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(12)

SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO)

AUSTRALIAN COASTAL MARINE AREAS

VOLUME 1

AREA 1 - PRINCESS CHARLOTTE BAY
AREA 2 - CAIRNS
AREA 3 - CUMBERLAND ISLANDS
AREA 4 - ROCKHAMPTON
AREA 5 - BRISBANE
AREA 6 - COFFS HARBOUR
AREA 7 - SYDNEY
AREA 8 - CAPE HOWE NE

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PREPARED BY
THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR
THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

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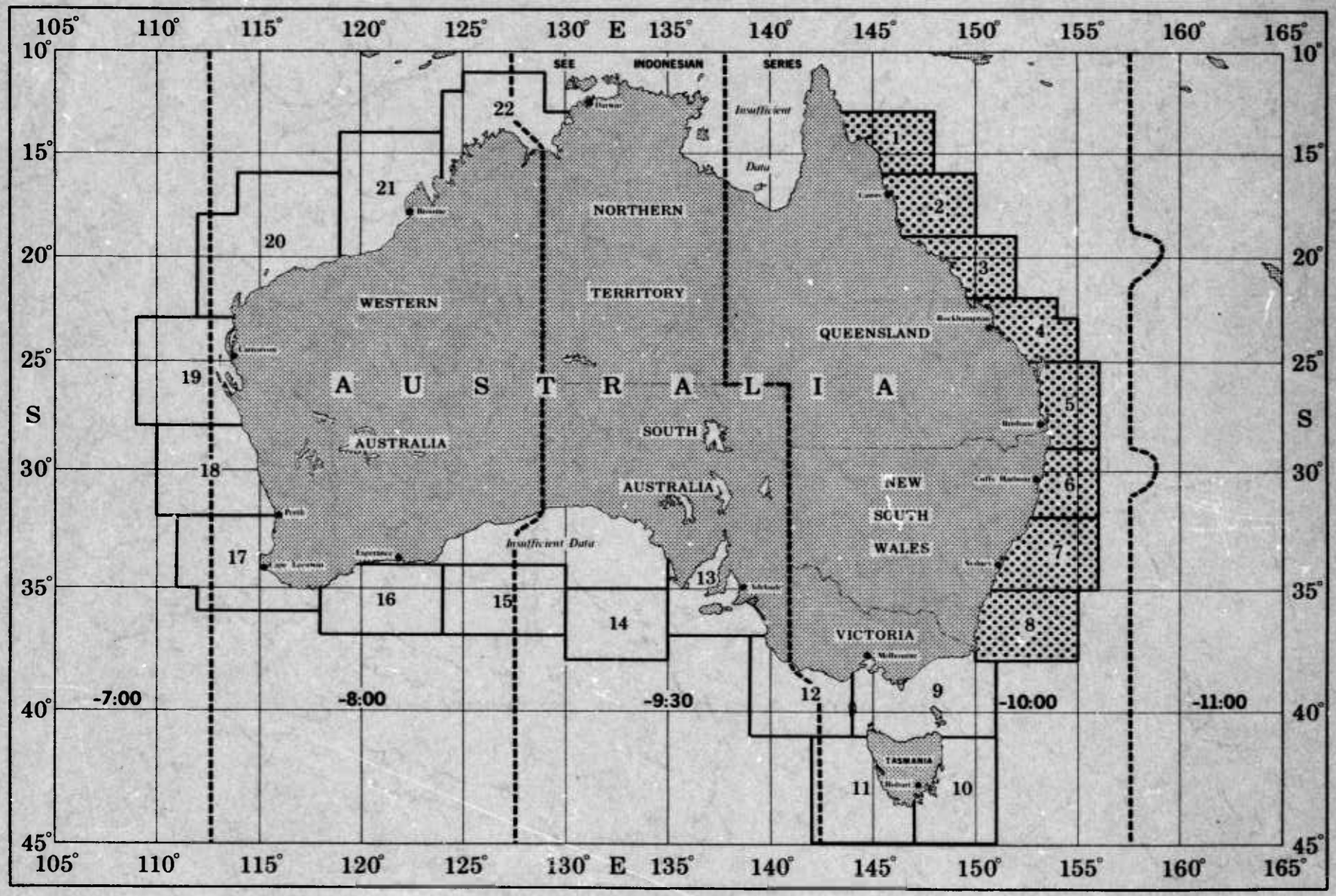
SEPTEMBER 1977



AUSTRALIAN COASTAL MARINE SSMO AREAS AND STANDARD TIME ZONES

Shaded areas are included in this volume

A list of the area names and their central locations appears on the inside back cover

Unclassified

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

This report presents marine climatological data for specific coastal areas in 21 different tables including weather occurrence, wind direction and speed, cloud amount, ceiling height, visibility, precipitation, dry bulb, relative humidity, air-sea temperature difference, sea height and period, sea surface temperature and sea level pressure.

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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO)

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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

The SSMO series of coastal marine summaries is managed and produced by the Naval Weather Service Detachment, Asheville, N. C. for the Director, Naval Oceanography and Meteorology. A list of published SSMO's is contained in the catalogue part of the "Guide to Standard Weather Summaries and Climatic Services", NAVAIR 50-1C-534.

The data summarized in the following tables were obtained from Tape Data Family 11 (TDF-11) Marine Surface Observations. The development and maintenance of TDF-11 was primarily funded by the Naval Weather Service Command. The source of these marine surface observations was punched cards of weather observations taken aboard vessels of varying registry. These observations 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.

Before the tables are prepared, extreme values of selected parameters are scrutinized so that obvious errors can be excluded. 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 the data file 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 selected decks 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.

The geographic position shown on the tables is the central position (centroid) of the observations within the area. This value may fall outside irregular areas.

Annual values are computed on the basis of the sum of the monthlies divided by the number of months.

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.

White Section
Buff Section
DISTRIBUTION/AVAILABILITY CODES
Dist. AVAIL. and/or SPECIAL
A

Table 1 - Percentage Frequency of Weather Occurrence by Wind Direction (8 pts.).

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

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

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.

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.

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 and percentile values.

Note: In this volume, percentage frequencies at specified hours of the day refer to percentages of observations taken at those hours, rather than percentages of observations taken at all hours. Data at adjacent hours are summarized with data at synoptic hours, i.e., data from 02 and 04 GMT are combined with data from 03 GMT.

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Copies of this document are obtainable from the National Technical Information Service (NTIS), Springfield, Virginia 22161.

DIRECTION AND WEATHER CODES

CONVERSION OF WIND AND WAVE DIRECTION TO 8 POINTS

A reduced bias system was employed in converting wind and wave directions to 8 points. This method attaches weighting values to observations which overlap two different 8 point sectors and treats them as "decimal observation counts." These decimal quantities are rounded to whole numbers for presentation as "observational counts" in the tables. Figures 1-4 below show the 8 point system with other systems superimposed.

Note: Because of rounding, sub-total sums of "observation counts" may not equal grand totals.

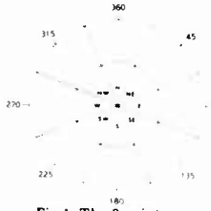

Fig 1. The 8 point direction system.

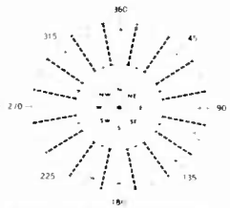

Fig 2. The 16 point direction system superimposed on the 8 point system.

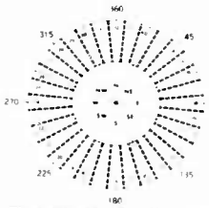

Fig 3. The 32 point direction system superimposed on the 8 point system.

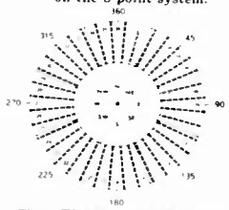

Fig 4. The 36 point direction system superimposed on the 8 point system.

VISIBILITY (VV)

CODE	INTERPRETATION (NAUTICAL MILES)
90-93	VV<1/2
94	1/2≤VV<1
95	1≤VV<2
96	2≤VV<5
97	5≤VV<10
98	10≤VV<25
99	VV≥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
58-59, 60-65, 91-94, (68-69, 95, 97 IF TEMP >40°F)	RAIN
80-82, (83-84 IF TEMP >40°F)	RAIN SHOWERS
50-55, 58-59	DRIZZLE
56-57, 66-67	FREEZING PRECIPITATION
70-75, 85-86, (68-69, 83-84, 95, 97 IF TEMP ≤40°F)	SNOW
76-79	OTHER FROZEN PRECIPITATION
87-90, 93-94, 96, 99	HAIL
13, 17, 19, 29, 95-99	THUNDER LIGHTNING THUNDERSTORM

CODE	INTERPRETATION
10-12, 40-49	FOG (WITHOUT PRECIPITATION)
28	FOG (WITHOUT PRECIPITATION) PAST HOUR
04-05	SMOKE HAZE
06-09, 30-39	SPRAY BLOWING DUST BLOWING SNOW
00-03, 14-16, 18	NO SIGNIFICANT WEATHER AT OB TIME
00-49	NO PRECIPITATION AT OB TIME
50-99	PRECIPITATION AT OB TIME
20-27	PRECIPITATION PAST HOUR

NOTE: The following WMO codes were counted in two weather categories. 58-59 (rain and drizzle); 68-69 (rain and snow); 93-94 (rain and hail), 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 decks 128 and 116)

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	
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	
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

JANUARY

PERIOD: (PRIMARY) 1922-1971
(OVER-ALL) 1883-1971

AREA 0001 PRINCESS CHARLOTTE BAY
14.1S 144.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	11.1	14.1	.0	.0	.0	.0	.0	25.3	.0	4.0	.0	.0	6.1	.0	58.7
NE	5.0	6.0	.0	.0	.0	.0	.0	11.0	.0	.0	.0	.0	.0	.0	89.0
E	12.5	7.0	3.5	.0	.0	.0	.0	23.0	3.1	1.2	1.6	.0	.0	.0	71.2
SE	7.8	16.3	3.4	.0	.0	.0	.0	27.5	5.0	1.6	.0	.0	1.3	.0	65.3
S	8.7	8.7	.0	.0	.0	.0	.0	17.4	.0	5.8	5.8	.0	.0	.0	73.9
SW	.0	.0	12.5	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	87.5
W	10.8	6.2	.0	.0	.0	.0	.0	16.9	.0	.0	.0	.0	.0	.0	83.1
NW	6.7	13.3	4.4	.0	.0	.0	.0	24.4	.0	.0	4.4	.0	6.7	.0	64.4
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	.0	.0	100.0
TOT PCT	8.8	10.8	2.7	.0	.0	.0	.0	22.3	2.3	1.5	1.2	.0	1.5	.0	71.9
TOT OBS:	260														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	6.2	9.2	1.5	.0	.0	.0	.0	16.9	1.5	1.5	.0	.0	1.5	.0	80.0
06609	5.7	11.4	4.5	.0	.0	.0	.0	21.6	.0	1.1	2.3	.0	3.4	.0	71.6
12615	13.0	8.7	2.2	.0	.0	.0	.0	23.9	8.7	2.2	2.2	.0	.0	.0	63.0
18621	13.3	12.0	1.3	.0	.0	.0	.0	26.7	2.7	1.3	.0	.0	.0	.0	70.7
TOT PCT	8.1	10.6	2.6	.0	.0	.0	.0	22.3	2.6	1.5	1.1	.0	1.5	.0	71.9
TOT OBS:	274														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.9	7.6	1.8	.0	.1	.0		11.3	7.4	5.2	13.1	11.1	16.1	4.4	11.4	8.3	10.8
NE	1.4	8.8	1.4	.0	.1	.0		11.7	6.8	14.7	9.2	19.1	12.4	2.9	12.0	9.4	7.7
E	2.6	14.6	3.8	.0	.0	.0		21.1	7.7	29.3	17.0	21.1	21.2	26.5	25.3	21.8	17.5
SE	2.0	12.8	7.4	1.2	.0	.0		23.4	10.3	27.6	26.9	25.5	18.0	42.6	16.9	23.1	24.0
S	1.0	4.4	1.4	.1	.0	.0		6.8	7.9	5.2	12.9	4.5	4.3	5.9	5.1	7.5	7.0
SW	.2	2.2	.2	.0	.0	.0		2.6	6.9	4.3	1.5	1.8	.5	.0	6.3	1.6	4.1
W	.8	4.6	1.4	.0	.1	.0		6.9	8.6	5.2	3.9	5.9	8.6	16.2	2.4	5.9	13.4
NW	2.0	7.6	2.0	.0	.1	.0		11.7	7.7	5.2	11.7	10.9	15.6	1.5	14.5	11.6	10.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.5							4.5	.0	3.4	3.9	.0	3.2	.0	6.0	10.8	5.2
TOT OBS	102	392	121	8	2	0	625		7.9	29	103	110	93	17	83	93	97
TOT PCT	16.3	62.7	19.4	1.3	.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.1	4.7	.4	.0	.1		11.3	7.4	11.4	13.4	10.3	9.6
NE	7.4	3.9	.2	.0	.1		11.7	6.8	10.4	16.0	10.5	8.6
E	8.6	12.0	.5	.0	.0		21.1	7.7	19.7	21.2	25.5	19.6
SE	6.5	13.3	3.3	.3	.0		23.4	10.3	27.1	22.0	21.3	23.6
S	3.0	3.8	.1	.0	.0		6.8	7.9	11.2	4.4	5.3	7.2
SW	1.5	1.0	.1	.0	.0		2.6	6.9	2.1	1.2	5.3	2.9
W	3.4	2.4	1.0	.1	.0		6.9	8.6	4.2	7.1	4.8	9.7
NW	5.6	5.5	.5	.1	.0		11.7	7.7	10.2	13.1	12.3	10.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.5						4.5	.0	3.8	1.5	5.0	7.9
TOT OBS	291	291	39	3	1	625		7.9	132	203	100	190
TOT PCT	46.6	46.6	6.2	.5	.2		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1922-1971
(OVER-ALL) 1883-1971

AREA 0001 PRINCESS CHARLOTTE BAY
14.1S 144.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.8	9.8	62.9	21.2	2.3	.0	.0	8.2	100.0	132
06&09	1.5	15.3	59.6	20.7	2.0	1.0	.0	8.4	100.0	203
12&15	5.0	10.0	67.0	18.0	.0	.0	.0	7.4	100.0	100
18&21	7.9	10.5	63.7	17.4	.5	.0	.0	7.4	100.0	190
TOT	28	74	392	121	8	2	0	7.9		625
PCT	4.5	11.8	62.7	19.4	1.3	.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.5	.0	.0	1.9		4.4
NE	1.9	.0	4.7	1.7		5.8
E	4.4	5.3	6.9	6.7		5.1
SE	5.6	8.3	9.2	12.8		5.4
S	.0	1.9	3.6	4.2		6.5
SW	.0	.0	1.1	2.8		7.7
W	.0	1.1	3.3	2.5		5.9
NW	.0	1.1	1.1	3.1		6.9
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	2.2	.0		6.5
TOT OBS	13	16	29	32	90	5.6
TOT PCT	14.4	17.8	32.2	35.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	3.6	
NE	.0	.0	.0	3.9	1.1	1.1	.0	.0	.0	.0	2.2	
E	1.1	.0	.0	3.6	3.1	1.1	.0	.0	.0	.0	14.4	
SE	1.1	.0	.0	6.9	4.7	1.4	.0	.0	.0	.0	21.7	
S	.0	.0	.0	3.3	.8	.8	.0	.0	.0	.0	4.7	
SW	.0	.0	.0	1.1	.3	.0	.0	.0	1.1	.0	1.4	
W	.0	.0	.0	1.1	.0	1.7	.0	.0	.0	.0	4.2	
NW	.0	.0	.0	.0	1.1	.8	.0	.0	.0	.0	3.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	
TOT OBS	2	0	0	18	10	7	0	0	1	0	52	90
TOT PCT	2.2	.0	.0	20.0	11.1	7.8	.0	.0	1.1	.0	57.8	100.0

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 >50YD	= OR >0
= OR >6500	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
= OR >5000	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
= OR >3500	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
= OR >2000	7.6	9.8	9.8	9.8	9.8	9.8	9.8	9.8
= OR >1000	13.0	19.6	20.7	20.7	20.7	20.7	20.7	20.7
= OR >600	21.7	34.8	39.1	39.1	40.2	40.2	40.2	40.2
= OR >300	21.7	34.8	39.1	39.1	40.2	40.2	40.2	40.2
= OR >150	21.7	34.8	39.1	39.1	40.2	40.2	40.2	40.2
= OR > 0	21.7	37.0	41.3	41.3	42.4	42.4	42.4	42.4
TOTAL	20	34	38	38	39	39	39	39

TOTAL NUMBER OF OBS: 92 PCT FREQ NH <5/8: 57.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
1.0	9.5	19.0	14.3	12.4	7.6	5.7	8.6	20.0	1.9	105

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
1/2<1	PCP	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.0	.4	.4	.4	.0	.0	.0	.0	.0	1.2	
1<2	PCP	.4	.0	.6	.2	.0	.0	.0	.0	.0	.0	1.2	
	NO PCP	.6	.0	.4	.0	.0	.0	.0	.6	.0	.0	1.5	
	TOT %	1.0	.0	1.0	.2	.0	.0	.0	.6	.0	.0	2.7	
2<5	PCP	.0	.0	.7	.5	.0	.4	.4	.0	.0	.0	1.9	
	NO PCP	.0	.4	.0	.0	.2	.2	.0	.0	.0	.0	.8	
	TOT %	.0	.4	.7	.5	.2	.6	.4	.0	.0	.0	2.7	
5<10	PCP	1.3	1.1	3.8	6.9	.8	.0	.7	1.7	.0	.0	16.2	
	NO PCP	4.4	2.8	6.3	9.7	.6	.8	2.3	2.9	.0	.0	29.7	
	TOT %	5.7	3.9	10.0	16.6	1.4	.8	3.0	4.6	.0	.0	45.9	
10+	PCP	.8	.0	.7	.5	.4	.0	.0	.4	.0	.0	2.7	
	NO PCP	2.1	5.4	12.1	12.4	4.3	1.7	2.9	2.7	.0	.8	44.4	
	TOT %	2.9	5.4	12.7	12.8	4.7	1.7	2.9	3.1	.0	.8	47.1	
	TOT OBS												259
	TOT PCT	9.4	9.7	24.8	30.5	6.7	3.1	6.3	8.7	.0	.8	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.2	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
1/2<1	0-3	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.4	
	4-10	.1	.0	.0	.0	.0	.0	.0	.1	.0		.2	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.2	.2	.2	.0	.0	.1	.0	.0	.9	
1<2	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.4	.1	.1	.0	.0	.0	.0		.6	
	11-21	.3	.0	.1	.1	.0	.0	.0	.3	.0		.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	.0	.5	.2	.1	.0	.0	.3	.0	.0	1.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	4-10	.1	.2	.3	.4	.3	.2	.0	.3	.0		1.9	
	11-21	.1	.2	.6	.3	.1	.1	.2	.1	.0		1.7	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.2	.4	.9	.9	.4	.3	.4	.4	.0	.0	4.1	
5<10	0-3	.6	1.0	.5	.3	.3	.0	.2	1.5	.0	.6	5.2	
	4-10	2.6	1.0	4.4	5.3	1.2	.4	2.0	3.2	.0		20.0	
	11-21	.6	.3	1.1	4.3	.3	.1	.5	.5	.0		7.7	
	22+	.0	.0	.0	.9	.0	.0	.0	.0	.0		.9	
	TOT %	3.8	2.3	6.0	10.7	1.8	.5	2.7	5.2	.0	.6	33.7	
10+	0-3	.3	.8	1.1	1.0	.3	.2	.4	.7	.0	3.9	8.6	
	4-10	3.6	6.7	10.1	8.4	3.1	2.0	3.0	4.3	.0		41.0	
	11-21	.4	.4	2.5	3.3	1.3	.1	.8	1.0	.0		9.7	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	4.3	7.6	13.6	12.8	4.7	2.3	4.1	6.0	.0	3.9	59.4	
	TOT OBS												466
	TOT PCT	9.0	10.5	21.3	24.9	7.3	3.1	7.2	12.2	.0	4.5	100.0	

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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
00&03	.0	.0	.0	17.2	10.3	6.9	.0	.0	.0	3.4	37.9	62.1	29
06&09	.0	.0	.0	16.1	9.7	3.2	.0	.0	.0	.0	29.0	71.0	31
12&15	5.9	.0	.0	23.5	11.8	11.8	.0	.0	.0	.0	52.9	47.1	17
18&21	4.8	.0	.0	19.0	9.5	9.5	.0	.0	4.8	.0	47.6	52.4	21
TOT	2	0	0	18	10	7	0	0	1	1	39	59	98
PCT	2.0	.0	.0	18.4	10.2	7.1	.0	.0	1.0	1.0	39.8	60.2	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
00&03	.0	.0	1.0	8.0	24.0	67.0	100
06&09	.6	1.3	2.6	4.5	34.8	56.1	155
12&15	.0	2.6	1.3	1.3	39.0	55.8	77
18&21	.0	.0	1.4	2.7	37.2	58.8	146
TOT	1	4	8	20	163	284	480
PCT	.2	.8	1.7	4.2	34.0	59.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	18.5	22.2	59.3	27
06&09	.0	.0	20.7	10.3	69.0	29
12&15	5.9	11.8	29.4	23.5	47.1	17
18&21	5.3	5.3	26.3	26.3	47.4	19
TOT	2	3	21	18	53	92
PCT	2.2	3.3	22.8	19.6	57.6	100.0

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
90/94	.0	.0	.0	.0	.5	.5	.0	.0	2	1.0
85/89	.0	.0	.0	1.0	2.0	11.2	4.6	1.5	40	20.4
80/84	.0	.0	.0	1.0	2.6	13.8	38.8	7.1	124	63.3
75/79	.0	.0	.0	.0	.0	.0	5.1	10.2	30	15.3
TOTAL	0	0	0	4	10	50	95	37	196	100.0
PCT	.0	.0	.0	2.0	5.1	25.5	48.5	18.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.8	.0	.0	.0	.0	.0	.0	.3	.0	.0
	1.3	2.4	3.3	8.2	2.4	.0	1.5	1.3	.0	.0
	7.5	5.4	14.4	19.0	2.0	.8	5.1	8.0	.0	.0
	.9	.8	3.4	7.8	1.8	.5	.0	.1	.0	.0
	10.5	8.5	21.2	34.9	6.3	1.3	6.6	9.7	.0	1.0

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	89	88	86	83	78	74	73	83.1	130
06&09	91	90	88	83	78	75	73	82.6	206
12&15	87	86	84	82	77	75	75	81.6	101
18&21	88	85	84	81	78	75	74	81.2	198
TOT	91	89	86	82	78	75	73	82.1	635

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	8.3	37.5	41.7	12.5	80	48
06&09	.0	4.0	6.7	28.0	46.7	14.7	80	75
12&15	.0	3.2	3.2	16.1	61.3	16.1	83	31
18&21	.0	.0	.0	14.3	57.1	28.6	85	56
TOT	0	4	10	52	106	38	82	210

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.5	.5	2	.0	.9
5	.0	.0	.5	.9	.5	4	.0	1.9
4	.0	.0	.5	2.8	.0	7	.0	3.3
3	.0	.0	.0	2.3	.9	7	.0	3.3
2	.0	.0	4.2	6.0	.0	22	.0	10.2
1	.0	.5	2.8	1.4	.0	10	.0	4.7
0	.0	1.9	16.7	.5	.0	41	.0	19.1
-1	.5	3.7	9.3	.5	.0	30	.5	13.5
-2	.0	2.8	14.9	.5	.0	39	.5	17.7
-3	.0	4.7	6.0	.0	.0	23	.0	10.7
-4	.0	3.7	3.7	.0	.0	16	.0	7.4
-5	.0	2.8	.0	.0	.0	6	.0	2.8
-6	.0	.9	1.4	.0	.0	5	.0	2.3
-7/-8	.0	.0	.5	.0	.0	1	.0	.5
-9/-10	.0	.5	.0	.0	.0	1	.0	.5
-11/-13	.5	.0	.0	.0	.0	1	.0	.5
TOTAL	2	46	130	33	4	215	2	213
PCT	.9	21.4	60.5	15.3	1.9	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	2.0	.0	.0	.0	.0	2.0
3-4	.0	1.3	1.3	.0	.0	.0	2.6
5-6	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	4.3	2.3	.0	.0	.0	6.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.0	.0	.0	.0	.0	2.0
1-2	.0	3.6	1.3	.0	.0	.0	4.9
3-4	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	5.9	1.3	.0	.0	.0	7.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	2.3	.0	.0	.0	.0	3.6
1-2	.0	5.9	2.3	.0	.0	.0	8.2
3-4	.0	8.9	3.6	.0	.0	.0	12.5
5-6	.0	.0	2.3	.0	.0	.0	2.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.3	17.1	8.2	.0	.0	.0	26.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.3	.0	.0	.0	.0	5.3
1-2	.0	6.9	3.3	.0	.0	.0	10.2
3-4	.0	3.9	10.2	.0	.0	.0	14.1
5-6	.0	1.3	3.3	1.3	.0	.0	5.9
7	.0	.0	.0	1.3	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	17.4	16.8	2.6	.0	.0	36.8

PERIOD: (OVER-ALL) 1943-1971

JANUARY

AREA 0001 PRINCESS CHARLOTTE BAY
14.1S 144.5E

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.9	1.0	.0	.0	.0	4.9
3-4	.0	.0	3.3	.0	.0	.0	3.3
5-6	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	3.9	5.3	.0	.0	.0	9.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.0	.0	.0	.0	1.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	1.3	.0	.0	.0	.0	1.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.3	.0	.0	.0	.0	2.3
1-2	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.0	2.3	.0	.0	.0	.0	3.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.6	1.3	.0	.0	.0	.0	3.0	
1-2	.0	.3	.0	.0	.0	.0	.3	
3-4	.0	.0	1.3	.0	.0	.0	1.3	
5-6	.0	.0	1.6	.0	.0	.0	1.6	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	1.6	1.6	3.0	.0	.0	.0	6.3	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.8	13.8	.0	.0	.0	.0	22.5	
1-2	1.3	23.8	7.5	.0	.0	.0	32.5	
3-4	.0	13.8	18.8	.0	.0	.0	32.5	
5-6	.0	1.3	8.8	1.3	.0	.0	11.3	
7	.0	.0	.0	1.3	.0	.0	1.3	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	10.0	52.5	35.0	2.5	.0	.0	100.0	80

PERIOD: (OVER-ALL) 1949-1971

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	12.6	28.4	17.9	6.3	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	2
6-7	.0	.0	9.5	2.1	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	4
8-9	.0	.0	1.1	.0	2.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
10-11	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
12-13	.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	
UNDET	7.4	4.2	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	1
TOTAL	19	31	29	8	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	95	3
PCT	20.0	32.6	30.5	8.4	7.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1920-1970
(OVER-ALL) 1883-1970

AREA 0001 PRINCESS CHARLOTTE BAY
14.1S 144.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	8.0	10.2	.0	.0	.0	.0	.0	18.2	1.5	2.9	2.9	.0	2.9		.0	71.5
NE	12.3	.0	.0	.0	.0	.0	.0	12.3	.0	7.7	.0	.0	.0		.0	80.0
E	1.8	6.3	.0	.0	.0	.0	.0	8.1	3.8	1.4	2.7	.0	.0		.0	84.2
SE	2.7	6.8	.0	.0	.0	.0	.0	9.5	4.1	.3	4.8	.0	1.4		.0	79.9
S	.0	14.5	.0	.0	.0	.0	.0	14.5	.0	4.3	.0	.0	.0		.0	81.2
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	.0	.0	4.9	.0	.0	.0	.0	4.9	.0	.0	.0	.0	.0		.0	95.1
NW	3.4	15.7	1.4	.0	.0	.0	.0	20.0	1.4	2.8	.0	.0	.0		.0	75.9
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	20.0		.0	80.0
TOT PCT	3.5	7.8	.4	.0	.0	.0	.0	11.6	2.3	1.9	2.3	.0	1.2		.0	80.6
TOT OBS:	258															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.5	4.5	.0	.0	.0	.0	.0	9.1	3.0	.0	1.5	.0	3.0		.0	83.3
06&09	3.4	9.0	.0	.0	.0	.0	.0	12.4	3.4	2.2	3.4	.0	1.1		.0	77.5
12&15	4.7	14.0	.0	.0	.0	.0	.0	18.6	2.3	4.7	2.3	.0	.0		.0	72.1
18&21	5.1	10.1	1.3	.0	.0	.0	.0	16.5	.0	1.3	1.3	.0	.0		.0	81.0
TOT PCT	4.3	9.0	.4	.0	.0	.0	.0	13.7	2.2	1.8	2.2	.0	1.1		.0	79.1
TOT OBS:	277															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.4	9.0	1.9	.0	.0	.0		13.3	6.6	9.5	16.3	19.8	18.5	14.7	6.3	10.5	7.1
NE	1.4	6.4	1.1	.0	.0	.0		8.9	6.3	5.2	9.2	14.8	7.5	7.4	10.7	4.3	7.4
E	2.3	14.3	5.1	.0	.0	.0		21.7	8.1	31.9	18.5	25.3	22.6	16.2	32.1	21.4	11.9
SE	1.7	16.6	6.7	.0	.0	.0		25.0	8.7	25.9	24.2	21.4	24.7	29.4	25.0	26.8	27.6
S	1.4	3.8	1.6	.0	.0	.0		6.8	7.8	.0	5.2	5.2	1.4	23.5	8.9	8.7	11.1
SW	.8	2.1	.0	.0	.0	.0		2.9	5.8	10.3	.0	.0	1.4	5.9	.9	4.3	7.4
W	.4	3.5	.5	.0	.0	.0		4.5	7.3	10.3	1.1	.0	2.7	.0	3.6	5.8	12.8
NW	1.7	8.6	3.0	.2	.0	.0		13.4	8.4	3.4	20.1	11.3	17.1	2.9	12.5	12.3	12.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3							3.3	.0	3.4	5.4	2.2	4.1	.0	.0	5.8	2.3
TOT OBS	79	332	103	1	0	0	515		7.6	29	92	91	73	17	56	69	88
TOT PCT	15.3	64.5	20.0	.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	8.2	4.7	.4	.0	.0		13.3	6.6	14.7	19.2	8.2	8.6
NE	6.3	2.3	.3	.0	.0		8.9	6.3	8.3	11.6	9.9	8.1
E	8.6	12.2	.9	.0	.0		21.7	8.1	21.7	24.1	28.4	16.1
SE	9.4	13.7	1.9	.0	.0		25.0	8.7	24.6	22.9	26.0	27.2
S	2.9	3.8	.2	.0	.0		6.8	7.8	3.9	3.5	12.3	10.0
SW	1.7	1.2	.0	.0	.0		2.9	5.8	2.5	.6	2.1	6.1
W	2.3	2.2	.0	.0	.0		4.5	7.3	3.3	1.2	2.7	9.7
NW	5.1	7.5	.9	.0	.0		13.4	8.4	16.1	13.9	10.3	12.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.3						3.3	.0	5.0	3.0	.0	3.8
TOT OBS	246	245	24	0	0	515		7.6	121	164	73	157
TOT PCT	47.8	47.6	4.7	.0	.0		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1920-1970
(OVER-ALL) 1883-1970

AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.0	17.4	62.0	15.7	.0	.0	.0	6.8	100.0	121
06&09	3.0	9.8	63.4	23.2	.6	.0	.0	7.9	100.0	164
12&15	.0	12.3	61.6	26.0	.0	.0	.0	8.3	100.0	73
18&21	3.8	10.2	68.8	17.2	.0	.0	.0	7.4	100.0	157
TOT	17	62	332	103	1	0	0	7.6		515
PCT	3.3	12.0	64.5	20.0	.2	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.3	.9	10.4	.6		5.3
NE	1.6	.6	4.7	.3		4.6
E	3.5	12.0	10.8	4.7		4.9
SE	2.5	4.1	10.8	2.5		4.9
S	2.5	2.5	2.2	1.3		3.6
SW	2.5	1.3	1.3	1.3		4.0
W	1.3	.0	2.5	1.3		4.7
NW	2.5	.0	1.6	1.9		4.4
VAR	.0	.0	.0	.0		.0
CALM	1.3	.0	1.3	.0		4.0
TOT OBS	15	17	36	11	79	4.7
TOT PCT	19.0	21.5	45.6	13.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.6	1.3	1.3	1.3	.0	.0	.0	.0	8.9	
NE	.0	.0	.0	1.3	1.6	.0	.0	.0	.0	.0	4.4	
E	.0	.0	1.3	.0	.9	1.3	.0	1.3	.0	.0	26.3	
SE	.0	1.3	.0	2.5	1.3	.0	.0	.0	.0	.0	14.9	
S	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	6.0	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	
W	.0	.0	1.3	.0	.0	1.3	.0	.0	.0	.0	2.5	
NW	.0	.0	.6	.0	1.3	.0	.0	.0	.0	.0	4.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	1.3	
TOT OBS	0	1	4	4	7	3	0	1	0	0	59	79
TOT PCT	.0	1.3	5.1	5.1	8.9	3.8	.0	1.3	.0	.0	74.7	100.0

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 >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >3500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >2000	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
= OR >1000	11.3	13.8	13.8	13.8	13.8	13.8	13.8	13.8
= OR >600	15.0	17.5	17.5	18.8	18.8	18.8	18.8	18.8
= OR >300	18.8	22.5	22.5	23.8	23.8	23.8	23.8	23.8
= OR >150	18.8	23.8	23.8	25.0	25.0	25.0	25.0	25.0
= OR > 0	20.0	25.0	25.0	26.3	26.3	26.3	26.3	26.3
TOTAL	16	20	20	21	21	21	21	21

TOTAL NUMBER OF OBS: 80

PCT FREQ NH <5/8: 73.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.7	15.4	22.0	19.8	8.8	8.8	8.8	2.2	5.5	1.1	91

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PERIOD: (PRIMARY) 1920-1970
(OVER-ALL) 1883-1970

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.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	
	NO PCP	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
1<2	PCP	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	1.9	.4	1.4	1.9	.6	.0	.2	2.1	.0	.0	8.6	
	NO PCP	5.1	3.2	8.1	14.0	1.8	1.2	1.2	6.4	.0	.8	41.6	
	TOT %	7.0	3.6	9.4	16.0	2.3	1.2	1.4	8.6	.0	.8	50.2	
10+	PCP	.5	.0	.4	.8	.4	.0	.0	.7	.0	.0	2.7	
	NO PCP	5.4	2.3	11.7	11.8	3.7	2.7	2.6	4.9	.0	1.2	46.3	
	TOT %	5.9	2.3	12.1	12.5	4.1	2.7	2.6	5.5	.0	1.2	49.0	
	TOT OBS												257
	TOT PCT	13.3	6.3	21.5	28.5	6.4	3.9	4.0	14.1	.0	1.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.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	
	4-10	.3	.0	.0	.0	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.3	.3	.0	.0	.0	.0	.0	.0		.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.0	.0	.0	.0	.0	.1	.1	.0		.6	
	11-21	.0	.0	.0	.0	.0	.0	.3	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.0	.0	.0	.0	.0	.4	.1	.0	.0	.8	
5<10	0-3	.3	.7	.4	1.2	.6	.3	.0	.1	.0	1.1	4.7	
	4-10	4.6	2.1	4.9	9.0	1.1	.8	1.1	4.8	.0		28.5	
	11-21	.6	.3	2.5	3.5	1.0	.0	.4	1.5	.0		9.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.3	.0		.3	
	TOT %	5.4	3.1	7.8	13.7	2.6	1.1	1.5	6.8	.0	1.1	43.1	
10+	0-3	1.6	1.2	2.0	1.0	.6	.3	.1	.7	.0	1.9	9.4	
	4-10	4.7	4.0	10.1	8.1	2.2	1.8	2.7	3.3	.0		37.0	
	11-21	1.1	.1	1.5	3.7	1.2	.0	.0	1.3	.0		8.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	7.4	5.2	13.5	12.8	4.1	2.1	2.8	5.3	.0	1.9	55.2	
	TOT OBS												362
	TOT PCT	13.3	8.6	2[illegible].6	26.5	6.8	3.2	4.8	12.2	.0	3.0	100.0	

