0	.3	.0	.0	.0	2	229	
5-6	.0	.1	.3	.0	.0	.0	3	.0	.0	.1	.0	.0	.0	1	117	
7	.0	.1	.3	.0	.0	.0	3	.0	.1	.0	.0	.0	.0	1	26	
8-9	.0	.0	.1	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0	8	
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	1	
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	1	
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
TOTAL	2	23	13	0	0	0	38	1	6	3	1	0	0	11	729	
PCT	.3	3.2	1.8	.0	.0	.0	5.2	.1	.8	.4	.1	.0	.0	1.5	100.0	

JULY

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)							
HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	8.5	10.2	1.1	.0	.0	.0	156
1-2	1.4	19.6	10.3	.1	.0	.0	247
3-4	.0	12.5	16.2	.5	.0	.0	229
5-6	.1	3.1	11.0	.8	.0	.0	117
7	.0	.5	1.8	1.0	.0	.0	26
8-9	.0	.0	.8	.3	.0	.0	8
10-11	.0	.0	.1	.0	.0	.0	1
12	.0	.0	.0	.1	.0	.0	1
13-16	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	79	360	324	22	0	0	785
PCT	10.1	45.9	41.3	2.8	.0	.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.2	19.5	16.9	5.8	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	393	2
6-7	.5	2.5	10.6	9.6	2.8	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	217	4
8-9	.1	.2	3.6	2.8	1.6	1.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	5
10-11	.1	.4	.6	1.0	.7	.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	5
12-13	.0	.0	.6	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	5
>13	.0	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3
INDET	8.1	1.3	.4	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	0
TOTAL	114	197	266	159	49	17	10	2	1	0	0	0	0	0	0	0	0	0	0	815	3
PCT	14.0	24.2	32.6	19.5	6.0	2.1	1.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1859-1967

AUGUST

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT PCPN AT OB TIME	FREQ
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW			
N	.0	.0	*	.0	.0	.0	.0	1	*	.0	.0	.0	1	36	*	
NNE	*	.0	.0	.0	.0	.0	.0	1	.0	.0	.1	.0	2	37	*	
NE	.0	.1	*	.0	.0	.0	.0	3	*	*	.0	.0	2	63	.1	
ENE	.0	.1	.0	.0	.0	.0	.0	3	*	.0	*	.0	2	70	.1	
E	.1	.1	*	.0	.0	.0	.0	6	.1	.0	.0	.0	2	168	.2	
ESE	.2	.1	.1	.0	.0	.0	.0	9	.2	.0	.0	.0	5	134	.4	
SE	.2	.4	.0	.0	.0	.0	.0	14	.1	.0	.0	.0	2	196	.6	
SSE	.1	.2	.0	.0	.0	.0	.0	7	.2	.0	*	.0	7	167	.3	
S	.3	.2	*	.0	.0	.0	.0	13	.6	.0	.0	*	15	328	.5	
SSW	.3	.2	.0	.0	.0	.0	.0	14	.2	.0	.0	.0	5	232	.6	
SW	.2	.7	.1	.0	.0	.0	.0	26	.4	.0	*	.0	11	349	1.1	
WSW	.0	.3	*	.0	.0	.0	.0	8	.4	.0	*	*	14	257	.3	
W	.2	.3	.0	.0	.0	.0	.0	11	.2	.0	*	.0	7	156	.5	
WNW	*	.0	*	.0	.0	.0	.0	2	.1	.0	.0	.0	3	56	.1	
NW	.0	.1	*	.0	.0	.0	.0	3	*	.0	.0	.0	1	52	.1	
NNW	*	*	*	.0	.0	.0	.0	3	.0	.0	.0	.0	0	26	.1	
VAR	*	.0	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	0	10	*	
CALM	.0	.1	*	.0	.0	.0	.0	3	.0	.0	.0	.0	0	94	.1	
TOT	.43	.72	.13	.0	.0	.0	.0	128	.66	.1	.10	.2	79	2431		
PCT	1.8	3.0	.5	.0	.0	.0	.0	5.3	2.7	*	.4	.1	3.2	100.0	5.3	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT PCPN AT OB TIME	FREQ
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW			
0000	.5	1.0	*	.0	.0	.0	.0	38	.7	.0	.1	.0	21	692	1.5	
0600	.2	.6	*	.0	.0	.0	.0	21	1.7	*	.0	.0	44	640	.8	
1200	.7	1.1	.2	.0	.0	.0	.0	51	.2	.0	.1	*	10	594	2.1	
1800	.3	.4	.2	.0	.0	.0	.0	22	*	.0	.2	*	6	552	.9	
TOT	.44	.75	.13	.0	.0	.0	.0	132	.68	.1	.10	.2	81	2478		
PCT	1.8	3.0	.5	.0	.0	.0	.0	5.3	2.7	*	.4	.1	3.3	100.0	5.3	

AUGUST

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1859-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.6	1.1	.3	.0	.0	.0	58	1.9	6.2	2.1	.0	1.1	.0	2.7	.0	1.7	.0
NNE	.3	.6	.4	.1	.0	.0	43	1.4	9.2	1.5	.0	1.5	8.0	1.7	.0	.7	.0
NE	.5	1.4	.5	.1	.0	.0	75	2.5	8.3	2.6	.0	4.2	.0	1.7	.0	2.0	.0
ENE	.4	1.7	1.0	*	.0	.0	94	3.1	9.2	3.7	.0	2.8	4.0	3.2	.0	2.8	.0
E	.9	4.1	1.3	.2	.1	.0	196	6.6	8.6	5.3	.0	6.5	4.0	7.5	6.3	7.8	5.0
ESE	.5	3.2	1.3	.1	.0	.0	154	5.1	8.9	5.2	16.0	3.4	4.0	6.1	.0	5.6	.0
SE	.8	4.7	2.0	.3	.1	.0	239	8.0	9.4	7.7	4.0	7.8	8.0	8.7	12.5	7.6	10.0
SSE	.9	3.7	2.1	.2	.0	.0	205	6.9	9.2	6.3	4.0	8.4	16.0	6.9	18.8	5.4	5.0
S	1.1	7.1	4.0	.5	.0	.0	379	12.7	9.9	11.2	12.0	14.9	20.0	11.4	6.3	14.3	15.0
SSW	.6	4.3	3.7	.3	.0	.0	269	9.0	10.8	7.9	8.0	11.2	4.0	8.0	6.3	9.8	20.0
SW	1.4	7.3	5.9	.3	.0	.0	447	14.9	10.2	15.4	16.0	13.3	16.0	15.5	18.8	15.2	10.0
WSW	1.0	5.3	4.1	.2	.0	.0	317	10.6	10.3	11.0	24.0	9.7	8.0	10.1	31.3	10.4	15.0
W	1.0	3.9	2.2	.1	.0	.0	216	7.2	8.7	8.6	4.0	6.0	.0	7.6	.0	6.5	5.0
WNW	.4	1.3	.6	.1	.0	.0	72	2.4	8.7	3.2	.0	1.3	8.0	2.1	.0	2.6	5.0
NW	.3	1.5	.4	*	.0	.0	69	2.3	8.0	2.2	4.0	2.4	.0	2.3	.0	2.6	.0
NNW	.1	.9	.3	.0	.0	.0	40	1.3	7.8	1.6	.0	.6	.0	1.3	.0	1.9	.0
VAR	.2	.2	.0	.0	.0	.0	10	.3	3.5	.5	4.0	.2	.0	.1	.0	.2	5.0
CALM	3.6						109	3.6	.0	4.0	4.0	4.5	.0	3.1	.0	3.1	5.0
TOT	441	1567	907	73	4	0	2992	100.0	9.1	910	25	616	25	840	16	540	20
PCT	14.7	52.4	30.3	2.4	.1	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	1.8	1.4	.1	.0	.0	101	3.4	7.5	3.6	.0	2.6	8.0	4.4	.0	2.4	.0
NE	2.3	2.9	.5	.0	.0	169	5.6	8.8	6.4	.0	7.0	4.0	4.9	.0	4.8	.0
E	4.7	6.2	.7	.1	.0	350	11.7	8.8	10.4	16.0	9.9	8.0	13.6	6.3	13.3	5.0
SE	6.0	7.3	1.3	.2	.0	444	14.8	9.3	14.0	8.0	16.2	24.0	15.6	31.3	13.0	15.0
S	6.1	13.1	2.3	.2	.0	648	21.7	10.3	19.1	20.0	26.1	24.0	19.4	12.5	24.1	35.0
SW	7.2	15.0	3.3	*	.0	764	25.5	10.3	26.4	40.0	23.1	24.0	25.6	50.0	25.6	25.0
W	4.1	5.0	.5	*	.0	288	9.6	8.7	11.8	4.0	7.3	8.0	9.8	.0	9.1	10.0
NW	1.8	1.6	.2	.0	.0	109	3.6	7.9	3.8	4.0	3.1	.0	3.6	.0	4.4	.0
VAR	.3	.0	.0	.0	.0	10	.3	3.5	.5	4.0	.2	.0	.1	.0	.2	5.0
CALM	3.6					109	3.6	.0	4.0	4.0	4.5	.0	3.1	.0	3.1	5.0
TOT	1135	1571	269	17	0	2992	100.0	9.1	910	25	616	25	840	16	540	20
PCT	37.9	52.5	9.0	.6	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1859-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	3.7	17.4	8.0	.7	*	.0	.2	1.2	8.5	31.3	935
06&09	2.5	11.0	6.4	.5	.0	.0	*	.9	9.0	21.4	641
12&15	3.5	15.1	8.3	.8	.1	.0	*	.9	9.1	28.6	856
18&21	1.1	8.8	7.7	.4	*	.0	.1	.6	10.5	18.7	560
TOT	327	1562	907	73	4	0	10	109	9.1		2992
PCT	10.9	52.2	30.3	2.4	.1	.0	.3	3.6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

BY WIND DIRECTION

WIND DIR	BY WIND DIRECTION				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & GBSCD		
N	.6	.4	.4	.3	36	4.2
NNE	.5	.6	.3	.1	33	3.6
NE	1.0	.7	.6	.2	53	3.4
ENE	1.1	.9	.6	.1	58	3.6
E	2.9	3.1	1.1	.2	157	3.1
ESE	1.9	1.4	1.5	.4	114	3.7
SE	2.0	2.3	2.5	.9	165	4.1
SSE	2.6	1.9	1.9	.9	157	4.0
S	4.8	4.1	3.9	.9	297	3.8
SSW	3.5	2.4	2.9	1.0	216	3.9
SW	4.2	4.4	4.9	1.1	316	4.1
WSW	2.7	3.3	2.9	.9	212	4.1
W	2.1	2.2	2.0	.2	140	3.8
WNW	.6	.6	.9	.1	49	4.0
NW	.3	1.0	.5	.2	41	4.2
NNW	.3	.2	.4	.2	25	4.7
VAR	.2	.2	*	*	10	3.7
CALM	1.9	1.0	.7	*	80	2.6
TOT	718	668	602	171	2159	3.8
PCT	33.3	30.9	27.9	7.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										NH <5/8 ANY HGT	TOTAL OBS	
	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+			
N	.0	.0	*	.1	.1	.0	.0	.0	.0	.0	.0	1.4	36
NNE	.0	.0	.0	.0	.2	*	.0	.0	.0	.0	.0	1.3	33
NE	.0	.0	*	.2	.1	.1	.0	.0	.0	.0	.1	1.9	53
ENE	.0	.0	.0	*	.1	.1	.0	.0	.0	*	*	2.3	58
E	.0	.0	.0	.1	.3	*	*	.0	.0	.0	.0	6.8	157
ESE	.0	*	.0	.1	.3	.1	*	*	.1	.0	.0	4.5	114
SE	.0	.0	.1	.3	.3	.2	.3	.1	.0	.1	.0	6.3	165
SSE	.1	.0	.1	.3	.4	.3	.1	*	.0	*	*	6.0	157
S	.1	.0	*	.5	1.0	.6	.4	.0	*	*	*	11.1	297
SSW	*	*	.1	.3	.6	.4	.1	*	.0	.0	.0	8.4	216
SW	.1	.0	*	.5	1.5	.6	.2	.0	*	*	*	11.5	316
WSW	.0	.0	*	.4	.6	.5	.1	*	.0	.1	.0	8.0	212
W	.0	.0	.1	.0	.3	.4	.1	.0	.0	.0	.0	5.6	140
WNW	.0	.0	.0	*	.1	.1	.0	.0	.0	.0	.0	2.0	49
NW	.0	.0	.0	.1	*	.1	*	.0	.0	.0	.0	1.5	41
NNW	.0	*	.0	*	.2	*	.0	*	.0	.0	.0	.8	25
VAR	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.4	10
CALM	.0	.0	.0	.0	.1	*	.1	.0	.0	.0	*	3.4	80
TOT	8	3	13	66	139	80	32	7	5	11	1795	2159	
PCT	.4	.1	.6	3.1	6.4	3.7	1.5	.3	.2	.5	83.1	100.0	

PERIOD: (PRIMARY) 1944-1967  
 (OVER-ALL) 1859-1967

AUGUST

AREA 002 BERMUDA  
 30-34N 63-67W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
 OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	.5	.7	.7	.7	.7	.7	.7
= OR >5000	.8	1.0	1.1	1.1	1.1	1.1	1.1
= OR >3500	2.2	2.5	2.5	2.5	2.5	2.5	2.5
= OR >2000	5.1	6.2	6.3	6.3	6.3	6.3	6.3
= OR >1000	10.4	12.5	12.6	12.7	12.7	12.7	12.7
= OR >600	12.3	15.5	15.7	15.7	15.8	15.8	15.8
= OR >300	12.8	16.1	16.3	16.3	16.4	16.4	16.4
= OR >150	12.8	16.2	16.4	16.4	16.5	16.5	16.5
= OR > 0	13.0	16.5	16.7	16.7	16.8	16.9	16.9
TOTAL	281	356	360	361	364	365	365

TOTAL NUMBER OF OBS: 2162

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.9	17.8	27.3	20.2	11.8	5.7	5.7	2.8	2.6	.2	2304

AUGUST

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1859-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1	*
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	*
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	-1	.0	.0	*	.0	.0	.0	.0	.0	3	.1
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	3	.1
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1	*
	NO PCP	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	2	.1
2<5	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	3	.1
	NO PCP	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	6	.3
	TOTAL	0	0	2	0	0	2	0	2	0	1	0	2	0	0	0	0	0	0	9	.4
5<10	PCP	.0	.0	*	*	.0	.1	.1	.2	.2	*	.3	.2	*	.0	*	.1	.0	.0	30	1.4
	NO PCP	.1	.2	*	*	.6	.4	.6	.7	1.0	.8	1.3	1.2	.1	.2	*	.0	.0	.2	161	7.6
	TOTAL	3	4	2	2	13	11	15	18	26	19	33	30	3	4	2	2	0	4	191	9.0
10<∞	PCP	*	.0	*	*	.1	.1	.3	.1	.2	.2	.4	*	.2	.0	.1	*	*	.0	46	2.2
	NO PCP	1.5	1.4	2.2	2.6	6.4	4.6	6.7	6.1	12.3	8.9	12.2	8.3	6.1	2.1	1.7	1.0	.4	3.5	1873	88.1
	TOTAL	32	29	48	56	139	100	150	132	267	194	269	178	134	45	39	23	10	74	1919	90.3
TOTAL	35	33	52	58	152	113	165	153	293	216	304	210	138	49	41	25	10	78	2125	100.0	
PCT	1.6	1.6	2.4	2.7	7.2	5.3	7.8	7.2	13.8	10.2	14.3	9.9	6.5	2.3	1.9	1.2	.5	3.7	100.0		



PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1859-1967

AUGUST

AREA 002 BERMUDA  
33-34N 63-67W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	*	.0	.0	.0	.0	.0	3	.1
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL		0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	3
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	22&>	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL		0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	2
2<5	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	4-10	.0	.0	*	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.1
	11-21	.0	.0	*	.0	.0	*	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	4	.2
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	1	*
	TOTAL		0	0	2	0	0	2	0	2	0	1	0	2	0	0	0	0	0	0	9
5<10	0-3	.0	*	.0	.0	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.4
	4-10	.1	.1	*	.0	.2	.1	.1	.3	.3	.5	.4	.0	.0	.1	.1	*	.0	.0	62	2.9
	11-21	.0	.0	*	.1	.4	.3	.5	.5	.6	.6	1.1	.9	.1	*	.0	*	.0	.0	111	5.1
	22&>	.0	.0	.0	.0	.0	.1	*	*	.2	*	*	.1	.0	.0	.0	.0	.0	.0	13	.6
	TOTAL		3	4	2	2	13	11	15	19	27	19	35	30	3	4	2	2	0	4	195
10&>	0-3	.5	.1	.3	.3	1.0	.3	.4	.8	.6	.6	1.2	.6	.6	.2	.1	*	.2	3.5	251	11.6
	4-10	.7	.6	1.2	.9	3.6	2.6	3.7	2.5	5.2	2.8	4.6	2.9	2.7	1.1	1.0	.6	.2	.0	795	36.8
	11-21	.3	.5	.7	1.4	1.8	1.8	2.7	2.8	6.4	5.4	6.8	4.8	2.9	.8	.6	.4	.0	.0	869	40.2
	22&>	.0	.1	*	.0	.3	.0	.2	.1	.3	.2	.2	.1	.1	.0	*	.0	.0	.0	37	1.7
	TOTAL		33	29	49	56	143	101	150	134	271	197	279	181	136	45	39	23	10	76	1952
TOTAL		36	33	53	58	156	114	165	156	298	219	316	213	140	49	41	25	10	80	2162	100.0
PCT		1.7	1.5	2.5	2.7	7.2	5.3	7.6	7.2	13.8	10.1	14.6	9.9	6.5	2.3	1.9	1.2	.5	3.7	100.0	

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1859-1967

AUGUST

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND  
OCCURRENCE OF NH <5/8 BY HOUR

HR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	*	.0	.2	1.1	1.8	.9	.3	*	.1	.1	105	22.0	606
06&09	*	.0	*	.7	1.4	.6	.4	.1	.0	.2	79	22.9	602
12&15	.1	.1	*	.4	1.2	.9	.3	.1	.1	.1	77	19.8	528
18&21	.1	*	.3	.7	1.7	1.2	.5	.1	.0	*	106	19.2	545
TOT PCT	.8 .4	.3 .1	.13 .6	.66 2.9	1.39 6.1	.82 3.6	.32 1.4	.8 .4	.5 .2	.11 .5	367 16.1	1914 83.9	2281 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	*	2.7	23.8	580
06&09	.0	*	*	.2	2.4	23.5	574
12&15	.0	.1	.0	.1	1.9	21.1	506
18&21	*	.0	*	*	2.0	21.9	527
TOT PCT	1 *	3 .1	2 .1	9 .6	196 9.0	1976 90.4	2187 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND  
CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HR (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ &DR5+	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	4.8	21.7	580
06&09	.0	.0	*	3.6	22.6	574
12&15	.0	.1	.1	3.4	19.6	506
18&21	.0	*	.1	4.8	19.3	527
TOT PCT	0 .0	3 .1	2 .1	362 16.6	1820 83.2	2187 100.0

AUGUST

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1859-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
95/99	.0	.0	.0	*	*	.0	.0	.0	2	.1
90/94	.0	.0	.1	.0	.3	.1	*	.0	13	.5
85/89	.0	.0	.0	*	2.5	4.2	1.2	.2	196	8.1
80/84	.0	.0	*	.4	4.7	27.6	30.3	7.8	1706	70.9
75/79	.0	.0	*	.3	1.3	4.7	8.2	5.0	472	19.6
70/74	.0	.0	.0	.0	*	.1	.1	.3	14	.6
65/69	.0	.0	.0	.0	.0	.0	*	.1	3	.1
TOTAL	0	0	4	20	212	884	962	324	2406	100.0
PCT	.0	.0	.2	.8	8.8	36.7	40.0	13.5		

TABLE 14

	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW				
95/99	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.0
90/94	*	.1	.0	.0	.1	.2	.1	.0	.0	.0	.0	.0
85/89	.2	.2	1.1	1.2	1.9	1.8	.9	.2	.0	.5		
80/84	1.6	3.6	8.2	10.7	15.9	19.0	7.2	2.0	.3	2.3		
75/79	1.2	1.2	1.6	2.8	4.2	4.7	1.6	1.1	.1	.9		
70/74	.1	.1	.0	.1	.0	.2	.1	*	.0	.0		
65/69	.0	.0	.0	*	.1	.0	.0	.0	.0	.0		
TOTAL	79	127	263	359	535	625	237	82	10	89		
PCT	3.3	5.3	10.9	14.9	22.2	26.0	9.9	3.4	.4	3.7		

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	89	88	84	80	76	74	70	81.0	945
06&09	86	85	83	80	76	74	69	79.9	644
12&15	90	88	85	81	76	74	67	80.9	861
18&21	96	92	88	82	77	72	70	83.1	556
TOT	96	88	85	80	75	73	67	81.1	3006

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	1.8	10.9	13.4	4.5	81	754
06&09	.0	.2	1.4	7.7	10.1	3.1	81	548
12&15	.0	.3	1.4	9.8	11.4	4.4	81	668
18&21	.0	.4	4.2	8.2	5.2	1.5	76	479
TOT	0	25	214	898	982	330	80	2449

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1859-1967

AUGUST

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
14/16	.0	.0	.0	*	*	.0	2	.0	.1
11/13	.0	.0	.0	*	.0	.0	1	.0	*
9/10	.0	.0	*	*	.1	*	5	.0	.2
7/8	.0	.0	*	.1	.4	.3	20	.0	1.0
6	.0	.0	.0	.2	.5	.0	14	.0	.7
5	.0	.0	*	.2	.9	.1	28	.0	1.3
4	.0	.0	.0	.7	1.5	.2	51	.0	2.4
3	.0	.0	.1	1.6	1.2	*	63	.0	3.0
2	.0	.0	.3	3.6	1.0	.0	101	.0	4.8
1	.0	.0	.8	5.5	1.1	.0	154	.0	7.4
0	*	*	3.9	10.9	.6	.0	324	.0	15.5
-1	.0	*	5.6	9.8	.3	.0	330	.0	15.8
-2	.0	*	6.7	8.6	.1	*	325	.0	15.5
-3	.0	.2	6.3	5.3	.1	.0	251	*	12.0
-4	.1	.4	6.3	2.7	.0	.0	201	.0	9.6
-5	.0	.3	3.2	1.0	.0	.0	94	.0	4.5
-6	.0	.6	1.8	.3	.0	.0	57	.0	2.7
-7/-8	*	.8	1.2	.2	.0	.0	47	.0	2.2
-9/-10	.2	.4	.2	.1	.0	.0	21	.0	1.0
-11/-13	*	.0	*	*	.0	.0	3	.0	.1
TOTAL	10	61	766	1073	165	17	2092	1	2091
PCT	.5	2.9	36.6	51.3	7.9	.8	100.0	*100.0	

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

AUGUST

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	.2	.7	.0	.0	.0	.0	5	.4	.4	.0	.0	.0	.0	4
1-2	.0	.4	.2	.0	.0	.0	3	.4	.9	.2	.0	.0	.0	8
3-4	.0	.5	.2	.0	.0	.0	4	.0	1.2	.7	.0	.0	.0	11
5-6	.0	.0	.5	.0	.0	.0	3	.0	.0	.0	.0	.0	.0	0
7	.0	.0	.2	.0	.0	.0	1	.0	.0	.2	.0	.0	.0	1
8-9	.0	.2	.0	.0	.0	.0	1	.0	.0	.2	.0	.0	.0	1
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.2	.0	.0	1
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	10	6	0	0	0	17	4	14	7	1	0	0	26
PCT	.2	1.8	1.1	.0	.0	.0	3.0	.7	2.5	1.2	.2	.0	.0	4.6

HGT	E							SE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	.7	2.3	.0	.0	.0	.0	17	.7	2.1	.4	.0	.0	.0	18
1-2	.9	6.7	.4	.0	.0	.0	45	1.2	5.7	1.6	.2	.0	.0	49
3-4	.0	1.8	1.4	.0	.0	.0	18	.2	2.5	2.5	.2	.0	.0	30
5-6	.0	.2	.7	.0	.0	.0	5	.0	.4	1.1	.0	.0	.0	8
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.2	.0	.0	1
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.2	.0	.0	1	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	9	62	14	1	0	0	86	12	60	31	3	0	0	106
PCT	1.6	11.0	2.5	.2	.0	.0	15.3	2.1	10.7	5.5	.5	.0	.0	18.8

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

AUGUST  
TABLE 18

AREA 002 BERMUDA  
30-34N 63-67W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.5	2.1	.0	.0	.0	.0	15	1.1	2.1	.0	.0	.0	.0	18	84	
1-2	.0	5.0	.5	.0	.0	.0	31	.4	4.4	2.1	.0	.0	.0	39	195	
3-4	.0	3.4	4.4	.7	.0	.0	48	.2	6.0	4.3	.2	.0	.0	60	190	
5-6	.0	.7	2.1	.4	.0	.0	18	.0	1.1	3.6	.0	.0	.0	26	70	
7	.0	.0	.7	.0	.0	.0	4	.0	.4	.5	.2	.0	.0	6	16	
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	3	
10-11	.0	.0	.0	.2	.0	.0	1	.0	.0	.2	.0	.0	.0	1	5	
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
TOTAL	3	63	44	7	0	0	117	9	79	60	2	0	0	150	563	
PCT	.5	11.2	7.8	1.2	.0	.0	20.8	1.6	14.0	10.7	.4	.0	.0	26.6	100.0	

HGT	W							NW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.0	.9	.0	.0	.0	.0	5	.2	.2	.0	.0	.0	.0	2	84	
1-2	.4	2.1	.5	.0	.0	.0	17	.0	.5	.0	.0	.0	.0	3	195	
3-4	.0	1.2	1.6	.2	.0	.0	17	.0	.2	.2	.0	.0	.0	2	190	
5-6	.0	.0	1.4	.0	.0	.0	8	.0	.2	.2	.0	.0	.0	2	70	
7	.0	.0	.2	.4	.0	.0	3	.0	.0	.0	.0	.0	.0	0	16	
8-9	.0	.0	.2	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0	3	
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.0	.0	.0	1	5	
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
TOTAL	2	24	22	3	0	0	51	1	6	3	0	0	0	10	563	
PCT	.4	4.3	3.9	.5	.0	.0	9.1	.2	1.1	.5	.0	.0	.0	1.8	100.0	

AUGUST

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

TABLE 18 (CONT)

AREA 002 BERMUDA  
30-34N 63-67W

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	8.2	10.4	.3	.0	.0	.0	113
1-2	3.0	25.0	5.2	.2	.0	.0	199
3-4	.3	15.9	14.4	1.2	.0	.0	190
5-6	.0	2.3	9.1	.3	.0	.0	70
7	.0	.3	1.7	.7	.0	.0	16
8-9	.0	.2	.3	.0	.0	.0	3
10-11	.0	.0	.3	.5	.0	.0	5
12	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	69	323	187	17	0	0	596
PCT	11.6	54.2	31.4	2.9	.0	.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	5.9	20.1	20.1	5.0	1.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	339	2
6-7	.0	3.1	10.5	8.1	2.7	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	162	4
8-9	.0	1.4	2.2	2.8	1.1	.9	.6	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	5
10-11	.0	.0	.3	1.1	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	5
12-13	.2	.0	.0	.2	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
>13	.2	.2	.0	.2	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
INDET	5.6	1.9	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	0
TOTAL	76	171	221	112	33	15	9	3	0	1	0	0	0	0	0	0	0	0	0	0	641	3
PCT	11.9	26.7	34.5	17.5	5.1	2.3	1.4	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1876-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FGG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
N	.2	*	*	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	4	112	.3
NNE	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	115	.3
NE	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	2	155	.2
ENE	.2	.1	.1	.0	.0	.0	.0	*	.0	.1	.0	.0	.0	3	159	.4
E	.3	.2	.1	.0	.0	.0	.0	.2	*	*	.0	.0	.0	7	270	.6
ESE	.3	.3	*	.0	.0	.0	.0	.2	.0	*	.0	.0	.0	6	152	.6
SE	.2	.3	.1	.0	.0	.0	.0	.2	.0	*	.0	.0	.0	5	203	.6
SSE	.1	.1	*	.0	.0	.0	.0	.2	.0	*	.0	.0	.0	5	133	.3
S	.6	.4	.1	.0	.0	.0	.0	.3	.0	.2	.0	.0	.0	11	264	1.1
SSW	.2	*	.1	.0	.0	.0	.0	.2	.0	.1	*	.0	.0	8	154	.3
SW	.3	.3	.1	.0	.0	.0	.0	.4	.0	.1	*	.0	.0	13	219	.7
WSW	.1	.1	.1	.0	.0	.0	.0	.1	.0	*	*	.0	.0	5	94	.3
W	.2	.3	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	1	119	.5
WNW	.1	*	*	.0	.0	.0	.0	.0	.0	*	*	.0	.0	1	67	.2
NW	.1	*	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	1	61	.1
NNW	*	.1	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	2	43	.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	4	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.1	.0	.2	.0	.0	.0	6	68	.0
TOT	.74	.57	.23	.0	.0	.0	.0	.52	.1	.24	.3	.0	.0	80	2392	.0
PCT	3.1	2.4	1.0	.0	.0	.0	.0	6.4	2.2	*	1.0	.1	3.3	100.0	6.4	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FGG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
00003	.7	.6	.3	.0	.0	.0	.0	.39	.9	*	.3	.1	.1	31	669	1.6
06009	.6	.5	.2	.0	.0	.0	.0	.32	1.1	.0	.2	*	.0	33	625	1.3
12015	1.4	.9	.2	.0	.0	.0	.0	.59	.2	.0	.2	.0	.0	8	589	2.4
18021	.4	.5	.2	.0	.0	.0	.0	.28	.0	.0	.3	.0	.0	8	555	1.1
TOT	.74	.61	.23	.0	.0	.0	.0	.158	.52	.1	.24	.3	.0	80	2438	.0
PCT	3.0	2.5	.9	.0	.0	.0	.0	6.5	2.1	*	1.0	.1	3.3	100.0	6.5	



SEPTEMBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1876-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.6	2.1	1.4	.3	.1	.0	133	4.4	11.3	4.8	6.3	3.1	.0	4.6	.0	5.4	3.3
NNE	.2	2.4	1.6	.5	*	.0	141	4.7	11.9	4.5	6.3	4.8	6.7	4.5	.0	5.4	.0
NE	.6	3.1	2.6	.6	.0	.0	204	6.8	11.5	7.9	.0	5.6	3.3	6.4	4.2	7.3	10.0
ENE	.3	2.8	3.0	.5	.0	*	201	6.7	12.7	5.6	12.5	7.2	6.7	6.2	8.3	8.0	10.0
E	1.0	5.1	3.9	.7	.2	*	324	10.8	11.8	11.6	15.6	10.2	6.7	10.9	12.5	9.9	6.7
ESE	.5	3.1	2.3	.5	.1	.0	193	6.4	11.6	5.4	9.4	7.7	3.3	6.8	20.8	5.2	10.0
SE	1.0	4.0	2.3	.6	.2	.1	243	8.1	11.4	8.3	9.4	7.9	6.7	6.9	.0	10.4	.0
SSE	.4	2.2	1.8	.5	.2	*	155	5.2	13.1	4.3	9.4	7.1	10.0	4.6	.0	5.0	3.3
S	1.1	4.9	3.6	.8	.3	.1	321	10.7	12.2	8.4	3.1	12.8	10.0	11.3	8.3	11.6	13.3
SSW	.5	2.4	2.6	.5	.1	.0	183	6.1	12.6	6.2	6.3	6.1	3.3	5.5	8.3	6.9	6.7
SW	.8	4.3	3.0	.4	.1	*	262	8.7	11.3	9.1	3.1	8.7	3.3	9.5	8.3	7.5	10.0
WSW	.5	2.0	1.4	.1	.1	.1	128	4.3	11.4	4.3	3.1	3.9	10.0	4.6	4.2	3.2	13.3
W	.9	2.7	1.8	.2	.1	*	173	5.7	10.1	6.0	6.3	4.4	3.3	6.7	16.7	4.9	6.7
WNW	.2	1.3	1.0	.3	*	.0	85	2.8	12.5	3.5	.0	2.5	6.7	2.8	.0	2.4	.0
NW	.4	1.5	1.0	.1	*	.0	90	3.0	9.9	3.7	3.1	2.1	3.3	3.2	.0	2.6	3.3
NNW	.1	.7	.9	.1	.1	.0	59	2.0	12.7	1.7	.0	1.6	6.7	2.2	4.2	2.2	.0
VAR	.1	.0	.0	.0	.0	.0	4	.1	2.0	.0	.0	.2	.0	.0	.0	.4	3.3
CALM	3.7						110	3.7	.0	4.8	6.3	3.9	10.0	3.3	4.2	1.7	.0
TOT	384	1332	1031	201	50	11	3009	100.0	11.3	926	32	608	30	823	24	536	30
PCT	12.8	44.3	34.3	6.7	1.7	.4	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	2.7	4.5	1.6	.2	.1	274	9.1	11.6	9.3	12.5	7.9	6.7	9.1	.0	10.8	3.3
NE	3.1	7.2	3.0	.2	*	405	13.5	12.1	13.5	12.5	12.8	10.0	12.6	12.5	15.3	20.0
E	4.9	9.0	2.6	.6	.1	517	17.2	11.8	17.0	25.0	17.9	10.0	17.7	33.3	15.1	16.7
SE	4.0	6.5	1.8	.8	.1	398	13.2	12.1	12.6	18.8	15.0	16.7	11.5	.0	15.5	3.3
S	5.1	7.8	2.9	.8	.2	504	16.7	12.3	14.6	9.4	18.9	13.3	16.8	16.7	18.5	20.0
SSW	4.0	6.1	2.5	.2	.1	390	13.0	11.3	13.4	6.3	12.7	13.3	14.1	12.5	10.6	23.3
SW	2.8	4.3	1.0	.4	*	258	8.6	10.9	9.5	6.3	6.9	10.0	9.5	16.7	7.3	6.7
NW	1.7	2.5	.6	.2	.0	149	5.0	11.0	5.4	3.1	3.8	10.0	5.3	4.2	4.9	3.3
VAR	.1	.0	.0	.0	.0	4	.1	2.0	.0	.0	.2	.0	.0	.0	.4	3.3
CALM	3.7					110	3.7	.0	4.8	6.3	3.9	10.0	3.3	4.2	1.7	.0
TOT	961	1442	480	102	24	3009	100.0	11.3	926	32	608	30	823	24	536	30
PCT	31.9	47.9	16.0	3.4	.8	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1876-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	3.2	14.9	10.2	1.5	.4	.1	.0	1.5	10.3	31.8	958
06&09	1.6	9.6	7.4	1.3	.4	.1	*	.9	11.3	21.2	638
12&15	3.2	12.2	8.9	2.2	.6	.1	.0	.9	11.4	28.1	847
18&21	1.0	7.5	7.7	1.8	.3	.1	.1	.3	13.0	18.8	566
TOT	270	1332	1031	201	50	11	4	110	11.3		3009
PCT	9.0	44.3	34.3	6.7	1.7	.4	.1	3.7		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION					TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD	8 & OBS		
N	1.5	1.4	1.0	.6	96	3.9	
NNE	1.5	1.3	1.6	.8	107	4.3	
NE	1.6	1.9	2.1	.7	135	4.4	
ENE	2.4	1.9	2.2	.8	153	4.1	
E	3.4	3.1	3.1	1.8	242	4.3	
ESE	1.6	1.7	1.9	1.1	134	4.6	
SE	2.8	2.1	2.4	1.3	182	4.2	
SSE	1.7	1.4	1.6	.9	119	4.4	
S	2.8	3.0	3.8	1.6	236	4.5	
SSW	1.7	1.8	1.9	.8	130	4.2	
SW	2.6	2.3	2.0	1.5	178	4.2	
WSW	.8	.8	1.4	.6	76	4.6	
W	1.7	1.5	1.7	.5	115	4.2	
WNW	.7	.7	1.1	.1	54	4.1	
NW	1.1	.8	.6	.2	60	3.3	
NNW	.6	.5	.7	.1	40	4.2	
VAR	*	*	.1	.0	4	3.8	
CALM	1.4	.8	.8	.1	65	3.2	
TOT	633	573	636	284	2126	4.2	
PCT	29.8	27.0	29.9	13.4	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION															NH <5/8 ANY HGT	TOTAL OBS
000	150	300	600	1000	2000	3500	5000	6500	8000+							
149	299	599	999	1999	3499	4999	6499	7999								
.0	*	.1	.2	.5	.2	.0	*	.0	*	3.4	96					
.0	.0	.1	.4	.8	.3	*	*	.0	.0	3.4	107					
.0	*	.0	.2	.7	.4	.2	*	.0	*	4.8	135					
.0	.0	.0	.5	.7	.2	.1	*	.1	*	5.5	153					
*	.0	.2	1.1	.6	.5	.1	*	*	.0	8.7	242					
.0	.0	*	.3	.8	.5	.1	.0	*	.0	4.4	134					
.1	.0	.2	.6	.9	.4	.1	.1	*	.0	6.1	182					
.0	*	.2	.3	.4	.5	.1	.0	*	*	4.0	119					
*	*	.2	.5	1.3	.7	.2	.1	*	.0	7.9	236					
.0	.0	.1	.3	.6	.1	.1	*	.0	.0	4.8	130					
.1	.0	*	.5	.6	.5	.1	.1	*	.0	6.4	178					
.0	.0	*	.2	.3	.3	*	*	.0	.0	2.7	76					
.0	.0	.0	.2	.6	.5	.0	*	.0	.0	4.1	115					
.0	.0	*	.2	.3	.1	*	.0	.0	.0	1.8	54					
.0	.0	.0	*	.2	.3	.0	*	.0	.0	2.3	60					
.0	*	*	.0	.3	.1	.0	.0	.0	.0	1.4	40					
.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	4					
.0	.0	.0	*	.2	.1	*	.0	.0	.0	2.6	65					
6	5	29	120	204	121	31	15	8	5	1582	2126					
.3	.2	1.4	5.6	9.6	5.7	1.5	.7	.4	.2	74.4	100.0					

SEPTEMBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1876-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	.6	.6	.6	.6	.6	.6	.6
= OR >5000	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >3500	2.6	2.7	2.7	2.8	2.8	2.8	2.8
= OR >2000	6.9	8.1	8.4	8.5	8.5	8.5	8.5
= OR >1000	13.4	17.1	17.8	18.0	18.0	18.0	18.0
= OR >600	17.0	22.4	23.3	23.6	23.6	23.7	23.7
= OR >300	17.5	23.6	24.7	24.9	25.0	25.0	25.0
= OR >150	17.6	23.8	24.9	25.2	25.2	25.3	25.3
= OR > 0	17.6	23.8	25.0	25.4	25.4	25.5	25.5
TOTAL	374	507	531	540	541	543	543

TOTAL NUMBER OF OBS: 2126

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.1	14.7	25.1	17.2	10.2	6.9	7.7	4.2	6.7	.3	2313

SEPTEMBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1876-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	3	.1
	TOTAL	0	0	0	1	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	4	.2
1/2<1	PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	*
1<2	PCP	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	*	.0	.0	.0	5	.2
	NO PCP	.0	.0	.0	.0	*	*	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.2
	TOTAL	0	0	1	0	2	1	1	0	2	0	2	0	0	0	0	1	0	0	0	10	.5
2<5	PCP	*	*	.0	*	*	.1	.1	.1	.0	.1	*	*	.0	.0	.0	.0	.0	.0	.0	15	.7
	NO PCP	.1	.0	*	.0	.1	*	.0	.0	*	.2	.1	*	.0	.0	.0	*	.0	.1	.1	18	.9
	TOTAL	3	1	1	1	3	3	3	2	1	6	3	2	0	0	0	1	0	3	3	33	1.6
5<10	PCP	*	*	.0	.1	.2	.1	.2	*	.3	.1	.1	.0	.3	.1	.1	.1	.0	.0	.0	43	2.1
	NO PCP	.3	.5	.3	.5	.9	.5	.8	.7	1.3	.8	.7	.1	.5	.3	.2	.1	*	.2	.2	187	9.0
	TOTAL	8	11	6	13	24	14	21	16	34	20	18	3	16	9	6	5	1	5	5	230	11.1
10&>	PCP	.0	.0	*	.2	*	.1	.1	*	.3	.0	.2	.1	.1	*	*	.0	.0	.0	.0	30	1.4
	NO PCP	3.9	4.5	6.1	6.0	10.2	5.1	7.3	4.7	8.8	4.9	7.1	3.1	4.6	2.1	2.5	1.6	.1	2.6	2.6	1769	85.2
	TOTAL	82	93	127	129	212	109	154	98	190	102	152	67	98	45	52	33	3	53	53	1799	86.6
TOTAL	93	105	135	144	241	127	180	116	229	128	176	72	114	54	58	40	4	61	61	2077	100.0	
PCT	4.5	5.1	6.5	6.9	11.6	6.1	8.7	5.6	11.0	6.2	8.5	3.5	5.5	2.6	2.8	1.9	.2	2.9	2.9	100.0		

SEPTEMBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1876-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
<1/2	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	3	.1	
	22<	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	TOTAL	0	0	0	1	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	4	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	22<	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*	
	TOTAL	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	*
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*	
	11-21	.0	.0	*	.0	.0	*	*	.0	.0	*	.0	.0	.0	.0	.0	*	.0	.0	4	.2	
	22<	.0	.0	.0	.0	.1	.0	.0	.0	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	5	.2	
	TOTAL	0	0	1	0	2	1	1	0	2	2	2	0	0	0	0	1	0	0	0	10	.5
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	3	.1
	4-10	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	3	.1	
	11-21	*	*	*	.0	*	.1	.0	.1	*	.1	.1	.0	.0	.0	.0	.0	.0	.0	14	.7	
	22<	.1	.0	.0	*	.1	*	.1	.0	.0	.1	*	.0	.0	.0	.0	*	.0	.0	14	.7	
	TOTAL	4	1	1	1	3	3	3	2	1	6	3	2	0	0	0	1	0	0	3	34	1.6
5<10	0-3	.0	.0	*	.0	.0	.0	.0	.0	*	.0	*	.0	*	.0	*	.0	*	.0	.3	12	.6
	4-10	.1	.3	.0	.2	.1	.0	*	.1	.7	.2	.3	.0	.2	.2	*	.0	.0	.0	53	2.5	
	11-21	.2	.1	.2	.4	.6	.5	.7	.1	.6	.6	.4	.2	.4	.1	.1	.2	.0	.0	120	5.6	
	22<	*	.1	.0	*	.4	.2	.3	.5	.4	.1	*	.0	.1	.1	*	*	.0	.0	52	2.4	
	TOTAL	8	12	6	14	24	14	21	16	36	20	18	4	17	9	6	5	1	6	237	11.1	
10<	0-3	.5	.1	.4	.3	.8	.4	.8	.2	.8	.4	.4	.2	.7	.1	.2	*	.1	2.7	196	9.2	
	4-10	1.6	2.0	2.1	1.6	3.2	2.2	2.8	1.5	2.7	1.5	2.4	1.1	1.4	.5	.8	.4	.0	591	27.8		
	11-21	1.6	1.7	3.1	4.1	5.7	2.5	3.0	2.7	4.9	2.8	4.0	1.8	2.4	1.1	1.3	.9	.0	928	43.7		
	22<	.2	.5	.4	.4	.4	.3	.7	.4	.8	.2	.3	.1	.2	.3	.2	.2	.0	.0	125	5.9	
	TOTAL	84	93	127	137	214	115	156	101	195	104	154	70	98	45	54	33	3	57	1840	86.5	
TOTAL PCT	96	106	135	153	243	133	182	119	236	130	178	76	115	54	60	40	4	66	2126	100.0		
		4.5	5.0	6.3	7.2	11.4	6.3	8.6	5.6	11.1	6.1	8.4	3.6	5.4	2.5	2.8	1.9	.2	3.1	100.0		

SEPTEMBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1876-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HOOR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.1	.1	.4	1.2	2.5	1.2	.5	*	.1	*	138	20.1	593
06009	*	*	.3	1.2	2.4	1.1	.3	.2	*	*	128	20.4	589
12015	*	.0	.4	1.5	2.0	1.8	.4	.3	.1	.0	149	17.3	540
18021	.1	.1	.3	1.4	2.1	1.2	.2	.2	.1	.1	131	18.2	542
TOT	6	5	29	120	205	122	31	15	8	5	346	1718	2264
PCT	.3	.2	1.3	5.3	9.1	5.4	1.4	.7	.4	.2	24.1	75.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOOR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	*	*	.1	.7	2.8	22.2	554
06009	.1	.0	*	.3	3.4	22.3	560
12015	.0	.0	.2	.3	2.6	21.0	515
18021	*	.0	.1	.4	2.4	21.2	518
TOT	4	1	10	34	238	1860	2147
PCT	.2	*	.5	1.6	11.1	86.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HOOR (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ <OR5+	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.2	6.1	19.4	554
06009	.0	.0	*	5.9	20.1	560
12015	.0	.0	.2	6.8	17.0	515
18021	.0	*	.3	5.8	18.0	518
TOT	0	1	16	528	1802	2147
PCT	.0	*	.7	24.6	74.6	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1876-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
95/99	.0	.0	.0	.0	*	.0	.0	.0	1	*
90/94	.0	.0	.0	*	.2	*	.0	.0	7	.3
85/89	.0	.0	.0	.2	1.4	1.7	.7	.2	103	4.3
80/84	.0	.0	.0	.7	4.6	19.1	17.9	5.2	1142	47.5
75/79	.0	.0	.1	1.8	4.9	12.2	15.2	9.7	1053	43.8
70/74	.0	.0	.0	.5	.7	.5	.7	1.6	94	3.9
65/69	.0	.0	.0	.0	.0	.1	*	.0	3	.1
TOTAL	0	0	2	79	285	808	830	399	2403	100.0
PCT	.0	.0	.1	3.3	11.9	33.6	34.5	16.6		

TABLE 14

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	*	.0	.0	.0	.0	.0	.0	.0	.0
.0	*	*	.2	.0	.0	*	.0	.0	.0
.4	.4	1.0	.5	.9	.5	.4	*	.0	.2
2.9	3.7	7.2	8.2	10.0	7.9	3.9	1.6	.1	2.0
5.0	8.1	8.7	4.3	5.9	4.5	3.5	2.5	*	1.2
.8	1.0	.6	.4	.3	.4	.1	.2	.0	.0
*	.1	.0	.0	.0	.0	.0	.0	.0	.0
220	320	423	326	412	319	190	107	4	82
9.2	13.3	17.6	13.6	17.1	13.3	7.9	4.5	.2	3.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
0000	88	87	85	80	75	72	68	79.3	966
0600	87	83	82	79	74	71	65	78.4	633
1200	88	88	85	80	74	71	66	79.2	849
1800	95	92	88	82	76	73	71	81.5	563
TOT	95	87	84	79	74	71	65	79.5	3011

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
0000	.0	.6	3.6	9.8	10.4	9.3	80	726		
0600	.0	.7	1.8	7.3	9.1	3.7	81	552		
1200	.0	.7	2.4	8.8	10.4	5.5	81	676		
1800	.0	1.4	4.0	7.8	4.7	2.2	76	495		
TOT	0	82	287	827	848	405	80	2449		

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1876-1967

SEPTEMBER

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	93 96	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	*	.1	.0	*	4	.0	.2
9/10	.0	.0	.0	*	.1	.2	.2	*	12	.0	.6
7/8	.0	.0	.0	.1	.1	.7	.1	.0	22	.0	1.0
6	.0	.0	.0	.0	*	.6	*	.0	14	.0	.7
5	.0	.0	.1	.1	.2	.8	.0	.0	26	.0	1.2
4	.0	.0	.0	*	.8	.9	*	.0	40	.0	1.9
3	.0	.0	.1	.3	.9	.9	.0	.0	47	.0	2.2
2	.0	.0	.1	1.1	2.9	.4	.0	.0	94	.0	4.4
1	.0	.0	*	2.6	4.0	.2	.0	.0	148	.0	7.0
0	.0	.0	.2	5.6	6.2	.1	.0	.0	256	.0	12.1
-1	.0	.0	.4	7.5	4.8	.1	.0	.0	275	.0	12.9
-2	*	.0	.8	11.1	3.8	.1	.0	.0	336	*	15.8
-3	*	*	1.2	7.9	2.1	.0	.0	.0	240	.0	11.3
-4	*	.1	1.7	7.7	1.5	.0	.0	.0	236	.0	11.1
-5	.0	*	1.7	5.6	.5	.0	.0	.0	168	.0	7.9
-6	.0	.3	1.9	2.0	.1	.0	.0	.0	93	.0	4.4
-7/-8	.0	.2	2.3	1.2	.1	.0	.0	.0	81	.0	3.8
-9/-10	.0	.2	.8	.1	.0	.0	.0	.0	24	.0	1.1
-11/-13	.0	.1	.2	*	.0	.0	.0	.0	8	.0	.4
TOTAL	3	24	245	1129	605	107	9	2	2124	1	2123
PCT	.1	1.1	11.5	53.2	28.5	5.0	.4	.1	100.0	*100.0	



PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

SEPTEMBER

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE					TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	1-3	4-10	11-21	22-33	34-37	48+	
<1	.1	.7	.0	.0	.0	.0	.9	.4	.1	.0	.0	.0	10
1-2	.0	1.8	.6	.0	.0	.0	.1	2.2	.7	.0	.0	.0	21
3-4	.0	.9	1.6	.0	.0	.0	.0	1.2	3.4	.3	.0	.0	33
5-6	.0	.3	2.1	.3	.0	.0	.0	.0	1.8	.0	.0	.0	12
7	.0	.0	.1	.0	.0	.0	.0	.0	.9	.3	.0	.0	8
8-9	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1	.0	.0	2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	1
12	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.1	1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.4	.0	.0	.0	.1	.0	.0	.0	1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	25	30	5	3	0	64	7	26	50	5	1	89
PCT	.1	3.7	4.5	.7	.4	.0	9.6	1.0	3.9	7.5	.7	.1	13.3

HGT	E						SE					TOTAL	
	1-3	4-10	11-21	22-33	34-37	48+	1-3	4-10	11-21	22-33	34-37		48+
<1	.1	.1	.1	.0	.0	.0	.1	.9	.0	.0	.0	.0	7
1-2	.0	2.1	2.8	.0	.0	.0	.3	1.0	1.0	.0	.0	.0	16
3-4	.0	4.2	4.5	.1	.0	.0	.0	2.5	2.5	.3	.0	.0	36
5-6	.0	.7	1.5	.4	.0	.0	.0	.0	.7	.0	.0	.0	5
7	.0	.1	.3	.1	.0	.0	.0	.1	.6	.4	.0	.0	8
8-9	.0	.0	.6	.4	.1	.0	.0	.1	.1	.3	.1	.0	5
10-11	.0	.0	.0	.1	.3	.0	.0	.0	.0	.3	.1	.0	3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	3
13-16	.0	.0	.0	.0	.1	.0	.0	.0	.0	.6	.3	.3	8
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	49	66	10	5	0	131	3	32	34	16	4	91
PCT	.1	7.3	9.9	1.5	.7	.0	19.6	.4	4.8	5.1	2.4	.6	13.6

PERIOD: (PRIMARY)  
(OVR-ALL) 1963-1967

SEPTEMBER

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	<sup>S</sup>						TOTAL	<sup>SW</sup>						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.0	.7	.0	.0	.0	.0	5	.3	.9	.0	.0	.0	.0	8
1-2	.1	3.0	1.0	.0	.0	.0	28	.0	2.2	1.2	.1	.0	.0	24
3-4	.0	3.0	3.9	.4	.0	.0	49	.0	1.0	2.4	.1	.0	.0	24
5-6	.0	.9	3.3	.4	.0	.0	31	.0	.3	.6	.0	.0	.0	6
7	.0	.0	.6	.3	.0	.0	6	.0	.0	1.3	.0	.0	.0	9
8-9	.0	.0	.3	.1	.6	.0	7	.0	.0	.1	.1	.0	.0	2
10-11	.0	.0	.0	.0	.1	.0	1	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.1	.1	.1	3	.0	.0	.0	.0	.3	.4	5
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.1	.0	1	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.1	.0	1	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.1	.0	1
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	.1	51	61	10	8	1	132	.2	30	38	3	3	3	79
PCT	.1	7.6	9.1	1.5	1.2	.1	19.8	.3	4.5	5.7	.4	.4	.4	11.8

HGT	<sup>W</sup>						TOTAL	<sup>NW</sup>						TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+		
<1	.1	.7	.0	.0	.0	.0	6	.0	.6	.0	.0	.0	.0	4	49
1-2	.1	1.2	.7	.0	.0	.0	14	.0	.6	.9	.0	.0	.0	10	162
3-4	.0	.3	1.0	.1	.0	.0	10	.0	.1	1.3	.0	.1	.0	11	239
5-6	.0	.0	.7	.3	.0	.0	7	.0	.3	.7	.0	.1	.0	8	105
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.6	.1	.0	.0	5	41
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	25
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.1	.0	.0	1	9
12	.0	.0	.1	.0	.3	.0	3	.0	.0	.0	.0	.0	.0	0	9
13-16	.0	.0	.0	.1	.0	.0	1	.0	.0	.0	.0	.0	.0	0	18
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	2
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.1	.0	1	7
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	1
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	.2	15	18	4	2	0	41	.0	11	24	2	3	0	40	667
PCT	.3	2.2	2.7	.6	.3	.0	6.1	.0	1.6	3.6	.3	.4	.0	6.0	100.0

SEPTEMBER

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)						TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+	
<1	3.7	5.1	.3	.0	.0	.0	62
1-2	.7	14.0	9.0	.1	.0	.0	162
3-4	.0	13.1	20.4	1.5	.1	.0	239
5-6	.0	2.5	11.3	1.5	.1	.0	105
7	.0	.3	4.4	1.3	.0	.0	41
8-9	.0	.1	1.3	1.3	.9	.0	25
10-11	.0	.0	.1	.6	.6	.0	9
12	.0	.0	.1	.7	.3	.1	9
13-16	.0	.0	.0	.9	.9	.9	18
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.3	.0	2
23-25	.0	.0	.1	.1	.7	.0	7
26-32	.0	.0	.0	.0	.1	.0	1
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	30	239	321	55	28	7	680
PCT	4.4	35.1	47.2	8.1	4.1	1.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	2.0	10.9	21.5	5.2	1.1	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	309	3
6-7	.1	2.6	6.2	7.7	2.7	1.6	.4	.1	.5	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	165	5
8-9	.0	.3	3.4	3.4	4.8	1.7	2.4	.7	1.3	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	137	7
10-11	.0	.0	.5	1.6	1.3	.7	.9	2.6	1.1	.1	.1	.4	.3	.0	.0	.0	.0	.0	.0	.0	72	10
12-13	.0	.0	.5	.1	.4	.1	.4	.3	.7	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	24	10
>13	.1	.0	.0	.1	.0	.1	.1	.0	.0	.0	.3	.1	.3	.0	.0	.0	.0	.0	.0	.0	9	15
INDET	1.9	.1	.8	.1	.3	.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	2
TOTAL	31	103	245	136	79	36	36	28	28	4	5	9	4	0	0	0	0	0	0	0	744	5
PCT	4.2	13.8	32.9	18.3	10.6	4.8	4.8	3.8	3.8	.5	.7	1.2	.5	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1943-1967  
(OVER-ALL) 1887-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW		
N	.2	.2	*	.0	.0	.0	.0	10	.0	.0	*	.0	1	173	.4
NNE	.1	.1	.1	.0	.0	.0	.0	7	.0	*	.0	.0	1	129	.3
NE	.6	.1	.2	.0	.0	.0	.0	22	*	*	.1	.0	4	224	.9
ENE	.2	.4	.1	.0	.0	.0	.0	18	.1	.0	.0	.0	3	175	.7
E	.6	.2	.2	.0	.0	.0	.0	24	*	.0	*	.0	2	216	.9
ESE	.3	.2	*	.0	.0	.0	.0	14	*	.0	.1	.0	3	110	.6
SE	.2	.3	.2	.0	.0	.0	.0	17	.2	*	.0	.0	5	168	.7
SSE	.1	.2	.1	.0	.0	.0	.0	11	.2	.1	.0	.0	8	137	.4
S	.6	.2	.2	.0	.0	.0	.0	24	.3	.0	.0	.0	7	261	.9
SSW	.2	.1	*	.0	.0	.0	.0	10	.4	.0	*	.0	10	163	.4
SW	.4	.2	.1	.0	.0	.0	*	17	.2	.0	.0	.0	4	192	.7
WSW	.1	.2	*	.0	.0	.0	.0	8	*	.0	*	.0	2	101	.3
W	.2	.1	.0	.0	.0	.0	.0	7	.2	.0	.1	*	7	129	.3
WNW	.1	*	.0	.0	.0	.0	.0	3	.0	.0	.1	.0	2	71	.1
NW	.2	.3	.0	.0	.0	.0	.0	11	.1	.0	*	.0	3	124	.4
NNW	*	.1	.0	.0	.0	.0	.0	3	.1	.0	*	.0	3	113	.1
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	1	.0
CALM	.0	.1	.0	.0	.0	.0	.0	2	.2	.0	.0	.0	5	43	.1
TOT	100	73	34	0	0	0	1	208	50	5	14	1	70	2530	
PCT	4.0	2.9	1.3	.0	.0	.0	*	8.2	2.0	.2	.6	*	2.8	100.0	8.2

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW		
00003	1.1	1.1	.8	.0	.0	.0	*	76	.8	.1	.1	*	27	760	3.0
06009	.7	.5	.2	.0	.0	.0	.0	36	1.1	.0	.1	.0	30	610	1.4
12015	1.3	.9	.2	.0	.0	.0	.0	62	.1	*	.2	.0	8	633	2.4
18021	.8	.4	.2	.0	.0	.0	.0	34	*	.1	.1	.0	6	548	1.3
TOT	100	73	34	0	0	0	1	208	51	5	14	1	71	2551	
PCT	3.9	2.9	1.3	.0	.0	.0	*	8.2	2.0	.2	.5	*	2.8	100.0	8.2

OCTOBER

PERIOD: (PRIMARY) 1943-1967  
(OVER-ALL) 1887-1967

TABLE 3

AREA 002 BERMUDA  
30-34N 63-67W

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.5	2.6	2.8	.9	.1	.0	223	6.9	13.5	7.2	.0	7.3	5.6	6.1	4.5	7.6	.0
NNE	.2	2.1	2.5	.6	*	*	173	5.3	13.5	5.7	4.8	4.4	.0	5.6	4.5	5.2	6.7
NE	.6	3.3	4.2	1.4	*	*	310	9.5	13.6	9.5	4.8	8.8	16.7	10.6	9.1	8.3	13.3
ENE	.2	2.5	3.0	.9	.1	.0	217	6.7	14.2	5.3	9.5	7.8	16.7	6.9	13.6	7.0	6.7
E	.8	3.2	4.1	.6	.1	.0	288	8.9	13.1	9.6	9.5	8.8	22.2	8.7	18.2	7.0	6.7
ESE	.3	1.8	2.0	.4	*	.0	147	4.5	12.7	4.8	.0	3.4	5.6	4.4	18.2	4.6	20.0
SE	.7	3.0	2.5	.4	.0	.0	216	6.6	10.9	8.0	4.8	5.8	5.6	5.9	.0	6.7	6.7
SSE	.2	2.2	2.4	.2	.0	.0	161	5.0	11.6	4.7	19.0	5.1	5.6	4.5	4.5	5.7	.0
S	.7	4.4	4.5	1.3	.1	.0	353	10.9	12.7	10.2	9.5	10.9	5.6	11.2	13.6	11.3	26.7
SSW	.2	1.9	2.7	.7	.0	.0	183	5.6	13.4	4.9	14.3	7.5	.0	5.4	.0	5.7	.0
SW	.6	3.0	3.5	.7	.1	.0	256	7.9	12.6	8.3	9.5	7.0	11.1	8.6	9.1	6.5	6.7
WSW	.2	1.6	1.8	.3	.0	.0	124	3.8	12.9	3.8	.0	4.2	.0	3.7	.0	4.1	.0
W	.6	2.4	2.1	.3	.1	.0	177	5.4	11.3	5.7	.0	4.2	.0	5.5	4.5	6.7	.0
WNW	.2	1.2	.9	.3	.0	.0	84	2.6	12.0	1.9	.0	3.6	5.6	2.8	.0	2.8	.0
NW	.2	2.2	1.9	.4	.0	.0	152	4.7	12.3	5.0	.0	4.9	.0	4.1	.0	5.6	.0
MNW	.2	1.3	1.9	.5	.1	.0	129	4.0	14.0	3.2	9.5	3.1	.0	5.1	.0	4.4	6.7
VAR	.0	*	.0	.0	.0	.0	1	*	5.0	.0	.0	.2	.0	.0	.0	.0	.0
CALM	1.7						55	1.7	.0	2.2	4.8	3.1	.0	.8	.0	.7	.0
TOT	257	1255	1390	321	20	6	3249	100.0	12.6	1067	21	589	18	977	22	540	15
PCT	7.9	38.6	42.8	9.9	.6	.2	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)								
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21	
N	2.3	6.1	3.3	.5	*	396	12.2	13.5	12.9	4.8	11.7	5.6	11.8	9.1	12.8	6.7	
NE	2.8	7.9	4.6	.8	*	527	16.2	13.9	14.8	14.3	16.6	33.3	17.5	22.7	15.4	20.0	
E	2.7	6.8	3.4	.2	.1	435	13.4	12.9	14.3	9.5	12.2	27.8	13.1	36.4	11.7	26.7	
SE	3.0	6.6	1.9	.1	.0	377	11.6	11.2	12.7	23.8	10.9	11.1	10.4	4.5	12.4	6.7	
S	3.2	8.6	4.4	.4	.0	536	16.5	12.9	15.1	23.8	18.3	5.6	16.6	13.6	17.0	26.7	
SW	2.3	6.5	2.6	.3	*	380	11.7	12.7	12.2	9.5	11.2	11.1	12.3	9.1	10.6	6.7	
W	1.9	4.4	1.6	.2	.0	261	8.0	11.5	7.6	.0	7.8	5.6	8.3	4.5	9.4	.0	
NW	1.5	4.5	2.4	.2	.0	281	8.6	13.0	8.2	9.5	8.0	.0	9.2	.0	10.0	6.7	
VAR	*	.0	.0	.0	.0	1	*	5.0	.0	.0	.2	.0	.0	.0	.0	.0	
CALM	1.7					55	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT	700	1667	787	88	7	3249	100.0	12.6	1067	21	589	18	977	22	540	15	
PCT	21.5	51.3	24.2	2.7	.2	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1943-1967  
(OVER-ALL) 1887-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
0000	2.5	13.1	13.5	3.4	.2	.1	.0	.8	12.3	33.5	1088
0600	.5	6.9	8.9	1.7	.1	.0	*	.6	12.9	18.7	607
1200	2.7	12.6	11.9	3.0	.3	*	.0	.2	12.1	30.7	999
1800	.6	6.0	8.5	1.7	.1	.1	.0	.1	13.8	17.1	555
TOT	202	1254	1390	321	20	6	1	55	12.6		3249
PCT	6.2	38.6	42.8	9.9	.6	.2	*	1.7	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WND DIR	BY WIND DIRECTION					TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD			
N	1.8	1.8	2.1	1.1	154	4.5	
NNE	.9	1.7	2.1	.8	119	4.8	
NE	2.0	2.6	2.5	1.8	199	4.6	
ENE	1.4	1.0	2.8	1.6	151	5.2	
E	1.8	2.1	2.4	2.0	183	4.8	
ESE	1.0	1.3	1.4	1.2	107	4.8	
SE	1.7	1.4	1.6	1.4	134	4.5	
SSE	1.1	1.6	1.9	1.0	124	4.9	
S	2.5	2.4	3.6	2.3	240	4.8	
SSW	1.7	1.6	1.9	1.1	141	4.5	
SW	1.9	1.8	2.2	1.1	156	4.4	
WSW	1.0	1.2	1.6	.9	103	4.8	
W	1.4	1.8	1.4	.6	114	4.1	
WNW	.7	.7	.7	.7	64	4.7	
NW	1.8	.9	1.3	.4	98	3.7	
NNW	1.4	1.4	1.3	.5	99	3.9	
VAR	.0	.0	*	.0	1	5.0	
CALM	.8	.3	.3	.1	35	3.0	
TOT	553	566	690	413	2222	4.6	
PCT	24.9	25.5	31.1	18.6	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION														NH <5/8 ANY HGT	TOTAL OBS
000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+						
*	*	.1	.5	.5	.6	*	*	.1	.0	4.9	154				
*	.0	*	.3	.8	.5	.3	.2	.0	.0	3.3	119				
.0	.0	.3	.6	1.0	.6	.4	*	.2	.0	5.8	199				
*	.0	.4	.4	.9	.5	.2	*	.1	.0	4.2	151				
*	*	.1	.4	.9	.9	.3	*	.1	.1	5.3	183				
*	.0	*	.3	.7	.4	*	.0	*	*	3.2	107				
.0	*	.1	.5	.7	.6	*	.1	.0	.0	4.0	134				
.0	.0	.1	.2	.5	.3	.2	.0	*	.1	4.1	124				
.0	.0	.3	.9	1.0	.7	.3	.1	.0	.0	7.5	240				
*	.0	.1	.4	.5	.5	*	.0	.0	.1	4.8	141				
.0	*	*	.5	.9	.4	*	*	.0	.0	5.1	156				
.0	.0	.1	.4	.6	.4	*	.0	*	.0	3.1	103				
.1	.0	.0	.2	.5	.4	.1	.0	.0	.0	3.9	114				
.0	*	*	.1	.4	.4	.1	.0	.0	*	1.7	64				
.0	.0	*	.1	.5	.4	*	.0	.0	.0	3.3	98				
.0	.0	.1	.2	.3	.3	.1	.0	.0	.0	3.5	99				
.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	1				
.0	.0	.0	*	.2	.1	*	.0	.0	.0	1.2	35				
.8	.5	.4	1.3	2.4	1.7	.5	.1	1.4	.9	15.9	2222				
.4	.2	2.0	6.0	10.9	7.8	2.3	.6	.6	.4	68.8	100.0				