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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
00&03	.0	.0	3.4	10.3	6.9	.0	.0	3.4	.0	.0	24.1	75.9	29
06&09	.0	3.7	.0	3.7	11.1	3.7	.0	.0	.0	.0	22.2	77.8	27
12&15	.0	.0	12.5	.0	6.3	6.3	.0	.0	.0	.0	25.0	75.0	16
18&21	6.3	.0	6.3	.0	6.3	6.3	.0	.0	.0	.0	25.0	75.0	16
TOT	1	1	4	4	7	3	0	1	0	0	21	67	88
PCT	1.1	1.1	4.5	4.5	8.0	3.4	.0	1.1	.0	.0	23.9	76.1	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
00&03	.0	.0	1.1	.0	34.1	64.8	88
06&09	.0	.8	.0	.8	49.2	49.2	120
12&15	.0	.0	.0	1.9	45.3	52.8	53
18&21	.0	.0	.8	.8	49.2	49.2	120
TOT	0	1	2	3	172	203	381
PCT	.0	.3	.5	.8	45.1	53.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.6	14.3	10.7	75.0	28
06&09	.0	4.2	8.3	16.7	75.0	24
12&15	.0	13.3	13.3	13.3	73.3	15
18&21	7.7	15.4	15.4	15.4	69.2	13
TOT	1	6	10	11	59	80
PCT	1.3	7.5	12.5	13.8	73.8	100.0

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
85/89	.0	.0	.0	2.0	2.5	10.1	4.5	2.0	42	21.2
80/84	.0	.0	.0	.0	5.6	21.7	34.3	10.1	142	71.7
75/79	.0	.0	.0	.0	.0	1.5	2.0	3.5	14	7.1
TOTAL	0	0	0	4	16	66	81	31	198	100.0
PCT	.0	.0	.0	2.0	8.1	33.3	40.9	15.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	2.9	.6	4.4	6.4	.8	.0	1.3	2.8	.0	2.0
	6.7	4.5	17.2	24.1	4.9	4.0	1.6	6.1	.0	.5
	.8	1.0	1.5	.5	1.0	.0	1.3	1.0	.0	.0
	10.4	6.2	23.1	31.1	6.7	4.0	4.2	11.9	.0	2.5

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	90	88	87	83	80	78	76	83.2	119
06&09	89	88	87	83	79	77	75	82.6	162
12&15	87	86	84	81	79	78	78	81.6	72
18&21	90	89	84	81	78	74	73	81.1	157
TOT	90	88	87	82	78	76	75	82.1	510

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	9.6	40.4	38.5	11.5	79	52
06&09	.0	2.7	11.0	38.4	35.6	12.3	79	73
12&15	.0	3.2	3.2	25.8	48.4	19.4	82	31
18&21	.0	1.7	3.3	25.0	41.7	28.3	84	60
TOT	0	4	16	72	86	38	81	216

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.5	.9	.9	.0	5	.0	2.3
6	.0	.0	.9	.0	2	.0	.9
5	.0	2.3	.9	.5	8	.5	3.2
4	.0	.5	2.3	.5	7	.0	3.2
3	.0	.9	1.8	.5	7	.0	3.2
2	.9	6.4	3.7	.0	24	1.4	9.6
1	.0	7.8	5.5	.0	29	.5	12.8
0	1.4	14.6	.9	.0	37	.0	16.9
-1	1.4	11.0	2.3	.0	32	.0	14.6
-2	3.2	13.2	.0	.0	36	.0	16.4
-3	3.7	2.3	.0	.0	13	.0	5.9
-4	2.7	2.3	.0	.0	11	.0	5.0
-5	2.3	.9	.0	.0	7	.0	3.2
-6	.5	.0	.0	.0	1	.0	.5
TOTAL	36	138	42	3	219	5	214
PCT	16.4	63.0	19.2	1.4	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.9	.0	.0	.0	.0	1.9
1-2	1.9	1.4	1.4	.0	.0	.0	4.7
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.9	3.3	1.4	.0	.0	.0	6.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.5	.0	.0	.0	.0	.9
1-2	.0	4.2	.5	.0	.0	.0	4.7
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.5	4.7	.5	.0	.0	.0	5.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	4.7	7.1	.0	.0	.0	.0	11.8
1-2	.0	12.7	.0	.0	.0	.0	12.7
3-4	.0	.0	1.9	.0	.0	.0	1.9
5-6	.0	1.9	1.4	.0	.0	.0	3.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	4.7	21.7	3.3	.0	.0	.0	29.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.4	1.9	.0	.0	.0	.0	4.2
1-2	.0	4.2	7.5	.0	.0	.0	11.8
3-4	.0	3.8	5.7	.0	.0	.0	9.4
5-6	.0	.0	2.4	.0	.0	.0	2.4
7	.0	.0	1.9	.0	.0	.0	1.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	2.4	9.9	17.5	.0	.0	.0	29.7

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.9	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.9	3.8	.0	.0	.0	5.7	1.9	1.9	.0	.0	.0	.0	3.8
3-4	.0	.0	1.9	.0	.0	.0	1.9	.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
TOT PCT	.0	3.8	5.7	.0	.0	.0	9.4	1.9	1.9	.0	.0	.0	.0	3.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	1.9	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	3.3	.0	.0	.0	.0	3.3	.0	4.2	.0	.0	.0	.0	4.2	
3-4	.0	.0	.0	.0	.0	.0	.0	.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	
TOT PCT	.0	5.2	.0	.0	.0	.0	5.2	.0	4.2	.0	.0	.0	.0	4.2	94.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.8	14.8	.0	.0	.0	.0	29.6	
1-2	3.7	33.3	13.0	.0	.0	.0	50.0	
3-4	.0	3.7	9.3	.0	.0	.0	13.0	
5-6	.0	1.9	3.7	.0	.0	.0	5.6	
7	.0	.0	1.9	.0	.0	.0	1.9	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	18.5	53.7	27.8	.0	.0	.0	100.0	54

PERIOD: (OVER-ALL) 1949-1970

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	12.3	49.4	9.9	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	62	2
6-7	.0	2.5	2.5	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	4
8-9	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	11
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.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	
INDET	12.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	0
TOTAL	20	42	10	8	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	81	2
PCT	24.7	51.9	12.3	9.9	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1923-1969
(OVER-ALL) 1882-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.1S 144.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	5.3	.0	.0	.0	.0	.0	5.3	.0	.0	.0	.0	.0		.0	94.7
NE	5.4	.0	.0	.0	.0	.0	.0	5.4	.0	5.4	.0	.0	.0		.0	94.6
E	4.0	7.1	.0	.0	.0	.0	.0	11.1	.0	.0	2.4	.0	.0		.0	86.0
SE	4.7	9.7	.6	.0	.0	.0	.0	15.0	1.9	.3	2.2	.0	2.5		.0	78.4
S	15.5	9.7	.0	.0	.0	.0	.	25.2	.0	1.9	3.9	.0	.0		.0	70.9
SW	13.6	6.9	.0	.0	.0	.0	.0	20.7	13.8	.0	.0	.0	.0		.0	65.5
W	7.8	.0	.0	.0	.0	.0	.0	7.8	.0	.0	.0	.0	.0		.0	92.2
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
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	.0		.0	100.0
TOT PCT	5.3	7.5	.3	.0	.0	.0	.0	13.1	1.2	.6	1.9	.0	1.2		.0	72.6
TOT OBS:	321															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	6.4	5.1	1.3	.0	.0	.0	.0	12.8	1.3	1.3	.0	.0	1.3		.0	84.6
06&09	9.7	8.7	.0	.0	.0	.0	.0	18.4	2.9	.0	1.9	.0	2.9		.0	73.4
12&15	4.8	6.5	.0	.0	.0	.0	.0	11.3	.0	1.6	3.2	.0	.0		.0	85.5
18&21	5.6	8.9	.0	.0	.0	.0	.0	14.4	2.2	.0	2.2	.0	.0		.0	81.1
TOT PCT	6.9	7.5	.3	.0	.0	.0	.0	14.7	1.8	.6	1.8	.0	1.2		.0	80.5
TOT OBS:	333															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	3.7	1.2	.0	.0	.0		5.8	7.6	.0	6.8	9.5	8.3	.0	6.0	3.2	4.3
NE	.6	3.2	.5	.2	.0	.0		4.6	8.2	.0	6.4	7.7	4.4	4.0	3.6	2.4	3.8
E	1.4	13.4	6.5	1.6	.0	.0		22.8	10.2	15.8	23.1	26.8	21.1	30.0	16.9	23.1	24.5
SE	1.3	22.9	19.4	2.8	.0	.0		46.9	11.5	53.3	44.7	42.3	54.4	50.0	51.8	41.3	46.9
S	.3	4.1	1.6	.5	.0	.0		6.5	10.3	7.5	5.1	7.4	5.6	8.0	7.2	1[illegible].4	2.9
SW	.2	1.7	.2	.0	.0	.0		2.1	7.4	6.7	1.5	.0	.0	.0	1.2	6.3	2.9
W	.3	2.3	.6	.0	.0	.0		3.2	7.5	5.8	2.3	2.7	1.7	.0	3.0	2.7	6.7
NW	.5	3.1	.6	.0	.0	.0		4.1	7.7	4.2	6.8	.9	2.2	4.0	5.4	5.8	3.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.9							3.9	.0	6.7	3.4	2.7	2.2	4.0	4.8	4.9	4.8
TOT OBS	62	362	207	34	0	0	665		9.9	30	118	111	90	25	83	103	1[illegible]5
TOT PCT	9.3	54.4	31.1	5.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.9	2.5	.4	.0	.0		5.8	7.6	5.4	9.0	4.6	3.7
NE	2.3	2.0	.2	.2	.0		4.6	8.2	5.1	6.2	3.7	3.1
E	6.5	13.6	2.3	.4	.0		22.8	10.2	21.6	24.3	19.9	23.8
SE	9.3	29.6	7.4	.7	.0		46.9	11.5	46.5	47.8	51.4	44.1
S	2.0	3.6	.9	.0	.0		6.5	10.3	5.6	6.6	7.4	6.6
SW	1.1	.9	.2	.0	.0		2.1	7.4	2.5	.0	.9	4.6
W	1.4	1.8	.0	.0	.0		3.2	7.5	3.0	[illegible].2	2.3	4.7
NW	1.6	2.4	.1	.0	.0		4.1	7.7	6.3	1.5	5.1	4.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.9						3.9	.0	4.1	2.5	4.6	4.8
TOT OBS	206	376	75	8	0	665		9.9	148	201	108	208
TOT PCT	31.0	56.5	11.3	1.2	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1923-1969
(OVER-ALL) 1882-1969

AREA 0001 PRINCESS CHARLOTTE BAY
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	4.1	8.1	48.6	33.1	6.1	.0	.0	10.0	100.0	148
06&09	2.5	4.5	52.2	35.8	5.0	.0	.0	10.5	100.0	201
12&15	4.6	2.8	50.9	37.0	4.6	.0	.0	10.1	100.0	108
18&21	4.8	5.8	62.5	22.1	4.8	.0	.0	9.2	100.0	208
TOT	26	36	362	207	34	0	0	9.9		665
PCT	3.9	5.4	54.4	31.1	5.1	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	1.0	2.9	.0		5.1
NE	1.0	.0	4.8	.0		5.1
E	2.4	4.1	7.7	1.7		4.7
SE	6.3	10.8	21.4	9.1		5.2
S	.0	3.4	6.5	1.7		5.4
SW	.0	1.0	1.0	.2		4.8
W	1.0	.7	1.9	1.7		5.8
NW	1.2	1.2	1.0	.0		4.1
VAR	.0	.0	.0	.0		.0
CALM	1.9	1.9	.0	.0		2.2
TOT OBS	15	25	49	15	104	5.0
TOT PCT	14.4	24.0	47.1	14.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	4.8	
E	.0	.0	.0	2.9	1.9	.0	1.0	.0	.0	.0	10.1	
SE	.0	.0	.0	7.0	7.7	4.8	.0	.0	.0	.0	28.1	
S	.0	.0	.0	.7	1.0	.0	.0	.0	.0	.0	9.9	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	
W	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	4.3	
NW	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	2.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	
TOT OBS	0	0	0	11	12	5	1	1	0	1	73	104
TOT PCT	.0	.0	.0	10.6	11.5	4.8	1.0	1.0	.0	1.0	70.2	100.0

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 >50YD	= OR >0
= OR >6500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >5000	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
= OR >3500	1.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
= OR >2000	5.7	7.6	7.6	7.6	7.6	7.6	7.6	7.6
= OR >1000	13.3	16.2	18.1	19.0	19.0	19.0	19.0	19.0
= OR >600	21.9	26.7	28.6	30.5	30.5	30.5	30.5	30.5
= OR >300	21.9	26.7	28.6	30.5	30.5	30.5	30.5	30.5
= OR >150	21.9	26.7	28.6	30.5	30.5	30.5	30.5	30.5
= OR > 0	21.9	26.7	28.6	30.5	30.5	30.5	30.5	30.5
TOTAL	23	28	30	32	32	32	32	32

TOTAL NUMBER OF OBS: 105 PCT FREQ NH <5/8: 69.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.2	8.4	24.4	11.8	17.6	10.1	5.9	7.6	10.1	.0	119

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PERIOD: (PRIMARY) 1923-1969
(OVER-ALL) 1882-1969

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
1<2	PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.5	.2	.0	.0	.0	.0	.0	.6	
2<5	PCP	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.5	1.5	.2	.0	.0	.0	.0	.0	2.2	
	TOT %	.0	.0	.8	1.8	.2	.0	.0	.0	.0	.0	2.8	
5<10	PCP	.3	.3	1.2	5.5	1.6	.5	.3	.0	.0	.0	9.7	
	NO PCP	2.5	1.2	6.9	19.0	2.0	.6	1.6	.5	.0	.9	35.2	
	TOT %	2.8	1.6	8.1	24.5	3.6	1.1	1.9	.5	.0	.9	44.9	
10+	PCP	.0	.0	.6	1.1	.5	.0	.0	.0	.0	.0	2.2	
	NO PCP	3.0	4.2	10.2	21.6	3.6	1.2	2.1	1.8	.0	1.6	49.2	
	TOT %	3.0	4.2	10.8	22.7	4.0	1.2	2.1	1.8	.0	1.6	51.4	
	TOT OBS												321
	TOT PCT	5.8	5.8	19.7	49.7	8.0	2.3	4.0	2.3	.0	2.5	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.1	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.1	.3	.0	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.3	.0	.0	.0	.0	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.3	.0	.0	.0	.0	.0		.4	
	11-21	.0	.0	.0	.3	.1	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.6	.1	.0	.0	.0	.0	.0	.8	
2<5	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.3	.7	.0	.0	.0	.0	.0		.9	
	11-21	.0	.0	.3	.7	.0	.0	.0	.0	.0		.9	
	22+	.0	.0	.0	.2	.1	.0	.0	.0	.0		.4	
	TOT %	.0	.0	.8	1.6	.1	.0	.0	.0	.0	.0	2.4	
5<10	0-3	.6	.1	.6	1.1	.1	.0	.0	.0	.0	.8	3.2	
	4-10	.9	.8	4.8	7.9	2.2	.7	.8	.3	.0		18.2	
	11-21	.6	.1	1.6	7.0	.4	.0	.4	.0	.0		10.0	
	22+	.0	.0	.0	1.7	.0	.0	.0	.0	.0		1.7	
	TOT %	2.1	.9	7.0	17.7	2.6	.7	1.1	.3	.0	.8	33.1	
10+	0-3	.3	.6	.5	.3	.0	.0	.3	.2	.0	2.3	4.3	
	4-10	2.9	2.7	9.4	14.1	2.3	.8	1.7	2.2	.0		36.1	
	11-21	.7	.5	4.3	13.4	1.6	.3	.2	.6	.0		21.6	
	22+	.0	.0	.3	.6	.3	.0	.0	.0	.0		1.1	
	TOT %	3.9	3.8	14.4	28.4	4.1	1.1	2.2	3.0	.0	2.3	63.2	
	TOT OBS												532
	TOT PCT	6.0	4.7	22.4	48.6	7.0	1.7	3.3	3.2	.0	3.0	100.0	

MARCH

PERIOD: (PRIMARY) 1923-1969
(OVER-ALL) 1882-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.4E

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	300 590	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	.0	9.4	12.5	6.3	3.1	3.1	.0	.0	34.4	65.6	32
06&09	.0	.0	.0	11.1	13.9	2.8	.0	.0	.0	2.8	30.6	69.4	36
12&15	.0	.0	.0	12.0	8.0	.0	.0	.0	.0	.0	20.0	80.0	25
18&21	.0	.0	.0	11.1	5.6	11.1	.0	.0	.0	.0	27.8	72.2	18
TOT	0	0	0	12	12	5	1	1	0	1	32	79	111
PCT	.0	.0	.0	10.8	10.8	4.5	.9	.9	.0	.9	28.8	71.2	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
00&03	.0	.0	.8	2.5	31.1	65.5	119
06&09	.0	1.2	.6	3.6	35.9	58.7	167
12&15	.0	.0	3.3	1.1	30.8	64.8	91
18&21	.6	.0	.0	1.8	35.3	62.3	167
TOT	1	2	5	13	184	339	544
PCT	.2	.4	.9	2.4	33.8	62.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	16.1	22.6	61.3	31
06&09	.0	.0	14.7	17.6	67.6	34
12&15	.0	.0	16.7	4.2	79.2	24
18&21	.0	.0	12.5	18.8	68.8	16
TOT	0	0	16	17	72	105
PCT	.0	.0	15.2	16.2	68.6	100.0

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
90/94	.0	.0	.0	.0	.4	.0	.0	.0	1	.4
85/89	.0	.0	1.3	.0	1.8	4.4	2.6	.4	24	10.5
80/84	.0	.0	.0	.4	4.4	30.7	31.6	11.0	178	78.1
75/79	.0	.0	.0	.0	.0	1.8	3.5	5.3	24	10.5
70/74	.0	.0	.0	.0	.0	.0	.0	.4	1	.4
TOTAL	0	0	3	1	15	84	86	39	228	100.0
PCT	.0	.0	1.3	.4	6.6	36.8	37.7	17.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0
	1.8	.0	3.0	4.3	.2	.0	.4	.0	.0	.9
	2.1	2.4	17.2	45.8	6.0	1.0	2.0	.7	.0	.9
	.0	.9	1.8	3.4	2.5	1.5	.3	.1	.0	.0
	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
	3.8	3.3	22.1	54.2	8.8	2.5	2.7	.8	.0	1.8

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	90	87	82	77	75	74	82.3	144
06&09	95	89	86	82	78	76	75	82.1	199
12&15	86	85	84	81	78	77	77	81.3	110
18&21	86	84	83	81	77	76	75	80.5	206
TOT	95	88	86	81	77	76	74	81.5	659

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	12.2	40.8	26.5	20.4	80	49
06&09	.0	3.8	9.0	42.3	33.3	11.5	78	78
12&15	.0	2.3	7.0	39.5	32.6	18.6	79	43
18&21	.0	.0	1.4	23.2	50.7	24.6	84	69
TOT	0	4	17	86	88	44	81	239

MARCH

PERIOD: (PRIMARY) 1923-1969
(OVER-ALL) 1882-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.1S 144.4E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.4	.0	1	.0	.4
6	.0	.0	.0	.4	.4	2	.0	.8
5	.0	.0	1.1	1.1	.4	7	.0	2.6
4	.0	.0	1.9	1.1	.0	8	.0	3.0
3	.0	.8	1.5	1.9	.0	11	.0	4.2
2	.0	.8	6.8	.8	.0	22	.4	7.9
1	.0	.0	10.6	1.1	.0	31	.4	11.3
0	.0	1.5	22.3	3.4	.0	72	.8	26.4
-1	.0	3.4	7.9	.0	.0	30	.4	10.9
-2	.0	1.9	14.8	.0	.0	39	.4	14.3
-3	.0	4.9	2.3	.0	.0	19	.0	7.2
-4	.0	2.3	1.1	.0	.0	9	.0	3.4
-5	.8	1.5	.8	.0	.0	8	.0	3.0
-6	.0	1.1	.0	.0	.0	3	.0	1.1
-7/-8	.4	.8	.0	.0	.0	3	.0	1.1
TOTAL	3	50	183	27	2	265	6	259
PCT	1.1	18.9	69.1	10.2	.8	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	.0	.0	.0	.0	.0	1.4
1-2	.0	1.4	.0	.0	.0	.0	1.4
3-4	.0	.0	1.4	.0	.0	.0	1.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.4	1.4	1.4	.0	.0	.0	4.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	5.4	3.9	.0	.0	.0	9.3
3-4	.0	1.4	6.1	.0	.0	.0	7.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	7.9	10.0	.0	.0	.0	17.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	8.2	14.6	.0	.0	.0	22.9
3-4	.0	4.3	23.6	.0	.0	.0	27.9
5-6	.0	1.4	2.1	.0	.0	.0	3.6
7	.0	.0	2.9	.0	.0	.0	2.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	14.3	43.2	.0	.0	.0	57.5

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	2.1	1.4	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.4	6.1	1.4	.0	.0	8.9	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	2.1	.0	.0	.0	2.1	.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
TOT PCT	.0	3.6	9.6	1.4	.0	.0	14.6	.0	1.8	.0	.0	.0	.0	1.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.1	.0	.0	.0	.0	1.1	.0	.4	.0	.0	.0	.0	.4	
3-4	.0	2.5	.0	.0	.0	.0	2.5	.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	
TOT PCT	.0	3.6	.0	.0	.0	.0	3.6	.0	.4	.0	.0	.0	.0	.4	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.4	2.9	.0	.0	.0	.0	4.3	
1-2	.0	18.6	20.0	.0	.0	.0	38.6	
3-4	.0	10.0	37.1	1.4	.0	.0	48.6	
5-6	.0	1.4	4.3	.0	.0	.0	5.7	
7	.0	.0	2.9	.0	.0	.0	2.9	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
								70
TOT PCT	1.4	32.9	64.3	1.4	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1969

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	30.3	32.3	2.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	3
6-7	.0	1.0	3.0	7.1	6.1	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	5
8-9	.0	.0	2.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.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	
INDET	6.1	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	1
TOTAL	7	33	37	12	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	99	3
PCT	7.1	33.3	37.4	12.1	9.1	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1920-1969
(OVER-ALL) 1882-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.1S 144.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0		83.3
NE	.0	35.3	.0	.0	.0	.0	.0	35.3	.0	.0	.0	.0	.0	.0		64.7
E	9.3	3.1	.0	.0	.0	.0	.0	12.4	1.6	2.1	2.1	.0	.0	.0		83.9
SE	5.5	8.9	1.6	.0	.0	.0	.0	15.9	.3	1.0	3.7	.0	.5	.0		79.0
S	.0	7.8	2.9	.0	.0	.0	.0	10.8	2.9	.0	.0	.0	.0	.0		86.3
SW	.0	.0	4.8	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0		95.2
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
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	.0	.0		100.0
TOT PCT	5.2	7.6	1.4	.0	.0	.0	.0	14.2	1.0	1.0	2.8	.0	.3	.0		81.6
TOT OBS:	288															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	4.8	3.2	1.6	.0	.0	.0	.0	9.7	1.6	.0	.0	.0	.0	.0		88.7
06609	3.4	11.5	1.1	.0	.0	.0	.0	16.1	1.1	.0	4.6	.0	.0	.0		78.2
12615	1.7	5.1	.0	.0	.0	.0	.0	6.8	1.7	.0	3.4	.0	.0	.0		88.1
18621	8.6	9.7	2.2	.0	.0	.0	.0	20.4	.0	3.2	2.2	.0	1.1	.0		76.3
TOT PCT	5.0	8.0	1.3	.0	.0	.0	.0	14.3	1.0	1.0	2.7	.0	.3	.0		81.7
TOT OBS:	401															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	1.3	.0	.0	.0	.0		2.0	5.1	.0	.0	2.1	3.6	.0	4.9	.0	3.3
NE	.3	1.7	.2	.1	.0	.0		2.3	7.8	.0	1.5	2.1	4.2	1.4	4.3	1.0	2.2
E	2.0	8.4	7.5	.4	.0	.0		18.4	9.8	17.0	20.1	21.3	20.5	19.4	15.9	19.3	13.2
SE	1.3	25.8	28.3	3.5	.0	.0		58.9	11.8	67.0	58.3	58.9	59.6	66.7	61.0	56.7	55.5
S	.8	5.3	3.6	.7	.0	.0		10.5	10.2	15.9	9.8	7.1	10.2	12.5	10.4	9.3	14.8
SW	.4	1.1	.3	.0	.0	.0		1.9	6.6	.0	.5	2.1	.0	.0	1.2	4.4	3.8
W	.7	.9	.0	.0	.0	.0		1.6	4.1	.0	2.9	.0	.0	.0	.0	2.1	4.9
NW	.3	.7	.2	.0	.0	.0		1.1	5.5	.0	2.0	1.1	.6	.0	.0	2.1	1.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2							3.2	.0	.0	4.9	5.3	1.2	.0	2.4	5.2	1.1
TOT OBS	58	267	237	28	0	0	590		10.4	22	102	95	83	18	82	97	91
TOT PCT	9.8	45.3	40.2	4.7	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)							HOUR (GM)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.4	.6	.0	.0	.0		2.0	5.1	.0	2.8	4.0	1.6
NE	1.2	.8	.2	.1	.0		2.3	7.8	1.2	3.1	3.8	1.6
E	6.8	9.4	2.1	.1	.0		18.4	9.8	19.6	20.9	16.5	16.4
SE	11.6	35.5	10.8	1.0	.0		58.9	11.8	59.9	59.3	62.0	56.1
S	3.4	5.8	1.3	.0	.0		10.5	10.2	10.9	8.6	10.8	12.0
SW	1.4	.4	.2	.0	.0		1.9	6.6	.4	1.1	1.0	4.1
W	1.4	.2	.0	.0	.0		1.6	4.1	2.4	.0	.0	3.5
NW	.9	.2	.0	.0	.0		1.1	5.5	1.6	.8	.0	1.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.2						3.2	.0	4.0	3.4	2.0	3.2
TOT OBS	195	312	86	7	0	590		10.4	124	178	100	188
TOT PCT	31.4	52.9	14.6	1.2	.0		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1920-1969
(OVER-ALL) 1882-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.1S 144.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.0	6.5	40.3	43.5	5.6	.0	.0	10.8	100.0	124
06&09	3.4	5.6	42.7	43.8	4.5	.0	.0	10.5	100.0	178
12&15	2.0	5.0	45.0	43.0	5.0	.0	.0	11.1	100.0	100
18&21	3.2	8.5	51.1	33.0	4.3	.0	.0	9.6	100.0	188
TOT	19	39	267	237	28	0	0	10.4		590
PCT	3.2	6.6	45.3	40.2	4.7	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	1.5		8.0
NE	.0	.0	.4	.0		7.0
E	4.1	4.1	10.8	4.9		5.1
SE	18.7	13.1	22.4	5.6		3.8
S	2.6	3.7	5.2	1.5		4.5
SW	.0	.0	1.5	.0		5.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	17	14	27	9	67	4.3
TOT PCT	25.4	20.9	40.3	13.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
E	.0	.0	.0	2.2	3.0	2.6	.0	1.5	.0	.0	14.6	
SE	.0	.0	.0	2.2	11.9	3.7	1.9	.0	.0	.0	39.9	
S	.0	.0	.0	.0	3.0	1.1	1.1	.0	.0	.0	7.8	
SW	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	0	3	13	5	2	1	0	0	43	67
TOT PCT	.0	.0	.0	4.5	19.4	7.5	3.0	1.5	.0	.0	64.2	100.0

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 >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >3500	3.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5
= OR >2000	9.0	11.9	11.9	11.9	11.9	11.9	11.9	11.9
= OR >1000	23.9	29.9	31.3	31.3	31.3	31.3	31.3	31.3
= OR >600	26.9	32.8	35.8	35.8	35.8	35.8	35.8	35.8
= OR >300	26.9	32.8	35.8	35.8	35.8	35.8	35.8	35.8
= OR >150	26.9	32.8	35.8	35.8	35.8	35.8	35.8	35.8
= OR > 0	26.9	32.8	35.8	35.8	35.8	35.8	35.8	35.8
TOTAL	18	22	24	24	24	24	24	24

TOTAL NUMBER OF OBS: 67

PCT FREQ NH <5/8: 64.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
11.4	11.4	13.9	22.8	7.6	15.2	7.6	5.1	5.1	.0	79

APRIL

PERIOD: (PRIMARY) 1920-1969
(OVER-ALL) 1887-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.1S 144.3E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.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	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.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	
	NO PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
2<5	PCP	.0	.0	.7	1.0	.0	.0	.0	.0	.0	.0	1.7	
	NO PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.7	1.4	.0	.0	.0	.0	.0	.0	2.1	
5<10	PCP	.0	.5	1.4	9.2	.7	.0	.0	.0	.0	.0	11.8	
	NO PCP	.9	.5	7.2	30.4	4.1	1.0	.7	1.0	.0	.3	46.2	
	TOT %	.9	1.0	8.6	39.6	4.8	1.0	.7	1.0	.0	.3	58.0	
10+	PCP	.0	.0	.0	.3	.3	.1	.0	.0	.0	.0	.7	
	NO PCP	1.2	.4	7.5	24.7	3.8	.7	.2	.0	.0	.3	38.9	
	TOT %	1.2	.4	7.5	25.1	4.1	.8	.2	.0	.0	.3	39.6	
	TOT OBS												288
	TOT PCT	2.1	1.5	16.8	66.4	8.9	1.8	.9	1.0	.0	.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.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	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
2<5	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.5	.8	.1	.0	.0	.0	.0		1.4	
	22+	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.0	.7	1.1	.1	.2	.0	.0	.0	.0	2.1	
5<10	0-3	.4	.1	.2	.7	.2	.2	.0	.0	.0	.2	2.1	
	4-10	.2	.6	3.1	12.8	1.5	.2	.5	.5	.0		19.5	
	11-21	.0	.0	2.7	13.5	1.8	.2	.0	.2	.0		18.5	
	22+	.0	.0	.1	2.1	.1	.0	.0	.0	.0		2.4	
	TOT %	.6	.7	6.1	29.2	3.7	.7	.5	.7	.0	.2	42.5	
10+	0-3	.4	.2	1.5	1.1	1.0	.1	.2	.2	.0	1.7	6.4	
	4-10	1.1	.8	5.5	12.9	3.6	.4	.1	.0	.0		24.5	
	11-21	.0	.0	4.7	16.2	1.5	.2	.0	.0	.0		22.6	
	22+	.0	.0	.1	.9	.4	.0	.0	.0	.0		1.4	
	TOT %	1.4	1.0	11.9	31.1	6.5	.8	.4	.2	.0	1.7	54.9	
	TOT OBS												421
	TOT PCT	2.0	1.7	18.7	61.7	10.5	1.7	.8	1.0	.0	1.9	100.0	

PERIOD: (PRIMARY) 1920-1969
(OVER-ALL) 1882-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.3E

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
00&03	.0	.0	.0	4.8	33.3	9.5	4.8	.0	.0	.0	52.4	47.6	21
06&09	.0	.0	.0	4.8	9.5	9.5	.0	.0	.0	.0	23.8	76.2	21
12&15	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	16.7	83.3	18
18&21	.0	.0	.0	5.9	5.9	5.9	5.9	5.9	.0	.0	29.4	70.6	17
TOT	0	0	0	3	13	5	2	1	0	0	24	53	77
PCT	.0	.0	.0	3.9	16.9	6.5	2.6	1.3	.0	.0	31.2	68.8	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
00&03	.0	.0	.0	2.3	34.9	62.8	86
06&09	.0	.0	.0	4.7	45.3	50.0	128
12&15	.0	.0	.0	1.3	44.9	53.8	78
18&21	.7	.0	.7	.0	43.7	54.9	142
TOT	1	0	1	9	185	238	434
PCT	.2	.0	.2	2.1	42.6	54.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	10.5	47.4	42.1	19
06&09	.0	.0	5.9	23.5	70.6	17
12&15	.0	.0	.0	18.8	81.3	16
18&21	.0	.0	6.7	26.7	66.7	15
TOT	0	0	4	20	43	67
PCT	.0	.0	6.0	29.9	64.2	100.0

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
95/99	.0	.0	.0	.0	.0	.4	.0	.0	1	.4
90/94	.0	.0	.0	.0	.4	.0	.0	.0	1	.4
85/89	.0	.0	.0	.4	.4	1.3	.4	.0	6	2.6
80/84	.0	.0	.0	.4	7.5	41.1	18.5	7.9	126	55.5
75/79	.0	.0	.0	.9	.9	12.8	15.4	10.1	91	40.1
70/74	.0	.0	.0	.4	.0	.0	.4	.0	2	.9
TOTAL	0	0	0	5	21	81	79	41	227	100.0
PCT	.0	.0	.0	2.2	9.3	35.7	34.8	18.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0
.9	.0	11.9	36.0	4.5	.9	.4	.9	.0	.0
.7	1.0	4.3	28.6	3.7	.9	.0	.4	.0	.4
.0	.0	.0	.4	.3	.1	.0	.0	.0	.0
1.5	1.0	16.6	68.2	8.6	1.9	.4	1.3	.0	.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	96	91	85	81	77	75	74	81.4	122
06&09	90	85	84	80	76	74	71	80.3	179
12&15	83	82	82	79	76	74	74	79.3	103
18&21	85	83	82	79	75	71	70	78.8	189
TOT	96	86	84	80	76	74	70	79.9	593

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	4.3	10.9	43.5	23.9	17.4	79	46
06&09	.0	2.7	16.2	32.4	27.0	21.6	79	74
12&15	.0	2.4	.0	45.2	40.5	11.9	80	42
18&21	.0	.0	5.7	25.7	47.1	21.4	83	70
TOT	0	5	21	81	81	44	81	232

APRIL

PERIOD: (PRIMARY) 1920-1969
(OVER-ALL) 1882-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.1S 144.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.4	1	.0	.4
6	.0	.0	.4	.8	.0	3	.0	1.2
5	.0	.0	1.2	.8	.0	5	.0	2.0
4	.0	.4	3.7	.4	.0	11	.0	4.5
3	.0	.8	3.3	.8	.0	12	.4	4.5
2	.0	6.6	8.2	.8	.0	38	.4	15.2
1	.4	7.4	3.3	.0	.0	27	.0	11.1
0	.0	12.7	11.1	.0	.0	58	2.0	21.7
-1	.0	11.1	4.1	.0	.0	37	.0	15.2
-2	.4	7.8	2.9	.0	.0	27	.0	11.1
-3	.8	2.5	.8	.0	.0	10	.0	4.1
-4	.0	4.1	.0	.0	.0	10	.0	4.1
-5	.8	.8	.0	.0	.0	4	.0	1.6
-6	.0	.4	.0	.0	.0	1	.0	.4
TOTAL	6	133	95	9	1	244	7	237
PCT	2.5	54.5	38.9	3.7	.4	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.0	.0	.0	.0	.0	2.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	2.0	.0	.0	.0	.0	2.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.0	.0	.0	.0	.0	.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.5	5.9	.0	.0	.0	7.4
3-4	.0	3.4	8.3	.0	.0	.0	11.8
5-6	.0	.0	4.4	.0	.0	.0	4.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	4.9	18.6	.0	.0	.0	23.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	2.0	.0	.0	.0	2.0
1-2	.0	4.4	5.9	.0	.0	.0	10.3
3-4	.0	2.5	21.1	.0	.0	.0	23.5
5-6	.0	.0	19.6	.0	.0	.0	19.6
7	.0	.0	2.0	2.5	.0	.0	4.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	6.9	50.5	2.5	.0	.0	59.8

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.5	.0	.0	.0	.0	1.5	.0	.5	.0	.0	.0	.0	.5
3-4	.0	5.9	2.0	.0	.0	.0	7.8	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	2.0
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
TOT PCT	.0	7.4	3.4	1.5	.0	.0	12.3	.0	.5	2.0	.0	.0	.0	2.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.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	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	2.0	2.0	.0	.0	.0	3.9	
1-2	.0	7.8	11.8	.0	.0	.0	19.6	
3-4	.0	11.8	31.4	.0	.0	.0	43.1	
5-6	.0	.0	25.5	.0	.0	.0	25.5	
7	.0	.0	2.0	3.9	.0	.0	5.9	
8-9	.0	.0	2.0	.0	.0	.0	2.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
								51
TOT PCT	.0	21.6	74.5	3.9	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1969

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	32.5	28.6	11.7	1.3	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	3
6-7	.0	.0	6.5	1.3	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	4
8-9	.0	.0	.0	5.2	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.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	
INDFT	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	0
TOTAL	5	25	27	14	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	77	3
PCT	6.5	32.5	35.1	18.2	3.9	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1914-1969
(OVER-ALL) 1881-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.0S 144.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	98.0
SE	1.6	4.7	.0	.0	.0	.0	.0	6.2	1.4	.3	.0	.0	1.6	.0	90.5
S	1.4	6.8	.0	.0	.0	.0	.0	8.2	.0	.0	.0	.0	.0	.0	91.8
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
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	.0	.0	100.0
TOT PCT	1.2	3.9	.0	.0	.0	.0	.0	5.1	1.0	.2	.0	.0	1.5	.0	92.3
TOT OBS:	413														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00&03	2.2	3.3	1.1	.0	.0	.0	.0	6.6	1.1	.0	.0	.0	3.3	.0	89.0
06&09	.8	3.8	.0	.0	.0	.0	.0	4.6	.8	.0	.0	.0	.8	.0	93.8
12&15	1.4	1.4	.0	.0	.0	.0	.0	2.8	1.4	.0	.0	.0	1.4	.0	94.4
18&21	.8	5.5	.0	.0	.0	.0	.0	6.3	.8	.8	.0	.0	.8	.0	91.3
TOT PCT	1.2	3.8	.2	.0	.0	.0	.0	5.2	1.0	.2	.0	.0	1.4	.0	92.1
TOT OBS:	420														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	.1	.0	.0	.0	.0		.6	2.6	.0	.6	1.5	.5	.0	.5	.8	.0
NE	.3	.7	.1	.0	.0	.0		1.1	6.3	.7	.8	1.1	1.0	.0	1.0	2.8	.0
E	.9	7.9	10.1	.5	.0	.0		19.3	11.2	14.6	19.7	22.9	26.5	18.8	18.9	11.2	19.2
SE	1.0	27.6	33.0	3.9	.0	.0		65.4	12.3	68.1	62.3	62.8	63.3	66.3	68.4	70.2	64.7
S	.5	5.8	3.6	.8	.0	.0		10.6	11.4	16.7	11.5	9.4	6.8	10.0	10.2	12.2	11.6
SW	.4	.3	.1	.0	.0	.0		.8	4.5	.0	2.0	.0	.0	.0	.0	.4	2.5
W	.5	.1	.0	.0	.0	.0		.6	2.3	.0	2.0	.4	.5	.0	.0	.0	.8
NW	.2	.1	.0	.0	.0	.0		.4	3.0	.0	.2	.4	.5	.0	.0	.8	.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2							1.2	.0	.0	.8	1.5	1.0	5.0	1.0	1.6	.8
TOT OBS	41	326	357	39	0	0	763		11.6	36	122	133	103	20	103	125	121
TOT PCT	5.4	42.7	46.8	5.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.6	.0	.0	.0	.0		.6	2.6	.5	1.1	.4	.4
NE	.7	.4	.0	.0	.0		1.1	6.3	.8	1.1	.8	1.4
E	3.4	13.4	2.4	.2	.0		19.3	11.2	18.5	24.5	18.9	15.1
SE	9.0	40.7	15.1	.6	.0		65.4	12.3	63.6	63.0	68.1	67.5
S	1.6	6.9	2.0	.1	.0		10.6	11.4	12.7	8.3	10.2	11.9
SW	.7	.0	.1	.0	.0		.8	4.5	1.6	.0	.0	1.4
W	.6	.0	.0	.0	.0		.6	2.3	1.6	.4	.0	.4
NW	.4	.0	.0	.0	.0		.4	3.0	.2	.4	.0	.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.2						1.2	.0	.6	1.3	1.6	1.2
TOT OBS	139	468	149	7	0	763		11.6	158	236	123	246
TOT PCT	18.2	61.3	19.5	.9	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1914-1969
(OVER-ALL) 1881-1969

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.6	7.6	37.3	48.1	6.3	.0	.0	11.7	100.0	158
06&09	1.3	3.8	39.0	48.7	7.2	.0	.0	12.1	100.0	236
12&15	1.6	2.4	43.1	49.6	3.3	.0	.0	11.5	100.0	123
18&21	1.2	3.3	49.6	42.7	3.3	.0	.0	11.0	100.0	246
TOT	9	32	326	357	39	0	0	11.6		763
PCT	1.2	4.2	42.7	46.8	5.1	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.0	1.3	.0	.0		4.0
E	7.6	5.3	4.8	1.0		3.6
SE	18.2	22.2	18.9	7.1		3.9
S	4.5	2.5	5.6	.0		3.7
SW	.0	.0	.0	.0		.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	1.0	.0	.0		3.0
TOT OBS	30	32	29	8	99	3.8
TOT PCT	30.3	32.3	29.3	8.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
E	.0	.0	.0	2.0	1.8	.0	.0	.0	1.0	.0	13.4	
SE	1.0	.0	.0	2.0	9.3	2.0	1.0	.0	1.0	.0	50.0	
S	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	11.6	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
TOT OBS	1	0	0	5	11	2	1	0	2	0	77	99
TOT PCT	1.0	.0	.0	5.1	11.1	2.0	1.0	.0	2.0	.0	77.8	100.0

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 >50YD	= OR >0
= OR >6500	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >5000	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >3500	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
= OR >2000	3.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
= OR >1000	12.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
= OR >600	15.7	21.6	21.6	21.6	21.6	21.6	21.6	21.6
= OR >300	15.7	21.6	21.6	21.6	21.6	21.6	21.6	21.6
= OR >150	15.7	21.6	21.6	21.6	21.6	21.6	21.6	21.6
= OR > 0	16.7	22.5	22.5	22.5	22.5	22.5	22.5	22.5
TOTAL	17	23	23	23	23	23	23	23

TOTAL NUMBER OF OBS: 102

PCT FREQ NH <5/8: 77.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.2	13.0	20.4	15.7	16.7	8.3	1.9	6.5	7.4 .0	108

PERIOD: (PRIMARY) 1914-1969
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.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	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.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	
	NO PCP	.0	.0	.4	.6	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	.0	.0	.4	.6	.0	.0	.0	.0	.0	.0	1.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.1	.6	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.1	.6	.0	.0	.0	.0	.0	.0	.7	
5<10	PCP	.0	.0	.0	4.1	.7	.0	.0	.0	.0	.0	4.8	
	NO PCP	.2	.2	9.1	42.2	4.6	1.0	.2	.0	.0	.0	57.6	
	TOT %	.2	.2	9.1	46.3	5.3	1.0	.2	.0	.0	.0	62.5	
10+	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.2	.5	8.8	22.1	3.6	.1	.0	.1	.0	.2	35.6	
	TOT %	.2	.5	8.8	22.3	3.6	.1	.0	.1	.0	.2	35.8	
	TOT OBS												413
	TOT PCT	.4	.8	18.4	69.9	8.9	1.1	.2	.1	.0	.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.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	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.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	
	4-10	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.1	.5	.1	.0	.0	.0	.0		.7	
	22+	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.0	.4	.5	.1	.0	.0	.0	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	11-21	.0	.1	.2	.9	.1	.0	.0	.0	.0		1.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.2	1.2	.1	.0	.0	.0	.0	.0	1.6	
5<10	0-3	.2	.0	.0	.0	.2	.4	.1	.0	.0	.0	.9	
	4-10	.0	.2	2.6	16.1	2.6	.3	.1	.0	.0		21.8	
	11-21	.0	.0	4.2	18.0	1.2	.0	.0	.0	.0		23.4	
	22+	.0	.0	.3	2.3	.2	.0	.0	.0	.0		2.8	
	TOT %	.2	.2	7.0	36.5	4.2	.7	.2	.0	.0	.0	48.8	
10+	0-3	.1	.2	.8	1.3	.4	.1	.0	*	.0	1.0	4.0	
	4-10	.2	.5	4.6	11.2	2.5	.2	.0	.2	.0		19.4	
	11-21	.0	*	4.9	16.6	2.2	.0	.0	.0	.0		23.7	
	22+	.0	.0	.2	1.1	.3	.0	.0	.0	.0		1.6	
	TOT %	.3	.7	10.5	30.1	5.4	.3	.0	.2	.0	1.0	48.6	
	TOT OBS												578
	TOT PCT	.5	1.0	18.1	68.3	9.7	1.0	.2	.2	.0	1.0	100.0	

PERIOD: (PRIMARY) 1914-1969
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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
00&03	.0	.0	.0	2.8	13.9	2.8	2.8	.0	.0	.0	22.2	77.8	36
06&09	.0	.0	.0	3.2	9.7	3.2	.0	.0	3.2	.0	19.4	80.6	31
12&15	.0	.0	.0	5.0	5.0	.0	.0	.0	5.0	.0	15.0	85.0	20
18&21	5.6	.0	.0	11.1	16.7	.0	.0	.0	.0	.0	33.3	66.7	18
TOT	1	0	0	5	12	2	1	0	2	0	23	82	105
PCT	1.0	.0	.0	4.8	11.4	1.9	1.0	.0	1.9	.0	21.9	78.1	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
00&03	.0	.0	1.6	.8	38.5	59.0	122
06&09	.0	.0	.0	1.1	53.9	45.0	180
12&15	.0	.0	.0	1.0	45.8	53.1	96
18&21	.0	.0	2.1	2.7	51.6	43.6	188
TOT	0	0	6	9	285	286	586
PCT	.0	.0	1.0	1.5	48.6	48.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	2.9	20.0	77.1	35
06&09	.0	.0	3.3	16.7	80.0	30
12&15	.0	.0	5.3	10.5	84.2	19
18&21	5.6	5.6	16.7	16.7	66.7	18
TOT	1	1	6	17	79	102
PCT	1.0	1.0	5.9	16.7	77.5	100.0

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
85/89	.0	.0	.0	.0	.0	.4	.0	.4	2	.7
80/84	.0	.0	.0	.0	2.6	11.4	7.0	3.3	66	24.2
75/79	.0	.0	.0	.7	8.4	20.9	25.3	13.2	187	68.5
70/74	.0	.0	.0	.0	1.1	1.1	1.8	2.2	17	6.2
65/69	.0	.0	.0	.0	.0	.0	.4	.0	1	.4
TOTAL	0	0	0	2	33	92	94	52	273	100.0
PCT	.0	.0	.0	.7	12.1	33.7	34.4	19.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.7	.0	.0	.0	.0	.0	.0
.4	.1	6.7	14.8	1.5	.5	.2	.0	.0	.0
.0	1.1	10.1	49.3	7.5	.2	.0	.0	.0	.4
.0	.0	.7	3.8	1.7	.0	.0	.0	.0	.0
.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
.4	1.2	17.5	69.0	10.7	.7	.2	.0	.0	.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	89	87	83	79	76	73	72	79.2	150
06&09	86	85	83	78	75	73	73	78.5	230
12&15	86	81	79	77	74	71	65	76.9	123
18&21	82	81	80	77	73	71	69	75.6	243
TOT	89	84	82	78	74	71	65	77.8	746

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	11.6	33.3	37.7	17.4	80	69
06&09	.0	.0	16.5	37.6	29.4	16.5	80	85
12&15	.0	.0	16.7	31.0	31.0	21.4	80	42
18&21	.0	2.5	4.9	30.9	38.3	23.5	82	81
TOT	0	2	33	93	95	54	81	277

MAY

PERIOD: (PRIMARY) 1914-1969
(OVER-ALL) 1881-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.0S 144.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	.3	.3	.0	.0	2	.0	.6
9/10	.0	.0	.0	.6	.0	.0	.3	3	.0	.8
7/8	.0	.0	.0	.6	.3	.3	.0	4	.0	1.1
6	.0	.0	.0	.0	.6	.0	.0	2	.0	.6
5	.0	.0	.3	.3	1.1	.3	.0	7	.0	1.9
4	.0	.0	.0	1.7	1.1	.3	.0	11	.0	3.1
3	.0	.0	.0	5.3	3.6	.0	.0	32	.0	8.9
2	.0	.0	.6	10.9	2.8	.3	.0	52	.0	14.5
1	.0	.0	3.9	11.7	3.3	.0	.0	68	.0	18.9
0	.0	.0	4.7	15.6	1.1	.0	.0	77	.0	21.4
-1	.3	.3	5.0	8.1	.3	.0	.0	50	.0	13.9
-2	.0	.3	2.8	5.3	.0	.0	.0	30	.0	8.4
-3	.0	.0	1.1	1.9	.0	.0	.0	11	.0	3.1
-4	.0	.3	.6	1.1	.0	.0	.0	7	.0	1.9
-5	.0	.3	.3	.0	.0	.0	.0	2	.0	.6
-6	.0	.0	.0	.3	.0	.0	.0	1	.0	.3
TOTAL	1	4	69	228	52	4	1	359	0	359
PCT	.3	1.1	19.2	63.5	14.5	1.1	.3	100.0		100.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.0	.0	.0	.0	.0	.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.9	.0	.0	.0	.0	2.9
1-2	.0	6.4	1.4	.0	.0	.0	7.9
3-4	.0	1.1	5.4	.0	.0	.0	6.4
5-6	.0	.0	2.9	.0	.0	.0	2.9
7	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	10.4	10.7	.0	.0	.0	21.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.7	1.4	.0	.0	.0	7.1
1-2	.0	3.6	7.1	.0	.0	.0	10.7
3-4	.0	6.1	30.0	4.3	.0	.0	40.4
5-6	.0	.0	8.9	.0	.0	.0	8.9
7	.0	.0	.4	1.4	.0	.0	1.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	15.4	47.9	5.7	.0	.0	68.9

MAY

PERIOD: (OVER-ALL) 1963-1969

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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	6.1	.0	.0	.0	6.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	2.5	.0	.0	.0	2.5	.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
TOT PCT	.0	1.4	8.6	.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0	.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.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	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.8	8.3	1.4	.0	.0	.0	12.5	
1-2	.0	11.1	8.3	.0	.0	.0	19.4	
3-4	.0	6.9	40.3	4.2	.0	.0	51.4	
5-6	.0	.0	13.9	.0	.0	.0	13.9	
7	.0	.0	1.4	1.4	.0	.0	2.8	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	2.8	26.4	65.3	5.6	.0	.0	100.0	72

PERIOD: (OVER-ALL) 1949-1969

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	7.1	15.3	27.6	9.2	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	3
6-7	.0	1.0	8.2	8.2	8.2	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	5
8-9	.0	.0	2.0	.0	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.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	
INDET	8.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	0
TOTAL	15	16	37	17	11	1	0	1	0	0	0	0	0	0	0	0	0	0	0	98	3
PCT	15.3	16.3	37.8	17.3	11.2	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1883-1969

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14.1S 144.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
E	2.8	2.8	.0	.0	.0	.0	.0	5.5	.0	2.2	2.8	.0	.0	.0		91.7
SE	2.6	13.3	.8	.0	.0	.0	.1	16.8	.5	.5	4.9	.0	.0	.0		77.7
S	3.7	20.5	4.2	.0	.0	.0	.5	28.9	.0	.9	.9	.0	.0	.0		70.2
SW	20.3	3.4	.0	.0	.0	.0	.0	23.7	.0	6.8	.0	.0	.0	.0		76.3
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
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	.0	.0		100.0
TOT PCT	3.1	12.5	1.2	.0	.0	.0	.1	17.0	.3	.9	3.7	.0	.0	.0		78.9
TOT OBS:	672															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	2.9	10.0	1.4	.0	.0	.0	.0	14.3	.7	.0	2.9	.0	.0	.0		82.1
06609	2.8	10.7	.5	.0	.0	.0	.0	14.0	.5	1.4	3.3	.0	.0	.0		82.2
12615	5.0	9.2	2.5	.0	.0	.0	.8	17.6	.0	2.5	3.4	.0	.0	.0		78.2
18621	3.2	17.1	.9	.0	.0	.0	.0	21.2	.5	.5	4.6	.0	.0	.0		73.7
TOT PCT	3.3	12.3	1.2	.0	.0	.0	.1	17.0	.4	1.0	3.6	.0	.0	.0		78.8
TOT OBS:	690															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.2	.0	.0	.0	.0	.0		.2	2.5	.0	.0	1.4	.0	.0	.0	.0	.0
NE	.4	.7	.0	.0	.0	.0		1.2	4.8	.0	.6	1.4	3.6	.0	.0	.7	1.3
E	1.0	7.6	9.9	.2	.0	.0		14.8	10.4	11.0	14.5	18.5	19.6	21.1	13.1	14.6	8.7
SE	4.1	31.1	25.4	2.7	.0	.0		63.4	11.2	68.0	63.4	60.5	62.3	67.1	66.3	60.5	65.4
S	1.4	8.0	5.5	.9	.0	.0		15.9	10.8	21.0	16.8	12.4	12.3	11.8	16.7	16.3	19.9
SW	.4	1.5	.3	.0	.0	.0		2.2	7.2	.0	2.0	3.4	.7	.0	1.8	3.2	2.9
W	.1	.2	.1	.0	.0	.0		.3	7.4	.0	.3	.0	.0	.0	.0	1.2	.3
NW	.4	.5	.0	.0	.0	.0		.8	4.1	.0	1.4	.0	.7	.0	.0	2.0	1.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0	.0	1.1	2.0	.7	.0	2.1	1.4	.5
TOT OBS	87	471	354	37	0	0	949		10.6	25	176	147	138	19	141	147	155
TOT PCT	9.2	49.6	37.3	3.9	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.2	.0	.0	.0	.0		.2	2.5	.0	.7	.0	.0
NE	.9	.3	.0	.0	.0		1.2	4.8	.5	2.5	.0	1.0
E	3.9	8.2	2.7	.1	.0		14.8	10.4	14.1	19.0	14.1	11.6
SE	12.5	37.9	11.7	1.2	.0		63.4	11.2	63.9	61.6	66.4	63.0
S	4.5	8.4	2.4	.6	.0		15.9	10.8	17.3	12.4	16.1	18.2
SW	1.1	1.1	.1	.0	.0		2.2	7.2	1.7	2.1	1.6	3.1
W	.2	.1	.0	.0	.0		.3	7.4	.2	.0	.0	.7
NW	.7	.1	.0	.0	.0		.8	4.1	1.2	.4	.0	1.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	1.0	1.4	1.9	1.0
TOT OBS	240	531	160	16	0	949		10.6	201	285	160	303
TOT PCT	25.3	56.0	16.9	1.9	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.0	7.5	48.8	39.3	3.5	.0	.0	10.7	100.0	201
06&09	1.4	9.1	44.6	41.1	3.9	.0	.0	10.8	100.0	285
12&15	1.9	3.8	51.9	38.8	3.8	.0	.0	11.0	100.0	160
18&21	1.0	9.2	53.8	31.7	4.3	.0	.0	10.2	100.0	303
TOT	12	75	471	354	37	0	0	10.6		949
PCT	1.3	7.9	49.6	37.3	3.9	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	.0	.0	.0		.0
NE	.0	.0	.0	.0		.0
E	9.3	2.9	9.3	.0		3.6
SE	23.6	13.2	17.5	7.1		3.8
S	5.7	1.1	6.1	.0		4.1
SW	.4	.0	1.4	.0		5.8
W	1.1	.0	.0	.0		1.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	29	12	24	5	70	3.7
TOT PCT	41.4	17.1	34.3	7.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	1.4	4.3	1.1	.0	.0	.0	.0	.0	14.6	
SE	.0	.0	.0	6.1	6.4	6.1	1.4	.0	.0	.0	41.4	
S	.0	.0	.0	1.1	1.1	3.9	.0	.0	.0	.0	6.8	
SW	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.4	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	1	8	6	8	1	0	0	0	46	70
TOT PCT	.0	.0	1.4	11.4	8.6	11.4	1.4	.0	.0	.0	65.7	100.0

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 >500YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >2000	9.7	12.5	12.5	12.5	12.5	12.5	12.5	12.5
= OR >1000	18.1	20.8	20.8	20.8	20.8	20.8	20.8	20.8
= OR >600	27.8	33.3	33.3	33.3	33.3	33.3	33.3	33.3
= OR >300	29.2	34.7	36.1	36.1	36.1	36.1	36.1	36.1
= OR >150	29.2	34.7	36.1	36.1	36.1	36.1	36.1	36.1
= OR > 0	29.2	34.7	36.1	36.1	36.1	36.1	36.1	36.1
TOTAL	21	25	26	26	26	26	26	26

TOTAL NUMBER OF OBS: 72

PCT FREQ NH <5/8: 63.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.2	19.7	15.8	10.5	5.3	5.3	13.2	10.5	10.5	.0	76

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.3	2.1	.1	.0	.0	.0	.0	.0	2.5	
	TOT %	.0	.0	.3	2.2	.3	.0	.0	.0	.0	.0	2.8	
1<2	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
5<10	PCP	.0	.0	.6	10.2	4.3	.5	.0	.0	.0	.0	15.6	
	NO PCP	.0	1.1	8.0	37.6	8.0	.9	.0	.7	.0	.1	56.5	
	TOT %	.0	1.1	8.6	47.8	12.4	1.4	.0	.7	.0	.1	72.2	
10+	PCP	.0	.0	.1	.7	.1	.0	.0	.0	.0	.0	.9	
	NO PCP	.1	.1	4.4	14.9	3.2	.8	.1	.0	.0	.0	23.7	
	TOT %	.1	.1	4.5	15.6	3.2	.8	.1	.0	.0	.0	24.6	
	TOT OBS												672
	TOT PCT	.1	1.3	13.5	66.0	16.0	2.2	.1	.7	.0	.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	.5	
	4-10	.0	.0	.2	1.2	.1	.0	.0	.0	.0		1.6	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.2	1.9	.2	.0	.0	.0	.0	.0	2.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.2	.1	.0	.0	.0	.0		.4	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.0	.0	.1	.3	.1	.0	.0	.0	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.2	.2	.0	.0	.0	.0		.6	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.5	.2	.0	.0	.0	.0	.0	.9	
5<10	0-3	.0	.2	.6	3.5	1.0	.1	.0	.4	.0	.5	6.4	
	4-10	.0	.7	4.7	21.7	5.0	.7	.0	.4	.0		33.2	
	11-21	.0	.0	2.4	14.5	3.4	.4	.0	.0	.0		20.6	
	22+	.0	.0	.1	1.6	1.0	.0	.0	.0	.0		2.6	
	TOT %	.0	.9	7.7	41.2	10.4	1.2	.0	.7	.0	.5	62.7	
10+	0-3	.2	.1	.3	.4	.4	.1	.1	.1	.0	.2	2.0	
	4-10	.0	.1	2.4	9.1	1.9	.5	.0	.0	.0		14.0	
	11-21	.0	.0	3.4	10.6	2.5	*	.1	.0	.0		16.6	
	22+	.0	.0	.0	.9	.1	.0	.0	.0	.0		1.0	
	TOT %	.2	.2	6.0	21.0	4.9	.7	.2	.1	.0	.2	33.5	
	TOT OBS												802
	TOT PCT	.2	1.2	14.2	64.9	15.9	1.8	.2	.8	.0	.7	100.0	

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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
00&03	.0	.0	4.0	12.0	12.0	12.0	4.0	.0	.0	.0	44.0	56.0	25
06&09	.0	.0	4.8	14.3	9.5	19.0	.0	.0	.0	.0	47.6	52.4	21
12&15	.0	.0	.0	.0	7.1	.0	.0	.0	.0	.0	7.1	92.9	14
18&21	.0	.0	.0	25.0	.0	8.3	.0	.0	.0	.0	33.3	66.7	12
TOT	0	0	2	9	6	8	1	0	0	0	26	46	72
PCT	.0	.0	2.8	12.5	8.3	11.1	1.4	.0	.0	.0	36.1	63.9	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
00&03	.0	1.8	.6	1.2	55.4	41.1	168
06&09	.0	2.0	.4	.8	69.2	27.6	250
12&15	.0	2.2	1.5	.7	55.1	40.4	136
18&21	.0	3.0	.0	1.1	66.9	28.9	266
TOT	0	19	4	8	519	270	820
PCT	.0	2.3	.5	1.0	63.3	32.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	4.0	16.0	28.0	56.0	25
06&09	.0	4.8	19.0	28.6	52.4	21
12&15	.0	.0	.0	7.1	92.9	14
18&21	.0	.0	25.0	8.3	66.7	12
TOT	0	2	11	15	46	72
PCT	.0	2.8	15.3	20.8	63.9	100.0

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
80/84	.0	.0	.0	.4	1.2	3.1	1.9	.4	18	6.9
75/79	.0	.0	.0	.4	5.0	22.4	20.5	10.8	153	59.1
70/74	.0	.0	.0	2.3	2.3	7.7	9.3	8.5	76	30.1
65/69	.0	.0	.0	.0	1.2	.0	.8	1.2	8	3.1
60/64	.0	.0	.0	.0	.0	.0	.4	.4	2	.8
TOTAL	0	0	0	8	25	86	85	55	259	100.0
PCT	.0	.0	.0	3.1	9.7	33.2	32.8	21.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	1.6	3.5	1.4	.0	.0	.4	.0	.0
	.0	2.7	12.7	35.6	5.5	1.7	.0	.4	.0	.4
	.0	.4	4.3	15.3	7.0	1.6	.3	1.2	.0	.0
	.0	.0	.0	1.5	1.0	.6	.0	.0	.0	.0
	.0	.0	.0	.6	.2	.0	.0	.0	.0	.0
	.0	3.1	18.7	56.5	15.2	4.0	.3	1.9	.0	.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	84	82	82	77	71	68	67	76.9	201
06&09	83	82	81	77	72	69	67	76.3	292
12&15	81	80	79	75	71	69	69	75.0	158
18&21	80	79	79	75	69	66	61	74.5	306
TOT	84	82	80	76	70	68	61	75.7	957

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	5.0	10.0	40.0	26.7	18.3	79	60
06&09	.0	3.4	9.2	42.5	31.0	13.8	79	87
12&15	.0	2.3	14.0	20.9	41.9	20.9	82	43
18&21	.0	1.2	7.1	23.5	37.6	30.6	83	85
TOT	0	8	26	90	93	58	81	275

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.2	1	.0	.2
6	.0	.0	.0	.8	.3	7	.0	1.1
5	.0	.0	.2	2.1	1.5	23	.2	3.6
4	.0	.0	.5	5.2	1.3	43	.0	7.0
3	.0	.2	2.9	8.3	.8	75	1.0	11.3
2	.0	.5	5.7	11.6	.3	111	1.0	17.1
1	.0	1.1	7.8	7.8	.2	104	.5	16.5
0	.0	1.5	10.0	4.2	.5	99	.3	15.8
-1	.0	.5	4.9	1.8	.2	45	.5	6.9
-2	.0	1.5	3.6	.8	.2	37	.0	6.0
-3	.0	1.0	2.3	.7	.0	24	.2	3.8
-4	.3	.5	1.5	.5	.0	17	.3	2.4
-5	.0	.3	.5	1.5	.0	14	.0	2.3
-6	.2	.0	.7	.0	.0	5	.0	.8
-7/-8	.0	.3	.8	.0	.0	7	.0	1.1
-9/-10	.2	.0	.0	.0	.0	1	.0	.2
TOTAL	4	45	253	278	33	613	24	589
PCT	.7	7.3	41.3	45.4	5.4	100.0	3.9	96.1

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.0	.0	.0	.0	.0	.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.5	1.6	.0	.0	.0	5.1
3-4	.0	2.7	7.0	.0	.0	.0	9.8
5-6	.0	.0	2.3	.0	.0	.0	2.3
7	.0	.0	7.0	.0	.0	.0	7.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	6.3	18.0	.0	.0	.0	24.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.3	8.6	.0	.0	.0	14.8
3-4	.0	7.0	18.8	.0	.0	.0	25.8
5-6	.0	3.1	8.6	.0	.0	.0	11.7
7	.0	.0	5.5	1.6	.0	.0	7.0
8-9	.0	.0	1.6	.0	.0	.0	1.6
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	16.4	43.0	1.6	.0	.0	60.9

PERIOD: (OVER-ALL) 1963-1969

JUNE

TABLE 18 (CONT)

AREA 0001 PRINCESS CHARLOTTE BAY
14.1S 144.4E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.3	3.9	.0	.0	.0	8.2
3-4	.0	1.2	2.3	.0	.0	.0	3.5
5-6	.0	.0	1.6	.0	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	5.5	7.8	.0	.0	.0	13.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.0	.4	.0	.0	.0	.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.2	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.0	1.2	.0	.0	.0	1.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	100.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	14.1	14.1	.0	.0	.0	28.1	
3-4	.0	10.9	29.7	.0	.0	.0	40.6	
5-6	.0	3.1	12.5	.0	.0	.0	15.6	
7	.0	.0	12.5	1.6	.0	.0	14.1	
8-9	.0	.0	1.6	.0	.0	.0	1.6	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	.0	28.1	70.3	1.6	.0	.0	100.0	64

PERIOD: (OVER-ALL) 1949-1969

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	26.0	27.3	7.8	6.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	3
6-7	.0	.0	6.5	5.2	5.2	2.6	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	6
8-9	.0	.0	.0	1.3	2.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.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	
INDET	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2
TOTAL	2	20	27	11	11	2	4	0	0	0	0	0	0	0	0	0	0	0	0	77	4
PCT	2.6	26.0	35.1	14.3	14.3	2.6	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1855-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23.5	.0	.0	.0	76.5
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	.0	1.4	.0	95.8
E	.6	4.6	.0	.0	.0	.0	.0	5.2	.0	.0	1.7	.0	1.4	.0	91.6
SE	2.2	7.4	.6	.0	.0	.0	.0	10.2	.1	.1	3.8	.0	.8	.0	85.0
S	3.0	10.3	1.3	.0	.0	.0	.0	14.6	.0	.0	6.3	.0	3.2	.0	75.9
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0	.0	.0	95.5
W	.0	5.6	.0	.0	.0	.0	.0	5.6	.0	.0	2.8	.0	.0	.0	91.7
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
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	.0	.0	100.0
TOT PCT	1.9	6.9	.6	.0	.0	.0	.0	9.4	.1	.1	3.8	.0	1.2	.0	85.5
TOT OBS:	1205														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00&03	.9	3.8	.9	.0	.0	.0	.0	5.6	.0	.0	4.3	.0	1.7	.0	88.5
06&09	1.0	5.9	.5	.0	.0	.0	.0	7.3	.0	.0	5.1	.0	1.2	.0	86.3
12&15	3.3	6.1	.0	.0	.0	.0	.0	9.4	.0	.0	2.3	.0	.5	.0	87.8
18&21	2.4	9.3	.7	.0	.0	.0	.0	12.4	.2	.2	2.4	.0	1.0	.0	83.7
TOT PCT	1.8	6.6	.6	.0	.0	.0	.0	9.0	.1	.1	3.6	.0	1.1	.0	86.1
TOT OBS:	1267														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.2	.2	.0	.0	.0	.0		.4	3.7	.0	.0	1.2	.4	.0	.2	.0	.4
NE	1.0	1.6	.2	.0	.0	.0		2.7	5.2	.0	1.8	5.6	4.4	.0	1.7	2.4	1.0
E	1.2	7.7	5.2	.6	.0	.0		14.7	10.3	12.9	14.2	20.2	16.9	10.9	13.7	12.6	10.8
SE	4.2	28.8	25.3	5.9	.0	.0		64.2	12.2	57.1	62.6	57.5	64.2	79.3	69.4	68.8	63.3
S	1.7	7.5	3.7	.5	.0	.0		13.4	9.7	23.6	15.1	12.9	11.9	9.8	11.8	9.7	17.5
SW	.4	1.3	.2	.0	.0	.0		1.8	5.9	3.6	2.0	.4	.0	.0	2.1	3.0	3.4
W	.7	.7	.0	.0	.0	.0		1.4	3.7	2.9	1.4	.7	.4	.0	1.1	2.0	2.5
NW	.1	.3	.0	.0	.0	.0		.4	5.3	.0	.7	.7	.4	.0	.0	.0	.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1							1.1	.0	.0	2.2	.7	1.3	.0	.0	1.6	.8
TOT OBS	168	764	551	112	0	0	1595		11.0	35	278	272	236	23	234	254	263
TOT PCT	10.5	47.9	34.5	7.0	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.3	*	.0	.0	.0		.4	3.7	.0	.8	.2	.2
NE	2.0	.7	*	.0	.0		2.7	5.2	1.6	5.1	1.6	1.6
E	4.5	7.3	2.8	*	.0		14.7	10.3	14.1	18.7	13.4	11.7
SE	13.5	30.7	18.1	1.9	.0		64.2	12.2	62.0	60.6	70.3	66.0
S	4.2	7.0	2.1	.1	.0		13.4	9.7	16.1	12.4	11.6	13.7
SW	1.3	.5	*	.0	.0		1.8	5.9	2.2	.2	1.9	3.2
W	1.3	.1	.0	.0	.0		1.4	3.7	1.6	.6	1.0	2.2
NW	.3	.1	.0	.0	.0		.4	5.3	.6	.6	.0	.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.1						1.1	.0	1.9	1.0	.0	1.2
TOT OBS	455	739	368	33	0	1595		11.0	313	508	257	517
TOT PCT	28.5	46.3	23.1	2.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1897-1969
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.9	9.9	48.2	33.9	6.1	.0	.0	10.7	100.0	313
06&09	1.0	9.1	45.5	36.7	8.3	.0	.0	11.3	100.0	508
12&15	.0	9.3	44.4	38.1	8.2	.0	.0	11.8	100.0	257
18&21	1.2	9.7	51.8	31.5	5.8	.0	.0	10.4	100.0	517
TOT	17	151	764	551	112	0	0	11.0		1595
PCT	1.1	9.5	47.9	34.5	7.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	.0	.0	.0		2.0
NE	2.3	.0	.0	.0		1.1
E	5.0	3.5	7.8	.8		4.2
SE	25.8	14.8	16.0	3.3		3.3
S	9.3	2.8	4.0	.0		2.3
SW	.0	2.0	.3	.0		3.7
W	2.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	45	23	28	4	100	3.2
TOT PCT	45.0	23.0	28.0	4.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	
E	.0	.0	.0	1.8	1.0	.0	.0	.0	.0	.8	13.5	
SE	.0	.0	.0	4.5	4.3	3.0	.0	.0	.0	.3	47.8	
S	.0	.0	.0	.8	1.8	.0	.0	.0	.0	.0	13.5	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	0	7	7	3	0	0	0	1	82	100
TOT PCT	.0	.0	.0	7.0	7.0	3.0	.0	.0	.0	1.0	82.0	100.0

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 >50YD	= OR >0
= OR >6500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >3500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >2000	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
= OR >1000	10.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
= OR >600	14.0	16.0	18.0	18.0	18.0	18.0	18.0	18.0
= OR >300	14.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
= OR >150	14.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
= OR > 0	14.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
TOTAL	14	18	18	18	18	18	18	18

TOTAL NUMBER OF OBS: 100

PCT FREQ NH <5/8: 82.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
19.2	23.1	15.4	14.4	9.6	4.8	6.7	2.9	3.8	.0	104