OCTOBER

PERIOD: (PRIMARY) 1943-1967  
(OVER-ALL) 1887-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)						
	= DR >10	= DR >5	= DR >2	= DR >1	= DR >1/2	= DR >1/4	= DR >55YD
= DR >6500	.9	1.0	1.0	1.0	1.0	1.0	1.0
= DR >5000	1.4	1.7	1.7	1.7	1.7	1.7	1.7
= DR >3500	3.5	4.0	4.0	4.0	4.0	4.0	4.0
= DR >2000	9.2	11.5	11.6	11.6	11.7	11.7	11.7
= DR >1000	17.2	21.9	22.4	22.5	22.5	22.6	22.6
= DR >600	21.5	27.6	28.2	28.4	28.5	28.6	28.6
= DR >300	22.7	29.3	30.0	30.2	30.5	30.6	30.6
= DR >150	22.8	29.5	30.2	30.5	30.7	30.8	30.8
= DR > 0	23.0	29.7	30.4	30.8	31.1	31.1	31.2
TOTAL	510	659	675	684	689	691	692

TOTAL NUMBER OF OBS: 2219

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
8.2	12.1	21.8	15.6	10.8	7.8	8.1	5.7	9.5	.2	2404

OCTOBER

PERIOD: (PRIMARY) 1943-1967  
(OVER-ALL) 1887-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	NO PCP	.0	.0	.0	*	.0	*	*	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.0	5	.2
	TOTAL	0	0	0	1	0	1	1	0	0	0	0	0	0	1	1	0	0	0	5	.2
1/2<1	PCP	.0	.0	.0	*	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	3	.1
	NO PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	TOTAL	0	0	0	1	0	0	1	0	1	1	1	0	0	0	0	0	0	0	5	.2
1<2	PCP	*	.0	.0	*	*	*	*	.0	.1	.0	*	.0	*	.0	.0	.0	.0	.0	9	.4
	NO PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	2	.1
	TOTAL	1	0	0	1	2	1	1	0	2	0	1	0	1	0	0	1	0	0	11	.5
2<5	PCP	.0	*	*	.2	.0	.1	.0	.0	.1	*	.0	*	.0	*	.0	.0	.0	.0	13	.6
	NO PCP	.0	.0	.0	.0	.0	*	.1	.0	.0	*	.0	.0	*	*	.0	.0	.0	.0	6	.3
	TOTAL	0	1	1	4	0	3	2	0	2	2	0	1	1	2	0	0	0	0	19	.9
5<10	PCP	.1	.1	.2	.2	.3	.3	.1	.1	.5	*	.3	*	.1	.0	.1	.0	.0	*	57	2.8
	NO PCP	.5	.2	.9	.7	1.2	.4	.3	.1	1.4	.9	.9	.5	.5	.1	.3	.4	.0	.0	194	9.4
	TOTAL	12	7	24	19	31	14	9	6	38	19	25	12	13	2	8	8	0	4	251	12.2
10<20	PCP	.1	*	.3	*	.2	.1	.2	.2	.3	.3	.1	.1	.0	.0	.1	.0	.0	.0	46	2.2
	NO PCP	6.3	4.8	7.2	5.5	6.2	3.5	5.0	5.0	8.4	5.3	5.9	3.7	4.4	2.7	4.0	4.2	*	1.5	1728	83.7
	TOTAL	133	101	155	115	131	74	108	109	180	116	124	79	90	56	84	87	1	31	1774	85.9
TOTAL	146	109	180	141	164	93	122	115	223	138	151	92	105	61	93	96	1	35	2063	100.0	
PCT	7.1	5.3	8.7	6.8	7.9	4.5	5.9	5.6	10.8	6.7	7.3	4.5	5.1	3.0	4.5	4.6	*	1.7	100.0		



OCTOBER

PERIOD: (PRIMARY) 1943-1967  
(OVER-ALL) 1887-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSPY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	2	.1
	11-21	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	3	.1
	22<	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	1	0	1	1	0	0	0	0	0	0	0	1	1	0	0	5	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	11-21	.0	.0	.0	*	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	3	.1
	22<	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	0	0	0	1	0	0	1	0	1	1	1	0	0	0	0	0	0	0	5	.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	2	.1
	11-21	*	.0	.0	*	.0	*	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	5	.2
	22<	.0	.0	.0	.0	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	4	.2
	TOTAL	1	0	0	1	2	1	1	0	2	0	1	0	1	0	0	1	0	0	11	.5
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	1	*
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.1	*	.0	*	*	*	.0	.0	.0	.0	8	.4
	22<	.0	*	*	.2	.0	*	.1	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	10	.5
	TOTAL	0	1	1	4	0	3	2	0	2	2	0	1	1	2	0	0	0	0	19	.9
5<10	0-3	.0	.0	.0	*	.1	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	0	.5
	4-10	.1	.0	.4	*	.1	*	*	.0	.4	.1	.3	.2	.3	.0	.1	.1	.0	.0	48	2.2
	11-21	.4	.3	.4	.5	.9	.5	.5	.2	1.1	.5	.8	.5	.3	.1	.1	.3	.0	.0	159	7.2
	22<	.1	*	.4	.4	.4	.2	*	*	.3	.2	.1	.0	.0	.0	.1	.0	.0	.0	51	2.3
	TOTAL	13	7	26	22	31	16	12	6	40	19	26	14	14	2	8	8	0	4	268	12.1
10<	0-3	.4	.1	.3	*	.3	.1	.5	*	.1	.2	.1	.1	.1	.1	.2	.1	.0	1.4	95	4.3
	4-10	1.2	1.4	1.8	1.3	1.6	.9	1.8	1.9	2.3	1.8	1.5	1.1	1.4	1.0	1.4	.9	*	*	519	23.4
	11-21	3.7	3.0	4.9	3.6	4.3	2.5	2.8	3.1	5.2	2.8	3.6	2.3	2.5	1.1	2.2	2.4	.0	.0	1110	50.0
	22<	1.0	.5	.8	.6	.5	.3	.2	.3	1.2	.5	.6	.4	.3	.4	.2	.6	.0	.0	187	8.4
	TOTAL	140	111	171	122	148	86	117	118	195	119	128	88	98	59	89	90	1	31	1911	86.1
TOTAL PCT	154	119	198	151	181	107	134	124	240	141	156	103	114	64	98	99	1	35	2219	100.0	
		6.9	5.4	8.9	6.8	8.2	4.8	6.0	5.6	10.8	6.4	7.0	4.6	5.1	2.9	4.4	4.5	*	1.6	100.0	

OCTOBER

PERIOD: (PRIMARY) 1943-1967  
(OVER-ALL) 1887-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.2	*	.4	1.9	2.6	2.1	.6	.1	.1	.1	195	20.8	683
06009	.0	.1	.6	1.0	2.2	1.6	.6	.2	.1	.1	151	16.2	531
12015	.1	.1	.6	1.3	2.6	2.1	.5	.1	.2	.1	182	17.8	599
18021	*	.0	.3	1.4	2.8	1.6	.5	.3	.2	*	167	15.6	532
TOT	8	6	44	133	242	174	51	14	14	9	695	1650	2345
PCT	.3	.3	1.9	5.7	10.3	7.4	2.2	.6	.6	.4	29.6	70.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	*	.0	.1	.1	3.9	24.4	638
06009	.1	.0	.1	.0	2.6	19.8	506
12015	.0	.1	.2	.3	2.9	22.1	571
18021	*	.1	*	.4	2.7	19.8	515
TOT	5	5	12	19	269	1920	2230
PCT	.2	.2	.5	.9	12.1	86.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HR	<150	<600	1000	1000+	NH <5/8	TOTAL
(GMT)	<50YD	<1	<5	6OR5+	ANY HGT	OBS
00003	.0	.0	.2	8.5	19.9	638
06009	.0	*	.1	6.6	16.0	506
12015	.0	.1	.3	7.8	17.4	571
18021	.0	.0	.2	7.3	15.6	515
TOT	0	3	16	675	1536	2230
PCT	.0	.1	.7	30.3	68.9	100.0

OCTOBER

PERIOD: (PRIMARY) 1943-1967  
(OVER-ALL) 1887-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
90/94	.0	.0	.0	*	.0	.0	.0	.0	1	*
85/89	.0	.0	.0	*	.3	.2	*	.1	15	.6
80/84	.0	.0	.1	.2	1.7	4.7	4.2	1.3	317	12.2
75/79	.0	.0	.1	1.7	6.8	17.2	20.2	12.9	1528	59.0
70/74	.0	.0	.3	1.9	6.1	6.6	6.3	4.8	673	26.0
65/69	.0	.0	.0	.4	.8	.6	.3	*	54	2.1
60/64	.0	.0	.0	.0	.1	*	.0	*	4	.2
TOTAL	0	0	12	113	407	757	805	498	2592	100.0
PCT	.0	.0	.5	4.4	15.7	29.2	31.1	19.2		

TABLE 14

	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW				
90/94	.0	.0	.0	.0	.0	.0	.0	*	.0	.0		
85/89	.1	*	.1	.1	*	*	.1	*	.0	.0		
80/84	.3	1.0	1.3	2.5	3.1	1.9	1.0	.9	.0	.2		
75/79	5.3	7.9	8.6	8.4	11.9	7.1	4.2	4.2	*	1.3		
70/74	5.0	6.8	3.6	1.3	1.7	2.1	2.2	3.1	.0	.2		
65/69	.7	.3	.2	.1	*	.0	.3	.4	.0	.0		
60/64	.1	.0	.0	.0	.0	*	.0	.0	.0	.0		
TOTAL	299	418	355	322	434	288	207	224	1	44		
PCT	11.5	16.1	13.7	12.4	16.7	11.1	8.0	8.6	*	1.7		

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	82	80	75	70	67	64	75.8	1081
06&09	84	83	81	76	70	67	62	73.2	605
12&15	88	85	82	77	71	68	61	76.0	991
18&21	90	88	84	78	71	69	64	78.1	543
TOT	90	84	81	75	69	66	61	76.1	3220

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.0	4.3	9.8	10.6	7.0	80	856
06&09	.0	.8	3.3	5.1	7.0	3.7	79	518
12&15	.0	1.5	4.7	8.2	9.0	6.3	79	776
18&21	.0	1.5	3.3	6.2	4.4	2.1	76	461
TOT	0	126	408	764	812	501	79	2611

PERIOD: (PRIMARY) 1943-1967  
(OVER-ALL) 1887-1967

OCTOBER

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 74	77 80	81 84	85 88	89 92	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.1	*	3	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.1	*	3	.0	.1
7/8	.0	.0	.0	.1	.0	.0	.1	.0	5	.0	.2
6	.0	.0	.0	.2	.1	*	.1	.0	11	.0	.5
5	.0	.0	.0	*	.3	.3	.1	.0	16	.0	.7
4	.0	.0	.0	.0	.6	1.0	.0	.0	35	.0	1.6
3	.0	.0	*	*	1.3	.7	.1	.0	48	.0	2.2
2	.0	.0	*	.6	2.3	1.7	*	.0	101	.0	4.7
1	.0	.0	.0	.9	4.2	1.3	*	.0	140	.0	6.4
0	.0	.0	.0	3.9	6.8	1.4	.0	.0	261	.0	12.0
-1	.0	.0	.3	4.7	6.8	.7	.0	.0	272	.0	12.5
-2	.0	.0	.6	6.7	5.6	.6	.0	.0	295	.1	13.5
-3	.0	.0	.8	5.5	5.0	.2	.0	.0	249	.0	11.5
-4	.0	.0	1.2	5.9	2.9	.0	.0	.0	218	.0	10.0
-5	.0	.2	1.5	5.6	1.7	.0	.0	.0	196	.1	8.9
-6	.0	.0	1.7	3.4	.3	.0	.0	.0	117	.0	5.4
-7/-8	*	.2	2.9	2.4	.4	.0	.0	.0	129	.0	5.9
-9/-10	.0	.4	1.1	.7	*	.0	.0	.0	50	.0	2.3
-11/-13	*	.2	.3	.0	*	.0	.0	.0	14	.0	.6
-14/-16	.1	.2	*	.0	.0	.0	.0	.0	8	.0	.4
TOTAL	5	28	229	886	832	172	17	2	2171	4	2167
PCT	.2	1.3	10.5	40.8	38.3	7.9	.8	.1	100.0	.2	99.8

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

OCTOBER

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						TOTAL	NE					
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+
<1	.5	.6	.0	.0	.0	.0	7	.2	.8	.2	.0	.0	.0
1-2	.0	2.2	1.3	.0	.0	.0	22	.2	.9	2.2	.0	.0	.0
3-4	.0	1.6	3.0	.5	.0	.0	32	.2	2.0	2.8	.3	.0	.0
5-6	.0	.3	2.0	.5	.0	.0	18	.0	.5	3.5	.8	.0	.0
7	.0	.0	2.0	.9	.0	.0	19	.0	.0	1.7	.3	.0	.0
8-9	.0	.2	.6	.2	.0	.0	6	.0	.0	.6	.8	.0	.0
10-11	.0	.0	.2	.0	.0	.0	1	.0	.0	.0	.5	.0	.0
12	.0	.0	.0	.5	.0	.0	3	.0	.0	.2	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	2	.0	.0	.2	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0
TOTAL	3	31	58	18	0	0	110	3	27	72	17	0	119
PCT	.5	4.9	9.1	2.8	.0	.0	17.3	.5	4.2	11.3	2.7	.0	18.7

HGT	E					TOTAL	SE					
	1-3	4-10	11-21	22-33	34-37		48+	1-3	4-10	11-21	22-33	34-37
<1	.3	.6	.2	.0	.0	7	.0	.3	.0	.0	.0	.0
1-2	.2	2.8	1.4	.0	.0	28	.0	2.0	1.3	.0	.0	.0
3-4	.0	.6	3.0	.2	.0	24	.2	1.3	2.0	.0	.0	.0
5-6	.0	.5	1.6	.2	.0	14	.0	.3	2.4	.2	.0	.0
7	.0	.0	1.1	.0	.0	7	.0	.3	.3	.2	.0	.0
8-9	.0	.2	.2	.3	.0	4	.0	.0	.3	.2	.0	.0
10-11	.0	.0	.0	.0	.0	0	.0	.0	.2	.2	.0	.0
12	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0
TOTAL	3	30	47	4	0	84	1	27	41	5	0	74
PCT	.5	4.7	7.4	.6	.0	13.2	.2	4.2	6.4	.8	.0	11.6

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

OCTOBER

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						TOTAL	SW						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.2	.8	.2	.0	.0	.0	7	.0	.5	.2	.0	.0	.0	4
1-2	.0	2.7	2.4	.0	.0	.0	32	.0	.9	.6	.0	.0	.0	10
3-4	.0	1.4	2.7	.2	.0	.0	27	.0	1.4	2.4	.0	.0	.0	24
5-6	.0	.3	2.4	.5	.0	.0	20	.0	.3	1.3	.2	.0	.0	11
7	.0	.2	1.3	.6	.0	.0	13	.0	.2	.8	.2	.0	.0	7
8-9	.0	.2	.5	.5	.0	.0	7	.0	.0	.2	.0	.0	.0	1
10-11	.0	.0	.2	.3	.0	.0	3	.0	.0	.0	.5	.0	.0	3
12	.0	.0	.0	.2	.0	.0	1	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	35	60	14	.0	.0	110	0	21	34	5	.0	.0	60
PCT	.2	5.5	9.4	2.2	.0	.0	17.3	.0	3.3	5.3	.8	.0	.0	9.4

HGT	W						TOTAL	NW						TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+		
<1	.0	.6	.0	.0	.0	.0	4	.2	.5	.0	.0	.0	.0	4	42
1-2	.0	.9	.3	.0	.0	.0	8	.0	.6	.3	.0	.0	.0	6	148
3-4	.0	.3	.8	.0	.0	.0	7	.0	.8	1.1	.3	.0	.0	14	104
5-6	.0	.3	.8	.2	.0	.0	8	.0	.2	.5	.3	.0	.0	6	125
7	.0	.3	.6	.3	.0	.0	8	.0	.0	.2	.3	.0	.0	3	75
8-9	.0	.0	.3	.2	.0	.0	3	.0	.0	.2	.2	.0	.0	2	36
10-11	.0	.0	.2	.2	.0	.0	2	.0	.2	.0	.3	.0	.0	2	17
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	7
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	3
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	0	16	19	5	.0	.0	40	1	14	15	10	.0	.0	40	637
PCT	.0	2.5	3.0	.8	.0	.0	6.3	.2	2.2	2.4	1.6	.0	.0	6.3	100.0

OCTOBER

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)							
HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	1.9	4.7	.6	.0	.0	.0	46
1-2	.3	13.1	9.7	.0	.0	.0	148
3-4	.3	9.4	17.6	1.4	.0	.0	184
5-6	.0	2.7	14.2	2.7	.0	.0	125
7	.0	.9	8.0	2.8	.0	.0	75
8-9	.0	.5	2.8	2.3	.0	.0	36
10-11	.0	.2	.6	1.9	.0	.0	17
12	.0	.0	.3	.8	.0	.0	7
13-16	.0	.0	.2	.3	.0	.0	3
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	16	201	346	78	0	0	641
PCT	2.5	31.4	54.0	12.2	.0	.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.1	11.9	16.1	6.5	1.8	1.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	279	3
6-7	.1	.6	5.4	11.1	6.6	3.4	.9	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	197	5
8-9	.4	.1	2.9	4.4	3.5	2.1	1.2	.9	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	110	6
10-11	.0	.4	.9	.7	1.0	.9	.5	.3	.7	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	43	8
12-13	.0	.0	.1	.3	.6	.1	.1	.6	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	14	9
>13	.3	.1	.0	.3	.0	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
INDET	1.9	.4	1.0	.0	.7	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	2
TOTAL	40	93	181	159	97	51	26	17	11	4	2	1	0	0	0	0	0	0	0	682	4
PCT	5.9	13.6	26.5	23.3	14.2	7.5	3.8	2.5	1.6	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1886-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
N	.1	.2	.1	.0	.0	.0	.0	9	*	.0	.0	.0	1	197	.3	
NNE	.1	.2	*	.0	.0	.0	.0	9	*	.0	.0	.0	1	174	.3	
NE	.2	.2	*	.0	.0	.0	.0	9	*	.0	.0	.0	1	214	.3	
ENE	.2	.1	.1	.0	.0	.0	.0	9	.0	.0	.0	*	1	149	.3	
E	.2	.2	.1	.0	.0	.0	.0	13	.1	.0	.0	.0	3	218	.5	
ESE	.2	.2	.1	.0	.0	.0	.0	11	*	.0	.0	.0	1	125	.4	
SE	.2	.1	.2	.0	.0	.0	.0	12	.0	.0	*	.0	1	145	.5	
SSE	.2	.1	*	.0	.0	.0	.0	8	*	.0	*	.0	2	93	.3	
S	.3	.3	*	.0	.0	.0	.0	17	.2	.0	.0	.0	4	176	.6	
SSW	.2	.1	.2	.0	.0	.0	.0	11	.1	*	.0	.0	3	104	.4	
SW	.2	.2	.2	.0	.0	.0	.0	16	.1	*	*	.0	5	158	.6	
WSW	.3	*	*	.0	.0	.0	.0	11	.2	.0	.0	.0	5	106	.4	
W	.2	.5	*	.0	.0	.0	.0	21	.2	.0	.1	.0	6	205	.8	
WNW	.2	.1	*	.0	.0	.0	.0	9	*	.0	*	.0	2	153	.3	
NW	.1	.3	*	.0	.0	.0	.0	12	.2	*	*	.0	6	207	.5	
NNW	.1	.1	.1	.0	.0	.0	.0	7	.0	.0	.0	.0	0	152	.3	
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	5	.0	
CALM	.0	*	*	.0	.0	.0	.0	2	.0	.0	*	.0	1	48	.1	
TOT	77	76	33	0	0	0	0	186	31	3	8	1	43	2629		
PCT	2.9	2.9	1.3	.0	.0	.0	.0	7.1	1.2	.1	.3	*	1.6	100.0	7.1	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
0003	1.2	1.2	.4	.0	.0	.0	.0	72	.6	.0	.2	.0	19	768	2.7	
0609	.5	.5	.3	.0	.0	.0	.0	33	.5	*	.1	.0	16	635	1.2	
1215	.9	1.0	.5	.0	.0	.0	.0	63	.1	*	*	*	6	663	2.4	
1821	.4	.3	.1	.0	.0	.0	.0	20	.0	*	*	.0	2	581	.8	
TOT	79	76	33	0	0	0	0	186	31	3	8	1	43	2647		
PCT	3.0	2.9	1.2	.0	.0	.0	.0	7.1	1.2	.1	.3	*	1.6	100.0	7.1	



NOVEMBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1886-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.6	2.7	3.3	.9	.1	.0	257	7.6	13.1	8.2	6.8	7.3	2.3	8.4	7.9	5.5	15.0
NNE	.3	2.2	2.8	1.2	.2	.0	224	6.6	14.7	5.9	6.2	6.6	4.7	7.8	5.3	6.3	5.0
NE	.7	3.1	4.3	.8	*	.0	299	8.9	12.7	8.4	6.8	7.5	11.6	9.5	13.2	10.2	2.5
ENE	.3	1.5	3.3	.7	.0	.1	200	5.9	14.4	6.8	9.1	5.8	7.0	5.7	2.6	4.6	7.5
E	.6	3.3	3.2	1.0	*	.0	275	8.1	12.6	7.9	13.6	9.6	23.3	7.2	7.6	7.2	7.5
ESE	.1	1.8	2.3	.3	.0	.0	152	4.5	12.6	4.1	6.8	4.7	.0	4.3	5.3	5.6	2.5
SE	.5	2.0	2.3	.6	.1	.0	186	5.5	13.2	5.4	6.8	5.3	2.3	5.9	5.3	5.3	5.0
SSE	.1	1.6	1.7	.6	.0	.0	135	4.0	13.2	4.3	4.5	4.2	4.7	3.7	5.3	3.7	2.5
S	.4	2.1	3.3	.7	*	.0	222	6.6	13.6	5.3	2.3	8.1	7.0	6.7	5.3	7.6	2.5
SSW	.1	1.5	1.7	.3	.1	.0	131	3.9	13.5	4.2	.0	3.9	.0	3.1	2.6	4.9	10.0
SW	.2	2.3	2.2	.9	.1	.0	190	5.6	14.0	6.4	9.1	4.9	4.7	5.0	2.6	6.2	5.0
WSW	.2	1.2	1.7	.6	.1	.0	128	3.8	14.7	3.6	2.3	4.9	2.3	3.4	2.6	4.1	2.5
W	.4	2.2	3.3	1.2	.4	.1	255	7.6	15.8	8.1	6.8	8.3	7.0	6.5	5.3	7.8	7.5
WNW	.1	1.6	2.5	1.1	.6	*	200	5.9	17.8	5.1	4.5	4.9	7.0	7.5	13.2	5.5	7.5
NW	.4	2.2	3.8	1.7	.2	.0	277	8.2	16.0	8.9	2.3	7.0	7.0	8.5	10.5	8.5	5.0
NNW	.1	1.7	2.5	.8	.0	.0	175	5.2	14.5	5.1	9.1	4.5	7.0	4.8	5.3	6.0	10.0
VAR	.1	*	.0	.0	.0	.0	5	.1	2.6	.0	.0	.3	.0	.2	.0	.2	.0
CALM	1.9						64	1.9	.0	2.3	2.3	2.3	2.3	1.8	.0	.9	2.5
TOT	247	1117	1489	448	68	6	3375	100.0	13.9	1048	44	617	43	978	38	567	40
PCT	7.3	33.1	44.1	13.3	2.0	.2	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-14	17-27	28-40					00	03	06	09	12	15	18	21
N	2.8	6.6	4.2	.7	.0	481	14.3	13.9	14.1	13.6	13.9	7.0	16.2	13.2	11.8	20.0
NE	2.8	7.3	4.4	.1	.1	499	14.8	13.4	15.2	15.9	13.3	18.6	15.2	15.8	14.8	10.0
E	2.3	7.3	2.9	.2	.0	427	12.7	12.6	12.0	20.5	14.3	23.3	11.5	13.2	12.9	10.0
ESE	2.0	4.6	2.6	.3	.0	321	9.5	13.2	9.7	11.4	9.6	7.0	9.6	10.5	9.0	7.5
S	2.1	3.2	2.6	.6	*	353	10.5	13.6	9.5	2.3	12.0	7.0	9.8	7.9	12.5	12.5
SW	1.5	4.8	2.3	.7	*	318	9.4	14.3	10.0	11.4	9.7	7.0	8.4	5.3	10.2	7.5
W	2.3	5.2	4.1	1.6	.3	455	13.5	16.7	13.2	11.4	13.1	14.0	14.0	18.4	13.2	15.0
NW	2.1	5.8	4.4	1.1	.1	452	13.4	15.4	13.9	11.4	11.5	14.0	13.3	15.8	14.5	15.0
VAR	.1	.0	.0	.0	.0	5	.1	2.6	.0	.0	.3	.0	.2	.0	.2	.0
CALM	1.9					64	1.9	.0	2.3	2.3	2.3	2.3	1.8	.0	.9	2.5
TOT	675	1579	926	178	17	3375	100.0	13.9	1048	44	617	43	978	38	567	40
PCT	20.0	46.8	27.4	5.3	.5	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1886-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	2.0	11.5	13.3	4.1	.7	.1	.0	.7	13.4	32.4	1092
06&09	.5	6.4	9.0	2.6	.4	.1	.1	.4	14.1	19.6	660
12&15	2.1	10.1	12.6	4.2	.5	.1	.1	.5	13.6	30.1	1016
18&21	.6	5.1	9.2	2.4	.5	.0	*	.2	14.9	18.0	607
TOT	179	1116	1489	448	68	6	5	64	13.9		3375
PCT	5.3	33.1	44.1	13.3	2.0	.2	.1	1.9		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION					MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	
N	1.8	1.8	2.9	1.2	181	4.6
NNE	1.8	1.2	2.3	1.0	151	4.6
NE	1.7	2.0	2.8	1.4	188	4.8
ENE	1.9	1.7	1.9	.6	143	4.0
E	2.0	2.0	2.6	1.8	199	4.8
ESE	.8	1.2	1.8	1.2	117	5.2
SE	1.0	1.4	1.8	1.4	132	5.1
SSE	.6	.9	1.1	1.0	85	5.2
S	1.4	1.3	2.3	1.7	158	5.1
SSW	.9	.9	1.0	1.2	95	4.9
SW	1.5	1.0	2.0	1.0	129	4.7
WSW	.9	.9	1.6	.5	92	4.5
W	1.9	1.7	2.5	1.3	174	4.6
WNW	1.0	1.4	2.8	1.0	145	5.1
NW	1.3	2.1	3.3	1.0	182	4.9
NNW	1.4	1.6	2.2	.8	144	4.6
VAR	*	*	.1	.0	5	5.0
CALM	.8	.3	.4	.1	39	3.0
TOT	537	552	839	431	2359	4.7
PCT	22.8	23.4	35.6	18.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION														TOTAL OBS
000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT				
149	299	599	999	1999	3499	4999	6499	7999						
.0	.0	*	.3	1.3	1.2	.3	.1	.0	*	4.4			181	
*	.0	.1	.3	1.1	.7	.1	.1	.0	.0	4.0			151	
*	.0	.1	.4	.7	1.3	.3	*	.0	*	5.1			188	
.0	.0	.0	.2	.5	.7	.1	*	*	.0	4.5			143	
.0	.0	*	.4	.6	1.3	.2	.0	.0	*	5.9			199	
.0	.0	.0	.2	.8	.7	.3	.0	.0	.0	3.0			117	
.0	.0	.0	.3	.6	.6	.2	.0	*	.1	3.9			127	
.0	.0	.2	.2	.5	.4	.0	.1	.0	.0	2.2			85	
.1	.0	*	.4	1.2	.4	.2	.1	.1	*	4.1			158	
.0	.0	.0	.3	.6	.3	.1	.0	.0	.0	2.8			95	
.0	*	.1	.6	.6	.4	.1	.0	.0	.0	3.6			129	
.0	.0	*	.4	.3	.3	.2	*	.1	.0	2.5			92	
.0	.0	*	.5	1.3	.7	.3	.1	.0	*	4.4			174	
.0	*	.0	.5	1.3	.6	.1	*	.1	.1	3.3			145	
.0	.0	.0	.4	1.1	1.4	.3	.0	.0	.0	4.5			182	
.0	.0	*	.3	.6	1.1	.2	.1	.0	*	3.8			144	
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1			5	
.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	1.4			39	
4	2	17	139	307	285	69	17	8	10	1501			2359	
.2	.1	.7	5.9	13.0	12.1	2.9	.7	.3	.4	63.6			100.0	

PERIOD: (PRIMARY) 1944-1967  
 (OVER-ALL) 1886-1967

NOVEMBER

AREA 002 BERMUDA  
 30-34N 63-67W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
 OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	.6	.8	.8	.8	.8	.8	.8
= OR >5000	1.0	1.5	1.5	1.5	1.5	1.5	1.5
= OR >3500	3.1	4.4	4.4	4.4	4.4	4.4	4.4
= OR >2000	12.0	16.5	16.5	16.5	16.5	16.5	16.5
= OR >1000	21.6	28.9	29.4	29.4	29.4	29.5	29.5
= OR >600	26.0	34.5	35.2	35.3	35.3	35.4	35.4
= OR >300	26.3	35.1	35.8	36.0	36.0	36.0	36.0
= OR >150	26.4	35.2	35.9	36.1	36.1	36.1	36.1
= OR > 0	26.4	35.3	36.1	36.3	36.3	36.3	36.3
TOTAL	625	835	853	857	857	858	858

TOTAL NUMBER OF OBS: 2364

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.1	11.2	18.9	14.8	11.9	8.3	11.0	6.7	9.9	.2	2541

NOVEMBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1886-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	NO PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.0
1<2	PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.0	4	.2
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	4	.2
2<5	PCP	*	.0	.0	*	.1	*	.0	.1	*	.1	.0	.0	.1	.1	*	.0	.0	.0	17	.8
	NO PCP	.0	*	.0	*	.0	.0	.0	.0	.0	*	.0	.0	.1	*	.0	*	.0	.0	7	.3
	TOTAL	1	1	0	2	2	1	0	3	1	4	0	0	4	3	1	1	0	0	24	1.1
5<10	PCP	*	*	.1	.1	.2	.2	.2	.1	.3	.2	.1	.1	.2	.1	.0	.1	.0	.0	48	2.1
	NO PCP	1.0	.7	1.0	.8	1.2	.4	1.1	.4	.9	.5	.4	.6	1.3	1.3	1.4	.6	.0	.1	304	13.6
	TOTAL	24	16	25	20	30	13	29	11	28	15	11	15	34	30	31	17	0	3	352	15.7
10<5	PCP	.1	.1	*	.1	*	.1	.1	.0	.2	.1	.1	*	.1	*	*	*	.0	*	30	1.3
	NO PCP	6.5	5.6	7.1	4.9	6.8	4.1	4.2	2.5	5.2	3.2	5.0	3.2	5.4	4.5	6.3	5.4	.2	1.6	1827	81.6
	TOTAL	149	128	159	112	154	93	96	57	121	73	114	73	123	101	142	121	5	36	1857	83.0
	TOTAL PCT	174 7.8	146 6.5	185 8.3	134 6.0	187 8.4	107 4.8	125 5.6	71 3.2	150 6.7	92 4.1	126 5.6	89 4.0	161 7.2	134 6.0	174 7.8	139 6.2	5 .2	39 1.7	2238 100.0	

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1886-1967

NOVEMBER

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NH)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*	
	22&>	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	1	*
	TOTAL	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*	
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	1	*	
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	0	4	.2
	TOTAL	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	4	.2
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.0	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	12	.5	
	11-21	*	.0	.0	*	*	.0	.0	*	.0	.1	.0	.0	.1	*	.0	*	.0	.0	9	.4	
	22&>	.0	*	.0	*	*	.0	.0	*	*	.0	.0	.0	.0	.1	*	.0	.0	.0	0	24	1.0
	TOTAL	1	1	0	2	2	1	0	3	1	4	0	0	4	3	1	1	1	0	0	24	1.0
5<10	0-3	.0	.0	.1	.0	.1	.0	*	.0	.2	.0	*	.0	*	.0	.0	.0	.0	.0	-1	14	.6
	4-10	.4	.2	.3	.4	.3	.1	.2	.1	.2	.3	.2	.1	.2	.1	.2	.2	.5	.0	77	3.3	
	11-21	.5	.3	.6	.4	.8	.4	.6	.5	.6	.2	.2	.3	.7	.6	.8	.5	.0	.0	190	8.0	
	22&>	.3	.3	.2	.2	.1	.0	.4	*	.3	.1	.1	.3	.6	.7	.4	.1	.0	.0	3	98	4.1
	TOTAL	26	16	26	22	32	13	31	15	30	15	13	16	35	33	34	19	0	0	3	379	16.0
10&>	0-3	.4	.2	.2	.2	*	.1	.2	*	.1	.1	.1	.1	.2	.0	.1	*	.2	1.5	90	3.8	
	4-10	1.4	1.2	1.3	.8	2.2	1.0	.9	.9	1.4	.9	1.3	.9	1.6	.7	.8	1.2	*	0	437	18.5	
	11-21	3.8	3.4	4.9	3.6	3.8	2.9	2.6	1.5	3.4	1.9	2.4	1.8	3.0	2.6	3.8	3.2	.0	0	1154	48.8	
	22&>	1.0	.8	.5	.5	.9	.3	.5	.3	.5	.3	1.1	.3	.9	1.3	1.5	.8	.0	0	275	11.6	
	TOTAL	156	134	165	119	164	102	101	66	127	76	115	75	135	109	147	124	5	36	1956	82.7	
TOTAL	PCT	183 7.7	152 6.4	192 8.1	143 6.0	199 8.4	116 4.9	132 5.6	84 3.6	158 6.7	95 4.0	129 5.5	92 3.9	174 7.4	145 6.1	182 7.7	144 6.1	5 .2	39 1.6	2364 100.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1886-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4599	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.1	.0	.2	1.4	3.3	3.2	.7	.2	.1	.1	231	17.5	666
06009	.0	.0	.2	1.4	3.2	2.4	.6	.1	.1	.2	203	16.1	605
12015	*	.0	.2	1.3	3.4	3.0	.9	.3	.2	.1	233	16.1	633
18021	*	.1	.1	1.5	2.5	3.0	.5	.2	.0	*	199	15.6	587
TOT	4	2	17	140	309	289	69	18	8	10	866	1625	2491
PCT	.2	.1	.7	5.6	12.4	11.6	2.8	.7	.3	.4	34.8	65.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	.2	5.1	21.6	638
06009	.0	.0	*	.2	4.1	20.3	585
12015	*	.0	.1	.4	3.5	20.7	587
18021	.0	.0	.0	.2	3.4	20.1	563
TOT	1	0	4	24	382	1962	2373
PCT	*	.0	.2	1.0	16.1	82.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ 00R5+	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.1	9.6	17.2	638
06009	.0	.0	.1	8.5	16.1	585
12015	.0	.0	.2	9.7	14.9	587
18021	.0	.0	*	8.3	15.3	563
TOT	0	0	10	855	1508	2373
PCT	.0	.0	.4	36.0	62.5	100.0

NOVEMBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1886-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
80/84	.0	.0	.1	.2	.5	.4	.3	.1	37	1.4
75/79	.0	*	.2	1.0	2.3	7.3	5.7	2.5	503	19.0
70/74	.0	.0	.4	4.0	13.5	13.5	12.8	8.1	1385	52.2
65/69	.0	.0	.3	3.6	7.3	6.2	3.7	3.3	649	24.5
60/64	.0	.0	.0	.3	1.3	.7	.3	.2	76	2.9
55/59	.0	.0	.0	.0	.0	.1	*	*	4	.2
TOTAL	0	1	27	238	660	745	604	379	2654	100.0
PCT	.0	*	1.0	9.0	24.9	28.1	22.8	14.3		

TABLE 14

N	NE	E	SE	S	SW	W	NW	VAR	CALM	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP									
										0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
.2	.2	.3	.1	.3	.2	.1	.1	.0	*	.2	.2	.3	.1	.3	.2	.1	.1	.0	*
.9	2.5	3.0	4.0	4.2	1.7	1.2	1.2	.0	.3	7.2	8.6	7.0	5.0	5.5	5.5	6.9	5.4	.2	.8
5.3	3.4	2.3	.6	.6	1.1	5.2	5.4	.0	.6	.7	.5	.1	.1	.0	.1	.5	.9	.0	.1
.0	*	*	.0	.0	.0	.0	.1	.0	.0	.0	*	*	.0	.0	.0	.0	.1	.0	.0
376	403	338	261	282	226	370	343	5	.0	14.2	15.2	12.7	9.8	10.6	8.5	13.9	12.9	.2	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

hour (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	85	80	77	71	64	61	57	71.0	1084
06&09	79	78	76	71	65	62	57	70.7	649
12&15	85	81	78	72	65	61	58	71.2	1009
18&21	87	84	80	73	66	62	57	73.3	596
TOT	87	80	76	70	63	60	57	71.4	3338

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

hour (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.7	7.6	8.9	7.3	5.1	76	842
06&09	.0	1.9	5.6	5.3	5.5	2.9	75	565
12&15	.0	2.7	6.5	8.5	6.7	4.5	76	770
18&21	.0	2.9	5.1	5.3	3.3	2.0	72	497
TOT	0	272	660	749	608	385	75	2674

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1886-1967

NOVEMBER

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	*	.1	3	.0	.1
9/10	.0	.0	.0	.0	.0	.1	.0	*	3	.0	.1
7/8	.0	.0	.0	*	.1	.1	.2	.0	10	.0	.4
6	.0	.0	.0	.0	*	.2	.1	.0	9	.0	.4
5	.0	.0	.0	*	*	.4	*	.0	12	.0	.5
4	.0	.0	.0	.1	.2	.7	.1	.0	26	.0	1.1
3	.0	.0	.1	.3	.4	.6	.0	.0	32	.0	1.4
2	.0	*	.0	.5	1.7	1.0	*	.0	76	.0	3.3
1	.0	.0	.1	.7	3.3	1.1	*	.0	122	.0	5.3
0	.0	.0	.3	2.0	5.7	.8	.1	.0	204	.0	8.9
-1	.0	.0	.2	3.9	6.0	.9	.0	.0	253	*	11.0
-2	.0	*	.5	5.9	5.7	.4	.0	.0	290	.0	12.6
-3	.0	.1	.7	6.1	3.3	.1	.0	.0	237	.0	10.3
-4	.0	*	2.0	6.3	2.9	.1	.0	.0	261	.0	11.4
-5	.0	*	2.8	5.5	1.5	.1	.0	.0	229	.0	10.0
-6	*	*	2.8	3.4	.8	*	.0	.0	164	.0	7.1
-7/-8	.0	.3	4.5	3.6	.7	.0	.0	.0	210	*	9.1
-9/-10	.0	.7	2.3	.8	.1	.0	.0	.0	93	.0	4.0
-11/-13	.0	1.0	.8	.1	*	.0	.0	.0	46	.0	2.0
-14/-16	.2	.2	.2	.1	.0	.0	.0	.0	18	.0	.8
-17/-19	.0	.0	*	.0	.0	.0	.0	.0	1	.0	*
TOTAL	6	61	396	909	753	155	16	3	2299	2	2297
PCT	.3	2.7	17.2	39.5	32.8	6.7	.7	.1	100.0	.1	99.9







NOVEMBER

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 18 (CGNT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL DBS
<1	3.2	5.6	.4	.1	.0	.0	68
1-2	.8	13.8	10.7	.1	.0	.0	186
3-4	.3	7.7	17.3	2.6	.0	.1	204
5-6	.0	2.2	10.3	1.9	.3	.0	107
7	.1	.7	5.9	3.8	.0	.0	77
8-9	.0	.5	2.1	2.1	.4	.0	37
10-11	.0	.0	1.1	.8	.4	.0	17
12	.0	.0	.7	.7	.3	.0	12
13-16	.0	.0	.0	.5	.8	.0	10
17-19	.0	.0	.0	.0	.1	.0	1
20-22	.0	.0	.0	.0	.8	.0	6
23-25	.0	.0	.0	.0	.3	.0	2
26-32	.0	.0	.0	.0	.0	.4	3
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	32	223	353	93	25	4	730
PCT	4.4	30.5	48.4	12.7	3.4	.5	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.5	13.1	13.3	6.9	4.3	1.2	.8	1.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	315	3
6-7	.0	.5	5.6	8.7	5.4	2.8	1.1	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	189	5
8-9	.0	.7	.8	2.3	3.5	3.3	2.0	.5	.9	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	108	7
10-11	.1	.3	.8	1.6	.7	1.2	1.1	.4	.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	7
12-13	.0	.1	.3	.1	.0	.0	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	8
>13	.4	.0	.0	.3	.3	.5	.0	.1	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	14	8
INDET	3.7	.8	1.6	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	1
TOTAL	42	115	165	150	105	70	40	27	15	2	5	0	2	0	0	0	0	0	0	0	738	5
PCT	5.7	15.6	22.4	20.3	14.2	9.5	5.4	3.7	2.0	.3	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1858-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
N	.2	.1	*	.0	.0	.0	.0	9	*	.0	.0	.1	3	185	.4	
NNE	.2	*	.1	.0	.0	.0	.0	7	.0	.0	.0	.0	0	128	.3	
NE	.3	*	.1	.0	.0	.0	.0	12	.0	.0	.0	.0	0	144	.5	
ENE	.2	*	.2	.0	.0	.0	.0	9	.0	.0	.0	.0	0	89	.4	
E	.2	.1	*	.0	.0	.0	.0	8	.0	.0	.0	.0	0	131	.3	
ESE	*	.1	.1	.0	.0	.0	.0	5	*	.0	.0	.0	1	60	.2	
SE	.3	.0	.1	.0	.0	.0	.0	10	.1	.0	.0	.0	2	82	.4	
SSE	.3	.1	.0	.0	.0	.0	.0	10	*	*	*	.0	3	91	.4	
S	.2	.1	.2	.0	.0	.0	.0	12	.1	.0	*	.0	4	174	.5	
SSW	.2	.2	.2	.0	.0	.0	.0	14	*	.0	*	.0	2	114	.6	
SW	.5	.2	.2	.0	.0	.0	.0	23	.2	.0	*	.0	6	198	1.0	
WSW	.2	.1	*	.0	.0	.0	.0	10	*	.0	.1	.0	4	147	.4	
W	.3	.2	.2	.0	.0	.0	.0	16	.2	.0	.0	.0	4	221	.7	
WNW	.2	.3	.1	.0	.0	.0	.0	16	.0	.0	.0	.0	0	187	.7	
NW	.1	.2	.1	.0	.0	.0	.0	10	.0	.0	.0	.0	0	242	.4	
NNW	.2	.1	*	.0	.0	.0	.0	8	.1	.0	.0	.0	2	177	.3	
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	3	.0	
CALM	.1	.0	*	.0	.0	.0	.0	3	.0	.0	.0	.0	0	29	.1	
TOT	96	46	40	0	0	0	0	182	21	1	7	2	31	2402		
PCT	4.0	1.9	1.7	.0	.0	.0	.0	7.6	.9	*	.3	.1	1.3	100.0	7.6	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
00&03	1.0	.7	.5	.0	.0	.0	.0	54	.5	.0	.1	*	16	662	2.2	
06&09	.8	.2	.4	.0	.0	.0	.0	35	.3	.0	*	.0	8	550	1.4	
12&15	1.2	.7	.4	.0	.0	.0	.0	56	*	.0	.1	.0	3	603	2.3	
18&21	.9	.3	.3	.0	.0	.0	.0	38	*	*	*	*	4	605	1.6	
TOT	96	46	41	0	0	0	0	183	21	1	7	2	31	2420		
PCT	4.0	1.9	1.7	.0	.0	.0	.0	7.6	.9	*	.3	.1	1.3	100.0	7.6	

## DECEMBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1858-1967

TABLE 3

AREA 002 BERMUDA  
30-34N 63-67W

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.6	2.4	3.4	1.2	.3	.0	235	7.9	14.9	7.5	15.4	6.8	3.3	8.2	10.0	8.6	12.9
NNE	.3	1.8	2.5	.4	.0	.0	150	5.1	12.9	5.1	.0	6.1	3.3	4.6	.0	5.7	.0
NE	.2	2.1	2.6	.6	.2	*	166	5.6	14.6	6.2	.0	6.4	3.3	4.8	6.7	5.3	6.5
ENE	.1	1.4	1.7	.3	.1	.0	106	3.6	13.1	3.5	3.8	3.0	3.3	4.1	.0	3.6	3.2
E	.5	1.9	2.1	.4	*	.0	143	4.8	12.3	3.9	3.8	6.8	6.7	4.7	3.3	4.7	3.2
ESE	.1	1.0	1.2	.2	.0	.0	77	2.6	12.8	2.6	3.8	3.4	3.3	2.2	3.3	2.1	6.5
SE	.3	1.6	1.2	.4	*	.0	104	3.5	12.2	3.0	.0	4.2	.0	3.0	6.7	4.5	3.2
SSE	.2	1.1	1.6	.8	*	.0	111	3.7	15.0	2.7	7.7	3.2	3.3	4.4	6.7	4.5	3.2
S	.2	2.1	3.5	.9	.2	*	210	7.1	15.0	6.9	.0	7.4	6.7	6.4	6.7	8.4	6.5
SSW	.2	1.5	2.3	1.0	.3	.0	155	5.2	16.6	6.5	3.8	6.3	6.7	4.3	3.3	3.4	9.7
SW	.2	2.2	4.7	1.6	.3	.0	266	9.0	16.1	9.2	.0	9.3	13.3	10.2	10.0	6.7	6.5
WSW	.1	1.6	3.2	1.2	.1	.0	182	6.1	16.1	6.3	.0	5.7	6.7	6.8	3.3	5.9	3.2
W	.3	2.0	4.4	1.8	.5	.0	267	9.0	17.1	9.3	11.5	8.1	10.0	9.4	13.3	8.8	.0
WNW	.2	1.5	3.3	2.0	.4	.0	218	7.3	18.5	7.8	15.4	5.3	10.0	6.7	6.7	9.0	9.7
NW	.3	2.5	4.6	2.4	.4	*	304	10.2	17.0	10.7	11.5	10.6	6.7	10.7	6.7	8.6	16.1
NNW	.1	2.2	3.4	1.4	.5	*	224	7.5	17.1	6.4	19.2	6.4	6.7	7.6	13.3	9.5	6.5
VAR	*	.1	.0	.0	.0	.0	3	.1	3.3	.0	.0	.0	.0	.1	.0	.3	.0
CALM	1.6						47	1.6	.0	2.4	3.8	.9	6.7	1.8	.0	.3	3.2
TOT	160	857	1355	494	98	4	2968	100.0	15.3	889	26	528	30	854	30	580	31
PCT	5.4	28.9	45.7	16.6	3.3	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	2.1	6.3	3.5	.9	.1	385	13.0	14.1	12.6	15.4	12.9	6.7	12.8	10.0	14.3	12.9
NE	1.3	5.3	2.0	.6	*	272	9.2	14.0	9.7	3.8	9.5	6.7	8.9	6.7	9.0	9.7
E	1.6	3.7	2.1	.1	.0	220	7.4	12.5	6.5	7.7	10.2	10.0	6.9	6.7	6.7	9.7
SE	1.2	3.7	2.0	.3	.0	215	7.2	13.6	5.7	7.7	7.4	3.3	7.5	13.3	9.0	6.5
S	1.5	6.1	3.5	1.0	.1	365	12.3	15.6	13.4	3.8	13.6	13.3	10.8	10.0	11.9	16.1
SW	1.2	7.3	5.4	1.1	*	448	15.1	16.1	15.5	.0	15.0	20.0	17.0	13.3	12.6	9.7
W	1.7	6.7	5.2	2.4	.4	485	16.3	17.7	17.1	26.9	13.4	20.0	16.0	20.0	17.8	9.7
NW	1.7	7.8	5.9	2.2	.2	528	17.8	17.1	17.1	30.8	17.0	13.3	18.3	20.0	18.1	22.6
VAR	.1	.0	.0	.0	.0	3	.1	3.3	.0	.0	.0	.0	.1	.0	.3	.0
CALM	1.6					47	1.6	.0	2.4	3.8	.9	6.7	1.8	.0	.3	3.2
TOT	416	1395	881	252	24	2968	100.0	15.3	889	26	528	30	854	30	580	31
PCT	14.0	47.0	29.7	8.5	.8	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0



DECEMBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1858-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	1.1	1.1	1.2	1.2	1.2	1.2	1.2
= OR >5000	1.2	1.2	1.3	1.3	1.3	1.3	1.3
= OR >3500	3.9	4.2	4.2	4.2	4.2	4.2	4.2
= OR >2000	12.0	14.6	14.9	14.9	15.0	15.0	15.0
= OR >1000	24.4	29.8	30.7	30.9	31.0	31.0	31.0
= OR >600	30.2	38.1	39.3	39.7	39.8	39.8	39.8
= OR >300	31.0	39.9	41.1	41.4	41.6	41.6	41.6
= OR >150	31.2	40.0	41.3	41.7	41.8	41.8	41.8
= OR > 0	31.4	40.3	41.7	42.1	42.2	42.3	42.3
TOTAL	680	874	903	912	915	916	916

TOTAL NUMBER OF OBS: 2168

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.2	7.9	15.4	14.2	13.2	8.6	12.4	8.3	12.5	.3	2326

DECEMBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1858-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	2	.1
	TOTAL	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2	.1
	PCP	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	2	.1
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	3	.1
	PCP	*	.0	.1	.0	.0	.0	*	.0	*	.0	*	.0	.0	*	.0	.0	.0	.0	7	.3
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	1	0	2	0	0	0	1	0	1	0	2	0	0	1	0	0	0	0	8	.4
	PCP	*	.1	*	*	*	*	.1	*	.0	*	*	*	*	.1	*	*	.0	.0	20	1.0
2<5	NO PCP	*	.0	.0	.0	.0	.0	*	.1	.2	.0	.1	.0	*	.0	*	.0	.0	.0	12	.6
	TOTAL	2	2	1	1	1	1	4	3	4	1	3	1	2	3	2	1	0	0	32	1.5
	PCP	.2	*	.3	.1	.0	*	.2	.3	.2	.3	.5	.2	.1	.3	.2	.1	.0	.0	68	3.2
5<10	NO PCP	.9	.1	.6	.4	.6	.3	.2	.3	.9	.7	.5	.7	.9	.7	1.3	1.1	*	*	215	10.2
	TOTAL	23	4	20	11	13	7	8	12	23	22	20	19	21	21	32	25	1	1	283	13.5
	PCP	.0	*	*	.1	.2	.1	*	.1	.1	.1	*	.1	.2	.1	.1	.1	.0	.0	33	1.6
10<>	NO PCP	6.4	4.5	5.0	3.1	4.6	2.1	2.9	3.2	5.9	3.6	6.4	5.0	7.6	6.2	8.6	6.4	.1	1.0	1740	82.8
	TOTAL	134	95	107	67	100	48	62	70	127	78	136	108	164	133	183	137	2	22	1773	84.4
	TOTAL	160	101	130	79	114	56	75	86	156	101	163	128	188	158	217	163	3	23	2101	100.0
	PCT	7.6	4.8	6.2	3.8	5.4	2.7	3.6	4.1	7.4	4.8	7.8	6.1	8.9	7.5	10.3	7.8	.1	1.1	100.0	



DECEMBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1858-1967

TABLE 9

AREA 002 BERMUDA  
30-34N 63-67W

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	226>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	226>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
	TOTAL	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	3
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.2
	226>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.2
	TOTAL	1	0	2	0	0	0	1	0	1	0	2	0	0	1	0	1	0	0	0	9
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.2
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	13	.6
	226>	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	.7
	TOTAL	2	2	1	1	1	1	4	3	4	1	3	1	2	3	2	1	0	0	0	32
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.2
	4-10	.2	.0	.1	.1	.1	.1	.0	.1	.1	.1	.1	.1	.0	.1	.1	.2	.0	.0	30	1.4
	11-21	.6	.2	.4	.3	.4	.1	.2	.3	.6	.3	.6	.5	.6	.5	.5	.4	.0	.0	137	6.3
	226>	.3	.0	.4	.1	.2	.1	.2	.2	.4	.6	.2	.4	.4	.4	.9	.5	.0	.0	119	5.5
	TOTAL	25	5	20	11	13	7	9	12	24	22	20	20	21	21	33	25	1	1	290	13.4
10&>	0-3	.3	.1	.1	.1	.5	.1	.1	.1	.0	.0	.1	.0	.1	.1	.0	.0	.0	1.0	65	3.0
	4-10	1.6	1.2	1.2	1.1	1.2	.9	1.2	.8	1.3	.9	.8	.8	1.2	.6	1.4	1.1	.0	.0	376	17.3
	11-21	3.3	2.8	3.1	1.7	2.7	1.2	1.6	1.7	3.7	2.3	4.4	3.2	4.9	3.2	5.6	3.9	.0	.0	1067	49.2
	226>	1.2	.4	.6	.1	.3	.1	.2	.7	.9	.6	1.3	1.1	1.8	2.3	1.9	1.4	.0	.0	324	14.9
	TOTAL	139	96	109	67	102	51	66	73	128	82	144	110	171	136	195	139	2	22	1832	84.5
TOTAL		167	103	132	79	116	59	80	89	158	105	171	131	195	161	230	166	3	23	2168	100.0
PCT		7.7	4.8	6.1	3.6	5.4	2.7	3.7	4.1	7.3	4.8	7.9	6.0	9.0	7.4	10.6	7.7	.1	1.1	100.0	

DECEMBER

PERIOD: (PRIMARY) 1944-1967  
(OVEX-ALL) 1858-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.1	.0	.4	2.1	3.4	2.9	.7	.0	*	.3	227	16.2	595
06009	.1	.1	.2	1.8	3.8	1.8	.7	*	.1	*	198	13.5	504
12015	.1	.1	.4	2.3	4.3	2.8	.6	.1	.1	*	245	14.8	581
18021	.2	*	.7	2.2	4.0	2.9	.7	.0	.1	.3	253	14.9	591
TOT	11	5	39	190	351	236	63	3	9	16	923	1348	2271
PCT	.5	.2	1.7	8.4	15.5	10.4	2.8	.1	.4	.7	40.6	59.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	*	*	.3	4.3	21.3	567
06009	*	.0	*	.2	2.9	19.3	489
12015	*	.1	.2	.6	3.1	21.3	550
18021	.0	.0	.1	.5	3.1	22.6	573
TOT	2	3	9	33	290	1842	2179
PCT	.1	.1	.4	1.5	13.3	84.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ &DR5+	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.2	10.2	15.6	567
06009	.0	.0	.0	9.0	13.4	489
12015	.0	*	.3	11.0	14.0	550
18021	.0	.0	.2	11.3	14.7	573
TOT	0	1	14	905	1259	2179
PCT	.0	*	.6	41.5	57.8	100.0

DECEMBER

PERIOD: (PRIMARY) 1944-1967  
(OVER-ALL) 1858-1967

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
80/84	.0	.0	.0	.0	.0	*	.0	.0	1	*
75/79	.0	*	.0	.2	.3	.9	.4	.2	47	2.0
70/74	.0	.0	.3	1.2	5.4	8.3	10.9	7.0	781	33.1
65/69	*	*	.5	5.0	10.7	12.3	9.4	6.4	1044	44.2
60/64	.0	.0	.3	2.8	6.0	3.8	2.4	1.9	408	17.3
55/59	.0	.0	.0	*	.8	1.3	.7	.3	73	3.1
50/54	.0	.0	.0	.0	*	.1	.2	*	8	.3
TOTAL	1	2	26	215	548	631	565	374	2362	100.0
PCT	*	.1	1.1	9.1	23.2	26.7	23.9	15.8		

TABLE 14

	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW				
80/84	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0
75/79	.2	.2	.2	.1	.7	.6	.1	.1	.0	.0	.0	.0
70/74	1.8	2.6	2.5	3.6	7.6	7.9	4.1	2.4	.1	.5	.6	.6
65/69	6.3	4.7	3.9	2.5	3.9	5.5	8.3	8.3	*	.6	.6	.6
60/64	4.2	1.4	.5	.4	.5	1.1	3.5	5.5	.0	.3	.3	.3
55/59	.8	.1	*	*	*	*	1.0	1.0	.0	*	*	*
50/54	.1	*	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0
TOTAL	314	212	170	158	300	355	405	412	3	33	33	33
PCT	13.3	9.0	7.2	6.7	12.7	15.0	17.1	17.4	.1	1.4	1.4	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	76	75	73	68	60	56	54	67.3	908
06&09	75	75	73	68	60	56	53	67.2	554
12&15	78	75	73	68	60	55	51	67.3	876
18&21	81	78	76	70	62	57	55	68.9	597
TOT	81	78	75	69	60	55	51	67.6	2935

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.6	6.3	7.3	7.7	5.5	76	699
06&09	.0	1.9	5.0	5.7	4.8	3.1	75	485
12&15	*	2.2	6.2	8.4	6.9	4.7	76	676
18&21	.0	3.6	6.0	5.3	4.5	2.4	72	519
TOT	1	246	557	639	566	376	75	2379

PERIOD: (PRIMARY) 1944-1967  
 (OVER-ALL) 1858-1967

DECEMBER

AREA 002 BERMUDA  
 30-34N 63-67W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
 VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
7/8	.0	.0	.0	.0	*	*	.1	.0	4	.0	.2
6	.0	.0	.0	.0	.0	*	.0	*	2	.0	.1
5	.0	.0	.0	.0	*	.1	.1	.0	6	.0	.3
4	.0	.0	.0	.0	.2	.6	.0	.0	17	.0	.8
3	.0	.0	.0	.1	.6	.9	.0	.0	34	.0	1.6
2	.0	.0	.0	.1	1.4	.9	.1	.0	53	.0	2.5
1	.0	.0	.0	.2	2.3	1.4	.1	.0	84	.0	4.0
0	.0	.0	.1	.6	3.6	2.0	.0	.0	175	.0	8.2
-1	.0	.0	.1	1.0	5.9	1.2	.0	.0	175	*	8.2
-2	.0	.0	.1	3.5	5.9	.8	.0	.0	222	.0	10.3
-3	.0	.0	.1	4.4	5.5	.2	.0	.0	218	.0	10.2
-4	.0	*	.6	5.2	4.3	.2	.0	.0	219	.0	10.3
-5	.0	.1	.8	5.3	2.5	.1	.0	.0	189	.0	8.9
-6	.0	.0	2.0	4.6	1.1	*	.0	.0	164	.0	7.7
-7/-8	.0	.4	4.8	5.3	1.1	.0	.0	.0	248	.0	11.7
-9/-10	.0	.8	3.9	2.4	*	.0	.0	.0	151	.0	7.1
-11/-13	.2	1.9	2.6	.8	.0	.0	.0	.0	117	.0	5.5
-14/-16	.7	.9	.3	*	.0	.0	.0	.0	42	.0	2.0
-17/-19	.1	.1	*	.0	.0	.0	.0	.0	5	.0	.2
TOTAL	21	91	331	713	779	180	9	1	2125	1	2124
PCT	1.0	4.3	15.6	33.6	36.7	8.5	.4	*	100.0	*100.0	

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

DECEMBER

TABLE 18

AREA 002 BERMUDA  
30-34N 63-67W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							TOTAL	NE						
	1-3	4-10	11-21	22-33	34-37	48+	1-3		4-10	11-21	22-33	34-37	48+	TOTAL	
<1	.5	.5	.0	.0	.0	.0	6	.2	.5	.0	.0	.0	.0	4	
1-2	.5	1.8	.9	.0	.0	.0	18	.2	1.2	.4	.0	.2	.2	14	
3-4	.0	1.1	2.1	.0	.0	.0	18	.0	1.3	1.1	.0	.0	.0	13	
5-6	.0	1.1	3.4	.7	.0	.0	29	.0	.4	.9	.2	.0	.0	8	
7	.0	.4	1.1	.2	.0	.0	9	.0	.0	.0	.2	.0	.0	1	
8-9	.0	.0	.7	.5	.2	.0	8	.0	.0	.2	.2	.0	.0	2	
10-11	.0	.0	.4	.5	.2	.0	6	.0	.0	.2	.0	.2	.0	2	
12	.0	.0	.0	.5	.2	.0	4	.0	.0	.0	.0	.4	.0	2	
13-16	.0	.0	.0	.2	.2	.0	2	.0	.4	.0	.0	.0	.0	2	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.2	.0	1	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	6	27	48	15	5	0	101	2	23	15	3	4	1	48	
PCT	1.1	4.8	8.6	2.7	.9	.0	18.0	.4	4.1	2.7	.5	.7	.2	8.6	