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PERIOD: (PRIMARY) 1897-1969
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.1	.4	.1	.0	.0	.0	.0	.0	.6	
	NO PCP	.1	.1	.3	3.6	.9	.0	.0	.0	.0	.0	5.0	
	TOT %	.1	.1	.4	4.0	1.0	.0	.0	.0	.0	.0	5.6	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	*	.2	.4	.3	.0	.0	.0	.0	.0	1.0	
	TOT %	.0	*	.2	.4	.3	.0	.0	.0	.0	.0	1.0	
2<5	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
5<10	PCP	.0	.0	.7	6.0	1.7	.0	.1	.0	.0	.0	8.5	
	NO PCP	.1	2.5	10.3	47.7	7.1	1.7	1.2	.3	.0	.1	71.0	
	TOT %	.1	2.5	10.9	53.7	8.9	1.7	1.2	.3	.0	.1	79.4	
10+	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.2	.3	2.8	7.6	2.3	.2	.2	.1	.0	.0	13.7	
	TOT %	.2	.3	2.8	7.8	2.3	.2	.2	.1	.0	.0	13.9	
	TOT OBS												1205
	TOT PCT	.4	3.0	14.4	66.0	12.5	1.8	1.5	.4	.0	.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.2	1.0	.5	.0	.0	.0	.0		1.7	
	11-21	.0	.0	.1	1.9	.3	.0	.0	.0	.0		2.4	
	22+	.0	.0	*	.5	*	.0	.0	.0	.0		.6	
	TOT %	.1	.1	.4	3.5	.9	.0	.0	.0	.0	.0	4.9	
1<2	0-3	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.1	.2	.1	.0	.0	.0	.0		.5	
	11-21	.0	*	*	.4	.1	.0	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.2	.7	.3	.0	.0	.0	.0	.0	1.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.1	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.3	
5<10	0-3	.1	1.0	.8	3.6	1.5	.4	.5	.1	.0	.1	8.1	
	4-10	.0	1.1	5.1	20.7	4.2	1.0	.5	.1	.0		32.8	
	11-21	.0	*	3.2	18.3	1.8	.1	.0	.0	.0		23.4	
	22+	.0	.0	.6	5.2	.3	.0	.0	.0	.0		6.2	
	TOT %	.1	2.2	9.6	47.7	7.9	1.4	1.1	.3	.0	.1	70.4	
10+	0-3	.0	.1	.5	.8	*	.0	.1	.0	.0	.5	1.9	
	4-10	.2	.6	2.2	6.9	2.2	.2	.1	.1	.0		12.6	
	11-21	.0	.1	1.5	5.0	1.1	.1	.0	.0	.0		7.8	
	22+	.0	.0	.0	.8	.1	.0	.0	.0	.0		.9	
	TOT %	.2	.8	4.3	13.4	3.5	.3	.2	.1	.0	.5	23.2	
	TOT OBS												1394
	TOT PCT	.3	3.1	14.6	65.5	12.5	1.7	1.3	.4	.0	.6	100.0	

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1855-1969

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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
00&03	.0	.0	.0	6.1	12.1	3.0	.0	.0	.0	.0	21.2	78.8	33
06&09	.0	.0	.0	14.3	7.1	.0	.0	.0	.0	.0	21.4	78.6	28
12&15	.0	.0	.0	4.5	4.5	4.5	.0	.0	.0	.0	13.6	86.4	22
18&21	.0	.0	.0	.0	.0	5.0	.0	.0	.0	5.0	10.0	90.0	20
TOT	0	0	0	7	7	3	0	0	0	1	18	85	103
PCT	.0	.0	.0	6.8	6.8	2.9	.0	.0	.0	1.0	17.5	82.5	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
00&03	.0	4.4	1.1	.0	63.6	30.9	272
06&09	.0	6.1	1.1	.4	72.9	19.5	473
12&15	.0	3.8	.8	.8	70.8	23.8	240
18&21	.0	4.0	1.5	.0	75.2	19.3	472
TOT	0	69	17	4	1043	324	1457
PCT	.0	4.7	1.2	.3	71.6	22.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	6.1	15.2	78.8	33
06&09	.0	.0	14.8	7.4	77.8	27
12&15	.0	.0	5.0	10.0	85.0	20
18&21	.0	.0	.0	10.0	90.0	20
TOT	0	0	7	11	82	100
PCT	.0	.0	7.0	11.0	82.0	100.0

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
80/84	.0	.0	.4	.0	1.4	1.4	.0	.0	9	3.2
75/79	.0	.0	.7	.0	3.2	13.0	9.1	8.1	97	34.0
70/74	.0	.0	.0	1.1	10.5	12.6	15.8	18.9	168	58.9
65/69	.0	.0	.0	.0	.7	.4	1.4	1.4	11	3.9
TOTAL	0	0	3	3	45	78	75	81	285	100.0
PCT	.0	.0	1.1	1.1	15.8	27.4	26.3	28.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	1.8	1.1	.3	.0	.0	.0	.0	.0
	.4	.4	6.4	22.6	2.7	.5	.0	.7	.0	.4
	.6	2.0	8.5	34.0	9.9	2.6	.9	.4	.0	.0
	.0	.0	.8	2.0	1.1	.0	.0	.0	.0	.0
	1.0	2.4	17.5	59.7	13.9	3.2	.9	1.1	.0	.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	85	82	80	76	71	69	68	75.9	311
06&09	81	80	79	75	71	69	61	75.2	525
12&15	81	79	77	74	70	67	63	73.5	262
18&21	82	79	77	73	69	66	59	73.2	527
TOT	85	81	79	74	70	68	59	74.4	1635

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	3.0	17.9	31.3	28.4	19.4	78	67
06&09	.0	2.2	18.3	34.4	23.7	21.5	79	93
12&15	.0	2.2	13.3	20.0	31.1	33.3	82	45
18&21	.0	1.1	11.4	22.7	27.3	37.5	83	88
TOT	0	6	45	82	79	81	81	293

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PERIOD: (PRIMARY) 1897-1969
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.1	1	.0	.1
7/8	.0	.0	.0	.3	.3	6	.0	.6
6	.0	.1	.2	1.0	.1	14	.0	1.4
5	.0	.0	.2	2.0	.3	25	.1	2.4
4	.0	.1	1.8	5.1	.2	73	.0	7.2
3	.0	.0	7.0	6.9	.1	142	1.4	12.6
2	.0	1.5	13.3	4.2	.0	193	1.7	17.4
1	.0	1.5	18.1	1.2	.0	210	1.0	19.8
0	.1	4.1	11.6	.9	.2	170	.3	16.5
-1	.1	3.8	3.1	.2	.0	72	.0	7.1
-2	.4	4.1	1.7	.2	.1	65	.1	6.3
-3	.2	1.1	.6	.1	.0	20	.0	2.0
-4	.1	.7	.2	.0	.0	10	.0	1.0
-5	.1	.6	.1	.0	.0	8	.0	.8
-6	.1	.0	.0	.0	.0	1	.0	.1
-7/-8	.2	.0	.0	.0	.0	2	.0	.2
TOTAL	13	176	585	224	14	1012	46	966
PCT	1.3	17.4	57.8	22.1	1.4	100.0	4.5	95.5

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	1.0	.0	.0	.0	.0	1.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	.0	1.3	.0	.0	.0	1.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	1.6	1.3	.0	.0	.0	2.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.5	1.0	.0	.0	.0	5.4
3-4	.0	3.5	1.0	.0	.0	.0	4.5
5-6	.0	.0	4.5	.0	.0	.0	4.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	8.0	6.4	.0	.0	.0	14.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.1	.0	.0	.0	.0	5.1
1-2	1.3	7.1	6.7	.0	.0	.0	15.1
3-4	.0	5.8	18.3	.0	.0	.0	24.0
5-6	.0	.3	9.3	4.5	.0	.0	14.1
7	.0	.0	.3	2.6	.0	.0	2.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.3	18.3	34.6	7.1	.0	.0	61.2

TABLE 18 (CONT) 14.1S 144.3E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.6	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	5.1	.0	.0	.0	5.1	.0	2.6	.0	.0	.0	.0	2.6
3-4	.0	1.0	1.3	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0
5-6	.0	1.0	2.9	1.9	.0	.0	5.8	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.0	.0	.0	.0	1.0	.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
TOT PCT	.0	4.5	10.3	1.9	.0	.0	16.7	.0	2.6	.0	.0	.0	.0	2.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.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	
TOT PCT	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	11.5	.0	.0	.0	.0	11.5	
1-2	1.3	14.1	14.1	.0	.0	.0	29.5	
3-4	.0	10.3	20.5	.0	.0	.0	30.8	
5-6	.0	1.3	16.7	6.4	.0	.0	24.4	
7	.0	.0	1.3	2.6	.0	.0	3.8	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	1.3	37.2	52.6	9.0	.0	.0	100.0	78

PERIOD: (OVER-ALL) 1949-1969 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	10.8	21.5	26.9	7.5	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	3
6-7	.0	.0	9.7	11.8	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	4
8-9	.0	.0	.0	2.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.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	
INDET	2.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	1
TOTAL	12	20	35	20	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	93	3
PCT	12.9	21.5	37.6	21.5	5.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1855-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.2S 144.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	.0	.0		88.9
NE	.9	.0	.0	.0	.0	.0	.0	.9	.0	.0	1.9	.0	.0	.0		97.2
E	.1	.6	.4	.0	.0	.0	.0	1.1	.0	.0	3.2	.0	.0	.0		95.7
SE	1.4	6.3	.9	.0	.0	.0	.1	8.8	.1	.0	6.1	.0	.5	.0		84.6
S	1.6	13.7	.0	.0	.0	.0	.0	15.3	1.1	.0	3.3	.0	.0	.0		80.3
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	.0	7.3	.0		85.5
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	33.3	.0	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0		66.7
TOT PCT	1.1	4.9	.7	.0	.0	.0	.1	6.8	.1	.0	5.0	.0	.4	.0		87.7
TOT OBS:	1522															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	1.1	3.5	1.1	.0	.0	.0	.0	5.6	.0	.0	7.0	.0	.7	.0		86.0
06609	1.0	4.7	.6	.0	.0	.0	.0	6.3	.0	.0	5.7	.0	.4	.0		87.6
12615	.8	4.9	.8	.0	.0	.0	.0	6.4	.0	.0	3.0	.0	.4	.0		90.2
18621	1.7	5.6	.4	.0	.0	.0	.2	7.9	.4	.0	4.1	.0	.2	.0		87.4
TOT PCT	1.2	4.8	.6	.0	.0	.0	.1	6.7	.1	.0	5.0	.0	.4	.0		87.8
TOT OBS:	1575															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	.1	.1	.0	.0	.0		.5	4.3	.0	1.0	.7	.5	.0	.4	.7	.0
NE	1.0	1.9	.4	.0	.0	.0		3.4	6.1	3.7	2.2	4.5	5.8	4.5	4.2	2.1	1.5
E	3.5	16.0	5.6	.8	.1	.0		25.8	8.9	2.8	23.2	26.7	30.1	8.0	29.9	27.0	22.3
SE	3.5	34.0	21.3	2.8	.0	.0		61.6	10.8	79.6	63.1	60.3	59.8	80.7	60.1	60.3	62.7
S	.5	4.1	1.5	.5	.0	.0		6.6	10.8	9.3	7.5	5.8	3.5	6.8	4.2	6.8	11.3
SW	.4	.5	.1	.0	.0	.0		.9	5.3	.9	1.6	1.2	.0	.0	.2	1.4	1.2
W	.2	.3	.0	.0	.0	.0		.5	4.4	.0	.5	.5	.0	.0	.4	1.1	.7
NW	.2	.2	.0	.0	.0	.0		.4	3.6	.0	.6	.0	.3	.0	.6	.4	.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2							.2	.0	3.7	.3	.3	.0	.0	.0	.4	.0
TOT OBS	177	1027	519	73	1	0	1797		10.0	27	314	291	286	22	271	285	301
TOT PCT	9.8	57.2	28.9	4.1	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.5	.0	.1	.0	.0		.5	4.3	.9	.6	.3	.3
NE	2.1	1.2	*	.0	.0		3.4	6.1	2.3	5.1	4.3	1.8
E	9.7	13.3	2.5	.3	.0		25.8	8.9	21.6	28.4	28.2	24.6
SE	14.0	35.3	11.0	1.3	.0		61.6	10.8	64.4	60.1	61.7	61.5
S	1.8	3.5	.8	.5	.0		6.6	10.8	7.6	4.6	4.4	9.1
SW	.6	.3	.0	.0	.0		.9	5.3	1.5	.6	.2	1.3
W	.4	.1	.0	.0	.0		.5	4.4	.4	.3	.3	.9
NW	.4	.0	.0	.0	.0		.4	3.6	.6	.2	.5	.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.2						.2	.0	.6	.2	.0	.2
TOT OBS	536	965	258	38	0	1797		10.0	341	577	293	586
TOT PCT	29.8	53.7	14.4	2.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1855-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.2S 144.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00603	.6	9.7	58.1	29.6	2.1	.0	.0	9.6	100.0	341
06609	.2	8.7	54.8	31.2	5.0	.2	.0	10.4	100.0	577
12615	.0	9.2	53.2	31.7	5.8	.0	.0	10.7	100.0	293
18621	.2	10.8	60.9	24.7	3.4	.0	.0	9.5	100.0	586
TOT	4	173	1027	519	73	1	0	10.0		1797
PCT	.2	9.6	57.2	28.9	4.1	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	3.6	1.2	.0	.0		1.7
E	8.0	6.3	.9	1.2		2.6
SE	21.7	20.2	19.9	7.4		3.7
S	1.2	1.8	3.0	.9		4.7
SW	1.2	.3	.0	.0		.6
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	1.2	.0	.0	.0		1.0
TOT OBS	31	25	20	8	94	3.4
TOT PCT	36.9	29.8	23.8	9.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	
E	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	15.5	
SE	.0	.0	3.9	3.6	6.3	3.0	1.2	1.2	.0	.0	50.3	
S	.0	.0	.9	1.2	.9	.9	.0	.0	.0	.0	3.0	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
TOT OBS	0	0	4	4	6	4	1	1	0	0	64	84
TOT PCT	.0	.0	4.8	4.8	7.1	4.8	1.2	1.2	.0	.0	76.2	100.0

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 >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
= OR >3500	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
= OR >2000	5.8	7.0	7.0	7.0	7.0	7.0	7.0	7.0
= OR >1000	11.6	14.0	14.0	14.0	14.0	14.0	14.0	14.0
= OR >600	15.1	18.6	18.6	18.6	18.6	18.6	18.6	18.6
= OR >300	19.8	23.3	23.3	23.3	23.3	23.3	23.3	23.3
= OR >150	19.8	23.3	23.3	23.3	23.3	23.3	23.3	23.3
= OR > 0	19.8	23.3	23.3	23.3	23.3	23.3	23.3	23.3
TOTAL	17	20	20	20	20	20	20	20

TOTAL NUMBER OF OBS: 86 PCT FREQ NH <5/8: 76.7

ABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
13.0	16.3	18.5	19.6	8.7	8.7	5.4	4.3	5.4	.0	92

AUGUST

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1855-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.2S 144.4E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.1	.1	1.0	4.2	.4	.1	.0	.0	.0	.0	5.9	
	TOT %	.1	.1	1.0	4.5	.5	.1	.0	.0	.0	.0	6.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
5<10	PCP	.0	*	.3	5.0	.8	.0	.0	.0	.0	.1	6.2	
	NO PCP	.5	3.0	22.5	44.5	4.1	.7	.3	.3	.0	.1	76.0	
	TOT %	.5	3.0	22.7	49.5	5.0	.7	.3	.3	.0	.2	82.2	
10+	PCP	.0	.0	.0	.2	*	.0	.0	.0	.0	.0	.3	
	NO PCP	.1	.4	2.0	7.8	.6	.1	.0	.0	.0	.0	11.0	
	TOT %	.1	.4	2.0	8.0	.6	.1	.0	.0	.0	.0	11.2	
	TOT OBS												1521
	TOT PCT	.6	3.5	25.8	62.3	6.0	.9	.3	.3	.0	.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.3	
	4-10	.0	.1	.4	2.2	.2	.1	.0	.0	.0		2.9	
	11-21	.1	*	.3	1.4	.2	.0	.0	.0	.0		1.9	
	22+	.0	.0	.2	.4	.0	.0	.0	.0	.0		.5	
	TOT %	.1	.1	.9	4.2	.4	.1	.0	.0	.0	.0	5.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	*	.1	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	.2	.0	.0	.0	.0	.0	.0	.3	
2<5	0-3	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.1	.2	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.4	
5<10	0-3	.3	.9	3.4	3.3	.5	.4	.1	.1	.0	.2	9.3	
	4-10	.1	1.4	13.6	27.1	2.7	.2	.2	.2	.0		45.5	
	11-21	.0	.4	3.6	14.1	.9	.0	.0	.0	.0		19.0	
	22+	.0	.0	.6	2.0	.6	.0	.0	.0	.0		3.2	
	TOT %	.4	2.8	21.1	46.5	4.7	.6	.3	.3	.0	.2	76.9	
10+	0-3	.1	.1	.3	.1	.0	.0	.0	.0	.0	.0	.5	
	4-10	.0	.4	1.7	5.2	.9	.1	.0	.0	.0		8.2	
	11-21	.0	*	1.4	5.6	.5	.0	.0	.0	.0		7.6	
	22+	.0	.0	.1	.2	.0	.0	.0	.0	.0		.4	
	TOT %	.1	.5	3.4	11.1	1.4	.1	.0	.0	.0	.0	16.7	
	TOT OBS												1650
	TOT PCT	.5	3.4	25.6	62.3	6.5	.8	.3	.3	.0	.2	100.0	

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1855-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.2S 144.4E

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
00&03	.0	.0	3.7	.0	11.1	3.7	.0	.0	.0	.0	18.5	81.5	27
06&09	.0	.0	4.8	14.3	.0	4.8	.0	.0	.0	.0	23.8	76.2	21
12&15	.0	.0	4.8	.0	9.5	4.8	.0	4.8	.0	.0	23.8	76.2	21
18&21	.0	.0	4.8	4.8	4.8	4.8	4.8	.0	.0	.0	23.8	76.2	21
TOT	0	0	4	4	6	4	1	1	0	0	20	70	90
PCT	.0	.0	4.4	4.4	6.7	4.4	1.1	1.1	.0	.0	22.2	77.8	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
00&03	.0	7.8	.7	.3	68.4	22.8	307
06&09	.0	6.4	.4	.4	78.0	14.9	551
12&15	.0	3.5	.0	.4	80.6	15.5	284
18&21	.0	4.8	.2	.4	79.9	14.8	561
TOT	0	96	5	6	1317	279	1703
PCT	.0	5.6	.3	.4	77.3	16.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.8	3.8	15.4	80.8	26
06&09	.0	5.0	20.0	5.0	75.0	20
12&15	.0	5.3	5.3	21.1	73.7	19
18&21	.0	4.8	9.5	14.3	76.2	21
TOT	0	4	8	12	66	86
PCT	.0	4.7	9.3	14.0	76.7	100.0

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
80/84	.0	.0	.0	.4	.7	1.4	1.1	1.4	14	5.0
75/79	.0	.0	.0	1.1	5.4	19.3	12.9	6.8	127	45.4
70/74	.0	.0	.0	.7	5.0	12.1	16.4	14.6	137	48.9
65/69	.0	.0	.0	.0	.0	.0	.7	.0	2	.7
TOTAL	0	0	0	6	31	92	87	64	280	100.0
PCT	.0	.0	.0	2.1	11.1	32.9	31.1	22.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.7	4.3	.0	.0	.0	.0	.0	.0
.4	2.9	7.8	30.9	2.4	.4	.0	.0	.0	.7
1.4	2.1	3.8	37.1	2.7	.4	.4	.7	.0	.4
.0	.0	.4	.4	.0	.0	.0	.0	.0	.0
1.8	5.0	12.7	72.6	5.[illegible]	.7	.4	.7	.0	1.1

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	84	82	80	76	73	70	66	76.4	339
06&09	83	81	79	76	72	70	68	75.8	596
12&15	80	78	77	74	71	68	63	74.2	298
18&21	81	80	78	74	70	66	62	74.1	607
TOT	84	81	79	75	71	68	62	75.1	1840

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	18.0	41.0	24.6	16.4	79	61
06&09	.0	5.9	9.4	38.8	23.5	22.4	79	85
12&15	.0	2.0	9.8	19.6	41.2	27.5	83	51
18&21	.0	.0	8.0	29.5	35.2	27.3	83	38
TOT	0	6	31	94	87	67	81	285

AUGUST

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1955-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.2S 144.4E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.2	.0	2	.0	.2
9/10	.0	.0	.2	.2	.0	5	.1	.3
7/8	.0	.0	.3	.4	.2	12	.1	.8
6	.0	.0	.2	.9	.1	16	.1	1.2
5	.0	.0	.6	2.3	.4	43	.1	3.2
4	.0	.0	2.6	4.9	.1	99	1.1	6.5
3	.0	.0	6.9	8.8	.1	206	.7	15.1
2	.0	1.2	15.4	5.5	.1	288	.5	21.6
1	.1	1.8	17.2	2.2	.1	278	1.2	20.1
0	.1	2.9	10.5	1.6	.0	197	.7	14.4
-1	.2	1.7	3.7	.5	.0	78	.2	5.8
-2	.2	1.7	2.2	.1	.0	54	.3	3.8
-3	.1	.5	.4	.1	.0	13	.0	1.0
-4	.2	.2	.2	.1	.0	8	.1	.5
-5	.1	.0	.0	.0	.0	1	.0	.1
-7/-8	.1	.0	.1	.0	.0	2	.0	.2
TOTAL	11		789		13		66	1236
		128		361		1302		
PCT	.8	9.8	60.6	27.7	1.0	100.0	5.1	94.9

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	.0	.0	.0	.0	.0	1.4
1-2	.0	2.8	.0	.0	.0	.0	2.8
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.4	2.8	.0	.0	.0	.0	4.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.3	1.4	.0	.0	.0	8.7
3-4	.0	3.5	2.8	.0	.0	.0	6.3
5-6	.0	.0	.0	1.4	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	10.8	4.2	1.4	.0	.0	16.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.2	.0	.0	.0	.0	4.2
1-2	.0	13.5	4.5	.0	.0	.0	18.1
3-4	.0	4.9	29.2	4.2	.0	.0	38.2
5-6	.0	4.2	7.6	.0	.0	.0	11.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	26.7	41.3	4.2	.0	.0	72.2

AUGUST

PERIOD: (OVER-ALL) 1963-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.25 144.4E

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.0	.0	.0	.0	1.0
3-4	.0	2.8	.0	.0	.0	.0	2.8
5-6	.0	.0	2.1	.0	.0	.0	2.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	2.8	3.1	.0	.0	.0	5.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	1.4	.0	.0	.0	.0	1.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	100.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.4	5.6	.0	.0	.0	.0	6.9	
1-2	.0	23.6	6.9	.0	.0	.0	30.6	
3-4	.0	11.1	31.9	4.2	.0	.0	47.2	
5-6	.0	4.2	9.7	1.4	.0	.0	15.3	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	1.4	44.4	48.6	5.6	.0	.0	100.0	72

PERIOD: (OVER-ALL) 1949-1969

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	6.8	23.9	30.7	8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	3
6-7	.0	1.1	10.2	5.7	2.3	1.1	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	5
8-9	.0	.0	1.1	1.1	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.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	
INDET	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	0
TOTAL	9	22	37	13	2	3	2	0	0	0	0	0	0	0	0	0	0	0	0	88	3
PCT	10.2	25.0	42.0	14.8	2.3	3.4	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1896-1969
(OVER-ALL) 1882-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.1S 144.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST BLWG	NO SIG WEA
N	.0	3.3	.0	.0	.0	.0	.0	3.3	.0	.0	4.9	.0	.0	.0		91.5
NE	.0	2.7	.0	.0	.0	.0	.0	2.7	.0	.0	9.0	.0	.0	.0		88.2
E	.0	2.4	.0	.0	.0	.0	.0	2.4	.5	.1	6.4	.0	.8	.0		89.7
SE	.3	2.9	.3	.0	.0	.0	.0	3.5	.3	.1	6.7	.0	1.0	.0		88.5
S	.0	4.3	.0	.0	.0	.0	.0	4.3	.0	.0	3.4	.0	3.8	.0		88.5
SW	.0	13.3	.0	.0	.0	.0	.0	13.3	.0	.0	.0	.0	.0	.0		86.7
W	66.7	.0	.0	.0	.0	.0	.0	66.7	.0	.0	.0	.0	.0	.0		33.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
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	.0	.0		100.0
TOT PCT	.2	2.8	.2	.0	.0	.0	.0	3.2	.3	.1	6.4	.0	1.0	.0		89.0
TOT OBS:	1231															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST BLWG	NO SIG WEA
00&03	.0	2.6	.0	.0	.0	.0	.0	2.6	.9	.0	9.2	.0	1.3	.0		86.0
06&09	.5	1.4	.2	.0	.0	.0	.0	2.1	.2	.2	7.1	.0	1.7	.0		88.7
12&15	.0	4.0	.4	.0	.0	.0	.0	4.4	.0	.0	3.5	.0	.4	.0		91.6
18&21	.2	3.5	.0	.0	.0	.0	.0	3.7	.2	.0	6.2	.0	.2	.0		89.6
TOT PCT	.2	2.7	.2	.0	.0	.0	.0	3.1	.3	.1	6.5	.0	.9	.0		89.0
TOT OBS:	1284															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	1.4	.1	.0	.0	.0		2.6	4.3	.0	3.5	3.3	2.6	.0	3.0	2.4	1.3
NE	1.2	3.2	.2	*	.0	.0		4.6	5.4	.0	3.9	7.1	7.1	1.0	3.7	4.2	2.2
E	4.3	17.5	7.9	1.1	.0	.0		30.8	9.1	13.9	29.9	32.3	33.8	19.2	29.5	31.9	30.3
SE	6.6	29.4	16.9	2.4	.0	.0		55.3	10.0	73.1	55.4	52.1	51.5	73.1	57.1	55.0	56.8
S	.9	3.0	.9	.0	.0	.0		4.8	7.7	9.3	6.6	4.4	3.5	6.7	4.1	3.2	6.3
SW	.1	.3	.0	.1	.0	.0		.5	7.2	3.7	.0	.0	.4	.0	.9	.4	1.1
W	.0	*	.1	.0	.0	.0		.1	11.6	.0	.0	.4	.0	.0	.0	.0	.2
NW	.2	.2	.0	.0	.0	.0		.4	3.7	.0	.0	.4	.6	.0	.4	.7	.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9							.9	.0	.0	.8	.0	.4	.0	1.3	2.2	1.3
TOT OBS	226	815	386	53	0	0	1480		9.1	27	246	247	246	26	232	227	229
TOT PCT	15.3	55.1	26.1	3.6	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.3	.3	.0	.0	.0		2.6	4.3	3.1	3.0	2.7	1.9
NE	3.5	1.1	*	.0	.0		4.6	5.4	3.5	7.1	3.4	3.2
E	12.3	14.4	3.8	.3	.0		30.8	9.1	28.3	33.1	28.5	31.1
SE	17.4	27.6	9.4	.8	.0		55.3	10.0	57.1	51.8	58.7	55.9
S	2.0	2.5	.3	.0	.0		4.8	7.7	6.9	3.9	4.4	4.8
SW	.4	.1	.1	.0	.0		.5	7.2	.4	.2	.8	.8
W	*	.1	.0	.0	.0		.1	11.6	.0	.2	.0	.1
NW	.4	.0	.0	.0	.0		.4	3.7	.0	.5	.4	.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.9						.9	.0	.7	.2	1.2	1.8
TOT OBS	581	681	201	17	0	1480		9.1	273	493	258	456
TOT PCT	39.3	46.0	13.6	1.1	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1896-1969
(OVER-ALL) 1882-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.1S 144.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.7	15.4	53.1	27.5	3.3	.0	.0	9.2	100.0	273
06&09	.2	14.0	55.2	27.6	3.0	.0	.0	9.2	100.0	493
12&15	1.2	12.4	51.6	30.6	4.3	.0	.0	9.6	100.0	238
18&21	1.8	15.1	58.1	21.1	3.9	.0	.0	8.8	100.0	456
TOT	14	212	815	386	53	0	0	9.1		1480
PCT	.9	14.3	55.1	26.1	3.6	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	.0	.0	.0		2.0
NE	.8	.0	.0	.0		1.0
E	12.4	2.8	6.2	1.8		3.1
SE	30.2	18.3	10.6	4.4		3.0
S	3.4	4.6	.8	.0		2.5
SW	.0	.0	.0	1.0		8.0
W	.0	.0	.0	1.0		8.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	1.0	.0	.0	.0		.0
TOT OBS	47	25	17	8	97	3.0
TOT PCT	48.5	25.8	17.5	8.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
E	.0	.0	.0	1.5	2.3	.0	.0	.0	.0	.0	19.3	
SE	.0	1.0	.0	.5	5.9	1.0	.3	.0	.0	.0	54.6	
S	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	8.0	
SW	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
TOT OBS	0	1	0	2	10	1	1	0	0	0	82	97
TOT PCT	.0	1.0	.0	2.1	10.3	1.0	1.0	.0	.0	.0	84.5	100.0

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 >500YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >2000	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >1000	8.2	11.2	12.2	12.2	12.2	12.2	12.2	12.2
= OR >600	10.2	13.3	14.3	14.3	14.3	14.3	14.3	14.3
= OR >300	10.2	13.3	14.3	14.3	14.3	14.3	14.3	14.3
= OR >150	10.2	13.3	15.3	15.3	15.3	15.3	15.3	15.3
= OR > 0	10.2	13.3	15.3	15.3	15.3	15.3	15.3	15.3
TOTAL	10	13	15	15	15	15	15	15

TOTAL NUMBER OF OBS: 98 PCT FREQ NH <5/8: 84.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.6	29.8	21.2	15.4	8.7	2.9	3.8	4.8	2.9	.0	104

SEPTEMBER

PERIOD: (PRIMARY) 1896-1969
(OVER-ALL) 1882-1969

AREA 0001 PRINCESS CHARLOTTE BAY
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.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	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
1/2<1	NO PCP	.1	.4	2.1	4.6	.2	.0	.0	.0	.0	.0	7.4	
	TOT %	.1	.4	2.1	4.8	.2	.0	.0	.0	.0	.0	7.6	
	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1<2	NO PCP	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.1	.3	.0	.0	.0	.0	.0	.0	.4	
	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
2<5	NO PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.2	
	PCP	.1	.1	.6	1.6	.2	.0	.0	.0	.0	.0	2.6	
5<10	NO PCP	2.2	3.7	24.0	41.1	2.9	.5	*	.4	.0	.2	75.1	
	TOT %	2.3	3.8	24.6	42.6	3.1	.5	*	.4	.0	.2	77.7	
	PCP	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.3	
10+	NO PCP	.1	.3	3.9	7.9	1.5	.0	.0	.0	.0	.2	13.8	
	TOT %	.1	.3	4.0	8.0	1.5	.0	.1	.0	.0	.2	14.1	
	TOT OBS												1231
	TOT PCT	2.5	4.5	30.9	55.8	4.8	.6	.1	.4	.0	.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.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	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	*	.1	.4	.6	.0	.0	.0	.0	.0	.0	1.1	
1/2<1	4-10	.1	.3	1.2	2.3	.1	.0	.0	.0	.0		4.0	
	11-21	.0	.0	.3	1.4	.1	.0	.0	.0	.0		1.7	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.1	.4	1.9	4.3	.1	.0	.0	.0	.0	.0	6.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.0	.0	.1	.3	.0	.0	.0	.0	.0	.0	.4	
	0-3	.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	
	11-21	.0	.0	.2	.1	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1	
	TOT %	.0	.0	.2	.1	.0	.1	.0	.0	.0	.0	.4	
	0-3	.7	.9	3.9	5.3	.5	.1	.0	.2	.0	.2	11.9	
5<10	4-10	1.3	2.5	13.3	22.5	2.1	.3	*	.2	.0		42.2	
	11-21	.1	.1	4.8	9.4	.3	.0	.0	.0	.0		14.7	
	22+	.0	.0	.8	1.9	.0	.0	.0	.0	.0		2.7	
	TOT %	2.1	3.5	22.8	39.1	2.9	.5	*	.4	.0	.2	71.6	
	0-3	.2	.1	.3	.8	.4	.0	.0	.0	.0	.6	2.4	
10+	4-10	.2	.4	3.2	4.8	.9	.0	.0	.1	.0		9.7	
	11-21	.0	.1	2.6	5.1	.5	.0	.1	.0	.0		8.3	
	22+	.0	.0	*	.5	.0	.0	.0	.0	.0		.5	
	TOT %	.4	.6	6.2	11.1	1.8	.0	.1	.1	.0	.6	20.9	
	TOT OBS												1357
	TOT PCT	2.6	4.5	31.1	55.0	4.8	.6	.1	.4	.0	.8	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1896-1969
(OVER-ALL) 1862-1969

AREA 0001 PRINCESS CHARLOTTE BAY
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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
00&03	.0	3.6	.0	3.6	10.7	.0	3.6	.0	.0	.0	21.4	78.6	28
06&09	.0	.0	.0	.0	7.1	.0	.0	.0	.0	.0	7.1	92.9	28
12&15	.0	.0	.0	.0	11.5	.0	.0	.0	.0	.0	11.5	88.5	26
18&21	.0	.0	.0	4.5	9.1	4.5	.0	.0	.0	.0	18.2	81.8	22
TOT	0	1	0	2	10	1	1	0	0	0	15	89	104
PCT	.0	1.0	.0	1.9	9.6	1.0	1.0	.0	.0	.0	14.4	85.6	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
00&03	.0	9.4	.4	.8	64.6	24.8	254
06&09	.0	7.8	.2	.4	72.8	18.8	464
12&15	.0	4.1	.8	.4	71.0	23.7	245
18&21	.0	6.3	.2	.0	76.5	17.0	447
TOT	0	98	5	5	1018	284	1410
PCT	.0	7.0	.4	.4	72.2	20.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.6	10.7	10.7	78.6	28
06&09	.0	.0	.0	7.7	92.3	26
12&15	.0	.0	.0	11.5	88.5	26
18&21	.0	.0	5.6	16.7	77.8	18
TOT	0	1	4	11	83	98
PCT	.0	1.0	4.1	11.2	84.7	100.0

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
90/94	.0	.0	.4	.0	.0	.0	.0	.0	1	.4
80/84	.0	.0	.0	.0	.8	5.8	1.2	.8	21	8.7
75/79	.0	.0	.4	.8	2.5	27.0	22.4	14.1	162	67.2
70/74	.0	.0	.0	.0	3.7	6.6	7.1	6.2	57	23.7
TOTAL	0	0	2	2	17	95	74	51	241	100.0
PCT	.0	.0	.8	.8	7.1	39.4	30.7	21.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
	.0	.4	3.9	3.9	.4	.0	.0	.0	.0	.0
	2.0	2.4	16.5	39.5	5.6	.4	.4	.0	.0	.4
	.0	.0	4.1	14.5	3.3	.2	.2	.0	.0	1.2
	2.0	2.8	24.6	58.4	9.3	.6	.6	.0	.0	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	92	84	82	78	74	72	70	78.2	278
06&09	87	83	81	77	74	72	66	77.3	503
12&15	81	79	78	76	73	71	70	75.6	263
18&21	85	81	79	76	73	71	70	75.7	484
TOT	92	83	81	77	73	71	66	76.7	1528

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	3.8	9.4	39.6	26.4	20.8	79	53
06&09	.0	2.5	11.1	43.2	28.4	14.8	80	81
12&15	.0	.0	4.1	51.0	32.7	12.2	80	49
18&21	.0	.0	2.9	27.5	36.2	33.3	84	69
TOT	0	4	18	100	78	52	81	252

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PERIOD: (PRIMARY) 1896-1969
(OVER-ALL) 1887-1969

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.1	.0	1	.0	.1
7/8	.0	.0	.1	.3	1.0	.0	15	.1	1.2
6	.0	.0	.2	.8	1.0	.0	22	.4	1.5
5	.0	.0	.4	1.5	1.6	.1	41	.3	3.2
4	.0	.0	1.1	7.9	.8	.0	112	.9	8.9
3	.0	.0	2.7	10.1	1.5	.0	164	1.3	13.0
2	.0	.1	7.2	10.8	.5	.1	214	1.0	17.7
1	.0	.1	12.2	5.9	.2	.0	210	.7	17.7
0	.0	.1	11.1	4.4	.2	.0	180	.7	15.0
-1	.0	.3	5.0	1.5	.0	.0	78	.4	6.4
-2	.0	.2	4.8	.5	.2	.0	65	.1	5.6
-3	.0	.4	.9	.1	.0	.0	16	.0	1.4
-4	.0	.4	.5	.1	.0	.0	12	.0	1.0
-5	.0	.1	.2	.0	.0	.0	3	.0	.3
-6	.0	.2	.3	.0	.0	.0	6	.0	.5
-7/-8	.1	.1	.0	.1	.0	.0	3	.0	.3
-9/-10	.0	.0	.0	.2	.0	.0	2	.0	.2
TOTAL	1	23	534	505	79	2	1144	69	1075
PCT	.1	2.0	46.7	44.1	6.9	.2	100.0	6.0	94.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.1	.0	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	1.1	.0	.0	.0	.0	1.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	.0	.0	.0	.0	.4
3-4	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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	.7	.0	.0	.0	.0	.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	9.6	1.5	.0	.0	.0	11.0
3-4	.0	4.4	8.1	.0	.0	.0	12.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.5	.0	.0	.0	1.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	14.0	11.0	.0	.0	.0	25.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.8	.0	.0	.0	.0	4.8
1-2	.0	12.9	4.4	.0	.0	.0	17.3
3-4	1.5	1.8	24.6	1.5	.0	.0	29.4
5-6	.0	.0	7.4	1.5	.0	.0	8.8
7	.0	.0	1.5	1.5	.0	.0	2.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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+	1.5	19.5	37.9	4.4	.0	.0	63.2

PERIOD: (OVER-ALL) 1963-1969

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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.2	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.1	2.6	.0	.0	.0	3.7	.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	1.5	.0	.0	1.5
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
TOT PCT	.0	4.4	2.6	.0	.0	.0	7.0	.0	.0	.0	1.5	.0	.0	1.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	1.5	.0	.0	.0	1.5	.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	
TOT PCT	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	5.8	.0	.0	.0	.0	5.8	
1-2	1.4	24.6	5.8	.0	.0	.0	31.9	
3-4	1.4	8.7	36.2	1.4	.0	.0	47.8	
5-6	.0	.0	7.2	1.4	.0	.0	8.7	
7	.0	.0	2.9	2.9	.0	.0	5.8	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	2.9	39.1	52.2	5.8	.0	.0	100.0	69

PERIOD: (OVER-ALL) 1949-1969

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	6.4	30.9	35.1	5.3	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	3
6-7	.0	2.1	7.4	2.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	4
8-9	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
10-11	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
12-13	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2
TOTAL	7	31	42	9	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	3
PCT	7.4	33.0	44.7	9.6	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1888-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	BLWG SPRAY BLWG DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	5.6	.0	89.6
NE	.8	.4	.8	.0	.0	.0	.0	1.9	.8	3.4	5.3	.0	1.3	.0	87.3
E	.5	2.3	.2	.0	.0	.0	.0	3.1	.0	1.1	4.6	.0	1.2	.0	90.3
SE	1.0	4.3	.3	.0	.0	.0	.0	5.5	.0	1.1	9.3	.0	.8	.0	83.9
S	1.3	4.0	.0	.0	.0	.0	.0	5.4	.0	1.3	16.1	.0	.0	.0	78.5
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.8	.0	.0	.0	88.2
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	.0	.0	100.0
TOT PCT	.8	3.1	.3	.0	.0	.0	.0	4.2	.1	1.3	7.4	.0	1.1	.0	86.5
TOT OBS:	1397														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	BLWG SPRAY BLWG DUST SNOW	NO SIG WEA
00&03	.0	3.2	.4	.0	.0	.0	.0	3.6	.0	.0	7.2	.0	.8	.0	88.4
06&09	.8	2.1	.2	.0	.0	.0	.0	3.1	.2	1.0	9.4	.0	2.1	.0	84.5
12&15	.8	2.4	.4	.0	.0	.0	.0	3.6	.0	2.4	4.8	.0	.8	.0	88.7
18&21	1.1	4.0	.2	.0	.0	.0	.0	5.3	.0	1.5	6.7	.0	.2	.0	87.2
TOT PCT	.8	3.0	.3	.0	.0	.0	.0	4.0	.1	1.2	7.4	.0	1.0	.0	86.8
TOT OBS:	1452														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	1.3	.1	.0	.0	.0		2.3	4.1	.0	3.1	2.6	3.0	.0	2.1	2.1	1.1
NE	2.6	5.8	.7	.1	.0	.0		9.1	5.5	5.3	9.9	13.5	10.0	6.6	9.7	7.4	4.5
E	3.0	19.8	9.8	1.4	.0	.0		34.0	9.8	36.8	29.0	33.7	34.7	47.4	36.7	34.7	34.0
SE	2.5	28.5	16.5	2.1	.1	.0		49.7	10.9	39.5	51.7	46.2	50.0	36.8	48.3	51.5	52.2
S	.3	2.0	.6	*	.0	.0		3.0	7.8	13.2	3.7	3.4	1.3	9.2	1.5	1.9	4.6
SW	.1	.2	.0	.0	.0	.0		.3	3.8	.0	.4	.2	.0	.0	.0	.2	1.2
W	.1	.1	.0	.0	.0	.0		.2	4.0	.0	.4	.0	.0	.0	.4	.2	.3
NW	.4	.3	.0	.0	.0	.0		.7	3.8	5.3	.7	.4	.2	.0	.6	1.3	.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0	.0	1.1	.0	.8	.0	.7	.8	1.1
TOT OBS	178	961	459	59	1	0	1658		9.7	19	272	283	265	19	267	264	269
TOT PCT	10.7	58.0	27.7	3.6	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.1	.2	.0	.0	.0		2.3	4.1	2.9	2.8	1.9	1.6
NE	7.0	1.9	.2	*	.0		9.1	5.5	9.6	11.8	9.5	5.9
E	11.0	17.1	5.9	.1	.0		34.0	9.8	29.6	34.2	37.4	34.3
SE	10.2	28.4	10.5	.5	.1		49.7	10.9	50.9	48.0	47.6	51.9
S	1.4	1.4	.1	.0	.0		3.0	7.8	4.3	2.4	2.0	3.3
SW	.3	.0	.0	.0	.0		.3	3.8	.3	.1	.0	.7
W	.2	.0	.0	.0	.0		.2	4.0	.3	.0	.3	.2
NW	.6	.1	.0	.0	.0		.7	3.8	1.0	.3	.5	1.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.7						.7	.0	1.0	.4	.7	.9
TOT OBS	557	815	276	9	1	1658		9.7	291	548	286	533
TOT PCT	33.6	49.2	16.6	.5	.1		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1888-1969

AREA 0001 PRINCESS CHARLOTTE BAY
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.0	12.0	57.7	27.1	2.1	.0	.0	9.2	100.0	291
06&09	.4	7.8	59.9	28.5	3.5	.0	.0	9.8	100.0	548
12&15	.7	10.1	53.5	30.4	5.2	.0	.0	10.1	100.0	286
18&21	.9	11.1	58.5	25.7	3.6	.2	.0	9.5	100.0	533
TOT	12	166	961	459	59	1	0	9.7		1658
PCT	.7	10.0	58.0	27.7	3.6	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	.0	.0	1.0		4.0
NE	1.7	1.4	4.7	1.7		4.9
E	10.5	17.2	10.8	3.4		3.7
SE	13.9	16.9	7.4	2.0		3.4
S	1.0	1.0	1.4	1.4		5.1
SW	.0	.0	.0	.0		.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	1.4	.0		6.0
TOT OBS	21	27	19	7	74	3.8
TOT PCT	28.4	36.5	25.7	9.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	
NE	.0	.0	.0	.0	2.7	.3	.0	.0	.0	.0	6.4	
E	.0	.0	.0	1.4	4.7	2.0	3.7	.0	.0	.0	30.1	
SE	.0	.0	.0	.0	7.4	1.7	.3	.0	.0	.0	30.7	
S	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	2.0	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
TOT OBS	0	0	0	1	13	3	3	0	0	0	54	74
TOT PCT	.0	.0	.0	1.4	17.6	4.1	4.1	.0	.0	.0	73.0	100.0

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 >500YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
= OR >2000	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
= OR >1000	21.6	25.7	25.7	25.7	25.7	25.7	25.7	25.7
= OR >600	23.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
= OR >300	23.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
= OR >150	23.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
= OR > 0	23.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
TOTAL	17	20	20	20	20	20	20	20

TOTAL NUMBER OF OBS: 74 PCT FREQ NH <5/8: 73.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.0	20.5	19.2	12.8	11.5	10.3	9.0	3.8	3.8	.0	78

OCTOBER

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1888-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.1S 144.3E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.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	
	NO PCP	.1	.5	1.9	5.2	.4	.0	.0	.1	.0	.0	8.2	
	TOT %	.1	.5	1.9	5.2	.4	.0	.0	.1	.0	.0	8.2	
1<2	PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	*	.2	.2	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	*	.2	.3	.0	.0	.0	.0	.0	.0	.5	
2<5	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.4	
5<10	PCP	.0	.1	1.0	2.8	.1	.0	.0	.0	.0	.0	4.0	
	NO PCP	2.0	8.0	27.0	37.3	1.7	.3	.2	.5	.0	.1	77.1	
	TOT %	2.0	8.1	28.0	40.1	1.9	.3	.2	.5	.0	.1	81.1	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.6	3.7	4.7	.4	.1	.1	.1	.0	.0	9.7	
	TOT %	.1	.6	3.7	4.7	.4	.1	.1	.1	.0	.0	9.7	
	TOT OBS												1394
	TOT PCT	2.2	9.4	34.0	50.4	2.7	.3	.2	.6	.0	.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.1	.1	.2	.3	.0	.0	.0	.0	.0	.0	.7	
	4-10	*	.3	.8	3.0	.4	.0	.0	.1	.0		4.6	
	11-21	.0	.1	.7	1.4	.0	.0	.0	.0	.0		2.2	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.1	.5	1.7	4.7	.4	.0	.0	.1	.0	.0	7.5	
1<2	0-3	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.1	.2	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.2	.2	.0	.0	.0	.0	.0	.0	.5	
2<5	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.1	.1	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	*	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.2	.2	.0	.0	.0	.0	.0	.0	.5	
5<10	0-3	.8	2.1	2.1	2.1	.3	.1	.1	.2	.0	.2	8.0	
	4-10	1.0	4.7	16.0	22.4	1.2	.2	.1	.2	.0		45.9	
	11-21	.1	.6	6.2	9.9	.2	.0	.0	.0	.0		16.9	
	22+	.0	.1	1.3	2.1	*	.0	.0	.0	.0		3.4	
	TOT %	1.8	7.4	25.7	36.6	1.8	.2	.2	.5	.0	.2	74.3	
10+	0-3	.1	.3	.5	.2	.1	.1	.0	.1	.0	.2	1.6	
	4-10	.1	.8	3.7	2.7	.4	*	*	.1	.0		9.0	
	11-21	.0	.1	2.3	4.0	.2	.0	.0	.0	.0		6.6	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.2	1.3	6.6	8.0	.7	.1	*	.1	.0	.2	17.2	
	TOT OBS												1538
	TOT PCT	2.2	9.3	34.4	49.7	2.8	.3	.2	.7	.0	.4	100.0	

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PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1888-1969

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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
00&03	.0	.0	.0	.0	22.2	5.6	.0	.0	.0	.0	27.8	72.2	18
06&09	.0	.0	.0	.0	7.7	3.8	3.8	.0	.0	.0	15.4	84.6	26
12&15	.0	.0	.0	.0	18.8	.0	.0	.0	.0	.0	18.8	81.3	16
18&21	.0	.0	.0	5.9	23.5	5.9	11.8	.0	.0	.0	47.1	52.9	17
TOT	0	0	0	1	13	3	3	0	0	0	20	57	77
PCT	.0	.0	.0	1.3	16.9	3.9	3.9	.0	.0	.0	26.0	74.0	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
00&03	.0	7.1	.4	.4	69.6	22.5	280
06&09	.0	9.0	.8	.6	75.4	14.2	521
12&15	.0	5.2	.4	.4	77.0	17.1	269
18&21	.2	7.3	.2	.6	76.1	15.7	523
TOT	1	119	7	8	1193	265	1593
PCT	.1	7.5	.4	.5	74.9	16.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	.0	31.3	68.8	16
06&09	.0	.0	4.0	16.0	80.0	25
12&15	.0	.0	.0	18.8	81.3	16
18&21	.0	.0	5.9	41.2	52.9	17
TOT	0	0	2	19	53	74
PCT	.0	.0	2.7	25.7	71.6	100.0

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
85/89	.0	.0	.0	.4	.0	.9	.9	.4	6	2.6
80/84	.0	.0	.0	1.3	6.4	8.6	4.3	2.6	54	23.2
75/79	.0	.0	.0	.0	7.7	30.0	23.2	10.3	166	71.2
70/74	.0	.0	.0	.0	.4	.0	1.3	1.3	7	3.0
TOTAL	0	0	0	4	34	92	69	34	233	100.0
PCT	.0	.0	.0	1.7	14.6	39.5	29.6	14.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	1.3	1.3	.0	.0	.0	.0	.0	.0
1.3	1.8	7.2	11.1	1.4	.1	.3	.0	.0	.0
4.0	5.8	25.1	34.0	.6	.0	.0	.9	.0	.9
.0	.0	1.1	1.2	.3	.0	.2	.2	.0	.0
5.3	7.6	34.7	47.5	2.4	.1	.5	1.1	.0	.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	92	86	84	80	77	75	74	80.4	299
06&09	89	85	83	80	77	75	75	79.7	559
12&15	82	81	80	78	75	73	72	77.8	289
18&21	86	83	81	78	75	73	70	78.1	563
TOT	92	85	83	79	76	74	70	79.0	1710

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	4.2	27.1	41.7	20.8	6.3	74	48
06&09	.0	1.3	14.1	43.6	26.9	14.1	78	78
12&15	.0	2.5	5.0	37.5	35.0	20.0	81	40
18&21	.0	.0	11.0	32.9	35.6	20.5	81	73
TOT	0	4	34	93	71	37	79	239

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PERIOD: (PRIMARY) 1897-1969
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	WO FOG
11/13	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.2	.0	.1	4	.0	.3
7/8	.0	.0	.1	.7	.1	.0	11	.0	.9
6	.0	.0	.1	.6	.2	.0	11	.2	.7
5	.0	.0	.6	1.7	.2	.0	30	.0	2.4
4	.0	.0	3.2	2.4	.5	.0	76	.2	5.9
3	.0	.3	5.2	5.1	.2	.0	137	.8	10.1
2	.0	1.6	12.9	6.1	.2	.0	262	1.0	19.8
1	.0	1.8	17.7	4.1	.0	.0	298	2.5	21.1
0	.0	2.8	17.6	1.1	.0	.0	271	2.7	18.8
-1	.1	2.1	5.2	.1	.0	.0	94	.8	6.7
-2	.0	1.0	1.6	.0	.0	.0	33	.1	2.5
-3	.1	1.0	.4	.0	.0	.0	18	.0	1.4
-4	.0	.3	.2	.0	.0	.0	6	.0	.5
-5	.0	.2	.0	.0	.0	.0	2	.0	.2
-6	.0	.2	.0	.0	.0	.0	3	.0	.2
-7/-8	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	3	143	814	278	18	2	1258	104	1154
PCT	.2	11.4	64.7	22.1	1.4	.2	100.0	8.3	91.7

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.2	.0	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	1.2	.0	.0	.0	.0	1.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	3.2	.0	.0	.0	.0	4.8
1-2	.0	1.6	.0	.0	.0	.0	1.6
3-4	.0	.4	.4	.0	.0	.0	.8
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.6	5.2	.8	.0	.0	.0	7.7

F

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	12.5	1.6	.0	.0	.0	14.1
3-4	.0	2.8	12.1	.0	.0	.0	14.9
5-6	.0	.0	5.6	.0	.0	.0	5.6
7	.0	.0	3.2	.0	.0	.0	3.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	16.9	22.6	.0	.0	.0	39.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.8	.0	.0	.0	.0	4.8
1-2	.0	10.1	3.2	.0	.0	.0	13.3
3-4	.0	.8	5.2	1.6	.0	.0	7.7
5-6	.0	.0	13.3	.0	.0	.0	13.3
7	.0	.0	6.5	.0	.0	.0	6.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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	13.7	28.2	1.6	.0	.0	45.6

PERIOD: (OVER-ALL) 1963-1968

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TABLE 18 (CONT)

AREA 0001 PRINCESS CHARLOTTE BAY
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.2	1.6	.0	.0	.0	2.8	.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	1.6	.0	.0	.0	1.6	.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
TOT PCT	.0	1.2	3.2	.0	.0	.0	4.4	.0	.0	.0	.0	.0	.0	.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	1.6	
3-4	.0	.0	.0	.0	.0	.0	.0	.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	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	1.6	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.6	9.7	.0	.0	.0	.0	11.3	
1-2	.0	25.8	4.8	.0	.0	.0	30.6	
3-4	.0	6.5	19.4	1.6	.0	.0	27.4	
5-6	.0	.0	19.4	.0	.0	.0	19.4	
7	.0	.0	11.3	.0	.0	.0	11.3	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
								62
TOT PCT	1.6	41.9	54.8	1.6	.0	.0	100.0	

PERIOD: (OVER-ALL) 1950-1969

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	11.3	19.7	22.5	12.7	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	3
6-7	.0	.0	5.6	2.8	8.5	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	6
8-9	.0	.0	.0	2.8	1.4	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	0
TOTAL	9	14	22	13	11	1	1	0	0	0	0	0	0	0	0	0	0	0	0	71	4
PCT	12.7	19.7	31.0	18.3	15.5	1.4	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1896-1969
(OVER-ALL) 1884-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.0S 144.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.8	1.9	.0	.0	.0	.0	.0	5.7	.0	7.7	8.6	.0	1.4	.0		80.4
NE	1.7	.6	.0	.0	.0	.0	.3	2.6	.0	5.8	9.7	.0	2.0	.0		81.6
E	1.5	3.4	.1	.0	.0	.0	.4	5.5	.0	1.0	3.2	.0	1.9	.0		88.9
SE	2.8	9.4	.1	.0	.0	.0	.4	12.7	.0	1.3	6.9	.0	1.4	.0		78.2
S	7.2	7.2	.0	.0	.0	.0	.0	14.4	.0	6.0	6.0	.0	2.4	.0		76.0
SW	14.3	.0	.0	.0	.0	.0	.0	14.3	.0	.0	14.3	.0	.0	.0		71.4
W	26.7	.0	.0	.0	.0	.0	.0	26.7	.0	33.3	13.3	.0	.0	.0		53.3
NW	10.7	2.7	.0	.0	.0	.0	.0	13.4	.0	9.4	18.8	.0	.7	.0		60.4
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	.0	.0		100.0
TOT PCT	2.8	5.6	.1	.0	.0	.0	.4	8.8	.0	2.6	6.4	.0	1.6	.0		81.7
TOT OBS:	1361															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	1.2	3.9	.0	.0	.0	.0	.0	5.0	.0	.4	6.6	.0	1.5	.0		86.9
06609	3.4	4.5	.2	.0	.0	.0	1.1	9.1	.0	4.0	6.2	.0	2.3	.0		79.4
12615	4.9	6.6	.0	.0	.0	.0	.0	11.5	.0	4.5	5.3	.0	.4	.0		80.2
18621	2.4	6.8	.0	.0	.0	.0	.0	9.2	.0	1.8	7.7	.0	1.3	.0		81.4
TOT PCT	2.9	5.5	.1	.0	.0	.0	.3	8.8	.0	2.7	6.6	.0	1.5	.0		81.5
TOT OBS:	1430															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	2.9	.2	.0	.0	.0		4.3	5.5	8.6	2.9	5.1	4.6	11.9	5.6	3.6	2.5
NE	4.8	6.4	.6	.0	.0	.0		11.8	4.9	3.9	9.6	17.3	15.7	4.8	11.1	10.3	7.9
E	3.2	19.6	9.6	1.1	.0	.0		33.4	9.6	49.2	35.6	31.6	30.2	22.6	34.6	35.0	32.5
SE	5.0	21.6	15.2	1.3	.0	.0		43.0	10.3	24.2	43.3	41.0	42.9	44.0	42.6	45.5	44.5
S	.6	1.9	.6	*	.0	.0		3.2	7.9	13.3	3.6	2.6	2.2	14.3	1.2	1.2	6.2
SW	.2	.3	.0	.0	.0	.0		.5	4.8	.0	.5	.0	.2	.0	.2	.6	1.6
W	.4	.1	.0	.0	.0	.0		.5	2.6	.0	.4	.0	1.0	.0	.4	.6	.6
NW	1.2	1.6	*	.0	.0	.0		2.8	4.8	.8	2.9	1.6	3.0	2.4	3.9	2.4	3.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6							.6	.0	.0	1.1	.0	.4	.0	.4	.8	.8
TOT OBS	277	886	427	39	0	0	1629		8.9	32	275	284	252	21	257	250	258
TOT PCT	17.0	54.4	26.2	2.4	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.0	1.2	.0	.0	.0		4.3	5.5	3.5	4.9	6.1	3.1
NE	9.1	2.5	.1	.0	.0		11.8	4.9	9.0	16.5	10.6	9.1
E	10.9	17.7	4.8	.1	.0		33.4	9.6	37.1	30.9	33.7	33.7
SE	11.0	23.8	8.1	.1	.0		43.0	10.3	41.3	42.3	42.7	45.0
S	1.5	1.4	.3	.0	.0		3.2	7.9	4.6	2.4	2.2	3.7
SW	.4	.1	.0	.0	.0		.5	4.8	.5	.1	.2	1.1
W	.5	.0	.0	.0	.0		.5	2.6	.3	.5	.4	.6
NW	2.1	.7	.0	.0	.0		2.8	4.8	2.7	2.2	3.8	3.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.6						.6	.0	1.0	.2	.4	.8
TOT OBS	636	773	216	4	0	1629		8.9	307	536	278	508
TOT PCT	39.0	47.5	13.3	.2	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1896-1969
(OVER-ALL) 1884-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.0S 144.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.0	18.9	55.7	23.5	1.0	.0	.0	8.1	100.0	307
06&09	.2	15.7	54.5	26.9	2.8	.0	.0	9.1	100.0	336
12&15	.4	15.8	48.6	30.9	4.3	.0	.0	9.6	100.0	278
18&21	.8	16.1	56.7	24.6	1.8	.0	.0	8.6	100.0	308
TOT	9	268	886	427	39	0	0	8.9		1629
PCT	.6	16.5	54.4	26.2	2.4	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.7	2.2	3.0	.0		3.4
NE	4.6	1.3	1.1	.0		2.6
E	19.1	13.4	5.6	4.3		3.0
SE	12.9	12.9	4.6	1.1		2.8
S	1.1	4.6	3.8	.0		3.7
SW	.0	.0	.0	.0		.0
W	.0	.0	.0	.0		.0
NW	.5	.0	.3	.0		3.0
VAR	.0	.0	.0	.0		.0
CALM	1.1	.0	.0	.0		1.0
TOT OBS	39	32	17	5	93	3.0
TOT PCT	41.9	34.4	18.3	5.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	1.1	.8	.0	.0	.0	5.9	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	
E	.0	.0	.0	1.1	1.9	.0	.0	.0	1.9	.0	37.6	
SE	.0	.0	.0	.3	.5	.0	1.1	.0	.3	.0	29.3	
S	.0	.0	.0	.8	.8	.0	1.1	.0	.0	.0	6.7	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
TOT OBS	0	0	0	2	3	1	3	0	2	0	82	93
TOT PCT	.0	.0	.0	2.2	3.2	1.1	3.2	.0	2.2	.0	88.2	100.0

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 >50YD	= OR >0
= OR >6500	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >5000	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >3500	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
= OR >2000	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
= OR >1000	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
= OR >600	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
= OR >300	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
= OR >150	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
= OR > 0	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
TOTAL	11	11	11	11	11	11	11	11

TOTAL NUMBER OF OBS: 98 PCT FREQ NH <5/8: 88.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.1	27.1	21.5	16.8	8.4	7.5	4.7	.9	.0	.0	107

NOVEMBER

PERIOD: (PRIMARY) 1896-1969
(OVER-ALL) 1884-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.05 144.3E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	*	.0	.4	.9	.2	.0	.0	.1	.0	.0	1.6	
	NO PCP	.2	1.1	1.4	3.9	.2	*	.1	.6	.0	.0	7.5	
	TOT %	.3	1.1	1.7	4.8	.4	*	.1	.7	.0	.0	9.1	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.4	.6	.1	.0	.0	.0	.0	.0	1.0	
	TOT %	.0	.0	.4	.6	.1	.0	.0	.0	.0	.0	1.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.1	.3	1.4	4.5	.3	*	.1	.3	.0	.0	7.1	
	NO PCP	2.7	10.7	25.2	29.1	1.7	.1	.3	1.7	.0	.3	71.9	
	TOT %	2.8	11.0	26.6	33.7	2.0	.1	.5	2.0	.0	.3	79.0	
10+	PCP	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.7	.8	4.7	3.7	.6	.1	.0	.1	.0	.1	10.7	
	TOT %	.8	.8	4.8	3.7	.6	.1	.0	.1	.0	.1	10.9	
	TOT OBS												1361
	TOT PCT	3.8	12.9	33.5	42.7	3.1	.3	.6	2.7	.0	.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.1	.6	.2	.5	.0	.0	.1	.4	.0	.0	1.8	
	4-10	.1	.5	.9	2.6	.3	*	.0	.2	.0		4.6	
	11-21	.0	.0	.4	1.2	.1	.0	.0	.0	.0		1.7	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		.1	
	TOT %	.2	1.0	1.6	4.3	.3	*	.1	.6	.0	.0	8.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.2	.1	.0	.0	.0	.0		.5	
	11-21	.0	.0	.1	.3	.0	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.3	.5	.1	.0	.0	.0	.0	.0	.9	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	0-3	.6	4.0	2.6	4.3	.6	.1	.3	.7	.0	.3	13.6	
	4-10	1.9	5.4	14.4	15.0	1.0	.1	.1	1.0	.0		39.0	
	11-21	.1	.4	6.8	10.8	.1	.0	.0	*	.0		18.2	
	22+	.0	.0	1.0	.9	*	.0	.0	.0	.0		1.9	
	TOT %	2.6	9.9	24.7	31.1	1.8	.2	.4	1.8	.0	.3	72.8	
10+	0-3	.4	.4	.6	.4	.0	.1	.0	*	.0	.3	2.1	
	4-10	.5	.5	4.1	3.4	.6	.1	.0	*	.0		9.1	
	11-21	.0	.2	2.4	3.4	.3	.0	.0	.0	.0		6.3	
	22+	.0	.0	.2	.4	.0	.0	.0	.0	.0		.6	
	TOT %	.9	1.0	7.2	7.6	.9	.1	.0	*	.0	.3	18.1	
	TOT OBS												1509
	TOT PCT	3.7	12.0	33.8	43.6	3.1	.4	.5	2.5	.0	.5	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1896-1969
(OVER-ALL) 1884-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.05 144.3E

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
00&03	.0	.0	.0	6.1	6.1	.0	3.0	.0	6.1	.0	21.2	78.8	33
06&09	.0	.0	.0	.0	3.1	.0	.0	.0	.0	.0	3.1	96.9	32
12&15	.0	.0	.0	.0	.0	5.0	5.0	.0	.0	.0	10.0	90.0	20
18&21	.0	.0	.0	.0	.0	.0	5.3	.0	.0	.0	5.3	94.7	19
TOT	0	0	0	2	3	1	3	0	2	0	11	93	104
PCT	.0	.0	.0	1.9	2.9	1.0	2.9	.0	1.9	.0	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
00&03	.0	7.9	.7	.0	65.2	26.2	290
06&09	.0	9.1	1.4	.0	73.3	16.1	514
12&15	.0	6.8	.4	.0	77.4	15.5	265
18&21	.0	8.4	.8	.0	75.0	15.7	509
TOT	0	131	14	0	1153	280	1578
PCT	.0	8.3	.9	.0	73.1	17.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	6.3	15.6	78.1	32
06&09	.0	.0	.0	3.3	96.7	30
12&15	.0	.0	.0	10.5	89.5	19
18&21	.0	.0	.0	5.9	94.1	17
TOT	0	0	2	9	87	98
PCT	.0	.0	2.0	9.2	88.8	100.0

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
90/94	.0	.0	.0	.4	.0	.0	.0	.0	1	.4
85/89	.0	.0	.0	.4	2.2	3.6	1.1	.0	20	7.2
80/84	.0	.0	.0	.4	7.2	26.6	21.9	1.4	160	57.6
75/79	.0	.0	.0	.4	.4	14.0	16.2	4.0	97	34.9
TOTAL	0	0	0	4	27	123	109	15	278	100.0
PCT	.0	.0	.0	1.4	9.7	44.2	39.2	5.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0
	.4	.2	3.9	2.2	.2	.0	.4	.0	.0	.0
	3.6	4.0	23.7	19.4	3.9	.0	.4	1.6	.0	1.1
	1.2	3.6	13.2	15.6	.7	.0	.0	.3	.0	.4
	5.1	7.7	41.0	37.3	4.8	.0	.7	1.9	.0	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	92	89	86	82	79	77	76	82.4	314
06&09	92	87	85	82	78	76	72	81.6	541
12&15	86	84	83	80	77	75	75	79.8	285
18&21	87	85	83	80	77	75	70	79.9	546
TOT	92	86	85	81	77	75	70	80.9	1686

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	21.9	39.1	39.1	.0	76	64
06&09	.0	3.3	11.0	57.1	25.3	3.3	76	91
12&15	.0	.0	.0	44.0	46.0	10.0	81	50
18&21	.0	1.2	3.6	34.5	51.2	9.5	82	84
TOT	0	4	27	128	114	16	79	289

NOVEMBER

AREA 0001 PRINCESS CHARLOTTE BAY
14.0S 144.3E

PERIOD: (PRIMARY) 1896-1969
(OVER-ALL) 1884-1969

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.1	.1	.0	.1	3	.1	.2
7/8	.0	.1	.2	.3	.1	7	.0	.6
6	.0	.0	.1	.6	.0	8	.0	.7
5	.0	.1	1.4	1.5	.1	36	.1	3.0
4	.0	.4	5.0	1.5	.1	83	.3	6.8
3	.0	1.8	9.6	1.1	.0	147	.4	12.1
2	.0	4.7	11.1	1.3	.0	200	.8	16.3
1	.0	9.6	9.8	.8	.0	237	1.4	18.9
0	.2	10.0	9.0	.2	.0	226	1.5	17.8
-1	.5	6.6	2.7	.0	.0	115	1.3	8.5
-2	.7	4.0	1.5	.0	.0	72	.6	5.5
-3	.6	.9	.4	.1	.0	23	.2	1.8
-4	.3	.3	.2	.0	.0	9	.0	.8
-5	.2	.2	.0	.0	.0	4	.0	.3
-7/-8	.1	.1	.0	.0	.0	2	.1	.1
TOTAL	29	455	598	86	4	1172	77	1095
PCT	2.5	38.8	51.0	7.3	.3	100.0	6.6	93.4

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	.0	.0	.0	.0	.0	1.0
1-2	1.0	2.4	.0	.0	.0	.0	3.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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	4.5
TOT PCT	2.1	2.4	.0	.0	.0	.0	

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	.0	.0	.0	.0	.0	1.4
1-2	.0	4.2	.3	.0	.0	.0	4.5
3-4	.0	1.4	.0	.0	.0	.0	1.4
5-6	.0	.0	1.7	.0	.0	.0	1.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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	9.0
TOT PCT	1.4	5.6	2.1	.0	.0	.0	

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	4.2	6.6	1.0	.0	.0	.0	11.8
1-2	1.4	9.4	3.1	.0	.0	.0	13.9
3-4	.0	5.9	7.6	1.4	.0	.0	14.9
5-6	.0	.0	4.5	.0	.0	.0	4.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	5.6	21.9	16.3	1.4	.0	.0	45.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.8	1.7	.3	.0	.0	.0	4.9
1-2	.0	10.4	.7	.0	.0	.0	11.1
3-4	.0	4.5	6.3	.0	.0	.0	10.8
5-6	.0	.0	3.5	.0	.0	.0	3.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	2.8	16.7	10.8	.0	.0	.0	30.2

PERIOD: (OVER-ALL) 1963-1969

NOVEMBER

TABLE 18 (CONT)

AREA 0001 PRINCESS CHARLOTTE BAY
14.0S 144.3E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	4.9	1.4	.0	.0	.0	6.3	.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
TOT PCT	.0	7.3	1.4	.0	.0	.0	8.7	.0	.0	.0	.0	.0	.0	.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
1-2	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.7	
3-4	.0	.0	.0	.0	.0	.0	.0	.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	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.7	.3	.0	.0	.0	.0	1.0	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	15.4	11.5	1.3	.0	.0	.0	28.2	
1-2	2.6	25.6	3.8	.0	.0	.0	32.1	
3-4	.0	15.4	14.1	1.3	.0	.0	30.8	
5-6	.0	.0	9.0	.0	.0	.0	9.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	17.9	52.6	28.2	1.3	.0	.0	100.0	78

PERIOD: (OVER-ALL) 1949-1969

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	9.0	27.0	23.6	3.4	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	2
6-7	.0	.0	1.1	4.5	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	6
8-9	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
10-11	.0	1.1	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
12-13	.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	
INDET	15.7	2.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	0
TOTAL	22	27	23	11	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	89	2
PCT	24.7	30.3	25.8	12.4	5.6	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

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PERIOD: (PRIMARY) 1898-1969
(OVER-ALL) 1880-1969