HGT	E							TOTAL	SE						
	1-3	4-10	11-21	22-33	34-37	48+	1-3		4-10	11-21	22-33	34-37	48+	TOTAL	
<1	.2	.4	.0	.0	.0	.0	3	.2	.2	.0	.0	.0	.0	2	
1-2	.0	1.4	.9	.0	.0	.0	13	.0	.4	.7	.0	.0	.0	5	
3-4	.2	.7	2.3	.2	.0	.0	19	.0	.9	.7	.0	.0	.0	5	
5-6	.0	.2	.9	.2	.0	.0	7	.0	.4	.5	.0	.0	.0	3	
7	.0	.0	.4	.0	.0	.0	2	.0	.0	.4	.7	.0	.0	6	
8-9	.0	.0	.0	.0	.0	.0	0	.0	.2	.2	.0	.0	.0	2	
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	2	15	25	2	0	0	44	1	11	14	4	0	0	30	
PCT	.4	2.7	4.5	.4	.0	.0	7.9	.2	2.0	2.5	.7	.0	.0	5.4	

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

DECEMBER

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						TOTAL	SW						TOTAL		
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+			
<1	.0	.2	.0	.0	.0	.0	1	.0	1.3	.0	.0	.0	.0	.0	7	
1-2	.0	.9	1.6	.0	.0	.0	14	.0	.7	.4	.0	.0	.0	.0	6	
3-4	.0	1.3	1.4	.2	.0	.0	16	.0	1.4	2.5	.2	.0	.0	.0	23	
5-6	.0	.4	1.8	.4	.2	.0	15	.0	.2	2.3	.2	.0	.0	.0	15	
7	.0	.0	.2	.5	.2	.0	5	.0	.2	.7	.5	.0	.0	.0	8	
8-9	.0	.0	.0	.2	.2	.0	2	.0	.0	.2	.4	.5	.0	.0	6	
10-11	.0	.0	.2	.0	.2	.0	2	.0	.0	.4	.2	.2	.0	.0	4	
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
13-16	.0	.0	.2	.0	.5	.0	4	.0	.0	.0	.0	.0	.0	.0	0	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
TOTAL	0	15	30	7	7	0	59	0	21	36	8	4	0	69		
PCT	.0	2.7	5.4	1.3	1.3	.0	10.5	.0	3.8	6.4	1.4	.7	.0	12.3		
HGT	W						TOTAL	NW						TOTAL	GRAND TOTAL	
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+			
<1	.0	.5	.2	.0	.0	.0	4	.0	.2	.0	.0	.0	.0	.0	1	28
1-2	.0	1.4	2.5	.0	.0	.0	22	.0	1.1	.9	.0	.0	.0	.0	11	104
3-4	.0	1.4	2.7	.4	.0	.0	25	.0	1.4	3.8	1.1	.0	.0	.0	35	158
5-6	.0	.4	2.1	.7	.0	.0	18	.0	1.3	2.1	.2	.0	.0	.0	20	117
7	.0	.0	.5	.4	.0	.0	5	.0	.4	1.6	1.4	.0	.0	.0	19	55
8-9	.0	.0	.5	.5	.4	.0	8	.0	.0	.4	.5	.2	.0	.0	6	34
10-11	.0	.2	.2	.9	.0	.0	7	.0	.0	.9	.4	.2	.0	.0	8	29
12	.0	.0	.2	.2	.0	.0	2	.0	.0	.0	.4	.2	.0	.0	3	11
13-16	.0	.0	.0	.0	.5	.0	3	.0	.0	.0	.0	.2	.0	.0	1	12
17-19	.0	.0	.0	.2	.0	.0	1	.0	.0	.0	.0	.2	.0	.0	1	2
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.4	.0	.0	2	2
23-25	.0	.0	.0	.0	.2	.0	1	.0	.0	.2	.2	.5	.2	.0	6	8
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	0	22	50	18	6	0	96	0	24	55	23	10	1	113	560	
PCT	.0	3.9	8.9	3.2	1.1	.0	17.1	.0	4.3	9.8	4.1	1.8	.2	20.2	100.0	

DECEMBER

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

TABLE 18 (CONT)

AREA 002 BERMUDA  
30-34N 63-67W

WIND SPEED (KTS) VS SEA HEIGHT (FT)							
HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	1.4	3.7	.2	.0	.0	.0	30
1-2	.7	9.4	8.1	.0	.2	.2	105
3-4	.4	9.5	16.4	1.9	.0	.0	160
5-6	.2	4.1	14.0	2.5	.2	.0	118
7	.0	.9	4.8	3.9	.2	.0	55
8-9	.0	.2	2.1	2.3	1.4	.0	34
10-11	.0	.2	2.1	1.9	.9	.0	29
12	.0	.0	.2	1.1	.7	.0	11
13-16	.0	.4	.2	.2	1.4	.0	12
17-19	.0	.0	.0	.2	.2	.0	2
20-22	.0	.0	.0	.0	.4	.0	2
23-25	.0	.0	.2	.2	.9	.2	8
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	15	160	273	80	36	2	566
PCT	2.7	28.3	48.2	14.1	6.4	.4	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.2	6.4	14.7	8.1	1.9	.3	1.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	200	3
6-7	.0	.8	5.2	11.3	6.6	3.9	1.9	1.2	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	186	6
8-9	.0	.0	1.4	3.6	6.3	4.6	3.2	.7	1.7	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	128	7
10-11	.0	.0	.5	.8	2.2	.7	1.0	.7	.5	.3	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	44	9
12-13	.0	.0	.3	.0	.2	.2	.2	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	9
>13	.0	.0	.0	.0	.2	.0	.2	.0	.2	.3	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	9	18
INDET	.7	.2	.2	.0	.0	.5	.3	.3	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	7
TOTAL	11	44	132	141	102	60	46	18	20	4	4	8	1	0	0	0	0	0	0	0	591	6
PCT	1.9	7.4	22.3	23.9	17.3	10.2	7.8	3.0	3.4	.7	.7	1.4	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1943-1968  
(OVER-ALL) 1856-1968

ANNUAL

TABLE 1

AREA 002 BERMUDA  
30-34N 63-67W

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCFN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
N	.1	.1	.1	.0	.0	.0	.0	80	*	*	*	*	23	1596	.3	
NNE	.1	.1	.1	.0	.0	.0	.0	73	*	*	*	.0	10	1112	.2	
NE	.2	.1	.1	.0	.0	.0	.0	89	*	*	*	.0	25	1460	.3	
ENE	.1	.1	.1	.0	.0	.0	.0	82	*	*	*	*	13	1124	.3	
E	.2	.1	.1	.0	.0	.0	.0	111	*	*	*	*	25	1816	.4	
ESE	.1	.1	*	.0	.0	.0	.0	84	*	.0	*	.0	21	1104	.3	
SE	.2	.2	.1	.0	.0	.0	.0	138	.1	*	*	*	27	1675	.5	
SSE	.2	.1	.1	.0	.0	.0	.0	112	.1	*	*	.0	39	1537	.4	
S	.4	.3	.1	.0	.0	.0	*	260	.2	*	.1	*	114	3202	.9	
SSW	.3	.1	.1	.0	.0	.0	.0	160	.2	*	.1	*	76	2249	.5	
SW	.4	.3	.1	.0	.0	.0	*	243	.2	*	.2	*	125	3127	.8	
WSW	.2	.2	.1	.0	.0	.0	.0	147	.1	*	.1	*	89	2123	.5	
W	.3	.2	.1	.0	.0	.0	*	178	.1	*	.1	*	82	2583	.6	
WNW	.1	.1	.1	.0	.0	.0	.0	98	*	*	*	*	31	1655	.3	
NW	.1	.2	.1	.0	.0	.0	*	111	.1	*	.1	*	37	1935	.4	
NNW	.1	.1	*	.0	.0	.0	.0	72	*	*	*	.0	20	1338	.2	
VAR	*	*	*	.0	.0	.0	.0	9	.0	.0	.0	.0	0	62	*	
CALM	*	*	*	.0	.0	.0	.0	20	*	*	.1	.0	31	676	.1	
TOT	984	708	372	0	0	0	5	2069	394	46	328	20	788	30374	6.8	
PCT	3.2	2.3	1.2	.0	.0	.0	*	6.8	1.3	.2	1.1	.1	2.6	100.0	6.8	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCFN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
00003	1.0	.7	.4	.0	.0	.0	*	656	.5	*	.3	*	268	8527	2.1	
06009	.7	.4	.3	.0	.0	.0	.0	443	.7	*	.2	*	303	7701	1.4	
12015	1.0	.8	.3	.0	.0	.0	*	646	.1	*	.3	*	118	7375	2.1	
18021	.6	.3	.2	.0	.0	.0	.0	343	*	*	.3	*	103	7091	1.1	
TOT	992	716	375	0	0	0	5	2088	397	46	329	20	792	30694	6.8	
PCT	3.2	2.3	1.2	.0	.0	.0	*	6.8	1.3	.1	1.1	.1	2.6	100.0	6.8	



## ANNUAL

PERIOD: (PRIMARY) 1943-1968  
(OVER-ALL) 1856-1968AREA 002 BERMUDA  
30-34N 63-67W

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.5	2.0	2.2	.6	.1	.0	2051	5.3	12.9	5.4	5.6	4.8	4.4	5.7	5.3	5.3	5.7
NNE	.2	1.5	1.5	.4	.1	*	1400	3.7	12.9	3.7	3.9	3.5	3.2	3.7	2.5	3.8	2.6
NE	.4	2.1	2.0	.4	*	*	1934	5.0	12.1	5.3	3.2	4.8	5.8	5.1	5.6	4.8	4.4
ENE	.2	1.6	1.6	.3	*	*	1430	3.7	12.4	3.6	3.2	3.7	3.6	3.9	3.3	3.8	3.6
E	.6	2.9	2.1	.3	*	*	2289	6.0	10.9	6.1	5.9	6.2	7.3	5.9	7.3	5.7	3.1
ESE	.3	1.9	1.3	.2	*	.0	1408	3.7	10.9	3.6	3.2	3.4	2.2	3.9	5.6	3.7	4.7
SE	.5	2.8	1.9	.3	*	*	2144	5.6	10.7	6.0	4.9	5.3	4.1	5.5	4.0	5.8	3.6
SSE	.3	2.3	2.0	.4	*	*	1918	5.0	11.7	4.7	7.3	5.3	5.6	5.0	6.3	5.0	4.4
S	.7	4.5	4.2	.9	.1	*	3970	10.4	12.4	9.6	11.0	11.3	10.7	10.4	9.3	10.6	11.7
SSW	.4	2.8	3.1	.8	.1	*	2779	7.2	13.3	7.2	5.9	7.9	6.6	6.9	7.1	7.4	9.1
SW	.6	4.1	4.5	1.0	.1	*	3981	10.4	13.0	10.5	7.6	10.9	8.3	10.4	10.4	10.1	8.9
WSW	.4	2.5	3.0	.8	.1	*	2593	6.8	13.7	6.8	5.1	6.9	6.3	6.5	7.6	6.9	7.3
W	.7	3.1	3.4	1.2	.4	*	3356	8.8	14.4	9.1	9.0	8.0	7.5	8.8	8.3	9.0	7.3
WNW	.2	1.5	2.0	1.1	.4	*	2015	5.3	17.0	5.3	4.2	5.0	7.8	5.1	6.1	5.3	7.6
NW	.3	2.0	2.6	1.2	.3	*	2505	6.5	15.7	6.6	7.8	5.8	8.0	6.7	6.6	6.7	7.6
NNW	.2	1.3	1.9	.6	.1	*	1610	4.2	14.9	3.8	6.6	4.2	4.9	4.3	3.8	4.3	5.7
VAR	.1	*	.0	.0	.0	.0	62	.2	2.7	.1	1.0	.2	.7	.1	.3	.2	.8
CALM	2.3						899	2.3	.0	2.6	4.6	2.8	3.2	2.2	.8	1.5	1.8
TOT	3464	14897	15096	4084	733	70	38344	100.0	12.8	11775	409	7436	412	10670	396	6862	384
PCT	9.0	38.9	39.4	10.7	1.9	.2	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	2.1	4.4	2.1	.4	*	3451	9.0	12.9	9.2	9.5	8.3	7.5	9.4	7.8	9.0	8.3
NE	2.1	4.6	1.9	.2	*	3364	8.8	12.2	8.9	6.4	8.5	9.5	9.0	8.8	8.6	8.1
E	2.8	5.1	1.6	.1	*	3697	9.6	10.9	9.7	9.0	9.6	9.5	9.8	12.9	9.3	7.8
SE	2.9	5.8	1.6	.3	*	4062	10.6	11.2	10.6	12.2	10.6	9.7	10.5	10.4	10.8	8.1
S	3.8	9.3	3.7	.7	.1	6749	17.6	12.8	16.7	16.9	19.1	17.2	17.2	16.4	18.0	20.8
SW	3.3	8.9	4.2	.7	.1	5574	17.1	13.2	17.3	12.7	17.7	14.6	16.9	17.9	17.0	16.1
WSW	2.8	5.9	3.6	1.5	.3	5371	14.0	15.4	14.4	13.2	13.1	15.3	13.9	14.4	14.3	14.8
W	1.9	4.6	3.2	.9	.1	4115	10.7	15.4	10.4	14.4	10.0	12.9	11.0	10.4	11.1	13.3
VAR	.2	.0	.0	.0	.0	62	.2	2.7	.1	1.0	.2	.7	.1	.3	.2	.8
CALM	2.3					899	2.3	.0	2.6	4.6	2.8	3.2	2.2	.8	1.5	1.8
TOT	9231	18629	8419	1844	221	38344	100.0	12.8	11775	409	7436	412	10670	396	6862	384
PCT	24.1	48.6	22.0	4.8	.6	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

PERIOD: (FRIMARY) 1943-1968  
(OVER-ALL) 1856-1968

ANNUAL

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00003	2.3	13.1	11.7	3.2	.5	.1	*	.9	12.2	31.8	12184
06009	1.0	7.9	8.5	2.1	.4	*	.1	.6	12.9	20.5	7848
12015	2.5	11.2	10.7	3.1	.6	*	*	.6	12.5	28.9	11066
18021	.7	6.6	8.4	2.3	.4	*	*	.3	14.0	18.9	7246
TOT	2519	14881	15096	4084	733	70	62	899	12.8		38344
PCT	6.6	38.8	39.4	10.7	1.9	.2	.2	2.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION					MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	
N	1.2	1.2	1.9	1.1	1469	4.9
NNE	.8	.9	1.1	.7	973	4.8
NE	1.2	1.2	1.4	.9	1302	4.6
ENE	1.0	.9	1.2	.7	1031	4.5
E	1.8	1.6	1.6	1.1	1674	4.3
ESE	1.0	1.0	1.1	.7	1025	4.5
SE	1.5	1.2	1.6	1.1	1498	4.5
SSE	1.3	1.2	1.5	1.1	1398	4.8
S	2.5	2.2	3.4	2.4	2887	4.8
SSW	1.8	1.5	2.5	1.6	2039	4.8
SW	2.5	2.3	3.2	2.1	2754	4.7
WSW	1.7	1.6	2.3	1.4	1915	4.7
W	2.2	2.1	2.7	1.5	2316	4.6
WNW	1.1	1.3	2.2	.9	1503	4.8
NW	1.3	1.6	2.4	1.1	1761	4.8
NNW	1.0	1.1	1.7	.7	1236	4.7
VAR	.1	*	.1	*	55	4.6
CALM	1.0	.6	.4	.2	589	3.1
TOT	6872	6395	8879	5279	27425	4.6
PCT	25.1	23.3	32.4	19.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

WIND DIR	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION											NH <5/8 ANY HGT	TOTAL OBS
	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+			
N	*	*	.1	.4	.9	.6	.2	.1	*	*	*	3.0	1469
NNE	*	*	.1	.2	.6	.3	.1	*	*	*	*	2.2	973
NE	*	*	.1	.3	.6	.4	.2	*	*	*	*	3.1	1302
ENE	*	*	.1	.2	.4	.3	.1	*	*	*	*	2.6	1031
E	*	*	.1	.4	.5	.5	.1	*	.1	*	*	4.4	1674
ESE	*	*	*	.1	.4	.3	.1	*	*	*	*	2.6	1025
SE	*	*	.1	.4	.5	.4	.1	*	.1	*	*	3.8	1498
SSE	*	*	.1	.3	.5	.4	.1	*	*	*	*	3.5	1398
S	.1	*	.2	.7	1.4	.7	.3	.1	.1	.1	.1	6.9	2887
SSW	*	*	.1	.5	.8	.6	.2	.1	*	.1	.1	5.0	2039
SW	.1	*	.2	.7	1.1	.7	.3	.1	.1	.1	.1	6.8	2754
WSW	*	*	.1	.5	.9	.5	.2	*	.1	*	*	4.6	1915
W	*	*	.1	.5	1.1	.8	.2	*	*	*	.1	5.6	2316
WNW	*	*	.1	.4	.9	.6	.1	*	*	*	*	3.2	1503
NW	*	*	.1	.5	1.0	.8	.2	*	*	*	*	3.7	1761
NNW	*	*	*	.3	.6	.6	.1	*	*	*	*	2.7	1236
VAR	.0	.0	.0	.0	*	*	*	*	.0	*	*	.1	55
CALM	.0	.0	*	*	.1	.1	*	*	*	*	*	1.9	589
TOT	109	61	403	1788	3388	2354	741	189	181	173	18038	2 27425	
PCT	.4	.2	1.5	6.5	12.4	8.6	2.7	.7	.7	.6	65.8	2 100.0	

PERIOD: (PRIMARY) 1943-1968  
(OVER-ALL) 1856-1968

ANNUAL

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	1.0	1.3	1.3	1.3	1.3	1.3	1.3
= OR >5000	1.5	1.9	2.0	2.0	2.0	2.0	2.0
= OR >3500	3.6	4.6	4.7	4.7	4.7	4.7	4.7
= OR >2000	9.7	13.0	13.2	13.3	13.3	13.3	13.3
= OR >1000	18.7	24.8	25.5	25.6	25.6	25.6	25.6
= OR >600	23.1	31.0	31.9	32.0	32.1	32.1	32.1
= OR >300	23.8	32.3	33.3	33.5	33.5	33.6	33.6
= OR >150	23.9	32.4	33.5	33.7	33.7	33.8	33.8
= OR > 0	24.0	32.7	33.8	34.0	34.1	34.2	34.2
TOTAL	6598	8981	9271	9347	9369	9386	9389

TOTAL NUMBER OF OBS: 27468

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
8.7	12.3	19.7	14.9	10.5	7.5	9.0	6.2	11.0	.3	29491

ANNUAL

PERIOD: (PRIMARY) 1943-1968  
(OVER-ALL) 1856-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	*	*	.0	*	.0	*	*	*	.0	.0	.0	9	*
	NO PCP	*	.0	.0	*	*	*	*	.0	*	.0	*	.0	*	*	*	.0	.0	.0	17	.1
	TOTAL	1	0	0	2	1	1	3	1	3	0	6	0	4	2	2	0	0	0	26	.1
1/2<1	PCP	.0	.0	.0	*	.0	.0	*	*	*	*	*	*	*	.0	.0	.0	.0	.0	14	.1
	NO PCP	.0	.0	.0	.0	.0	.0	*	*	*	*	.0	*	*	*	.0	.0	.0	.0	11	*
	TOTAL	0	0	0	1	0	0	2	2	2	7	2	3	4	2	0	0	0	0	25	.1
1<2	PCP	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.0	.0	55	.2
	NO PCP	.0	.0	.0	.0	*	*	*	*	*	*	*	*	*	*	.0	*	.0	.0	26	.1
	TOTAL	5	1	5	2	6	4	3	4	11	6	13	5	8	2	3	3	0	0	81	.3
2<5	PCP	*	*	*	*	*	*	*	*	.1	.1	.1	.1	*	*	*	*	.0	.0	178	.7
	NO PCP	*	*	*	*	*	*	*	*	.1	.1	.1	.1	.1	*	*	*	.0	*	181	.7
	TOTAL	12	11	12	12	16	17	22	19	48	40	34	33	34	15	16	14	0	4	359	1.4
5<10	PCP	.1	.1	.1	.1	.1	.1	.2	.2	.3	.2	.3	.2	.2	.1	.1	.1	*	*	648	2.4
	NO PCP	.7	.4	.5	.4	.6	.4	.5	.7	1.5	1.2	1.3	1.0	1.2	.8	.9	.6	*	.2	3404	12.8
	TOTAL	210	120	149	125	178	122	167	231	490	377	422	324	365	263	281	169	6	53	4052	15.3
10<>	PCP	.1	*	.1	.1	.1	.1	.1	.1	.2	.1	.2	.1	.2	.1	.1	.1	*	*	473	1.8
	NO PCP	4.4	3.0	4.0	3.1	5.2	3.0	4.6	4.0	8.3	5.8	8.1	5.5	6.7	4.3	5.2	3.8	.2	2.0	21551	81.1
	TOTAL	1193	812	1092	843	1398	824	1248	1092	2254	1567	2207	1493	1832	1178	1400	1021	49	521	22024	82.9
TOTAL PCT	1421	944	1258	985	1599	968	1445	1349	2808	1997	2684	1858	2247	1462	1702	1207	55	578	26567	100.0	
		5.3	3.6	4.7	3.7	6.0	3.6	5.4	5.1	10.6	7.5	10.1	7.0	8.5	5.5	6.4	4.5	.2	2.2	100.0	

PERIOD: (PRIMARY) 1943-1968  
(OVER-ALL) 1856-1968

ANNUAL

TABLE 9

AREA 002 BERMUDA  
30-34N 63-67W

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	2	*
	4-10	.0	.0	.0	*	*	.0	*	.0	.0	.0	*	.0	.0	.0	*	.0	.0	.0	7	*
	11-21	.0	.0	.0	.0	.0	*	*	*	*	*	*	*	*	*	.0	.0	.0	.0	14	.1
	22&>	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.0	.0	.0	5	*
	TOTAL	1	0	0	2	2	1	3	1	3	0	7	0	4	2	2	0	0	0	28	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	*	.0	.0	.0	.0	3	*
	11-21	.0	.0	.0	*	.0	.0	*	*	.0	*	*	*	*	.0	.0	.0	.0	.0	16	.1
	22&>	.0	.0	.0	.0	.0	.0	*	.0	*	*	.0	*	.0	*	.0	.0	.0	.0	6	*
	TOTAL	0	0	0	1	0	0	2	2	2	7	2	3	4	2	0	0	0	0	25	.1
1<2	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	3	*
	4-10	*	*	.0	.0	.0	*	.0	*	.0	*	*	*	*	.0	*	*	.0	.0	15	.1
	11-21	*	.0	*	*	*	*	*	.0	*	*	*	*	*	*	.0	*	*	.0	35	.1
	22&>	.0	.0	.0	*	*	.0	*	*	*	*	*	*	*	*	*	*	.0	.0	30	.1
	TOTAL	6	1	5	2	6	4	3	4	11	6	13	5	8	2	3	4	0	0	83	.3
2<5	0-3	*	.0	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*	.0	.0	*	.0	*	10	*
	4-10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.0	*	.0	.0	52	.2
	11-21	*	*	*	*	*	*	*	*	.1	.1	.1	.1	.1	*	*	*	.0	.0	164	.6
	22&>	*	*	*	*	*	*	*	*	.1	.1	.1	*	.1	*	*	*	.0	.0	137	.5
	TOTAL	14	11	12	12	16	17	22	19	48	42	34	33	34	15	16	14	0	4	363	1.3
5<10	0-3	*	*	*	*	.1	*	*	*	*	*	*	*	*	*	*	*	*	.2	181	.7
	4-10	.2	.1	.1	.1	.1	.1	.1	.2	.4	.2	.3	.2	.2	.2	.1	.1	*	.0	786	2.9
	11-21	.4	.2	.3	.3	.4	.3	.4	.5	1.0	.7	.9	.7	.7	.4	.4	.4	.0	.0	2190	8.0
	22&>	.1	.1	.1	.1	.1	.1	.1	.1	.4	.4	.3	.3	.4	.4	.4	.1	.0	.0	1020	3.7
	TOTAL	219	122	153	132	183	125	174	238	505	382	437	339	376	268	289	173	6	56	4177	15.2
10&>	0-3	.3	.1	.2	.1	.4	.2	.3	.2	.3	.2	.3	.2	.3	.1	.1	.1	.1	1.9	1578	5.7
	4-10	1.2	.9	1.3	1.0	2.0	1.3	1.8	1.5	2.8	1.8	2.4	1.5	1.7	.8	1.1	.8	*	.0	6596	24.0
	11-21	2.4	1.7	2.3	1.9	2.7	1.6	2.4	2.1	4.7	3.4	4.8	3.2	3.7	2.2	2.8	2.2	.0	.0	12102	44.1
	22&>	.6	.3	.3	.2	.3	.1	.2	.3	.6	.5	.8	.7	1.2	1.3	1.2	.7	.0	.0	2516	9.2
	TOTAL	1230	837	1136	883	1469	875	1296	1133	2322	1615	2266	1539	1897	1216	1455	1044	49	530	22792	83.0
TOTAL PCT	1470	971	1306	1032	1676	1022	1500	1397	2891	2052	2759	1919	2323	1505	1765	1235	55	590	27468	100.0	
		5.4	3.5	4.8	3.8	6.1	3.7	5.5	5.1	10.5	7.5	10.0	7.0	8.5	5.5	6.4	4.5	.2	2.1	100.0	

## ANNUAL

PERIOD: (PRIMARY) 1943-1968  
(OVER-ALL) 1856-1968AREA 002 BERMUDA  
30-34N 63-67W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND  
OCCURRENCE OF NH <5/8 BY HOUR

HR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.1	*	.4	1.7	3.1	2.1	.7	.1	.2	.2	2509	17.9	7692
06&09	.1	*	.3	1.5	2.9	1.8	.6	.2	.1	.1	2228	17.2	7186
12&15	.1	.1	.4	1.5	3.0	2.2	.7	.1	.2	.1	2402	15.9	7011
18&21	.1	*	.3	1.5	2.9	2.1	.6	.2	.2	.1	2313	16.3	7012
TOT PCT	109 .4	62 .2	404 1.4	1794 6.2	3409 11.8	2378 8.2	747 2.6	194 .7	182 .6	173 .6	9452 32.7	19449 67.3	28901 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	*	*	.1	.3	4.2	21.7	7305
06&09	*	*	.1	.3	3.9	20.7	6909
12&15	*	*	.1	.4	3.6	19.9	6669
18&21	*	*	.1	.3	3.4	20.7	6781
TOT PCT	28 .1	25 .1	84 .3	365 1.3	4192 15.2	22970 83.0	27664 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND  
CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HR (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ EOR5+	NH <5/8 ANY HGT	TOTAL OBS
00&03	*	*	.2	8.9	17.4	7305
06&09	.0	*	.1	7.9	16.9	6909
12&15	.0	*	.2	8.4	15.4	6669
18&21	.0	*	.2	8.1	16.2	6781
TOT PCT	1 *	19 .1	171 .6	9242 33.4	18233 65.9	27664 100.0

ANNUAL

PERIOD: (PRIMARY) 1943-1968  
(OVER-ALL) 1856-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
93/99	.0	.0	.0	*	*	.0	.0	.0	3	*
90/94	.0	*	*	*	.1	*	*	.0	41	.1
85/89	.0	*	*	.1	.5	.8	.2	.1	523	1.7
80/84	.0	*	*	.1	1.4	6.6	5.9	1.8	4790	15.8
75/79	*	*	.1	.6	1.8	5.8	8.0	5.1	6462	21.4
70/74	*	*	.1	.9	3.3	4.4	6.1	6.4	6397	21.1
65/69	*	*	.2	1.6	4.1	5.5	6.2	5.4	6976	23.1
60/64	*	*	.3	1.7	4.5	2.9	2.0	1.6	3904	12.9
55/59	.0	*	*	.4	1.0	1.0	.7	.3	1027	3.4
50/54	.0	.0	*	*	.1	.1	.1	.1	115	.4
45/49	.0	.0	.0	.0	*	*	*	*	7	*
40/44	.0	.0	.0	.0	*	.0	*	.0	2	*
35/39	.0	.0	.0	.0	*	.0	.0	.0	1	*
TOTAL	8	15	219	1633	5069	8165	8866	6273	30248	100.0
PCT	*	*	.7	5.4	16.8	27.0	29.3	20.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										
N	NE	E	SE	S	SW	W	NW	VAR	CALM	
.0	*	.0	.0	*	*	.0	.0	.0	.0	
*	*	*	*	*	*	*	*	.0	*	
.1	.1	.2	.2	.4	.4	.2	*	.0	.1	
.5	.9	1.8	2.4	4.0	3.7	1.6	.5	*	.5	
1.3	2.0	2.6	3.0	5.0	3.9	1.7	1.1	*	.7	
1.8	2.4	2.2	2.4	4.1	3.9	2.5	1.5	*	.4	
2.3	2.0	2.0	2.0	3.6	3.9	4.1	2.8	*	.4	
2.1	1.1	.7	.6	.7	1.1	3.2	3.2	*	.3	
.8	.2	.1	*	*	.1	.9	1.2	*	*	
.1	*	.0	*	*	*	.1	.1	.0	.0	
.0	*	.0	*	.0	.0	.0	*	.0	*	
.0	.0	.0	.0	.0	.0	*	.0	.0	.0	
*	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2695	2618	2923	3216	5399	5156	4289	3181	62	709	
8.9	8.7	9.7	10.6	17.8	17.0	14.2	10.5	.2	2.3	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	91	86	83	72	60	55	36	71.5	12120
06&09	94	83	81	71	59	55	43	70.8	7784
12&15	94	86	83	71	59	55	38	71.6	10996
18&21	96	90	86	74	62	57	51	73.6	7139
TOT	96	86	82	71	59	54	36	71.8	38039

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	*	1.5	4.7	8.3	9.1	6.9	7.9	9305		
06&09	*	1.2	3.4	5.2	7.1	4.9	7.9	6676		
12&15	*	1.5	4.2	7.5	8.3	6.3	7.9	8492		
18&21	*	2.1	4.5	6.0	4.8	2.6	7.5	6071		
TOT	8	1891	5112	8263	8952	6318	79	30544		

PERIOD: (PRIMARY) 1943-1968  
(OVER-ALL) 1856-1968

ANNUAL

TABLE 17

AREA 002 BERMUDA  
30-34N 63-67W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	93 96	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	*	*	*	.0	.0	8	.0	*
11/13	.0	.0	.0	.0	*	*	*	*	.1	*	*	*	40	.0	.2
9/10	.0	.0	.0	.0	*	*	*	.1	.1	.1	*	*	89	.0	.3
7/8	.0	.0	.0	.0	*	*	.1	.2	.2	.1	.1	.0	210	*	.8
6	.0	.0	.0	.0	*	.1	.2	.2	.1	.2	*	.0	194	*	.7
5	.0	.0	.0	*	*	.2	.3	.3	.2	.2	*	.0	332	*	1.2
4	.0	.0	.0	*	.1	.5	.4	.4	.4	.2	*	.0	531	*	2.0
3	.0	.0	*	*	.2	.6	.6	.5	.5	.2	*	.0	735	*	2.7
2	.0	.0	*	*	.6	1.4	.9	1.0	1.0	.2	.0	.0	1388	*	5.2
1	.0	.0	.0	.1	1.0	1.8	1.4	1.6	1.3	.1	.0	.0	1948	*	7.3
0	.0	.0	*	.2	2.1	2.7	2.2	2.7	2.0	.1	.0	.0	3224	*	12.1
-1	.0	.0	*	.4	2.0	2.6	2.0	2.9	1.6	*	*	.0	3085	*	11.6
-2	.0	.0	*	.8	2.9	2.3	2.0	3.0	1.3	*	*	.0	3293	*	12.3
-3	.0	.0	*	1.1	2.1	2.0	1.4	2.3	.7	*	.0	.0	2578	*	9.7
-4	.0	*	.2	1.7	2.2	1.6	1.4	1.8	.4	.0	.0	.0	2464	*	9.2
-5	.0	*	.4	1.6	1.7	1.1	1.0	1.1	.2	*	.0	.0	1833	*	6.9
-6	*	*	.5	1.6	1.1	.7	.7	.4	*	*	.0	.0	1357	.0	5.1
-7/-8	*	*	1.2	2.1	1.3	.8	.6	.3	*	.0	.0	.0	1697	*	6.4
-9/-10	*	.2	1.1	1.0	.5	.2	.2	*	*	.0	.0	.0	890	*	3.3
-11/-13	*	.4	.8	.5	.2	.1	*	*	.0	.0	.0	.0	526	.0	2.0
-14/-16	.1	.2	.2	.1	*	*	.0	.0	.0	.0	.0	.0	175	.0	.7
-17/-19	*	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	34	.0	.1
-20/-22	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
-23/-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0
TOTAL	47	251	1172	3001	4829	4999	4142	5028	2689	423	48	3	26632	3826594	
PCT	.2	.9	4.4	11.3	18.1	18.8	15.6	18.9	10.1	1.6	.2	*	100.0	.1	99.9



PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

ANNUAL  
TABLE 18

AREA 002  
30-34N  
BERMUDA  
63-67W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						TOTAL	NE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.2	.5	*	*	.0	.0	64	.2	.4	.1	.0	.0	.0	55
1-2	.1	1.5	.8	*	.0	.0	196	.1	1.5	.7	*	*	*	179
3-4	*	1.0	1.6	.2	*	.0	231	*	1.0	1.4	.1	.0	*	201
5-6	.0	.5	1.4	.3	*	.0	172	.0	.2	1.2	.1	.0	.0	124
7	*	.2	.6	.3	*	.0	86	.0	*	.6	.2	.0	.0	64
8-9	.0	.1	.3	.2	.1	.0	50	.0	.0	.3	.2	.0	.0	37
10-11	.0	.0	.1	.2	*	.0	17	.0	.0	.1	.1	*	.0	22
12	.0	.0	.1	.2	*	.0	26	.0	.0	.1	*	*	*	8
13-16	.0	.0	.0	.1	.1	.0	9	.0	*	*	*	.0	.0	4
17-19	.0	.0	.0	.0	.1	.0	4	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.1	.0	4	.0	.0	*	.0	.0	.0	1
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	27	302	388	117	25	0	859	27	252	352	57	4	3	695
PCT	.3	3.8	4.9	1.5	.3	.0	10.7	.3	3.2	4.4	.7	.1	*	8.7

HGT	E						TOTAL	SE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.2	.9	.1	*	.0	.0	88	.2	.8	.1	.0	.0	.0	79
1-2	.2	2.5	.9	.0	.0	.0	286	.2	2.3	1.1	*	.0	.0	284
3-4	*	1.5	1.8	.1	.0	.0	273	*	1.7	1.6	.1	.0	.0	271
5-6	.0	.4	.9	.1	.0	.0	104	.0	.3	1.2	.1	.0	.0	129
7	.0	.1	.4	.1	.0	.0	44	.0	*	.3	.2	.0	.0	41
8-9	.0	*	.2	.1	*	.0	23	.0	.1	.1	.1	*	.0	21
10-11	.0	*	.1	.1	*	.0	18	.0	.0	*	*	*	.0	7
12	.0	.0	.0	*	.0	.0	1	.0	.0	.0	.1	.0	.0	6
13-16	.0	.0	.0	.0	*	.0	1	.0	.0	.0	.1	.1	*	11
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	*	.0	1	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	*	.0	.0	1	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	32	427	332	44	5	0	840	29	409	350	52	7	2	849
PCT	.4	5.3	4.2	.6	.1	.0	10.5	.4	5.1	4.4	.7	.1	*	10.6

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

ANNUAL  
TABLE 18

AREA 002 BERMUDA  
30-34N 63-67W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						TOTAL	SW						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.1	1.1	.1	.0	.0	.0	104	.3	1.0	.1	.0	.0	.0	110
1-2	.1	3.4	1.7	*	.0	.0	418	.1	2.1	1.3	.1	.0	.0	283
3-4	.0	2.2	3.7	.4	*	.0	508	*	1.8	3.1	.3	.0	.0	414
5-6	*	.5	2.6	.5	*	.0	294	.0	.3	2.0	.4	.0	.0	213
7	.0	*	.9	.6	*	.0	122	.0	.1	.9	.5	*	.0	122
8-9	.0	*	.2	.3	.1	.0	52	.0	*	.3	.3	.1	.0	49
10-11	.0	.0	.1	.2	.1	.0	25	.0	.0	*	.2	.1	.0	24
12	.0	*	.0	.1	*	.0	9	.0	.0	*	.1	.1	.0	10
13-16	.0	.0	*	*	.1	*	10	.0	.0	.0	.1	.1	.1	19
17-19	.0	.0	.0	*	.0	.0	1	.0	.0	*	.0	*	.0	4
20-22	.0	.0	.0	.0	*	.0	1	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	*	.0	1	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	*	.0	2
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	22	579	744	167	32	1	1545	32	424	613	149	28	4	1250
PCT	.3	7.2	9.3	2.1	.4	*	19.3	.4	5.3	7.7	1.9	.4	.1	15.6

HGT	W						TOTAL	NW						TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+		
<1	.2	.6	*	.0	.0	.0	61	.2	.4	*	.0	.0	.0	48	609
1-2	.1	1.5	1.1	.1	.0	.0	223	.1	1.2	.5	*	.0	.0	147	2016
3-4	*	1.0	2.0	.3	.1	.0	276	.0	.8	1.5	.3	*	.0	208	2382
5-6	.0	.3	1.4	.5	.1	.0	180	.0	.3	1.0	.4	.1	.0	136	1352
7	.0	.1	.8	.5	.1	.0	127	.0	.1	1.0	.5	*	.0	130	736
8-9	.0	*	.5	.4	.1	.0	88	.0	*	.3	.3	*	.0	46	366
10-11	.0	*	.1	.3	.1	.0	39	.0	*	.2	.3	*	.0	44	196
12	.0	.0	*	.2	.1	*	25	.0	.0	.1	.2	*	.0	30	115
13-16	.0	.0	.1	.3	.2	*	49	.0	.0	*	.2	.1	*	27	130
17-19	.0	.0	*	.1	*	.0	12	.0	.0	.0	.1	.1	.0	9	30
20-22	.0	.0	.0	.0	.1	.0	7	.0	.0	*	*	.1	.0	9	18
23-25	.0	.0	.0	.0	.1	.0	6	.0	.0	*	*	.1	*	8	21
26-32	.0	.0	.0	.1	*	*	10	.0	.0	*	.0	.0	*	4	16
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.1	.0	4	.0	.0	.0	.0	.0	.0	0	4
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	25	277	493	225	81	6	1107	19	224	380	179	39	5	846	7991
PCT	.3	3.5	6.2	2.8	1.0	.1	13.9	.2	2.8	4.8	2.2	.5	.1	10.6	100.0

ANNUAL

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)							
HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	3.7	5.7	.4	*	.0	.0	755
1-2	1.1	16.1	7.9	.2	.0	.0	1928
3-4	.2	10.8	16.3	1.7	.1	*	2232
5-6	.1	2.5	11.2	2.3	.2	.0	1237
7	*	.6	5.4	2.7	.2	.0	681
8-9	.0	.2	2.1	1.7	.3	.0	332
10-11	.0	.1	.5	1.4	.3	.0	167
12	.0	*	.3	.8	.2	*	104
13-16	.0	.0	.1	.8	.6	.2	118
17-19	.0	.0	*	.2	.2	.0	28
20-22	.0	.0	*	*	.2	.0	16
23-25	.0	.0	*	*	.1	.0	13
26-32	.0	.0	*	.1	.1	.1	16
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.1	.0	4
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	390	2748	3379	910	185	19	7631
PCT	5.1	36.0	44.3	11.9	2.4	.2	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT		
<6	2.8	13.6	16.8	6.8	2.3	.9	.5	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3770	3	
6-7	.1	1.5	6.7	8.4	5.1	2.1	.9	.5	.4	.1	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	2235	5
8-9	.1	.4	2.1	2.6	3.7	2.2	1.8	.9	1.0	.2	.1	.1	*	.0	*	.0	.0	.0	.0	.0	.0	1295	7
10-11	*	.3	.7	1.0	1.1	1.0	.8	.6	.7	.2	.2	.1	.2	.0	*	.0	.0	.0	.0	.0	.0	588	9
12-13	*	.1	.3	.2	.2	.3	.3	.3	.2	.1	*	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	180	9
>13	.1	.1	.1	.2	.1	.2	.1	.1	.1	*	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	106	10
INDET	2.8	.6	.6	.2	.2	.1	.1	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	398	1
TOTAL	508	1422	2330	1653	1091	582	386	224	223	56	35	24	33	0	5	0	0	0	0	0	0	8572	5
PCT	5.9	16.6	27.2	19.3	12.7	6.8	4.5	2.6	2.6	.7	.4	.3	.4	.0	.1	.0	.0	.0	.0	.0	100.0		

PERIOD: (PRIMARY) 1944-1968  
(OVER-ALL) 1866-1968

AREA 002 BERMUDA  
30-34N 63-67W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	1	*
91/92	.0	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.0	4	*
89/90	.0	.0	.0	.0	.0	*	.1	.6	.1	.0	.0	.0	21	.1
87/88	.0	.0	.0	.0	.0	.1	.5	1.2	.6	.1	.0	.0	63	.2
85/86	.0	.0	.0	.0	.0	.7	4.1	10.7	4.7	.3	*	.0	532	1.6
83/84	.0	*	.0	.0	.1	1.1	13.1	30.8	20.6	4.4	.3	.0	1834	5.6
81/82	.1	.1	.0	.0	.3	5.5	28.4	36.8	38.1	13.8	1.4	.1	3281	9.9
79/80	.1	*	.1	.1	.3	13.4	31.9	15.8	24.4	26.6	4.1	.3	3138	9.5
77/78	.3	.2	.2	.3	2.4	23.9	16.0	3.0	8.3	31.0	14.2	2.4	2769	8.4
75/76	.9	.5	.7	.7	8.8	27.4	3.8	.4	2.3	17.1	28.1	8.7	2726	8.3
73/74	4.7	1.6	1.5	4.2	19.5	18.1	1.0	.2	.3	5.9	28.7	21.8	2988	9.1
71/72	18.5	7.3	5.6	10.9	28.5	6.9	.6	.1	.3	.4	15.8	30.7	3542	10.7
69/70	29.7	20.3	17.4	26.2	24.7	2.3	.2	.2	.2	.1	4.6	25.1	4263	12.9
67/68	27.6	34.2	32.9	33.1	12.0	.4	.2	.0	.1	.4	1.6	6.7	4204	12.7
65/66	9.9	21.8	28.1	18.0	2.7	*	.0	.0	.0	.0	.7	2.7	2353	7.1
63/64	6.6	10.3	10.6	5.3	.5	.0	.0	.0	.0	.0	.3	1.5	996	3.0
61/62	1.1	2.0	2.2	.8	.1	.0	.0	.0	.0	.0	.1	.1	180	.5
59/60	.3	1.2	.6	.2	*	.0	.0	.0	.0	.0	.0	.0	64	.2
57/58	.0	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	18	.1
55/56	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	*
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	3149	2664	2909	2622	2942	2558	2812	2524	2561	2741	2881	2617	32980	100.0
MEAN	68.8	67.3	67.1	68.3	71.4	76.2	80.3	82.2	81.1	78.2	74.3	71.5	73.7	

PERIOD: (PRIMARY) 1944-1968  
 (OVER-ALL) 1866-1968

AREA 002 BERMUDA  
 30-34N 63-67W

TABLE 21  
 PRESSURE (MB)

MO	AVERAGE BY HOUR (GMT)									TOTAL OBS	EXTREMES							
	0000	0300	0600	0900	1200	1500	1800	2100	MEAN		MAX	YEAR	DA	HR	MIN	YEAR	DA	HR
JAN	1019	1022	1019	1020	1019	1023	1019	1020	1019	3242	1039	1962	23	06	986	1958	27	18
FEB	1019	1019	1018	1019	1019	1021	1018	1019	1019	2625	1037	1953	21	00	969	1944	04	12
MAR	1018	1018	1017	1016	1018	1018	1017	1015	1018	2916	1036	1944	12	00	984	1962	08	06
APR	1019	1019	1018	1018	1019	1018	1019	1019	1019	2760	1044	1960	19	12	978	1961	30	06
MAY	1019	1019	1019	1018	1019	1020	1019	1018	1019	3067	1041	1944	20	12	976	1960	30	18
JUN	1019	1019	1019	1018	1020	1022	1020	1021	1020	2619	1035	1942	26	12	995	1944	05	12
JUL	1021	1022	1021	1022	1022	1023	1021	1021	1021	2890	1040	1959	05	18	995	1965	29	00
AUG	1020	1021	1019	1020	1020	1021	1020	1020	1020	2712	1039	1959	16	06	1001	1942	26	12
SEP	1018	1018	1018	1017	1015	1017	1018	1016	1018	2677	1033	1949	17	12	967	1922	21	12
OCT	1017	1017	1017	1018	1017	1019	1016	1018	1017	2865	1030	1964	28	00	976	1960	14	00
NOV	1017	1018	1018	1017	1017	1018	1017	1016	1017	2973	1040	1958	16	12	993	1966	25	21
DEC	1019	1018	1018	1016	1019	1019	1018	1017	1018	2597	1040	1958	28	12	971	1955	16	12
ANN	1019	1020	1018	1018	1019	1020	1019	1018	1019	33943								
OBS	9707	409	7201	411	8810	393	6628	384										

PERCENTILES

MO	1%	5%	25%	50%	75%	95%	99%
JAN	996	1004	1015	1021	1026	1032	1036
FEB	997	1006	1016	1022	1027	1033	1037
MAR	994	1003	1013	1019	1025	1031	1035
APR	1000	1006	1014	1019	1024	1029	1034
MAY	1004	1009	1015	1019	1022	1027	1032
JUN	1004	1010	1017	1021	1024	1028	1031
JUL	1008	1015	1020	1023	1025	1028	1031
AUG	1008	1013	1017	1020	1023	1026	1029
SEP	1003	1011	1017	1020	1023	1027	1031
OCT	1003	1008	1014	1018	1021	1026	1029
NOV	1000	1008	1015	1019	1023	1029	1033
DEC	1001	1007	1015	1020	1025	1031	1035

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

JANUARY

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT DB	FREQ TIME
				FRZG PCPN	SNOW	OTHER FRZN PCPN				FGG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA			
N	.2	.1	*	.0	.0	.0	.0	9	.0	.0	*	.0	1	225	.3		
NNE	.1	.1	*	.0	.0	.0	.0	7	*	.0	.0	.0	1	348	.2		
NE	.1	*	*	.0	.0	.0	.0	4	*	.0	.1	.0	3	630	.1		
ENE	.0	.1	.1	.0	.0	.0	.0	7	*	.0	.1	.0	4	468	.2		
E	.1	.1	.0	.0	.0	.0	.0	5	*	.0	.1	.0	3	533	.2		
ESE	.0	.1	.0	.0	.0	.0	.0	2	.0	.0	.0	.0	0	126	.1		
SE	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	95	.0		
SSE	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	*	.0	1	49	.0		
S	*	.0	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	0	63	*		
SSW	.0	*	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	0	24	*		
SW	.0	*	.0	.0	.0	.0	.0	1	.0	.0	*	.0	1	16	*		
WSW	*	.0	*	.0	.0	.0	.0	2	.0	.0	.0	.0	0	12	.1		
W	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	26	.0		
WNW	*	.0	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	0	31	*		
NW	.1	.0	.0	.0	.0	.0	.0	2	.0	.0	.0	.0	0	64	.1		
NNW	.0	*	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	0	121	*		
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	2	.0		
CALM	.0	.0	.0	.0	.0	.0	.0	0	.0	*	.1	.0	3	95	.0		
TOT	17	19	7	0	0	0	0	43	4	1	14	0	19	2928			
PCT	.6	.6	.2	.0	.0	.0	.0	1.5	.1	*	.5	.0	.6	100.0	1.5		

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT UB	FREQ TIME
				FRZG PCPN	SNOW	OTHER FRZN PCPN				FGG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA			
00003	.1	.1	.0	.0	.0	.0	.0	6	.1	.0	.1	.0	6	680	.2		
06009	.1	.2	.1	.0	.0	.0	.0	13	.0	.0	*	.0	1	719	.4		
12015	.2	.2	.1	.0	.0	.0	.0	14	.1	*	.3	.0	12	729	.5		
18021	.1	.1	.1	.0	.0	.0	.0	10	.0	.0	*	.0	1	816	.3		
TOT	17	19	7	0	0	0	0	43	4	1	15	0	20	2944			
PCT	.6	.6	.2	.0	.0	.0	.0	1.5	.1	*	.5	.0	.7	100.0	1.5		

JANUARY

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.9	3.5	2.8	.3	*	.0	250	7.6	10.3	6.5	8.0	4.6	8.3	14.9	11.0	4.6	3.5
NNE	.4	4.0	6.0	1.1	.1	.0	384	11.6	13.4	16.1	9.0	11.7	11.1	12.6	9.0	8.8	8.1
NE	.5	6.6	11.4	3.2	.1	.0	724	21.9	14.7	25.0	18.0	25.8	25.3	19.1	14.2	20.4	18.2
ENE	.4	4.5	8.7	2.8	.1	.1	547	16.5	15.2	13.4	20.0	16.0	15.7	16.0	25.2	18.1	16.2
E	.9	7.4	8.2	1.4	*	.0	595	18.0	12.3	19.3	11.0	17.0	12.9	14.3	18.7	22.8	19.2
ESE	.2	2.2	1.8	.2	.0	.0	144	4.3	11.3	4.3	5.0	3.4	4.1	1.9	2.6	6.6	8.6
SE	.7	1.9	.9	*	.0	.0	118	3.6	8.4	3.5	2.0	3.2	3.2	2.0	3.9	5.3	4.5
SSE	.1	1.1	.4	*	.0	.0	53	1.6	9.1	1.6	1.0	1.6	.5	1.2	1.9	2.3	1.5
S	.2	1.4	.3	.1	.0	.0	68	2.1	8.2	2.4	2.0	2.2	.9	1.1	1.3	2.8	2.5
SSW	.1	.4	.2	*	.0	.0	24	.7	8.7	1.1	.0	.5	1.8	.3	.0	.5	2.0
SW	*	.4	.2	.0	.0	.0	19	.6	8.8	.6	2.0	.5	.5	.3	.0	.4	2.0
WSW	*	.3	.1	.0	.0	.0	15	.5	8.3	.3	.0	.3	.5	.5	.6	.7	.5
W	.2	.5	.2	*	.0	.0	29	.9	9.1	.2	3.0	.8	.9	.9	1.3	.8	2.0
WNW	.1	.6	.2	*	.0	.0	32	1.0	9.3	.6	2.0	1.3	.9	1.2	1.3	.8	.0
NW	.3	1.3	.4	.0	.0	.0	67	2.0	7.5	.6	3.0	2.6	2.3	3.0	2.6	1.2	3.5
NNW	.5	2.4	1.1	.1	.0	.0	135	4.1	8.8	1.3	6.0	4.8	5.1	7.6	3.9	2.2	4.5
VAR	.1	.0	.0	.0	.0	.0	2	.1	2.5	.0	.0	.2	.0	.2	.0	.0	.0
CALM	3.2						105	3.2	.0	3.2	8.0	3.5	6.0	3.0	2.6	1.8	3.0
TOT	292	1277	1422	308	10	2	3311	100.0	12.2	632	100	624	217	644	155	741	198
PCT	8.8	38.6	42.9	9.3	.3	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	4.0	10.6	4.2	.4	.0	634	19.1	12.2	22.6	17.0	16.3	19.4	27.5	20.0	13.4	11.6
NE	4.3	19.7	12.4	1.8	.1	1271	38.4	14.9	38.4	38.0	41.8	41.0	35.1	39.4	38.5	34.3
E	4.4	12.7	5.0	.2	.0	739	22.3	12.1	23.6	16.0	20.4	17.1	16.1	21.3	29.4	27.8
SE	1.9	3.1	.2	*	.0	171	5.2	8.6	5.1	3.0	4.8	3.7	3.3	5.8	7.6	6.1
S	1.3	1.2	.2	.0	.0	92	2.8	8.3	3.5	2.0	2.7	2.8	1.4	1.3	3.4	4.5
SW	.4	.5	.1	.0	.0	34	1.0	8.6	.9	2.0	.8	.9	.8	.6	1.1	2.5
W	.7	.9	.2	.0	.0	61	1.8	9.2	.8	5.0	2.1	1.8	2.2	2.6	1.6	2.0
NW	2.6	3.0	.5	.0	.0	202	6.1	8.4	1.9	9.0	7.4	7.4	10.6	6.5	3.4	8.1
VAR	.1	.0	.0	.0	.0	2	.1	2.5	.0	.0	.2	.0	.2	.0	.0	.0
CALM	3.2					105	3.2	.0	3.2	8.0	3.5	6.0	3.0	2.6	1.8	3.0
TOT	759	1714	757	79	2	3311	100.0	12.2	632	100	624	217	644	155	741	198
PCT	22.9	51.8	22.9	2.4	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	1.1	7.6	10.3	2.1	.1	.0	.0	.8	12.8	22.1	732
06&09	1.6	10.6	10.0	2.0	.1	.0	*	1.1	11.4	25.4	841
12&15	1.7	9.6	10.1	1.9	.1	*	*	.7	11.7	24.1	799
18&21	1.1	10.7	12.5	3.5	.1	*	.0	.6	12.9	28.4	939
TOT	185	1277	1422	308	10	2	2	105	12.2		3311
PCT	5.6	38.6	42.9	9.3	.3	.1	.1	3.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION					MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	
N	4.6	1.3	1.4	.5	222	2.9
NNE	6.3	2.3	2.4	.8	337	3.0
NE	12.6	4.5	2.9	.7	590	2.4
ENE	10.5	2.9	2.9	.5	479	2.6
E	11.6	3.8	2.3	.6	523	2.5
ESE	2.9	.7	.6	.1	123	2.5
SE	1.9	.6	.5	.3	94	3.1
SSE	.8	.4	.3	*	44	2.9
S	1.2	.5	.4	.1	62	3.0
SSW	.3	.2	.2	.1	22	3.3
SW	.3	*	.1	.1	15	3.1
WSW	.2	.0	.1	.2	15	4.7
W	.5	.1	.2	.1	27	3.4
WNW	.6	.1	.2	.1	31	3.3
NW	1.3	.2	.5	.3	64	3.0
NNW	2.4	.5	1.0	.3	123	2.9
VAR	.1	.0	.0	.0	2	1.0
CALM	2.2	.4	.6	.1	91	2.2
TOT	1725	525	476	138	2864	2.7
PCT	60.2	18.3	16.6	4.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT. NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION													NH <5/8 ANY HGT	TOTAL OBS
000	150	300	600	1000	2000	3500	5000	6500	8000+					
149	299	599	999	1999	3499	4999	6499	7999	8000+					
.1	.0	.0	.1	.1	.3	.1	*	*	*	7.0	222			
.0	.0	*	.2	.8	.7	.4	.0	.0	.1	9.6	337			
.0	.0	*	.3	.7	.6	.2	.1	.0	.0	18.6	590			
.0	.0	*	.3	.5	.5	.1	.1	.1	.0	15.1	479			
.0	.0	*	.1	.5	.6	.1	.0	.0	.0	16.8	323			
.0	.0	.0	.1	.1	.1	*	.0	.0	.0	4.0	123			
.0	.0	.0	.1	.1	*	.1	.0	.0	.0	3.0	94			
.0	.0	.0	.1	.1	*	*	.0	.0	*	1.4	44			
.0	.0	.0	.1	.1	*	.0	.0	.0	.0	2.0	62			
.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.7	22			
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.4	15			
.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.3	15			
.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.8	27			
*	.0	.0	.1	.1	.1	.0	*	.0	.0	.8	31			
.0	.0	*	.0	.1	.1	.1	.0	.0	*	1.9	64			
.0	*	.0	.0	.1	.2	*	.1	.0	*	3.8	123			
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2			
.0	.0	.0	*	.0	*	.1	.0	.0	*	3.0	91			
.3	2	5	45	96	98	38	9	6	7	2555	2864			
.1	.1	.2	1.6	3.4	3.4	1.3	.3	.2	.2	89.2	100.0			



JANUARY

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	.3	.5	.5	.5	.5	.5	.5
= OR >5000	.6	.8	.8	.8	.8	.8	.8
= OR >3500	1.5	2.1	2.1	2.1	2.1	2.1	2.1
= OR >2000	3.7	5.5	5.5	5.5	5.5	5.5	5.5
= OR >1000	6.3	8.8	8.8	8.8	8.8	8.8	8.8
= OR >600	7.6	10.3	10.3	10.4	10.4	10.4	10.4
= OR >300	7.7	10.4	10.5	10.5	10.5	10.5	10.5
= OR >150	7.7	10.5	10.5	10.6	10.6	10.6	10.6
= OR > 0	7.7	10.6	10.6	10.7	10.7	10.7	10.7
TOTAL	221	303	305	306	306	307	307

TOTAL NUMBER OF OBS: 2867

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
20.8	25.7	27.0	10.5	5.4	4.1	3.0	1.3	2.0	.1	3052

JANUARY

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

TABLE 8

AREA 003 GUANTANAMO  
18-20N 74-76W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	1	*
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	*
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.0
1<2	PCP	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	*
2<5	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	3	.1
	NO PCP	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.0	.0	4	.1
	TOTAL	0	3	0	1	0	0	0	0	0	0	0	0	0	1	1	1	0	0	7	.3
5<10	PCP	.1	*	.1	.1	.1	*	.0	.0	.0	*	*	*	.0	*	*	.0	.0	*	20	.7
	NO PCP	2.7	1.7	1.9	2.3	2.8	.7	.6	.3	.3	.3	.2	.1	.2	.3	.6	1.2	.0	.4	448	16.4
	TOTAL	77	48	57	64	77	21	16	7	7	9	6	3	5	10	16	33	0	12	468	17.2
10<6>	PCP	.1	.1	.0	.1	*	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	12	.4
	NO PCP	4.9	10.0	18.5	13.8	15.5	3.5	2.6	1.2	1.9	.5	.3	.3	.7	.7	1.7	3.0	.1	2.9	2238	82.1
	TOTAL	137	275	504	379	425	95	72	34	52	13	7	9	20	20	45	82	2	79	2250	82.5
TOTAL	214	326	561	444	502	117	88	41	59	22	13	12	25	31	62	117	2	91	2727	100.0	
PCT	7.8	12.0	20.6	16.3	18.4	4.3	3.2	1.5	2.2	.8	.5	.4	.9	1.1	2.3	4.3	.1	3.3	100.0		

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

JANUARY

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	1	*
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	*
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	11-21	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	*
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.2
	22&>	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	0	3	0	1	0	0	0	0	0	0	0	0	0	1	1	1	0	0	7	.2
5<10	0-3	.4	.1	.1	.1	.3	.0	.2	*	.0	.0	.0	.0	.0	.1	.1	.1	.0	.4	57	2.0
	4-10	.8	.6	.4	.4	.5	.3	.1	.1	.1	.2	.2	.1	.2	.2	.4	.5	.0	.0	141	4.9
	11-21	1.4	.8	1.0	.9	1.6	.4	.3	.1	.1	.1	*	.1	.1	.1	*	.5	.0	.0	217	7.6
	22&>	.1	.2	.5	.8	.3	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	1.9
	TOTAL	77	48	57	65	77	21	16	7	7	9	6	4	5	10	16	33	0	12	470	16.4
10&>	0-3	.4	.3	.3	.3	.6	.1	.5	.1	.2	*	*	*	.2	.0	.2	.4	.1	2.8	192	6.7
	4-10	2.0	2.2	3.5	3.0	4.5	1.5	1.2	.7	1.2	.2	.1	.3	.3	.3	.8	1.4	.0	.0	667	23.3
	11-21	2.4	6.3	11.9	8.7	9.4	1.8	1.2	.5	.4	.2	.1	.1	.2	.3	.6	1.2	.0	.0	1303	45.4
	22&>	.2	1.1	2.8	2.4	1.0	.2	.0	*	*	*	.0	.0	*	*	.0	.1	.0	.0	226	7.9
	TOTAL	145	287	530	415	444	102	82	37	55	13	8	11	22	20	47	89	2	79	2388	83.3
TOTAL		222	338	587	481	521	124	98	44	62	22	14	15	27	31	64	124	2	91	2867	100.0
PCT		7.7	11.8	20.5	16.8	18.2	4.3	3.4	1.5	2.2	.8	.5	.5	.9	1.1	2.2	4.3	.1	3.2	100.0	

JANUARY

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00&03	*	.0	*	.2	.6	.6	.4	.2	.1	*	64	21.2	709
06&09	*	.0	.1	.5	.8	.5	.2	.0	.1	*	68	20.9	702
12&15	.0	.1	*	.5	1.0	.9	.2	.1	*	.1	86	22.5	769
18&21	*	.0	.0	.4	.7	1.3	.5	.1	*	.1	92	25.2	858
TOT	3	2	5	45	97	98	38	9	6	7	310	2728	3038
PCT	.1	.1	.2	1.5	3.2	3.2	1.3	.3	.2	.2	10.2	89.8	100.0

4

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00&03	.0	.0	.0	.1	3.5	20.1	681
06&09	.0	.0	.0	.0	3.1	19.8	659
12&15	*	.0	.0	.1	4.7	20.7	733
18&21	.0	.0	*	.1	5.1	22.8	805
TOT	1	0	1	7	471	2398	2878
PCT	*	.0	*	.2	16.4	83.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HR	<150	<600	1000	1000+	NH <5/8	TOTAL
(GMT)	<50YD	<1	<5	&OR5+	ANY HGT	OBS
00&03	.0	.0	.0	2.2	21.5	681
06&09	.0	.0	.0	2.4	20.5	659
12&15	.0	*	.1	2.9	22.5	733
18&21	.0	.0	*	3.1	24.8	805
TOT	0	1	2	304	2571	2878
PCT	.0	*	.1	10.6	89.3	100.0

JANUARY

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 13

TABLE 14

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	*	.2	.0	*	.0	6	.2
85/89	.0	.0	.0	.4	1.4	.5	.1	*	59	2.4
80/84	.0	.0	.2	1.2	8.7	13.5	2.9	1.2	691	27.7
75/79	.0	.0	.1	1.5	8.3	26.9	15.8	4.7	1426	57.2
70/74	.0	.0	*	.4	1.8	2.9	3.8	2.0	274	11.0
65/69	.0	.0	.0	.0	.1	.4	.5	.3	33	1.3
60/64	.0	.0	.0	.0	.0	.1	.0	.0	3	.1
TOTAL	0	0	9	87	510	1106	574	206	2492	100.0
PCT	.0	.0	.4	3.5	20.5	44.4	23.0	8.3		