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.9	1.4	1.4	.0	.0	.0	.0	5.8	.0	22.3	8.6	.0	.7	.0		64.0
NE	1.7	1.3	.9	.0	.0	.0	.0	3.9	.0	6.5	12.6	.0	.9	.0		76.1
E	.6	4.7	.2	.0	.0	.0	.4	5.9	1.0	2.2	4.2	.0	.4	.0		86.4
SE	4.1	15.4	.5	.0	.0	.0	.0	20.0	.2	4.5	10.7	.0	.3	.0		66.7
S	13.3	9.6	.0	.0	.0	.0	.0	22.9	.0	2.4	4.8	.0	.0	.0		72.3
SW	20.7	.0	.0	.0	.0	.0	.0	20.7	.0	13.8	13.8	.0	.0	.0		58.6
W	4.4	4.4	.0	.0	.0	.0	.0	8.8	.0	4.4	8.8	.0	.0	.0		82.4
NW	6.3	3.2	.0	.0	.0	.0	.0	9.5	.0	19.8	15.8	.0	.8	.0		57.3
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	.0	.0		100.0
TOT PCT	3.6	7.8	.5	.0	.0	.0	.1	12.0	.3	6.7	9.0	.0	.5	.0		73.2
TOT OBS:	887															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.8	5.5	.6	.0	.0	.0	.0	8.8	.6	1.1	11.0	.0	.6	.0		78.5
06&09	3.6	5.2	.3	.0	.0	.0	.0	9.2	.3	8.5	7.9	.0	.7	.0		75.1
12&15	3.6	8.9	1.2	.0	.0	.0	.0	13.7	.6	16.7	7.1	.0	.0	.0		64.3
18&21	6.3	10.3	.0	.0	.0	.0	.3	17.0	.3	6.0	11.0	.0	.7	.0		67.7
TOT PCT	4.3	7.5	.4	.0	.0	.0	.1	12.4	.4	7.8	9.3	.0	.5	.0		71.5
TOT OBS:	954															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.5	6.7	.5	.0	.0	.0		8.7	6.0	4.4	10.2	10.0	11.0	12.9	8.2	7.5	5.3
NE	3.0	8.4	1.2	.1	*	.0		12.7	6.3	4.4	15.2	22.6	14.0	19.8	6.6	8.6	7.3
E	2.3	16.3	6.4	1.0	*	.0		26.0	8.9	38.2	23.2	24.8	31.0	32.8	28.5	25.1	21.1
SE	2.9	19.8	8.9	2.4	*	.0		34.1	10.3	35.3	33.9	31.7	31.8	28.4	37.3	33.9	37.1
S	.5	2.6	.6	.4	.1	.0		4.2	10.7	8.1	3.0	2.8	3.0	2.6	3.0	5.1	8.2
SW	.4	1.4	.0	.0	.0	.0		1.8	4.9	.7	2.3	.7	1.2	.0	1.8	3.5	1.8
W	1.0	1.7	.3	.0	.0	.0		3.0	5.4	2.9	2.0	2.2	1.2	.0	2.7	3.1	7.7
NW	2.6	4.4	.4	.1	.0	.0		7.4	5.5	5.9	7.6	4.4	6.3	3.4	8.7	11.0	8.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0	.0	2.5	1.0	.6	.0	3.0	2.2	3.5
TOT OBS	186	704	210	46	3	0	1149		8.2	34	197	206	168	29	164	180	171
TOT PCT	16.2	61.3	18.3	4.0	.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.9	2.7	.1	.0	.0		8.7	6.0	9.3	10.4	8.9	6.4
NE	8.4	3.9	.3	.1	.0		12.7	6.3	13.6	18.7	8.5	8.0
E	11.6	11.7	2.5	.2	.0		26.0	8.9	25.4	27.5	29.1	23.1
SE	9.9	18.2	5.4	.6	.0		34.1	10.3	34.1	31.8	36.0	35.5
S	2.0	1.3	.4	.5	.0		4.2	10.7	3.8	2.9	3.0	6.6
SW	1.5	.3	.0	.0	.0		1.8	4.9	2.1	.9	1.6	2.6
W	2.5	.3	.3	.0	.0		3.0	5.4	2.2	1.7	2.3	5.3
NW	5.2	2.1	.1	.0	.0		7.4	5.5	7.4	5.2	7.9	9.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.0						2.0	.0	2.2	.6	2.6	2.8
TOT OBS	564	485	104	16	0	1149		8.2	231	374	193	351
TOT PCT	49.1	40.5	9.1	1.4	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.2	16.0	63.2	14.7	3.5	.4	.0	7.7	100.0	231
06&09	.8	10.7	62.0	21.9	4.5	.0	.0	8.7	100.0	374
12&15	2.6	15.5	55.4	21.2	4.7	.5	.0	8.7	100.0	193
18&21	2.8	16.0	62.4	15.1	3.4	.3	.0	7.9	100.0	351
TOT	23	163	704	210	46	3	0	8.2		1149
PCT	2.0	14.2	61.3	18.3	4.0	.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.1	.6	3.3	.0		4.1
NE	4.7	2.2	3.1	.8		3.5
E	11.2	8.9	8.3	3.7		3.9
SE	9.3	7.3	12.0	4.9		4.3
S	.0	.0	2.6	1.4		6.8
SW	.0	.0	.2	.2		6.5
W	1.4	.8	2.4	.0		4.4
NW	2.6	1.6	1.2	.0		3.3
VAR	.0	.0	.0	.0		.0
CALM	1.6	.8	.0	.0		1.6
TOT OBS	43	28	42	14	127	4.1
TOT PCT	33.9	22.0	33.1	11.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.8	1.4	.0	.0	.0	.0	4.9	
NE	.0	.0	.8	.0	.8	.2	.0	.8	.0	.0	8.3	
E	.0	.0	.6	1.8	3.9	.6	1.2	.0	.0	.0	24.0	
SE	.0	.0	.2	.6	4.7	2.8	.4	.0	.0	.0	24.8	
S	.0	.0	.0	.6	.8	.6	.0	.0	.0	.0	2.0	
SW	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
W	.0	.0	.0	.0	1.6	.8	.0	.0	.0	.0	2.2	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	
TOT OBS	0	0	2	4	16	8	2	1	0	0	94	127
TOT PCT	.0	.0	1.6	3.1	12.6	6.3	1.6	.8	.0	.0	74.0	100.0

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 >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.8	.8	.8	.8	.8	.8	.8	.8
= OR >3500	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
= OR >2000	7.7	7.7	8.5	8.5	8.5	8.5	8.5	8.5
= OR >1000	18.5	20.8	21.5	21.5	21.5	21.5	21.5	21.5
= OR >600	21.5	23.8	24.6	24.6	24.6	24.6	24.6	24.6
= OR >300	23.1	25.4	26.2	26.2	26.2	26.2	26.2	26.2
= OR >150	23.1	25.4	26.2	26.2	26.2	26.2	26.2	26.2
= OR > 0	23.1	25.4	26.2	26.2	26.2	26.2	26.2	26.2
TOTAL	30	33	34	34	34	34	34	34

TOTAL NUMBER OF OBS: 130

PCT FREQ NH <5/8: 73.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.4	28.2	12.8	17.0	10.6	6.4	8.5	7.1	5.0	.0	141

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.1	.0	.0	1.1	.2	.3	.1	.2	.0	.0	2.0	
	NO PCP	1.1	1.9	1.4	4.2	.2	.2	.2	1.7	.0	.0	10.8	
	TOT %	1.2	1.9	1.4	5.2	.3	.6	.3	1.9	.0	.0	12.9	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
2<5	PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
5<10	PCP	.2	.4	1.5	5.5	.8	.0	.1	.5	.0	.0	9.0	
	NO PCP	4.5	7.7	17.1	17.4	2.7	1.0	.9	3.5	.0	.5	55.2	
	TOT %	4.7	8.1	18.6	22.9	3.5	1.0	1.0	3.9	.0	.5	64.2	
10+	PCP	.0	.1	.1	.5	.1	.0	.0	.0	.0	.0	.8	
	NO PCP	1.7	3.0	7.0	6.7	.6	.1	1.2	1.2	.0	.3	21.9	
	TOT %	1.7	3.1	7.1	7.2	.8	.1	1.2	1.2	.0	.3	22.7	
	TOT OBS												886
	TOT PCT	7.8	13.0	27.1	35.3	4.6	1.6	2.6	7.1	.0	.8	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.3	1.0	.3	1.5	.0	.2	.2	1.0	.0	.1	4.6	
	4-10	.7	.6	.8	2.4	.2	.3	.1	.7	.0		5.8	
	11-21	.0	.0	.1	.5	*	.0	.0	.0	.0		.7	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0		.1	
	TOT %	1.1	1.6	1.2	4.5	.3	.5	.3	1.7	.0	.1	11.2	
1<2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.0	.0	.1	.0	.0	.0	*	.0		.3	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.0	.2	.0	.0	.0	*	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.2	.0	.0	.0	.1	.0	.0	.0	.0		.3	
	11-21	*	.0	.0	.1	.0	.0	.0	*	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.1	.1	.0	.0	*	.0	.1	.6	
5<10	0-3	.6	1.0	1.2	.6	.4	.0	.5	1.2	.0	.6	6.0	
	4-10	3.4	5.2	9.5	12.3	1.7	.9	.6	2.2	.0		35.8	
	11-21	.2	1.0	4.9	5.3	.5	.0	.0	.1	.0		12.1	
	22+	.0	.1	1.1	2.1	.5	.0	.0	.0	.0		3.9	
	TOT %	4.2	7.4	16.6	20.4	3.1	.9	1.1	3.5	.0	.6	57.8	
10+	0-3	.2	.4	.8	.5	.1	*	.4	.3	.0	.9	3.7	
	4-10	1.7	3.0	6.5	5.4	.7	.3	.9	1.3	.0		19.8	
	11-21	.2	.2	1.5	3.1	.1	.0	.3	.3	.0		5.8	
	22+	.0	.0	*	.5	*	.0	.0	.1	.0		.7	
	TOT %	2.1	3.6	8.9	9.5	1.0	.4	1.6	1.9	.0	.9	29.9	
	TOT OBS												1026
	TOT PCT	7.8	12.7	26.7	34.7	4.5	1.7	3.0	7.2	.0	1.7	100.0	

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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
00&03	.0	.0	2.9	.0	11.8	11.8	.0	.0	.0	.0	26.5	73.5	34
06&09	.0	.0	.0	.0	15.4	2.6	.0	.0	.0	.0	17.9	82.1	39
12&15	.0	.0	.0	3.1	12.5	6.3	3.1	.0	.0	.0	25.0	75.0	32
18&21	.0	.0	3.1	9.4	9.4	3.1	3.1	3.1	.0	.0	31.3	68.8	32
TOT	0	0	2	4	17	8	2	1	0	0	34	103	137
PCT	.0	.0	1.5	2.9	12.4	5.8	1.5	.7	.0	.0	24.8	75.2	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
00&03	.0	10.0	.0	.5	52.9	36.7	210
06&09	.0	11.3	.8	.3	59.2	28.3	353
12&15	.0	10.8	.0	1.1	62.7	25.4	185
18&21	.0	12.8	.6	.6	60.3	25.8	345
TOT	0	125	5	6	644	313	1093
PCT	.0	11.4	.5	.5	58.9	28.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.2	3.2	25.8	71.0	31
06&09	.0	.0	.0	18.9	81.1	37
12&15	.0	.0	6.5	19.4	74.2	31
18&21	.0	3.2	12.9	19.4	67.7	31
TOT	0	2	7	27	96	130
PCT	.0	1.5	5.4	20.8	73.8	100.0

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
90/94	.0	.0	.0	.0	.8	.0	.0	.0	2	.8
85/89	.0	.0	.0	.0	4.1	5.3	3.3	.0	31	12.7
80/84	.0	.0	.0	.4	4.1	27.8	35.5	11.0	193	78.8
75/79	.0	.0	.0	.0	.4	3.3	1.2	2.9	19	7.8
TOTAL	0	0	0	1	23	89	98	34	245	100.0
PCT	.0	.0	.0	.4	9.4	36.3	40.0	13.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.7	.0	.0	.0	.0	.0	.0	.0
1.2	3.1	2.0	4.9	.0	.0	.0	.6	.0	.8
4.7	9.6	25.7	24.7	4.1	.8	3.0	5.0	.0	1.2
.0	.4	1.0	5.1	.4	.0	.4	.4	.0	.0
5.9	13.2	29.5	34.7	4.5	.8	3.4	6.0	.0	2.0

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	89	88	87	84	79	77	76	83.5	240
06&09	90	89	87	83	80	78	71	83.0	386
12&15	85	84	84	81	78	77	74	81.2	204
18&21	86	85	84	81	78	76	75	81.1	380
TOT	90	88	86	82	78	77	71	82.2	1210

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	12.7	40.0	36.4	10.9	79	55
06&09	.0	1.2	14.6	32.9	41.5	9.8	78	82
12&15	.0	.0	6.0	36.0	44.0	14.0	82	50
18&21	.0	.0	2.7	33.3	40.0	24.0	83	75
TOT	0	1	24	92	106	39	81	262

DECEMBER

PERIOD: (PRIMARY) 1898-1969
(OVER-ALL) 1880-1969

AREA 0001 PRINC SS CHARLOTTE BAY
14.2S 144.6E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.1	.3	.0	4	.0	.5
6	.0	.0	.1	.6	.3	9	.1	.9
5	.0	.0	.5	1.9	.0	21	.1	2.3
4	.0	.0	3.3	3.7	.3	64	.6	6.7
3	.0	.0	7.1	3.2	.1	91	.5	9.9
2	.0	1.3	12.2	3.1	.0	145	1.7	14.9
1	.0	5.8	9.4	2.3	.0	153	1.4	16.1
0	.0	4.1	13.9	1.8	.0	174	3.5	16.3
-1	.0	3.8	5.7	.0	.0	83	.9	8.6
-2	.1	2.9	5.3	.0	.0	72	.6	7.7
-3	.0	2.1	1.1	.2	.0	30	.2	3.2
-4	.1	1.0	.7	.0	.0	16	.2	1.6
-5	.0	.7	.3	.0	.0	9	.1	.9
-6	.1	.1	.1	.0	.0	3	.0	.3
-7/-8	.0	.1	.0	.0	.0	1	.0	.1
TOTAL	3	191	524	150	7	875	87	788
PCT	.3	21.8	59.9	17.1	.8	100.0	9.9	90.1

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.0	.0	.0	.0	.0	.9
1-2	.0	3.0	1.2	.0	.0	.0	4.2
3-4	.0	1.8	2.1	.0	.0	.0	3.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.9	4.8	3.3	.0	.0	.0	9.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.4	.0	.0	.0	.0	2.7
1-2	.0	8.4	1.5	.0	.0	.0	9.9
3-4	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.3	11.1	1.5	.0	.0	.0	13.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	6.0	.0	.0	.0	.0	7.2
1-2	1.2	12.7	3.3	.0	.0	.0	17.2
3-4	.0	2.4	1.8	.0	.0	.0	4.2
5-6	.0	.0	2.1	.0	.0	.0	2.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	2.4	21.1	7.2	.0	.0	.0	30.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.4	2.4	.0	.0	.0	7.8
3-4	.0	.0	9.0	2.4	.0	.0	11.4
5-6	.0	.0	3.9	.0	.0	.0	3.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	5.4	15.4	2.4	.0	.0	23.2

PERIOD: (OVER-ALL) 1963-1969

DECEMBER

TABLE 18 (CONT)

AREA 0001 PRINCESS CHARLOTTE BAY
14.25 144.6E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
1-2	.9	2.7	.0	.0	.0	.0	3.6	.3	.3	.0	.0	.0	.0	.6
3-4	.0	.0	1.2	.0	.0	.0	1.2	.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
TOT PCT	.9	3.9	1.2	.0	.0	.0	6.0	.3	.3	.0	.0	.0	.0	.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.9	.0	.0	.0	.0	.9	1.2	1.5	.0	.0	.0	.0	2.7	
1-2	.0	1.2	.0	.0	.0	.0	1.2	.0	2.4	.0	.0	.0	.0	2.4	
3-4	.0	.0	3.6	.0	.0	.0	3.6	.0	.3	1.5	1.2	.0	.0	3.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	1.2	
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	
TOT PCT	.0	2.1	3.6	.0	.0	.0	5.7	1.2	4.2	2.7	1.2	.0	.0	9.3	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.1	11.9	.0	.0	.0	.0	19.0	
1-2	2.4	35.7	8.3	.0	.0	.0	46.4	
3-4	.0	4.8	19.0	3.6	.0	.0	27.4	
5-6	.0	.0	7.1	.0	.0	.0	7.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	9.5	52.4	34.5	3.6	.0	.0	100.0	84

PERIOD: (OVER-ALL) 1949-1969

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	12.0	25.0	23.1	4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	2
6-7	.0	1.9	16.7	6.5	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	4
8-9	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.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	
INDET	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	0
TOTAL	19	29	43	13	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	108	3
PCT	17.6	26.9	39.8	12.0	2.8	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1896-1971
(OVER-ALL) 1895-1971

AREA 0001 PRINCESS CHARLOTTE BAY
14.1S 144.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.2	3.0	.1	.0	.0	.0	.0	5.3	1.5	2.1	5.4	.0	1.4	.0	84.1
NE	2.3	3.9	.1	.0	.0	.0	*	6.3	.1	2.4	3.4	.0	.5	.0	87.9
E	2.8	3.7	.4	.0	.0	.0	.1	6.9	.8	.9	2.9	.0	.6	.0	86.2
SE	3.1	8.8	.8	.0	.0	.0	.1	12.6	1.1	.9	4.9	.0	1.0	.0	79.9
S	4.6	9.8	.7	.0	.0	.0	*	15.2	.3	1.9	4.2	.0	.8	.0	78.8
SW	5.8	2.0	1.4	.0	.0	.0	.0	9.2	1.1	1.7	3.3	.0	.6	.0	85.2
W	9.7	1.3	.4	.0	.0	.0	.0	11.4	.0	3.1	2.1	.0	.0	.0	85.9
NW	2.3	2.9	.5	.0	.0	.0	.0	5.6	.1	2.7	4.2	.0	.7	.0	87.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8	.0	.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	1.7	.0	95.6
TOT PCT	3.1	6.8	.7	.0	.0	.0	.1	10.6	.8	1.4	4.2	.0	1.0	.0	82.6
TOT OBS:	9815														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.7	4.8	.8	.0	.0	.0	.0	8.4	.9	.4	4.1	.0	1.3	.0	85.2
06&09	3.0	6.6	.7	.0	.0	.0	.1	10.4	.8	1.6	4.7	.0	1.4	.0	81.6
12&15	3.7	6.5	.6	.0	.0	.0	.1	10.8	1.2	2.9	3.4	.0	.3	.0	82.0
18&21	4.2	8.6	.6	.0	.0	.0	*	13.4	.6	1.4	4.0	.0	.5	.0	80.9
TOT PCT	3.4	6.8	.7	.0	.0	.0	.1	10.9	.8	1.5	4.1	.0	.9	.0	82.2
TOT OBS:	10297														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	2.9	.5	.0	*	.0		4.3	5.0	2.3	4.8	5.7	5.8	3.7	4.1	3.3	3.0
NE	1.5	4.1	.5	*	*	.0		6.2	6.1	3.2	5.9	9.7	7.5	4.4	5.7	4.6	3.9
E	2.3	13.6	6.9	.7	*	.0		23.6	9.5	22.8	22.3	25.4	25.7	22.7	24.6	23.1	20.5
SE	3.0	24.9	18.7	2.6	*	.0		49.2	10.9	51.6	49.1	46.8	48.6	55.4	50.4	49.5	50.1
S	.8	4.4	2.1	.4	*	.0		7.7	9.4	11.9	8.4	6.5	5.5	10.1	7.0	7.7	10.1
SW	.3	1.1	.1	*	.0	.0		1.5	5.9	2.5	1.2	.8	.4	.5	1.4	2.4	2.8
W	.4	1.2	.2	.0	*	.0		1.9	5.7	2.3	1.4	1.1	1.3	1.3	1.2	2.0	4.2
NW	.8	2.3	.5	*	*	.0		3.6	5.3	2.1	4.6	2.7	4.0	1.2	3.9	4.2	3.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0	1.4	2.3	1.3	1.3	.8	1.8	3.1	1.9
TOT OBS							13415		9.6	345	2295	2270	2033	256	1973	2094	2149
TOT PCT	12.1	54.4	29.7	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 SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.8	1.4	.1	.0	*		4.3	5.0	4.3	5.7	4.0	3.1
NE	4.2	1.8	.1	*	*		6.2	6.1	5.5	8.7	5.6	4.3
E	8.2	12.5	2.8	.1	.0		23.6	9.5	22.6	25.6	24.5	21.8
SE	11.2	27.9	9.4	.8	*		49.2	10.9	49.6	47.6	51.0	49.6
S	2.5	4.1	.9	.2	.0		7.7	9.4	8.7	6.0	7.5	8.9
SW	1.0	.5	.1	.0	.0		1.5	5.9	1.5	.6	1.3	2.6
W	1.2	.6	.1	*	.0		1.9	5.7	1.6	1.2	1.2	3.2
NW	1.9	1.6	.1	*	.0		3.6	5.3	4.0	3.3	3.4	3.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.9						1.9	.0	2.2	1.3	1.7	2.5
TOT OBS						13415		9.6	2640	4303	2229	4243
TOT PCT	35.0	50.3	13.6	1.1	*		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.2	11.6	53.0	29.8	3.5	*	.0	9.4	100.0	2640
06&09	1.3	9.5	52.8	32.1	4.2	.1	.0	9.9	100.0	4303
12&15	1.7	9.1	52.2	33.0	4.1	*	.0	10.0	100.0	2229
18&21	2.5	10.5	58.2	25.6	3.3	*	.0	9.1	100.0	4243
TOT								9.6		13415
PCT	1.9	10.2	54.4	29.7	3.7	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	.4	1.6	.4		3.2
NE	1.8	.7	2.0	.4		3.4
E	8.1	7.1	7.5	2.8		4.0
SE	15.7	13.5	14.2	5.6		4.0
S	2.6	2.5	3.7	1.0		4.4
SW	.3	.4	.6	.5		3.8
W	.6	.2	.8	.5		2.4
NW	.6	.3	.4	.4		1.8
VAR	.0	.0	.0	.0		.0
CALM	.7	.3	.4	.0		2.1
TOT OBS					1084	4.0
TOT PCT	31.6	25.4	31.3	11.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	.1	.2	.4	.1	.0	.0	.0	2.9	
NE	.0	.0	.1	.4	.5	.1	.0	.1	.0	.1	3.5	
E	.1	.0	.3	1.9	2.1	.7	.5	.2	.2	.1	19.5	
SE	.2	.2	.3	3.0	5.9	2.5	.6	.1	.1	*	36.1	
S	.0	.0	.2	.8	1.2	.6	.2	.0	.0	.0	6.8	
SW	.0	.0	.0	.1	.2	.1	.0	.0	.1	.0	1.2	
W	.0	.0	.1	.1	.3	.3	.0	.0	.0	.0	1.4	
NW	.0	.0	.1	.0	.2	.1	*	.1	.0	.0	1.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1.3	
TOT OBS												1084
TOT PCT	.3	.2	1.1	6.4	10.7	4.8	1.5	.5	.4	.2	74.0	100.0

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 >50YD	* OR >0
* OR >6500	.7	.7	.7	.7	.7	.7	.7	.7
* OR >5000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >3500	2.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6
* OR >2000	6.2	7.2	7.3	7.3	7.3	7.3	7.3	7.3
* OR >1000	14.3	17.4	17.9	18.0	18.0	18.0	18.0	18.0
* OR >600	18.7	23.2	24.1	24.4	24.5	24.5	24.5	24.5
* OR >300	19.6	24.3	25.3	25.6	25.7	25.7	25.7	25.7
* OR >150	19.6	24.4	25.5	25.8	25.8	25.8	25.8	25.8
* OR > 0	19.8	24.7	25.9	26.1	26.2	26.2	26.2	26.2

TOTAL NUMBER OF OBS: 1104 PCT FREQ NH <5/8: 73.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.6	18.4	18.7	15.9	10.5	8.0	6.8	5.4	6.6	.3	1204

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	TOT %	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
1/2<1	PCP	*	.0	*	.3	.1	*	*	*	.0	.0	.5	
	NO PCP	.2	.3	.7	2.3	.2	*	*	.2	.0	.0	4.0	
	TOT %	.2	.3	.8	2.6	.3	.1	*	.2	.0	.0	4.5	
1<2	PCP	*	*	.1	.1	*	.0	.0	.0	.0	.0	.2	
	NO PCP	.1	*	.1	.2	*	.0	.0	.1	.0	.0	.5	
	TOT %	.1	*	.2	.3	.1	.0	.0	.1	.0	.0	.7	
2<5	PCP	*	*	.1	.2	.0	*	*	.0	.0	.0	.4	
	NO PCP	*	*	.1	.2	*	*	.0	.0	.0	.0	.4	
	TOT %	*	*	.2	.4	*	.1	*	.0	.0	.0	.8	
5<10	PCP	.3	.3	1.2	5.3	1.1	.1	.1	.4	.0	*	8.7	
	NO PCP	2.1	3.7	14.3	30.8	3.4	.8	.7	1.5	.0	.3	57.8	
	TOT %	2.4	4.0	15.5	36.1	4.5	.9	.9	1.9	.0	.3	66.4	
10+	PCP	.1	*	.2	.4	.1	*	*	.1	.0	.0	.9	
	NO PCP	1.2	1.5	6.6	12.1	2.3	.7	.8	.9	.0	.4	26.6	
	TOT %	1.4	1.5	6.7	12.5	2.5	.7	.8	1.0	.0	.4	27.5	
	TOT OBS												9808
	TOT PCT	4.1	6.0	23.4	52.0	7.4	1.7	1.7	3.2	.0	.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	*	*	.0	.0	*	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	*	*	.0	.0	*	.0	.0	.1	
1/2<1	0-3	.1	.2	.1	.3	*	*	*	.1	.0	*	.8	
	4-10	.1	.1	.4	1.2	.2	*	*	.1	.0		2.1	
	11-21	*	*	.2	.7	.1	.0	.0	.0	.0		1.0	
	22+	.0	.0	*	.1	*	.0	.0	.0	.0		.1	
	TOT %	.2	.3	.7	2.3	.2	*	*	.2	.0	*	4.0	
1<2	0-3	*	*	*	*	*	.0	.0	.0	.0	.0	*	
	4-10	*	*	.1	.1	*	.0	.0	*	.0		.3	
	11-21	*	*	*	.2	*	.0	.0	*	.0		.4	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	TOT %	.1	*	.2	.3	.1	.0	.0	*	.0	.0	.7	
2<5	0-3	.0	.0	*	*	.0	*	*	.0	.0	*	.1	
	4-10	.1	*	.1	.2	.1	*	*	*	.0		.5	
	11-21	*	*	.1	.3	*	*	*	*	.0		.5	
	22+	.0	.0	*	*	*	*	.0	.0	.0		.1	
	TOT %	.1	.1	.3	.5	.1	.1	.1	.1	.0	*	1.2	
5<10	0-3	.4	1.0	1.4	2.2	.5	.2	.2	.4	.0	.4	6.6	
	4-10	1.3	2.1	8.0	16.1	2.2	.5	.5	1.1	.0		31.9	
	11-21	.2	.3	3.7	10.7	1.0	.1	.1	.2	.0		16.2	
	22+	.0	*	.5	1.9	.2	.0	.0	*	.0		2.7	
	TOT %	1.9	3.4	13.5	30.9	4.0	.7	.8	1.7	.0	.4	57.3	
10+	0-3	.3	.4	.8	.7	.3	.1	.1	.2	.0	1.1	3.9	
	4-10	1.3	1.7	5.3	7.6	1.8	.5	.7	1.0	.0		20.0	
	11-21	.2	.1	2.7	7.5	1.1	.1	.1	.3	.0		12.1	
	22+	.0	.0	.1	.5	.1	.0	.0	*	.0		.7	
	TOT %	1.8	2.2	8.9	16.4	3.2	.7	1.0	1.4	.0	1.1	36.7	
	TOT OBS												11635
	TOT PCT	4.0	6.1	23.5	50.5	7.6	1.5	1.8	3.4	.0	1.5	100.0	

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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
00&03	.0	.3	1.2	6.0	13.6	5.1	1.8	.5	.5	.3	29.3	70.7	345
06&09	.0	.3	.8	6.8	8.7	4.4	.3	.0	.3	.2	21.8	78.2	341
12&15	.5	.0	1.4	4.0	9.3	3.2	.7	.4	.4	.0	20.0	80.0	247
18&21	1.4	.0	1.2	8.1	7.6	5.4	2.6	.8	.4	.4	27.7	72.3	233
TOT													1166
PCT	.3	.2	1.1	6.2	10.1	4.5	1.3	.4	.4	.2	24.8	75.2	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
00&03	.0	4.0	.7	1.4	50.2	43.7	2296
06&09	.1	4.6	.7	1.5	60.0	33.2	3876
12&15	.0	3.2	.7	.9	58.4	36.8	2019
18&21	.1	3.9	.7	.9	60.6	33.8	3888
TOT							12079
PCT	.1	4.0	.7	1.2	58.0	36.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.5	9.0	22.1	68.9	331
06&09	.0	1.2	9.2	14.3	76.5	320
12&15	.5	2.5	6.8	14.1	79.2	236
18&21	1.5	2.8	11.4	18.3	70.3	217
TOT						1104
PCT	.4	1.8	9.0	17.4	73.6	100.0

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
95/99	.0	.0	.0	.0	.0	*	.0	.0		*
90/94	.0	.0	*	*	.2	*	.0	.0		.3
85/89	.0	.0	.1	.4	1.1	3.1	1.5	.4		6.5
80/84	.0	.0	*	.4	3.7	14.4	16.3	4.8		39.7
75/79	.0	.0	.1	.4	2.8	13.8	13.1	8.3		38.4
70/74	.0	.0	.0	.4	1.9	3.4	4.3	4.4		14.3
65/69	.0	.0	.0	.0	.2	*	.3	.2		.7
60/64	.0	.0	.0	.0	.0	.0	*	*		.1
TOTAL									2943	100.0
PCT	.0	.0	.3	1.5	9.9	34.8	35.5	18.0		

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	.0
	.1	*	.1	.1	.0	.0	.0	*	.0	.0
	.6	.5	1.5	2.6	.3	.0	.3	.4	.0	.3
	2.3	2.3	11.0	17.3	2.5	.7	1.1	2.1	.0	.4
	.8	1.9	8.7	22.7	2.9	.5	.2	.4	.0	.3
	.2	.4	1.9	8.9	2.1	.4	.2	.2	.0	.1
	.0	.0	.1	.4	.2	*	.0	.0	.0	.0
	.0	.0	.0	*	*	.0	.0	.0	.0	.0
	4.0	5.2	23.3	52.0	8.0	1.7	1.7	3.0	.0	1.2

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	96	86	84	80	76	74	66	79.7	2647
06&09	95	85	84	80	76	74	61	79.0	4378
12&15	87	82	81	78	75	73	63	77.4	2268
18&21	90	83	81	78	74	72	59	77.2	4416
TOT	96	85	83	79	75	73	59	78.3	13709

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	1.7	14.1	39.0	30.9	14.3	79	672
06&09	.0	2.8	12.3	39.3	31.0	14.7	79	982
12&15	.0	1.7	6.9	32.2	40.5	18.8	81	517
18&21	.0	.6	5.2	26.9	41.5	25.8	83	838
TOT	0	52	302	1063	1084	568	80	3069

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	*	6	.0	.1
9/10	.0	.0	*	.1	*	.0	*	17	*	.2
7/8	.0	.0	*	.2	.3	.2	*	68	*	.8
6	.0	*	.1	.3	.3	.3	.1	96	.1	.9
5	.0	.0	.1	.7	1.1	.6	.1	250	.1	2.6
4	.0	*	.5	2.4	1.7	1.0	.1	594	.2	5.5
3	.0	*	1.7	4.0	2.8	1.0	.1	1031	.5	9.0
2	.0	.3	3.7	5.8	4.9	1.4	.0	1571	.8	15.2
1	*	.4	5.1	5.8	4.3	.9	.0	1655	.8	15.7
0	*	.7	4.2	6.3	7.6	.6	.0	1602	1.0	18.4
-1	*	.6	2.1	3.9	3.4	.2	.0	744	.4	9.8
-2	*	.6	1.4	2.6	4.2	*	.0	569	.2	8.8
-3	*	.3	.6	1.8	1.1	*	.0	220	*	3.8
-4	*	.2	.3	1.3	.7	.0	.0	131	.1	2.5
-5	*	.1	.2	.8	.2	.0	.0	68	*	1.3
-6	*	*	.1	.3	.1	.0	.0	29	.0	.6
-7/-8	*	*	.1	.1	*	.0	.0	22	*	.3
-9/-10	*	.0	.0	.1	.0	.0	.0	4	.0	.1
-11/-13	.0	.0	*	.0	.0	.0	.0	1	.0	*
TOTAL								8676		
PCT	.3	3.2	20.4	36.6	32.8	6.3	.5	100.0	4.4	95.6

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.6
1-2	.2	.7	.2	.0	.0	.0	1.2
3-4	.0	.5	.3	.0	.0	.0	.7
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	1.7	.6	.0	.0	.0	2.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.8	.0	.0	.0	.0	1.4
1-2	.0	2.2	.4	.0	.0	.0	2.6
3-4	.0	.2	.2	.0	.0	.0	.4
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.5	3.3	.7	.0	.0	.0	4.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	2.3	.1	.0	.0	.0	3.3
1-2	.2	7.6	2.2	.0	.0	.0	10.1
3-4	.0	3.3	5.5	.1	.0	.0	8.9
5-6	.0	.2	2.5	.1	.0	.0	2.8
7	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.2	13.4	11.4	.2	.0	.0	26.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.8	.3	.0	.0	.0	3.6
1-2	.1	7.7	5.8	.0	.0	.0	13.6
3-4	.1	3.8	16.8	1.2	.0	.0	21.9
5-6	.0	.9	7.5	.6	.0	.0	9.0
7	.0	.0	1.7	.9	.0	.0	2.6
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.7	15.2	32.2	2.7	.0	.0	50.8

TABLE 18 (CONT) 14.1S 144.4E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.0	.2	.0	.0	.0	.0	.2
1-2	.1	1.8	1.4	.0	.0	.0	3.2	.2	.5	.0	.0	.0	.0	.7
3-4	.0	1.6	2.5	.1	.0	.0	4.2	.0	*	*	.0	.0	.0	.1
5-6	.0	.1	1.1	.2	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.2	.1	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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
TOT PCT	.1	4.1	5.2	.4	.0	.0	9.8	.2	.8	.2	.1	.0	.0	1.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.1	.4	.0	.0	.0	.0	.5	.3	.2	.0	.0	.0	.0	.5	
1-2	.0	.5	.0	.0	.0	.0	.5	*	.8	.0	.0	.0	.0	.8	
3-4	.0	.2	.5	.0	.0	.0	.7	.0	*	.2	.1	.0	.0	.4	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
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	
TOT PCT	.1	1.2	.5	.0	.0	.0	1.8	.3	1.0	.5	.1	.0	.0	1.9	99.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.4	8.1	.4	.0	.0	.0	13.0	
1-2	1.1	21.5	9.9	.0	.0	.0	32.4	
3-4	.1	9.5	25.6	1.5	.0	.0	36.7	
5-6	.0	1.1	11.5	.9	.0	.0	13.4	
7	.0	.0	3.0	1.1	.0	.0	4.1	
8-9	.0	.0	.3	.0	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
								834
TOT PCT	5.6	40.2	50.7	3.5	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1969 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	8.0	27.5	25.5	7.0	2.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	749	3
6-7	.0	.8	7.2	5.2	3.9	.4	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	198	5
8-9	.0	.0	.5	1.7	.7	.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	6
10-11	.0	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
12-13	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	5.5	.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	0
TOTAL																				1070	3
PCT	13.5	29.1	34.1	14.1	6.9	1.5	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1896-1971
(OVER-ALL) 1855-1971

AREA 0001 PRINCESS CHARLOTTE BAY
14.1S 144.4E

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	.1	7	.1
89/90	.9	.2	.0	.0	.0	.0	.0	.0	.1	.0	.1	.5	39	.3
87/88	3.1	2.2	.2	.0	.0	.0	.0	.0	.1	.0	.9	8.4	306	2.5
85/86	15.5	12.0	7.6	1.1	.0	.0	.0	.0	.1	.0	.9	27.2	1060	8.7
83/84	37.9	40.4	23.7	7.1	.7	.1	.1	.1	.3	.7	10.2	33.9	1786	14.6
81/82	34.7	33.2	48.8	33.3	5.7	2.9	.3	.3	.4	5.8	28.8	25.1	1923	15.7
79/80	6.2	7.9	15.3	33.6	22.2	4.9	.8	.4	6.2	28.4	39.1	4.8	1901	15.6
77/78	1.7	3.1	3.6	19.5	38.6	18.4	4.4	6.2	16.0	42.0	17.0	.1	2267	16.6
75/76	.0	.9	.7	4.1	25.3	40.5	19.7	28.3	47.0	18.1	3.5	.0	1932	15.8
73/74	.0	.0	.2	1.1	5.7	21.1	44.8	41.0	24.9	5.0	.3	.0	816	6.7
71/72	.0	.2	.0	.0	.7	10.3	24.9	19.5	4.2	.1	.2	.0	144	1.2
69/70	.0	.0	.0	.2	.8	1.5	4.4	3.4	.6	.0	.0	.0	21	.2
67/68	.0	.0	.0	.0	.1	.3	.4	.6	.1	.0	.0	.0	9	.1
65/66	.0	.0	.0	.0	.1	.0	.2	.3	.0	.0	.0	.0	0	.0
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
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	580	458	590	538	707	882	1398	1576	1392	1516	1438	1136	12211	100.0
MEAN	82.9	82.5	81.8	79.8	77.3	75.2	73.4	73.7	75.3	77.7	80.0	81.7	78.4	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1008	1008	1006	1007	1007	1008	1005	1008	1007	262
FEB	1009	1008	1006	1007	1008	1009	1006	1008	1007	266
MAR	1011	1009	1008	1008	1009	1010	1008	1009	1009	315
APR	1012	1011	1010	1011	1012	1011	1010	1011	1011	294
MAY	1014	1013	1011	1012	1013	1013	1012	1013	1012	332
JUN	1015	1014	1012	1013	1015	1014	1013	1013	1013	354
JUL	1016	1014	1013	1014	1016	1015	1014	1014	1014	361
AUG	1016	1014	1013	1014	1016	1015	1014	1015	1014	342
SEP	1015	1014	1012	1013	1015	1015	1013	1014	1014	313
OCT	1015	1013	1011	1012	1014	1013	1012	1013	1013	283
NOV	1012	1011	1009	1010	1011	1011	1010	1011	1011	334
DEC	1010	1009	1007	1008	1009	1009	1007	1009	1008	328
ANN	1013	1012	1010	1011	1012	1012	1010	1012	1011	3784
OBS	335	537	667	486	244	435	556	524		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	998	999	1002	1005	1007	1009	1012	1013	1014
FEB	999	1000	1002	1005	1007	1009	1012	1013	1015
MAR	1001	1002	1004	1007	1009	1011	1013	1014	1015
APR	1004	1005	1007	1009	1011	1012	1014	1016	1017
MAY	1006	1006	1009	1011	1012	1014	1017	1018	1019
JUN	1006	1007	1009	1012	1013	1015	1018	1020	1021
JUL	1006	1008	1010	1013	1014	1016	1018	1020	1022
AUG	1007	1008	1010	1013	1014	1016	1018	1020	1022
SEP	1004	1005	1010	1012	1014	1015	1018	1020	1021
OCT	1005	1006	1008	1011	1013	1014	1018	1018	1019
NOV	1002	1004	1006	1009	1011	1012	1015	1016	1018
DEC	1001	1002	1004	1007	1008	1010	1012	1014	1015

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	1.7	10.5	.0	.0	.0	.0	.0	12.2	.0	1.2	.0	.0	1.2	.0	85.5
NE	2.1	10.7	2.1	.0	.0	.0	.0	15.0	2.1	2.1	2.1	.0	1.1	.0	79.7
E	2.4	6.5	.9	.0	.0	.0	.0	9.7	2.1	1.2	3.5	.0	.9	.0	82.6
SE	3.9	10.6	1.6	.0	.0	.0	.7	16.8	4.4	.7	2.1	.0	.2	.0	75.8
S	7.8	13.1	.0	.0	.0	.0	.0	20.9	4.6	2.6	2.6	.0	.0	.0	71.9
SW	5.4	.0	.0	.0	.0	.0	.0	5.4	13.5	.0	.0	.0	10.8	.0	70.3
W	8.7	8.7	.0	.0	.0	.0	.0	17.4	8.7	.0	.0	.0	.0	.0	73.9
NW	5.7	4.6	.0	.0	.0	.0	.0	10.3	.0	2.3	.0	.0	.0	.0	87.4
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	10.0	.0	90.0
TOT PCT	3.7	9.1	1.0	.0	.0	.0	.2	14.0	3.2	1.2	2.0	.0	1.0	.0	79.1
TOT OBS:	407														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00603	5.8	8.1	3.5	.0	.0	.0	.0	17.4	3.5	.0	2.3	.0	2.3	.0	74.4
06609	1.5	8.2	.0	.0	.0	.0	.0	9.7	1.5	.0	3.0	.0	.0	.0	85.8
12615	4.2	7.4	1.1	.0	.0	.0	.0	12.6	3.2	4.2	2.1	.0	1.1	.0	77.9
18621	3.0	10.6	.8	.0	.0	.0	.8	15.2	3.8	.8	.0	.0	1.5	.0	79.5
TOT PCT	3.4	8.7	1.1	.0	.0	.0	.2	13.4	2.9	1.1	1.8	.0	1.1	.0	80.1
TOT OBS:	447														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.5	10.2	1.3	.0	.0	.0		14.0	6.7	.0	18.4	14.3	11.4	18.2	17.1	11.9	12.5
NE	1.8	8.0	1.3	.1	.0	.0		11.2	6.8	4.5	10.4	11.3	14.3	23.5	13.4	9.3	5.5
E	1.7	12.5	4.6	.5	.0	.0		19.3	8.8	17.0	21.9	23.0	20.2	10.6	19.0	15.7	19.0
SE	1.9	16.1	11.5	1.3	.0	.0		30.7	10.6	61.4	28.1	36.9	34.2	31.8	25.5	27.9	23.5
S	1.5	4.4	1.6	.3	.0	.0		7.8	7.9	3.4	5.2	3.1	5.5	6.1	11.6	12.8	11.0
SW	.6	1.2	.1	.1	.0	.0		2.0	7.2	.0	.0	.0	2.2	9.1	.9	3.8	3.5
W	.6	1.5	.5	.0	.0	.0		2.6	6.8	.0	1.9	1.6	1.3	.0	.0	5.3	7.0
NW	1.1	5.9	1.1	.0	.0	.0		8.1	7.1	4.5	8.5	7.4	8.3	.8	6.0	8.8	13.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.3							4.3	.0	9.1	5.7	2.5	2.6	.0	6.5	4.4	5.0
TOT OBS	115	429	158	16	0	0	718		8.2	22	106	122	114	33	108	113	100
TOT PCT	16.0	59.7	22.0	2.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	7.9	5.8	.3	.0	.0		14.0	6.7	15.2	12.9	17.4	12.2
NE	6.4	4.4	.3	.0	.0		11.2	6.8	9.4	12.7	15.8	7.5
E	7.7	10.0	1.5	.1	.0		19.3	8.8	21.1	21.6	17.0	17.3
SE	8.1	17.3	5.1	.2	.0		30.7	10.6	33.8	35.6	27.0	25.8
S	4.4	2.6	.8	.0	.0		7.8	7.9	4.9	4.2	10.3	12.0
SW	1.0	.8	.1	.0	.0		2.0	7.2	.0	1.1	2.8	3.6
W	1.5	1.1	.0	.0	.0		2.6	6.8	1.6	1.5	.0	6.1
NW	4.4	3.5	.3	.0	.0		8.1	7.1	7.8	7.8	4.8	10.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.3						4.3	.0	6.3	2.5	5.0	4.7
TOT OBS	328	327	61	2	0	718		8.2	128	236	141	213
TOT PCT	45.7	45.5	8.5	.3	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	6.3	16.4	53.9	22.7	.8	.0	.0	7.6	100.0	128
06&09	2.5	9.7	63.6	22.5	1.7	.0	.0	8.6	100.0	236
12&15	5.0	9.2	59.6	22.0	4.3	.0	.0	8.5	100.0	141
18&21	4.7	12.7	59.2	21.1	2.3	.0	.0	7.8	100.0	213
TOT	31	84	429	158	16	0	0	8.2		718
PCT	4.3	11.7	59.7	22.0	2.2	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.6	.9	2.6	.7		4.0
NE	8.9	1.9	2.1	1.2		2.6
E	4.2	4.4	3.5	8.2		5.2
SE	6.8	9.1	20.8	8.6		5.0
S	.9	1.4	.9	1.9		5.5
SW	2.8	.0	.0	.0		1.3
W	.0	.9	.0	.0		3.0
NW	.9	.0	.9	.0		3.0
VAR	.0	.0	.0	.0		.0
CALM	1.9	1.9	.0	.0		2.7
TOT OBS	30	22	33	22	107	4.4
TOT PCT	28.0	20.6	30.8	20.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.9	.0	.7	.0	.0	.0	4.2	
NE	.0	.0	.0	1.9	.0	.0	1.2	.0	.0	.0	11.0	
E	.0	.0	.0	2.3	1.9	.9	.0	.0	.0	.7	14.5	
SE	.0	.0	.0	5.1	5.6	.9	.9	.0	.0	.2	32.5	
S	.0	.0	.0	.9	1.9	.0	.0	.0	.0	.0	2.3	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
NW	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	
TOT OBS	0	0	0	11	11	2	3	1	0	1	78	107
TOT PCT	.0	.0	.0	10.3	10.3	1.9	2.8	.9	.0	.9	72.9	100.0

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 >50YD	= OR >0
= OR >6500	.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8
= OR >5000	1.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7
= OR >3500	4.4	5.3	5.3	5.3	5.3	5.3	5.3	5.3
= OR >2000	6.2	7.1	7.1	7.1	7.1	7.1	7.1	7.1
= OR >1000	11.5	17.7	17.7	17.7	17.7	17.7	17.7	17.7
= OR >400	13.3	24.8	25.7	27.4	27.4	27.4	27.4	27.4
= OR >300	13.3	24.8	25.7	27.4	27.4	27.4	27.4	27.4
= OR >150	13.3	24.8	25.7	27.4	27.4	27.4	27.4	27.4
= OR > 0	13.3	24.8	25.7	27.4	27.4	27.4	27.4	27.4
TOTAL	15	28	29	31	31	31	31	31

TOTAL NUMBER OF OBS: 113 PCT FREQ NH <5/8: 72.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
8.3	19.7	18.2	12.9	11.4	3.0	7.6	4.5	14.4	.0	132

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.2	.0	.5	.4	.1	.0	.0	.0	.0	1.2	
	NO PCP	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.2	.0	1.0	.4	.1	.0	.0	.0	.0	1.7	
1<2	PCP	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	.5	
	TOT %	.2	.0	.0	.2	.2	.0	.0	.0	.0	.2	1.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.1	.4	.6	.6	.1	.0	.0	.0	.0	1.7	
	TOT %	.0	.1	.4	.6	.6	.1	.0	.0	.0	.0	1.7	
5<10	PCP	.9	1.2	1.8	4.4	1.6	.0	.5	.5	.0	.0	10.8	
	NO PCP	5.3	3.8	10.2	14.8	5.2	1.1	1.0	2.6	.0	1.0	45.0	
	TOT %	6.1	5.0	12.0	19.2	6.8	1.1	1.5	3.1	.0	1.0	55.8	
10+	PCP	.2	.2	.2	.7	.0	.0	.0	.1	.0	.0	1.5	
	NO PCP	4.0	5.8	8.2	13.1	1.4	1.0	1.4	2.2	.0	1.2	38.3	
	TOT %	4.2	6.1	8.5	13.9	1.4	1.0	1.4	2.3	.0	1.2	39.8	
	TOT OBS												407
	TOT PCT	10.6	11.5	20.8	34.8	9.4	2.3	2.8	5.3	.0	2.5	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.4	
	4-10	.0	.0	.0	.4	.2	.0	.0	.0	.0		.5	
	11-21	.0	.2	.1	.1	.0	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.2	.1	.8	.3	.1	.0	.0	.0	.0	1.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.2	.0	.0	.4	.0	.0	.0	.0	.0		.5	
	11-21	.0	.1	.1	.4	.2	.0	.0	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.1	.1	.7	.2	.0	.0	.0	.0	.2	1.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.4	.4	.5	.4	.4	*	.0	.3	.0		2.5	
	11-21	.3	.1	.4	.7	.1	.0	.0	.1	.0		1.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.7	.4	.9	1.1	.5	*	.0	.4	.0	.0	4.0	
5<10	0-3	1.3	.4	1.1	1.3	1.4	.6	.4	.4	.0	1.2	8.2	
	4-10	3.3	2.7	6.7	7.7	2.9	.6	.8	1.8	.0		26.6	
	11-21	.5	.7	1.9	5.5	.8	.1	.1	.4	.0		10.0	
	22+	.0	.0	.0	.9	.4	.0	.0	.0	.0		1.2	
	TOT %	5.2	3.9	9.8	15.3	5.5	1.3	1.3	2.6	.0	1.2	46.1	
10+	0-3	1.3	1.3	.5	.4	.4	.0	.2	.6	.0	2.6	7.2	
	4-10	5.4	5.3	6.2	6.7	1.4	.8	.8	2.8	.0		29.2	
	11-21	.3	.2	2.1	6.5	.7	.0	.4	.3	.0		10.3	
	22+	.0	.0	.0	.2	.0	.2	.0	.0	.0		.4	
	TOT %	6.9	6.7	8.8	13.7	2.4	1.0	1.3	3.6	.0	2.6	47.1	
	TOT OBS												571
	TOT PCT	13.0	11.3	19.7	31.7	8.8	2.4	2.6	6.6	.0	4.0	100.0	

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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
00&03	.0	.0	.0	12.0	16.0	4.0	4.0	4.0	.0	4.0	44.0	56.0	25
06&09	.0	.0	.0	11.4	5.7	2.9	.0	.0	.0	.0	20.0	80.0	35
12&15	.0	.0	.0	5.4	8.1	.0	2.7	.0	.0	.0	16.2	83.8	37
18&21	.0	.0	.0	7.4	11.1	.0	3.7	.0	.0	3.7	25.9	74.1	27
TOT	0	0	0	11	12	2	3	1	0	2	31	93	124
PCT	.0	.0	.0	8.9	9.7	1.6	2.4	.8	.0	1.6	25.0	75.0	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
00&03	.0	.9	2.8	1.9	39.6	54.7	136
06&09	.0	1.0	.0	5.1	49.0	44.9	196
12&15	.0	1.5	.8	3.8	45.4	48.5	130
18&21	.0	1.7	2.2	3.4	55.3	37.4	179
TOT	0	8	8	23	296	276	611
PCT	.0	1.3	1.3	3.8	48.4	45.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	13.0	34.8	52.2	23
06&09	.0	.0	12.5	9.4	78.1	32
12&15	.0	.0	5.9	11.8	82.4	34
18&21	.0	.0	8.3	20.8	70.8	24
TOT	0	0	11	20	82	113
PCT	.0	.0	9.7	17.7	72.6	100.0

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
90/94	.0	.0	.0	.0	.0	.4	.4	.0	2	.8
85/89	.0	.0	.4	.8	2.0	6.0	5.6	.4	38	15.2
80/84	.0	.0	.0	.0	8.0	32.4	27.6	3.2	178	71.2
75/79	.0	.0	.0	.0	1.2	1.2	5.6	4.8	32	12.8
TOTAL	0	0	1	2	28	100	98	21	250	100.0
PCT	.0	.0	.4	.8	11.2	40.0	39.2	8.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.7	.0	.0	.0	.0	.0	.0	.0
3.7	1.9	4.2	3.2	1.0	.0	.4	.4	.0	.4
6.3	9.0	16.3	24.7	3.1	2.2	3.0	3.4	.0	3.2
.7	.0	2.1	5.9	1.2	.6	.6	1.7	.0	.0
10.7	11.0	23.3	33.8	5.3	2.8	4.0	5.5	.0	3.6

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	91	89	87	83	77	75	74	82.7	131
06&09	91	90	87	82	78	75	71	82.5	242
12&15	87	86	84	82	78	75	74	81.2	153
18&21	87	85	84	81	77	76	74	80.7	223
TOT	91	89	86	82	77	75	71	81.8	749

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	5.5	7.3	41.8	36.4	9.1	77	55
06&09	.0	2.5	16.3	40.0	36.3	5.0	77	80
12&15	.0	.0	7.7	40.0	41.5	10.8	80	65
18&21	.0	.0	8.9	35.4	45.6	10.1	80	79
TOT	0	5	29	109	112	24	79	279

PERIOD: (PRIMARY) 1918-1971
(OVER-ALL) 1883-1971

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.3	1	.0	.3
7/8	.0	.0	.0	.0	.3	1	.0	.3
6	.0	.0	.0	.3	.0	1	.0	.3
5	.0	.0	.5	.3	1.3	8	.0	2.1
4	.0	.3	.8	1.0	.0	8	.0	2.1
3	.0	.0	.8	2.9	.3	15	.0	3.9
2	.0	.5	4.5	1.8	.0	26	.0	6.8
1	.0	1.0	8.9	2.6	.0	48	.0	12.6
0	.0	2.1	18.4	1.8	.0	85	.5	21.8
-1	.0	4.7	13.4	.3	.0	70	.5	17.8
-2	.0	5.8	11.5	.0	.0	66	.8	16.5
-3	.0	1.6	2.6	.0	.0	16	.0	4.2
-4	.3	3.7	.8	.0	.0	18	.3	4.5
-5	.0	1.8	.3	.0	.0	8	.0	2.1
-6	.0	1.0	.0	.0	.0	4	.0	1.0
-7/-8	.5	.5	.3	.0	.0	5	.0	1.3
-9/-10	.3	.0	.0	.0	.0	1	.0	.3
TOTAL	4	88	239	42	8	381	8	373
PCT	1.0	23.1	62.7	11.0	2.1	100.0	2.1	97.9

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.1	.0	.0	.0	.0	4.1
1-2	.8	.8	.0	.0	.0	.0	1.6
3-4	.0	.0	1.1	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.8	4.9	1.1	.0	.0	.0	6.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.5	.0	.0	.0	.0	3.5
1-2	.3	4.6	1.1	.0	.0	.0	6.0
3-4	.0	2.2	.0	.0	.0	.0	2.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.3	10.3	1.1	.0	.0	.0	11.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.5	.0	.0	.0	.0	3.5
1-2	.0	4.1	2.2	.0	.0	.0	6.3
3-4	.0	.0	2.7	.0	.0	.0	2.7
5-6	.0	.0	4.9	.0	.0	.0	4.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	7.6	9.8	.0	.0	.0	17.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.2	1.1	.0	.0	.0	3.3
1-2	.0	11.1	6.8	.0	.0	.0	17.9
3-4	.0	4.3	12.5	1.1	.0	.0	17.9
5-6	.0	.0	9.2	.0	.0	.0	9.2
7	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	17.7	30.7	1.1	.0	.0	49.5

PERIOD: (OVER-ALL) 1963-1971

JANUARY

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	.8	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.9	.0	.0	.0	1.9	.0	1.1	.0	.0	.0	.0	1.1
3-4	.0	.0	2.2	.0	.0	.0	2.2	.0	1.1	.0	.0	.0	.0	1.1
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	1.1	.0	.0	1.1
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
TOT PCT	1.1	.8	4.1	.0	.0	.0	6.0	.0	2.2	.0	1.1	.0	.0	3.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	1.1	
3-4	.0	.0	.0	.0	.0	.0	.0	.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	
TOT PCT	.0	1.1	.0	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	1.1	96.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.3	14.6	1.0	.0	.0	.0	22.9	
1-2	1.0	22.9	11.5	.0	.0	.0	35.4	
3-4	.0	7.3	17.7	1.0	.0	.0	26.0	
5-6	.0	.0	13.5	.0	.0	.0	13.5	
7	.0	.0	1.0	.0	.0	.0	1.0	
8-9	.0	.0	.0	1.0	.0	.0	1.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
								96
TOT PCT	8.3	44.8	44.8	2.1	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1971

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	10.5	27.2	18.4	7.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	2
6-7	.0	.0	7.9	9.6	1.8	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	5
8-9	.0	.0	1.8	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.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	
INDET	8.8	.9	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	1
TOTAL	22	32	36	19	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	114	3
PCT	19.3	28.1	31.6	16.7	2.6	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1927-1969
(OVER-ALL) 1883-1969

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17.25 146.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.3	.0	.0	.0	.0	.0	.0	1.3	2.6	9.6	6.4	.0	2.6	.0		77.6
NE	2.0	12.2	.0	.0	.0	.0	.0	14.3	4.1	13.3	.0	.0	.0	.0		68.4
E	8.4	12.6	.0	.0	.0	.0	.0	20.9	.0	5.0	1.7	.0	3.3	.0		69.0
SE	10.1	16.9	.0	.0	.0	.0	.0	27.0	.9	.0	1.4	.0	.9	.0		69.7
S	12.9	11.0	.0	.0	.0	.0	.0	23.9	2.5	.0	1.2	.0	.0	.0		72.4
SW	6.7	6.7	.0	.0	.0	.0	.0	13.3	.0	.0	.0	.0	.0	.0		86.7
W	6.7	13.3	.0	.0	.0	.0	.0	20.0	.0	13.3	.0	.0	.0	.0		66.7
NW	1.9	.0	.0	.0	.0	.0	.0	1.9	.0	.0	1.9	.0	.0	.0		96.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	11.8	5.9	.0	.0	.0	.0	.0	17.6	.0	.0	.0	.0	.0	.0		82.4
TOT PCT	7.7	10.7	.0	.0	.0	.0	.0	18.4	1.2	3.3	1.8	.0	1.2	.0		74.2
TOT OBS:	337															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.7	7.4	.0	.0	.0	.0	.0	11.1	.0	.0	2.5	.0	1.2	.0		85.2
06&09	7.8	11.8	.0	.0	.0	.0	.0	19.6	1.0	.0	1.0	.0	1.0	.0		77.5
12&15	7.8	12.5	.0	.0	.0	.0	.0	20.3	4.7	9.4	1.6	.0	1.6	.0		62.5
18&21	10.3	12.4	.0	.0	.0	.0	.0	22.7	.0	5.2	2.1	.0	1.0	.0		69.1
TOT PCT	7.6	11.0	.0	.0	.0	.0	.0	18.6	1.2	3.2	1.7	.0	1.2	.0		74.1
TOT OBS:	344															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.7	7.1	2.3	.0	.0	.0		12.1	6.7	8.0	10.2	18.5	11.2	20.0	11.3	12.0	6.9
NE	1.0	6.7	.9	.0	.0	.0		8.5	7.1	12.0	7.5	14.7	9.6	15.8	4.9	4.9	4.1
E	2.5	13.9	4.2	.3	.2	.0		21.0	8.4	4.0	18.5	26.6	23.0	22.5	21.1	26.8	14.7
SE	2.0	14.6	10.1	1.5	.0	.0		28.2	10.6	27.0	28.8	28.0	33.7	10.8	36.6	26.1	22.8
S	1.5	6.4	2.3	.0	.0	.0		10.2	8.0	27.0	11.8	3.5	4.5	3.3	7.7	10.9	20.9
SW	1.4	2.4	.2	.0	.0	.0		3.9	4.9	18.0	4.3	1.6	4.5	.0	.7	2.1	6.9
W	.3	1.6	.6	.0	.0	.0		2.5	8.1	.0	2.7	.5	.6	3.3	1.4	3.9	6.6
NW	1.7	5.8	.6	.0	.0	.0		8.1	5.9	.0	7.5	4.3	8.4	7.5	10.6	10.6	10.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.6							5.6	.0	4.0	8.6	2.2	4.5	16.7	5.6	2.8	6.3
TOT OBS	102	322	116	10	1	0	551		7.8	25	93	92	89	30	71	71	80
TOT PCT	18.5	58.4	21.1	1.8	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	7.3	4.6	.2	.0	.0		12.1	6.7	9.7	14.9	13.9	9.3
NE	4.5	3.8	.3	.0	.0		8.5	7.1	8.5	12.2	8.2	4.5
E	9.7	9.5	1.5	.3	.0		21.0	8.4	15.5	24.9	21.5	20.4
SE	7.6	15.9	4.6	.1	.0		28.2	10.6	28.4	30.8	29.0	24.3
S	4.3	5.3	.6	.0	.0		10.2	8.0	15.0	4.0	6.4	16.2
SW	2.9	1.0	.0	.0	.0		3.9	4.9	7.2	3.0	.5	4.6
W	1.2	1.0	.2	.0	.0		2.5	8.1	2.1	.6	2.0	5.3
NW	5.7	2.3	.1	.0	.0		8.1	5.9	5.9	6.4	9.7	10.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.6						5.6	.0	7.6	3.3	8.9	4.6
TOT OBS	269	239	41	2	0	551		7.8	118	181	101	151
TOT PCT	48.8	43.4	7.4	.4	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	7.6	16.9	51.7	22.0	.8	.8	.0	7.7	100.0	118
06&09	3.3	9.9	66.9	16.6	3.3	.0	.0	7.9	100.0	181
12&15	8.9	12.9	55.4	21.8	1.0	.0	.0	7.6	100.0	101
18&21	4.6	13.2	55.6	25.2	1.3	.0	.0	8.0	100.0	151
TOT	31	71	322	116	10	1	0	7.8		551
PCT	5.6	12.9	58.4	21.1	1.8	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.5	5.8	5.3	.0		3.8
NE	1.5	2.8	10.5	.0		5.2
E	3.5	8.0	6.8	2.0		4.2
SE	5.8	5.0	10.0	2.0		4.4
S	1.5	4.0	3.3	2.0		4.9
SW	1.3	1.5	2.0	.0		4.2
W	.0	.0	1.0	.0		7.0
NW	3.0	.0	2.3	.0		2.5
VAR	.0	.0	.0	.0		.0
CALM	1.0	1.0	2.0	1.0		4.6
TOT OBS	22	28	43	7	100	4.4
TOT PCT	22.0	28.0	43.0	7.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	13.5	
NE	.0	.0	.0	.0	2.0	2.0	.0	.0	.0	.0	10.8	
E	.0	.0	.0	1.0	1.0	.0	.0	1.0	.0	.0	17.3	
SE	.0	.0	2.0	.0	3.0	1.0	1.0	.0	.0	.0	15.8	
S	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	8.8	
SW	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	3.8	
W	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	4.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	3.0	
TOT OBS	0	0	2	4	9	6	1	1	0	0	77	100
TOT PCT	.0	.0	2.0	4.0	9.0	6.0	1.0	1.0	.0	.0	77.0	100.0

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 >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >3500	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >2000	6.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
= OR >1000	15.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
= OR >600	16.3	19.4	20.4	20.4	20.4	20.4	20.4	20.4
= OR >300	17.3	21.4	22.4	22.4	22.4	22.4	22.4	22.4
= OR >150	17.3	21.4	22.4	22.4	22.4	22.4	22.4	22.4
= OR > 0	17.3	21.4	22.4	22.4	22.4	22.4	22.4	22.4
TOTAL	17	21	22	22	22	22	22	22

TOTAL NUMBER OF OBS: 98 PCT FREQ NH <5/8: 77.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.3	16.4	22.7	18.2	11.8	7.3	6.4	4.5	5.5	.0	110

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.6	
	NO PCP	.7	.0	.0	.0	.0	.0	.0	.1	.0	.0	.9	
	TOT %	.7	.0	.0	.3	.3	.0	.0	.1	.0	.0	1.5	
1<2	PCP	.0	.0	.6	1.0	.1	.0	.1	.1	.0	.0	2.1	
	NO PCP	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.9	1.3	.1	.0	.1	.1	.0	.0	2.7	
2<5	PCP	.0	.3	.3	.6	.0	.0	.0	.0	.0	.3	1.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.3	.3	.6	.0	.0	.0	.0	.0	.3	1.5	
5<10	PCP	.1	.4	2.2	6.0	1.6	.6	.0	.0	.0	.3	11.3	
	NO PCP	3.1	1.5	4.3	9.0	1.6	.0	.4	3.3	.0	.6	23.8	
	TOT %	3.3	1.9	6.5	15.0	3.2	.6	.4	3.3	.0	.9	35.1	
10+	PCP	.0	.3	.6	.7	.8	.0	.6	.0	.0	.3	3.3	
	NO PCP	7.6	4.5	9.4	13.8	7.7	3.9	1.0	4.5	.0	3.6	56.0	
	TOT %	7.6	4.8	10.0	14.5	8.5	3.9	1.6	4.5	.0	3.9	59.2	
	TOT OBS												336
	TOT PCT	11.6	7.0	17.8	31.7	12.1	4.5	2.2	8.0	.0	5.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.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	
	4-10	.2	.0	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.3	.0	.0	.2	.2	.0	.0	.1	.0		.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.6	.0	.0	.2	.2	.0	.0	.1	.0	.0	1.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.2	.0	.0	.1	.1	.0		.7	
	11-21	.0	.0	.5	.8	.1	.0	.0	.0	.0		1.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.7	1.0	.1	.0	.1	.1	.0	.0	2.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.2	.2	.0	.1	.1	.0	.0		.7	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.2	.2	.5	.0	.1	.1	.0	.0	.2	1.4	
5<10	0-3	.5	.7	.8	.3	.0	.0	.0	.5	.0	.7	3.5	
	4-10	1.3	.6	3.7	5.8	1.3	.5	.3	2.0	.0		15.5	
	11-21	1.2	.3	.9	5.0	1.5	.0	.0	.1	.0		9.0	
	22+	.0	.0	.5	1.6	.0	.0	.0	.0	.0		2.1	
	TOT %	2.9	1.6	5.9	12.8	2.8	.5	.3	2.5	.0	.7	30.0	
10+	0-3	1.8	.3	1.8	1.7	1.3	1.7	.3	1.1	.0	3.9	14.1	
	4-10	5.5	4.6	9.2	8.6	5.5	2.5	.5	3.0	.0		39.5	
	11-21	1.4	.6	2.2	5.4	.8	.0	.6	.5	.0		11.5	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0		.2	
	TOT %	8.8	5.4	13.3	15.9	7.6	4.3	1.5	4.6	.0	3.9	65.4	
	TOT OBS												433
	TOT PCT	12.2	7.3	20.2	30.4	10.8	4.8	2.1	7.4	.0	4.8	100.0	

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PERIOD: (PRIMARY) 1922-1969
(OVER-ALL) 1883-1969

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
00&03	.0	.0	4.0	.0	16.0	4.0	4.0	.0	.0	.0	28.0	72.0	25
06&09	.0	.0	.0	.0	5.9	2.9	.0	.0	.0	.0	8.8	91.2	34
12&15	.0	.0	.0	10.7	7.1	14.3	.0	.0	.0	.0	32.1	67.9	28
18&21	.0	.0	5.0	5.0	5.0	.0	.0	5.0	.0	.0	20.0	80.0	20
TOT	0	0	2	4	9	6	1	1	0	0	23	84	107
PCT	.0	.0	1.9	3.7	8.4	5.6	.9	.9	.0	.0	21.5	78.5	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
00&03	.0	3.2	2.1	.0	20.2	74.5	94
06&09	.0	.7	2.1	2.8	31.7	62.8	145
12&15	.0	1.2	2.4	1.2	31.3	63.9	83
18&21	.0	.0	1.7	.8	38.1	59.3	118
TOT	0	5	9	6	136	284	440
PCT	.0	1.1	2.0	1.4	30.9	64.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	4.2	4.2	25.0	70.8	24
06&09	.0	.0	3.1	9.4	87.5	32
12&15	.0	.0	12.0	20.0	68.0	25
18&21	.0	5.9	11.8	11.8	76.5	17
TOT	0	2	7	16	75	98
PCT	.0	2.0	7.1	16.3	76.5	100.0

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
90/94	.0	.0	.0	.0	.7	2.2	.4	.4	10	3.7
85/89	.0	.0	.0	.7	1.5	7.0	4.8	1.5	42	15.6
80/84	.0	.0	.0	.0	2.6	24.4	21.5	15.2	172	63.7
75/79	.0	.0	.0	.0	.4	2.2	2.2	12.2	46	17.0
TOTAL	0	0	0	2	14	97	78	79	270	100.0
PCT	.0	.0	.0	.7	5.2	35.9	28.9	29.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.4	.0	1.2	.6	1.1	.4	.0	.0	.0	.0
	3.2	.6	1.3	3.3	2.3	.7	.5	2.1	.0	1.5
	6.1	6.8	13.9	20.3	4.3	3.0	1.4	5.1	.0	3.0
	1.1	1.1	3.0	5.6	3.3	1.1	.4	.0	.0	1.5
	10.8	8.4	19.4	29.8	11.0	5.2	2.2	7.2	.0	5.9

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	92	91	90	83	79	76	76	83.3	113
06&09	92	91	87	83	77	75	74	82.5	176
12&15	87	86	84	81	77	75	75	81.2	100
18&21	90	88	84	81	76	75	73	80.4	149
TOT	92	90	87	82	77	75	73	81.8	538

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	1.6	8.1	43.5	29.0	17.7	80	62
06&09	.0	1.2	6.0	29.8	35.7	27.4	83	84
12&15	.0	.0	4.2	43.8	33.3	18.8	82	48
18&21	.0	.0	3.6	30.1	20.5	45.8	86	83
TOT	0	2	15	98	81	81	83	277

FEBRUARY

PERIOD: (PRIMARY) 1922-1969
(OVER-ALL) 1883-1969

AREA 0002 CAIRNS
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.4	1	.0	.4
7/8	.0	.0	.4	.4	1.7	6	.0	2.5
6	.0	.0	.0	.0	.4	1	.0	.4
5	.0	1.3	.8	.4	1.3	9	.0	3.8
4	.0	.0	.8	2.5	.4	9	.4	3.3
3	.0	.0	.0	1.7	.0	4	.0	1.7
2	.0	.0	5.0	3.8	.0	21	.0	8.8
1	.0	1.7	8.8	2.5	.0	31	1.3	11.7
0	.0	2.5	15.5	2.1	.0	48	.4	19.7
-1	.4	3.8	11.7	.4	.0	39	.0	16.3
-2	.4	5.4	6.3	.4	.0	30	.0	12.6
-3	.4	4.2	2.5	.0	.0	17	.0	7.1
-4	.0	1.7	2.1	.4	.0	10	.0	4.2
-5	.0	1.7	.0	.0	.0	4	.0	1.7
-6	.0	.8	.4	.0	.0	3	.0	1.3
-7/-8	.4	.8	.4	.0	.0	4	.0	1.7
-9/-10	.4	.4	.0	.0	.0	2	.0	.8
TOTAL	5	58	131	35	10	239	5	234
PCT	2.1	24.3	54.8	14.6	4.2	100.0	2.1	97.9

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	1.6	.0	.0	.0	.0	3.2
1-2	.0	9.3	1.6	.0	.0	.0	10.9
3-4	.0	.0	1.6	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.6	10.9	3.2	.0	.0	.0	15.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	10.1	1.6	.0	.0	.0	11.7
3-4	.0	.0	1.6	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	11.7	3.2	.0	.0	.0	14.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	2.8	.0	.0	.0	.0	4.0
1-2	.0	8.9	3.2	.0	.0	.0	12.1
3-4	.0	.0	3.2	.0	.0	.0	3.2
5-6	.0	.0	3.2	.0	.0	.0	3.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	1.6	.0	.0	.0	1.6
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
TOT PCT	1.2	11.7	11.3	.0	.0	.0	24.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.0	.0	.0	.0	.0	2.4
1-2	.0	10.5	2.0	.0	.0	.0	12.5
3-4	.0	.4	4.8	.0	.0	.0	5.2
5-6	.0	.0	3.2	.0	.0	.0	3.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	12.9	10.1	.0	.0	.0	23.4

PERIOD: (OVER-ALL) 1963-1969 FEBRUARY AREA 0002 CAIRNS

TABLE 18 (CONT) 17.25 146.0E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2	.0	2.0	.0	.0	.0	.0	2.0
1-2	.0	1.2	2.8	.0	.0	.0	4.0	.0	2.4	.0	.0	.0	.0	2.4
3-4	.0	1.2	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
5-6	.0	1.6	.0	.0	.0	.0	1.6	.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
TOT PCT	.0	5.2	2.8	.0	.0	.0	8.1	.0	4.4	.0	.0	.0	.0	4.4

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	1.6	
1-2	.0	1.2	.0	.0	.0	.0	1.2	.0	1.6	.0	.0	.0	.0	1.6	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	1.6	
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	
TOT PCT	.0	1.2	.0	.0	.0	.0	1.2	.0	3.2	1.6	.0	.0	.0	4.8	96.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.5	12.9	.0	.0	.0	.0	19.4	
1-2	.0	45.2	11.3	.0	.0	.0	56.5	
3-4	.0	1.6	12.9	.0	.0	.0	14.5	
5-6	.0	1.6	6.5	.0	.0	.0	8.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	1.6	.0	.0	.0	1.6	
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	
								62
TOT PCT	6.5	61.3	32.3	.0	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1969 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	16.7	45.1	14.7	2.9	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	2
6-7	.0	2.9	2.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	3
8-9	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.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	
INDET	10.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	0
TOTAL	28	49	17	6	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	102	2
PCT	27.5	48.0	16.7	5.9	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1924-1969
(OVER-ALL) 1882-1969