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	*	.1	*	.1	.0	.0	.0	.0	.0	.0
85/89	.2	.5	.9	.3	.1	.1	.1	*	.0	.1
80/84	3.2	10.0	8.9	2.4	1.2	.3	.4	.6	.0	.6
75/79	9.9	25.6	12.1	2.6	1.5	.7	.8	2.3	.1	1.7
70/74	3.8	2.3	.7	.2	.1	.1	.6	2.4	.0	.8
65/69	.7	.0	*	.0	.0	.0	*	.4	.0	.2
60/64	*	.0	.0	.0	.0	.0	.1	.0	.0	.0
TOTAL	446	959	567	140	73	29	47	145	2	84
PCT	17.9	38.5	22.8	5.6	2.9	1.2	1.9	5.8	.1	3.4

TABLE 15

TABLE 16

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	85	85	83	79	74	71	67	78.1	734
06&09	83	83	81	77	71	68	63	76.7	844
12&15	86	85	82	77	70	67	62	76.2	793
18&21	92	90	86	80	75	72	70	80.6	936
TOT	92	87	83	77	70	67	62	78.0	3307

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.6	4.5	11.2	5.2	1.6	76	577
06&09	.0	.3	2.4	11.1	7.8	2.9	79	615
12&15	.0	.7	3.4	10.6	7.1	2.6	78	612
18&21	.0	2.3	10.1	11.5	2.9	1.2	71	700
TOT	0	96	511	1113	576	208	76	2504

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

JANUARY

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)											
AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	*	*	.1	4	.0	.1
9/10	.0	.0	.0	*	*	.1	.0	.1	7	.0	.3
7/8	.0	.0	.0	.0	.0	.3	.4	.1	23	.0	.9
6	.0	.0	.0	.0	.1	.2	.5	.0	22	.0	.8
5	.0	.0	.0	*	.5	.5	.4	.0	39	.0	1.4
4	.0	.0	.0	.1	.6	.9	.5	.0	53	.0	2.0
3	.0	.0	*	.1	.6	1.6	.3	.0	72	.0	2.7
2	.0	.0	.0	.2	1.1	2.2	.1	.0	96	.0	3.6
1	.0	.0	.0	.3	2.0	2.2	*	.0	121	.0	4.5
0	.0	.0	.0	.4	8.2	2.6	.0	.0	301	.0	11.2
-1	.0	.0	*	.8	8.8	2.4	.0	.0	324	.0	12.0
-2	.0	.0	.1	1.6	10.2	.7	.0	.0	340	.0	12.6
-3	.0	.0	.1	3.0	9.3	.7	.0	.0	352	.0	13.1
-4	.0	*	.2	3.5	4.9	.1	.0	.0	235	.0	8.7
-5	.0	.0	.1	4.1	2.6	.1	.0	.0	187	.0	6.9
-6	.0	.0	.3	2.9	1.1	.1	.0	.0	119	.0	4.4
-7/-8	.0	.1	1.4	3.5	1.0	.1	.0	.0	166	.0	6.2
-9/-10	.0	.1	1.8	1.2	.8	.0	.0	.0	105	*	3.9
-11/-13	.1	.5	1.2	.9	.7	.0	.0	.0	92	.0	3.4
-14/-16	.0	.1	.3	.6	*	.0	.0	.0	27	.0	1.0
-17/-19	.0	.1	.2	*	.0	.0	.0	.0	8	.0	.3
TOTAL	3	25	156	626	1413	403	60	7	2693	1	2692
PCT	.1	.9	5.8	23.2	52.5	15.0	2.2	.3	100.0	*	100.0

PERIOD: (PRIMARY)  
(COVER-ALL) 1963-1968

JANUARY  
TABLE 18

AREA 003 GUANTANAMO  
18-20N 74-76W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						TOTAL	NE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.6	.7	.1	.0	.0	.0	10	.1	1.0	.1	.0	.0	.0	9
1-2	.4	3.7	3.2	.6	.0	.0	54	.0	4.5	5.7	.0	.0	.0	70
3-4	.0	1.0	2.3	.3	.0	.0	25	.0	4.8	9.5	4.0	.0	.0	125
5-6	.0	.1	.9	.3	.0	.0	9	.0	1.6	2.9	1.8	.0	.0	43
7	.0	.0	.3	.4	.1	.0	6	.0	.0	1.6	1.0	.0	.0	18
8-9	.0	.0	.0	.4	.0	.0	3	.0	.0	.6	.1	.1	.0	6
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.0	.0	.0	2
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	7	38	47	14	.1	0	107	1	82	142	47	1	0	273
PCT	1.0	5.6	6.9	2.1	.1	.0	15.7	.1	12.0	20.8	6.9	.1	.0	40.0

HGT	E						TOTAL	SE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.6	1.9	.3	.0	.0	.0	19	.0	.4	.0	.0	.0	.0	3
1-2	.3	4.7	3.8	.6	.0	.0	64	.1	1.6	.7	.1	.0	.0	18
3-4	.0	2.9	5.6	1.0	.0	.0	65	.0	.9	.4	.0	.0	.0	9
5-6	.0	.7	1.9	.3	.0	.0	20	.1	.1	.1	.0	.0	.0	3
7	.0	.3	1.3	.1	.0	.0	12	.0	.0	.1	.0	.0	.0	1
8-9	.0	.0	.6	.0	.0	.0	4	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	6	72	92	14	0	0	184	2	21	10	1	0	0	34
PCT	.9	10.6	13.5	2.1	.0	.0	27.0	.3	3.1	1.5	.1	.0	.0	5.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

JANUARY  
TABLE 18

AREA 003 GUANTANAMO  
18-20N 74-76W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							48+	TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	TOTAL				
<1	.1	.9	.0	.0	.0	.0	7	.1	.1	.0	.0	.0	.0	.0	2		
1-2	.1	1.0	1.0	.0	.0	.0	15	.0	.3	.1	.0	.0	.0	.0	3	68	
3-4	.0	.3	.0	.0	.0	.0	2	.0	.0	.0	.0	.0	.0	.0	0	253	
5-6	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	233	
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	75	
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	38	
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	13	
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0	
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	2	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0	
TOTAL	.2	1.5	.7	.0	.0	.0	24	.0	.0	.0	.0	.0	.0	.0	0	0	
PCT	.3	2.2	1.0	.0	.0	.0	3.5	.1	.4	.1	.0	.0	.0	.0	.7		

HGT	W							NW					48+	TOTAL	GRAND TOTAL	
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37				TOTAL
<1	.3	.0	.0	.0	.0	.0	2	1.0	1.3	.0	.0	.0	.0	.0	16	68
1-2	.0	.6	.0	.0	.0	.0	4	.3	2.5	.7	.1	.0	.0	.0	25	253
3-4	.0	.1	.0	.0	.0	.0	1	.1	.1	.6	.0	.0	.0	.0	6	233
5-6	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	75
7	.0	.0	.0	.0	.0	.0	0	.0	.1	.0	.0	.0	.0	.0	1	38
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	13
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	2
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	.2	.5	.0	.0	.0	.0	7	1.0	2.8	.9	.1	.0	.0	.0	48	682
PCT	.3	.7	.0	.0	.0	.0	1.0	1.5	4.1	1.3	.1	.0	.0	.0	7.0	100.0



JANUARY

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

TABLE 18 (CONT)

AREA 003 GUANTANAMO  
18-20N 74-76W

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	6.2	6.2	.6	.0	.0	.0	92
1-2	2.0	18.1	14.7	1.4	.0	.0	258
3-4	.4	9.8	17.6	5.0	.0	.0	235
5-6	.1	2.5	5.6	2.2	.0	.0	75
7	.0	.4	3.2	1.5	.1	.0	38
8-9	.0	.0	1.1	.6	.1	.0	13
10-11	.1	.0	.0	.0	.0	.0	1
12	.0	.0	.3	.0	.0	.0	2
13-16	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	63	264	308	77	2	0	714
PCT	8.8	37.0	43.1	10.8	.3	.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	28.4	26.2	7.3	1.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	504	2
6-7	.1	1.6	6.2	4.2	3.9	1.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	133	4
8-9	.1	.5	.8	.5	1.6	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	5
10-11	.0	.0	.0	.3	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	7
12-13	.0	.0	.4	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
>13	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
INDET	8.4	1.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80	0
TOTAL	80	246	259	95	60	18	2	3	0	0	0	0	0	0	0	0	0	0	0	763	3
PCT	10.5	32.2	33.9	12.5	7.9	2.4	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT PCPN AT DB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW		
N	.1	*	.0	.0	.0	.0	.0	3	.0	*	.1	*	5	244	.1
NNE	.1	.1	*	.0	.0	.0	.0	6	.1	.0	.1	*	5	322	.2
NE	.1	.1	.1	.0	.0	.0	.0	10	.1	.0	.1	*	5	581	.3
ENE	.1	*	*	.0	.0	.0	.0	4	.1	.0	*	.0	3	402	.1
E	.1	.1	.1	.0	.0	.0	.0	7	.0	.0	.1	.0	2	582	.2
ESE	*	.0	*	.0	.0	.0	.0	2	.0	.0	.0	.0	0	200	.1
SE	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	*	.0	1	126	.0
SSE	.0	.0	*	.0	.0	.0	.0	1	*	.0	.0	.0	1	67	*
S	*	.1	*	.0	.0	.0	.0	4	.0	.0	.1	.0	3	92	.1
SSW	.0	*	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	0	52	*
SW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	49	.0
WSW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	36	.0
W	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	55	.0
WNW	*	.0	.0	.0	.0	.0	.0	1	.0	.0	*	.0	1	38	*
NW	*	.1	.0	.0	.0	.0	.0	3	.0	.0	.1	.0	2	116	.1
NNW	*	.0	.0	.0	.0	.0	.0	1	*	*	.1	.0	4	133	*
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	3	119	.0
TOT	17	16	10	0	0	0	0	43	9	3	20	3	35	3214	
PCT	.5	.5	.3	.0	.0	.0	.0	1.3	.3	.1	.6	.1	1.1	100.0	1.3

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT PCPN AT DB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW		
0003	.2	.1	*	.0	.0	.0	.0	11	.1	.0	.1	*	6	765	.3
0609	.1	.1	.1	.0	.0	.0	.0	7	.2	*	.1	*	12	740	.2
12015	.1	.1	.1	.0	.0	.0	.0	11	*	.1	.3	.0	12	780	.3
18021	.1	.2	.1	.0	.0	.0	.0	14	*	.0	.1	.1	7	962	.4
TOT	17	16	10	0	0	0	0	43	10	3	20	4	37	3247	
PCT	.5	.5	.3	.0	.0	.0	.0	1.3	.3	.1	.6	.1	1.1	100.0	1.3

FEBRUARY

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47					00	03	06	09	12	15	18	21
N	.8	3.9	2.1	.3	.0	*	255	7.1	9.7	5.7	8.0	6.1	9.4	17.2	4.9	2.3	1.7
NNE	.9	4.2	4.0	.9	.1	.0	361	10.1	12.1	13.4	8.0	10.2	8.5	12.0	8.4	7.2	8.2
NE	.8	6.9	8.7	2.2	.1	.0	671	18.8	13.3	17.1	24.0	24.5	21.6	17.4	24.5	15.3	15.9
ENE	.5	4.4	6.7	1.7	*	.0	476	13.3	13.9	11.1	14.0	13.3	13.6	11.1	21.0	15.7	12.0
E	1.0	7.8	7.9	1.4	.1	.0	648	18.1	12.2	16.3	13.0	15.1	15.5	14.5	18.9	25.1	20.6
ESE	.5	2.8	2.5	.1	.0	.0	213	6.0	10.7	8.0	5.0	4.1	1.9	3.4	2.8	8.6	8.6
SE	.8	2.2	.9	.1	.0	.0	144	4.0	8.4	5.7	1.0	2.9	3.3	2.8	2.8	4.5	6.4
SSE	.2	1.3	.6	*	.0	.0	76	2.1	9.1	2.1	4.0	1.8	1.9	1.0	.0	3.1	3.0
S	.5	1.5	.6	.0	.0	.0	95	2.7	8.1	3.1	1.0	1.8	.9	2.1	1.4	3.4	5.6
SSW	.2	.9	.5	.0	.0	.0	56	1.6	9.0	3.1	4.0	.6	.9	.4	1.4	1.4	3.0
SW	.2	1.0	.4	*	.0	.0	55	1.5	8.4	2.4	.0	1.2	1.4	.7	.7	1.7	2.6
WSW	.1	.7	.4	.0	.0	.0	41	1.1	9.2	1.0	1.0	.6	.5	.4	.0	2.2	2.6
W	.3	.8	.5	.0	.0	.0	58	1.6	8.1	2.1	2.0	1.2	1.4	1.2	1.4	1.6	2.6
WNW	.2	.7	.3	.0	.0	.0	41	1.1	8.1	.7	.0	1.1	.9	1.2	.0	1.7	1.7
NW	.4	2.1	.8	.1	.0	.0	124	3.5	8.0	1.7	6.0	6.1	5.6	4.3	4.9	1.6	1.7
NNW	.4	2.6	.8	*	.0	.0	136	3.8	7.9	2.4	5.0	5.0	6.1	7.7	2.8	1.2	.9
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6						128	3.6	.0	3.9	4.0	4.1	6.6	2.4	4.2	3.1	3.0
TOT	402	1566	1351	248	10	1	3578	100.0	11.0	701	100	654	213	674	143	860	233
PCT	11.2	43.8	37.8	6.9	.3	*	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40						00	03	06	09	12	15	18
N	5.1	8.7	3.2	.2	*	616	17.2	11.1	19.1	16.0	16.4	17.8	29.2	13.3	9.5	9.9
NE	5.5	17.0	8.6	1.0	*	1147	32.1	13.6	28.2	38.0	37.8	35.2	28.5	45.5	31.0	27.9
E	5.3	13.6	4.9	.3	.0	861	24.1	11.8	24.3	18.0	19.3	17.4	18.0	21.7	33.7	29.2
SE	2.3	3.4	.4	*	.0	220	6.1	8.7	7.8	5.0	4.7	5.2	3.9	2.8	7.7	9.4
S	1.7	2.2	.3	.0	.0	151	4.2	8.4	6.3	5.0	2.4	1.9	2.5	2.8	4.8	8.6
SW	1.0	1.5	.2	.0	.0	96	2.7	8.7	3.4	1.0	1.8	1.9	1.2	.7	4.0	5.2
W	1.2	1.5	.1	.0	.0	99	2.8	8.1	2.9	2.0	2.3	2.3	2.4	1.4	3.4	4.3
NW	3.4	3.7	.2	.0	.0	260	7.3	7.9	4.1	11.0	11.2	11.7	12.0	7.7	2.8	2.6
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6					128	3.6	.0	3.9	4.0	4.1	6.6	2.4	4.2	3.1	3.0
TOT	1041	1841	641	53	2	3578	100.0	11.0	701	100	654	213	674	143	860	233
PCT	29.1	51.5	17.9	1.5	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00003	1.6	8.8	8.9	2.1	*	.0	.0	.9	11.6	22.4	801
06009	2.2	11.1	8.4	1.3	.0	.0	.0	1.1	10.2	24.2	867
12015	2.1	10.9	8.2	.9	.1	*	.0	.6	10.4	22.8	817
18021	1.8	12.9	12.2	2.6	.2	.0	.0	1.0	11.7	30.5	1093
TOT	274	1566	1351	248	10	1	0	128	11.0		3578
PCT	7.7	43.8	37.8	6.9	.3	*	.0	3.6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION					MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBS	TOTAL OBS	
N	4.8	1.2	1.6	.1	236	2.5
NNE	5.4	2.0	1.8	.6	306	2.9
NE	9.6	3.8	3.2	.6	533	2.8
ENE	7.6	2.7	2.3	.5	402	2.7
E	9.6	4.3	3.8	.5	565	2.9
ESE	3.4	1.3	1.2	.1	188	2.7
SE	2.2	.7	.8	.2	121	2.8
SSE	1.3	.3	.4	.0	64	2.6
S	1.4	.4	.7	.3	86	3.4
SSW	.9	.3	.4	.1	52	3.3
SW	.8	.3	.4	*	48	3.0
WSW	.5	.3	.2	.1	35	3.5
W	1.0	.3	.4	.2	56	3.2
WNW	.7	.2	.2	.1	38	3.1
NW	1.7	.6	1.0	.3	113	3.5
NNW	2.7	.6	.8	.2	133	2.5
VAR	.0	.0	.0	.0	0	.0
CALM	2.5	.6	.5	.1	114	2.2
TOT	1734	615	615	126	3090	2.8
PCT	56.1	19.9	19.9	4.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)

WIND DIR	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										NH <5/8 ANY HGT	TOTAL OBS
	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+		
N	.0	*	.0	*	.2	.4	.2	*	*	*	6.7	236
NNE	.0	.0	.0	.1	.4	.6	.1	.1	.1	*	8.5	306
NE	*	.0	.1	.4	.6	.6	.1	.1	.0	.2	15.2	533
ENE	.0	.0	.1	.1	.4	.6	.2	.1	*	.0	11.7	402
E	.0	.0	.1	.2	.5	.5	.4	.2	.2	*	16.3	565
ESE	.0	*	.0	.1	.1	.2	.1	.1	.0	.0	5.5	188
SE	.0	.0	.0	*	.2	.1	.1	*	.0	.0	3.5	121
SSE	.0	.0	.0	.0	*	.1	.0	*	.0	.0	1.9	64
S	.0	.0	.0	*	.2	.2	.0	.0	.0	.0	2.3	86
SSW	.0	.0	.0	.0	*	.2	.0	.0	.0	.0	1.5	52
SW	.0	.0	.0	.1	*	.1	.0	.0	.0	*	1.3	48
WSW	.0	.0	.0	.0	*	.1	.0	.0	.1	.0	.9	35
W	.0	.0	.0	*	.1	.1	.0	*	*	.0	1.5	56
WNW	.0	.0	.0	*	.1	.0	.1	*	.0	.0	1.0	38
NW	.0	.0	.0	.0	.1	.3	.3	*	.0	.1	2.8	113
NNW	.0	.0	.0	.1	.1	.3	.1	.0	.0	*	3.7	133
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.1	.1	.2	*	.0	.0	.0	3.3	114
TOT	2	2	7	40	92	142	51	21	12	12	2709	3090
PCT	.1	.1	.2	1.3	3.0	4.6	1.7	.7	.4	.4	87.7	100.0

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

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AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	.6	.8	.8	.8	.8	.8	.8
= OR >5000	1.1	1.5	1.5	1.5	1.5	1.6	1.6
= OR >3500	2.0	3.2	3.2	3.2	3.2	3.2	3.2
= OR >2000	4.8	7.8	7.8	7.8	7.8	7.8	7.8
= OR >1000	7.2	10.8	10.8	10.8	10.9	10.9	10.9
= OR >600	8.2	12.0	12.1	12.1	12.1	12.2	12.2
= OR >300	8.5	12.2	12.3	12.3	12.4	12.4	12.4
= OR >150	8.5	12.3	12.4	12.4	12.4	12.5	12.5
= OR > 0	8.5	12.3	12.4	12.4	12.5	12.5	12.5
TOTAL	263	381	384	385	386	388	388

TOTAL NUMBER OF OBS: 3096

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
20.9	24.8	25.7	9.9	6.2	4.3	4.3	1.9	1.7	.1	3325

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PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	NO PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	2	.1
	TOTAL	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	.1
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	*
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	1	*
	NO PCP	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	TOTAL	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	3	.1
2<5	PCP	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	NO PCP	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.1
	TOTAL	2	1	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	6	.2
5<10	PCP	.1	.1	.0	.1	*	.0	.0	.0	.1	*	.0	.0	.0	*	.1	.0	.0	.0	13	.4
	NO PCP	2.5	1.8	2.9	2.0	3.1	1.2	.7	.4	.6	.6	.4	.3	.4	.4	1.7	1.4	.0	.7	635	21.1
	TOTAL	77	57	87	61	94	35	20	12	20	19	13	10	12	13	53	43	0	22	648	21.5
10<20	PCP	.0	.1	.2	*	.1	.0	.0	*	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	13	.4
	NO PCP	5.2	7.9	14.1	10.5	15.0	4.9	3.3	1.6	2.1	1.1	1.1	.8	1.4	.8	1.9	2.9	.0	3.0	2342	77.7
	TOTAL	156	240	430	317	455	149	99	50	64	33	34	24	43	24	59	88	0	90	2355	78.1
TOTAL	235	299	519	378	550	185	119	62	85	52	47	34	55	38	112	133	0	112	3015	100.0	
PCT	7.8	9.9	17.2	12.5	18.2	6.1	3.9	2.1	2.8	1.7	1.6	1.1	1.8	1.3	3.7	4.4	.0	3.7	100.0		

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PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	1	*
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	*
1<2	0-3	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	1	*
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	3	.1
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	11-21	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	3	.1
	22&>	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	2	1	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	6	.2
5<10	0-3	.3	.3	.2	.1	.4	.1	.1	.1	.1	.0	.0	.0	.1	.1	.3	.2	.0	.7	87	2.8
	4-10	1.1	.8	.8	.4	.9	.3	.4	.2	.3	.3	.2	.1	.3	.2	1.0	.8	.0	.0	247	8.0
	11-21	1.0	.6	1.3	1.2	1.5	.8	.2	.2	.3	.3	.2	.2	.1	.2	.4	.5	.0	.0	272	8.8
	22&>	.1	.2	.3	.3	.3	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	45	1.5
	TOTAL	77	57	87	61	94	36	20	13	20	19	13	11	12	13	53	43	0	22	651	21.0
10<>	0-3	.5	.5	.5	.3	.5	.5	.6	.1	.5	.1	.1	.1	.3	.1	.1	.3	.0	2.9	249	8.0
	4-10	2.5	2.5	3.2	2.5	4.3	1.8	1.1	1.0	.9	.5	.7	.4	.5	.5	.8	1.7	.0	.0	773	25.0
	11-21	1.8	4.2	9.0	6.8	9.0	2.5	1.5	.6	.7	.5	.3	.4	.7	.2	1.0	.8	.0	.0	1232	39.8
	22&>	.3	.7	1.6	1.5	1.3	.2	.1	*	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	179	5.8
	TOTAL	158	248	443	343	467	153	101	53	65	34	35	27	44	24	60	88	0	90	2433	78.6
TOTAL	237	307	532	404	562	190	121	66	86	53	48	38	56	38	113	133	0	112	3096	100.0	
PCT	7.7	9.9	17.2	13.0	18.2	6.1	3.9	2.1	2.8	1.7	1.6	1.2	1.8	1.2	3.6	4.3	.0	3.6	100.0		

FEBRUARY

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	*	*	.4	1.0	1.1	.3	.2	.1	.2	109	20.5	786
06&09	.0	.0	.1	.2	.6	.7	.2	.2	.0	.1	69	20.1	733
12&15	.1	.0	.1	.3	.6	1.1	.4	.2	.1	.1	96	21.1	793
18&21	.0	*	*	.4	.7	1.5	.6	.2	.2	*	118	26.5	994
TOT	2	2	7	40	95	145	53	22	12	14	392	2914	3306
PCT	.1	.1	.2	1.2	2.9	4.4	1.6	.7	.4	.4	11.9	88.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.1	*	4.6	19.1	741
06&09	*	.0	.0	*	4.5	17.2	679
12&15	*	*	*	.1	5.8	18.3	760
18&21	.0	.0	.0	*	6.0	24.1	941
TOT	2	1	3	6	654	2455	3121
PCT	.1	*	.1	.2	21.0	78.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND  
CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ 60R5+	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	*	3.4	20.3	741
06&09	.0	.0	.0	2.2	19.6	679
12&15	.0	*	*	3.0	21.3	760
18&21	.0	.0	*	3.7	26.4	941
TOT	0	1	2	387	2731	3121
PCT	.0	*	.1	12.4	87.5	100.0



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PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
85/89	.0	.0	.1	.6	.9	.4	.3	.1	60	2.3
80/84	.0	.0	.1	1.4	9.2	13.6	3.5	1.0	735	28.7
75/79	.0	*	.5	1.5	7.2	26.2	16.8	3.8	1433	56.0
70/74	.0	.0	.0	.5	1.4	2.1	4.8	2.4	289	11.3
65/69	.0	.0	.0	.0	.2	.3	1.0	.2	42	1.6
TOTAL	0	1	19	102	483	1087	676	191	2559	100.0
PCT	.0	*	.7	4.0	18.9	42.5	26.4	7.5		

TABLE 14

	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW				
85/89	.2	.7	.7	.4	.1	.0	.1	.2	.0	.1	.0	.1
80/84	2.7	8.1	9.4	2.6	1.8	1.3	1.0	.8	.0	1.1	.0	1.1
75/79	9.1	20.6	14.1	2.7	2.0	1.2	1.3	3.0	.0	2.0	.0	2.0
70/74	4.2	2.3	.8	.1	.2	*	.6	2.6	.0	.4	.0	.4
65/69	.7	.2	*	.0	*	.0	.6	.6	.0	*	.0	*
TOTAL	434	813	641	149	106	63	77	184	0	92	0	92
PCT	17.0	31.8	25.0	5.8	4.1	2.5	3.0	7.2	.0	3.6	.0	3.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	86	84	80	75	72	68	78.2	809
06&09	84	84	82	78	72	68	65	76.4	873
12&15	91	86	83	78	70	66	65	75.9	821
18&21	90	90	86	80	75	73	70	80.3	1086
TDT	91	88	84	78	71	67	65	77.8	3589

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.7	4.3	12.5	5.7	1.1	76	625	76	625
06&09	.0	.5	1.9	9.8	8.7	2.2	79	596	79	596
12&15	.0	.6	2.7	8.5	8.2	2.9	79	592	79	592
18&21	.0	3.1	9.9	11.7	4.0	1.2	71	769	71	769
TDT	0	125	486	1095	684	192	76	2582	76	2582

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

FEBRUARY

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	*	*	*	3	.0	.1
9/10	.0	.0	.0	.1	*	.1	.1	9	.0	.3
7/8	.0	.0	*	.1	.2	.6	.0	26	.0	.9
6	.0	.0	.0	.2	.2	.2	.0	16	.0	.5
5	.0	.0	.0	.2	.4	.4	.0	31	.0	1.0
4	.0	.0	.0	.2	1.1	.4	.0	50	.0	1.7
3	.0	.0	.0	.5	1.7	.1	.0	70	.0	2.4
2	.0	*	.1	1.3	2.4	.1	.0	118	.0	4.0
1	.0	.0	.1	2.4	3.0	.0	.0	163	.0	5.5
0	.0	.0	.2	8.2	2.7	*	.0	331	.0	11.1
-1	.0	.0	.9	9.5	1.6	.2	.0	362	.0	12.2
-2	.0	.0	2.1	11.1	.8	.0	.0	414	*	13.9
-3	.0	*	2.1	8.5	.7	.0	.0	337	.0	11.4
-4	.0	*	4.0	4.9	.2	.0	.0	272	.0	9.2
-5	.0	.1	2.4	3.2	.2	.0	.0	174	.0	5.9
-6	.0	.6	2.8	1.4	*	.0	.0	143	.0	4.8
-7/-8	.0	1.0	3.1	1.1	.1	.0	.0	158	*	5.3
-9/-10	.2	2.1	1.9	.5	.0	.0	.0	139	.0	4.7
-11/-13	.5	1.7	1.4	.1	.0	.0	.0	111	*	3.7
-14/-16	.4	.3	.3	.0	.0	.0	.0	31	.0	1.0
-17/-19	.0	.3	*	.0	.0	.0	.0	9	.0	.3
-20/-22	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	35	183	635	1590	459	63	4	2969	3	2966
PCT	1.2	6.2	21.4	53.6	15.5	2.1	.1	100.0	.1	99.9

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

FEBRUARY

TABLE 18

AREA 003 GUANTANAMO  
18-20N 74-76W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	3.0	2.2	.0	.0	.0	.0	33	1.3	1.1	.5	.0	.0	.0	18
1-2	.3	2.8	1.7	.3	.0	.0	33	.2	5.3	2.5	.3	.2	.0	54
3-4	.0	.6	2.7	.3	.0	.0	23	.0	2.0	4.5	1.9	.0	.0	54
5-6	.0	.2	.6	.2	.0	.0	6	.0	.6	3.6	1.6	.0	.0	37
7	.0	.0	.3	.0	.0	.0	2	.2	.0	1.3	.2	.0	.0	10
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.5	.2	.0	5
10-11	.0	.0	.0	.0	.2	.0	1	.0	.0	.3	.5	.2	.0	6
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	21	37	34	5	1	0	98	10	58	82	31	3	0	184
PCT	3.3	5.8	5.3	.8	.2	.0	15.3	1.6	9.1	12.8	4.8	.5	.0	28.8

HGT	E							SE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	1.6	2.7	.8	.0	.0	.0	32	.5	.5	.3	.0	.0	.0	8
1-2	.3	5.5	3.9	.6	.0	.0	66	.3	1.1	.3	.0	.0	.0	11
3-4	.0	2.7	4.7	.8	.0	.0	52	.0	.9	.5	.0	.0	.0	9
5-6	.0	.3	3.0	.6	.2	.0	26	.0	.2	.0	.0	.0	.0	1
7	.0	.0	1.4	.2	.0	.0	10	.0	.0	.2	.0	.0	.0	1
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.2	.2	.0	.0	2	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	12	71	89	15	1	0	188	5	17	8	0	0	0	30
PCT	1.9	11.1	13.9	2.3	.2	.0	29.4	.8	2.7	1.3	.0	.0	.0	4.7

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

FEBRUARY

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						TOTAL	SW						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.5	1.1	.2	.0	.0	.0	11	.2	.8	.0	.0	.0	.0	6
1-2	.3	.9	1.6	.0	.0	.0	18	.0	1.1	.2	.0	.0	.0	8
3-4	.0	.5	.5	.0	.0	.0	6	.0	.3	.0	.0	.0	.0	2
5-6	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	5	16	14	0	0	0	35	1	14	1	0	0	0	16
PCT	.8	2.5	2.2	.0	.0	.0	5.5	.2	2.2	.2	.0	.0	.0	2.5

HGT	W						TOTAL	NW						TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+		
<1	.5	.9	.0	.0	.0	.0	9	1.7	4.1	.3	.0	.0	.0	39	156
1-2	.6	1.1	.6	.0	.0	.0	16	.0	1.9	.9	.2	.0	.0	19	225
3-4	.0	.2	.2	.0	.0	.0	2	.0	.3	.3	.0	.0	.0	4	152
5-6	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	70
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	23
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	5
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	9
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	8	14	5	0	0	0	27	11	40	10	1	0	0	62	640
PCT	1.3	2.2	.8	.0	.0	.0	4.2	1.7	6.3	1.6	.2	.0	.0	9.7	100.0

FEBRUARY

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	13.1	12.7	1.9	.0	.0	.0	186
1-2	2.1	18.8	11.2	1.3	.1	.0	225
3-4	.0	7.2	12.7	2.8	.0	.0	152
5-6	.0	1.2	6.9	2.2	.1	.0	70
7	.1	.0	3.0	.3	.0	.0	23
8-9	.0	.0	.1	.4	.1	.0	5
10-11	.0	.0	.4	.6	.3	.0	9
12	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	103	267	243	52	5	0	670
PCT	15.4	39.9	36.3	7.8	.7	.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	3.2	29.0	23.0	5.7	2.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	479	2
6-7	.0	1.2	3.0	4.2	1.7	.3	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	4
8-9	.0	.5	.8	1.2	1.2	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	5
10-11	.0	.0	.1	.0	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
12-13	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	19.2	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	150	0
TOTAL	169	236	206	84	41	8	10	1	0	0	0	0	0	0	0	0	0	0	0	0	755	2
PCT	22.4	31.3	27.3	11.1	5.4	1.1	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

MARCH

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLNG DUST BLNG SNOW	TOTAL OTHER WEA		
N	*	.1	*	.0	.0	.0	.0	6	.0	.1	.2	.0	11	333	.2
NNE	*	*	.0	.0	.0	.0	.0	2	.0	.0	.1	.0	5	340	.1
NE	.0	.1	*	.0	.0	.0	.0	4	*	.0	.1	.0	5	647	.1
ENE	*	.1	*	.0	.0	.0	.0	4	.1	.0	.1	.0	7	451	.1
E	.1	.1	*	.0	.0	.0	.0	7	.1	.0	.1	.1	8	642	.2
ESE	*	*	*	.0	.0	.0	.0	3	.0	.0	.1	.0	2	249	.1
SE	.0	.1	*	.0	.0	.0	.0	3	.0	.0	.0	.0	0	195	.1
SSE	.0	*	*	.0	.0	.0	.0	2	.0	.0	.1	.0	2	87	.1
S	*	*	.0	.0	.0	.0	.0	2	.0	.0	.0	.0	0	100	.1
SSW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	52	.0
SW	*	*	.0	.0	.0	.0	.0	2	.0	.0	*	.0	1	90	.1
WSW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	39	.0
W	.0	*	.0	.0	.0	.0	.0	1	.0	.0	.1	.0	2	74	*
WNW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	*	.0	1	43	.0
NW	.0	.1	.0	.0	.0	.0	.0	2	.0	.0	.0	.0	0	80	.1
NNW	*	.1	.0	.0	.0	.0	.0	3	.0	.0	.1	.0	5	109	.1
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	2	.0
CALM	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.0	6	129	.0
TOT	.9	.25	.7	.0	.0	.0	.0	.41	.6	.3	.44	.2	.55	3662	
PCT	.2	.7	.2	.0	.0	.0	.0	1.1	.2	.1	1.2	.1	1.3	100.0	1.1

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLNG DUST BLNG SNOW	TOTAL OTHER WEA		
00003	.1	.1	*	.0	.0	.0	.0	8	*	.0	.3	*	13	815	.2
06009	.1	.2	.1	.0	.0	.0	.0	13	.1	.0	.2	*	12	820	.4
12015	.1	.2	*	.0	.0	.0	.0	9	.0	.1	.5	.0	21	930	.2
18021	.1	.1	.1	.0	.0	.0	.0	11	.0	.0	.2	.0	9	1128	.3
TOT	.9	.25	.7	.0	.0	.0	.0	.41	.6	.3	.44	.2	.55	3693	
PCT	.2	.7	.2	.0	.0	.0	.0	1.1	.2	.1	1.2	.1	1.3	100.0	1.1

MARCH

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

TABLE 3

AREA 003 GUANTANAMO  
18-20N 74-76W

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.1	4.6	2.8	.2	.0	.0	352	8.6	9.3	7.2	4.0	8.0	8.7	18.5	8.3	3.6	4.0
NNE	.5	3.9	3.9	.7	*	.0	367	9.0	12.3	10.7	6.1	9.8	9.2	13.1	4.2	5.6	6.0
NE	.4	6.1	9.0	2.2	.1	.0	729	17.9	14.0	20.0	22.2	22.6	15.7	16.8	21.4	14.6	11.9
ENE	.4	4.0	5.8	2.8	.0	.0	930	13.0	14.8	9.1	17.2	12.6	21.0	12.0	21.4	13.2	13.9
E	.7	6.5	8.4	1.7	*	*	709	17.4	12.9	16.5	13.1	17.2	14.0	11.0	18.5	24.1	19.4
ESE	.3	3.1	3.3	.5	.0	.0	290	7.1	11.7	6.7	8.1	6.1	3.9	5.1	6.5	9.8	10.3
SE	.3	2.8	2.1	.1	.0	.0	214	5.2	10.2	5.7	1.0	4.7	3.5	2.9	4.2	8.0	6.3
SSE	.3	1.5	.7	.1	.0	.0	102	2.5	9.3	3.3	1.0	1.4	2.2	1.1	.6	3.9	4.8
S	.4	1.6	.8	*	.0	.0	116	2.8	4.6	3.6	4.0	2.0	1.7	1.3	1.2	4.0	5.2
SSW	.2	.9	.3	.0	.0	.0	58	1.4	7.5	1.8	2.0	.9	1.3	1.0	1.2	1.4	3.2
SW	.2	1.3	.7	*	*	.0	92	2.3	9.2	2.6	2.0	1.2	2.2	1.3	2.4	3.0	4.4
WSW	.1	.6	.3	*	.0	.0	44	1.1	8.7	2.1	1.0	.7	.9	.6	.0	1.0	2.0
W	.2	1.3	.5	.0	.0	.0	80	2.0	8.1	3.3	2.0	1.8	2.2	1.0	2.4	1.7	2.4
WNW	.1	.8	.2	.0	.0	.0	46	1.1	7.6	.8	4.0	.5	1.7	2.0	1.2	.7	.8
NW	.4	1.3	.4	*	.0	.0	86	2.1	7.8	1.8	1.0	3.4	1.3	2.9	1.2	1.4	1.2
NNW	.4	1.6	.8	*	.0	*	117	2.9	8.6	1.1	5.1	3.0	3.5	7.1	.6	1.0	1.6
VAR	*	.0	.0	.0	.0	.0	2	*	2.0	.1	.0	.1	.0	.0	.0	.0	.0
CALM	3.5						143	3.5	.0	3.6	6.1	3.9	7.0	2.3	4.8	3.1	2.8
TOT	395	1705	1625	341	9	2	4077	100.0	11.5	759	99	738	229	831	168	1001	252
PCT	9.7	41.8	39.9	8.4	.2	*	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	4.8	9.9	2.7	.3	.0	719	17.6	10.8	17.9	10.1	17.8	17.9	31.4	12.5	9.2	9.9
NE	4.4	13.4	10.0	1.0	.0	1259	30.9	14.3	29.1	39.4	35.2	36.7	28.9	42.9	27.8	25.8
E	4.7	13.9	5.6	.3	*	999	24.5	12.5	23.2	21.2	23.3	17.9	16.0	25.0	33.9	29.8
SE	2.6	4.4	.8	*	.0	316	7.8	9.9	9.0	2.0	6.1	5.7	4.0	4.8	11.9	11.1
S	1.8	2.3	.1	.0	.0	174	4.3	8.2	5.4	6.1	3.0	3.1	2.3	2.4	5.4	8.3
SSW	1.2	1.9	.2	*	.0	136	3.3	9.0	4.7	3.0	1.9	3.1	1.9	2.4	4.0	6.3
SW	1.3	1.6	.1	.0	.0	126	3.1	7.9	4.1	6.1	2.3	3.9	3.0	3.6	2.4	3.2
NW	2.3	2.5	.1	.0	*	203	5.0	8.3	2.9	6.1	6.4	4.8	10.0	1.8	2.4	2.8
VAR	*	.0	.0	.0	.0	2	*	2.0	.1	.0	.1	.0	.0	.0	.0	.0
CALM	3.5					143	3.5	.0	3.6	6.1	3.9	7.0	2.3	4.8	3.1	2.8
TOT	1085	2120	802	68	2	4077	100.0	11.5	759	99	738	229	831	168	1001	252
PCT	26.6	52.0	19.7	1.7	*	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HGUR (GMT)

HGUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00603	1.2	8.7	7.9	2.2	.1	*	*	.8	12.1	21.0	858
06609	1.8	9.7	9.2	1.9	.0	.0	*	1.1	11.0	23.7	967
12615	1.6	11.5	8.9	1.7	*	*	.0	.7	10.8	24.5	999
18621	1.4	11.9	13.8	2.5	.1	.0	.0	.9	12.0	30.7	1253
TOT	250	1705	1625	341	9	2	2	143	11.5		4077
PCT	6.1	41.8	39.9	8.4	.2	*	*	3.5		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION					TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSD			
N	5.9	1.3	1.8	.3	328	2.6	
NNE	5.4	1.6	1.6	.4	315	2.6	
NE	10.6	3.6	2.5	.6	609	2.4	
ENE	8.7	2.0	1.6	.2	440	2.2	
E	11.3	3.5	2.5	.5	633	2.5	
ESE	3.9	1.5	1.3	.3	246	2.8	
SE	2.8	1.2	1.1	.2	189	3.0	
SSE	1.5	.5	.5	.1	90	2.6	
S	1.8	.5	.5	.2	105	2.8	
SSW	1.0	.1	.3	.1	53	2.8	
SW	1.3	.7	.4	*	85	2.8	
WSW	.7	.3	.1	*	38	2.4	
W	1.1	.5	.4	*	69	2.9	
WNW	.6	.1	.3	.1	38	3.3	
NW	1.3	.5	.3	.2	79	2.7	
NNW	2.0	.4	.6	.1	109	2.3	
VAR	*	*	.0	.0	2	2.0	
CALM	2.2	.5	.5	.1	119	2.3	
TOT	2192	661	577	117	3547	2.5	
PCT	61.8	18.6	16.3	3.3	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										NH <5/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+		
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	*	.0	.1	.1	.5	.3	.1	*	.1	8.0	328
NNE	.0	.0	*	.1	.6	.3	.1	.1	*	.1	7.6	315
NE	*	.0	.0	.3	.5	.6	.1	.1	.1	.1	15.4	609
ENE	.0	*	.0	.1	.3	.3	.1	.0	.1	.1	11.6	440
E	.0	.0	.1	.2	.4	.4	.3	.1	.0	.1	16.2	633
ESE	.0	.0	.0	.1	.2	.3	.2	.0	*	*	6.1	246
SE	.0	.0	.0	*	.3	.3	.1	*	*	.0	4.6	189
SSE	*	.0	.0	.1	*	.0	.0	.0	.0	.0	2.4	90
S	.0	.0	.0	.0	.2	.2	.0	.1	.0	.0	2.6	105
SSW	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	1.3	53
SW	.0	.0	*	*	*	.1	.0	*	.0	.0	2.2	85
WSW	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	1.0	38
W	*	.0	.0	.0	*	*	.1	.0	.0	.0	1.8	69
WNW	.0	.0	*	.0	.1	*	*	.0	*	.0	.9	38
NW	.0	.0	.0	.0	.0	.1	.0	.1	.0	.1	2.0	79
NNW	.0	.0	.0	*	.1	.2	.1	.1	.0	*	2.6	109
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2
CALM	.0	.0	.0	.1	*	.2	.1	.0	*	.1	2.9	119
TOT	3	2	7	36	106	121	51	21	10	22	3168	3547
PCT	.1	.1	.2	1.0	3.0	3.4	1.4	.6	.3	.6	89.3	100.0



MARCH

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	.6	.9	.9	.9	.9	.9	.9
= OR >5000	1.0	1.5	1.5	1.5	1.5	1.5	1.5
= OR >3500	2.1	2.8	2.8	2.8	2.8	2.8	2.8
= OR >2000	4.7	6.2	6.2	6.3	6.3	6.3	6.3
= OR >1000	7.0	9.1	9.1	9.2	9.2	9.2	9.2
= OR >600	7.8	10.1	10.1	10.2	10.2	10.2	10.2
= OR >300	8.0	10.3	10.3	10.4	10.4	10.4	10.4
= OR >150	8.0	10.3	10.4	10.4	10.4	10.4	10.4
= OR > 0	8.1	10.4	10.5	10.5	10.5	10.5	10.5
TOTAL	287	370	373	374	374	374	374

TOTAL NUMBER OF OBS: 3565

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
23.1	25.8	25.4	9.7	5.3	3.6	4.1	1.7	1.3	.1	3796

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

MARCH

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	NO PCP	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1	
	TOTAL	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	.1	
2<5	PCP	.0	.0	.0	.0	*	.0	.0	*	*	.0	.0	.0	.0	.0	*	*	.0	.0	5	.1	
	NO PCP	.1	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	6	.2	
	TOTAL	4	0	0	0	2	0	0	1	1	0	0	0	0	0	1	1	0	1	11	.3	
5<10	PCP	.1	.0	.0	*	.0	*	*	.0	*	.0	*	.0	*	.0	*	*	.0	.0	11	.3	
	NO PCP	2.2	1.0	2.1	1.4	2.9	.9	.3	.3	.3	.4	.3	.1	.5	.4	.4	.8	.0	.6	513	14.9	
	TOTAL	78	33	71	50	101	32	13	12	11	14	11	4	18	13	15	27	0	21	524	15.2	
10<2	PCP	*	*	.1	*	.1	*	.1	*	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	13	.4	
	NO PCP	6.9	8.0	15.2	10.8	14.7	5.8	4.9	2.0	2.5	1.1	2.2	.9	1.4	.7	1.8	2.2	.1	2.8	2889	84.0	
	TOTAL	240	277	525	371	509	201	170	71	85	37	74	32	47	25	63	78	2	95	2902	84.4	
TOTAL	323	310	596	422	612	233	183	84	97	51	85	36	65	38	79	106	2	117	3439	100.0		
PCT	9.4	9.0	17.3	12.3	17.8	6.8	5.3	2.4	2.8	1.5	2.5	1.0	1.9	1.1	2.3	3.1	.1	3.4	100.0			

MARCH

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

AREA 00J GUANTANAMO  
18-20N 74-76W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	226>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	226>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.0
1<2	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	*	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	*	
	226>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	TOTAL	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	.1
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	*
	4-10	.1	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	4	.1
	11-21	*	.0	.0	.0	*	.0	*	*	.0	.0	.0	.0	.0	.0	*	*	.0	.0	0	6	.2
	226>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	.0
	TOTAL	4	0	0	0	2	0	0	1	1	0	0	0	0	0	1	1	0	0	1	11	.3
5<10	0-3	.1	.1	*	.1	.1	.0	*	*	.0	.0	.0	*	.1	.1	.1	.1	.0	.0	0	55	1.5
	4-10	1.0	.3	.4	.3	.5	.3	.2	.2	.2	.3	.1	.1	.3	.3	.2	.4	.0	.0	0	178	5.0
	11-21	1.0	.3	1.2	.7	1.8	.5	.1	.2	.1	.2	.2	*	.1	*	.1	.2	.0	.0	0	240	6.7
	226>	.1	.2	.5	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	0	63	1.8
	TOTAL	79	33	74	52	101	33	13	14	11	15	11	5	18	13	15	27	0	22	536	15.0	
10E>	0-3	1.0	.4	.4	.3	.5	.3	.3	.2	.4	.2	.2	.1	.1	.1	.4	.3	.1	2.7	275	7.7	
	4-10	2.7	2.4	3.9	2.1	4.1	1.9	2.0	.9	1.1	.6	1.0	.4	.8	.4	.9	1.1	.0	0	936	26.3	
	11-21	3.1	4.6	9.2	6.2	8.9	3.4	2.5	.9	1.1	.3	.8	.4	.5	.3	.5	.8	.0	0	1554	43.6	
	226>	.1	.5	1.7	2.4	1.5	.4	.1	.1	*	.0	.1	*	.0	.0	*	*	.0	0	251	7.0	
	TOTAL	244	282	542	392	534	211	175	76	93	38	75	33	51	26	65	81	2	96	3016	84.6	
TOTAL	328	315	616	445	637	244	188	91	105	53	86	38	69	39	81	109	2	119	3565	100.0		
PCT	9.2	8.8	17.3	12.5	17.9	6.8	5.3	2.6	2.9	1.5	2.4	1.1	1.9	1.1	2.3	3.1	.1	3.3	100.0			

MARCH

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	*	.0	.1	.1	.6	.9	.4	.2	.1	.2	99	19.7	842
06009	.0	*	.0	.3	.7	.6	.1	*	.1	.1	77	19.7	819
12015	*	.0	.1	.3	.8	.9	.5	.1	.1	.2	111	22.9	975
18021	*	*	*	.3	.6	.8	.3	.2	*	.1	97	27.6	1139
TOT	3	2	7	38	106	124	51	21	10	22	384	3391	3775
PCT	.1	.1	.2	1.0	2.8	3.3	1.4	.6	.3	.6	10.2	89.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	.0	3.6	18.7	800
06009	.0	.0	.0	.1	3.0	18.5	772
12015	.0	.0	*	.2	4.1	21.7	936
18021	.0	.0	*	.1	4.3	25.7	1080
TOT	0	0	2	11	539	3036	3588
PCT	.0	.0	.1	.3	15.0	84.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HR (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ &OR5+	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	2.7	19.6	800
06009	.0	.0	.0	2.1	19.4	772
12015	.0	.0	*	3.0	23.0	936
18021	.0	.0	*	2.6	27.4	1080
TOT	0	0	2	376	3210	3588
PCT	.0	.0	.1	10.5	89.5	100.0

MARCH

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
90/94	.0	.0	.0	*	.1	.0	.0	*	6	.2
85/89	.0	.0	.1	.5	1.7	1.2	.1	.1	109	3.6
80/84	.0	.0	*	1.3	9.4	14.4	4.5	1.1	929	30.8
75/79	*	.0	.2	1.1	6.6	27.4	16.3	4.0	1679	55.7
70/74	.0	.0	.0	.2	.9	2.6	3.7	1.4	266	8.8
65/69	.0	.0	.0	.0	.0	.4	.4	*	26	.9
60/64	.0	.0	.0	.0	.0	.0	*	.0	1	*
TOTAL	1	0	9	96	563	1390	757	200	3016	100.0
PCT	*	.0	.3	3.2	18.7	46.1	25.1	6.6		

TABLE 14

	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW				
90/94	*	*	*	.0	*	.0	*	.0	*	.0	.0	*
85/89	.5	.9	1.1	.3	.3	.3	.1	.1	.0	.2	.0	.2
80/84	3.2	8.1	9.3	3.9	1.8	1.4	1.3	.9	.0	.9	.0	.9
75/79	10.1	20.3	13.5	3.5	1.9	1.5	1.5	1.8	.1	1.6	.0	1.6
70/74	3.4	1.6	.6	.1	.2	.1	.4	1.8	.0	.7	.0	.7
65/69	.5	.0	.0	.0	.0	*	*	.2	.0	.1	.0	.1
60/64	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	538	932	739	236	125	100	98	142	2	154	.0	154
PCT	17.8	30.9	24.5	7.8	4.1	3.3	3.2	4.7	.1	3.4		3.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00Z03	89	85	82	78	74	72	68	78.6	858
06Z09	86	86	83	79	73	68	64	76.9	961
12Z15	88	88	84	79	71	67	65	76.6	1004
18Z21	91	89	86	80	76	74	72	80.9	1258
TOT	91	88	85	78	72	68	64	78.4	4081

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00Z03	.0	.6	3.8	12.0	4.9	1.4	76	688
06Z09	.0	.3	1.8	9.7	8.7	2.3	79	691
12Z15	*	.7	2.7	11.3	8.0	2.1	78	756
18Z21	.0	1.9	10.2	13.2	3.4	.9	72	901
TOT	1	105	565	1399	762	204	76	3036

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

MARCH

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	*	.1	*	5	.0	.2
11/13	.0	.0	.0	.1	.2	*	.0	11	.0	.3
9/10	.0	.0	*	.3	.3	.2	.2	33	.0	1.0
7/8	.0	.0	*	.2	*	.6	*	28	.0	.9
6	.0	.0	.0	.1	.5	.6	.0	39	.0	1.2
5	.0	.0	.2	*	.6	.7	.0	50	.0	1.5
4	.0	.0	.1	.2	1.6	.4	.0	77	.0	2.4
3	.0	.0	.1	1.2	2.0	.4	.0	119	.0	3.6
2	.0	.0	.1	1.9	3.7	.3	.0	197	.0	6.0
1	.0	.0	.2	2.5	3.3	.1	.0	209	.0	6.4
0	*	.0	.4	5.1	3.0	*	.0	378	.0	11.6
-1	.0	.0	.5	10.2	2.1	*	.0	424	.0	13.0
-2	.0	*	1.6	11.8	.5	.0	.0	455	*	13.9
-3	.0	.1	2.2	10.1	.5	.0	.0	422	.0	12.9
-4	.0	*	3.8	4.4	.1	.0	.0	271	.0	8.3
-5	*	.2	2.9	2.2	.0	*	.0	176	.0	5.4
-6	.0	.2	2.4	.9	*	.0	.0	113	*	3.5
-7/-8	*	1.2	2.4	.4	.0	.0	.0	132	*	4.0
-9/-10	.2	1.6	.9	.1	.0	.0	.0	91	.0	2.8
-11/-13	.3	.6	.1	.0	.0	.0	.0	34	.0	1.1
-14/-16	.1	.1	.0	.0	.0	.0	.0	7	.0	1.0
-17/-19	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	23	130	585	1799	613	112	10	3272	3	3269
PCT	.7	4.0	17.9	55.0	18.7	3.4	.3	100.0	.1	99.9

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

MARCH  
TABLE 18

AREA 003 GUANTANAMO  
18-20N 74-76W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						TOTAL	NE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	1.4	3.8	.7	.0	.0	.0	54	.3	2.8	.5	.0	.0	.0	34
1-2	.5	4.0	2.9	.3	.0	.0	72	.4	3.3	4.4	.7	.0	.0	81
3-4	.0	1.0	1.8	.3	.0	.0	29	.0	2.3	6.2	3.1	.1	.0	108
5-6	.0	.2	.5	.1	.0	.0	8	.0	.3	3.7	1.1	.0	.0	47
7	.0	.0	.2	.1	.0	.0	3	.0	.0	1.3	1.0	.0	.0	21
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.2	.0	.0	5
10-11	.0	.0	.0	.0	.1	.0	1	.1	.0	.1	.0	.1	.0	3
12	.0	.1	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	18	84	57	8	1	0	168	8	80	153	56	2	0	299
PCT	2.0	9.1	6.2	.9	.1	.0	18.2	.9	8.7	16.6	6.1	.2	.0	32.4

HGT	E						TOTAL	SE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.4	1.2	.2	.0	.0	.0	17	.3	.5	.5	.0	.0	.0	13
1-2	.1	5.1	4.2	.4	.0	.0	91	.4	1.6	1.3	.1	.0	.0	32
3-4	.1	2.6	5.3	2.6	.0	.0	98	.0	.7	.5	.1	.0	.0	12
5-6	.0	.5	1.8	.5	.0	.0	27	.0	.1	.2	.0	.0	.0	3
7	.0	.0	.8	.4	.0	.0	11	.0	.0	.2	.1	.0	.0	3
8-9	.0	.0	.3	.0	.0	.0	3	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.2	.0	.0	.0	2	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.1	.0	.0	1	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	6	87	119	38	0	0	250	7	27	26	3	0	0	63
PCT	.7	9.4	12.9	4.1	.0	.0	27.1	.8	2.9	2.8	.3	.0	.0	6.8

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

MARCH  
TABLE 18

AREA 003 GUANTANAMO  
18-20N 74-76W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.1	.9	.1	.0	.0	.0	10	.0	1.1	.1	.0	.0	.0	11	17	
1-2	.1	1.7	.8	.0	.0	.0	24	.1	.5	1.3	.0	.0	.0	20	348	
3-4	.1	.0	.2	.0	.0	.0	3	.0	.1	.2	.1	.0	.0	2	261	
5-6	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.1	.0	1	89	
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	41	
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	8	
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	6	
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	2	
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
TOTAL	3	24	10	0	0	0	37	1	16	15	1	1	0	34	922	
PCT	.3	2.6	1.1	.0	.0	.0	4.0	.1	1.7	1.6	.1	.1	.0	3.7	100.0	



MARCH

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)							
HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	6.8	12.1	2.3	.0	.0	.0	203
1-2	2.1	17.8	15.2	1.5	.0	.0	351
3-4	.2	6.9	13.9	6.0	.1	.0	261
5-6	.0	1.1	6.3	1.7	.1	.0	89
7	.0	.0	2.7	1.6	.0	.0	41
8-9	.0	.0	.6	.2	.0	.0	8
10-11	.1	.0	.3	.0	.2	.0	6
12	.0	.1	.0	.1	.0	.0	2
13-16	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	88	365	398	106	4	0	961
PCT	9.2	38.0	41.4	11.0	.4	.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TJTAL	MEAN HGT
<6	9.0	29.8	23.2	6.8	2.0	.1	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	732	2
6-7	.1	1.9	2.3	3.4	2.6	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	119	4
8-9	.0	.7	1.0	.9	1.1	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	5
10-11	.0	.4	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	3
12-13	.0	.1	.0	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
>13	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
INDET	9.4	1.3	.2	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	115	0
TOTAL	189	349	277	115	60	19	12	3	1	0	0	0	0	0	0	0	0	0	0	1025	2
PCT	18.4	34.0	27.0	11.2	5.9	1.9	1.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1953-1968  
(OVER-ALL) 1889-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT PCPN AT OB TIME	FREQ
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW			
N	.0	.1	.0	.0	.0	.0	.0	2	*	.0	.1	.0	4	195	.1	
NNE	*	.1	.0	.0	.0	.0	.0	3	.1	.0	.2	.0	8	317	.1	
NE	*	.1	*	.0	.0	.0	.0	3	.1	.0	.2	.0	10	645	.2	
ENE	.0	.1	*	.0	.0	.0	.0	5	.2	.0	.0	.0	7	487	.2	
E	.1	.2	*	.0	.0	.0	.0	10	.1	.0	.1	.0	5	552	.3	
ESE	*	.1	.0	.0	.0	.0	.0	3	.0	.0	.1	.0	2	202	.1	
SE	.0	.0	.0	.0	.0	.0	.0	0	*	.0	*	.0	2	174	.0	
SSE	.0	.1	.0	.0	.0	.0	.0	2	.0	.0	.0	.0	0	72	.1	
S	*	.0	.0	.0	.0	.0	.0	1	*	.0	.0	.0	1	68	*	
SSW	.0	*	.0	.0	.0	.0	.0	1	.0	.0	*	.0	1	64	*	
SW	.0	*	*	.0	.0	.0	.0	2	*	.0	*	.0	2	64	.1	
WSW	.0	.0	*	.0	.0	.0	.0	1	.1	.0	.0	.0	3	40	*	
W	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	*	.0	1	56	.0	
WNW	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.0	.0	2	32	.0	
NW	*	.1	.0	.0	.0	.0	.0	3	.0	.0	.1	.0	3	61	.2	
NNW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	91	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	4	.0	
CALM	*	*	.0	.0	.0	.0	.0	2	.0	.0	.1	.0	3	115	.1	
TOT	9	28	5	0	0	0	0	42	23	0	31	0	54	3239		
PCT	.3	.9	.2	.0	.0	.0	.0	1.3	.7	.0	1.0	.0	1.7	100.0	1.3	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT PCPN AT OB TIME	FREQ
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW			
00003	.0	.4	*	.0	.0	.0	.0	13	.4	.0	.3	.0	23	736	.4	
06009	.1	.2	.1	.0	.0	.0	.0	14	.3	.0	.1	.0	13	739	.4	
12015	.1	.1	*	.0	.0	.0	.0	7	.0	.0	.2	.0	7	830	.2	
18021	.1	.2	.0	.0	.0	.0	.0	8	*	.0	.3	.0	11	954	.2	
TOT	9	28	5	0	0	0	0	42	23	0	31	0	54	3259		
PCT	.3	.9	.2	.0	.0	.0	.0	1.3	.7	.0	1.0	.0	1.7	100.0	1.3	

APRIL

PERIOD: (PRIMARY) 1953-1968  
(OVER-ALL) 1889-1968

TABLE 3

AREA 003 GUANTANAMO  
18-20N 74-76W

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.7	3.5	1.7	.1	.0	.0	207	5.9	8.8	3.5	3.2	4.5	7.3	14.0	4.6	2.6	3.4
NNE	.5	4.4	4.2	.6	*	.0	344	9.8	11.8	11.6	16.1	10.8	8.8	11.5	6.5	6.9	6.9
NE	.9	6.1	9.4	3.2	.1	.0	693	19.7	14.4	22.1	19.4	24.6	20.0	20.8	18.3	15.6	10.8
ENE	.4	4.2	7.7	2.4	.1	.0	321	14.8	14.9	11.6	24.7	17.2	21.5	12.7	26.8	12.6	13.8
E	.7	7.3	7.3	1.7	*	.0	597	17.0	12.5	14.4	10.8	14.6	12.7	12.2	21.6	23.8	25.6
ESE	.5	2.8	2.7	.4	.0	.0	226	6.4	11.4	6.8	1.1	4.7	6.3	3.7	3.3	10.1	9.9
SE	.6	3.1	1.9	.1	.0	.0	199	5.7	9.4	6.2	2.2	3.4	5.9	3.5	5.2	8.6	8.4
SSE	.2	1.4	.6	*	.0	.0	79	2.2	8.8	3.2	.0	1.4	1.0	1.7	2.0	3.1	3.0
S	.3	1.2	.6	.0	.0	.0	73	2.1	8.3	1.5	2.2	1.3	1.0	1.8	2.0	3.5	3.0
SSW	.5	1.1	.5	.1	.0	*	73	2.1	9.1	2.7	1.1	2.0	1.5	1.1	2.0	2.5	3.0
SW	.2	1.1	.6	*	.0	.0	67	1.9	8.9	2.6	.0	1.4	1.0	1.4	2.6	2.4	2.5
WSW	.1	.7	.3	*	.0	.0	42	1.2	8.4	1.5	2.2	.9	1.0	.7	.7	1.4	2.0
W	.3	1.3	.2	*	.0	.0	64	1.8	7.3	3.0	6.5	2.2	2.0	.8	1.3	1.2	1.0
WNW	.1	.8	.2	.0	.0	.0	39	1.1	7.3	2.0	4.3	1.4	.5	.8	.7	.6	.0
NW	.2	1.3	.3	*	.0	.0	65	1.8	8.1	1.7	2.2	2.7	1.0	3.2	.7	.7	1.5
NNW	.3	1.7	.6	.0	.0	*	94	2.7	8.0	1.8	2.2	2.2	4.4	6.4	1.3	.8	1.0
VAR	.1	*	.0	.0	.0	.0	4	.1	2.5	.2	1.1	.2	.0	.0	.0	.0	.5
CALM	3.6						128	3.6	.0	3.6	1.1	4.5	4.4	3.7	.7	3.5	3.9
TOT	362	1473	1364	305	9	2	3515	100.0	11.5	661	93	639	205	722	153	839	203
PCT	10.3	41.9	38.8	8.7	.3	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	4.4	9.0	2.2	.2	.0	551	15.7	10.7	15.1	19.4	15.3	16.1	25.5	11.1	9.5	10.3
NE	4.4	17.6	11.0	1.6	.0	1214	34.5	14.6	33.7	44.1	41.8	41.5	33.5	45.1	28.2	24.6
E	4.8	13.3	4.9	.4	.0	823	23.4	12.2	21.2	11.8	19.2	19.0	15.9	24.8	34.0	35.5
SE	2.8	4.5	.7	.0	.0	278	7.9	9.3	9.4	2.2	4.9	6.8	5.1	7.2	11.7	11.3
S	1.8	2.2	.1	.0	*	146	4.2	8.7	4.2	3.2	3.3	2.4	2.9	3.9	6.0	5.9
SW	1.3	1.5	.3	.0	.0	109	3.1	8.7	4.1	2.2	2.3	2.0	2.1	3.3	3.8	4.4
W	1.4	1.5	.1	.0	.0	103	2.9	7.3	5.0	10.8	3.6	2.4	1.7	2.0	1.8	1.0
NW	2.0	2.3	.2	.0	*	159	4.5	8.0	3.5	4.3	4.9	5.4	9.6	2.0	1.5	2.5
VAR	.1	.0	.0	.0	.0	4	.1	2.5	.2	1.1	.2	.0	.0	.0	.0	.5
CALM	3.6					128	3.6	.0	3.6	1.1	4.5	4.4	3.7	.7	3.5	3.9
TOT	936	1825	678	74	2	3515	100.0	11.5	661	93	639	205	722	153	839	203
PCT	26.6	51.9	19.3	2.1	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1953-1968  
(OVER-ALL) 1889-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00603	1.1	8.6	8.6	2.3	.1	.0	.1	.7	12.3	21.5	754
06609	1.7	10.3	8.8	2.0	.1	*	*	1.1	11.2	24.0	844
12615	1.9	11.0	9.6	1.5	.1	*	.0	.8	10.9	24.9	875
18621	1.9	11.9	11.8	2.9	.1	.0	*	1.1	11.7	29.6	1042
TOT	231	1472	1364	305	.9	2	4	128	11.5		3515
PCT	6.6	41.9	38.8	8.7	.3	.1	.1	3.6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD		
N	3.9	1.0	1.2	.2	194	2.6
NNE	5.0	2.4	2.0	.4	303	3.0
NE	9.4	5.1	4.2	.8	606	3.1
ENE	8.3	3.3	2.9	.3	461	2.8
E	8.7	3.5	3.7	.8	529	3.0
ESE	2.8	1.5	1.8	.3	197	3.4
SE	2.6	1.3	1.5	.1	169	3.1
SSE	.9	.6	.5	.2	68	3.5
S	.9	.6	.5	.1	66	3.2
SSW	.8	.6	.6	.1	65	3.4
SW	1.1	.4	.4	.1	62	3.1
WSW	.6	.2	.4	.1	38	3.5
W	1.4	.2	.2	.0	56	2.0
WNW	.5	.1	.3	.1	31	3.6
NW	1.1	.4	.2	.2	61	2.8
NNW	1.9	.4	.6	.1	92	2.6
VAR	*	.1	.0	.0	3	2.7
CALM	1.7	.7	.8	*	102	2.9
TOT	1605	705	673	120	3103	3.0
PCT	51.7	22.7	21.7	3.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										NH <5/8 ANY HGT	TOTAL OBS
	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+		
N	.0	.0	*	*	.3	.2	*	.0	.0	*	5.6	194
NNE	.0	.0	.1	.1	.2	.3	*	.0	.0	*	9.1	303
NE	.0	.0	*	.4	.6	1.0	.2	.2	*	.2	17.0	606
ENE	.0	.0	.0	.2	.5	.7	.1	.1	.1	.1	13.1	461
E	.0	.0	*	.2	.4	.8	.1	.1	.0	*	15.5	529
ESE	.0	.0	.0	*	.4	.2	*	.0	.0	.0	5.7	197
SE	.0	.0	.0	.1	.1	.2	.1	.0	.0	*	5.0	169
SSE	.0	.0	.0	.1	.1	.1	*	.0	*	.0	1.9	68
S	.0	.0	.0	.0	.1	.0	*	.0	.0	.0	2.0	66
SSW	.0	.0	.0	.0	.1	.1	.0	*	.1	.1	1.7	65
SW	.0	.0	.0	*	.1	.1	.0	.0	.0	.0	1.8	62
WSW	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	1.1	38
W	.0	.0	.0	.0	.0	.1	*	*	.0	.0	1.6	56
WNW	.0	.0	.0	*	*	.1	.0	.0	*	.0	.8	31
NW	.0	.0	.0	*	.1	.1	.0	.0	*	.1	1.6	61
NNW	.0	.0	.0	.1	*	*	*	.0	.0	.1	2.7	92
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	3
CALM	.0	.0	.0	.1	.2	.1	.1	.0	*	*	2.8	102
TOT	0	0	3	39	98	133	24	13	9	20	2762	3103
PCT	.0	.0	.2	1.3	3.2	4.3	.8	.4	.3	.6	89.0	100.0

APRIL

PERIOD: (PRIMARY) 1953-1968  
(OVER-ALL) 1889-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	.5	.9	.9	.9	.9	.9	.9
= OR >5000	.8	1.4	1.4	1.4	1.4	1.4	1.4
= OR >3500	1.4	2.1	2.1	2.1	2.1	2.1	2.1
= OR >2000	4.8	6.4	6.4	6.4	6.4	6.4	6.4
= OR >1000	7.2	9.2	9.5	9.5	9.5	9.5	9.5
= OR >600	8.2	10.4	10.7	10.7	10.8	10.8	10.8
= OR >300	8.3	10.6	10.9	10.9	10.9	10.9	10.9
= OR >150	8.3	10.6	10.9	10.9	10.9	10.9	10.9
= OR > 0	8.3	10.6	10.9	10.9	10.9	10.9	10.9
TOTAL	258	329	337	338	339	339	339

TOTAL NUMBER OF OBS: 3103

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
18.4	24.5	27.1	12.5	6.5	4.0	4.4	1.6	.9	.0	3256

APRIL

PERIOD: (PRIMARY) 1953-1968  
(OVER-ALL) 1889-1968

TABLE 8

AREA 003 GUANTANAMO  
18-20N 74-76W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<1/2	NO PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	1	*
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	*
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1	*
1<2	NO PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	2	.1
	PCP	*	*	.1	*	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	7	.2
2<5	NO PCP	*	.0	.0	.0	*	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	3	.1
	TOTAL	2	1	2	1	2	0	0	0	0	1	1	0	0	0	0	0	0	0	10	.3
	PCP	*	*	.1	.1	.1	.0	.0	*	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	13	.4
5<10	NO PCP	1.6	1.6	2.5	2.1	2.0	.9	.6	.3	.2	.4	.3	.2	.3	.2	.4	1.1	.0	.4	453	14.9
	TOTAL	49	49	78	65	66	28	17	10	6	12	8	7	10	5	13	32	0	11	466	15.3
	PCP	.0	*	*	.0	.1	*	.0	.0	.0	.0	.0	*	.0	.0	.1	.0	.0	.1	11	.4
10<5	NO PCP	4.6	8.1	16.9	12.8	14.7	5.3	4.9	1.8	1.9	1.6	1.7	1.0	1.5	.8	1.4	1.9	.1	2.9	252	83.9
	TOTAL	140	249	514	389	449	162	148	55	58	50	51	30	45	25	46	59	3	90	2563	84.2
	TOTAL	191	300	594	455	518	190	165	65	64	63	61	37	55	30	60	91	3	101	3043	100.0
	PCT	6.3	9.9	19.5	15.0	17.0	6.2	5.4	2.1	2.1	2.1	2.0	1.2	1.8	1.0	2.0	3.0	.1	3.3	100.0	

APRIL

PERIOD: (PRIMARY) 1953-1968  
(OVER-ALL) 1889-1968

TABLE 9

AREA 003 GUANTANAMO  
18-20N 74-76W

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	22<	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	22<	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	*
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1	*
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	22<	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	2	.1
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1	*
	4-10	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	11-21	*	*	*	.0	.1	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	6	.2
	22<	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	2	1	2	1	2	0	0	0	0	1	1	0	0	0	0	0	0	0	10	.3
5<10	0-3	.2	*	.1	.1	*	.1	*	.1	.0	*	.0	.0	.1	*	.1	.1	.0	.4	39	1.3
	4-10	.8	.7	.5	.4	.6	.5	.4	.2	.1	.2	.1	.1	.3	.1	.3	.7	.0	.0	171	5.5
	11-21	.7	.7	1.5	1.1	1.2	.5	.1	.1	.1	.1	.2	.1	.0	*	.1	.3	.0	.0	209	6.7
	22<	.0	.1	.4	.6	.4	.1	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	51	1.6
	TOTAL	50	49	78	66	67	28	17	11	6	12	8	7	10	5	13	32	0	11	470	15.1
10<	0-3	.5	.5	.6	.4	.5	.4	.5	.2	.3	.4	.2	.1	.2	*	.2	.3	.1	2.9	255	8.2
	4-10	2.1	2.6	3.6	2.1	4.3	1.9	2.1	.8	.8	.6	.8	.5	.8	.6	.9	1.1	.0	.0	795	25.6
	11-21	1.9	4.6	9.8	8.1	8.5	2.8	2.2	.8	.8	.6	.7	.4	.4	.2	.5	.5	.0	.0	1325	42.7
	22<	.1	.5	2.9	2.2	1.5	.4	.1	*	.0	.1	*	*	*	.0	*	*	.0	.0	244	7.9
	TOTAL	143	252	524	394	460	169	152	57	59	52	52	31	46	26	48	60	3	91	2619	84.4
TOTAL	195	303	604	461	530	197	169	68	65	65	62	38	56	31	62	92	3	102	3103	100.0	
PCT	6.3	9.8	19.5	14.9	17.1	6.3	5.4	2.2	2.1	2.1	2.0	1.2	1.8	1.0	2.0	3.0	.1	3.3	100.0		

APRIL

PERIOD: (PRIMARY) 1953-1968  
(OVER-ALL) 1889-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	*	.2	.8	1.3	.2	.1	.1	.2	95	19.8	738
06009	.0	.0	*	.3	.6	1.0	.1	.1	.1	.2	77	19.3	704
12015	.0	.0	.1	.6	1.0	.9	.2	.1	.1	.2	100	22.9	844
18021	.0	.0	*	.2	.6	1.0	.2	.2	.0	*	71	27.3	956
TOT	0	0	5	39	98	135	24	13	9	20	343	2899	3242
PCT	.0	.0	.2	1.2	3.0	4.2	.7	.4	.3	.6	10.6	89.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	*	.0	.0	.1	3.5	19.1	710
06009	.0	.0	.0	.1	3.1	18.4	674
12015	.0	*	.0	.2	4.1	21.9	817
18021	.0	.0	.1	.0	4.4	25.0	917
TOT	1	1	2	10	473	2631	3118
PCT	*	*	.1	.3	15.2	84.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND  
CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ 60R5+	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	*	3.0	19.7	710
06009	.0	.0	.0	2.5	19.1	674
12015	.0	.0	.0	3.1	23.1	817
18021	.0	.0	.0	2.2	27.2	917
TOT	0	0	1	339	2778	3118
PCT	.0	.0	*	10.9	89.1	100.0



APRIL

PERIOD: (PRIMARY) 1953-1968  
(OVER-ALL) 1889-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
90/94	.0	.0	.0	*	.2	.2	*	.0	10	.4
85/89	.0	.0	*	.7	2.2	2.3	.5	.2	154	5.8
80/84	.0	.0	.2	1.1	9.2	21.7	10.4	1.9	1178	44.5
75/79	.0	.0	*	.6	4.8	21.2	13.5	4.4	1177	44.5
70/74	.0	.0	.0	.0	.4	1.2	2.2	.5	115	4.3
65/69	.0	.0	.0	.0	*	.1	.2	*	10	.4
60/64	.0	.0	.0	.0	.0	.0	.0	*	1	*
TOTAL	0	0	7	63	443	1236	710	186	2645	100.0
PCT	.0	.0	.3	2.4	16.7	46.7	26.8	7.0		

TABLE 14

	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP									VAR	CALM
	N	NE	E	SE	S	SW	W	NW			
90/94	.1	*	.2	*	.0	*	.0	.0	.0	.0	*
85/89	.6	1.2	2.0	.8	.3	.3	.2	.1	.0	.0	.3
80/84	5.0	13.3	13.0	4.5	2.8	1.7	1.6	1.1	.1	1.6	
75/79	8.0	20.0	7.8	2.3	1.1	1.1	1.0	2.0	*	1.2	
70/74	2.0	.4	.2	*	.1	*	.1	1.1	.0	.3	
65/69	.1	.0	*	.0	.0	.0	.0	.2	.0	*	
60/64	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	
TOTAL	419	925	614	204	110	83	74	120	4	92	
PCT	15.8	35.0	23.2	7.7	4.2	3.1	2.8	4.5	.2	3.5	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	89	86	83	80	76	74	68	79.5	752
06&09	87	84	82	78	73	69	66	78.1	842
12&15	89	85	82	78	72	70	68	78.2	873
18&21	93	91	87	81	77	75	62	82.1	1044
TOT	93	87	84	79	74	70	62	79.6	3511

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.5	3.0	11.8	5.5	1.4	77	592
06&09	.0	.1	1.3	10.3	8.3	2.6	80	600
12&15	.0	.2	3.5	10.9	9.0	1.8	78	677
18&21	.0	1.8	8.9	13.7	4.0	1.3	72	790
TOT	0	70	445	1243	714	187	77	2659

PERIOD: (PRIMARY) 1953-1968  
(OVER-ALL) 1889-1968

APRIL

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65	69	73	77	81	85	89	93	TOT	W FOG	WO FOG
	68	72	76	80	84	88	92	96			
14/16	.0	.0	.0	.0	*	.0	.0	.0	1	.0	*
11/13	.0	.0	.0	.0	*	.1	*	.1	7	.0	.2
9/10	.0	.0	.0	*	.0	.1	.3	.0	11	.0	.4
7/8	.0	.0	.0	.1	.2	.5	.2	.0	31	.0	1.0
6	.0	.0	.0	*	.2	.9	.1	.0	35	.0	1.2
5	.0	.0	.0	.1	.4	1.3	.1	.0	59	.0	2.0
4	.0	.0	*	.3	1.6	.9	*	.0	88	.0	3.0
3	.0	.0	.0	.4	2.4	1.1	.0	.0	116	.0	3.9
2	.0	.0	.0	1.2	3.2	.3	.0	.0	142	.0	4.8
1	.0	*	.0	2.6	5.0	.2	.0	.0	231	.0	7.8
0	.0	.0	.2	6.6	6.3	*	.0	.0	390	.0	13.1
-1	.0	.0	.2	8.3	4.4	.0	.0	.0	383	.0	12.9
-2	.0	.0	.9	13.5	2.6	*	.0	.0	508	.0	17.1
-3	.0	.0	1.0	9.1	1.3	.0	.0	.0	340	.0	11.4
-4	.0	*	1.6	6.1	.3	.0	.0	.0	240	.0	8.1
-5	.0	*	1.4	2.6	.1	.0	*	.0	125	.0	4.2
-6	.0	.1	2.3	.8	*	.0	.0	.0	95	.0	3.2
-7/-8	.0	.4	2.0	.4	.1	.0	.0	.0	87	.0	2.9
-9/-10	.0	1.0	.7	.1	*	.0	.0	.0	53	.0	1.8
-11/-13	.1	.5	.2	*	*	.0	.0	.0	27	.0	.9
-14/-16	*	*	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	4	65	313	1559	841	165	22	2	2971	0	2971
PCT	.1	2.2	10.5	52.5	28.3	5.6	.7	.1	100.0		100.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

APRIL  
TABLE 18

AREA 003 GUANTANAMO  
18-20N 74-76W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						TOTAL	NE					48+	TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37		
<1	.5	2.5	.1	.0	.0	.0	24	.6	.9	.4	.0	.0	.0	15
1-2	.1	3.1	1.4	.0	.0	.0	36	.3	4.1	4.5	1.3	.0	.0	79
3-4	.1	1.0	1.8	.8	.0	.0	29	.3	2.6	10.2	4.3	.0	.0	134
5-6	.0	.0	1.0	.1	.0	.0	9	.0	.6	5.7	1.6	.3	.0	63
7	.0	.3	.3	.0	.0	.0	4	.0	.0	.8	1.3	.0	.0	16
8-9	.0	.0	.1	.3	.0	.0	3	.0	.0	.3	.5	.0	.0	6
10-11	.0	.0	.0	.1	.0	.0	1	.0	.0	.0	.3	.0	.0	2
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.1	.0	.0	1
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	6	53	37	10	0	0	106	9	64	169	72	2	0	316
PCT	.8	6.8	4.8	1.3	.0	.0	13.7	1.2	8.3	21.8	9.3	.3	.0	40.8

HGT	E					TOTAL	SE					48+	TOTAL	
	1-3	4-10	11-21	22-33	34-37		48+	1-3	4-10	11-21	22-33			34-37
<1	.5	2.7	.8	.0	.0	.0	31	.3	1.0	.0	.0	.0	.0	10
1-2	.5	3.2	4.7	.9	.0	.0	72	.3	.8	1.2	.0	.0	.0	17
3-4	.1	2.3	5.6	1.8	.1	.0	77	.3	.5	.5	.0	.0	.0	10
5-6	.0	.4	1.4	1.4	.0	.0	25	.0	.3	.4	.0	.0	.0	5
7	.0	.1	1.4	.1	.0	.0	13	.0	.0	.0	.0	.0	.0	0
8-9	.0	.1	.1	.0	.0	.0	2	.0	.0	.1	.0	.0	.0	1
10-11	.0	.0	.0	.3	.0	.0	2	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	9	69	108	35	1	0	222	6	20	17	0	0	0	43
PCT	1.2	8.9	14.0	4.5	.1	.0	28.7	.8	2.6	2.2	.0	.0	.0	5.6

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

APRIL  
TABLE 18

AREA 003 GUANTANAMO  
18-20N 74-76W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.6	.8	.0	.0	.0	.0	11	.0	.9	.1	.0	.0	.0	.0	8	
1-2	.3	.8	.3	.0	.0	.0	10	.3	.8	.1	.0	.0	.0	.0	9	
3-4	.0	.3	.0	.0	.0	.0	2	.0	.3	.1	.0	.0	.0	.0	3	
5-6	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
TOTAL	7	14	2	0	0	0	23	2	15	3	0	0	0	20		
PCT	.9	1.8	.3	.0	.0	.0	3.0	.3	1.9	.4	.0	.0	.0	2.6		

HGT	M							NW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.3	.6	.1	.1	.0	.0	9	.1	1.9	.1	.0	.0	.0	.0	17	125
1-2	.0	.8	.1	.0	.0	.0	7	.0	.5	.3	.0	.0	.0	.0	6	236
3-4	.0	.3	.0	.0	.0	.0	2	.0	.1	.3	.0	.0	.0	.0	3	260
5-6	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	102
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	33
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	12
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	5
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	1
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	2	13	2	1	0	0	18	1	20	5	0	0	0	26	774	
PCT	.3	1.7	.3	.1	.0	.0	2.3	.1	2.6	.6	.0	.0	.0	3.4	100.0	

APRIL

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)							
HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	5.2	11.1	1.6	.1	.0	.0	143
1-2	1.9	13.7	12.2	2.1	.0	.0	238
3-4	.8	7.2	18.0	6.7	.1	.0	260
5-6	.0	1.3	8.3	3.0	.3	.0	102
7	.0	.4	2.4	1.4	.0	.0	33
8-9	.0	.1	.6	.8	.0	.0	17
10-11	.0	.0	.0	.6	.0	.0	5
12	.0	.0	.0	.1	.0	.0	1
13-16	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	62	268	343	118	3	0	794
PCT	7.8	33.8	43.2	14.9	.4	.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.9	22.1	27.0	7.9	2.6	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	547	2
6-7	.0	2.0	4.9	5.0	2.1	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	129	4
8-9	.1	.2	.6	1.1	1.3	.8	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	5
10-11	.0	.5	.4	.4	.1	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	5
12-13	.0	.2	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
>13	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
INDET	11.4	2.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123	0
TOTAL	132	235	286	124	53	18	5	2	1	1	0	0	0	0	0	0	0	0	0	857	2
PCT	15.4	27.4	33.4	14.5	6.2	2.1	.6	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1888-1968AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 1

## PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT PCPN AT OBS TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW		
N	.1	.1	*	.0	.0	.0	.0	7	.1	.0	.2	.0	9	205	.2
NNE	.0	.1	*	.0	.0	.0	.0	3	.2	.0	.1	*	9	270	.1
NE	.2	.2	*	.0	.0	.0	.0	12	.6	*	.1	.0	22	524	.4
ENE	.1	.1	.0	.0	.0	.0	.0	6	.3	.0	.1	.0	11	399	.2
E	.3	.2	.1	.0	.0	.0	.0	16	.5	.0	.2	.0	21	635	.5
ESE	.2	.2	*	.0	.0	.0	.0	13	.2	.0	*	.0	7	282	.4
SE	*	.2	*	.0	.0	.0	.0	7	.1	.0	*	.0	5	207	.2
SSE	.0	.0	.0	.0	.0	.0	.0	0	*	.0	.0	.0	1	98	.0
S	.0	*	.0	.0	.0	.0	*	2	*	.0	.0	.0	1	68	.1
SSW	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.1	.0	5	45	.0
SW	.0	*	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	0	44	*
WSW	*	*	.0	.0	.0	.0	.0	2	.0	.0	.0	.0	0	22	.1
W	*	.0	*	.0	.0	.0	.0	2	.1	.0	.0	.0	2	38	.1
WNW	.0	*	.0	.0	.0	.0	.0	1	.1	.0	.0	.0	2	25	*
NW	.0	.1	*	.0	.0	.0	.0	4	*	.0	.0	.0	1	62	.1
NNW	.0	*	.0	.0	.0	.0	.0	1	.1	.0	*	.0	3	95	*
VAR	.0	*	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	0	1	*
CALM	*	.0	.0	.0	.0	.0	.0	1	.1	.0	.1	.0	4	84	*
TOT	31	38	9	0	0	0	1	79	76	1	25	1	103	3104	
PCT	1.0	1.2	.3	.0	.0	.0	*	2.5	2.4	*	.8	*	3.3	100.0	2.5

TABLE 2

## PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT PCPN AT OBS TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW		
00203	.1	.3	*	.0	.0	.0	.0	13	.9	.0	.3	.0	37	729	.4
0609	.3	.3	.1	.0	.0	.0	*	29	1.4	.0	.1	.0	46	721	.9
12215	.4	.1	.1	.0	.0	.0	.0	19	.2	*	.3	.0	14	802	.6
18221	.3	.4	*	.0	.0	.0	.0	23	.0	.0	.2	*	6	873	.7
TOT	32	42	9	0	0	0	1	84	76	1	25	1	103	3125	
PCT	1.0	1.3	.3	.0	.0	.0	*	2.7	2.4	*	.8	*	3.3	100.0	2.7

## MAY

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1888-1968

TABLE 3

AREA 003 GUANTANAMO  
18-20N 74-76W

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.8	4.3	1.2	*	.0	.0	213	6.3	7.8	5.4	9.0	6.4	7.4	12.2	1.7	2.6	2.6
NNE	.7	4.4	3.3	.2	.0	.0	293	8.7	10.4	9.9	9.0	8.6	8.0	11.1	6.8	5.9	8.5
NE	.9	7.6	7.5	1.1	*	.0	381	17.2	11.8	19.9	15.4	18.8	22.7	15.3	19.5	14.2	15.9
ENE	.5	4.3	6.2	1.7	.0	.0	430	12.7	13.7	10.9	19.2	16.7	14.2	10.8	24.6	11.8	5.8
E	1.0	9.0	9.1	.9	*	.0	680	20.1	11.6	18.4	17.9	22.2	14.8	17.9	16.1	24.1	20.1
ESE	.8	4.3	3.8	.3	.0	.0	312	9.2	10.9	8.7	5.1	6.9	4.0	7.8	6.8	14.0	13.2
SE	.6	3.8	2.1	.2	.0	.0	228	6.7	9.9	6.9	1.3	5.4	6.3	5.1	7.6	9.9	6.3
SSE	.2	2.0	.9	*	.0	.0	107	3.	8.8	2.5	1.3	1.6	1.7	4.2	5.1	4.0	4.2
S	.2	1.4	.6	.0	.0	.0	76	2.2	8.2	2.4	1.3	1.8	3.4	1.6	2.5	2.9	2.1
SSW	.2	.8	.4	*	*	.0	47	1.4	8.8	1.9	.0	.5	1.7	.7	.8	1.7	4.8
SW	.2	1.0	.3	.0	.0	.0	49	1.4	8.0	1.9	.0	.6	.6	.7	2.5	1.7	5.3
WSW	.1	.6	.1	.0	.0	.0	25	.7	7.7	1.3	1.3	.5	1.1	.4	.0	.4	2.1
W	.5	.7	.1	.0	.0	.0	45	1.3	5.9	1.3	2.6	1.1	1.7	.8	2.5	1.4	2.1
WNW	.1	.7	.1	.0	.0	.0	29	.9	6.7	1.2	2.6	.3	1.1	1.2	.0	.6	.5
NW	.5	1.3	.2	.0	.0	.0	67	2.0	6.3	2.1	3.8	2.9	3.4	1.9	1.7	.8	2.1
NNW	.5	2.0	.5	.0	*	.0	99	2.9	7.2	1.5	6.4	3.3	4.5	5.5	.8	1.2	2.6
VAR	*	.0	.0	.0	.0	.0	1	*	1.0	.1	.0	.0	.0	.0	.0	.0	.0
CALM	2.9						98	2.9	.0	3.8	3.8	2.4	3.4	2.7	.8	3.1	1.6
TOT	360	1631	1230	155	4	0	3380	100.0	10.4	680	78	627	176	731	118	781	189
PCT	10.7	48.3	36.4	4.6	.1	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40					00	03	06	09	12	15	18	21
N	5.6	7.9	1.5	*	.0	506	15.0	9.3	15.3	17.9	15.0	15.3	23.3	8.5	8.5	11.1
NE	5.5	17.0	6.9	.5	.0	1011	29.9	12.6	30.7	34.6	35.6	36.9	26.1	44.1	26.0	21.7
E	6.4	17.7	5.1	.1	.0	992	29.3	11.4	27.1	23.1	29.0	18.8	25.7	22.9	38.0	33.3
SE	3.2	5.9	.8	.0	.0	335	9.9	9.5	9.4	2.6	7.0	8.0	9.3	12.7	13.8	10.6
S	1.6	2.0	.1	*	.0	123	3.6	8.5	4.3	1.3	2.2	5.1	2.3	3.4	4.6	6.9
SW	.9	1.2	.1	.0	.0	74	2.2	7.9	3.2	1.3	1.1	1.7	1.1	2.5	2.0	7.4
W	1.4	.7	.1	.0	.0	74	2.2	6.2	2.5	5.1	1.4	2.8	2.1	2.5	2.0	2.6
NW	2.8	2.0	.1	*	.0	166	4.9	6.9	3.5	10.3	6.2	8.0	7.4	2.5	1.9	4.8
VAR	*	.0	.0	.0	.0	1	*	1.0	.1	.0	.0	.0	.0	.0	.0	.0
CALM	2.9					98	2.9	.0	3.8	3.8	2.4	3.4	2.7	.8	3.1	1.6
TOT	1021	1837	497	25	0	3380	100.0	10.4	680	78	627	176	731	118	781	189
PCT	30.2	54.3	14.7	.7	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1888-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	2.0	10.0	8.0	1.4	.1	.0	*	.9	10.7	22.4	758
06&09	1.6	12.9	7.5	1.1	.0	.0	.0	.6	9.9	23.8	803
12&15	1.8	13.0	8.9	.8	.0	.0	.0	.6	9.9	25.1	849
18&21	2.2	12.3	12.0	1.3	.1	.0	.0	.8	11.0	28.7	970
TOT	261	1631	1230	155	4	0	1	98	10.4		3380
PCT	7.7	48.3	36.4	4.6	.1	.0	*	2.9		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION					MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBS	TOTAL OBS	
N	2.8	1.6	1.9	.5	201	3.5
NNE	3.6	1.7	2.4	.7	249	3.6
NE	6.9	4.0	4.1	1.3	478	3.5
ENE	5.1	3.1	4.2	.9	389	3.7
E	6.0	4.9	7.4	2.1	601	4.2
ESE	2.2	3.0	3.3	.9	275	4.3
SE	1.8	1.8	2.2	.5	187	4.1
SSE	1.2	.8	1.0	.2	95	3.8
S	.5	.6	.9	.3	66	4.6
SSW	.6	.3	.4	.1	39	3.4
SW	.5	.2	.6	.1	41	3.9
WSW	.3	*	.3	.1	21	4.2
W	.5	.2	.4	.1	37	3.5
WNW	.4	.2	.2	*	24	3.3
NW	.8	.4	.6	.2	58	3.6
NNW	1.6	.7	.8	.1	93	3.2
VAR	.0	.0	.0	.0	0	.0
CALM	1.2	.7	.7	.2	81	3.4
TOT	1061	709	919	246	2935	3.8
PCT	36.1	24.2	31.3	8.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION											NH <5/8 ANY HGT	TOTAL OBS
000	150	300	600	1000	2000	3500	5000	6500	8000+			
149	299	599	999	1999	3499	4999	6499	7999				
*	.0	.0	.1	.2	.3	.1	.1	.0	.1	5.9	201	
.0	*	*	.2	.2	.2	.1	*	.0	.1	7.5	249	
*	*	.1	.3	.8	.4	.2	.1	.1	*	14.3	478	
.0	.0	.1	.3	.6	.7	.1	*	*	.1	11.2	389	
.1	.1	.1	.6	1.3	1.1	.4	.1	*	.1	16.5	601	
.1	.0	.1	.4	.5	.2	.1	.0	.1	.0	7.9	275	
.0	.0	.1	.2	.4	.4	.1	*	*	*	5.2	187	
.0	.0	.0	.0	.3	.3	.0	.0	.1	.0	2.6	95	
.0	.0	.0	.1	.1	.2	.1	*	.0	*	1.8	66	
.0	.0	.0	*	*	.1	.0	.0	.0	*	1.2	39	
.0	.0	.0	*	.2	.1	.1	.0	.0	.0	1.0	41	
.0	.0	.0	.0	*	.1	.0	.0	.0	.0	.6	21	
.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	1.1	37	
.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.8	24	
.0	.0	.0	.1	.1	.1	.0	.0	.0	*	1.6	58	
.0	.0	.0	*	.0	.1	.0	.0	.0	*	3.0	93	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	2.5	81	
.6	4	13	74	145	132	36	12	9	19	2485	2935	
.2	.1	.4	2.5	4.9	4.5	1.2	.4	.3	.6	84.7	100.0	



MAY

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1888-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2'	= OR >1/4	= OR >55YD
= OR >6500	.7	1.0	1.0	1.0	1.0	1.0	1.0
= OR >5000	1.1	1.4	1.4	1.4	1.4	1.4	1.4
= OR >3500	2.3	2.6	2.6	2.6	2.6	2.6	2.6
= OR >2000	6.0	7.2	7.2	7.2	7.2	7.2	7.2
= OR >1000	10.0	11.8	12.0	12.1	12.1	12.1	12.1
= OR >600	12.0	14.1	14.5	14.5	14.6	14.6	14.6
= OR >300	12.3	14.5	14.9	15.0	15.0	15.0	15.0
= OR >150	12.4	14.7	15.0	15.1	15.2	15.2	15.2
= OR > 0	12.5	14.8	15.3	15.3	15.4	15.4	15.4
TOTAL	366	435	448	450	451	452	452

TOTAL NUMBER OF OBS: 2937

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.9	22.2	28.9	13.6	8.1	5.2	5.3	2.0	2.5	.2	3129

MAY

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1888-1968

TABLE 8

AREA 003 GUANTANAMO  
18-20N 74-76W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*
1/2<1	PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	*
1<2	PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	2	.1
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	2	.1
2<5	PCP	*	*	.0	*	.1	.1	*	.0	.0	.0	.0	*	*	.0	.0	*	.0	.0	11	.4
	NO PCP	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.1
	TOTAL	2	1	1	1	2	2	1	0	0	0	0	1	1	0	0	1	0	1	14	.5
5<10	PCP	*	*	.1	.1	.1	.1	*	.0	.0	.0	.0	.0	*	.0	.1	.0	.0	.0	19	.7
	NO PCP	1.1	.7	1.2	1.2	2.6	.7	.5	.5	.4	.4	.2	.1	.5	.3	.3	.6	.0	.1	328	11.5
	TOTAL	33	20	38	37	77	23	15	15	11	11	6	4	16	8	11	18	0	4	347	12.1
10E>	PCP	.1	*	.1	.0	.2	.2	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	21	.7
	NO PCP	5.6	7.7	14.8	12.0	17.5	8.1	5.7	2.8	1.8	1.0	1.2	.6	.6	.6	1.6	2.5	.0	2.4	2476	86.5
	TOTAL	162	222	426	344	508	237	165	79	53	28	34	16	18	16	47	72	0	70	2497	87.2
TOTAL	198	243	465	382	588	262	182	94	64	39	41	21	35	24	58	91	0	75	2862	100.0	
PCT	6.9	8.5	16.2	13.3	20.5	9.2	6.4	3.3	2.2	1.4	1.4	.7	1.2	.8	2.0	3.2	.0	2.6	100.0		

MAY

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1888-1968

TABLE 9

AREA 003 GUANTANAMO  
18-20N 74-76WPERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	11-21	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	*	
	22<	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	TOTAL	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	11-21	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	*	
	22<	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	TOTAL	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	*
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	11-21	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	
	22<	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	TOTAL	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	2	.1
2<5	0-3	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	3	.1
	4-10	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	.0	.0	4	.1	
	11-21	*	.0	.0	*	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.2	
	22<	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	TOTAL	2	1	1	1	2	2	1	0	0	0	0	1	1	0	0	1	0	0	1	14	.5
5<10	0-3	.1	.1	*	*	.2	.1	.1	.1	.1	.1	.0	.0	.2	.0	.1	.1	.0	.2	45	1.5	
	4-10	.5	.3	.4	.3	.7	.3	.1	.3	.2	.1	.1	.1	.2	.2	.2	.4	.0	.0	137	4.7	
	11-21	.5	.2	.9	.6	1.6	.3	.2	.1	.1	.1	*	.1	*	.1	*	.1	.0	.0	150	5.1	
	22<	.0	.1	*	.3	.2	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	19	.6	
	TOTAL	33	20	38	38	77	23	16	15	11	11	6	4	16	8	11	19	0	5	351	12.0	
10<	0-3	.7	.6	.6	.5	.7	.6	.4	.2	.1	.1	.1	*	.2	*	.4	.4	.0	2.6	246	8.4	
	4-10	3.1	3.2	4.6	2.4	5.5	2.8	2.2	1.2	.9	.4	.6	.4	.3	.4	1.0	1.4	.0	.0	895	30.5	
	11-21	1.7	3.9	8.4	7.5	10.6	4.8	2.9	1.3	.9	.4	.4	.1	.2	.1	.2	.6	.0	.0	1293	44.0	
	22<	*	.1	1.3	1.5	.9	.4	.2	*	.0	*	.0	.0	.0	.0	.0	*	.0	.0	134	4.6	
	TOTAL	165	228	438	349	522	251	169	80	55	29	34	16	20	16	47	74	0	75	2568	87.4	
TOTAL PCT		201 6.8	249 8.5	477 16.2	388 13.2	602 20.5	276 9.4	187 6.4	95 3.2	66 2.2	40 1.4	41 1.4	21 .7	37 1.3	24 .8	58 2.0	94 3.2	0	81 2.8	2937 100.0	100.0	

## MAY

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1888-1968AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND  
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.1	.1	.1	.5	1.1	1.2	.2	*	.1	.3	111	20.3	741
06009	.1	.0	.1	.5	1.1	1.0	.2	.1	.1	.2	103	18.4	676
12015	*	*	.1	.9	1.4	1.0	.4	.2	.1	.1	130	22.3	822
18021	*	.0	.2	.5	1.2	1.1	.4	.1	.1	.1	111	24.4	868
TOT PCT	6 .2	4 .1	13 .4	74 2.4	147 4.7	134 4.3	36 1.2	12 .4	9 .3	20 .6	455 14.6	2652 85.4	3107 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	*	.1	3.1	20.7	704
06009	.0	*	.0	.1	3.1	18.8	648
12015	.0	.0	.0	.2	2.7	23.7	786
18021	*	.0	*	.1	3.1	24.3	812
TOT PCT	1 *	1 *	2 .1	14 .5	351 11.9	2581 87.5	2950 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND  
CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ &OR5+	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	*	3.7	20.1	704
06009	.0	.0	.1	3.4	18.5	648
12015	.0	.0	.1	4.3	22.2	786
18021	.0	.0	.1	3.7	23.8	812
TOT PCT	0 .0	0 .0	9 .3	446 15.1	2495 84.6	2950 100.0

## MAY

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1888-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
95/99	.0	.0	.0	.0	*	.0	.0	.0	1	*
90/94	.0	.0	.0	.3	.4	.3	.0	*	30	1.1
85/89	.0	.0	.1	.6	3.9	3.7	1.3	.2	262	9.8
80/84	.0	.0	.0	.6	8.7	27.4	19.9	5.8	1666	62.4
75/79	*	.0	.0	*	1.3	10.2	10.3	3.6	680	25.5
70/74	.0	.0	.0	*	.0	.2	.7	.2	32	1.2
TOTAL	1	0	2	43	383	1117	860	265	2671	100.0
PCT	*	.0	.1	1.6	14.3	41.8	32.2	9.9		

TABLE 14

	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW				
95/99	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90/94	*	.3	.4	.1	.1	.0	.0	*	.0	*	.0	.1
85/89	1.0	2.3	2.9	1.5	.6	.4	.3	.3	.0	.0	.0	.6
80/84	7.7	18.2	21.4	6.7	2.4	1.4	1.1	1.6	*	1.8	*	1.8
75/79	5.4	9.3	5.1	1.6	.6	.3	.3	2.6	.0	.3	.0	.3
70/74	.4	.1	.1	.0	*	.0	.2	.2	.0	*	.0	*
TOTAL	390	807	800	263	101	55	50	126	1	78		
PCT	14.6	30.2	30.0	9.8	3.8	2.1	1.9	4.7	*	2.9		

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	87	86	82	77	75	70	81.0	761
06&09	88	84	82	79	75	73	72	79.5	808
12&15	89	86	84	80	74	72	70	79.9	853
18&21	95	93	90	84	79	76	73	83.4	975
TOT	95	90	86	80	75	72	70	81.1	3397

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.3	2.6	10.3	7.3	2.0	78	609
06&09	*	.0	1.1	8.7	9.9	3.3	81	622
12&15	.0	.3	2.6	10.0	9.8	2.9	79	689
18&21	.0	1.1	8.1	13.0	5.1	1.7	74	782
TOT	1	45	390	1134	865	267	78	2702

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1888-1968

MAY

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	93 96	TOT	W FOG	WU FOG
14/16	.0	.0	.0	.0	.0	.0	*	1	.0	*
11/13	.0	.0	.0	.0	.0	.1	.2	8	.0	.3
9/10	.0	.0	.0	.1	.1	.2	*	14	.0	.5
7/8	.0	.0	.1	.1	.6	.4	.0	32	.0	1.1
6	.0	.0	*	.1	.8	.3	.0	36	.0	1.3
5	.0	.0	.2	.4	1.2	.4	.0	60	.0	2.1
4	.0	.0	.1	1.1	1.4	.1	.0	75	.0	2.6
3	.0	*	.4	2.1	1.9	.1	.0	126	.0	4.4
2	.0	.0	.6	4.9	1.4	.0	.0	194	.0	6.8
1	.0	.0	1.2	6.8	.9	.0	.0	252	.0	8.9
0	.0	.1	4.2	9.5	.4	.0	.0	402	.0	14.1
-1	.0	.0	4.9	8.5	.2	.0	.0	389	.0	13.7
-2	.0	.0	8.7	5.2	.0	.0	.0	396	.0	13.9
-3	.0	.4	6.9	3.8	*	.0	.0	318	.0	11.2
-4	*	.9	4.8	1.4	*	.0	.0	204	.0	7.2
-5	.0	.7	3.5	.5	*	.0	.0	136	.0	4.8
-6	.0	1.5	1.5	.!	.0	.0	.0	87	*	3.0
-7/-8	.0	1.3	1.4	.1	.0	.0	.0	81	.0	2.9
-9/-10	.1	.5	.2	.0	.0	.0	.0	21	.0	.7
-11/-13	*	.2	.0	.0	.0	.0	.0	7	.0	.2
-14/-16	*	.1	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	6	163	1099	1267	256	44	7	2842	1	2841
PCT	.2	5.7	38.7	44.6	9.0	1.5	.2	100.0	*	100.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

MAY  
TABLE 18

AREA 003 GUANTANAMO  
18-20N 74-76W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	.8	4.1	.1	.0	.0	.0	42	.6	1.4	.4	.0	.0	.0	20
1-2	.4	3.2	1.7	.2	.0	.0	46	.1	3.5	6.6	1.3	.0	.0	96
3-4	.0	1.1	1.3	.1	.0	.0	21	.0	1.9	6.0	1.9	.1	.0	83
5-6	.0	.2	.6	.0	.0	.0	7	.0	.4	4.1	1.1	.0	.0	46
7	.0	.1	.7	.0	.0	.0	7	.0	.0	1.2	.6	.0	.0	15
8-9	.0	.0	.1	.0	.0	.0	1	.0	.0	.2	.4	.0	.0	5
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.0	.0	.0	1
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	10	73	38	3	0	0	124	6	60	153	44	1	0	266
PCT	1.2	8.0	4.6	.4	.0	.0	14.9	.7	7.2	18.6	5.3	.1	.0	31.9

HGT	E							SE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	.6	1.6	.5	.0	.0	.0	22	.1	1.2	.0	.0	.0	.0	11
1-2	.5	4.8	6.7	.5	.0	.0	104	.4	3.0	.7	.2	.0	.0	36
3-4	.0	1.6	6.2	1.2	.0	.0	75	.0	1.6	1.1	.0	.0	.0	22
5-6	.0	.6	2.4	.5	.1	.0	30	.0	.2	.6	.1	.0	.0	8
7	.0	.0	1.4	.1	.0	.0	13	.0	.0	.4	.0	.0	.0	3
8-9	.0	.0	.1	.1	.0	.0	2	.0	.0	.1	.0	.0	.0	1
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.1	.0	.0	1
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	9	71	145	20	1	0	246	4	50	24	4	0	0	82
PCT	1.1	8.5	17.4	2.4	.1	.0	29.5	.5	6.0	2.9	.5	.0	.0	9.8

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

MAY  
TABLE 18

AREA 003 GUANTANAMO  
18-20N 74-76W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.0	.7	.1	.0	.0	.0	7	.0	.4	.0	.0	.0	.0	3		
1-2	.2	1.6	.8	.0	.0	.0	22	.0	.8	.2	.0	.0	.0	9		
3-4	.0	.0	.5	.0	.0	.0	4	.0	.5	.1	.0	.0	.0	5		
5-6	.0	.0	.0	.0	.0	.0	0	.0	.1	.1	.0	.0	.0	2		
7	.0	.0	.0	.0	.0	.0	0	.0	.1	.0	.0	.0	.0	1		
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
TOTAL	2	19	12	0	0	0	33	0	16	4	0	0	0	20		
PCT	.2	2.3	1.4	.0	.0	.0	4.0	.0	1.9	.5	.0	.0	.0	2.4		

HGT	W							NW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.2	.8	.0	.0	.0	.0	9	.7	2.6	.0	.0	.0	.0	28	142	
1-2	.1	.4	.2	.0	.0	.0	6	.2	1.3	.5	.0	.0	.0	17	336	
3-4	.0	.1	.0	.0	.0	.0	1	.0	.2	.0	.0	.0	.0	2	213	
5-6	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	93	
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	39	
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	9	
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	2	
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
TOTAL	3	11	2	0	0	0	16	8	35	4	0	0	0	47	834	
PCT	.4	1.3	.2	.0	.0	.0	1.9	1.0	4.2	.5	.0	.0	.0	5.6	100.0	



MAY

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

TABLE 18 (CONT)

AREA 003 GUANTANAMO  
18-20N 74-76W

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	4.7	12.6	1.1	.0	.0	.0	156
1-2	2.0	18.2	17.2	2.2	.0	.0	337
3-4	.1	6.8	14.9	3.2	.1	.0	214
5-6	.0	1.5	7.6	1.6	.1	.0	93
7	.0	.2	3.6	.7	.0	.0	39
8-9	.0	.0	.6	.5	.0	.0	9
10-11	.0	.0	.1	.1	.0	.0	2
12	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	58	335	384	71	2	0	850
PCT	6.8	39.4	45.2	8.4	.2	.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	2.2	31.5	21.7	8.6	2.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	646	2
6-7	.0	1.0	2.5	3.7	2.8	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	105	5
8-9	.0	.4	.5	1.0	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	4
10-11	.1	.0	.2	.1	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	5
12-13	.0	.4	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	3
>13	.0	.0	.2	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
INDET	10.5	7.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	174	0
TOTAL	124	397	249	131	54	16	2	1	0	0	0	0	0	0	0	0	0	0	0	0	974	2
PCT	12.7	40.8	25.6	13.4	5.5	1.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1953-1968  
(OVER-ALL) 1867-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW		
N	.1	.1	.0	.0	.0	.0	.0	.3	.1	.1	.0	.0	12	158	.2
NNE	*	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	7	142	*
NE	.1	*	*	.0	.0	.0	.0	.4	.0	.2	.0	.0	17	321	.2
ENE	*	.3	.0	.0	.0	.0	.0	.4	.0	.1	.0	.0	14	311	.4
E	.3	.4	.1	.0	.0	.0	.0	1.2	*	.4	.0	.0	46	719	.9
ESE	.1	.1	.0	.0	.0	.0	.0	.7	.0	.1	.0	.0	23	358	.3
SE	.1	.1	*	.0	.0	.0	.0	.3	.0	*	.0	.0	8	262	.2
SSE	*	*	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	5	107	.1
S	.1	.1	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	2	91	.2
SSW	*	.0	.0	.0	.0	.0	.0	.1	.0	*	*	*	4	36	*
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	26	.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	21	.0
W	.0	*	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	1	18	*
WNW	*	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	1	16	.1
NW	*	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	1	38	*
NNW	.1	.0	.0	.0	.0	.0	.0	.2	.0	.1	.0	.0	8	58	.1
VAR	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	1	7	.0
CALM	.0	.1	*	.0	.0	.0	.0	.1	*	.2	.0	.0	10	104	.1
TOT	30	37	8	0	0	0	0	115	4	40	1	160	2793		
PCT	1.1	1.3	.3	.0	.0	.0	.0	2.7	4.1	.1	1.4	*	5.7	100.0	2.7

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW		
00003	.2	.3	*	.0	.0	.0	.0	.9	.1	.5	.0	.0	42	682	.6
06009	.3	.4	.1	.0	.0	.0	.0	3.2	.1	.1	*	*	95	693	.8
12015	.2	.3	.1	.0	.0	.0	.0	.1	.0	.5	.0	.0	18	669	.7
18021	.3	.4	*	.0	.0	.0	.0	.0	.0	.3	.0	.0	8	773	.7
TOT	31	38	8	0	0	0	0	118	4	40	1	163	2817		
PCT	1.1	1.3	.3	.0	.0	.0	.0	2.7	4.2	.1	1.4	*	5.8	100.0	2.7

JUNE

PERIOD: (PRIMARY) 1953-1968  
(OVER-ALL) 1967-1968

TABLE 3

AREA 003 GUANTANAMO  
18-20N 74-76W

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.8	3.7	.9	.0	.0	.0	163	5.4	7.1	4.9	14.8	4.1	6.6	10.4	2.9	2.7	1.6
NNE	.4	3.4	1.2	*	.0	.0	152	5.1	8.6	8.9	3.7	3.8	5.9	5.6	4.3	2.3	4.7
NE	.7	6.4	4.7	.2	.0	.0	361	12.0	10.4	15.4	16.7	14.5	12.5	8.3	15.9	8.7	14.7
ENE	.4	5.4	5.2	.5	.0	.0	347	11.5	11.5	11.6	18.5	12.1	12.5	11.6	14.5	10.0	10.9
E	1.8	12.2	10.6	1.0	.0	.0	771	25.6	10.7	21.3	18.5	29.5	22.4	24.7	31.9	28.7	19.4
ESE	.7	5.7	5.8	.8	.0	.0	387	12.9	11.8	10.5	1.9	11.5	11.8	13.2	13.0	16.8	14.0
SE	.8	5.4	2.7	.3	.0	*	277	9.2	10.4	7.4	5.6	8.5	7.2	7.5	5.8	13.8	10.9
SSE	.3	2.1	1.3	.1	.0	.0	114	3.8	9.6	3.3	.0	2.4	.0	4.9	2.9	4.8	8.5
S	.6	2.0	.6	.0	.0	.0	97	3.2	7.5	3.8	1.9	2.7	3.3	2.2	1.4	4.2	3.9
SSW	.3	.9	.1	.0	.0	.0	39	1.3	6.3	1.6	1.9	.6	1.3	.8	.0	2.0	2.3
SW	.1	.8	.1	.0	.0	.0	30	1.0	7.1	1.6	.0	1.0	1.3	.8	.0	.6	2.3
WSW	.2	.4	.1	.0	.0	.0	21	.7	6.0	.9	1.9	.3	.0	.5	4.3	.7	.8
W	.1	.5	.0	.0	.0	.0	19	.6	5.6	1.4	1.9	.2	.7	.3	.0	.7	.0
WNW	.1	.3	*	.0	.0	.0	15	.5	6.5	.5	.0	.8	.0	1.0	.0	.1	.0
NW	.3	.9	.1	.0	.0	.0	40	1.3	5.7	1.6	3.7	2.1	2.6	1.3	.0	.4	.0
NNW	.2	1.6	.1	.0	.0	.0	59	2.0	6.4	1.9	1.9	2.1	6.6	3.5	.0	.1	.0
VAR	.1	.1	.0	.0	.0	.0	7	.2	3.1	.2	.0	.5	.7	.2	.0	.1	.0
CALM	3.6						107	3.6	.0	3.4	7.4	3.3	4.6	3.2	2.9	3.2	6.2
TOT	346	1559	1011	89	0	1	3006	100.0	9.7	638	54	627	152	627	69	710	129
PCT	11.5	51.9	33.6	3.0	.0	*	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40					00	03	06	09	12	15	18	21
N	4.9	5.2	.4	.0	.0	315	10.5	7.8	13.8	18.5	8.0	12.5	15.9	7.2	4.9	6.2
NE	5.9	14.2	3.3	.2	.0	708	23.6	10.9	27.0	35.2	26.6	25.0	19.9	30.4	18.7	25.6
E	9.4	23.2	5.9	.1	.0	1158	38.5	11.1	31.8	20.4	41.0	34.2	38.0	44.9	45.5	33.3
SE	3.9	7.5	1.6	.0	*	391	13.0	10.2	10.7	5.6	10.8	7.2	12.4	8.7	18.6	19.4
S	2.4	2.0	.1	.0	.0	136	4.5	7.1	5.3	3.7	3.3	4.6	3.0	1.4	6.2	6.2
SW	.9	.8	.0	.0	.0	51	1.7	6.7	2.5	1.9	1.3	1.3	1.3	4.3	1.3	3.1
W	.8	.3	*	.0	.0	34	1.1	6.0	1.9	1.9	1.0	.7	1.3	.0	.8	.0
NW	2.0	1.2	.1	.0	.0	99	3.3	6.1	3.4	5.6	4.1	9.2	4.8	.0	.6	.0
VAR	.2	.0	.0	.0	.0	7	.2	3.1	.2	.0	.5	.7	.2	.0	.1	.0
CALM	3.6					107	3.6	.0	3.4	7.4	3.3	4.6	3.2	2.9	3.2	6.2
TOT	1018	1638	341	8	1	3006	100.0	9.7	638	54	627	152	627	69	710	129
PCT	33.9	54.5	11.3	.3	*	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1953-1968  
(OVER-ALL) 1867-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	2.1	12.0	7.1	1.0	.0	.0	*	.9	9.6	23.0	692
06&09	2.1	14.2	8.0	.6	.0	.0	.1	.9	9.3	25.9	779
12&15	1.6	12.2	7.9	.6	.0	*	*	.7	9.7	23.2	696
18&21	2.1	13.3	10.7	.8	.0	.0	*	1.0	10.1	27.9	839
TOT	235	1556	1011	89	0	1	7	107	9.7		3006
PCT	7.8	51.8	33.6	3.0	.0	*	.2	3.6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD		
N	2.0	1.4	1.9	.5	152	4.0
NNE	1.4	1.1	2.3	.4	135	4.3
NE	3.3	3.5	3.2	1.5	302	4.2
ENE	3.3	3.0	4.1	1.1	299	4.2
E	6.1	7.7	8.7	2.7	657	4.3
ESE	2.4	3.9	4.9	1.5	330	4.7
SE	2.6	2.0	3.5	1.2	244	4.5
SSE	1.2	.7	1.4	.7	104	4.5
S	.6	.8	1.0	.6	80	4.9
SSW	.3	.3	.6	.2	36	4.8
SW	.3	.1	.5	*	25	4.6
WSW	.0	.2	.4	.2	20	6.0
W	.1	.0	.3	.2	16	6.3
WNW	.2	.1	*	.2	15	4.3
NW	.8	.1	.4	.2	38	3.5
NNW	.8	.3	.7	.3	57	4.3
VAR	.0	*	*	*	3	5.7
CALM	1.1	.9	1.4	.3	97	4.3
TOT	687	683	926	314	2610	4.4
PCT	26.3	26.2	35.5	12.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

WIND DIR	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										NH <5/8 ANY HGT	TOTAL OBS
	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+		
N	*	*	*	.1	.3	.2	.0	.0	*	*	5.1	152
NNE	.0	.0	.0	.1	.2	.2	*	.1	.0	.1	4.4	135
NE	*	.0	.2	.2	.6	.4	.2	.1	.0	*	9.8	302
ENE	.0	.0	*	.2	.4	.6	.1	.2	*	.1	9.8	299
E	.2	.0	.2	.8	1.3	1.1	.3	.4	.1	.1	20.8	657
ESE	*	.0	*	.4	1.0	.3	.1	.1	.1	*	10.5	330
SE	*	.0	*	.2	1.2	.3	.1	*	*	.1	7.3	244
SSE	.0	.0	.1	.1	.2	.3	.2	.0	.0	*	3.1	104
S	.0	.0	*	.1	.3	.1	.1	.0	.0	*	2.3	80
SSW	.0	.0	.0	*	*	.2	.2	.0	*	.0	1.0	36
SW	.0	.0	.0	.0	.2	*	.0	.0	.0	*	.7	25
WSW	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.5	20
W	.0	.0	.0	*	.1	.0	*	.0	.0	.0	.4	16
WNW	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.5	15
NW	.0	.0	.0	*	.0	.1	.0	.0	.0	.0	1.3	38
NNW	.0	.0	*	*	.1	*	.0	.0	*	.1	1.9	57
VAR	.0	.0	.0	.0	*	.0	.0	.0	.0	*	*	3
CALM	.0	.0	.0	.2	.1	.1	*	.0	*	.1	3.3	97
TOT	8	1	17	67	158	107	33	23	10	23	2163	2610
PCT	.3	*	.7	2.6	6.1	4.1	1.3	.9	.4	.9	82.9	100.0

JUNE

PERIOD: (PRIMARY) 1953-1968  
(OVER-ALL) 1867-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	1.0	1.3	1.3	1.3	1.3	1.3	1.3
= OR >5000	1.6	2.1	2.1	2.1	2.1	2.1	2.1
= OR >3500	2.8	3.4	3.4	3.4	3.4	3.4	3.4
= OR >2000	5.5	7.4	7.5	7.5	7.5	7.5	7.5
= OR >1000	10.0	13.5	13.5	13.5	13.5	13.6	13.6
= OR >600	11.8	15.9	16.0	16.0	16.0	16.1	16.1
= OR >300	12.2	16.4	16.6	16.6	16.6	16.7	16.7
= OR >150	12.2	16.4	16.6	16.6	16.6	16.8	16.8
= OR > 0	12.3	16.7	16.9	16.9	16.9	17.1	17.1
TOTAL	322	435	441	441	442	446	446

TOTAL NUMBER OF OBS: 2611

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.1	20.6	26.5	15.1	9.5	5.4	5.5	3.3	2.7	.2	2776

JUNE

PERIOD: (PRIMARY) 1953-1968  
(OVER-ALL) 1867-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	*	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	3	.1
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	TOTAL	1	0	0	0	2	0	1	0	0	0	0	0	0	0	1	0	0	0	5	.2
1/2<1	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	*
2<3	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	NO PCP	.0	.0	.0	.0	.1	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.3
	TOTAL	0	0	0	0	2	2	1	2	0	0	0	0	0	0	0	0	0	0	2	.3
3<10	PCP	.1	.0	.1	.1	.3	.1	*	*	*	*	.0	.0	.0	*	.0	.0	.0	*	25	1.0
	NO PCP	1.4	.5	1.0	1.2	2.9	1.3	1.3	.5	.8	.6	.3	.3	.2	.2	.1	.6	.0	.6	363	14.0
	TOTAL	39	14	29	35	83	36	35	15	23	16	8	8	6	7	2	15	0	17	388	15.0
10<25	PCP	.1	*	.1	.2	.5	*	.1	*	*	.0	.0	.0	*	*	.0	.1	.0	.1	35	1.4
	NO PCP	4.2	4.6	10.3	9.8	21.4	11.1	7.8	3.2	2.2	.8	.7	.5	.3	.3	1.4	1.5	.1	2.9	2151	83.1
	TOTAL	112	120	269	238	567	288	205	85	57	20	17	12	10	8	35	42	3	78	2186	84.4
TOTAL	152	134	299	293	654	326	243	102	80	36	25	20	16	15	38	57	3	97	2590	100.0	
PCT	5.9	5.2	11.5	11.3	25.3	12.6	9.4	3.9	3.1	1.4	1.0	.8	.6	.6	1.5	2.2	.1	3.7	100.0		

JUNE

PERIOD: (PRIMARY) 1953-1968  
(OVER-ALL) 1867-1968

TABLE 9

AREA 003 GUANTANAMO  
18-20N 74-76W

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	WIND SPEED (KTS)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	3	.1
	226>	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	1	0	0	0	2	0	1	0	0	0	0	0	0	0	1	0	0	0	5	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	226>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	226>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	*
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.2
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	11-21	.0	.0	.0	.0	.0	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.1
	226>	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	TOTAL	0	0	0	0	2	2	1	2	0	0	0	0	0	0	0	0	0	0	9	.3
5<10	0-3	.1	*	.2	.0	.3	.2	.1	*	.2	.2	.0	*	*	.2	.0	*	.0	.7	56	2.1
	4-10	1.1	.3	.6	.5	1.3	.5	.7	.3	.7	.4	.2	.2	.2	.1	.1	.4	.0	.0	198	7.6
	11-21	.3	.2	.3	.8	1.5	.6	.5	.3	.1	.0	.1	.1	.0	*	.0	.1	.0	.0	124	4.7
	226>	.0	.0	*	*	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	.5
	TOTAL	39	14	30	35	84	36	35	15	23	16	8	8	6	7	2	15	0	17	390	14.9
10<20	0-3	.7	.3	.5	.3	1.5	.5	.7	.2	.3	.1	.0	.2	*	.0	.4	.2	.1	3.0	239	9.2
	4-10	2.5	2.3	3.6	3.3	7.4	3.1	2.9	1.6	1.1	.6	.5	.2	.2	.2	.8	1.1	*	.0	822	31.5
	11-21	1.1	1.9	6.1	6.1	12.1	7.0	4.0	1.5	.8	.1	.2	.1	.1	.1	.1	.2	.0	.0	1082	41.4
	226>	.0	*	.2	.4	.8	.6	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	62	2.4
	TOTAL	112	121	271	263	570	292	206	87	57	21	17	12	10	8	35	42	3	78	2205	84.5
TOTAL PCT		5.8	5.2	11.6	11.4	25.2	12.6	9.3	4.0	3.1	1.4	1.0	.8	.6	.6	1.5	2.2	.1	3.7	2611	100.0

JUNE

PERIOD: (PRIMARY) 1953-1968  
(OVER-ALL) 1867-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.3	.6	1.7	1.1	.3	.3	.1	.3	130	19.9	678
06009	.0	.0	.1	.8	1.1	.8	.3	.2	.1	.2	99	19.7	640
12015	.1	.0	.1	.6	1.4	1.1	.3	.1	*	.2	108	20.4	669
18021	.1	*	*	.4	1.6	.9	.4	.3	.1	.2	114	23.7	765
TOT PCT	.8 .3	1 *	17 .6	67 2.4	159 5.8	109 4.0	33 1.2	23 .8	10 .4	24 .9	451 16.4	2301 83.6	2752 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	.1	3.3	21.2	647
06009	*	.0	.0	.1	3.1	19.7	603
12015	.1	*	.0	.1	4.1	20.3	647
18021	.1	.0	*	.1	4.2	23.4	730
TOT PCT	.5 .2	1 *	1 *	.9 .3	390 14.8	2221 84.5	2627 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ <OR5+	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.1	4.8	19.7	647
06009	.0	.0	*	3.7	19.2	603
12015	.0	*	.1	4.0	20.5	647
18021	.0	*	.1	4.2	23.4	730
TOT PCT	0 .0	2 .1	7 .3	41 16.8	2177 82.9	2627 100.0



JUNE

PERIOD: (PRIMARY) 1953-1968  
(OVER-ALL) 1867-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
90/94	.0	.0	.0	.3	.8	.3	*	.0	32	1.3
85/89	.0	.0	.0	.3	5.3	8.8	2.2	.5	410	17.2
80/84	*	.0	*	.2	5.1	30.5	30.3	5.7	1711	71.9
75/79	.0	.0	.0	.0	.1	2.1	4.2	2.6	214	9.0
70/74	.0	.0	.0	.0	.0	.0	.3	.3	13	.5
65/69	.0	.0	.0	.0	.0	.0	.0	*	1	*
TOTAL	1	0	1	19	270	992	880	218	2381	100.0
PCT	*	.0	*	.8	11.3	41.7	37.0	9.2		

TABLE 14

	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW				
90/94	*	.4	.4	.3	.1	*	*	.0	.0	*	.0	*
85/89	1.2	3.1	7.4	2.9	1.1	.3	.3	.1	.0	.8	.0	.8
80/84	6.1	18.7	28.9	9.2	3.0	1.0	.7	1.6	.2	2.5	.2	2.5
75/79	2.5	1.3	1.8	.7	.3	.2	.2	1.3	*	.6	*	.6
70/74	.2	.0	*	.0	.0	.0	*	.2	.0	.1	.0	.1
65/69	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	240	559	919	311	108	37	30	76	6	95	6	95
PCT	10.1	23.5	38.6	13.1	4.5	1.6	1.3	3.2	.3	4.0	.3	4.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	95	89	86	83	79	74	69	82.5	699
06&09	88	88	86	83	78	74	73	81.0	783
12&15	89	89	87	83	78	75	70	81.6	698
18&21	95	94	90	85	81	78	71	84.8	838
TOT	95	92	88	82	77	74	69	82.5	3018

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	*	.1	2.2	11.0	9.3	2.0	79	590		
06&09	.0	*	.6	8.3	11.7	4.0	82	592		
12&15	.0	.1	1.6	8.9	11.1	2.0	80	569		
18&21	.0	.5	6.9	13.4	5.0	1.3	74	649		
TOT	1	20	272	997	890	220	79	2400		

PERIOD: (PRIMARY) 1953-1968  
(OVER-ALL) 1967-1968

JUNE

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	93 96	TOT	W FOG	WD FOG
11/13	.0	.0	.0	*	.0	*	.1	4	.0	.2
9/10	.0	.0	.0	.1	*	.2	.2	12	.0	.5
7/8	.0	.0	.0	.1	.3	.6	.1	28	.0	1.1
6	.0	.0	.1	.1	.8	.4	.0	35	.0	1.3
5	.0	.0	.0	.1	1.2	.6	*	52	.0	2.0
4	.0	.0	.0	.8	1.8	.3	.0	77	.0	3.0
3	.0	.0	*	1.5	3.0	.1	.0	118	.0	4.5
2	.0	.0	*	3.8	3.0	.2	.0	183	.1	6.9
1	.0	.0	.0	7.6	3.0	.1	.0	279	*	10.7
0	.0	.0	1.0	13.8	1.3	.1	.0	420	.0	16.2
-1	.0	*	1.4	11.1	.8	*	.0	349	.0	13.4
-2	.0	.0	3.1	10.9	.3	.0	.0	371	.0	14.3
-3	.0	.0	2.8	6.6	.2	.0	.0	247	.0	9.5
-4	.0	.3	2.7	2.5	.2	.0	.0	150	.0	5.8
-5	.0	.2	2.5	1.2	.2	.0	.0	105	.0	4.0
-6	.0	.2	1.5	.5	.0	.0	.0	57	.0	2.2
-7/-8	.0	.4	1.9	.8	.0	.0	.0	80	.0	3.1
-9/-10	.0	.4	.3	.2	.0	.0	.0	24	*	.9
-11/-13	.0	.1	*	.1	.0	.0	.0	5	.0	.2
TOTAL	0	41	453	1605	420	68	9	2596	4	2592
PCT	.0	1.6	17.4	61.8	16.2	2.6	.3	100.0	.2	99.8

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

JUNE  
TABLE 18

AREA 003 GUANTANAMO  
18-20N 74-76W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						TOTAL	NE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.5	4.7	.3	.0	.0	.0	41	.7	2.7	.1	.0	.0	.0	26
1-2	.0	2.1	.5	.0	.0	.0	20	.1	3.4	3.6	.1	.0	.0	54
3-4	.0	1.2	.0	.0	.0	.0	9	.0	2.7	4.4	.3	.0	.0	59
5-6	.0	.4	.3	.0	.0	.0	5	.0	.5	2.5	.0	.0	.0	23
7	.0	.0	.1	.0	.0	.0	1	.0	.0	.8	.1	.0	.0	7
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.0	.0	.0	1
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	4	63	9	0	0	0	76	6	69	87	8	0	0	170
PCT	.5	8.4	1.2	.0	.0	.0	10.2	.8	9.2	11.7	1.1	.0	.0	22.8

HGT	E						TOTAL	SE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	1.5	4.2	.5	.0	.0	.0	46	1.1	2.4	.1	.0	.0	.0	27
1-2	.8	7.1	3.8	.0	.0	.0	87	.5	4.6	1.2	.0	.0	.0	47
3-4	.1	4.6	7.1	.3	.0	.0	90	.0	1.2	.8	.0	.0	.0	15
5-6	.0	1.6	3.8	.5	.0	.0	44	.0	.3	1.1	.0	.0	.0	10
7	.0	.3	1.7	.9	.0	.0	22	.0	.0	.7	.0	.0	.0	5
8-9	.0	.0	.3	.1	.0	.0	3	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.1	.0	.0	1	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.1	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	18	132	128	16	0	0	294	12	63	29	0	0	0	104
PCT	2.4	17.7	17.2	2.1	.0	.0	39.4	1.6	8.4	3.9	.0	.0	.0	13.9

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

JUNE  
TABLE 18

AREA 003 GUANTANAMO  
18-20N 74-76W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							TOTAL	GRAND TOTAL														
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL																
<1	.8	1.6	.0	.0	.0	.0	18	.4	.4	.0	.0	.0	.0	6	194															
1-2	.1	1.6	.4	.0	.0	.0	16	.1	.3	.0	.0	.0	.0	3		243														
3-4	.0	.7	.1	.0	.0	.0	6	.0	.3	.3	.0	.0	.0	4			186													
5-6	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0				82												
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0					35											
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						3										
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							2									
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0								1								
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0									0							
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0										0						
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0											0					
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0												0				
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0													0			
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0														0		
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0															0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0																0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0																
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0															
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0															
TOTAL	7	29	4	0	0	0	40	4	7	2	0	0	0	13	746															
PCT	.9	3.9	.5	.0	.0	.0	5.4	.5	.9	.3	.0	.0	.0	1.7	100.0															

JUNE

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

TABLE 18 (CONT)

AREA 003 GUANTANAMO  
18-20N 74-76W

WIND SPEED (KTS) VS SEA HEIGHT (FT)							
HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	11.7	17.7	1.0	.0	.0	.0	242
1-2	2.3	19.3	9.2	.1	.0	.0	246
3-4	.1	10.3	11.9	1.0	.0	.0	186
5-6	.0	2.6	7.2	.5	.0	.0	82
7	.0	.3	3.1	1.0	.0	.0	35
8-9	.0	.0	.3	.1	.0	.0	3
10-11	.0	.0	.1	.1	.0	.0	2
12	.0	.0	.0	.1	.0	.0	1
13-16	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	112	400	261	24	0	0	797
PCT	14.1	50.2	32.7	3.0	.0	.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.1	27.3	21.7	7.2	1.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	529	2
6-7	.0	3.5	2.6	4.5	2.5	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	117	4
8-9	.0	.1	.6	1.4	1.4	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	5
10-11	.0	.0	.1	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
12-13	.0	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
>13	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	2
INDET	18.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	163	0
TOTAL	192	271	213	113	51	6	4	1	1	0	0	0	0	0	0	0	0	0	0	852	2
PCT	22.5	31.8	25.0	13.3	6.0	.7	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1880-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT PCPN AT OB TIME	FREQ
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG SNOW	TOTAL OTHER WEA			
N	.0	.0	.0	.0	.0	.0	.0	0	.2	*	.1	.0	11	163	.0	
NNE	.1	.0	.0	.0	.0	.0	.0	3	.4	.0	.0	.0	12	199	.1	
NE	*	.1	.0	.0	.0	.0	.0	5	.6	.0	.1	.0	21	455	.2	
ENE	.1	.1	.0	.0	.0	.0	.0	5	.9	.0	.3	.0	36	511	.2	
E	*	.2	.0	.0	.0	.0	.0	8	1.1	.0	.3	*	44	855	.3	
ESE	.1	.1	.0	.0	.0	.0	.0	4	.3	.0	.2	.0	15	324	.1	
SE	.1	*	.0	.0	.0	.0	.0	3	.2	.0	.1	.0	8	193	.1	
SSE	.1	.0	.0	.0	.0	.0	.0	2	.1	.0	.0	.0	3	85	.1	
S	.1	*	.0	.0	.0	.0	.0	3	.2	.0	.0	.0	6	69	.1	
SSW	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.0	.0	2	13	.0	
SW	.0	*	.0	.0	.0	.0	.0	1	*	.0	.0	*	2	14	*	
WSW	.0	.0	.0	.0	.0	.0	.0	0	*	.0	.0	.0	1	12	.0	
W	.0	.0	.0	.0	.0	.0	.0	0	*	.0	.0	.0	1	10	.0	
WNW	*	.0	.0	.0	.0	.0	.0	1	*	.0	.0	.0	1	10	*	
NW	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.0	.0	2	30	.0	
NNW	.0	.0	.0	.0	.0	.0	.0	0	*	.0	.0	.0	1	66	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.0	.0	2	6	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.1	.0	4	68	.0	
TOT	16	19	0	0	0	0	0	35	133	1	35	3	172	3089		
PCT	.5	.6	.0	.0	.0	.0	.0	1.1	4.3	*	1.1	.1	5.6	100.0	1.1	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT PCPN AT OB TIME	FREQ
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG SNOW	TOTAL OTHER WEA			
00&03	.3	.1	.0	.0	.0	.0	.0	10	.9	*	.5	*	45	734	.3	
06&09	.2	.3	.0	.0	.0	.0	.0	13	3.0	.0	.2	*	100	696	.4	
12&15	.1	.2	.0	.0	.0	.0	.0	10	.3	.0	.3	*	19	790	.3	
18&21	*	.1	.0	.0	.0	.0	.0	3	*	.0	.3	.0	9	885	.1	
TOT	17	19	0	0	0	0	0	36	134	1	35	3	173	3105		
PCT	.5	.6	.0	.0	.0	.0	.0	1.2	4.3	*	1.1	.1	5.6	100.0	1.2	

JULY

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1880-1967

TABLE 3

AREA 003 GUANTANAMO  
18-20N 74-76W

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.6	3.2	1.3	*	.0	.0	171	5.1	7.9	4.2	11.1	4.1	7.7	11.5	.9	1.5	1.2
NNE	.8	3.3	2.2	.1	.0	.0	211	6.3	9.5	10.1	9.3	6.9	7.1	5.5	7.1	2.5	9.1
NE	.8	6.1	7.1	.7	.0	.0	489	14.7	11.7	19.5	24.1	16.4	14.1	11.5	15.2	12.3	11.5
ENE	.8	5.4	8.9	1.4	*	.0	551	16.6	13.1	14.3	20.4	18.6	16.7	15.2	27.7	17.3	12.1
E	1.2	11.1	13.6	1.9	.0	.0	928	27.9	12.5	25.6	14.8	25.8	22.4	26.8	30.4	33.6	30.3
ESE	.4	5.1	4.3	.8	*	.0	351	10.6	11.9	10.0	3.7	7.2	10.3	8.3	9.8	14.9	17.0
SE	.4	3.6	2.4	.1	.0	.0	217	6.5	10.3	5.6	3.7	5.1	9.0	5.5	5.4	8.6	9.7
SSE	.4	1.6	.8	.0	.0	.0	91	2.7	8.3	2.6	1.9	2.6	.6	2.0	.9	4.2	3.0
S	.4	1.4	.3	*	.0	.0	68	2.0	7.1	1.4	1.9	2.1	.6	3.0	.9	2.0	2.4
SSW	.1	.3	*	.0	.0	.0	14	.4	6.7	.3	.0	.3	.6	.4	.0	.6	.6
SW	.1	.2	.1	.0	.0	.0	15	.5	6.5	.4	.0	.8	.0	.3	.0	.4	1.2
WSW	.1	.3	*	.0	.0	.0	12	.4	6.5	.9	1.9	.0	.0	.0	.0	.6	.0
W	.1	.4	*	.0	.0	.0	16	.5	6.1	.4	.0	.8	.6	.7	.0	.2	.0
WNW	.1	.2	*	.0	.0	*	11	.3	10.7	.4	.0	.5	.6	.4	.0	.1	.0
NW	.4	.5	.1	.0	.0	.0	32	1.0	5.5	.4	.0	2.1	1.3	1.5	.0	.2	.6
NNW	.4	1.3	.3	.0	.0	.0	66	2.0	6.5	1.3	.0	3.4	3.8	4.1	.0	.0	.0
VAR	.2	.0	.0	.0	.0	.0	6	.2	2.2	.3	.0	.2	.0	.3	.0	.1	.0
CALM	2.3						78	2.3	.0	2.2	7.4	3.0	4.5	3.1	1.8	.9	1.2
TOT	314	1465	1378	167	2	1	3327	100.0	11.0	692	54	609	156	732	112	807	165
PCT	9.4	44.0	41.4	5.0	.1	*	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	4.5	6.2	.8	.0	.0	382	11.5	8.8	14.3	20.4	11.0	14.7	16.9	8.0	4.0	10.3
NE	5.9	18.0	7.0	.3	.0	1040	31.3	12.4	33.8	44.4	35.0	30.8	26.6	42.9	29.6	23.6
E	6.2	23.9	7.9	.4	.0	1279	38.4	12.3	35.5	18.5	33.0	32.7	35.1	40.2	48.5	47.3
SE	2.9	5.4	.9	.1	.0	308	9.3	9.7	8.2	5.6	7.7	9.6	7.5	6.3	12.8	12.7
S	1.3	1.1	*	.0	.0	82	2.5	7.0	1.7	1.9	2.5	1.3	3.4	.9	2.6	3.0
SW	.5	.3	.0	.0	.0	27	.8	6.5	1.3	1.9	.8	.0	.3	.0	1.0	1.2
W	.6	.2	.0	.0	*	27	.8	8.0	.9	.0	1.3	1.3	1.1	.0	.4	.0
NW	1.9	1.1	*	.0	.0	98	2.9	6.2	1.7	.0	5.6	5.1	5.6	.0	.2	.6
VAR	.2	.0	.0	.0	.0	6	.2	2.2	.3	.0	.2	.0	.3	.0	.1	.0
CALM	2.3					78	2.3	.0	2.2	7.4	3.0	4.5	3.1	1.8	.9	1.2
TOT	877	1870	554	25	1	3327	100.0	11.0	692	54	609	156	732	112	807	165
PCT	26.4	56.2	16.7	.8	*	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1880-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	1.3	9.4	9.6	1.4	*	.0	.1	.6	11.4	22.4	746
06&09	2.0	10.8	8.6	.8	.0	*	*	.8	10.3	23.0	765
12&15	2.0	11.8	9.9	.9	.0	.0	.1	.8	10.3	25.4	844
18&21	1.6	12.0	13.4	1.9	*	.0	*	.3	11.9	29.2	972
TOT	230	1465	1378	167	2	1	6	78	11.0		3327
PCT	6.9	44.0	41.4	5.0	.1	*	.2	2.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION					MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	
N	2.2	1.5	1.5	.4	162	3.6
NNE	2.3	1.6	2.1	.5	189	3.9
NE	5.1	4.3	4.2	.8	420	3.7
ENE	5.9	4.8	5.1	1.4	503	3.8
E	8.5	7.8	9.4	1.7	801	4.0
ESE	3.0	2.7	3.4	.9	291	4.0
SE	1.8	1.7	2.2	.5	180	4.1
SSE	.7	.7	1.1	.2	80	4.3
S	.7	.5	.7	.3	63	4.3
SSW	.1	*	.3	.0	13	4.5
SW	.2	.1	.1	.1	14	4.1
WSW	.1	.1	.2	*	12	4.7
W	.2	.2	.2	*	16	3.9
WNW	*	*	.2	.1	10	5.7
NW	.4	.2	.3	.1	29	3.7
NNW	.9	.5	.7	.2	65	3.7
VAR	.1	.0	.1	.0	6	3.3
CALM	1.1	.5	.6	.1	67	3.1
TOT	971	794	943	213	2921	3.9
PCT	33.2	27.2	32.3	7.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION														NH <5/8 ANY HGT	TOTAL OBS
000	150	300	600	1000	2000	3500	5000	6500	8000+						
149	299	599	999	1999	3499	4999	6499	7999							
N	.0	.0	.0	.0	.1	.2	*	*	*	*	*	*	*	5.1	162
NNE	.0	.0	.0	.1	.2	.2	.1	*	.0	.0	.0	.0	.0	5.9	189
NE	.0	.0	*	.1	.6	.4	.1	*	.1	.1	.1	.1	.0	13.1	420
ENE	.0	.0	.1	.2	.5	.8	.4	.1	.1	.1	.1	.1	.1	15.0	503
E	*	.0	*	.5	1.0	.4	.4	.1	.0	*	*	*	*	24.9	801
ESE	.0	.0	.1	.2	.4	.3	.1	*	.1	.0	.0	.0	.0	8.7	291
SE	.0	.0	*	.1	.2	.2	.1	*	*	.0	.0	.0	.0	5.4	180
SSE	.0	.0	.1	*	.2	*	.0	.0	.0	.0	.0	.0	.0	2.3	80
S	.0	.0	.0	*	.2	.1	*	.0	.0	.0	.0	.0	.0	1.7	63
SSW	.0	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.4	13
SW	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.4	14
WSW	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.4	12
W	.0	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.4	16
WNW	.0	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.3	10
NW	.0	.0	.0	.0	.1	.0	.0	.0	*	.0	.0	.0	.0	.9	29
NNW	.0	.0	.0	.0	*	.0	*	*	.0	.0	.0	.0	.0	2.1	65
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	6
CALM	.0	.0	*	.0	*	*	.0	.0	.0	.0	.0	.0	.0	2.2	67
TOT	1	0	10	40	109	83	34	13	15	5	2611			2921	
PCT	*	.0	.3	1.4	3.7	2.8	1.2	.4	.5	.2	89.4			100.0	



JULY

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1880-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	.4	.7	.7	.7	.7	.7	.7
= OR >5000	.8	1.1	1.1	1.1	1.1	1.1	1.1
= OR >3500	1.6	2.3	2.3	2.3	2.3	2.3	2.3
= OR >2000	3.9	5.1	5.2	5.2	5.2	5.3	5.3
= OR >1000	6.9	8.7	8.9	8.9	8.9	9.0	9.0
= OR >600	8.0	10.0	10.2	10.2	10.3	10.3	10.3
= OR >300	8.2	10.3	10.5	10.5	10.6	10.7	10.7
= OR >150	8.2	10.3	10.5	10.5	10.6	10.7	10.7
= OR > 0	8.3	10.3	10.5	10.6	10.6	10.7	10.7
TOTAL	244	305	311	312	313	316	316

TOTAL NUMBER OF OBS: 2948

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.3	24.1	32.2	13.2	7.6	4.4	3.6	1.3	1.4	.0	3066

JULY

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1880-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.1	
	NO PCP	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*	
	TOTAL	0	0	0	0	0	1	0	1	2	0	0	0	0	0	0	0	0	0	4	.1	
1/2<1	PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	TOTAL	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	1	*	
	NO PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	2	.1
	TOTAL	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	3	.1
2<5	PCP	.0	*	.0	.0	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.2	
	NO PCP	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.2	
	TOTAL	0	1	0	0	6	3	1	0	0	0	0	0	0	0	0	0	0	0	11	.4	
5<10	PCP	.0	.1	*	.1	.1	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	11	.4	
	NO PCP	1.3	1.2	1.9	3.1	3.8	1.2	.6	.6	.4	.1	.0	.1	*	.2	.3	.8	.0	.4	455	15.9	
	TOTAL	36	36	54	92	112	35	16	18	12	3	1	3	1	5	8	23	0	11	466	16.3	
10<6>	PCP	.0	.0	.1	.0	.1	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.2	
	NO PCP	4.2	5.2	12.4	13.8	23.3	8.6	5.5	2.1	1.6	.3	.5	.3	.5	.1	.7	1.5	.2	1.8	2369	82.8	
	TOTAL	121	148	358	396	668	248	157	60	48	10	13	9	15	4	21	42	6	52	2376	83.0	
TOTAL	157	186	412	488	787	287	174	79	62	13	14	12	16	10	29	65	6	64	2861	100.0		
PCT	5.5	6.5	14.4	17.1	27.5	10.0	6.1	2.8	2.2	.5	.5	.4	.6	.3	1.0	2.3	.2	2.2	100.0			

JULY

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1880-1967

TABLE 9

AREA 003 GUANTANAMO  
18-20N 74-76W

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	11-21	.0	.0	.0	.0	.0	*	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.1	
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	TOTAL	0	0	0	0	0	1	0	1	2	0	0	0	0	0	0	0	0	0	0	4	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	11-21	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*	
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	TOTAL	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	*
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	1	*	
	11-21	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*	
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	TOTAL	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	3	.1
2<5	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	4-10	.0	*	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.1
	11-21	.0	.0	.0	.0	.2	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.2
	22&>	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	0	1	0	0	6	3	1	0	0	0	0	0	0	0	0	0	0	0	0	11	.4
5<10	0-3	.1	.1	.2	.1	.2	.0	.1	.1	.1	*	*	.0	.0	*	.1	.1	.0	.0	.4	49	1.7
	4-10	.7	.6	.4	.7	.7	.6	.4	.3	.2	.1	.0	.1	.0	.1	.1	.5	.0	.0	161	5.5	
	11-21	.6	.5	1.0	1.8	2.7	.5	.2	.3	.1	*	*	.0	*	*	.2	.2	.0	.0	236	8.0	
	22&>	.0	.0	.2	.5	.4	.1	.0	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	40	1.4	
	TOTAL	41	36	55	93	119	35	19	19	12	4	2	3	1	5	8	23	0	11	486	16.5	
10&>	0-3	.6	.7	.6	.7	1.0	.3	.1	.2	.3	*	.1	.1	.1	.1	.3	.4	.2	1.9	224	7.6	
	4-10	2.3	2.0	3.7	3.3	5.8	2.7	2.3	1.2	1.1	.2	.2	.2	.4	.1	.3	.7	.0	.0	783	26.6	
	11-21	1.2	2.4	7.6	9.0	14.9	5.1	3.0	.7	.3	.1	.1	.1	.1	.0	.1	.3	.0	.0	1326	45.0	
	22&>	*	.1	.5	.9	1.5	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	110	3.7	
	TOTAL	122	151	367	412	683	256	164	63	49	10	13	9	15	5	21	42	6	55	2443	82.9	
TOTAL PCT	163	189	422	505	809	295	184	83	63	14	15	12	16	11	29	65	6	67	2948	100.0		
		5.5	6.4	14.3	17.1	27.4	10.0	6.2	2.8	2.1	.5	.5	.4	.5	.4	1.0	2.2	.2	2.3	100.0		

JULY

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1880-1967

TABLE 10

AREA 003 GUANTANAMO  
18-20N 74-76W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.1	.4	1.0	.7	.5	.1	.2	.0	92	20.6	721
06&09	.0	.0	.1	.4	.9	.8	.3	.1	.1	.1	78	18.4	640
12&15	*	.0	*	.3	.9	.8	.2	.1	.1	.1	76	23.9	807
18&21	.0	.0	.1	.3	.8	.7	.2	.1	.2	.0	70	26.7	887
TOT PCT	1 *	0 .0	10 .3	40 1.3	110 3.6	88 2.9	34 1.1	13 .4	15 .5	5 .2	316 10.3	2739 89.7	3055 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.0	.1	.2	3.5	19.8	699
06&09	*	.0	.0	.1	3.8	17.0	619
12&15	.0	.0	*	.1	4.6	21.9	785
18&21	*	*	.0	.1	4.6	24.1	855
TOT PCT	4 .1	1 *	3 .1	11 .4	489 16.5	2450 82.8	2958 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ &OR5+	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	3.1	20.5	699
06&09	.0	*	*	2.6	18.3	619
12&15	.0	.0	.1	2.5	24.0	785
18&21	.0	.0	.0	2.4	26.5	855
TOT PCT	0 .0	1 *	2 .1	313 10.6	2642 89.3	2958 100.0

JULY

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1880-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
95/99	.0	.0	.0	*	*	.0	.0	.0	2	.1
90/94	.0	.0	.0	.1	1.1	.6	.0	.0	44	1.8
85/89	.0	.0	.1	.7	6.1	14.1	3.6	.6	613	25.1
80/84	.0	*	.0	.2	4.3	29.1	29.3	4.8	1655	67.7
75/79	.0	.0	.0	.0	.0	1.2	2.7	1.2	126	5.2
70/74	.0	.0	.0	.0	.0	.0	.1	.1	4	.2
TOTAL	0	1	3	24	282	1099	872	163	2444	100.0
PCT	.0	*	.1	1.0	11.5	45.0	35.7	6.7		

TABLE 14

	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW				
95/99	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90/94	.1	.7	.8	.1	.1	.0	.0	.0	.0	.0	.0	.1
85/89	1.9	7.9	10.4	2.9	.9	.4	.1	.2	*	*	.3	
80/84	7.2	21.8	26.1	6.5	1.5	.5	.5	1.6	.2	.2	1.7	
75/79	1.7	.6	1.1	.2	.2	.1	.2	.9	.0	.0	.2	
70/74	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	
TOTAL	268	759	941	239	66	24	19	66	6	6	56	
PCT	11.0	31.1	38.5	9.8	2.7	1.0	.8	2.7	.2	.2	2.3	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00&03	94	90	87	83	80	75	71	83.5	745
06&09	89	87	85	82	77	75	74	81.9	768
12&15	91	91	88	83	77	75	71	82.3	848
18&21	95	94	91	86	82	80	75	85.4	969
TOT	95	91	88	83	78	75	71	83.3	3330

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00&03	.0	.2	2.4	10.6	8.5	1.6	78	572
06&09	.0	.1	.4	8.0	11.4	2.8	82	557
12&15	.0	.2	2.0	11.6	10.5	1.5	79	636
18&21	.0	.6	6.7	14.8	5.1	.7	74	687
TOT	0	28	283	1104	873	164	78	2452

JULY

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1880-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	93 96	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.1	*	.1	6	.0	.2
9/10	.0	.0	.0	.0	.0	.1	.2	8	.0	.3
7/8	.0	.0	*	.1	.1	.6	.1	25	.0	.9
6	.0	.0	*	.1	.3	.3	.0	21	.0	.7
5	.0	.0	*	.1	.7	.6	*	41	.0	1.4
4	.0	.0	*	.4	1.7	.4	.0	72	.0	2.5
3	.0	.0	*	.8	3.3	.2	.0	126	.0	4.4
2	.0	.0	.0	2.3	4.3	*	.0	189	.0	6.7
1	.0	.0	*	4.5	5.3	.1	.0	283	.0	10.0
0	.0	.0	*	11.6	4.0	.0	.0	444	.0	15.7
-1	.0	.0	.1	12.1	3.1	.0	.0	433	.0	15.3
-2	.0	.0	.4	11.5	1.3	.0	.0	372	.0	13.1
-3	.0	.0	.9	7.7	.7	*	.0	267	*	9.4
-4	.0	*	1.5	4.5	.4	.0	.0	183	.0	6.5
-5	.0	.0	1.2	2.5	*	.0	.0	104	.0	3.7
-6	.0	.1	1.9	1.4	*	.0	.0	97	.0	3.4
-7/-8	.0	.6	2.4	1.1	*	.0	.0	114	.0	4.0
-9/-10	.0	.6	.9	*	*	.0	.0	45	.0	1.6
-11/-13	.0	.0	.1	.1	.0	.0	.0	4	.0	.1
TOTAL	0	36	271	1720	726	69	12	2834	1	2833
PCT	.0	1.3	9.6	60.7	25.6	2.4	.4	100.0	*	*100.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

JULY  
TABLE 18

AREA 003 GUANTANAMO  
18-20N 74-76W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							TOTAL	NE						
	1-3	4-10	11-21	22-33	34-37	48+	1-3		4-10	11-21	22-33	34-37	48+		
<1	1.3	2.7	.0	.0	.0	.0	25	.6	.6	.0	.0	.0	.0	.0	8
1-2	.2	2.9	1.0	.2	.0	.0	26	.3	6.1	2.4	.2	.0	.0	.0	56
3-4	.0	1.4	1.6	.0	.0	.0	19	.2	2.1	7.5	.3	.0	.0	.0	63
5-6	.0	.0	.2	.0	.0	.0	1	.0	1.0	4.6	.5	.0	.0	.0	38
7	.0	.0	.2	.0	.0	.0	1	.0	.0	3.0	.8	.0	.0	.0	24
8-9	.0	.0	.2	.0	.0	.0	1	.0	.0	.6	.0	.0	.0	.0	4
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.2	.0	.0	.0	3
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	9	44	19	1	0	0	73	7	61	116	12	0	0	0	196
PCT	1.4	7.0	3.0	.2	.0	.0	11.6	1.1	9.7	18.5	1.9	.0	.0	.0	31.2

HGT	E							TOTAL	SE						
	1-3	4-10	11-21	22-33	34-37	48+	1-3		4-10	11-21	22-33	34-37	48+		
<1	.8	2.5	.0	.0	.0	.0	21	.3	1.3	.2	.0	.0	.0	.0	11
1-2	.0	5.7	5.7	.3	.0	.0	74	.3	2.5	1.3	.0	.0	.0	.0	26
3-4	.2	5.9	8.0	.8	.0	.0	93	.0	1.4	.0	.0	.0	.0	.0	9
5-6	.0	1.1	5.1	.6	.0	.0	43	.0	.2	.8	.0	.0	.0	.0	6
7	.0	.3	.6	.2	.0	.0	7	.0	.2	.3	.0	.0	.0	.0	3
8-9	.0	.2	.2	.2	.0	.0	3	.0	.2	.0	.0	.0	.0	.0	1
10-11	.0	.0	.0	.2	.0	.0	1	.0	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	6	99	123	14	0	0	242	4	36	16	0	0	0	0	56
PCT	1.0	15.8	19.6	2.2	.0	.0	38.5	.6	5.7	2.5	.0	.0	.0	.0	8.9

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

JULY  
TABLE 18

AREA 003 GUANTANAMO  
18-20N 74-76W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						TOTAL	SW						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.0	.8	.0	.0	.0	.0	5	.5	.5	.0	.0	.0	.0	6
1-2	.0	1.3	.3	.0	.0	.0	10	.0	.8	.5	.0	.0	.0	8
3-4	.2	.5	.0	.0	.0	.0	4	.0	.0	.0	.0	.0	.0	0
5-6	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	16	2	0	0	0	19	3	8	3	0	0	0	14
PCT	.2	2.5	.3	.0	.0	.0	3.0	.5	1.3	.5	.0	.0	.0	2.2

HGT	W						TOTAL	NW						TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+		
<1	.0	.2	.0	.0	.0	.0	1	1.4	.8	.0	.0	.0	.0	14	91
1-2	.0	.3	.0	.0	.0	.0	2	.0	1.0	.5	.0	.0	.0	9	211
3-4	.2	.2	.0	.0	.0	.0	2	.0	.0	.0	.0	.0	.0	0	190
5-6	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	88
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	35
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	9
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	4
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	1	4	0	0	0	0	5	9	11	3	0	0	0	23	628
PCT	.2	.6	.0	.0	.0	.0	.8	1.4	1.8	.5	.0	.0	.0	3.7	100.0



JULY

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)							
HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	7.9	9.1	.2	.0	.0	.0	111
1-2	.8	19.9	11.3	.6	.0	.0	211
3-4	.6	11.1	16.5	1.1	.0	.0	190
5-6	.0	2.2	10.3	1.1	.0	.0	88
7	.0	.5	4.0	.9	.0	.0	35
8-9	.0	.3	.7	.2	.0	.0	9
10-11	.0	.0	.3	.3	.0	.0	4
12	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	60	279	282	27	0	0	648
PCT	9.3	43.1	43.5	4.2	.0	.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	28.9	24.5	6.6	1.4	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	440	2
6-7	.1	.7	4.5	5.5	3.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	4
8-9	.0	.3	1.0	2.3	1.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	5
10-11	.0	.1	.0	.4	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	6
12-13	.0	.0	.0	.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
>13	.0	.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
INDET	12.5	.9	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	95	0
TOTAL	97	215	210	103	52	13	5	0	0	0	0	0	0	0	0	0	0	0	0	695	3
PCT	14.0	30.9	30.2	14.8	7.5	1.9	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1867-1967

AUGUST

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
N	*	.1	*	.0	.0	.0	.0	4	.7	*	.1	.0	24	194	.1	
NNE	*	.0	*	.0	.0	.0	.0	2	.6	.0	.2	.0	25	217	.1	
NE	*	.1	.0	.0	.0	.0	.0	5	1.4	.0	.1	.0	48	450	.2	
ENE	.1	.1	*	.0	.0	.0	.0	8	2.2	.0	.2	.0	43	483	.2	
E	.1	.1	.1	.0	.0	.0	.0	10	1.2	.0	.2	.0	44	746	.3	
ESE	.1	.2	.0	.0	.0	.0	.0	8	.7	.0	.1	*	25	332	.2	
SE	.1	.1	*	.0	.0	.0	.0	6	.3	.0	.0	.0	10	237	.2	
SSE	*	*	.0	.0	.0	.0	.0	2	.2	.0	*	.0	8	115	.1	
S	*	.0	.0	.0	.0	.0	.0	1	.1	.0	*	.0	5	63	*	
SSW	.0	.0	.0	.0	.0	.0	.0	0	*	.0	*	.0	2	32	.0	
SW	.0	*	.0	.0	.0	.0	.0	1	.1	.0	.0	.0	2	25	*	
WSW	.1	.0	*	.0	.0	.0	.0	3	.1	.0	.0	.0	2	15	.1	
W	*	.0	*	.0	.0	.0	.0	2	*	.0	*	.0	2	38	.1	
WNW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	19	.0	
NW	.0	.1	.0	.0	.0	.0	.0	3	.4	.0	.0	.0	12	51	.1	
NNW	.0	.0	.0	.0	.0	.0	.0	0	.4	.0	*	.0	13	88	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	7	.0	
CALM	*	.0	.0	.0	.0	.0	.0	1	.2	*	.1	.0	10	111	*	
TOT	23	24	9	0	0	0	0	56	241	2	31	1	275	3223		
PCT	.7	.7	.3	.0	.0	.0	.0	1.7	7.5	.1	1.0	*	8.5	100.0	1.7	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
00603	.1	.2	.1	.0	.0	.0	.0	13	2.3	.0	.2	.0	83	822	.4	
06609	.4	.3	.1	.0	.0	.0	.0	24	4.8	*	.2	.0	165	840	.7	
12615	.2	.1	*	.0	.0	.0	.0	10	.2	*	.3	*	20	728	.3	
18621	.1	.2	*	.0	.0	.0	.0	10	.1	.0	.2	.0	9	853	.3	
TOT	24	24	9	0	0	0	0	57	243	2	31	1	277	3243		
PCT	.7	.7	.3	.0	.0	.0	.0	1.8	7.5	.1	1.0	*	8.5	100.0	1.8	

AUGUST

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1867-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.2	3.6	.9	*	.0	.0	200	5.8	7.2	4.9	11.9	4.1	11.9	12.3	2.9	2.2	1.5
NNE	.7	3.5	2.3	.1	.0	.0	230	6.6	9.2	10.3	3.6	6.3	8.0	8.0	3.6	3.0	5.6
NE	.8	5.3	5.9	.9	*	.0	486	14.0	11.7	18.6	23.8	16.5	8.5	12.1	12.1	10.0	10.7
ENE	.5	6.0	7.6	1.0	*	.0	525	15.1	12.6	12.3	25.0	16.9	24.4	12.4	20.7	14.2	15.2
E	1.4	11.5	9.7	.6	.0	.0	810	23.3	10.9	21.3	10.7	24.5	15.3	19.7	30.7	28.6	25.4
ESE	.3	5.2	4.5	.3	.0	.0	359	10.3	11.3	8.7	6.0	7.3	9.1	8.6	9.3	16.3	14.2
SE	.5	4.3	2.8	.1	.0	.0	249	7.7	9.8	6.8	1.2	5.6	3.4	6.3	10.0	12.2	11.7
SSE	.5	2.1	.9	.1	.0	.0	124	3.6	8.7	3.9	.0	2.9	1.7	3.0	1.4	4.8	6.6
S	.4	1.0	.4	*	.0	.0	63	1.8	7.5	2.4	1.2	2.1	1.1	1.9	2.1	1.3	1.0
SSH	.1	.7	.1	.0	.0	.0	33	.9	7.3	1.1	.0	.7	.0	1.1	.7	1.0	2.0
SW	.1	.7	*	.0	.0	.0	30	.9	6.3	.4	.0	1.2	1.1	.6	.0	1.0	2.0
WSW	.1	.3	*	.0	.0	.0	14	.4	6.5	.7	.0	.4	.0	.5	.7	.3	.0
W	.2	.9	.1	.0	.0	.0	41	1.2	6.5	1.6	.0	1.2	2.3	1.1	1.4	.8	.5
WNW	.2	.3	.1	*	.0	.0	20	.6	6.5	.7	.0	1.2	.6	.5	.7	.1	.0
NW	.3	1.1	.2	.0	.0	.0	53	1.5	6.3	1.6	4.8	2.8	1.1	1.7	.7	.3	.5
NNW	.5	1.9	.1	.0	.0	.0	89	2.6	5.8	1.2	10.7	3.2	6.8	5.2	.0	.4	.0
VAR	.2	*	.0	.0	.0	.0	7	.2	2.4	.3	.0	.4	.0	.2	.0	.0	.5
CALM	3.5						121	3.5	.0	3.5	1.2	2.6	4.5	4.9	2.9	3.5	2.5
TOT	408	1709	1244	111	2	0	3474	100.0	10.0	751	84	727	176	636	140	763	197
PCT	11.7	49.2	35.8	3.2	.1	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	5.4	6.4	.6	*	.0	430	12.4	8.3	15.2	15.5	10.5	19.9	20.3	6.4	5.2	7.1
NE	5.6	17.1	6.1	.3	*	1011	29.1	12.2	30.9	48.8	33.4	33.0	24.5	32.9	24.1	25.9
E	7.6	21.3	4.6	.1	.0	1169	33.6	11.0	30.0	16.7	31.8	24.4	28.3	40.0	44.8	39.6
SE	3.6	6.7	.9	*	.0	393	11.3	9.5	10.7	1.2	8.5	5.1	9.3	11.4	17.0	18.3
S	1.6	1.1	.1	*	.0	96	2.8	7.4	3.5	1.2	2.8	1.1	3.0	2.9	2.4	3.0
SW	.7	.5	.0	.0	.0	44	1.3	6.4	1.1	.0	1.7	1.1	1.1	.7	1.3	2.0
W	1.1	.6	.1	.0	.0	61	1.8	6.5	2.3	.0	2.5	2.8	1.6	2.1	.9	.5
NW	2.6	1.5	.0	.0	.0	142	4.1	6.0	2.8	15.5	5.9	8.0	6.9	.7	.7	.5
VAR	.2	.0	.0	.0	.0	7	.2	2.4	.3	.0	.4	.0	.2	.0	.0	.5
CALM	3.5					121	3.5	.0	3.5	1.2	2.6	4.5	4.9	2.9	3.5	2.5
TOT	1105	1918	432	18	1	3474	100.0	10.0	751	84	727	176	636	140	763	197
PCT	31.8	55.2	12.4	.5	*	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1867-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	2.2	11.5	8.3	1.2	*	.0	.1	.8	10.1	24.0	835
06&09	2.4	12.9	9.1	.7	.0	.3	.1	.8	9.8	26.0	903
12&15	1.9	11.4	7.7	.3	*	.0	*	1.0	9.3	22.3	776
18&21	1.6	13.3	10.8	1.0	.0	.0	*	.9	10.6	27.6	960
TOT	281	1708	1244	111	2	0	7	121	10.0		3474
PCT	8.1	49.2	35.8	3.2	.1	.0	.2	3.5		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBS		
N	2.7	1.2	2.0	.4	192	3.6
NNE	2.4	2.1	1.8	.4	207	3.7
NE	3.0	3.7	4.1	.9	420	3.7
ENE	5.1	4.2	4.6	.9	456	3.8
E	6.8	7.8	7.6	1.4	727	3.9
ESE	2.3	2.9	4.2	.7	311	4.4
SE	2.2	2.1	2.7	.5	231	4.0
SSE	.9	1.1	1.3	.2	109	4.0
S	.4	.7	.5	.1	53	4.1
SSW	.2	.5	.3	.0	31	3.6
SW	.2	.2	.4	*	23	4.4
WSW	.1	.1	.2	*	14	4.7
W	.4	.4	.3	.1	36	3.4
WNW	.3	.1	.2	*	19	3.2
NW	.7	.2	.7	.1	51	3.9
NNW	1.5	.5	.6	.1	86	3.0
VAR	*	.2	.0	.0	7	3.1
CALM	1.2	.9	1.0	.1	100	3.6
TOT	1002	889	997	185	3073	3.9
PCT	32.6	28.9	32.4	6.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

WIND DIR	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										NH <5/8 ANY HGT	TOTAL OBS
	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+		
N	.0	.0	.1	.1	.3	.1	*	*	*	*	5.6	192
NNE	*	.0	.1	.2	.1	.1	.0	*	*	.0	6.2	207
NE	.0	.0	*	.2	.5	.5	.1	*	*	*	12.3	420
ENE	.0	.0	*	.3	.7	.4	.2	.1	*	*	13.0	456
E	.0	.0	.1	.6	1.4	.7	.3	.1	.1	.1	20.4	727
ESE	.0	.0	.0	.5	.5	.3	*	.0	.0	*	8.8	311
SE	.0	*	.0	.1	.5	.4	.1	.1	*	.0	6.2	231
SSE	.0	.0	.0	.1	.2	.2	*	.0	*	.0	3.0	109
S	.0	.0	.0	*	.1	.1	.0	*	*	.0	1.4	53
SSW	.0	.0	.0	.0	.1	*	.0	.0	.0	*	.8	31
SW	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.7	23
WSW	.0	.0	.0	.0	.1	*	.0	*	*	*	.3	14
W	.0	.0	.0	.0	.1	*	*	.0	.0	.0	1.0	36
WNW	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.6	19
NW	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	1.5	51
NNW	.0	.0	.0	.1	*	.1	.0	.0	.0	.1	2.6	86
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	7
CALM	*	.0	.0	*	.1	*	.1	*	.0	.0	3.0	100
TOT	3	1	11	63	141	99	29	16	10	10	2690	3073
PCT	.1	*	.4	2.1	4.6	3.2	.9	.5	.3	.3	87.5	100.0

AUGUST

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1967-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	.5	.6	.6	.6	.6	.6	.6
= OR >5000	.9	1.2	1.2	1.2	1.2	1.2	1.2
= OR >3500	1.6	2.1	2.1	2.1	2.1	2.1	2.1
= OR >2000	3.7	5.3	5.3	5.4	5.4	5.4	5.4
= OR >1000	7.2	9.8	9.9	9.9	9.9	9.9	9.9
= OR >600	8.9	11.8	11.9	11.9	12.0	12.0	12.0
= OR >300	9.2	12.1	12.2	12.3	12.3	12.3	12.3
= OR >150	9.2	12.2	12.2	12.3	12.3	12.4	12.4
= OR > 0	9.3	12.2	12.3	12.4	12.4	12.5	12.5
TOTAL	286	376	380	382	383	384	384

TOTAL NUMBER OF OBS: 3078

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.1	22.1	32.3	14.5	8.3	5.2	4.5	1.6	1.4	*	3223

AUGUST

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1867-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	NO PCP	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2	.1
1/2<1	PCP	.0	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	NO PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	3	.1
1<2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	TOTAL	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	.1
2<5	PCP	.0	.0	.0	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	4	.1
	NO PCP	.0	*	*	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	7	.2
	TOTAL	0	1	1	2	2	2	0	0	0	0	0	0	0	0	1	1	0	1	11	.4
5<10	PCP	*	*	*	.1	.1	.1	.1	*	.0	.0	*	.0	*	.0	.1	.0	.0	.0	18	.6
	NO PCP	1.2	.6	1.3	1.9	2.2	.8	.5	.3	.1	.2	.1	.1	.2	.3	.2	.4	.1	.4	322	10.8
	TOTAL	37	20	39	58	67	28	18	11	4	5	3	3	7	8	8	11	2	11	340	11.4
10E>	PCP	.1	*	.1	.1	.2	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	*	19	.6
	NO PCP	5.0	6.1	12.2	12.8	20.7	9.1	6.4	3.2	1.6	.9	.7	.3	1.0	.4	1.4	2.5	.2	2.9	2592	87.2
	TOTAL	153	182	364	383	521	272	190	94	49	26	20	11	29	11	41	73	5	87	2611	87.9
TOTAL	190	203	405	443	696	303	208	106	53	31	23	14	36	19	50	85	7	99	2971	100.0	
PCT	6.4	6.8	13.6	14.9	23.4	10.2	7.0	3.6	1.8	1.0	.8	.5	1.2	.6	1.7	2.9	.2	3.3	100.0		

AUGUST

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1867-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	22&>	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	TOTAL	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	3	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.1
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	.1
2<5	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	2	.1
	4-10	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	3	.1
	11-21	.0	.0	.0	*	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	5	.2
	22&>	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	0	1	1	2	2	2	0	0	0	0	0	0	0	0	1	1	0	1	11	.4
5<10	0-3	.3	.1	.1	.1	.2	.0	*	.1	.1	*	.0	.0	*	.1	.1	.1	.1	.4	50	1.6
	4-10	.6	.3	.3	.6	.7	.3	.4	.1	.0	.1	.1	.1	.2	.1	.2	.3	.0	.0	135	4.4
	11-21	.3	.3	.8	1.0	1.5	.7	.4	.2	*	*	.0	.0	.0	*	*	.1	.0	.0	160	5.4
	22&>	.0	.0	.2	.3	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	.7
	TOTAL	37	21	42	59	80	31	27	12	4	5	4	3	7	8	8	12	2	11	373	12.1
10&>	0-3	1.0	.7	.7	.3	1.3	.3	.4	.4	.3	.1	.2	.1	.2	.1	.2	.5	.1	2.8	300	9.7
	4-10	2.7	2.5	4.1	3.2	7.3	3.3	3.2	1.2	.8	.5	.4	.2	.5	.1	.9	1.6	*	.0	1011	32.8
	11-21	1.3	2.6	6.6	8.5	11.6	5.2	3.1	1.5	.5	.3	.1	.1	.2	.1	.2	.3	.0	.0	1293	42.0
	22&>	*	.1	.8	.8	.4	.4	*	*	*	.0	.0	.0	.0	*	.0	.0	.0	.0	81	2.6
	TOTAL	155	184	376	396	641	279	205	96	49	26	20	11	29	11	42	73	5	87	2685	87.2
TOTAL PCT		192	206	420	457	729	313	232	109	53	31	24	14	35	19	51	86	7	99	3078	100.0
		6.2	6.7	13.6	14.8	23.7	10.2	7.5	3.5	1.7	1.0	.8	.5	1.2	.6	1.7	2.8	.2	3.2	100.0	

AUGUST

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1867-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	*	.0	.1	.5	1.3	.6	.2	.1	.1	.2	103	22.4	819
06009	*	.0	.1	.7	1.0	.7	.2	.1	.1	.1	93	21.4	777
12015	*	.0	.1	.5	1.1	.7	.2	.2	.1	.1	96	20.5	751
18021	.0	*	*	.4	1.0	1.1	.2	.1	*	*	95	23.7	854
TOT	3	1	11	63	143	100	30	16	10	10	387	2814	3201
PCT	.1	*	.3	2.0	4.5	3.1	.9	.5	.3	.3	12.1	87.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.1	.1	2.9	22.6	793
06009	*	.1	*	.1	3.4	21.0	760
12015	*	.0	.0	.1	2.8	20.4	723
18021	.0	*	*	.1	3.0	23.2	815
TOT	2	3	4	11	37.6	2695	3091
PCT	.1	.1	.1	.4	12.2	87.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ &OR5+	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	3.3	22.3	793
06009	.0	.0	.1	2.9	21.6	760
12015	.0	.0	*	3.0	20.3	723
18021	.0	.0	*	3.0	23.3	815
TOT	0	0	4	382	2705	3091
PCT	.0	.0	.1	12.4	87.5	100.0



AUGUST

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1867-1967

AREA 003 GUANTANAMO  
13-20N 74-76W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
95/99	.0	.0	.0	.0	.1	.0	.0	.0	2	.1
90/94	*	.0	.1	.6	1.0	.8	.3	*	73	2.8
85/89	.0	.0	.1	1.5	7.0	14.7	4.4	.9	747	28.6
80/84	*	.0	.0	.4	4.5	27.0	26.3	4.7	1643	62.9
75/79	.0	.0	.0	.0	*	1.6	2.8	1.0	142	5.4
70/74	.0	.0	.0	.0	.0	.0	.1	*	3	.1
65/69	.0	.0	.0	.0	*	.0	.0	.0	1	*
TOTAL	2	0	5	64	331	1149	883	177	2611	100.0
PCT	.1	.0	.2	2.5	12.7	44.0	33.8	6.8		

TABLE 14

	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW				
95/99	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0
90/94	.2	.7	1.2	.5	.1	.0	.0	.0	.0	.0	.0	.1
85/89	2.7	8.1	10.5	4.2	.7	.4	.4	.3	*	*	1.3	
80/84	6.5	20.9	21.9	6.3	1.9	.7	.9	1.9	.2	*	1.6	
75/79	2.1	.3	.7	.2	*	.0	.2	1.6	.0	.0	.3	
70/74	*	.0	.0	*	.0	.0	*	.0	.0	.0		
65/69	.0	.0	.0	.0	*	.0	.0	.0	.0	.0		
TOTAL	303	786	898	292	71	29	40	100	6	86		
PCT	11.6	30.1	34.4	11.2	2.7	1.1	1.5	3.8	.2	3.3		

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	94	91	88	84	81	77	75	83.8	836
06&09	88	87	85	82	77	75	74	82.0	910
12&15	93	90	87	83	78	76	72	82.5	775
18&21	95	94	91	85	81	77	67	85.7	959
TOT	95	90	87	82	77	75	67	83.6	3480

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.4	2.7	11.7	8.3	1.6	78	646		
06&09	.0	.0	.5	9.2	13.5	2.4	81	670		
12&15	.0	.5	2.4	10.0	8.2	2.0	78	607		
18&21	.1	1.7	7.2	13.2	3.7	.8	72	699		
TOT	2	69	333	1154	886	178	77	2622		

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1867-1967

AUGUST

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	93 96	TOT	W FOG	WD FOG
11/13	.0	.0	.0	*	.1	.0	3	.0	.1
9/10	.0	.0	*	*	.1	.1	10	.0	.3
7/8	.0	.0	*	.2	.3	.2	24	.0	.8
6	.0	*	.0	.3	.9	.1	36	.0	1.3
5	.0	.0	*	.7	.8	.0	49	.0	1.5
4	.0	.0	.2	1.4	.8	.0	66	*	2.3
3	.0	*	.3	2.5	.5	.0	98	.0	3.4
2	.0	.1	1.8	4.2	.3	.0	184	.0	6.4
1	*	*	2.9	5.7	.1	.0	252	.0	8.8
0	.0	*	8.3	4.5	*	.0	372	.0	12.9
-1	.0	.2	11.3	4.2	*	.0	451	.0	15.7
-2	.0	.3	13.8	1.3	.0	.0	446	.0	15.5
-3	.0	.7	8.4	1.2	.0	.0	298	.0	10.4
-4	*	1.3	4.9	.1	.0	.0	184	.0	6.4
-5	.1	1.9	3.3	.2	.0	.0	160	.0	5.6
-6	.1	2.0	1.5	.1	.0	.0	107	.0	3.7
-7/-8	.2	2.1	.8	*	.0	.0	90	.0	3.1
-9/-10	.3	.6	.1	.0	.0	.0	28	.0	1.0
-11/-13	.1	.6	*	.0	.0	.0	21	.0	.7
-14/-16	.1	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	27	289	1664	769	114	12	2875	1	2874
PCT	.9	10.1	57.9	26.7	4.0	.4	100.0	*100.0	

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

AUGUST

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	2.3	4.1	.0	.0	.0	.0	50	.5	2.3	.5	.0	.0	.0	26
1-2	.3	3.2	.8	.0	.0	.0	33	.6	6.7	2.3	.1	.0	.0	76
3-4	.0	1.2	.9	.0	.0	.0	16	.0	4.1	7.9	.8	.0	.0	99
5-6	.0	.3	.1	.0	.0	.0	3	.0	.6	3.6	.1	.0	.0	34
7	.0	.0	.0	.0	.0	.0	0	.0	.1	1.5	.5	.0	.0	17
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.1	.0	.0	1
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.1	.1	.0	2
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	20	68	14	0	0	0	102	9	108	123	14	1	0	255
PCT	2.6	8.8	1.8	.0	.0	.0	13.2	1.2	13.9	15.9	1.8	.1	.0	32.9

HGT	E							SE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	.8	2.7	.5	.0	.0	.0	31	.3	2.2	.0	.0	.0	.0	19
1-2	.8	7.4	4.5	.3	.0	.0	100	.5	3.1	1.0	.0	.0	.0	36
3-4	.0	4.0	5.3	.1	.0	.0	73	.0	1.2	.9	.0	.0	.0	16
5-6	.0	.4	4.8	.1	.0	.0	41	.0	.4	.6	.0	.0	.0	8
7	.0	.1	1.3	.3	.0	.0	13	.0	.0	.4	.0	.0	.0	3
8-9	.0	.1	.0	.0	.0	.0	1	.0	.0	.1	.0	.0	.0	1
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	12	114	127	6	0	0	259	6	53	24	0	0	0	83
PCT	1.5	14.7	16.4	.8	.0	.0	33.4	.8	6.8	3.1	.0	.0	.0	10.7

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

AUGUST

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	.0	.3	.0	.0	.0	.0	2	.1	.3	.0	.0	.0	.0	3
1-2	.0	.6	.4	.0	.0	.0	8	.0	.3	.0	.0	.0	.0	2
3-4	.0	.6	.1	.0	.0	.0	6	.0	.3	.0	.0	.0	.0	2
5-6	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.1	.0	.0	1	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	0	12	4	1	0	0	17	1	6	0	0	0	0	7
PCT	.0	1.5	.5	.1	.0	.0	2.2	.1	.8	.0	.0	.0	.0	.9

HGT	W							NW							GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	
<1	.5	.0	.0	.0	.0	.0	4	1.2	2.6	.0	.0	.0	.0	29	164
1-2	.1	.6	.1	.0	.0	.0	7	.1	.5	.1	.0	.0	.0	6	268
3-4	.0	.3	.1	.0	.0	.0	3	.1	.1	.0	.0	.0	.0	2	217
5-6	.0	.1	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0	87
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	33
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	3
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	2
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	1
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	5	8	2	0	0	0	15	11	25	1	0	0	0	37	775
PCT	.6	1.0	.3	.0	.0	.0	1.9	1.4	3.2	.1	.0	.0	.0	4.8	100.0

AUGUST

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

TABLE 18 (CONT)

AREA 003 GUANTANAMO  
18-20N 74-76W

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	8.8	14.0	1.0	.0	.0	.0	192
1-2	2.7	21.6	8.9	.4	.0	.0	271
3-4	.1	11.3	14.6	.9	.0	.0	217
5-6	.0	1.7	8.8	.2	.0	.0	87
7	.0	.2	3.1	.7	.0	.0	33
8-9	.0	.1	.1	.1	.0	.0	3
10-11	.0	.0	.0	.1	.1	.0	2
12	.0	.0	.0	.1	.0	.0	1
13-16	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	94	395	295	21	1	0	806
PCT	11.7	49.0	36.6	2.6	.1	.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.2	26.8	23.6	7.2	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	519	2
6-7	.0	2.3	4.0	4.6	2.8	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123	4
8-9	.0	.4	.5	1.1	1.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	5
10-11	.0	.0	.1	.1	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
12-13	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	2
>13	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
INDET	17.1	1.9	.6	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	170	0
TOTAL	165	270	249	112	45	11	3	1	0	0	0	0	0	0	0	0	0	0	0	856	2
PCT	19.3	31.5	29.1	13.1	5.3	1.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1867-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				MAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT DB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FGG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
N	*	.1	.0	.0	.0	.0	.0	3	.4	.0	.0	.0	11	173	.1	
NNE	*	.0	.0	.0	.0	.0	.0	1	.8	*	.0	.0	24	169	*	
NE	.1	.2	.0	.0	.0	.0	.0	9	1.4	.0	.0	.0	40	388	.3	
ENE	.1	.2	*	.0	.0	.0	.0	12	.8	.0	*	.0	25	315	.4	
E	.3	*	.0	.0	.0	.0	.0	10	1.5	.0	.1	.0	47	643	.3	
ESE	.2	.2	.0	.0	.0	.0	.0	12	.7	.0	*	.0	21	285	.4	
SE	.1	.2	.0	.0	.0	.0	.0	10	.7	.0	.0	.0	19	230	.3	
SSE	.0	*	.0	.0	.0	.0	.0	1	.2	.0	.0	*	6	96	*	
S	.0	*	.0	.0	.0	.0	.0	1	.4	.0	*	.0	12	125	*	
SSW	*	.1	.0	.0	.0	.0	.0	4	.0	.0	.1	.0	3	56	.1	
SW	*	*	.0	.0	.0	.0	.0	2	.1	.0	.0	.0	3	46	.1	
WSW	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.0	.0	4	36	.0	
W	.0	*	.0	.0	.0	.0	.0	1	*	.0	.0	.0	1	37	*	
WNN	.0	*	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	0	18	*	
NW	.0	.0	.0	.0	.0	.0	.0	0	*	.0	.0	.0	1	42	.0	
NNW	*	.0	.0	.0	.0	.0	.0	1	.1	.0	*	.0	5	72	*	
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	6	.0	
CALM	*	.0	.0	.0	.0	.0	*	2	.7	.0	*	.0	20	163	.1	
TOT	33	35	1	0	0	0	1	70	229	1	11	1	242	2900		
PCT	1.1	1.2	*	.0	.0	.0	*	2.4	7.9	*	.4	*	8.3	100.0	2.4	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				MAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT DB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FGG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
0003	.2	.1	.0	.0	.0	.0	*	9	3.1	.0	.1	.0	93	655	.3	
0609	.2	.4	*	.0	.0	.0	.0	18	4.3	*	.1	.0	131	699	.6	
1205	.5	.3	.0	.0	.0	.0	.0	23	.3	.0	*	.0	11	735	.8	
18021	.3	.4	.0	.0	.0	.0	.0	20	.1	.0	.2	*	10	854	.7	
TOT	33	35	1	0	0	0	1	70	232	1	11	1	245	2943		
PCT	1.1	1.2	*	.0	.0	.0	*	2.4	7.9	*	.4	*	8.3	100.0	2.4	

SEPTEMBER

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1867-1967

TABLE 3

AREA 003 GUANTANAMO  
18-20N 74-76W

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.1	4.1	.8	*	.0	.0	189	1.0	6.8	4.0	15.3	6.6	13.0	10.3	3.6	2.3	3.0
NNE	.8	3.5	1.7	.1	.0	.0	194	0.2	9.0	7.6	11.1	5.8	6.8	7.3	10.0	3.1	6.1
NE	1.1	7.1	5.0	.3	.0	.0	426	13.5	10.1	14.5	12.5	15.2	14.2	13.0	16.4	11.6	12.1
ENE	.6	5.7	4.0	.6	.0	.0	343	10.9	10.7	8.9	8.3	11.9	9.9	10.7	16.4	11.9	8.1
E	1.7	11.2	8.2	.7	*	.0	692	21.9	10.6	23.6	12.5	21.6	13.0	20.4	22.9	26.1	17.7
ESE	.7	4.7	3.9	.3	.1	.0	305	9.7	10.9	8.8	2.8	7.9	4.9	8.8	4.3	13.5	16.2
SE	.8	4.1	2.6	.2	*	.0	244	7.7	9.8	6.1	5.6	7.4	8.0	7.0	5.7	9.9	10.1
SSE	.3	2.4	.6	*	.0	.0	108	3.4	7.9	2.4	1.4	3.1	5.6	2.7	3.6	4.4	5.1
S	.8	2.5	1.0	.1	.0	.0	137	4.3	8.2	4.0	4.2	4.0	2.5	3.2	3.6	5.6	7.6
SSW	.4	1.3	.3	.0	.0	.0	64	2.0	7.0	2.9	4.2	2.0	1.2	1.3	1.4	1.9	3.0
SW	.3	1.0	.3	.0	.0	.0	51	1.6	7.4	1.7	.0	1.6	2.5	.6	.7	2.1	3.0
WSW	.2	.8	.2	.0	.0	.0	37	1.2	7.1	3.4	.0	.3	.0	.3	1.4	1.1	1.5
W	.3	.9	.2	.0	.0	.0	42	1.3	6.6	1.7	1.4	1.0	1.2	1.4	.7	.9	3.0
WNW	.1	.7	.0	.0	.0	.0	23	.7	6.2	.5	2.8	.5	1.2	.9	2.1	.5	.0
NW	.3	1.2	.1	*	.0	.0	49	1.6	6.8	.3	4.2	2.0	4.3	2.1	2.9	.8	1.0
NNW	.5	1.4	.4	*	.0	.0	74	2.3	7.0	1.9	2.8	2.1	6.2	4.6	.0	.9	1.0
VAR	.1	.1	.0	.0	.0	.0	6	.2	3.2	.3	.0	.3	.0	.2	.0	.1	.0
CALM	5.4						170	5.4	.0	7.6	11.1	6.8	5.6	5.4	4.3	3.2	1.5
TOT	492	1657	926	75	4	0	3154	100.0	9.0	594	72	607	162	633	140	748	198
PCT	19.6	52.5	29.4	2.4	.1	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	5.6	5.7	.8	.0	.0	383	12.1	7.9	11.6	26.4	12.4	19.8	17.5	13.6	5.3	9.1
NF	6.8	14.5	2.9	.1	.0	769	24.4	10.4	23.4	20.8	27.0	24.1	23.7	32.9	23.5	20.2
E	8.5	18.8	4.2	.2	.0	997	31.6	10.7	32.3	15.3	29.3	17.9	29.2	27.1	39.6	33.8
SE	4.3	6.0	.8	.1	.0	352	11.2	9.2	8.4	6.9	10.3	13.6	9.6	9.3	14.3	15.2
S	3.1	2.9	.4	.0	.0	201	6.4	7.8	6.9	8.3	5.9	3.7	4.4	5.0	7.5	10.6
SW	1.4	1.3	*	.0	.0	88	2.8	7.3	5.1	.0	2.0	2.5	.9	2.1	3.2	4.5
W	1.2	.8	*	.0	.0	65	2.1	6.5	2.2	4.2	1.5	2.5	2.4	2.9	1.5	3.0
NW	2.1	1.6	.2	.0	.0	123	3.9	6.9	2.2	6.9	4.1	10.3	6.6	2.9	1.7	2.0
VAR	.2	.0	.0	.0	.0	6	.2	3.2	.3	.0	.3	.0	.2	.0	.1	.0
CALM	5.4					170	5.4	.0	7.6	11.1	6.8	5.6	5.4	4.3	3.2	1.5
TOT	1219	1631	293	11	0	3154	100.0	9.0	594	72	607	162	633	140	748	198
PCT	38.6	51.7	9.3	.3	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1867-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	2.1	10.8	6.1	.3	.0	.0	.1	1.7	8.6	21.1	666
06&09	2.3	13.5	6.3	.4	.0	.0	.1	1.6	8.4	24.4	769
12&15	2.5	12.7	7.4	.6	*	.0	*	1.3	9.1	24.5	773
18&21	2.9	15.5	9.6	1.0	.1	.0	*	.9	9.7	30.0	946
TOT	318	1655	926	75	4	0	6	170	9.0		3154
PCT	10.1	52.5	29.4	2.4	.1	.0	.2	5.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION					MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBS	TOTAL OBS	
N	2.3	1.4	2.0	.5	172	3.8
NNE	1.8	1.9	2.0	.2	162	3.8
NE	4.5	4.4	3.5	.7	362	3.7
ENE	3.1	3.3	3.7	.9	306	4.1
E	6.4	7.5	6.4	2.0	616	4.0
ESE	2.4	3.0	2.9	1.1	260	4.2
SE	1.9	2.7	2.3	.8	211	4.2
SSE	.8	1.2	1.0	.4	92	4.3
S	1.3	1.1	1.4	.7	123	4.3
SSW	.7	.7	.5	.1	56	3.7
SW	.6	.3	.6	.1	43	4.0
WSW	.3	.4	.5	.1	35	4.3
W	.3	.4	.5	.3	39	4.9
WNW	.2	*	.3	.1	20	5.1
NW	.6	.3	.5	.1	43	3.7
NNW	1.0	.7	.8	.1	71	3.8
VAR	*	.1	.1	.0	5	4.2
CALM	2.5	1.4	1.2	.2	148	3.1
TOT	853	845	835	231	2764	4.0
PCT	30.9	30.6	30.2	8.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION															NH <5/8 ANY HGT	TOTAL OBS
000	150	300	600	1000	2000	3500	5000	6500	8000+							
149	299	599	999	1999	3499	4999	6499	7999	8000+							
.0	.0	*	*	.3	.1	.0	*	.0	.1	5.7	172					
.0	.0	.0	.1	.2	.2	.1	.0	.0	.0	5.3	162					
.0	.0	*	.2	.3	.4	*	.2	.1	*	11.8	362					
*	.0	*	.2	.6	.3	*	*	.0	.1	9.7	306					
.1	.0	.1	.4	.9	1.2	.3	*	.1	.1	19.1	616					
.1	.0	.1	.1	.4	.2	.1	*	*	.1	8.3	260					
.0	.0	.0	.2	.4	.3	.1	*	*	.0	6.6	211					
.0	.0	*	*	.1	.3	.0	.0	.0	.0	2.9	92					
.0	.0	.1	.1	.3	.2	*	.0	.0	.0	3.8	123					
.0	.0	.0	.1	.1	*	.1	.0	.1	.0	1.7	56					
.0	.0	.0	*	*	.0	.1	.0	.0	.0	1.4	43					
.0	.0	.0	.0	*	.1	.0	.0	.0	.0	1.2	35					
.0	.0	.0	*	.1	*	.0	.0	.0	.0	1.2	39					
.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.7	20					
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	1.4	43					
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	2.4	71					
.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	5					
.0	.0	.0	.1	.1	*	*	.0	*	*	4.9	148					
.6	0	10	46	108	95	24	13	14	11	2437	2764					
.2	.0	.4	1.7	3.9	3.4	.9	.5	.5	.4	88.2	100.0					



SEPTEMBER

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1867-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	.7	.9	.9	.9	.9	.9	.9
= OR >5000	1.1	1.4	1.4	1.4	1.4	1.4	1.4
= OR >3500	1.9	2.2	2.2	2.2	2.2	2.2	2.2
= OR >2000	4.6	5.7	5.7	5.7	5.8	5.8	5.8
= OR >1000	7.5	9.5	9.6	9.6	9.6	9.6	9.6
= OR >600	8.8	11.0	11.2	11.2	11.3	11.3	11.3
= OR >300	9.1	11.3	11.5	11.5	11.6	11.6	11.6
= OR >150	9.1	11.3	11.5	11.5	11.6	11.6	11.6
= OR > 0	9.1	11.4	11.7	11.7	11.8	11.8	11.8
TOTAL	255	319	326	326	328	330	330

TOTAL NUMBER OF OBS: 2791

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
8.1	23.1	33.0	15.9	8.1	4.7	3.9	1.4	1.6	.2	2930

SEPTEMBER

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1867-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	NO PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	3	.1
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	.1
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.0
2<5	PCP	.0	*	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.0	*	7	.3
	NO PCP	*	*	.0	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.2
	TOTAL	1	2	2	1	2	1	0	0	0	0	0	0	0	1	0	1	0	1	12	.4
5<10	PCP	.1	.0	.1	.1	.1	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	22	.8
	NO PCP	.8	.5	.9	.9	2.4	.8	.8	.3	.4	.1	.1	*	.1	.1	.3	.4	.0	.2	241	9.0
	TOTAL	24	14	26	26	66	25	24	7	12	6	4	1	3	2	7	10	0	6	263	9.9
10<20	PCP	*	.0	.1	.2	.3	.1	.1	*	.0	*	.0	.0	*	.0	.0	.0	.0	*	28	1.0
	NO PCP	5.2	5.1	11.9	9.9	19.5	8.4	6.7	3.0	3.9	1.7	1.4	1.3	1.2	.5	1.2	2.2	.2	5.1	2360	88.5
	TOTAL	139	137	319	269	528	229	184	80	105	47	37	34	34	14	32	59	5	136	2388	89.5
TOTAL	164	153	347	296	597	257	208	87	119	53	41	35	37	17	39	70	5	143	2668	100.0	
PCT	6.1	5.7	13.0	11.1	22.4	9.6	7.8	3.3	4.5	2.0	1.5	1.3	1.4	.6	1.5	2.6	.2	5.4	100.0		

SEPTEMBER

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1867-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*	
	11-21	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*	
	22&>	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*	
	TOTAL	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	3	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	TOTAL	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	*
	4-10	*	*	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	5	.2	
	11-21	.0	*	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	6	.2	
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	TOTAL	1	2	2	1	2	1	0	0	0	0	0	0	0	1	0	1	0	1	12	.4	
5<10	0-3	.2	.1	.1	*	.4	.0	*	*	.1	*	*	.1	.0	.0	.1	.1	.0	.0	44	1.6	
	4-10	.5	.2	.3	.3	.7	.4	.4	.2	.1	.1	.1	*	.1	.1	.3	.0	.0	.0	101	3.6	
	11-21	.3	.1	.5	.7	1.2	.5	.4	.0	.1	.1	*	.0	*	.0	*	.0	.0	.0	114	4.1	
	22&>	.0	*	.1	.0	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	.7	
	TOTAL	26	14	28	28	71	28	24	7	12	6	4	1	4	2	7	10	0	7	279	10.0	
10&>	0-3	1.0	.8	1.1	.4	1.4	.6	.8	.2	.6	.3	.1	.1	.2	.1	.2	.5	.1	5.0	376	13.5	
	4-10	3.0	2.5	4.6	4.1	6.7	2.9	2.9	1.7	1.9	1.1	.8	.8	.6	.5	.8	1.1	*	*	1003	35.9	
	11-21	1.3	2.0	6.2	4.9	10.8	4.7	3.0	1.2	1.5	.4	.5	.4	.4	.1	.3	.6	.0	.0	1069	38.3	
	22&>	*	.1	.1	.5	.5	.2	.1	.0	*	.0	.0	.0	.0	.0	*	*	.0	.0	47	1.7	
	TOTAL	148	150	335	280	541	233	188	86	113	52	39	35	35	18	37	61	5	139	2495	89.4	
TOTAL		175	166	365	309	615	264	212	93	127	58	43	36	39	21	44	72	5	147	2791	100.0	
PCT		6.3	5.9	13.1	11.1	22.0	9.5	7.6	3.3	4.6	2.1	1.5	1.3	1.4	.8	1.6	2.6	.2	5.3	100.0		

SEPTEMBER

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1867-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	*	.0	.2	.2	.9	.7	.2	.1	.2	*	72	19.5	642
06&09	.0	.0	.1	.5	.9	.4	.3	.1	.2	*	72	20.0	655
12&15	.1	.0	.1	.5	.9	.8	.1	.1	*	.2	82	22.9	751
18&21	*	.0	*	.4	1.1	1.5	.2	.1	.1	.1	105	26.2	868
TOT	6	0	10	46	108	99	24	13	14	11	331	2585	2916
PCT	.2	.0	.3	1.6	3.7	3.4	.8	.4	.5	.4	11.4	88.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	*	1.9	20.3	628
06&09	.1	.0	.0	.1	2.3	19.7	629
12&15	.0	.0	.0	.1	2.7	23.1	729
18&21	*	.1	.0	.2	3.0	26.4	841
TOT	3	2	0	12	281	2529	2827
PCT	.1	.1	.0	.4	9.9	89.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ &OR5+	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	2.5	19.7	628
06&09	.0	*	*	2.5	19.7	629
12&15	.0	.0	*	2.8	22.9	729
18&21	.0	*	.1	3.6	26.0	841
TOT	0	2	4	324	2497	2827
PCT	.0	.1	.1	11.5	88.3	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1867-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
100/104	.0	.0	.0	.0	*	.0	.0	.0	1	*
95/99	.0	.0	.0	.0	*	.0	.0	.0	1	*
90/94	.0	.0	.0	.2	1.6	.9	.3	.1	71	3.0
85/89	.0	.0	.1	.4	7.1	21.0	4.5	.8	807	33.9
80/84	.0	.0	*	.1	3.1	25.3	26.2	4.2	1403	58.9
75/79	.0	.0	.0	.0	.1	.4	2.4	1.1	95	4.0
70/74	.0	.0	.0	.0	.0	.1	.1	.0	4	.2
TOTAL	0	0	3	16	285	1135	797	146	2382	100.0
PCT	.0	.0	.1	.7	12.0	47.6	33.5	6.1		

TABLE 14

N	NE	E	SE	S	SW	W	NW	VAR	CALM	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP									
										0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	1.3	.3	.2	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.3	8.8	11.1	3.9	2.5	1.3	.6	.9	*	1.3	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
6.8	14.8	18.4	6.6	3.7	1.6	1.3	2.1	.2	3.4	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
1.2	.6	.5	.4	.2	.1	.2	.8	.0	.1	.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	.0
276	595	747	267	154	74	52	93	5	119	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
11.6	25.0	31.4	11.2	6.5	3.1	2.2	3.9	.2	5.0										

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR								
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	90	87	84	81	78	76	83.8	672
06&09	90	88	86	82	78	76	74	82.4	780
12&15	99	90	87	83	77	75	73	82.8	776
18&21	100	93	90	85	81	78	77	86.0	953
TOT	100	90	87	82	78	75	73	83.9	3181

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR								
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN
00&03	.0	.1	1.7	10.8	8.3	1.2	78	531	
06&09	.0	.1	.9	9.4	11.5	1.9	80	572	
12&15	.0	.1	1.7	10.7	9.8	2.1	79	587	
18&21	.0	.5	7.8	16.7	3.9	1.0	73	721	
TOT	0	19	291	1146	807	148	77	2411	

SEPTEMBER

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1867-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	93 96	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	*	*	2	.0	.1
9/10	.0	.0	*	.0	.1	.1	6	.0	.2
7/8	.0	.0	.0	.3	.6	.2	26	.0	1.0
6	.0	.0	*	.1	.5	*	18	.0	.7
5	.0	.0	.1	.7	1.7	.0	48	.0	1.9
4	.0	.0	.2	1.3	1.0	.0	62	.0	2.3
3	.0	.0	.2	2.4	.7	.0	86	.0	3.4
2	.0	.0	1.0	4.8	.2	.0	150	.0	6.0
1	.0	.0	2.0	6.4	.2	.0	219	.0	8.7
0	.0	.2	6.7	6.6	.1	.0	339	.0	13.5
-1	.0	.2	9.9	4.6	.1	.0	372	.0	14.8
-2	.0	.3	12.9	1.9	.0	.0	378	.0	15.0
-3	.0	.5	9.4	1.5	.0	.0	289	.0	11.5
-4	.0	1.2	6.9	.3	.0	.0	211	.0	8.4
-5	*	1.0	3.9	.3	.0	.0	132	.0	5.3
-6	.0	1.3	1.2	.1	.0	.0	67	.0	2.7
-7/-8	*	2.3	.8	.0	.0	.0	77	.0	3.1
-9/-10	.2	.5	*	.0	.0	.0	19	.0	.8
-11/-13	.3	.1	.1	.0	.0	.0	12	.0	.3
TOTAL	15	187	1393	791	118	9	2513	0	2513
PCT	.6	7.4	55.4	31.5	4.7	.4	100.0		100.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

SEPTEMBER

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	1.0	5.6	.3	.0	.0	.0	42	1.0	1.5	.3	.0	.0	.0	17
1-2	.2	3.6	1.2	.0	.0	.0	30	.3	4.8	3.3	.7	.0	.0	55
3-4	.2	.3	.3	.0	.0	.0	5	.3	2.8	2.8	.8	.0	.0	41
5-6	.0	.0	.3	.0	.0	.0	2	.0	.2	2.6	.0	.0	.0	17
7	.0	.0	.2	.0	.0	.0	1	.0	.2	.0	.2	.0	.0	2
8-9	.0	.0	.0	.0	.0	.0	0	.0	.3	.0	.0	.0	.0	2
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.0	.0	.0	1
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	8	58	14	0	0	0	80	10	59	56	10	0	0	135
PCT	1.3	9.6	2.3	.0	.0	.0	13.2	1.7	9.8	9.3	1.7	.0	.0	22.3

HGT	E							SE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	1.2	2.6	.5	.0	.0	.0	26	.3	2.8	.2	.0	.0	.0	20
1-2	.8	8.4	3.5	.2	.0	.0	78	.0	3.8	.7	.0	.0	.0	27
3-4	.2	5.5	5.3	.7	.0	.0	70	.0	1.0	1.3	.2	.0	.0	15
5-6	.0	.8	2.6	.3	.0	.0	23	.0	.0	.7	.0	.0	.0	4
7	.0	.0	.5	.0	.0	.0	3	.0	.0	.0	.0	.0	.0	0
8-9	.0	.0	.2	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	13	105	76	7	0	0	201	2	46	17	1	0	0	66
PCT	2.1	17.4	12.6	1.2	.0	.0	33.2	.3	7.6	2.8	.2	.0	.0	10.9

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

SEPTEMBER

AREA 03 GUANTANAMO  
15-20N 74-76W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.7	2.1	.2	.0	.0	.0	18	.5	1.3	.0	.0	.0	.0	11	163	
1-2	.7	2.3	.3	.0	.0	.0	20	.0	1.3	.7	.0	.0	.0	12		
3-4	.0	.3	.2	.0	.0	.0	3	.0	.3	.0	.0	.0	.0	2		
5-6	.0	.3	.2	.0	.0	.0	3	.0	.0	.2	.0	.0	.0	1		
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
TOTAL	.8	.31	.5	.0	.0	.0	44	.3	.18	.5	.0	.0	.0	26		
PCT	1.3	5.1	.8	.0	.0	.0	7.3	.5	3.0	.8	.0	.0	.0	4.3		

HGT	W							NW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.2	1.2	.0	.0	.0	.0	8	.8	2.6	.0	.0	.0	.0	21	100.0	
1-2	.0	.8	.0	.0	.0	.0	5	.0	1.3	1.0	.2	.0	.0	15		
3-4	.0	.3	.0	.0	.0	.0	2	.0	.0	.3	.0	.0	.0	2		
5-6	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
TOTAL	.1	.14	.0	.0	.0	.0	15	.5	.24	.8	.1	.0	.0	38		
PCT	.2	2.3	.0	.0	.0	.0	2.5	.8	4.0	1.3	.2	.0	.0	6.3		



SEPTEMBER

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)							
HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL DBS
<1	9.6	19.0	1.4	.0	.0	.0	191
1-2	2.4	25.1	10.0	.9	.0	.0	245
3-4	.6	10.0	9.7	1.6	.0	.0	140
5-6	.2	1.3	6.3	.3	.0	.0	51
7	.0	.2	.6	.2	.0	.0	6
8-9	.0	.3	.2	.0	.0	.0	3
10-11	.0	.0	.2	.0	.0	.0	1
12	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	81	356	181	19	0	0	637
PCT	12.7	55.9	28.4	3.0	.0	.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.9	32.9	18.8	3.0	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	389	2
6-7	.0	1.7	5.3	4.7	.9	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	4
8-9	.0	1.1	.5	1.7	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	4
10-11	.0	.2	.8	.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
12-13	.0	.2	.3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
>13	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	2
INDET	20.3	1.4	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	149	0
TOTAL	154	249	172	65	16	7	1	1	0	0	0	0	0	0	0	0	0	0	0	665	2
PCT	23.2	37.4	25.9	9.8	2.4	1.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1883-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT FREQ PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW		
N	.1	.1	.0	.0	.0	.0	.0	5	.4	.0	.0	.0	12	155	.2
NNE	.1	.1	.0	.0	.0	.0	.0	4	.5	.0	.1	.0	16	193	.1
NE	.3	.3	.0	.0	.0	.0	.0	17	1.4	.0	.1	*	44	438	.6
ENE	.1	.2	*	.0	.0	.0	.0	9	.8	.0	.0	.0	23	354	.3
E	.2	.2	.1	.0	.0	.0	*	15	.9	.0	.1	.0	29	530	.5
ESE	.3	.3	.1	.0	.0	.0	.0	19	.6	.0	.1	.0	20	265	.6
SE	.5	.1	.1	.0	.0	.0	.0	21	.4	.0	*	.0	13	235	.7
SSE	.3	.2	*	.0	.0	.0	.0	17	.3	.0	.0	.0	9	134	.6
S	.2	.2	*	.0	.0	.0	.0	11	.5	.0	.0	.0	14	154	.4
SSW	*	.1	*	.0	.0	.0	.0	4	.1	.0	.0	.0	2	53	.1
SW	*	.1	.0	.0	.0	.0	.0	4	.1	.0	.0	.0	4	58	.1
WSW	.0	*	.0	.0	.0	.0	.0	1	*	.0	.0	.0	1	27	*
W	*	.1	*	.0	.0	.0	.0	5	.1	.0	.0	.0	3	38	.2
WNW	.0	*	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	0	22	*
NW	*	.1	.0	.0	.0	.0	.0	3	.2	.0	.0	.0	5	49	.1
NNW	*	.1	.0	.0	.0	.0	.0	4	.1	.0	*	.0	4	67	.1
VAR	.1	*	.0	.0	.0	.0	.0	3	*	.0	.0	.0	1	9	.1
CALM	.1	*	.0	.0	.0	.0	.0	5	.3	.0	.1	.0	13	171	.2
TOT	.69	.64	.14	.0	.0	.0	.0	148	1.98	.0	.14	.1	213	2952	
PCT	2.3	2.2	.5	.0	.0	.0	*	5.0	6.7	.0	.5	*	7.2	100.0	5.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT FREQ PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW		
00003	.5	.5	.1	.0	.0	.0	.0	35	3.0	.0	.2	*	97	655	1.2
06009	.6	.6	.1	.0	.0	.0	.0	39	3.4	.0	.1	.0	104	710	1.3
12015	.6	.6	.1	.0	.0	.0	.0	39	.1	.0	.1	.0	6	749	1.3
18021	.6	.5	.1	.0	.0	.0	*	37	.1	.0	.1	.0	6	861	1.2
TOT	.69	.65	.15	.0	.0	.0	.0	150	1.98	.0	.14	.1	213	2975	
PCT	2.3	2.2	.5	.0	.0	.0	*	5.0	6.7	.0	.5	*	7.2	100.0	5.0

OCTOBER

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1883-1967

TABLE 3

AREA 003 GUANTANAMO  
18-20N 74-76W

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.2	3.3	.9	*	.0	.0	168	5.3	7.3	4.8	10.8	4.1	6.4	10.3	2.8	2.8	3.0
NNE	.7	3.6	2.0	.1	.0	.0	203	6.4	9.1	6.1	9.5	6.7	4.7	8.7	6.9	4.7	5.5
NE	1.5	6.8	5.9	.8	.0	.0	476	15.1	11.0	15.7	28.4	16.1	19.9	15.7	16.6	11.5	11.1
ENE	.8	6.1	4.8	.6	.0	.0	389	12.3	10.9	11.4	8.1	11.4	20.5	10.8	22.1	11.4	13.6
E	1.5	9.8	6.2	.6	*	.0	573	18.1	10.1	18.3	6.8	22.4	11.7	17.6	11.7	20.7	11.1
ESE	.7	4.6	3.3	.3	.0	.0	281	8.9	10.2	10.8	5.4	7.5	5.8	6.8	9.0	10.4	12.6
SE	.8	3.4	3.2	.2	.1	.0	245	7.7	10.8	7.3	5.4	6.7	2.9	6.0	9.0	11.6	7.5
SSE	.3	2.1	1.8	.3	.1	.0	146	4.6	12.4	3.6	4.1	4.5	4.7	4.6	5.5	5.3	5.0
S	.3	3.1	1.3	.3	.0	.0	162	5.1	9.6	5.6	5.4	3.9	2.9	3.6	4.8	6.0	11.1
SSW	.1	1.0	.5	*	.0	.0	54	1.7	9.4	.9	.0	1.1	1.8	1.3	2.8	3.0	2.5
SW	.3	1.0	.6	.1	.0	.0	61	1.9	9.4	2.9	.0	2.1	1.2	.9	.7	2.3	2.5
WSW	.2	.5	.1	.1	.0	.0	28	.9	8.5	1.0	.0	.2	1.8	.8	.0	1.1	2.5
W	.3	.7	.2	*	.0	.0	40	1.3	7.0	1.4	6.8	1.1	1.2	.8	.7	1.1	2.0
WNW	.2	.5	.1	*	.0	.0	24	.8	6.5	.7	.0	.5	.0	1.6	.0	.7	1.0
NW	.7	.9	.2	.0	.0	.0	55	1.7	5.6	1.0	2.7	2.3	3.5	2.1	4.1	.1	3.5
NNW	.6	1.1	.4	.0	.0	.0	68	2.2	6.4	1.4	4.1	2.6	4.7	3.5	.7	1.1	1.0
VAR	.2	.1	.0	.0	.0	.0	8	.3	2.8	.3	.0	.3	.0	.0	.7	.3	.5
CALM	5.7						181	5.7	.0	6.8	2.7	6.7	6.4	5.1	2.1	6.0	4.0
TOT	510	1541	995	110	6	0	3162	100.0	9.4	586	74	616	171	632	145	739	199
PCT	16.1	48.7	31.5	3.5	.2	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40					00	03	06	09	12	15	18	21
N	4.9	6.3	.5	.0	.0	371	11.7	8.3	10.9	20.3	10.7	11.1	19.0	9.7	7.6	8.5
NE	7.3	15.7	4.3	.2	.0	865	27.4	10.9	27.1	36.5	27.4	40.4	26.4	38.6	22.9	24.6
E	8.6	15.1	3.1	.1	*	854	27.0	10.1	29.0	12.2	29.9	17.5	24.4	20.7	31.1	23.6
ESE	3.0	7.4	1.5	.3	.1	391	12.4	11.4	10.9	9.5	11.2	7.6	10.6	14.5	16.9	12.6
S	2.8	3.2	.7	.1	.0	216	6.8	9.6	6.5	5.4	5.0	4.7	4.9	7.6	8.9	13.6
SSW	1.0	1.5	.3	*	.0	89	2.8	9.1	3.9	.0	2.3	2.9	1.7	.7	3.4	5.0
SW	1.3	.6	.1	.0	.0	64	2.0	6.8	2.0	6.8	1.6	1.2	2.4	.7	1.8	3.0
W	2.6	1.2	.1	.0	.0	123	3.9	6.0	2.4	6.8	4.9	8.2	5.5	4.8	1.2	4.5
NW	.3	.0	.0	.0	.0	8	.3	2.8	.3	.0	.3	.0	.0	.7	.3	.5
VAR	.3	.0	.0	.0	.0	8	.3	2.8	.3	.0	.3	.0	.0	.7	.3	.5
CALM	5.7					181	5.7	.0	6.8	2.7	6.7	6.4	5.1	2.1	6.0	4.0
TOT	1190	1608	339	22	3	3162	100.0	9.4	586	74	616	171	632	145	739	199
PCT	37.6	50.9	10.7	.7	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1883-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00003	2.2	9.6	6.8	.9	.0	.0	.1	1.3	9.5	20.9	660
06009	2.9	12.6	7.0	.6	.0	.0	.1	1.6	8.8	24.9	787
12015	2.7	12.2	7.7	.7	.1	.0	*	1.1	9.4	24.6	777
18021	2.4	14.3	9.9	1.2	.1	.0	.1	1.6	9.9	29.7	938
TOT	323	1539	995	110	6	0	8	181	9.4		3162
PCT	10.2	48.7	31.5	3.5	.2	.0	.3	5.7		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD		
N	2.1	1.3	1.5	.7	152	3.9
NNE	2.3	1.7	1.9	.4	176	3.7
NE	5.7	4.7	3.3	1.2	411	3.6
ENE	4.5	3.0	3.4	1.2	331	3.9
E	5.9	4.8	5.1	2.1	493	4.1
ESE	2.2	2.4	2.9	1.5	248	4.5
SE	2.2	1.9	2.3	1.6	220	4.6
SSE	.7	.8	1.9	1.2	128	5.4
S	1.1	1.2	2.0	.9	146	4.8
SSW	.6	.3	.5	.1	45	3.9
SW	.4	.6	.9	.1	54	4.6
WSW	.1	.1	.5	.2	26	5.5
W	.6	.1	.2	.4	35	4.2
WNW	.4	.1	.2	.1	21	3.7
NW	.8	.3	.5	.1	46	3.7
NNW	.9	.4	.7	.4	66	4.0
VAR	.0	*	.1	.1	5	6.4
CALM	2.5	1.5	1.1	.4	148	3.3
TOT	908	694	797	352	2751	4.1
PCT	33.0	25.2	29.0	12.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION											NH <5/8 ANY HGT	TOTAL OBS
000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+			
.1	.0	*	.1	.3	.2	*	*	.0	*	4.8	152	
.0	.0	.0	.3	.2	.3	.0	.0	.0	.0	5.6	176	
.0	.0	.0	.2	.7	.7	.3	.0	.0	*	13.0	411	
.0	.0	.1	*	.6	.5	*	.1	.0	.0	10.6	331	
*	.0	.1	.7	1.5	.7	.1	.0	.1	*	14.6	493	
.2	.0	.1	.3	.6	.4	.0	.0	*	.1	7.3	248	
.0	.0	.1	.7	.5	.2	.1	.1	*	.0	6.3	220	
*	.0	.1	.3	.5	.4	.1	.0	*	.0	3.2	128	
.1	.0	.1	.1	.3	.5	.1	.0	*	.0	4.1	146	
.0	.0	.0	.0	.1	.0	*	.0	.0	.0	1.5	45	
.0	.0	.0	*	.3	.1	.0	.0	.0	.0	1.5	54	
.0	*	.0	.0	.1	.1	.0	.0	.0	.0	.7	26	
.0	.0	*	.1	.1	.0	.0	.0	.0	*	1.1	35	
.0	.0	.0	.0	*	*	.0	.0	.0	.0	.7	21	
.0	.0	.0	.0	.1	.0	.0	.0	.0	*	1.5	46	
*	.0	*	*	.1	.1	.0	.0	.0	.0	2.0	66	
.0	.0	.0	*	.1	*	.0	.0	.0	.0	*	5	
.0	.0	.0	.1	.1	.2	.0	.0	.0	*	4.8	148	
15	1	20	82	167	124	21	7	8	10	2296	2751	
.5	*	.7	3.0	6.1	4.5	.8	.3	.3	.4	83.5	100.0	

OCTOBER

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1883-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	.4	.6	.7	.7	.7	.7	.7
= OR >5000	.6	.9	.9	.9	.9	.9	.9
= OR >3500	1.2	1.6	1.7	1.7	1.7	1.7	1.7
= OR >2000	4.5	6.1	6.2	6.2	6.2	6.2	6.2
= OR >1000	8.9	11.9	12.2	12.3	12.3	12.3	12.3
= OR >600	10.8	14.4	15.1	15.2	15.3	15.3	15.3
= OR >300	11.2	15.1	15.8	16.0	16.0	16.0	16.0
= OR >150	11.2	15.1	15.8	16.0	16.0	16.0	16.0
= OR > 0	11.3	15.4	16.3	16.5	16.6	16.6	16.6
TOTAL	309	423	447	452	455	455	455

TOTAL NUMBER OF OBS: 2743

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.2	18.6	34.3	14.8	8.6	5.2	5.0	2.1	4.0	.4	2923

OCTOBER

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1883-1967

TABLE 8

AREA 003 GUANTANAMO  
18-20N 74-76W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2<1	PCP	.0	.0	*	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.1
	NO PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	0	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	4	.1
1<2	PCP	.0	.0	.1	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	5	.2
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	5	.2
2<5	PCP	.1	.0	.0	*	.1	.1	.2	.1	.1	.0	.0	.0	*	.0	.0	.0	.0	*	22	.8
	NO PCP	.0	.0	.0	.0	.1	.0	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.2
	TOTAL	2	0	0	1	6	2	7	4	4	0	0	0	1	0	0	0	0	1	28	1.0
5<10	PCP	.1	.1	.3	.0	.1	.3	.1	.3	.2	*	.1	*	.1	.0	.1	.1	*	*	56	2.1
	NO PCP	.7	.9	2.3	1.9	1.7	1.0	.9	.9	1.0	.4	.4	.3	.1	.3	.3	.5	.0	.4	376	14.0
	TOTAL	20	26	71	50	50	35	28	32	34	12	12	8	6	7	10	17	1	13	432	16.0
10<>	PCP	.0	.0	.1	.1	.2	.2	.2	.1	*	*	*	.0	*	.0	.0	*	*	*	32	1.2
	NO PCP	4.6	5.5	12.1	10.1	15.4	7.3	6.4	3.2	3.9	1.2	1.5	.7	1.0	.5	1.3	1.8	.1	4.9	2193	81.4
	TOTAL	125	147	329	274	421	204	178	89	105	32	41	18	27	14	36	49	4	132	2225	82.6
TOTAL		147	174	403	325	478	242	214	125	144	44	53	26	34	21	46	66	5	147	2694	100.0
PCT		5.5	6.5	15.0	12.1	17.7	9.0	7.9	4.6	5.3	1.6	2.0	1.0	1.3	.8	1.7	2.4	.2	5.5	100.0	

OCTOBER

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1883-1967

TABLE 9

AREA 003 GUANTANAMO  
18-20N 74-76W

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	11-21	.0	*	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.1	
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*	
	TOTAL	0	1	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	4	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	*
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	11-21	.0	.0	.1	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.1	
	22&>	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*	
	TOTAL	0	0	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	5	.2
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	*
	4-10	*	.0	.0	.0	*	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.1	
	11-21	*	.0	.0	.1	.2	.1	.2	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	18	.7	
	22&>	.0	.0	.0	.0	*	.0	*	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.3	
	TOTAL	2	0	0	2	7	2	7	4	4	0	0	0	1	0	0	0	0	0	1	30	1.1
5<10	0-3	.1	.1	.1	.0	*	.1	*	*	*	.0	.0	.1	.0	*	.1	.2	.0	.5	45	1.6	
	4-10	.3	.3	.7	.3	.4	.4	.3	.2	.4	.2	.2	.1	.1	.2	.2	.2	*	127	4.6		
	11-21	.4	.5	1.1	1.3	1.3	.8	.6	.7	.6	.2	.2	.1	.1	.0	.0	.2	.0	219	8.0		
	22&>	.0	*	.6	.3	.2	.0	.1	.3	.2	*	*	.0	*	.0	.0	.0	.0	49	1.8		
	TOTAL	22	26	71	51	52	37	29	32	34	12	12	8	6	7	10	17	1	13	440	16.0	
10&>	0-3	1.1	.7	1.3	.7	1.3	.5	.8	.3	.3	.1	.3	.1	.4	.1	.5	.5	.1	4.8	384	14.0	
	4-10	2.2	2.8	4.0	3.6	6.7	3.2	2.2	1.2	2.3	.7	.5	.3	.4	.3	.5	.9	.0	870	31.7		
	11-21	1.3	1.9	6.6	5.5	7.3	3.5	3.5	1.9	1.2	.4	.8	.2	.2	*	.3	.4	.0	958	34.9		
	22&>	*	.1	.3	.3	.4	.3	.1	.1	.1	.0	*	.1	.0	*	.0	.0	.0	52	1.9		
	TOTAL	126	148	336	279	430	207	182	92	107	33	42	18	28	14	36	49	4	133	2264	82.5	
TOTAL																						
PCT		5.5	6.4	14.9	12.1	17.9	9.0	8.0	4.7	5.3	1.6	2.0	.9	1.3	.8	1.7	2.4	.2	5.4	100.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1883-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.1	*	.2	.6	1.4	1.2	.3	.1	*	.1	121	17.8	636
06009	.2	.0	.3	.9	1.3	.6	.1	.0	.1	*	102	19.2	657
12015	.1	.0	.1	.6	1.5	1.2	.1	.1	*	.1	109	22.2	753
18021	.1	.0	.1	.8	1.6	1.2	.2	.1	.1	.1	127	25.0	851
TOT	15	1	21	83	169	124	21	7	8	10	459	2438	2897
PCT	.5	*	.7	2.9	5.8	4.3	.7	.2	.3	.3	15.8	84.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	*	.1	.3	3.7	17.9	608
06009	.0	*	.0	.2	4.1	18.2	622
12015	.0	*	*	.3	3.9	21.9	722
18021	.0	*	.1	.4	4.3	24.5	808
TOT	0	4	6	30	442	2278	2760
PCT	.0	.1	.2	1.1	16.0	82.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ 60R5+	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	*	.3	4.1	17.6	608
06009	.0	.0	.1	3.6	18.8	622
12015	.0	.0	.2	3.8	22.2	722
18021	.0	*	.3	4.3	24.7	808
TOT	0	2	19	438	2301	2760
PCT	.0	.1	.7	15.9	83.4	100.0



OCTOBER

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1883-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
95/99	.0	.0	*	.0	.1	*	*	.0	6	.3
90/94	*	.0	.0	.2	.6	.4	.1	.1	31	1.4
85/89	.0	.0	.0	.3	5.0	11.1	4.6	.8	496	21.7
80/84	.0	.0	.0	*	5.6	26.8	29.2	5.1	1521	66.6
75/79	.0	.0	.0	.0	*	1.1	4.5	3.6	212	9.3
70/74	.0	.0	.0	.0	.0	.0	.2	.6	17	.7
TOTAL	1	0	1	11	259	900	880	231	2283	100.0
PCT	*	.0	*	.5	11.3	39.4	38.5	10.1		

TABLE 14

	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW				
95/99	*	.1	.0	.1	.0	.0	*	.0	.0	.0	.0	.0
90/94	.1	.4	.4	.2	*	*	*	*	.0	.0	.1	.1
85/89	1.7	5.6	7.2	3.0	1.8	.1	.3	.4	*	1.4	3.9	3.9
80/84	7.4	19.0	18.7	8.4	4.2	1.9	1.1	1.7	.3	3.9	7.7	7.7
75/79	2.0	1.6	1.5	1.1	.6	.3	.4	1.2	*	.7	.7	.7
70/74	.1	.1	.2	.1	.0	.0	.1	.1	.0	*	*	*
TOTAL	259	610	642	294	151	54	46	79	8	140	140	140
PCT	11.3	26.7	28.1	12.9	6.6	2.4	2.0	3.5	.4	6.1	6.1	6.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
00&03	91	89	86	83	79	75	69	82.5	669
06&09	90	87	85	82	77	74	73	81.4	788
12&15	90	89	87	83	77	74	71	81.7	768
18&21	98	93	90	85	80	76	74	85.0	937
TOT	98	90	87	82	76	73	69	82.8	3162

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00&03	.0	*	1.7	9.6	8.8	2.2	79	514
06&09	.0	.0	1.1	7.8	12.1	3.1	82	552
12&15	.0	.0	2.1	8.1	11.1	3.1	80	563
18&21	*	.5	6.4	13.9	6.5	1.7	75	668
TOT	1	12	261	906	885	232	79	2297

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1883-1967

OCTOBER

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	93 96	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	*	1	.0	*
11/13	.0	.0	.0	*	.0	*	.2	6	.0	.2
9/10	.0	.0	.0	.1	*	.2	.2	12	.0	.5
7/8	.0	.0	.0	*	.4	.4	*	23	.0	.9
6	.0	.0	.0	.0	.3	.6	.0	22	.0	.8
5	.0	.0	.0	.0	.6	.4	.0	25	.0	.9
4	.0	.0	.0	.2	1.2	.3	.0	44	.0	1.7
3	.0	.0	.0	.3	1.6	.4	.0	61	.0	2.3
2	.0	*	.0	1.0	3.0	.2	.0	114	.0	4.3
1	.0	.0	.1	2.0	5.0	.1	.0	190	.0	7.2
0	.0	.0	.2	6.5	4.2	.0	.0	288	.0	10.9
-1	.0	.1	.2	10.1	2.7	*	.0	349	.0	13.2
-2	.0	.0	.7	12.2	1.0	.0	.0	368	.0	14.0
-3	.0	.0	1.3	11.3	.9	.0	.0	359	.0	13.6
-4	.0	.0	2.5	7.9	.3	*	.0	281	.0	10.7
-5	.0	*	2.4	4.1	.1	.0	.0	177	.0	6.7
-6	.0	.1	3.1	.9	.0	.0	.0	110	.0	4.2
-7/-8	.0	.7	2.9	1.0	*	.0	.0	123	.0	4.7
-9/-10	.0	1.1	1.1	*	.0	.0	.0	59	.0	2.2
-11/-13	.0	.6	.2	*	.0	.0	.0	24	.0	.9
TOTAL	0	70	391	1529	564	71	11	2636	0	2636
PCT	.0	2.7	14.8	58.0	21.4	2.7	.4	100.0		100.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

OCTOBER

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	1.1	3.0	.2	.2	.0	.0	24	1.1	3.8	.4	.2	.0	.0	29
1-2	.4	3.2	1.5	.0	.0	.0	27	1.1	8.2	3.2	.2	.0	.0	67
3-4	.0	.6	.8	.0	.0	.0	7	.0	3.4	3.4	.2	.0	.0	37
5-6	.0	.2	.6	.0	.0	.0	4	.0	.2	1.3	.0	.0	.0	8
7	.0	.0	.0	.0	.0	.0	0	.0	.2	.6	.2	.0	.0	5
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	8	37	16	1	0	0	62	12	83	47	4	0	0	146
PCT	1.5	7.0	3.0	.2	.0	.0	11.8	2.3	15.7	8.9	.8	.0	.0	27.7

HGT	E							SE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	1.1	4.4	.9	.0	.0	.0	34	.9	1.3	.4	.0	.0	.0	14
1-2	.9	9.9	2.7	.0	.0	.0	71	.4	4.0	.9	.4	.0	.0	30
3-4	.0	2.8	3.0	.2	.0	.0	32	.0	1.5	2.1	.4	.0	.0	21
5-6	.0	.6	1.9	.2	.0	.0	14	.0	.2	.9	.0	.4	.0	8
7	.0	.4	1.3	.6	.0	.0	12	.0	.0	.4	.8	.4	.0	8
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.4	.0	.0	2	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.2	.0	.0	1
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.2	.0	.0	1
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	11	95	52	7	0	0	165	7	37	25	10	4	0	83
PCT	2.1	18.0	9.9	1.3	.0	.0	31.3	1.3	7.0	4.7	1.9	.8	.0	15.7

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

OCTOBER  
TABLE 18

AREA 003  
18-20N  
GUANTANAMO  
74-76W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+			
<1	.2	1.9	.2	.0	.0	.0	12	.4	.8	.0	.0	.0	.0	.0	6	
1-2	.2	2.3	.4	.0	.0	.0	15	.0	.2	.0	.0	.0	.0	.0	1	
3-4	.0	.2	.8	.6	.0	.0	8	.0	.0	.0	.0	.0	.0	.0	0	
5-6	.0	.2	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	.0	0	
7	.0	.0	.2	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	.0	0	
8-9	.0	.0	.0	.2	.0	.0	1	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	
TOTAL	.2	2.4	.8	.4	.0	.0	38	.2	.9	.0	.0	.0	.0	.0	7	
PCT	.4	4.6	1.5	.8	.0	.0	7.2	.4	.9	.0	.0	.0	.0	.0	1.3	

HGT	M							NW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+			
<1	.4	.8	.0	.0	.0	.0	6	.6	1.3	.0	.0	.0	.0	.0	10	135
1-2	.0	.6	.0	.0	.0	.0	3	.0	.2	.6	.0	.0	.0	.0	4	218
3-4	.0	.0	.0	.0	.0	.0	0	.0	.0	.4	.0	.0	.0	.0	2	107
5-6	.0	.0	.2	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	.0	0	36
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	26
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	1
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	2
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	1
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	1
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	.2	.7	.1	.0	.0	.0	10	.3	.8	.5	.0	.0	.0	.0	16	527
PCT	.4	1.3	.2	.0	.0	.0	1.9	.6	1.5	.9	.0	.0	.0	.0	3.0	100.0

OCTOBER

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

TABLE 18 (CONT)

AREA 003 GUANTANAMO  
18-20N 74-76W

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	11.8	16.0	1.9	.4	.0	.0	171
1-2	3.4	26.5	8.6	.5	.0	.0	221
3-4	.0	8.1	9.7	1.2	.0	.0	108
5-6	.0	1.2	4.6	.2	.4	.0	36
7	.0	.5	2.3	1.4	.4	.0	26
8-9	.0	.0	.0	.2	.0	.0	1
10-11	.0	.0	.0	.4	.0	.0	2
12	.0	.0	.0	.2	.0	.0	1
13-16	.0	.0	.0	.2	.0	.0	1
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	86	297	154	26	4	0	567
PCT	15.2	52.4	27.2	4.6	.7	.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	6.3	29.0	16.4	4.6	.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	336	2
6-7	.2	1.5	4.6	2.0	1.2	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	4
8-9	.2	1.2	.7	.3	.7	.9	1.9	.2	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	7
10-11	.0	.3	.5	.3	.0	.3	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	6
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	21.0	2.2	.7	.3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	143	0
TOTAL	162	201	134	45	15	9	14	1	3	2	1	0	0	0	0	0	0	0	0	0	587	2
PCT	27.6	34.2	22.8	7.7	2.6	1.5	2.4	.2	.5	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1885-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OBS TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
N	.1	.1	.0	.0	.0	.0	.0	4	.2	.0	.0	.0	.0	5	158	.2
NNE	.2	.1	.2	.0	.0	.0	.0	13	.2	.0	.0	.0	.0	4	294	.5
NE	.1	.3	.1	.0	.0	.0	.0	14	.6	.0	.0	.0	.0	15	676	.6
ENE	.1	*	.0	.0	.0	.0	.0	9	.5	.0	.0	.0	.0	12	427	.1
E	.1	.0	*	.0	.0	.0	.0	4	.4	.0	.0	.0	.0	10	375	.2
ESE	.1	.0	.0	.0	.0	.0	.0	3	.1	.0	.0	.0	.0	3	94	.1
SE	.1	*	.1	.0	.0	.0	.0	6	.0	.0	*	.0	.0	1	78	.2
SSE	*	*	.0	.0	.0	.0	.0	2	.1	.0	.0	.0	.0	3	37	.1
S	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.0	.0	.0	2	39	.0
SSW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0	16	.0
SW	.0	.0	.0	.0	.0	.0	.0	0	*	.0	*	.0	.0	2	33	.0
WSW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0	20	.0
W	.0	.0	.0	.0	.0	.0	.0	0	*	.0	.0	.0	.0	1	18	.0
WNW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0	17	.0
NW	.1	.1	.0	.0	.0	.0	.0	4	*	.0	.0	.0	.0	1	46	.2
NNW	*	*	.0	.0	.0	.0	.0	2	*	.0	.0	.0	.0	1	55	.1
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0	1	.0
CALM	*	*	*	.0	.0	.0	.0	3	.2	.0	.0	.0	.0	4	105	.1
TOT	27	20	11	0	0	0	0	58	62	0	2	0	64	2489		
PCT	1.1	.8	.4	.0	.0	.0	.0	2.3	2.5	.0	.1	.0	2.6	100.0	2.3	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OBS TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
00003	.4	.1	.1	.0	.0	.0	.0	14	1.0	.0	.0	.0	.0	25	571	.6
06009	.5	.3	.2	.0	.0	.0	.0	24	1.5	.0	*	.0	.0	39	563	1.0
12015	.2	.3	.2	.0	.0	.0	.0	15	.0	.0	.0	.0	.0	0	639	.6
18021	.1	.2	.0	.0	.0	.0	.0	6	.0	.0	*	.0	.0	1	732	.2
TOT	28	20	11	0	0	0	0	59	63	0	2	0	65	2505		
PCT	1.1	.8	.4	.0	.0	.0	.0	2.4	2.5	.0	.1	.0	2.6	100.0	2.4	

NOVEMBER

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1885-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.6	3.3	2.0	.4	.0	.0	176	6.3	10.4	4.7	6.3	7.1	8.4	9.9	8.4	3.3	6.0
NNE	.5	4.5	6.4	1.1	.1	.0	348	12.5	13.4	14.0	16.7	10.3	19.5	14.6	10.3	9.4	13.8
NE	.4	8.9	14.6	3.0	.2	.0	751	27.0	14.2	28.2	35.4	27.9	31.2	24.8	25.2	26.1	26.9
ENE	.4	5.7	9.4	1.4	*	.0	470	16.9	13.3	14.7	20.8	18.3	15.6	15.3	25.2	18.8	12.6
E	.6	8.0	5.7	.4	.0	.0	405	14.6	10.9	14.5	4.2	15.3	9.1	10.9	13.1	18.5	18.6
ESE	.3	2.4	1.2	*	.0	.0	109	3.9	9.4	4.4	2.1	4.2	.6	4.2	1.9	4.1	4.8
SE	.3	2.2	.8	*	.0	.0	91	3.3	8.8	3.3	.0	2.7	2.6	3.2	1.9	4.7	2.4
SSE	.2	.8	.5	*	.0	.0	41	1.5	9.0	1.6	4.2	1.5	.0	1.4	3.7	1.4	.6
S	.3	.9	.3	*	.0	.0	45	1.6	7.9	1.5	.0	1.7	1.3	1.2	1.9	1.8	3.0
SSW	*	.5	.1	.0	.0	.0	17	.6	7.9	.5	2.1	.6	.6	.0	.0	1.2	.6
SW	.3	.6	.4	.0	.0	.0	38	1.4	8.4	1.3	4.2	.8	1.3	1.6	.0	1.2	3.6
WSW	.1	.6	.1	.0	.0	.0	22	.8	7.0	1.3	.0	.8	1.3	.0	.9	.9	1.2
W	.3	.5	*	.0	.0	.0	23	.8	5.7	.4	2.1	.4	1.3	.5	.9	1.5	1.2
WNW	.1	.5	.1	.0	.0	.0	19	.7	7.4	.5	.0	.2	.6	1.2	1.9	.8	.0
NW	.1	1.1	.7	.0	.0	.0	52	1.9	9.4	1.3	.0	2.1	3.9	2.5	2.8	1.4	1.2
NNW	.3	.9	.8	*	.0	.0	56	2.0	9.7	1.3	.0	1.7	.6	4.8	.9	1.7	.0
VAR	.0	*	.0	.0	.0	.0	1	*	4.0	.2	.0	.0	.0	.0	.0	.0	.0
CALM	4.1						113	4.1	.0	6.4	2.1	4.6	1.9	3.9	.9	3.2	3.6
TOT	244	1151	1196	177	9	0	2777	100.0	11.6	550	48	524	154	568	107	659	167
PCT	8.8	41.4	43.1	6.4	.3	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40					00	03	06	09	12	15	18	21
N	3.4	10.8	4.6	.1	.0	524	18.9	12.4	18.7	22.9	17.4	27.9	24.5	18.7	12.7	19.8
NE	5.1	25.4	12.4	1.0	*	1221	44.0	13.9	42.9	56.3	46.2	46.8	40.1	50.5	44.9	39.5
E	4.8	11.2	2.5	*	.0	514	18.5	10.6	18.9	6.3	19.5	9.7	15.1	15.0	22.6	23.4
SE	1.8	2.7	.3	.0	.0	132	4.8	8.9	4.9	4.2	4.2	2.6	4.6	5.6	6.1	3.0
S	1.1	1.0	.1	.0	.0	62	2.2	7.9	2.0	2.1	2.3	1.9	1.2	1.9	3.0	3.6
SW	1.1	.9	.2	.0	.0	60	2.2	7.9	2.5	4.2	1.5	2.6	1.6	.9	2.1	4.8
W	.9	.6	*	.0	.0	42	1.5	6.5	.9	2.1	.6	1.9	1.8	2.8	2.3	1.2
NW	1.3	2.3	.3	*	.0	108	3.9	9.6	2.5	.0	3.8	4.5	7.2	3.7	3.0	1.2
VAR	*	.0	.0	.0	.0	1	*	4.0	.2	.0	.0	.0	.0	.0	.0	.0
CALM	4.1					113	4.1	.0	6.4	2.1	4.6	1.9	3.9	.9	3.2	3.6
TOT	653	1522	566	35	1	2777	100.0	11.6	550	48	524	154	568	107	659	167
PCT	23.5	54.8	20.4	1.3	*	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1885-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00003	.8	8.0	9.3	1.9	.1	.0	*	1.3	12.2	21.5	598
06009	1.3	10.8	10.2	1.2	.1	.0	.0	1.0	11.2	24.4	678
12015	1.2	10.6	10.5	1.2	*	.0	.0	.8	11.3	24.3	675
18021	1.5	12.0	13.2	2.1	.1	.0	.0	1.0	11.9	29.7	826
TOT	131	1150	1196	177	9	0	1	113	11.6		2777
PCT	4.7	41.4	43.1	6.4	.3	.0	*	4.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

BY WIND DIRECTION

WIND DIR	BY WIND DIRECTION				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD		
N	2.9	1.8	1.5	.3	152	3.2
NNE	5.8	3.2	2.3	.4	277	3.0
NE	12.8	7.9	4.4	1.1	614	2.9
ENE	8.6	4.6	3.8	.8	414	3.2
E	6.9	3.3	3.9	1.0	353	3.4
ESE	1.3	.9	1.3	.4	89	4.0
SE	1.3	.6	.7	.4	70	3.8
SSE	.5	.5	.4	.3	37	4.4
S	.5	.6	.5	.1	38	3.8
SSW	.3	.3	.1	.0	16	2.8
SW	.6	.4	.3	.1	33	3.5
WSW	.3	.3	.2	*	19	3.3
W	.2	.3	.2	.1	18	4.1
WNW	.4	.1	.2	.1	17	3.6
NW	1.0	.3	.5	.2	47	3.3
MNW	1.3	.3	.5	.1	53	2.9
VAR	.0	.0	*	.0	1	5.0
CALM	2.1	.7	.9	.3	93	3.1
TOT	1094	609	507	131	2341	3.2
PCT	46.7	26.0	21.7	5.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)											NH <5/8 ANY HGT	TOTAL OBS		
	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+					
N	.0	.0	.0	.1	.2	.3	.0	.0	.1	.0	.0	.1	.0	5.7	152
NNE	*	.0	.0	.2	.3	.2	.1	.0	.1	.0	.1	.0	.1	10.8	277
NE	*	*	.2	.4	.7	.6	.3	*	.0	.0	.0	.0	.0	23.8	614
ENE	.0	.0	*	.2	.5	1.0	*	.0	*	.1	.1	.0	.1	15.8	414
E	*	.0	*	.4	.6	.8	.1	.0	.1	.0	.1	.0	.0	12.9	353
ESE	.0	.0	.0	.2	.2	.2	.1	*	*	*	*	*	*	3.0	89
SE	.0	*	.1	.2	.1	*	.1	.0	.1	.0	.1	.0	.0	2.3	70
SSE	.0	.0	.0	*	*	.1	.1	.0	.0	.0	.0	.0	.0	1.3	37
S	.0	.0	.0	*	*	.1	*	.0	.0	.0	.0	.0	.0	1.4	38
SSW	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.6	16
SW	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1.3	33
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	19
W	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.7	18
WNW	.0	.0	.0	*	*	*	.0	.0	.0	.0	.0	.0	.0	.6	17
NW	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	1.7	47
MNW	.0	.0	.0	.1	.1	*	*	.0	.0	.0	.0	.0	.0	2.0	53
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1
CALM	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	3.6	93
TOT	3	2	10	48	75	87	26	2	12	5	2071	2341			
PCT	.1	.1	.4	2.1	3.2	3.7	1.1	.1	.5	.2	88.5	100.0			



PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1885-1967

NOVEMBER

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	.6	.7	.7	.7	.7	.7	.7
= OR >5000	.7	.8	.8	.8	.8	.8	.8
= OR >3500	1.6	1.9	1.9	1.9	1.9	1.9	1.9
= OR >2000	4.7	5.7	5.7	5.7	5.7	5.7	5.7
= OR >1000	7.3	8.8	8.9	8.9	8.9	8.9	8.9
= OR >600	8.9	10.7	10.8	10.8	10.8	10.8	10.8
= OR >300	9.2	11.1	11.2	11.3	11.3	11.3	11.3
= OR >150	9.2	11.2	11.3	11.3	11.3	11.3	11.3
= OR > 0	9.2	11.2	11.4	11.4	11.5	11.5	11.5
TOTAL	215	261	266	267	268	268	268

TOTAL NUMBER OF OBS: 2336

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.7	22.5	31.2	14.2	7.8	4.3	3.7	1.6	2.0	.1	2512

NOVEMBER

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1885-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2<1	PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	.1
1<2	PCP	.0	.0	-.1	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	-.2
	NO PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	.2
2<5	PCP	.0	.0	*	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	-.1	.0	.0	.0	5	-.2
	NO PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	0	0	2	0	1	0	1	0	0	0	0	0	0	0	2	0	0	0	6	.3
5<10	PCP	.0	.1	-.1	*	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	*	12	.5
	NO PCP	.9	1.1	1.8	1.3	1.1	.5	.2	.4	.3	-.1	*	-.1	*	-.1	.3	.5	.0	.2	202	8.9
	TOTAL	20	27	44	30	25	12	8	8	6	3	1	2	1	3	8	11	0	5	214	9.4
10<20	PCP	.1	.1	.2	*	*	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	20	.9
	NO PCP	5.4	10.3	24.0	16.1	14.1	3.2	2.5	1.1	1.3	.6	1.4	.7	.7	.6	1.5	1.8	*	3.7	2035	89.2
	TOTAL	127	238	553	369	322	75	59	28	29	13	31	17	15	14	35	42	1	87	2055	90.1
TOTAL	147	266	602	402	348	87	68	36	35	16	32	19	16	17	45	53	1	92	2282	100.0	
PCT	6.4	11.7	26.4	17.6	15.2	3.8	3.0	1.6	1.5	.7	1.4	.8	.7	.7	2.0	2.3	*	4.0	100.0		

NOVEMBER

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1885-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	22&>	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
	TOTAL	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.2
	22&>	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	TOTAL	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.2
	22&>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	2	0	1	0	1	0	0	0	0	0	0	0	2	0	0	0	0	6
5<10	0-3	.1	.1	.0	*	.1	*	.1	.1	*	.0	.0	.0	*	.0	*	.2	.0	.0	27	1.2
	4-10	.4	.1	.2	.3	.2	.2	.1	.2	.2	*	*	.1	.0	.1	.2	.1	.0	.0	57	2.4
	11-21	.3	.6	1.3	.9	.7	.3	.1	.1	*	.1	.0	.0	*	*	.1	.2	.0	.0	111	4.8
	22&>	*	.3	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	1.1
	TOTAL	20	27	46	31	26	12	8	9	6	3	1	2	2	3	8	11	0	5	220	9.4
10&>	0-3	.4	.3	.3	.4	.5	.3	.1	.1	.3	*	.2	.1	.2	*	.1	.1	.0	3.8	172	7.4
	4-10	1.9	3.0	5.7	3.7	5.3	1.7	1.5	.5	.5	.3	.6	.5	.4	.3	.6	.7	*	.0	639	27.4
	11-21	3.0	6.6	15.4	10.7	7.8	1.3	1.0	.5	.5	.2	.5	.1	*	.2	.9	.9	.0	.0	1163	49.8
	22&>	.3	.7	2.5	1.4	.3	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	128	5.5
	TOTAL	131	248	561	378	326	77	61	28	32	13	32	17	16	14	37	42	1	88	2102	90.0
TOTAL PCT	151	276	612	413	353	89	70	37	38	16	33	19	18	17	47	53	1	93	2336	100.0	
		6.5	11.8	26.2	17.7	15.1	3.8	3.0	1.6	1.6	.7	1.4	.8	.8	.7	2.0	2.3	*	4.0	100.0	

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1885-1967

NOVEMBER

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND  
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8	TOTAL
(GMT)	149	299	599	999	1999	3499	4999	6499	7999			ANY HGT	OBS
00&03	*	*	.0	.4	.9	.7	.2	*	.2	.1	66	20.2	568
06&09	*	.0	.1	.5	.5	.5	.2	*	.1	.1	53	19.2	532
12&15	*	.0	.2	.4	.9	1.0	.2	.0	.1	.0	72	23.1	648
18&21	.0	*	.2	.5	.7	1.3	.3	.0	.1	*	79	26.6	742
TOT	3	2	10	48	75	87	26	2	12	5	270	2220	2490
PCT	.1	.1	.4	1.9	3.0	3.5	1.0	.1	.5	.2	10.8	89.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00&03	.0	.0	.1	.1	2.0	20.8	539
06&09	.0	.0	*	.1	2.2	18.6	493
12&15	.0	*	.1	.0	2.4	23.7	616
18&21	.0	*	*	*	2.8	26.9	699
TOT	0	2	6	6	220	2113	2347
PCT	.0	.1	.3	.3	9.4	90.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND  
CEILING HGT (FEET, NH >4/8), AND <5/8 BY HOUR

HR	<150	<600	1000	1000+	NH <5/8	TOTAL
(GMT)	<50YD	<1	<5	&DR5+	ANY HGT	OBS
00&03	.0	.0	*	2.8	20.2	539
06&09	.0	.0	.1	2.2	18.7	493
12&15	.0	*	*	3.0	23.2	616
18&21	.0	.0	*	3.3	26.5	699
TOT	0	1	4	263	2079	2347
PCT	.0	*	.2	11.2	88.6	100.0

NOVEMBER

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1885-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
90/94	.0	.0	.0	.3	.4	.1	*	*	19	.9
85/89	.0	.0	.2	.8	3.9	4.1	.9	.2	210	10.1
80/84	.0	.0	*	1.6	13.6	33.1	18.1	4.1	1462	70.5
75/79	.0	.0	.0	.3	1.1	6.0	5.9	2.5	327	15.8
70/74	.0	.0	.0	.0	.0	.4	1.2	.7	47	2.3
65/69	.0	.0	.0	.0	.0	.1	.1	.1	8	.4
TOTAL	0	0	5	62	394	907	546	159	2073	100.0
PCT	.0	.0	.2	3.0	19.0	43.8	26.3	7.7		

TABLE 14

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.3	.2	.1	.0	.0	*	.0	.0	.0
1.3	4.0	2.7	.7	.4	.4	.1	.2	.0	.3
11.5	32.7	13.9	3.6	1.8	1.6	1.0	1.6	*	2.7
4.8	5.6	1.9	.5	.3	.1	.2	1.5	.0	.8
1.2	.2	.2	.1	*	.0	.0	.4	.0	.0
.2	.0	*	.0	.0	.0	.0	.1	.0	.0
399	889	396	102	53	44	29	81	1	79
19.2	42.9	19.1	4.9	2.6	2.1	1.4	3.9	*	3.8

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR								
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	97	87	85	82	77	74	73	81.0	601
06&09	88	87	85	81	76	71	69	80.2	681
12&15	89	88	85	81	74	69	66	80.1	676
18&21	96	93	89	83	79	77	76	83.7	817
TOT	97	91	87	81	75	70	66	81.4	2775

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR							MEAN	TOTAL OBS
	0-29	30-59	60-69	70-79	80-89	90-100			
00&03	.0	.3	3.1	10.2	6.7	2.0	78	466	
06&09	.0	.3	2.4	10.8	7.5	2.6	79	491	
12&15	.0	.4	3.3	10.9	8.2	2.2	78	524	
18&21	.0	2.2	10.3	11.9	3.8	.9	71	609	
TOT	0	68	399	915	549	159	76	2090	

PERIOD: (PRIMARY) 1952-1967  
(OVER-ALL) 1885-1967

NOVEMBER

AREA 003 GUANTANAMO  
18-20N 74-70W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	93 96	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	*	*	2	.0	.1
9/10	.0	.0	.0	.0	.0	.1	.2	.1	8	.0	.4
7/8	.0	.0	.0	.0	.1	*	.5	*	15	.0	.7
6	.0	.0	.0	*	.1	.3	.3	*	18	.0	.8
5	.0	.0	.0	.0	.0	.7	.2	.0	21	.0	.9
4	.0	.0	.0	.0	.2	1.1	.1	.0	33	.0	1.4
3	.0	.0	.0	.1	.4	1.3	.2	.0	46	.0	2.0
2	.0	.0	.0	.2	1.1	2.1	.1	.0	80	.0	3.5
1	.0	.0	.0	.1	4.0	1.8	.0	.0	134	.0	5.9
0	.0	.0	*	1.0	7.8	1.1	.0	.0	227	.0	10.0
-1	.0	.0	.0	1.0	10.0	1.4	.0	.0	282	.0	12.4
-2	.0	.0	*	3.2	12.2	.2	.0	.0	356	.0	15.6
-3	.0	.0	*	4.7	9.9	.1	.0	.0	335	.0	14.7
-4	.0	.0	.3	6.6	5.0	.0	.0	.0	273	.0	12.0
-5	.0	.0	.1	5.0	1.8	.0	.0	.0	158	.0	6.9
-6	.0	.0	.5	3.7	.4	.0	.0	.0	104	.0	4.6
-7/-8	.0	.0	1.4	2.3	.2	.0	.0	.0	89	.0	3.9
-9/-10	.0	*	1.4	.7	.0	.0	.0	.0	49	.0	2.2
-11/-13	*	.7	.7	.1	.0	.0	.0	.0	34	.0	1.5
-14/-16	.1	.5	*	.0	.0	.0	.0	.0	15	.0	.7
TOTAL	.4	27	103	653	1217	233	37	5	2279	0	2279
PCT	.2	1.2	4.5	28.7	53.4	10.2	1.6	.2	100.0		100.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

NOVEMBER

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						TOTAL	NE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.8	3.1	.6	.0	.0	.0	23	.2	2.4	1.2	.0	.0	.0	19
1-2	.0	3.7	2.2	.6	.0	.0	33	.2	5.9	6.7	1.2	.0	.0	71
3-4	.0	1.6	3.1	.2	.0	.0	25	.0	4.5	6.5	.4	.0	.0	58
5-6	.0	.0	1.0	.0	.0	.0	5	.0	.4	6.5	1.0	.0	.0	40
7	.0	.0	.2	.2	.0	.0	2	.0	.2	2.4	.4	.0	.0	15
8-9	.0	.0	.2	.4	.0	.0	3	.0	.0	.8	.8	.0	.0	8
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.6	.0	.0	4
12	.0	.0	.2	.0	.0	.0	1	.0	.0	.0	.0	.2	.0	1
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	4	43	38	7	0	0	92	2	68	123	22	1	0	216
PCT	.8	8.4	7.5	1.4	.0	.0	18.1	.4	13.4	24.2	4.3	.2	.0	42.4

HGT	E						TOTAL	SE						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.6	4.5	.6	.0	.0	.0	29	.6	1.0	.0	.0	.0	.0	8
1-2	.4	4.5	1.2	.2	.0	.0	32	.0	.8	.2	.0	.0	.0	5
3-4	.0	2.6	3.5	.2	.0	.0	32	.0	.6	1.2	.2	.0	.0	10
5-6	.0	.8	1.4	.0	.0	.0	11	.0	.4	.0	.0	.0	.0	2
7	.0	.0	.6	.2	.0	.0	4	.0	.0	.0	.0	.0	.0	0
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.2	.4	.0	.0	3	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	5	63	38	5	0	0	111	3	14	7	1	0	0	25
PCT	1.0	12.4	7.5	1.0	.0	.0	21.8	.6	2.8	1.4	.2	.0	.0	4.9

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

NOVEMBER  
TABLE 18

AREA 003 GUANTANAMO  
18-20N 74-76W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						TOTAL	SW						TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+	
<1	.0	1.2	.0	.0	.0	.0	6	.4	1.4	.0	.0	.0	.0	9
1-2	.0	1.4	.0	.0	.0	.0	7	.0	1.2	.2	.0	.0	.0	7
3-4	.0	.4	.0	.0	.0	.0	2	.0	.0	.0	.0	.0	.0	0
5-6	.0	.0	.2	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	.0	15	1	.0	.0	.0	16	.0	13	1	.0	.0	.0	16
PCT	.0	2.9	.2	.0	.0	.0	3.1	.4	2.6	.2	.0	.0	.0	3.1

HGT	W						TOTAL	NW						TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37	48+		
<1	.0	.4	.0	.0	.0	.0	2	.2	.6	.0	.0	.0	.0	4	100
1-2	.0	1.0	.2	.0	.0	.0	6	.0	1.2	2.0	.0	.0	.0	16	177
3-4	.2	.0	.0	.0	.0	.0	1	.0	.0	.6	.0	.0	.0	3	131
5-6	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.0	.0	.0	1	60
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	21
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	11
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	7
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	2
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	1	7	1	.0	.0	.0	9	1	9	14	.0	.0	.0	24	309
PCT	.2	1.4	.2	.0	.0	.0	1.8	.2	1.8	2.8	.0	.0	.0	4.7	100.0



NOVEMBER

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

AREA 003 GUANTANAMO  
18-20N 74-70W

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)							
HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	4.6	14.1	2.3	.0	.0	.0	110
1-2	1.3	19.0	12.2	1.9	.0	.0	181
3-4	.4	9.3	14.5	1.0	.0	.0	132
5-6	.0	1.7	9.0	1.0	.0	.0	61
7	.0	.2	3.0	.8	.0	.0	21
8-9	.0	.0	1.0	1.1	.0	.0	11
10-11	.0	.0	.4	1.0	.0	.0	7
12	.0	.0	.2	.0	.2	.0	2
13-16	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	33	233	223	35	1	0	525
PCT	6.3	44.4	42.5	6.7	.2	.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.4	26.3	19.8	6.5	1.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	325	2
6-7	.2	2.5	6.0	6.4	2.4	1.1	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	106	4
8-9	.0	.7	1.5	.7	.9	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	4
10-11	.0	.5	.4	.2	.5	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	6
12-13	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2
>13	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
INDET	12.2	1.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	78	0
TOTAL	92	176	154	77	30	12	7	3	0	0	0	0	0	0	0	0	0	0	0	551	2
PCT	16.7	31.9	27.9	14.0	5.4	2.2	1.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1951-1967  
(OVER-ALL) 1889-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				MAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
N	.0	.1	*	.0	.0	.0	.0	4	.2	.0	.2	.0	8	141	.2	
NNE	.1	.2	*	.0	.0	.0	.0	8	.1	.0	.1	.0	6	289	.4	
NE	.2	.3	*	.0	.0	.0	.0	11	.2	.0	*	.0	6	535	.5	
ENE	.2	.1	.1	.0	.0	.0	.0	8	.2	.0	.0	*	5	364	.4	
E	*	*	.0	.0	.0	.0	.0	2	.4	.0	.1	.0	11	361	.1	
ESE	*	.1	.0	.0	.0	.0	.0	3	*	.0	.0	.0	1	81	.1	
SE	.0	.2	.0	.0	.0	.0	.0	4	.0	.0	.0	.0	0	60	.2	
SSE	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	27	.0	
S	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	25	.0	
SSW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	13	.0	
SW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	*	.0	1	13	.0	
WSW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	7	.0	
W	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	19	.0	
WNW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	12	.0	
NW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	29	.0	
NNW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	28	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	1	.0	
CALM	.0	.1	.0	.0	.0	.0	.0	2	.1	.0	.0	.0	2	56	.1	
TOT	12	25	5	0	0	0	0	42	28	0	11	1	40	2061		
PCT	.6	1.2	.2	.0	.0	.0	.0	2.0	1.4	.0	.5	*	1.9	100.0	2.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				MAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG	DUST SNOW	TOTAL OTHER WEA		
00&03	.1	.5	.1	.0	.0	.0	.0	14	.7	.0	.1	.0	18	504	.7	
06&09	.1	.2	.0	.0	.0	.0	.0	8	.5	.0	*	.0	11	515	.4	
12&15	.2	.2	.1	.0	.0	.0	.0	11	.1	.0	.3	*	9	476	.5	
18&21	.1	.3	*	.0	.0	.0	.0	9	*	.0	*	.0	2	576	.4	
TOT	12	25	5	0	0	0	0	42	28	0	11	1	40	2071		
PCT	.6	1.2	.2	.0	.0	.0	.0	2.0	1.4	.0	.5	*	1.9	100.0	2.0	

DECEMBER

PERIOD: (PRIMARY) 1951-1967  
(OVER-ALL) 1889-1967

TABLE 3

AREA 003 GUANTANAMO  
18-20N 74-76W

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.6	3.3	2.6	.3	.0	*	154	6.8	10.7	6.4	2.9	6.2	11.1	8.5	5.6	6.0	4.7
NNE	.6	4.5	6.4	2.1	.1	.0	310	13.7	14.4	16.0	11.8	10.4	14.1	14.4	16.7	13.8	12.4
NE	.8	7.7	14.7	3.1	.1	.0	599	26.4	14.3	28.0	29.4	26.4	33.3	23.1	24.1	27.4	20.9
ENE	.1	5.6	9.8	2.2	*	.0	402	17.7	14.3	14.2	29.4	15.6	15.6	20.7	29.6	18.3	20.9
E	.8	8.6	7.2	.5	*	.0	389	17.2	11.2	17.7	8.8	20.3	8.1	17.1	11.1	17.9	15.5
ESE	.1	2.5	1.2	.1	.0	.0	88	3.9	9.9	4.3	.0	3.4	3.7	2.9	7.4	3.7	7.8
SE	.2	1.9	.8	*	.0	.0	66	2.9	8.8	2.7	.0	2.6	3.7	3.1	.0	3.3	3.9
SSE	.1	.8	.4	.0	.0	.0	31	1.4	8.7	1.2	.0	1.7	.0	.7	.0	1.8	3.9
S	.1	1.0	.1	.0	.0	.0	29	1.3	7.0	1.2	.0	2.6	.0	.9	.0	1.0	1.6
SSW	*	.5	.1	.0	.0	.0	14	.6	6.6	.6	.0	.0	.0	.4	.0	1.4	1.6
SW	*	.5	.1	.0	.0	.0	15	.7	7.9	1.2	.0	1.1	.7	.4	.0	.0	.8
WSW	.0	.3	.0	.0	.0	.0	7	.3	6.6	.0	.0	.9	.0	.4	.0	.0	.8
W	.3	.5	.2	.1	.0	.0	24	1.1	7.6	.4	5.9	1.5	3.0	.9	1.9	.6	.8
WNW	*	.4	.1	*	.0	.0	13	.6	10.2	.4	.0	.4	1.5	.7	.0	.6	.8
NW	.1	.6	.5	*	.0	.0	29	1.3	9.2	.2	8.8	3.0	.7	1.6	.0	.6	.0
NNW	.1	.7	.5	.0	.0	.0	29	1.3	10.1	.6	2.9	1.5	.7	2.5	3.7	.8	.0
VAR	*	.0	.0	.0	.0	.0	1	*	2.0	.0	.0	.2	.0	.0	.0	.0	.0
CALM	2.9						66	2.9	.0	4.7	.0	2.3	3.7	1.6	.0	2.9	3.9
TOT	159	889	1015	195	7	1	2266	100.0	12.3	486	34	469	135	445	54	514	129
PCT	7.0	39.2	44.8	8.6	.3	*	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	4.0	10.3	5.4	.7	*	464	20.5	13.2	22.4	14.7	16.6	25.2	22.9	22.2	19.8	17.1
NE	5.3	23.7	14.1	1.1	*	1001	44.2	14.3	42.2	58.8	42.0	48.9	43.8	53.7	45.7	41.9
E	4.7	13.4	2.9	.1	.0	477	21.1	11.0	22.0	8.8	23.7	11.9	20.0	18.5	21.6	23.3
SE	1.9	2.1	.2	*	.0	97	4.3	8.8	3.9	.0	4.3	3.7	3.8	.0	5.1	7.8
S	1.1	.7	*	.0	.0	43	1.9	6.8	1.9	.0	2.6	.0	1.3	.0	2.3	3.1
SW	.5	.4	*	.0	.0	22	1.0	7.5	1.2	.0	1.9	.7	.9	.0	.0	1.6
W	.8	.7	.1	*	.0	37	1.6	8.5	.8	5.9	1.9	4.4	1.6	1.9	1.2	1.6
NW	.8	1.6	.1	.0	.0	58	2.6	9.6	.8	11.8	4.5	1.3	4.0	3.7	1.4	.0
VAR	*	.0	.0	.0	.0	1	*	2.0	.0	.0	.2	.0	.0	.0	.0	.0
CALM	2.9					66	2.9	.0	4.7	.0	2.3	3.7	1.6	.0	2.9	3.9
TOT	502	1197	520	45	2	2266	100.0	12.3	486	34	469	135	445	54	514	129
PCT	22.2	52.8	22.9	2.0	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1951-1967  
(OVER-ALL) 1889-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00003	.7	8.4	10.3	2.4	.1	*	.0	1.0	12.8	22.9	520
06009	1.3	10.7	11.8	2.0	*	.0	*	.7	11.8	26.7	604
12015	1.0	9.3	9.9	1.5	*	.0	.0	.3	12.1	22.0	499
18021	1.1	10.8	12.7	2.7	.1	.0	.0	.9	12.6	28.4	643
TOT	92	889	1015	195	7	1	1	66	12.3		2266
PCT	4.1	39.2	44.8	8.6	.3	*	*	2.9		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION					MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSD	TOTAL OBS	
N	2.9	1.2	2.1	.6	130	3.6
NNE	5.4	3.3	3.9	.9	257	3.6
NE	11.7	6.8	5.5	1.8	492	3.2
ENE	8.9	4.2	3.9	.8	339	3.1
E	8.7	4.4	3.8	1.2	345	3.3
ESE	1.9	.7	.8	.3	71	3.3
SE	1.5	.5	.5	.2	53	3.1
SSE	1.0	.3	.2	.1	29	2.3
S	.7	.2	.3	.1	23	3.0
SSW	.3	.1	.3	.1	13	3.7
SW	.3	.1	.2	.0	12	3.3
WSW	.2	.2	.1	.0	7	3.0
W	.5	.1	.2	.1	17	3.5
WNW	.1	.1	.4	.0	11	4.6
NW	.6	.3	.5	.1	28	3.4
NNW	.5	.2	.7	.0	27	3.7
VAR	.0	.0	.1	.0	1	6.0
CALM	1.9	.4	.3	.2	52	2.2
TOT	899	438	450	120	1907	3.3
PCT	47.1	23.0	23.6	6.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION											NH <5/8 ANY HGT	TOTAL OBS
000	150	300	600	1000	2000	3500	5000	6500	8000+			
149	299	599	999	1999	3499	4999	6499	7999				
.0	.0	.2	.2	.4	.5	.0	.0	.1	.1	5.5	130	
.1	.0	.1	.4	.7	.6	.2	.2	.0	.1	11.2	257	
.1	.0	.1	.7	1.4	1.0	.3	.1	.1	.1	22.1	492	
.1	.0	.2	.4	.6	.9	.1	.0	.0	.1	15.6	339	
.0	.0	.1	.3	.6	.9	.3	.0	.0	.1	15.8	345	
.1	.0	.0	.0	.5	.1	.1	.0	.0	.0	3.0	71	
.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	2.5	53	
.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	1.4	29	
.0	.0	.0	.0	.1	.1	.0	.1	.0	.0	1.0	23	
.0	.0	.0	.1	.1	.1	.0	.1	.0	.1	.5	13	
.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.5	12	
.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3	7	
.0	.0	.0	.0	.2	.0	.0	.0	.0	.1	.6	17	
.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.4	11	
.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	1.1	28	
.0	.0	.0	.0	.1	.1	.1	.0	.0	.1	1.1	27	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	
.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	2.6	52	
5	1	12	43	95	87	20	8	3	9	1624	1907	
.3	.1	.6	2.3	5.0	4.6	1.0	.4	.2	.5	85.2	100.0	

PERIOD: (PRIMARY) 1951-1967  
 (OVER-ALL) 1889-1967

DECEMBER

AREA 003 GUANTANAMO  
 18-20N 74-76W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
 OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	.6	.6	.6	.6	.6	.6	.6
= OR >5000	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >3500	2.0	2.1	2.1	2.1	2.1	2.1	2.1
= OR >2000	5.7	6.7	6.7	6.7	6.7	6.7	6.7
= OR >1000	9.7	11.6	11.7	11.7	11.7	11.7	11.7
= OR >600	11.5	13.8	13.9	14.0	14.0	14.0	14.0
= OR >300	11.9	14.3	14.6	14.6	14.6	14.6	14.6
= OR >150	11.9	14.4	14.6	14.7	14.7	14.7	14.7
= OR > 0	12.0	14.6	14.8	14.9	14.9	14.9	14.9
TOTAL	229	277	281	283	284	284	284

TOTAL NUMBER OF OBS: 1903

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
15.0	23.0	27.4	12.7	6.7	4.7	4.6	3.1	2.6	.1	2018

PERIOD: (PRIMARY) 1951-1967  
(OVER-ALL) 1889-1967

DECEMBER

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.0
1/2<1	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	.1
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
	NO PCP	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	3	.2
	TOTAL	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	4	.2
2<5	PCP	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.2
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	.2
5<10	PCP	.1	.2	.3	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	.8
	NO PCP	.7	.6	1.2	1.0	1.3	.1	.1	.0	.0	.1	.1	.0	.0	.2	.1	.3	.0	.0	108	5.8
	TOTAL	15	15	28	20	25	3	3	0	0	1	2	0	0	3	2	6	0	0	123	6.6
10<5	PCP	.1	.1	.2	.2	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	.7
	NO PCP	5.9	12.6	24.1	16.3	16.6	3.4	2.6	1.5	1.1	.6	.5	.3	.9	.4	1.4	1.1	.1	2.7	1716	92.2
	TOTAL	112	237	452	308	309	65	46	27	22	11	10	6	17	8	26	20	1	50	1729	92.9
TOTAL	127	252	483	328	335	68	53	27	22	12	12	7	17	11	28	26	1	52	1861	100.0	
PCT	6.8	13.5	26.0	17.6	18.0	3.7	2.8	1.5	1.2	.6	.6	.4	.9	.6	1.5	1.4	.1	2.8	100.0		

DECEMBER

PERIOD: (PRIMARY) 1951-1967  
(OVER-ALL) 1889-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNN	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	226>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	226>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	2	.1
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
	226>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	4
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
	4-10	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
	11-21	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
	226>	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	TOTAL	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	4
5<10	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
	4-10	.2	.2	.2	.1	.4	.1	.1	.0	.0	.0	.1	.0	.0	.1	.0	.2	.0	.0	28	1.5
	11-21	.6	.5	1.1	.8	1.0	.1	.1	.0	.0	.1	.1	.0	.0	.1	.1	.2	.0	.0	86	4.5
	226>	.1	.2	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	17	.9
	TOTAL	17	17	28	22	27	3	3	0	0	1	2	0	0	3	2	7	0	0	132	6.9
10<6	0-3	.4	.5	.5	.1	.8	.0	.1	.2	.2	.1	.0	.0	.2	.1	.2	.1	.1	2.6	114	6.0
	4-10	2.3	2.5	4.7	3.0	5.1	1.6	1.3	.7	.7	.5	.3	.3	.4	.2	.6	.2	.0	.0	463	24.3
	11-21	3.0	7.5	16.0	11.2	10.0	1.8	1.1	.6	.4	.1	.3	.1	.2	.2	.6	.8	.0	.0	1022	53.7
	226>	.3	2.2	3.0	2.3	.6	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	163	8.5
	TOTAL	114	239	461	316	315	67	48	29	23	12	10	6	17	8	26	20	1	50	1762	92.6
TOTAL PCT	131 6.9	256 13.5	492 25.9	338 17.8	343 18.0	70 3.7	53 2.8	29 1.5	23 1.2	13 .7	12 .6	7 .4	17 .9	11 .6	28 1.5	27 1.4	1 .1	52 2.7	1903 100.0	100.0	

PERIOD: (PRIMARY) 1951-1967  
(OVER-ALL) 1889-1967

DECEMBER

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND  
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8	TOTAL
(GMT)	149	299	599	999	1999	3499	4999	6499	7999			ANY HGT	OBS
00003	.2	.0	.4	.9	1.1	.8	.2	.2	.1	.1	76	21.1	497
06009	.0	.0	.1	.2	1.4	.7	.4	.1	.0	.2	58	20.3	464
12015	.1	.0	.2	.6	1.1	1.2	.3	.0	.0	.1	68	20.8	483
18021	.0	.1	.0	.5	1.2	1.8	.2	.2	.1	.2	82	23.6	553
TOT	5	1	12	43	95	88	20	8	3	9	284	1713	1997
PCT	.3	.1	.6	2.2	4.8	4.4	1.0	.4	.2	.5	14.2	85.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.0	.0	.1	.1	1.9	22.8	474
06009	.0	.0	.1	.0	1.5	21.7	444
12015	.0	.1	.1	.1	1.7	22.3	463
18021	.0	.0	.0	.1	1.9	25.7	530
TOT	0	1	4	4	133	1769	1911
PCT	.0	.1	.2	.2	7.0	92.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND  
CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HR	<150	<600	1000	1000+	NH <5/8	TOTAL
(GMT)	<50YD	<1	<5	&OR5+	ANY HGT	OBS
00003	.0	.0	.1	3.9	20.8	474
06009	.0	.0	.0	3.0	20.2	444
12015	.0	.1	.1	3.5	20.7	463
18021	.0	.0	.1	4.2	23.4	530
TOT	0	1	4	279	1627	1911
PCT	.0	.1	.2	14.6	85.1	100.0



DECEMBER

PERIOD: (PRIMARY) 1951-1967  
(OVER-ALL) 1889-1967

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
90/94	.0	.0	.0	.1	.3	.1	.1	.1	10	.6
85/89	.0	.0	.0	.2	1.6	1.7	.2	.1	65	3.8
80/84	.0	.0	.1	1.3	11.0	25.1	10.2	2.7	869	50.6
75/79	.0	.0	.0	.9	4.1	19.8	12.4	4.4	715	41.6
70/74	.0	.0	.0	.0	.3	.7	1.3	.6	51	3.0
65/69	.0	.0	.0	.0	.0	.2	.3	.0	9	.5
TOTAL	0	0	2	45	296	819	421	136	1719	100.0
PCT	.0	.0	.1	2.6	17.2	47.6	24.5	7.9		

TABLE 14

	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW				
90/94	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1
85/89	.6	1.5	1.1	.1	.1	.1	.0	.1	.0	.1	.0	.2
80/84	7.8	21.5	14.1	2.6	1.0	.5	.5	.7	.1	1.7	.1	1.7
75/79	9.5	20.1	6.3	1.5	.8	.5	1.0	1.0	.0	.8	.0	.8
70/74	1.3	.6	.0	.1	.0	.1	.2	.5	.0	.2	.0	.2
65/69	.2	.1	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
TOTAL	336	757	375	74	33	20	30	41	1	52	.1	3.0
PCT	19.5	44.0	21.8	4.3	1.9	1.2	1.7	2.4	.1	3.0		

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR									
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS	
00&03	87	86	83	80	76	71	69	79.4	511	
06&09	87	84	82	79	75	69	67	78.3	595	
12&15	88	86	83	79	73	69	65	78.5	497	
18&21	93	92	88	83	78	75	73	81.6	635	
TOT	93	87	83	78	73	69	65	79.5	2238	

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR							MEAN	TOTAL OBS
	0-29	30-59	60-69	70-79	80-89	90-100			
00&03	.0	.2	3.2	12.6	6.5	1.9	78	420	
06&09	.0	.2	1.8	11.3	8.4	2.2	79	413	
12&15	.0	.3	2.6	11.7	5.8	2.7	78	403	
18&21	.0	1.8	9.6	12.1	3.9	1.2	72	493	
TOT	0	47	297	824	425	136	76	1729	

PERIOD: (PRIMARY) 1951-1967  
(OVER-ALL) 1889-1967

DECEMBER

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.2	4	.0	.2
7/8	.0	.0	.0	.0	.1	.3	.2	10	.0	.6
6	.0	.0	.0	.0	.1	.3	.0	6	.0	.3
5	.0	.0	.0	.1	.1	.6	.1	14	.0	.8
4	.0	.0	.0	.1	.5	.6	.0	21	.0	1.2
3	.0	.0	.0	.2	1.3	.7	.0	39	.0	2.2
2	.0	.0	.0	.3	2.7	.3	.0	59	.0	3.4
1	.0	.0	.1	1.0	3.9	.5	.0	95	.0	5.4
0	.0	.0	.0	4.3	5.6	.1	.0	176	.0	10.0
-1	.0	*	.1	6.0	5.4	.1	.0	204	.0	11.6
-2	.0	.0	.3	13.0	4.8	.1	.0	320	.0	18.2
-3	.0	.0	.3	11.3	2.2	.0	.0	243	.0	13.8
-4	.0	.1	1.3	10.8	.6	.0	.0	224	.0	12.7
-5	.0	.0	1.0	6.1	.3	.0	.0	131	.0	7.4
-6	.0	.0	2.2	2.5	.0	*	.0	84	.0	4.8
-7/-8	.1	.1	2.7	1.5	.2	.0	.0	79	.0	4.5
-9/-10	.0	.6	.6	.3	.0	.0	.0	27	.0	1.5
-11/-13	.1	.8	.0	.2	.0	.0	.0	19	.0	1.1
-14/-16	.2	.1	.0	.0	.0	.0	.0	5	.0	.3
TOTAL	6	27	151	1018	487	62	10	1761	0	1761
PCT	.3	1.5	8.6	57.8	27.7	3.5	.6	100.0		100.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

DECEMBER

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	.5	4.3	.0	.0	.0	.0	20	.0	.7	.2	.0	.0	.0	4
1-2	.5	4.0	.9	.5	.0	.0	25	.2	3.5	5.2	.2	.0	.0	39
3-4	.0	.5	1.9	.2	.0	.2	12	.2	4.0	8.0	2.6	.0	.0	63
5-6	.0	.5	1.4	.2	.0	.0	9	.0	.7	7.3	1.4	.0	.0	40
7	.0	.2	.5	.5	.0	.0	5	.0	.2	3.8	1.2	.0	.0	22
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.9	.7	.0	.0	7
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.9	.0	.0	5
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.2	.0	1
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.5	.0	.0	2
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	4	40	20	6	0	1	71	2	39	109	32	1	0	183
PCT	.9	9.5	4.7	1.4	.0	.2	16.8	.5	9.2	25.8	7.6	.2	.0	43.3

HGT	E							SE						
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL
<1	.0	1.7	.5	.0	.0	.0	9	.0	.7	.0	.0	.0	.0	3
1-2	.2	8.5	3.2	.2	.0	.0	52	.0	1.2	.2	.0	.0	.0	6
3-4	.0	3.5	4.0	.2	.0	.0	33	.2	1.4	.0	.0	.0	.0	7
5-6	.0	.5	1.9	.5	.0	.0	12	.0	.2	.0	.0	.0	.0	1
7	.0	.2	1.4	.5	.0	.0	9	.0	.0	.0	.2	.0	.0	1
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	61	47	6	0	0	115	1	15	1	1	0	0	18
PCT	.2	14.4	11.1	1.4	.0	.0	27.2	.2	3.5	.2	.2	.0	.0	4.3

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

DECEMBER  
TABLE 18

AREA 003 GUANTANAMO  
18-20N 74-76W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.0	.5	.0	.0	.0	.0	2	.0	.2	.0	.0	.0	.0	1		
1-2	.0	.9	.2	.0	.0	.0	5	.0	.2	.0	.0	.0	.0	1		
3-4	.0	.5	.2	.0	.0	.0	3	.0	.2	.2	.0	.0	.0	2		
5-6	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
TOTAL	.0	.8	.2	.0	.0	.0	10	.0	.3	.1	.0	.0	.0	4		
PCT	.0	1.9	.5	.0	.0	.0	2.4	.0	.7	.2	.0	.0	.0	.9		

HGT	M							NW							TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-37	48+	TOTAL	1-3	4-10	11-21	22-33	34-37	48+	TOTAL		
<1	.0	.0	.0	.0	.0	.0	0	.0	.5	.0	.0	.0	.0	2	41	
1-2	.2	1.2	.0	.2	.0	.0	7	.0	1.2	.5	.2	.0	.0	8	143	
3-4	.2	.0	.5	.0	.0	.0	3	.0	.5	.0	.0	.0	.0	2	125	
5-6	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	62	
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	37	
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	7	
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	5	
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	1	
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	2	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0	
TOTAL	.2	.5	.2	.1	.0	.0	10	.0	.9	.2	.1	.0	.0	12	423	
PCT	.5	1.2	.5	.2	.0	.0	2.4	.0	2.1	.5	.2	.0	.0	2.8	100.0	

DECEMBER

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1967

TABLE 18 (CONT)

AREA 003  
18-20N GUANTANAMO  
74-76W

WIND SPEED (KTS) VS SEA HEIGHT (FT)							
HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	2.1	8.4	.7	.0	.0	.0	48
1-2	1.2	20.5	10.2	1.4	.0	.0	143
3-4	.7	10.5	14.7	3.0	.0	.2	125
5-6	.0	1.9	10.5	2.1	.0	.0	62
7	.0	.7	5.6	2.3	.0	.0	37
8-9	.0	.0	.9	.7	.0	.0	7
10-11	.0	.0	.2	.9	.0	.0	5
12	.0	.0	.0	.0	.2	.0	1
13-16	.0	.0	.0	.5	.0	.0	2
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	17	180	184	47	1	1	430
PCT	4.0	41.9	42.8	10.9	.2	.2	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	2.2	22.0	28.1	8.4	3.5	.4	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	300	3
6-7	.0	2.4	5.5	4.4	3.7	1.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	81	4
8-9	.0	.9	1.1	2.0	1.8	1.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	5
10-11	.0	.0	.0	.2	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
12-13	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
>13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	5.5	.2	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	0
TOTAL	35	117	158	71	49	14	6	3	2	0	0	0	0	0	0	0	0	0	0	0	455	3
PCT	7.7	25.7	34.7	15.6	10.8	3.1	1.3	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1864-1968

ANNUAL

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG SNOW	TOTAL OTHER WEA		
N	.1	.1	*	.0	.0	.0	.0	52	.2	*	.1	*	113	2344	.1
NNE	.1	.1	*	.0	.0	.0	.0	53	.2	*	.1	*	122	3100	.1
NE	.1	.1	*	.0	.0	.0	.0	102	.6	*	.1	*	238	6290	.3
ENE	.1	.1	*	.0	.0	.0	.0	81	.5	.0	.1	*	190	4972	.2
E	.1	.1	*	.0	.0	.0	*	118	.6	*	.1	*	270	7173	.3
ESE	.1	.1	*	.0	.0	.0	.0	79	.3	.0	.1	*	119	2798	.2
SE	.1	.1	*	.0	.0	.0	.0	65	.2	.0	*	.0	67	2092	.2
SSE	*	*	*	.0	.0	.0	.0	31	.1	.0	*	*	39	974	.1
S	*	*	*	.0	.0	.0	*	31	.1	.0	*	.0	46	957	.1
SSW	*	*	*	.0	.0	.0	.0	12	*	.0	*	*	19	456	*
SW	*	*	*	.0	.0	.0	.0	14	*	.0	*	*	18	478	*
WSW	*	*	*	.0	.0	.0	.0	9	*	.0	.0	.0	11	287	*
W	*	*	*	.0	.0	.0	.0	12	*	.0	*	.0	14	433	*
WNW	*	*	*	.0	.0	.0	.0	8	*	.0	*	.0	8	283	*
NW	*	.1	*	.0	.0	.0	.0	27	.1	.0	*	.0	28	668	.1
NNW	*	*	.0	.0	.0	.0	.0	15	.1	*	*	.0	44	983	*
VAR	*	*	.0	.0	.0	.0	.0	4	*	.0	.0	.0	4	46	*
CALM	*	*	*	.0	.0	.0	*	19	.1	*	.1	.0	82	1320	.1
TOT	293	350	86	0	0	0	3	732	1124	16	278	14	1432	35654	
PCT	.8	1.0	.2	.0	.0	.0	*	2.1	3.2	*	.8	*	4.0	100.0	2.1

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE				HAIL	TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	PCT PCPN AT OB TIME
			DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG	SMOKE HAZE	DUST BLWG SNOW	TOTAL OTHER WEA		
00&03	.2	.2	.1	.0	.0	.0	*	162	1.1	*	.2	*	488	8348	.5
06&09	.2	.3	.1	.0	.0	.0	*	224	1.9	*	.1	*	729	8455	.6
12&15	.2	.2	.1	.0	.0	.0	.0	187	.1	*	.3	*	149	8857	.5
18&21	.2	.3	*	.0	.0	.0	*	171	*	.0	.2	*	79	10267	.5
TOT	298	356	87	0	0	0	3	744	1135	16	279	15	1445	35927	
PCT	.8	1.0	.2	.0	.0	.0	*	2.1	3.2	*	.8	*	4.0	100.0	2.1

## ANNUAL

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1864-1968

TABLE 3

AREA 003 GUANTANAMO  
18-20N 74-76W

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.9	3.7	1.7	.1	*	*	2498	6.4	8.7	5.2	8.7	5.5	8.8	12.8	5.0	3.0	3.0
NNE	.6	3.9	3.6	.6	*	.0	3397	8.7	11.6	11.1	9.2	8.4	9.2	10.3	7.4	5.9	7.7
NE	.8	6.8	8.5	1.7	.1	.0	6986	17.9	13.0	20.1	21.7	20.6	19.8	16.3	18.4	15.2	14.7
ENE	.5	5.1	7.0	1.6	*	*	5531	14.2	13.4	11.9	18.3	15.0	17.0	13.0	22.8	14.3	12.8
E	1.1	9.2	8.6	1.1	*	*	7797	20.0	11.6	19.0	12.0	20.5	14.3	17.2	20.4	24.8	20.3
ESE	.4	3.8	3.3	.4	*	.0	3065	7.9	11.2	7.7	4.3	6.3	5.4	6.3	6.0	10.9	11.4
SE	.6	3.3	2.0	.1	*	*	2312	5.9	9.8	5.7	2.4	4.9	4.6	4.6	5.4	8.5	7.3
SSE	.3	1.6	.8	.1	*	.0	1072	2.7	9.3	2.7	1.6	2.2	1.7	2.4	2.3	3.7	4.0
S	.4	1.6	.6	*	.0	.0	1029	2.6	8.2	2.8	2.2	2.3	1.6	2.0	2.1	3.3	4.2
SSW	.2	.8	.3	*	*	*	493	1.3	8.1	1.6	1.3	.8	1.1	.7	1.0	1.5	2.5
SW	.2	.8	.3	*	*	.0	522	1.3	8.3	1.6	.7	1.1	1.2	.8	.9	1.5	2.8
WSW	.1	.5	.1	*	.0	.0	303	.8	7.9	1.2	.8	.5	.6	.4	.6	.9	1.4
W	.3	.8	.2	*	.0	.0	481	1.2	7.2	1.5	2.8	1.1	1.5	.9	1.3	1.1	1.6
WNW	.1	.5	.1	*	.0	*	312	.8	7.6	.8	1.6	.8	.8	1.1	.7	.6	.4
NW	.3	1.2	.3	*	.0	.0	719	1.8	7.3	1.2	3.3	2.9	2.6	2.4	2.0	.8	1.5
NNW	.4	1.6	.5	*	*	*	1022	2.6	7.7	1.5	4.4	3.0	4.5	5.3	1.2	.9	1.2
VAR	.1	*	.0	.0	.0	.0	45	.1	2.6	.2	.1	.2	*	.1	.1	.1	.1
CALM	3.7						1438	3.7	.0	4.3	4.7	4.0	5.0	3.4	2.5	3.1	3.0
TOT	4284	17623	14757	2281	72	10	39027	100.0	10.8	7730	890	7461	2146	7875	1504	9162	2259
PCT	11.0	45.2	37.8	5.8	.2	*	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40					00	03	06	09	12	15	18	21
N	4.8	8.0	2.2	.1	*	5895	15.1	10.3	16.3	17.9	13.9	18.0	23.1	12.4	8.8	10.7
NE	5.5	17.7	8.1	.8	*	12517	32.1	13.2	32.0	40.0	35.6	36.7	29.3	41.2	29.5	27.5
E	6.3	16.6	4.8	.2	*	10862	27.8	11.5	26.7	16.3	26.7	19.7	23.5	26.4	35.7	31.7
SE	2.9	5.0	.8	.1	*	3384	8.7	9.7	8.4	3.9	7.1	6.5	7.0	7.7	12.1	11.4
S	1.8	1.9	.2	*	*	1522	3.9	8.2	4.3	3.6	3.2	2.7	2.8	3.1	4.8	6.7
SSW	.9	1.1	.1	*	.0	830	2.1	8.2	2.9	1.5	1.6	1.8	1.3	1.5	2.4	4.2
SW	1.1	.9	.1	*	*	793	2.0	7.4	2.3	4.4	1.9	2.4	2.0	2.0	1.7	2.0
NW	2.3	2.0	.2	*	*	1741	4.5	7.5	2.7	7.6	5.8	7.1	7.7	3.2	1.8	2.7
VAR	.1	.0	.0	.0	.0	45	.1	2.6	.2	.1	.2	*	.1	.1	.1	.1
CALM	3.7					1438	3.7	.0	4.3	4.7	4.0	5.0	3.4	2.5	3.1	3.0
TOT	11405	20721	6420	463	17	39027	100.0	10.8	7730	890	7461	2146	7875	1504	9162	2259
PCT	29.2	53.1	16.5	1.2	*	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

ANNUAL

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1864-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						VAR	CALM	MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
00&03	1.6	9.5	8.4	1.6	.1	*	*	1.0	11.1	22.1	8620
06&09	2.0	11.6	8.7	1.2	*	*	*	1.0	10.3	24.6	9607
12&15	1.9	11.4	8.9	1.1	*	*	*	.8	10.4	24.0	9379
18&21	1.8	12.6	11.9	1.9	.1	*	*	.9	11.3	29.3	11421
TOT	2811	17613	14757	2281	72	10	45	1438	10.8		39027
PCT	7.2	45.1	37.8	5.8	.2	*	.1	3.7		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT(EIGHTHS)

WIND DIR	BY WIND DIRECTION					MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBS	TOTAL OBS	
N	3.3	1.3	1.7	.4	2293	3.2
NNE	3.9	2.0	2.1	.5	2913	3.3
NE	8.0	4.6	3.7	.9	5837	3.2
ENE	6.6	3.4	3.5	.8	4819	3.3
E	8.1	5.3	5.4	1.3	6843	3.6
ESE	2.6	2.1	2.4	.7	2629	3.9
SE	2.1	1.5	1.7	.5	1969	3.8
SSE	1.0	.7	.8	.3	940	3.9
S	1.0	.6	.8	.3	911	4.0
SSW	.5	.3	.4	.1	441	3.5
SW	.6	.3	.4	.1	455	3.6
WSW	.3	.2	.3	.1	280	4.0
W	.6	.2	.3	.1	422	3.5
WNW	.4	.1	.2	.1	275	3.7
NW	.9	.3	.5	.2	657	3.3
NNW	1.5	.5	.7	.2	975	3.1
VAR	*	*	*	*	35	3.9
CALM	1.8	.8	.8	.2	1212	3.0
TOT	14731	8167	8715	2293	33906	3.4
PCT	43.4	24.1	25.7	6.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS(FT,NH >4/8)

	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION											NH <5/8 ANY HGT	TOTAL OBS
	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+			
N	*	*	*	.1	.2	.3	.1	*	*	.1	6.0	2293	
NNE	*	*	*	.2	.3	.3	.1	*	*	*	7.5	2913	
NE	*	*	.1	.3	.6	.6	.2	.1	*	.1	15.3	5837	
ENE	*	*	.1	.2	.5	.6	.1	.1	*	.1	12.6	4819	
E	*	*	.1	.4	.9	.7	.2	.1	.1	.1	17.6	6843	
ESE	*	*	*	.2	.4	.2	.1	*	*	*	6.7	2629	
SE	*	*	*	.2	.3	.2	.1	*	*	*	4.9	1969	
SSE	*	*	*	.1	.1	.2	*	*	*	*	2.3	940	
S	*	*	*	.1	.2	.1	*	*	*	*	2.2	911	
SSW	.0	.0	.0	*	.1	.1	*	*	*	*	1.1	441	
SW	.0	.0	*	*	.1	.1	*	*	*	.0	1.1	455	
WSW	.0	*	.0	*	.1	.1	*	.0	*	*	.7	280	
W	*	.0	*	*	.1	*	*	*	*	*	1.1	422	
WNW	*	.0	*	*	*	*	*	*	*	.0	.7	275	
NW	.0	.0	*	*	.1	.1	*	*	*	*	1.6	657	
NNW	*	*	*	*	.1	.1	*	*	*	*	2.6	975	
VAR	.0	.0	.0	*	*	.0	.0	.0	*	*	.1	35	
CALM	*	.0	*	.1	.1	.1	*	*	*	*	3.2	1212	
TOT	55	16	127	623	1390	1308	387	158	118	153	29571	33906	
PCT	.2	*	.4	1.8	4.1	3.9	1.1	.5	.3	.5	87.2	100.0	



PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1864-1968

ANNUAL

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)						
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >55YD
= OR >6500	.6	.8	.8	.8	.8	.8	.8
= OR >5000	.9	1.3	1.3	1.3	1.3	1.3	1.3
= OR >3500	1.8	2.4	2.4	2.4	2.4	2.4	2.4
= OR >2000	4.7	6.2	6.3	6.3	6.3	6.3	6.3
= OR >1000	7.8	10.2	10.3	10.4	10.4	10.4	10.4
= OR >600	9.2	11.9	12.1	12.2	12.2	12.2	12.2
= OR >300	9.5	12.3	12.5	12.5	12.5	12.6	12.6
= OR >150	9.5	12.3	12.5	12.6	12.6	12.6	12.6
= OR > 0	9.6	12.4	12.7	12.7	12.7	12.8	12.8
TOTAL	3255	4214	4299	4316	4329	4343	4343

TOTAL NUMBER OF OBS: 33978

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.6	23.2	29.2	12.9	7.3	4.6	4.3	1.9	1.9	.1	36006

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1864-1968

ANNUAL

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	*	.0	.0	.0	*	*	*	*	*	.0	.0	.0	.0	.0	*	*	.0	.0	11	*
	NO PCP	.0	*	*	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	8	*
	TOTAL	2	1	1	0	4	4	1	1	2	0	0	0	0	0	1	2	0	0	19	.1
1/2<1	PCP	.0	*	*	.0	*	.0	*	*	*	.0	.0	.0	.0	.0	*	.0	.0	.0	13	*
	NO PCP	.0	*	.0	*	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	*
	TOTAL	0	2	4	1	2	0	2	1	4	0	0	0	0	0	1	0	0	0	17	.1
1<2	PCP	.0	.0	*	*	*	*	.0	.0	.0	.0	*	.0	.0	*	.0	*	.0	*	18	.1
	NO PCP	*	*	*	*	*	*	*	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	14	*
	TOTAL	1	2	6	3	8	3	1	0	0	0	2	1	0	1	0	1	0	3	32	.1
2<5	PCP	*	*	*	*	*	*	*	*	*	*	.0	*	*	*	*	*	.0	*	78	.2
	NO PCP	*	*	*	*	*	*	*	*	*	.0	*	.0	.0	*	.0	*	.0	*	51	.2
	TOTAL	13	10	10	7	26	12	13	7	5	1	1	1	2	3	5	5	0	8	129	.4
5<10	PCP	.1	*	.1	.1	.1	.1	*	*	*	*	*	*	*	*	*	*	*	*	235	.7
	NO PCP	1.3	1.0	1.8	1.7	2.5	.9	.6	.4	.4	.3	.2	.2	.2	.2	.4	.7	*	.4	4444	13.5
	TOTAL	505	359	622	588	843	313	213	147	146	111	75	53	85	84	153	246	3	133	4679	14.2
10< >	PCP	.1	*	.1	.1	.1	.1	.1	*	*	*	*	*	*	*	*	*	*	*	224	.7
	NO PCP	5.2	7.4	15.2	12.2	17.4	6.7	5.0	2.3	2.2	1.0	1.1	.6	1.0	.6	1.5	2.1	.1	3.1	27913	84.6
	TOTAL	1724	2472	5043	4057	5782	2225	1675	752	727	320	369	218	320	183	486	706	32	1046	28137	85.2
	TOTAL	2245	2846	5686	4656	6665	2557	1905	908	884	432	447	273	407	271	646	960	35	1190	33013	100.0
	PCT	6.8	8.6	17.2	14.1	20.2	7.7	5.8	2.8	2.7	1.3	1.4	.8	1.2	.8	2.0	2.9	.1	3.6	100.0	

ANNUAL

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1864-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	3	*
	4-10	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	*
	11-21	*	.0	*	.0	*	*	.0	*	*	.0	.0	.0	.0	.0	*	.0	.0	.0	12	*
	22&>	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	*
	TOTAL	2	1	1	0	4	4	1	1	2	0	0	0	0	0	1	2	0	0	19	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	*	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	*
	11-21	.0	*	*	*	*	.0	*	.0	*	.0	.0	.0	.0	.0	*	.0	.0	.0	10	*
	22&>	.0	*	*	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	*
	TOTAL	0	2	4	1	2	0	2	1	4	0	0	0	0	0	1	0	0	0	17	.1
1<2	0-3	*	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	6	*
	4-10	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	*	.0	*	.0	.0	.0	.0	4	*
	11-21	.0	*	*	*	*	*	*	.0	.0	.0	*	.0	.0	.0	.0	*	.0	.0	20	.1
	22&>	.0	.0	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	*
	TOTAL	1	2	6	4	8	3	1	0	0	0	2	1	0	1	0	1	0	3	33	.1
2<5	0-3	.0	*	*	.0	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	13	*
	4-10	*	*	*	*	*	*	.0	*	.0	.0	*	*	*	*	.0	*	.0	.0	33	.1
	11-21	*	*	*	*	.1	*	*	*	*	*	.0	.0	*	*	*	*	.0	.0	71	.2
	22&>	.0	.0	*	*	*	.0	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	*
	TOTAL	13	10	10	8	27	12	13	7	5	1	1	1	2	3	5	5	0	8	131	.4
5<10	0-3	.2	.1	.1	.1	.2	.1	.1	.1	.1	*	*	*	.1	.1	.1	.1	*	.4	555	1.6
	4-10	.7	.4	.4	.4	.6	.3	.3	.2	.2	.1	.1	.1	.1	.1	.3	.4	*	*	1681	4.9
	11-21	.6	.4	1.0	1.0	1.5	.5	.3	.2	.1	.1	.1	.1	.1	*	.1	.2	.0	.0	2144	6.3
	22&>	*	.1	.3	.3	.3	.1	*	*	*	*	*	.0	*	*	*	*	.0	.0	418	1.2
	TOTAL	518	362	634	601	875	323	227	154	146	113	77	56	87	84	153	249	3	136	4798	14.1
10&>	0-3	.7	.5	.6	.4	.9	.4	.4	.2	.3	.1	.1	.1	.2	.1	.3	.3	.1	3.1	3026	8.9
	4-10	2.5	2.5	4.0	3.0	5.6	2.4	2.1	1.1	1.1	.5	.6	.4	.5	.3	.8	1.1	*	*	9657	28.4
	11-21	1.9	3.9	9.1	7.6	10.1	3.7	2.5	1.0	.8	.3	.4	.2	.3	.1	.4	.6	.0	.0	14620	43.0
	22&>	.1	.5	1.4	1.4	.9	.3	.1	*	*	*	*	*	*	*	*	*	.0	.0	1677	4.9
	TOTAL	1763	2538	5184	4217	5933	2297	1733	784	757	333	377	226	333	190	501	721	32	1061	28980	85.3
TOTAL		2297	2915	5839	4831	6849	2639	1977	947	914	447	457	284	422	278	661	978	35	1208	33978	100.0
PCT		6.8	8.6	17.2	14.2	20.2	7.8	5.8	2.8	2.7	1.3	1.3	.8	1.2	.8	1.9	2.9	.1	3.6	100.0	

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1864-1968

ANNUAL

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	*	*	.1	.4	1.0	.9	.3	.1	.1	.1	1138	20.2	8377
06&09	*	*	.1	.5	.9	.7	.2	.1	.1	.1	949	19.7	7999
12&15	.1	*	.1	.5	1.0	1.0	.3	.1	.1	.1	1134	22.2	9065
18&21	*	*	.1	.4	1.0	1.1	.3	.1	.1	.1	1161	25.6	10335
TOT	55	16	128	626	1402	1331	390	159	118	157	4382	31394	35776
PCT	.2	*	.4	1.7	3.9	3.7	1.1	.4	.3	.4	12.2	87.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	*	*	*	.1	3.2	20.1	8024
06&09	*	*	*	.1	3.2	19.0	7602
12&15	*	*	*	.1	3.7	21.6	8717
18&21	*	*	*	.1	4.0	24.6	9833
TOT	19	17	34	131	4819	29156	34176
PCT	.1	*	.1	.4	14.1	85.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND  
CEILING HGT (FEET, NH >4/8), AND NH <5/8 BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	1000 <5	1000+ &OR5+	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	*	*	3.3	20.2	8024
06&09	.0	*	*	2.7	19.5	7602
12&15	.0	*	.1	3.2	22.2	8717
18&21	.0	*	.1	3.3	25.4	9833
TOT	0	11	60	4292	29813	34176
PCT	.0	*	.2	12.6	87.2	100.0

ANNUAL

PERIOD: (PRIMARY) 1951-1968  
(OVER-ALL) 1864-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
100/104	.0	.0	.0	.0	*	.0	.0	.0	1	*
95/99	.0	.0	*	*	*	*	*	.0	12	*
90/94	*	.0	*	.2	.5	.3	.1	*	332	1.1
85/89	.0	.0	.1	.6	3.8	6.9	1.9	.4	3992	13.6
80/84	*	*	.1	.8	7.6	23.6	17.3	3.5	15463	52.8
75/79	*	*	.1	.5	2.9	12.4	9.2	3.1	8226	28.1
70/74	.0	.0	*	.1	.4	.9	1.6	.7	1115	3.8
65/69	.0	.0	.0	.0	*	.1	.2	.1	130	.4
60/64	.0	.0	.0	.0	*	*	*	*	5	*
TOTAL	6	2	66	632	4499	12937	8856	2278	29276	100.0
PCT	*	*	.2	2.2	15.4	44.2	30.3	7.8		

TABLE 14

N	NE	E	SE	S	SW	W	NW	VAR	CALM	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP							
										0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100
.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	.4	.1	.1	*	*	*	*	.0	.0	.0	.0	.1	.1			
1.3	3.7	4.8	1.8	.7	.3	.2	.2	*	*	*	*	*	.6	.6			
6.1	16.7	16.9	5.3	2.3	1.2	1.0	1.4	.1	1.9	*	*	*	.9	.9			
5.6	10.7	5.8	1.5	.8	.5	.6	1.7	*	.9	*	*	*	.2	.2			
1.5	.7	.3	.1	.1	*	*	.8	.0	.0	*	*	*	.0	.0			
.2	*	*	.0	*	*	*	.1	.0	.0	*	*	*	.0	.0			
*	.0	*	.0	.0	.0	*	.0	.0	.0	*	*	*	.0	.0			
4308	9391	8279	2571	1151	612	392	1253	42	1077								
14.7	32.1	28.3	8.8	3.9	2.1	2.0	4.3	.1	3.7								

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR									
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS	
00603	97	89	86	81	75	73	67	81.0	8647	
06609	90	86	84	80	74	70	63	79.5	9633	
12615	99	90	87	81	72	68	62	79.6	9382	
18621	100	93	90	84	78	75	62	83.2	11407	
TOT	100	89	86	80	73	69	62	80.9	39069	

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR							MEAN	TOTAL OBS
	0-29	30-39	40-49	50-59	60-69	70-79	80-89		
00603	*	.3	3.0	11.2	7.0	1.6	77	6830	
06609	*	.2	1.3	9.5	10.0	2.7	80	6971	
12615	*	.4	2.6	10.2	9.0	2.3	79	7215	
18621	*	1.5	8.5	13.3	4.3	1.1	73	8468	
TOT	6	704	4533	13030	8916	2293	77	29484	

PERIOD: (PRIMARY) 1951-1968  
 (OVER-ALL) 1864-1968

ANNUAL

AREA 003 GUANTANAMO  
 18-20N 74-76W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG  
 VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	93 96	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	*	*	*	*	8	.0	*
11/13	.0	.0	.0	.0	*	*	*	*	.1	57	.0	.2
9/10	.0	.0	.0	*	*	.1	.1	.2	.1	134	.0	.4
7/8	.0	.0	.0	*	*	.1	.4	.3	.1	291	.0	.9
6	.0	.0	.0	.0	.1	.1	.5	.3	*	304	.0	.9
5	.0	.0	.0	*	.1	.2	.8	.3	*	483	.0	1.5
4	.0	.0	.0	*	.1	.8	1.1	.3	.0	718	*	2.2
3	.0	.0	*	*	.3	1.3	1.6	.2	.0	1077	.0	3.3
2	.0	.0	*	*	.6	2.6	2.0	.1	.0	1706	*	5.3
1	.0	.0	*	.1	1.1	3.9	2.4	*	.0	2428	*	7.5
0	.0	*	.0	.1	3.6	7.0	1.8	*	.0	4068	.0	12.6
-1	.0	.0	.0	.2	4.4	7.3	1.4	*	.0	4322	.0	13.4
-2	.0	.0	*	.6	6.4	7.1	.5	.0	.0	4724	*	14.7
-3	.0	.0	*	.8	5.5	5.1	.4	*	.0	3807	*	11.8
-4	.0	*	*	1.4	4.1	2.8	.1	*	.0	2728	.0	8.5
-5	.0	*	*	1.1	2.7	1.5	.1	*	.0	1765	.0	5.5
-6	.0	.0	.1	1.3	1.7	.5	*	.0	.0	1183	*	3.7
-7/-8	.0	*	.4	1.5	1.6	.4	*	.0	.0	1276	*	4.0
-9/-10	.0	*	.6	.8	.5	*	*	.0	.0	660	*	2.0
-11/-13	*	.1	.5	.4	.2	*	.0	.0	.0	390	*	1.2
-14/-16	.0	.1	.1	.1	*	.0	.0	.0	.0	92	.0	.3
-17/-19	.0	*	*	*	.0	.0	.0	.0	.0	18	.0	.1
-20/-22	.0	*	.0	.0	.0	.0	.0	.0	.0	2	.0	*
-23/-25	.0	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	3	97	594	2765	10722	13193	4221	574	67	32241	1432227	
PCT	*	.3	1.8	8.6	33.3	40.9	13.1	1.8	.2	100.0	*100.0	

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

ANNUAL  
TABLE 18

AREA 003 GUANTANAMO  
18-20N 74-76W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						TOTAL	NE					TOTAL	
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37		48+
<1	1.2	3.4	.2	*	.0	.0	388	.6	1.8	.4	*	.0	.0	225
1-2	.3	3.3	1.6	.2	.0	.0	435	.3	4.8	4.2	.5	*	.0	798
3-4	*	1.0	1.5	.2	.0	*	220	.1	3.0	6.5	1.9	*	.0	924
5-6	.0	.2	.6	.1	.0	.0	68	.0	.6	3.9	.8	*	.0	436
7	.0	*	.2	.1	*	.0	32	*	.1	1.4	.6	.0	.0	172
8-9	.0	.0	*	.1	.0	.0	11	.0	*	.3	.3	*	.0	49
10-11	.0	.0	.0	*	*	.0	3	*	.0	.1	.2	*	.0	28
12	.0	*	*	.0	.0	.0	2	.0	.0	*	*	*	.0	5
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	*	.0	.0	2
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	119	638	343	55	3	1	1159	82	831	1362	352	12	0	2639
PCT	1.5	7.9	4.3	.7	*	*	14.4	1.0	10.3	16.9	4.4	.1	.0	32.7

HGT	E					TOTAL	SE					TOTAL		
	1-3	4-10	11-21	22-33	34-37		48+	1-3	4-10	11-21	22-33		34-37	48+
<1	.8	2.6	.5	.0	.0	.0	317	.4	1.3	.1	.0	.0	.0	147
1-2	.5	6.0	4.2	.4	.0	.0	891	.3	2.4	.9	.1	.0	.0	291
3-4	.1	3.3	5.4	.9	*	.0	790	*	1.1	.8	.1	.0	.0	155
5-6	.0	.7	2.7	.5	*	.0	316	*	.2	.5	*	*	.0	59
7	.0	.1	1.2	.3	.0	.0	129	.0	*	.2	.1	*	.0	28
8-9	.0	*	.2	*	.0	.0	19	.0	*	*	.0	.0	.0	4
10-11	.0	.0	*	.1	.0	.0	13	.0	.0	.0	*	.0	.0	1
12	.0	.0	.0	*	.0	.0	2	.0	.0	.0	*	.0	.0	1
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	108	1039	1144	183	3	0	2477	59	399	204	21	4	0	687
PCT	1.3	12.9	14.2	2.3	*	.0	30.7	.7	4.9	2.5	.3	*	.0	8.5

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

ANNUAL  
TABLE 18

AREA 003  
18-20N  
GUANTANAMO  
74-76W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						TOTAL	SW					48+	TOTAL	
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37			
<1	.3	1.0	.1	.0	.0	.0	109	.2	.7	*	.0	.0	.0	.0	72
1-2	.2	1.4	.6	.0	.0	.0	170	*	.6	.3	.0	.0	.0	.0	81
3-4	*	.3	.2	*	.0	.0	49	.0	.2	.1	*	.0	.0	.0	24
5-6	.0	*	*	.0	.0	.0	5	.0	*	*	.0	*	.0	.0	4
7	.0	.0	*	.0	.0	.0	1	.0	*	.0	.0	.0	.0	.0	1
8-9	.0	.0	.0	*	.0	.0	1	.0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	*	.0	.0	1	.0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	37	223	71	5	0	0	336	20	124	36	1	1	0	182	
PCT	.5	2.8	.9	.1	.0	.0	4.2	.2	1.5	.4	*	*	.0	2.3	

HGT	W						TOTAL	NW					48+	TOTAL	GRAND TOTAL	
	1-3	4-10	11-21	22-33	34-37	48+		1-3	4-10	11-21	22-33	34-37				
<1	.2	.6	*	*	.0	.0	67	.8	1.9	.1	.0	.0	.0	.0	221	1546
1-2	.1	.7	.1	*	.0	.0	79	.1	1.2	.6	*	.0	.0	.0	155	2900
3-4	*	.2	.1	.0	.0	.0	24	*	.1	.2	.0	.0	.0	.0	29	2215
5-6	.0	*	*	.0	.0	.0	3	.0	.0	*	.0	.0	.0	.0	3	894
7	.0	.0	*	.0	.0	.0	3	.0	*	.0	.0	.0	.0	.0	1	367
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	84
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	45
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	11
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	3
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	33	120	21	2	0	0	176	69	261	75	4	0	0	409	8065	
PCT	.4	1.5	.3	*	.0	.0	2.2	.9	3.2	.9	*	.0	.0	5.1	100.0	



ANNUAL

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)							
HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	8.1	13.0	1.4	*	.0	.0	1797
1-2	2.1	19.5	12.1	1.2	*	.0	2784
3-4	.3	8.8	14.2	3.0	*	.0	2095
5-6	*	1.7	7.4	1.3	.1	.0	834
7	*	.3	2.9	1.0	*	.0	330
8-9	.0	.1	.5	.4	*	.0	77
10-11	*	.0	.2	.3	.1	.0	41
12	.0	*	*	.1	*	.0	10
13-16	.0	.0	.0	*	.0	.0	1
17-19	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	840	3459	3072	576	22	0	7969
PCT	10.5	43.4	38.5	7.2	.3	.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	3.7	28.0	22.9	6.8	1.7	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5746	2
6-7	.1	1.8	4.1	4.3	2.5	.7	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1248	4
8-9	*	.5	.8	1.2	1.1	.5	.3	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	399	5
10-11	*	.2	.2	.2	.3	.3	.1	*	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	109	5
12-13	.0	.1	.2	*	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	4
>13	.0	*	.1	*	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	5
INDET	13.8	2.0	.2	.1	.1	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1470	0
TOTAL	1591	2962	2567	1135	526	151	71	20	8	3	1	0	0	0	0	0	0	0	0	0	9035	2
PCT	17.6	32.8	28.4	12.6	5.8	1.7	.8	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

TABLE 20

AREA 003 GUANTANAMO  
18-20N 74-76W

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH														
SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.1	.0	.1	*	.0	.2	.1	.0	*	14	*
91/92	.1	.1	.0	*	.0	.4	.2	.2	.2	.1	*	.0	37	.1
89/90	1.0	.4	.1	.1	.2	1.1	2.5	2.2	2.3	2.1	.2	.2	373	1.1
87/88	1.8	1.4	.1	.2	.8	3.2	7.4	12.5	13.2	10.4	2.9	1.0	1589	4.5
85/86	2.3	3.7	1.4	1.7	8.5	18.6	31.7	39.7	47.1	39.7	22.3	3.8	6336	17.9
83/84	7.3	9.0	4.7	12.8	26.6	40.4	41.5	32.6	28.8	36.5	47.5	24.2	8862	25.0
81/82	29.3	27.1	30.3	42.6	39.7	26.3	13.9	11.4	6.6	8.9	21.8	45.6	8945	25.2
79/80	40.5	38.7	42.3	31.4	20.4	9.0	1.6	.9	1.4	1.7	4.1	21.0	6684	18.8
77/78	11.8	16.2	15.3	9.1	2.8	.3	.3	.3	.1	.1	.8	3.3	1964	5.5
75/76	4.7	2.3	3.4	1.3	.5	.2	.1	.1	.0	.1	.1	.5	432	1.2
73/74	1.0	.7	.8	.2	.4	.1	.2	.1	.0	.1	.2	.3	127	.4
71/72	.2	.3	.5	.2	.1	.2	*	.1	.0	*	.0	*	56	.2
69/70	*	.1	.6	.1	.0	.0	.0	.0	.0	.0	.0	*	30	.1
67/68	.1	*	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	13	*
65/66	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	*
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	3062	3327	3683	3251	3123	2811	3055	3066	2725	2854	2547	1961	35465	100.0
MEAN	80.4	80.4	79.9	80.8	81.9	83.2	84.4	84.7	85.0	84.7	83.5	81.7	82.4	

PERIOD: (PRIMARY) 1952-1968  
(OVER-ALL) 1864-1968

AREA 003 GUANTANAMO  
18-20N 74-76W

TABLE 21  
PRESSURE (MB)

MO	AVERAGE BY HOUR (GMT)								MEAN	TOTAL OBS	EXTREMES							
	0000	0300	0600	0900	1200	1500	1800	2100			MAX YEAR	DA	HR	MIN YEAR	DA	HR		
JAN	1016	1016	1016	1015	1017	1018	1017	1015	1016	3184	1025	1959	12	18	999	1956	21	18
FEB	1016	1016	1016	1015	1016	1017	1016	1015	1016	3440	1028	1958	05	00	1001	1959	28	00
MAR	1015	1017	1015	1015	1016	1017	1016	1015	1016	3934	1033	1961	27	06	996	1933	30	09
APR	1014	1016	1015	1014	1016	1017	1015	1014	1015	3397	1032	1960	16	00	978	1968	12	00
MAY	1014	1016	1014	1014	1015	1016	1015	1014	1015	3298	1032	1961	13	06	997	1968	18	00
JUN	1015	1016	1015	1014	1015	1016	1015	1014	1015	2904	1030	1951	01	00	994	1967	26	18
JUL	1015	1016	1015	1015	1016	1016	1016	1015	1016	3232	1033	1960	08	06	1000	1967	01	06
AUG	1014	1016	1015	1014	1015	1016	1015	1014	1015	3370	1031	1961	11	12	1004	1965	20	18
SEP	1013	1014	1013	1012	1013	1014	1013	1012	1013	3066	1032	1960	01	12	1002	1960	16	06
OCT	1012	1013	1013	1011	1013	1013	1012	1011	1012	3073	1021	1954	03	12	998	1954	11	12
NOV	1013	1014	1013	1013	1014	1015	1013	1012	1013	2634	1031	1961	27	00	1001	1956	05	12
DEC	1015	1016	1015	1014	1015	1016	1015	1014	1015	2135	1032	1959	26	12	1001	1958	19	06
ANN	1014	1016	1015	1014	1015	1016	1015	1014	1015	37667								
OBS	7700	885	7409	1420	7845	1508	9117	1783										

PERCENTILES

MO	1%	5%	25%	50%	75%	95%	99%
JAN	1008	1011	1014	1016	1018	1021	1024
FEB	1009	1012	1015	1016	1018	1021	1024
MAR	1008	1011	1014	1016	1018	1021	1024
APR	1008	1012	1014	1016	1018	1021	1023
MAY	1008	1011	1014	1016	1017	1019	1021
JUN	1006	1011	1013	1015	1017	1019	1023
JUL	1010	1013	1015	1016	1017	1019	1024
AUG	1009	1011	1014	1016	1017	1019	1021
SEP	1008	1010	1012	1014	1016	1019	1021
OCT	1005	1009	1012	1014	1015	1017	1019
NOV	1006	1009	1012	1014	1016	1018	1021
DEC	1008	1011	1014	1015	1017	1020	1023

Volume	Area	Name	Boundary (C=Coastline)	
1	1	Argentia	45-47° N	53- 56° W
	2	Bermuda	30-34° N	63- 67° W
	3	Guantanamo	18-20° N	74- 76° W
2	4	Boston	42° N- C	66° W- C
	5	Quonset Point	40-42° N	69- 72° W
	6	New York	40° N- C	72° W- C
	7	Atlantic City	38-40° N	72° W- C
3	8	Norfolk	36-38° N	73° W- C
	9	Cape Hatteras	34-36° N	73° W- C
	10	Charleston	32-34° N	75° W- C
4	11	Jacksonville	29-32° N	78° W- C
	12	Miami	25-29° N	78- 81° W
	13	Key West	23-25° N	79- 83° W
5	14	Fort Myers	25-27° N	81- 84° W
	15	Apalachicola	27° N- C	C- 86° W
	16	Pensacola	27° N- C	86- 89° W
6	17	New Orleans	27° N- C	89- 92° W
	18	Galveston	27° N- C	92- 95° W
	19	Corpus Christi	26° N- C	95° W- C
7	20	Baja	28-31° N	C- 120° W
	21	San Diego 200SW	28-31° N	120-125° W
	22	San Diego	31-34° N	C- 120° W
	23	Santa Rosa	31-34° N	120-125° W
8	24	Point Mugu	34-36° N	C- 125° W
	25	San Francisco	36-38° N	C- 126° W
	26	Point Arena	38-40° N	C- 127° W
9	27	Eureka	40-42° N	C- 127° W
	28	North Bend	42-44° N	C- 127° W
	29	Newport	44-46° N	C- 127° W
10	30	Astoria	46-48° N	C- 127° W
	31	Seattle	48-50° N	C- 129° W