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	6.8	.0	.0	.0	.0	.0	.0	6.8	.0	.0	.0	.0	.0	.0	93.2
NE	12.3	11.3	3.8	.0	.0	.0	.0	27.4	3.8	3.8	.0	.0	.0	.0	65.1
E	7.7	11.3	.0	.0	.0	.0	.0	19.1	4.1	.0	.0	.0	.0	.0	76.8
SE	9.6	15.3	.6	.0	.0	.0	.0	25.4	3.9	.0	.0	.0	1.1	.0	69.6
S	16.7	5.7	.0	.0	.0	.0	.0	22.4	1.6	4.5	.0	.0	.0	.0	73.2
SW	8.3	13.9	5.6	.0	.0	.0	.0	27.8	.0	1.4	.0	.0	.0	.0	70.8
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	80.0
NW	14.3	.0	.0	.0	.0	.0	.0	14.3	7.1	1.8	.0	.0	7.1	.0	69.6
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	16.7	.0	.0	.0	.0	.0	83.3
TOT PCT	10.5	11.3	.8	.0	.0	.0	.0	22.5	3.5	1.3	.0	.0	.8	.0	72.1
TOT OBS:	373														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	7.1	9.4	1.2	.0	.0	.0	.0	17.6	3.5	.0	.0	.0	.0	.0	78.8
06&09	13.0	8.3	.9	.0	.0	.0	.0	22.2	3.7	.0	.0	.0	.9	.0	73.1
12&15	11.8	13.2	1.5	.0	.0	.0	.0	26.5	2.9	2.9	.0	.0	1.5	.0	66.2
18&21	10.3	13.7	.0	.0	.0	.0	.0	23.9	3.4	2.6	.0	.0	.9	.0	70.1
TOT PCT	10.6	11.1	.8	.0	.0	.0	.0	22.5	3.4	1.3	.0	.0	.8	.0	72.2
TOT OBS:	378														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	4.5	.5	.0	.0	.0		5.5	6.4	2.6	6.4	5.0	6.5	4.6	5.7	4.8	5.7
NE	.5	3.9	.9	.2	.0	.0		5.5	7.8	.0	4.1	6.4	4.4	16.4	5.7	3.5	6.7
E	.7	9.1	3.3	.1	.0	.0		13.2	9.4	6.0	8.7	16.8	14.7	18.4	11.4	17.0	10.3
SE	2.6	23.9	20.1	2.8	.0	.0		49.4	11.2	50.0	45.4	57.7	46.5	45.4	53.8	50.3	45.4
S	1.2	8.4	4.7	.3	.2	.0		14.8	9.6	16.4	21.6	8.7	14.0	10.5	14.6	12.3	18.3
SW	1.1	1.9	.4	.0	.0	.0		3.4	5.5	6.9	5.0	.0	5.4	1.3	.6	2.0	6.4
W	.2	.7	.0	.0	.0	.0		.9	6.9	.0	1.8	.0	.0	.0	.0	3.3	.5
NW	1.3	2.7	.5	.0	.0	.0		4.5	5.9	11.2	3.2	1.5	4.7	.7	5.7	6.0	5.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9							2.9	.1	6.9	3.7	4.0	3.7	2.6	2.5	1.0	1.0
TOT OBS	73	363	201	22	1	0	660		9.5	29	109	101	107	38	79	100	97
TOT PCT	11.1	55.0	30.5	3.3	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)									HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.4	2.1	.0	.0	.0		5.5	6.4	5.6	5.8	5.3	5.2
NE	3.0	2.3	.2	.0	.0		5.5	7.8	3.3	5.4	9.2	5.1
E	3.7	8.0	1.5	.0	.0		13.2	9.4	8.2	15.7	13.7	13.7
SE	11.5	28.6	8.5	.8	.0		49.4	11.2	46.4	51.9	51.1	47.8
S	6.1	6.4	1.9	.3	.0		14.8	9.6	20.5	11.4	13.2	15.2
SW	2.5	.9	.0	.0	.0		3.4	5.5	5.4	2.8	.9	4.2
W	.3	.6	.0	.0	.0		.9	6.9	1.4	.0	.0	1.9
NW	3.0	1.5	.0	.0	.0		4.5	5.9	4.9	3.1	4.1	5.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.9						2.9	.1	4.3	3.8	2.6	1.0
TOT OBS	240	333	80	7	0	660		9.5	138	208	117	197
TOT PCT	36.4	50.5	12.1	1.1	.0		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1924-1969
(OVER-ALL) 1882-1969

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.3	8.7	53.6	31.2	2.2	.0	.0	8.9	100.0	138
06&09	3.8	8.2	56.7	27.4	3.4	.5	.0	9.4	100.0	208
12&15	2.6	3.4	48.7	40.2	5.1	.0	.0	10.5	100.0	117
18&21	1.0	10.7	57.9	27.4	3.0	.0	.0	9.4	100.0	197
TOT	19	54	363	201	22	1	0	9.5		660
PCT	2.9	8.2	55.0	30.5	3.3	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	.6	.8	.0		4.3
NE	1.7	3.4	3.4	.2		4.0
E	3.6	3.6	2.3	4.9		4.8
SE	8.1	14.2	16.5	14.0		5.2
S	1.9	3.4	3.2	2.8		5.0
SW	.8	.0	.8	.2		4.4
W	.8	.6	.0	.0		1.7
NW	1.1	.4	1.7	.8		5.3
VAR	.0	.0	.0	.0		.0
CALM	.8	.0	2.5	.0		4.2
TOT OBS	23	31	37	27	118	4.9
TOT PCT	19.5	26.3	31.4	22.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	
NE	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	6.8	
E	.0	.0	.0	1.7	1.3	.0	.8	.8	.0	.0	9.7	
SE	.0	.0	1.7	5.9	14.2	1.7	.8	.0	.0	.0	28.4	
S	.0	.0	.0	.8	2.8	.0	.0	.0	.0	.0	7.6	
SW	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.7	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
NW	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	2.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	2.5	
TOT OBS	0	0	2	11	24	3	3	1	0	0	74	118
TOT PCT	.0	.0	1.7	9.3	20.3	2.5	2.5	.8	.0	.0	62.7	100.0

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 >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.8	.8	.8	.8	.8	.8	.8	.8
= OR >3500	2.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
= OR >2000	5.1	5.9	5.9	5.9	5.9	5.9	5.9	5.9
= OR >1000	16.9	23.7	23.7	25.4	25.4	25.4	25.4	25.4
= OR >600	20.3	32.2	33.1	34.7	34.7	34.7	34.7	34.7
= OR >300	20.3	33.9	34.7	36.4	36.4	36.4	36.4	36.4
= OR >150	20.3	33.9	34.7	36.4	36.4	36.4	36.4	36.4
= OR > 0	20.3	33.9	34.7	36.4	36.4	36.4	36.4	36.4
TOTAL	24	40	41	43	43	43	43	43

TOTAL NUMBER OF OBS: 118 PCT FREQ NH <5/8: 63.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.2	8.5	17.7	20.8	10.8	8.5	10.0	3.1	14.6	.0	130

PERIOD: (PRIMARY) 1924-1969
(OVER-ALL) 1882-1969

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
1<2	PCP	.0	.0	.1	.9	.0	.3	.0	.3	.0	.0	1.6	
	NO PCP	.0	.0	.0	.5	.0	.0	.0	.3	.0	.0	.8	
	TOT %	.0	.0	.1	1.5	.0	.3	.0	.5	.0	.0	2.4	
2<5	PCP	.0	.4	.3	.7	.5	.3	.0	.0	.0	.0	2.2	
	NO PCP	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.4	.3	1.5	.5	.3	.0	.0	.0	.0	3.0	
5<10	PCP	.3	1.0	1.5	9.0	3.0	.5	.0	.3	.0	.0	15.6	
	NO PCP	.9	2.3	3.6	11.8	2.9	1.6	.5	.8	.0	.0	24.5	
	TOT %	1.2	3.3	5.1	20.8	5.8	2.2	.5	1.1	.0	.0	40.1	
10+	PCP	.0	.5	.5	1.6	.3	.0	.0	.0	.0	.0	3.0	
	NO PCP	2.8	2.9	7.0	22.6	9.9	1.9	.5	2.2	.0	1.6	51.3	
	TOT %	2.8	3.4	7.5	24.3	10.2	1.9	.5	2.2	.0	1.6	54.3	
	TOT OBS												372
	TOT PCT	4.0	7.1	13.0	48.1	16.5	4.8	1.0	3.8	.0	1.6	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.1	.1	.2	.0	.0	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.4	.0	.0	.0	.4	.0		.7	
	11-21	.0	.0	.1	1.5	.1	.0	.0	.0	.0		1.7	
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	TOT %	.0	.0	.1	1.9	.2	.2	.0	.4	.0	.0	2.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	1.2	.3	.2	.0	.0	.0		1.7	
	11-21	.0	.1	.1	1.1	.6	.2	.0	.0	.0		2.0	
	22+	.0	.2	.1	.5	.0	.0	.0	.0	.0		.7	
	TOT %	.0	.3	.2	2.7	.9	.4	.0	.0	.0	.0	4.4	
5<10	0-3	.2	.2	.3	.5	.3	.5	.0	.0	.0	.4	2.2	
	4-10	.8	1.5	2.0	6.8	2.5	1.1	.4	1.1	.0		16.2	
	11-21	.2	.7	1.9	8.0	1.8	.2	.0	.0	.0		12.9	
	22+	.0	.0	.0	.9	.0	.0	.0	.0	.0		.9	
	TOT %	1.2	2.4	4.2	16.2	4.7	1.8	.4	1.1	.0	.4	32.3	
10+	0-3	.0	.1	.4	1.3	.9	.6	.2	1.1	.0	1.8	6.5	
	4-10	3.5	2.8	7.0	15.2	6.6	1.0	.3	1.4	.0		37.8	
	11-21	.3	.4	1.0	10.9	2.7	.0	.0	.3	.0		15.5	
	22+	.0	.0	.0	.3	.1	.0	.0	.0	.0		.4	
	TOT %	3.7	3.3	8.4	27.7	10.3	1.6	.5	2.8	.0	1.8	60.1	
	TOT OBS												542
	TOT PCT	4.9	5.9	12.9	48.7	16.1	4.1	.9	4.2	.0	2.2	100.0	

MARCH

PERIOD: (PRIMARY) 1924-1969
(OVER-ALL) 1887-1969

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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
00603	.0	.0	3.3	6.7	20.0	3.3	.0	3.3	.0	.0	36.7	63.3	30
06609	.0	.0	.0	12.5	12.5	3.1	9.4	.0	.0	.0	37.5	62.5	32
12615	.0	.0	2.8	5.6	25.0	2.8	.0	.0	.0	.0	36.1	63.9	36
18621	.0	.0	.0	10.3	17.2	.0	.0	.0	.0	.0	27.6	72.4	29
TOT	0	0	2	11	24	3	3	1	0	0	44	83	127
PCT	.0	.0	1.6	8.7	18.9	2.4	2.4	.8	.0	.0	34.6	65.4	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
00603	.0	.0	1.9	2.8	21.3	74.1	108
06609	.0	.0	2.9	4.7	36.3	56.1	171
12615	.0	1.0	2.9	5.9	36.3	53.9	102
18621	.0	.6	3.0	4.2	33.1	59.0	166
TOT	0	2	15	24	177	329	547
PCT	.0	.4	2.7	4.4	32.4	60.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 4+	TOTAL OBS
00603	.0	3.7	11.1	25.9	63.0	27
06609	.0	.0	12.9	25.8	61.3	31
12615	.0	2.9	11.4	25.7	62.9	35
18621	.0	.0	16.0	16.0	68.0	25
TOT	0	2	15	28	75	118
PCT	.0	1.7	12.7	23.7	63.6	100.0

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
90/94	.0	.0	.0	.0	.0	.7	.0	.0	2	.7
85/89	.0	.0	.0	.4	1.9	1.5	.7	.0	12	4.5
80/84	.0	.0	.0	.7	6.3	22.8	26.5	8.6	174	64.9
75/79	.0	.0	.0	.0	1.1	7.5	7.8	10.8	72	27.2
70/74	.0	.0	.0	.0	.0	.0	.4	2.2	7	2.6
TOTAL	0	0	0	3	25	87	95	58	268	100.0
PCT	.0	.0	.0	1.1	9.3	32.5	35.4	21.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.7	.0	.0	.0	.0	.0	.0
.0	.4	.0	3.0	.7	.0	.0	.0	.0	.4
2.0	5.0	10.3	32.5	9.8	1.6	.3	2.4	.0	1.1
.4	.6	3.8	12.6	6.2	2.2	.4	1.1	.0	.0
.0	.4	.0	1.0	1.2	.0	.0	.0	.0	.0
2.3	6.3	14.1	49.8	17.9	3.8	.7	3.5	.0	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
00603	90	88	87	82	77	73	72	81.8	131
06609	93	90	86	81	77	74	73	81.3	207
12615	83	82	82	80	75	72	72	79.8	117
18621	86	84	83	80	75	72	72	79.5	192
TOT	93	88	85	81	76	73	72	80.6	647

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
00603	.0	.0	10.9	32.7	36.4	20.0	81	55
06609	.0	2.4	9.6	27.7	39.8	20.5	82	83
12615	.0	1.9	11.1	40.7	33.3	13.0	79	54
18621	.0	.0	6.3	31.6	30.4	31.6	84	79
TOT	0	3	25	88	95	60	82	271

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PERIOD: (PRIMARY) 1924-1969
(OVER-ALL) 1882-1969

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.7	.4	3	.0	1.1
6	.0	.0	.0	.7	.0	2	.0	.7
5	.0	.4	.0	.0	.4	2	.0	.7
4	.0	.7	1.1	.7	.0	7	.0	2.5
3	.0	.0	2.2	.7	.0	8	.0	2.9
2	.0	.4	9.4	2.2	.0	33	.0	11.9
1	.0	2.9	6.5	.7	.0	28	.0	10.1
0	.7	5.4	13.7	.7	.0	57	.0	20.6
-1	.0	8.3	9.4	.0	.0	49	.0	17.7
-2	.4	8.3	5.1	.0	.0	38	.0	13.7
-3	.4	2.2	2.2	.0	.0	13	.0	4.7
-4	.0	5.8	2.5	.0	.0	23	.0	8.3
-5	.7	1.8	1.4	.0	.0	11	.0	4.0
-6	.0	.7	.0	.0	.0	2	.0	.7
-9/-10	.4	.0	.0	.0	.0	1	.0	.4
TOTAL	7	102	148	18	2	277	0	277
PCT	2.5	36.8	53.4	6.5	.7	100.0		100.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.2	.0	.0	.0	.0	2.2
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	2.2	.0	.0	.0	.0	2.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	3.7	.3	.0	.0	.0	4.0
3-4	.0	1.2	1.2	.0	.0	.0	2.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	6.2	1.5	.0	.0	.0	7.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.2	.0	.0	.0	.0	2.2
1-2	.0	6.8	3.1	.0	.0	.0	9.9
3-4	.0	4.6	3.7	.0	.0	.0	8.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	13.6	6.8	.0	.0	.0	20.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.8	2.5	.0	.0	.0	5.2
1-2	1.2	7.1	8.6	.0	.0	.0	17.0
3-4	.0	7.7	7.4	3.7	.0	.0	18.8
5-6	.0	1.2	6.8	1.2	.0	.0	9.3
7	.0	.0	1.2	.0	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.2	18.8	26.5	4.9	.0	.0	51.5

PERIOD: (OVER-ALL) 1963-1969

MARCH

TABLE 18 (CONT)

AREA 0002 CAIRNS
17.2S 146.0E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	3.4	4.0	.0	.0	.0	7.4	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	2.2	.0	.0	.0	2.2	.0	1.2	.3	.0	.0	.0	1.5
5-6	.0	.0	3.1	.0	.0	.0	3.1	.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
TOT PCT	.0	3.4	9.3	.0	.0	.0	12.7	.0	2.5	.3	.0	.0	.0	2.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.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	1.2	.0	.0	.0	1.2	
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	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.2	.0	.0	.0	1.5	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.4	9.8	2.4	.0	.0	.0	14.6	
1-2	1.2	20.7	15.9	.0	.0	.0	37.8	
3-4	.0	14.6	14.6	3.7	.0	.0	32.9	
5-6	.0	1.2	9.8	1.2	.0	.0	12.2	
7	.0	.0	2.4	.0	.0	.0	2.4	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
								82
TOT PCT	3.7	46.3	45.1	4.9	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1969

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	8.5	27.4	17.1	6.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	2
6-7	.0	2.6	9.4	6.8	11.1	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	5
8-9	.0	.0	.9	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.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	
INDET	6.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	0
TOTAL	17	36	32	16	14	1	0	0	1	0	0	0	0	0	0	0	0	0	0	117	3
PCT	14.5	30.8	27.4	13.7	12.0	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1882-1969

AREA 0002 CAIRNS
17.25 146.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NE	.0	6.5	6.5	.0	.0	.0	.0	12.9	.0	.0	.0	.0	.0		.0	87.1
E	2.0	5.9	.0	.0	.0	.0	.0	7.8	.0	2.0	4.9	.0	.0		.0	85.3
SE	7.9	5.0	1.2	.0	.0	.0	.0	14.1	1.9	.6	3.6	.0	.6		.0	79.8
S	2.4	5.8	9.7	.0	.0	.0	.0	17.9	4.8	.0	9.2	.0	1.9		.0	66.2
SW	12.5	.0	.0	.0	.0	.0	.0	12.5	3.1	6.3	.0	.0	.0		.0	78.1
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
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	.0		.0	100.0
TOT PCT	5.2	4.6	2.5	.0	.0	.0	.0	12.3	1.8	.9	4.0	.0	.6		.0	80.7
TOT OBS:	326															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	6.1	4.9	2.4	.0	.0	.0	.0	13.4	2.4	.0	2.4	.0	1.2		.0	80.5
06&09	7.1	5.1	2.0	.0	.0	.0	.0	14.3	1.0	3.1	4.1	.0	1.0		.0	78.6
12&15	6.3	.0	4.8	.0	.0	.0	.0	11.1	1.6	1.6	1.6	.0	.0		.0	84.1
18&21	1.9	7.7	1.0	.0	.0	.0	.0	10.6	1.9	.0	5.8	.0	.0		.0	81.7
TOT PCT	5.2	4.9	2.3	.0	.0	.0	.0	12.4	1.7	1.2	3.7	.0	.6		.0	81.0
TOT OBS:	347															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	1.7	.0	.0	.0	.0		2.8	4.3	.0	3.1	2.2	2.3	.0	3.8	3.8	3.2
NE	1.9	2.7	.5	.0	.0	.0		5.1	5.4	1.0	2.0	5.9	12.2	1.0	5.8	4.1	2.9
E	1.2	10.1	4.2	.2	.0	.0		15.7	8.6	7.3	12.0	15.6	20.9	25.0	19.2	13.5	13.1
SE	1.7	22.8	22.1	2.3	.0	.0		48.9	11.3	54.2	53.3	58.6	43.6	51.9	40.4	45.3	47.4
S	1.3	10.1	4.6	.5	.0	.0		16.5	9.4	18.8	20.9	13.4	13.4	14.4	16.0	16.2	18.9
SW	1.5	2.8	.6	.0	.0	.0		5.0	5.6	14.6	4.6	1.1	2.6	.0	4.5	9.9	6.1
W	1.3	.7	.0	.0	.0	.0		2.0	3.3	4.2	1.0	.0	2.0	.0	2.6	2.7	3.8
NW	.0	1.6	.2	.0	.0	.0		1.7	6.8	.0	1.0	.0	1.7	.0	3.8	2.2	3.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0	.0	2.0	3.2	1.2	7.7	3.8	2.2	1.3
TOT OBS	71	301	185	17	0	0	574		9.3	24	98	93	86	26	78	91	78
TOT PCT	12.4	52.4	32.2	3.0	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.4	.3	.0	.0	.0		2.8	4.3	2.5	2.2	2.9	3.6
NE	3.8	1.1	.2	.0	.0		5.1	5.4	1.8	8.9	4.6	3.6
E	6.4	8.2	1.0	.0	.0		15.7	8.6	11.1	18.2	20.7	13.3
SE	10.5	29.5	8.8	.2	.0		48.9	11.3	53.5	51.4	43.3	46.3
S	5.9	8.7	2.0	.0	.0		16.5	9.4	20.5	13.4	15.6	17.5
SW	3.7	1.2	.1	.0	.0		5.0	5.6	6.6	1.8	3.4	8.1
W	1.8	.2	.0	.0	.0		2.0	3.3	1.6	1.0	1.9	3.3
NW	1.1	.6	.0	.0	.0		1.7	6.8	.8	.8	2.9	2.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.0	1.6	2.2	4.8	1.8
TOT OBS	218	286	69	1	0	574		9.3	122	179	104	169
TOT PCT	38.0	49.8	12.0	.2	.0		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1882-1969

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.6	9.8	49.2	36.1	3.3	.0	.0	9.7	100.0	122
06&09	2.2	11.2	58.1	25.7	2.8	.0	.0	8.5	100.0	179
12&15	4.8	8.7	51.0	32.7	2.9	.0	.0	9.2	100.0	104
18&21	1.8	9.5	49.7	36.1	3.0	.0	.0	9.6	100.0	169
TOT	14	57	301	185	17	0	0	9.3		574
PCT	2.4	9.9	52.4	32.2	3.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.6	.0	.0	.0		.6
NE	.5	.0	.3	.3		4.7
E	10.3	.8	3.5	1.0		3.0
SE	10.3	15.5	15.5	7.6		4.2
S	2.7	4.9	5.2	5.4		5.2
SW	2.2	.5	2.7	.0		4.0
W	.0	1.1	.0	.0		3.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	1.1	.0	.0	.0		.0
TOT OBS	32	21	25	14	92	4.1
TOT PCT	34.8	22.8	27.2	15.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	
NE	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.8	
E	.0	.0	.0	.8	.8	.0	.0	.0	.0	.0	14.9	
SE	.0	.0	.0	3.8	5.7	5.4	2.2	.0	.0	.0	37.8	
S	.0	.0	.0	3.0	1.9	1.6	3.3	.0	.0	.0	8.4	
SW	.0	.0	.0	.0	1.1	.5	.0	.0	1.1	.0	2.7	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
TOT OBS	0	0	0	7	9	7	5	0	1	0	63	92
TOT PCT	.0	.0	.0	7.6	9.8	7.6	5.4	.0	1.1	.0	68.5	100.0

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 >50YD	= OR >0
= OR >6500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >5000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >3500	3.2	3.2	4.3	6.5	6.5	6.5	6.5	6.5
= OR >2000	9.7	9.7	11.8	14.0	14.0	14.0	14.0	14.0
= OR >1000	18.3	18.3	21.5	23.7	23.7	23.7	23.7	23.7
= OR >600	21.5	24.7	29.0	31.2	31.2	31.2	31.2	31.2
= OR >300	21.5	24.7	29.0	31.2	31.2	31.2	31.2	31.2
= OR >150	21.5	24.7	29.0	31.2	31.2	31.2	31.2	31.2
= OR > 0	21.5	24.7	29.0	31.2	31.2	31.2	31.2	31.2
TOTAL	20	23	27	29	29	29	29	29

TOTAL NUMBER OF OBS: 93

PCT FREQ NH <5/8: 68.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
7.8	17.5	17.5	17.5	8.7	7.8	6.8	4.9	11.7	.0	103

PERIOD: (PRIMARY) 1921-1969
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
1<2	PCP	.0	.3	.0	.2	.5	.0	.0	.0	.0	.0	.9	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.3	.0	.2	.5	.0	.0	.0	.0	.0	.9	
2<5	PCP	.0	.0	.0	1.0	.2	.3	.0	.0	.0	.0	1.5	
	NO PCP	.3	.0	.9	.3	.9	.1	.2	.0	.0	.0	2.8	
	TOT %	.3	.0	.9	1.3	1.2	.4	.2	.0	.0	.0	4.3	
5<10	PCP	.0	.3	1.2	4.1	1.1	.0	.0	.0	.0	.0	6.7	
	NO PCP	.8	2.5	4.0	20.0	4.8	2.3	1.5	1.2	.0	1.5	38.7	
	TOT %	.8	2.8	5.2	24.2	5.9	2.3	1.5	1.2	.0	1.5	45.4	
10+	PCP	.0	.0	.0	1.7	1.1	.0	.0	.0	.0	.0	2.8	
	NO PCP	1.8	1.7	9.5	22.1	7.3	1.9	.9	.2	.0	.9	46.3	
	TOT %	1.8	1.7	9.5	23.8	8.4	1.9	.9	.2	.0	.9	49.1	
	TOT OBS												326
	TOT PCT	2.9	4.8	15.6	49.4	15.9	4.9	2.7	1.4	.0	2.5	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.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	
	4-10	.0	.0	.0	.0	.0	.2	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	4-10	.0	.2	.0	.1	.6	.0	.0	.0	.0		.9	
	11-21	.0	.0	.0	.2	.2	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.0	.3	.8	.0	.2	.0	.0	.0	1.6	
2<5	0-3	.2	.0	.0	.0	.0	.1	.2	.0	.0	.0	.5	
	4-10	.0	.0	.7	.1	.6	.2	.0	.0	.0		1.6	
	11-21	.0	.0	.2	.9	.7	.0	.0	.0	.0		1.4	
	22+	.0	.0	.0	.7	.0	.0	.0	.0	.0		.7	
	TOT %	.2	.0	.9	1.7	.9	.3	.2	.0	.0	.0	4.2	
5<10	0-3	.0	1.3	.3	.7	.8	1.0	.7	.0	.0	1.2	6.0	
	4-10	.6	.5	2.1	9.1	2.6	.5	.5	.7	.0		16.5	
	11-21	.0	.3	1.7	9.1	1.4	.2	.0	.2	.0		13.0	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.6	2.1	4.2	19.1	4.8	1.7	1.2	.9	.0	1.2	35.8	
10+	0-3	.9	1.0	.9	1.0	.6	.5	.6	.0	.0	.9	6.5	
	4-10	1.6	1.8	7.2	12.6	6.0	1.9	.3	.9	.0		32.3	
	11-21	.0	.1	1.2	12.8	3.3	.6	.0	.0	.0		17.9	
	22+	.0	.0	.0	.9	.5	.0	.0	.0	.0		1.4	
	TOT %	2.6	2.9	9.3	27.3	10.3	3.0	.9	.9	.0	.9	58.1	
	TOT OBS												430
	TOT PCT	3.4	5.2	14.4	48.5	16.8	5.2	2.5	1.9	.0	2.1	100.0	

APRIL

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1882-1969

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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
00&03	.0	.0	.0	3.8	11.5	11.5	3.8	.0	3.8	.0	34.6	65.4	26
06&09	.0	.0	.0	10.7	.0	3.6	7.1	.0	.0	.0	21.4	79.6	28
12&15	.0	.0	.0	12.5	16.7	.0	4.2	.0	.0	.0	33.3	66.7	24
18&21	.0	.0	.0	.0	9.1	13.6	4.5	.0	.0	.0	27.3	72.7	22
TOT	0	0	0	7	9	7	5	0	1	0	29	71	100
PCT	.0	.0	.0	7.0	9.0	7.0	5.0	.0	1.0	.0	29.0	71.0	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
00&03	.0	.0	1.1	2.1	26.6	70.2	94
06&09	.0	.7	2.9	6.5	42.0	47.8	138
12&15	.0	.0	1.2	1.2	41.2	56.5	85
18&21	.0	.0	.7	5.2	36.6	57.5	134
TOT	0	1	7	19	167	257	451
PCT	.0	.2	1.6	4.2	37.0	57.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	8.0	28.0	64.0	25
06&09	.0	.0	15.4	7.7	76.9	26
12&15	.0	.0	19.0	19.0	61.9	21
18&21	.0	.0	9.5	19.0	71.4	21
TOT	0	0	12	17	64	93
PCT	.0	.0	12.9	18.3	68.8	100.0

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
90/94	.0	.0	.0	.0	.0	.4	.0	.0	1	.4
85/89	.0	.0	.0	.4	.0	.4	.4	.4	4	1.7
80/84	.0	.0	.0	.9	5.6	9.9	12.4	4.7	78	33.5
75/79	.0	.0	.0	.9	1.7	26.2	24.5	7.3	141	60.5
70/74	.0	.0	.0	.9	.0	.4	.4	1.7	8	3.4
65/69	.0	.0	.0	.0	.4	.0	.0	.0	1	.4
TOTAL	0	0	0	7	18	87	88	33	233	100.0
PCT	.0	.0	.0	3.0	7.7	37.3	37.8	14.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
.0	.0	.0	.5	.8	.4	.0	.0	.0	.0
.4	2.0	3.1	19.8	3.5	1.6	.8	.9	.0	1.3
1.3	2.0	11.5	31.0	10.1	2.3	.9	.2	.0	1.3
.0	.0	.0	1.9	1.1	.0	.0	.4	.0	.0
.0	.0	.0	.2	.2	.0	.0	.0	.0	.0
1.7	4.1	14.6	54.0	15.7	4.3	1.6	1.5	.0	2.6

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	95	92	87	80	75	73	71	80.3	124
06&09	87	86	84	79	75	72	69	79.2	183
12&15	82	81	81	78	74	73	73	77.8	108
18&21	85	84	81	78	74	71	71	77.6	173
TOT	95	87	84	78	74	72	69	78.7	588

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	1.9	9.6	40.4	30.8	17.3	80	52
06&09	.0	5.6	14.1	42.3	25.4	12.7	77	71
12&15	.0	2.1	.0	31.9	53.2	12.8	82	47
18&21	.0	1.4	5.4	33.8	44.6	14.9	81	74
TOT	0	7	19	91	92	35	80	244

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1882-1969

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.4	1	.0	.4
9/10	.0	.0	.0	.0	.0	.4	.0	1	.0	.4
7/8	.0	.0	.4	.4	.4	.0	.0	3	.0	1.1
6	.0	.0	.0	.4	.4	.0	.0	2	.4	.4
5	.0	.0	.0	.7	.0	.0	.0	2	.0	.7
4	.0	.0	.0	1.5	.4	.0	.0	5	.4	1.5
3	.0	.0	.4	2.6	.4	.0	.0	9	.4	3.0
2	.0	.0	5.6	3.3	.0	.0	.0	24	.4	8.5
1	.0	.7	8.5	5.2	.0	.0	.0	39	.7	13.7
0	.0	.0	14.4	3.3	.0	.0	.0	48	1.1	16.7
-1	.0	.7	14.1	1.5	.0	.0	.0	44	1.5	14.8
-2	.0	3.3	14.1	1.9	.0	.0	.0	52	.0	19.3
-3	.0	1.1	5.6	.4	.0	.0	.0	19	.0	7.0
-4	.0	1.5	4.8	.0	.0	.0	.0	17	.0	6.3
-5	.0	.0	.4	.0	.0	.0	.0	1	.0	.4
-6	.0	.0	.4	.0	.0	.0	.0	1	.0	.4
-7/-8	.4	.4	.0	.0	.0	.0	.0	2	.0	.7
TOTAL	1		185		4		1		13	257
		21		57		1		270		
PCT	.4	7.8	68.5	21.1	1.5	.4	.4	100.0	4.8	95.2

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.0	.4	.0	.0	.0	.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.5	.0	.0	.0	.0	5.5
1-2	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	5.1	2.7	.0	.0	.0	7.8
5-6	.0	.0	1.6	.0	.0	.0	1.6
7	.0	.0	1.2	.0	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	11.7	5.5	.0	.0	.0	17.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	5.5	.4	.0	.0	.0	7.4
1-2	.0	10.2	2.0	.0	.0	.0	12.1
3-4	1.6	8.2	7.4	.0	.0	.0	17.2
5-6	.0	.0	16.0	1.6	.0	.0	17.6
7	.0	.0	4.7	1.6	.0	.0	6.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	3.1	23.8	30.5	3.1	.0	.0	60.5

PERIOD: (OVER-ALL) 1963-1969

APRIL

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17.2S 146.0E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	1.2	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.7	1.2	.0	.0	.0	3.9	.0	1.6	1.6	.0	.0	.0	3.1
3-4	.0	3.9	3.9	.0	.0	.0	7.8	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	2.7	.0	.0	.0	2.7	.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
TOT PCT	.0	8.2	9.0	.0	.0	.0	17.2	.0	1.6	1.6	.0	.0	.0	3.1

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.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	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	98.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.6	12.3	1.5	.0	.0	.0	18.5	
1-2	.0	15.4	4.6	.0	.0	.0	20.0	
3-4	1.5	16.9	13.8	.0	.0	.0	32.3	
5-6	.0	.0	20.0	1.5	.0	.0	21.5	
7	.0	.0	6.2	1.5	.0	.0	7.7	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
								65
TOT PCT	6.2	44.6	46.2	3.1	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1969

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	16.0	30.9	17.0	7.4	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	2
6-7	.0	1.1	6.4	5.3	7.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	5
8-9	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.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	
INDET	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	0
TOTAL	19	30	22	12	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	94	3
PCT	20.2	31.9	23.4	12.8	10.6	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1919-1969
(OVER-ALL) 1875-1969

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17.15 145.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	8.0	.0	.0	.0	.0	8.0	.0	.0	.0	.0	.0		.0	92.0
NE	9.8	.0	.0	.0	.0	.0	.0	9.8	.0	.0	.0	.0	.0		.0	90.2
E	3.8	3.3	1.1	.0	.0	.0	.0	8.2	.0	.0	.0	.0	1.6		.0	90.2
SE	3.8	6.3	1.8	.0	.0	.0	.0	11.8	1.1	.5	.5	.0	.1		.0	85.9
S	6.9	5.0	.0	.0	.0	.0	.0	12.0	.9	.0	.0	.0	.0		.0	87.1
SW	1.4	5.5	.0	.0	.0	.0	.0	6.8	5.5	.0	.0	.0	.0		.0	87.7
W	.0	.0	20.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0		.0	80.0
NW	.0	.0	24.0	.0	.0	.0	.0	24.0	.0	.0	.0	.0	.0		.0	76.0
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	.0		.0	100.0
TOT PCT	4.2	5.0	2.1	.0	.0	.0	.0	11.3	1.0	.3	.3	.0	.3		.0	86.9
TOT OBS:	381															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.8	1.2	2.4	.0	.0	.0	.0	8.3	3.6	.0	.0	.0	.0		.0	88.1
06&09	3.2	4.8	.8	.0	.0	.0	.0	8.8	.0	.0	.0	.0	.0		.0	91.2
12&15	5.9	8.2	1.2	.0	.0	.0	.0	15.3	2.4	1.2	.0	.0	.0		.0	81.2
18&21	5.1	5.1	4.0	.0	.0	.0	.0	14.1	.0	.0	1.0	.0	1.0		.0	83.8
TOT PCT	4.6	4.8	2.0	.0	.0	.0	.0	11.5	1.3	.3	.3	.0	.3		.0	86.5
TOT OBS:	393															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	.7	.0	.0	.0	.0		1.7	3.6	.0	1.1	.8	3.4	.0	4.1	1.0	1.2
NE	.9	1.9	.1	.0	.0	.0		3.0	6.0	4.0	.9	2.9	4.9	.7	5.2	3.6	1.2
E	1.1	6.3	2.5	.1	.0	.0		10.0	8.8	10.0	5.5	7.1	12.7	22.3	13.4	10.8	6.7
SE	2.0	24.9	20.4	3.7	.1	.0		51.1	11.7	48.0	52.2	64.1	57.1	61.5	49.0	37.9	38.4
S	1.6	13.4	6.4	.6	.0	.0		21.9	9.6	24.0	29.9	21.6	14.5	9.5	15.5	20.4	34.6
SW	1.0	3.0	.5	.0	.0	.0		4.5	6.3	14.0	4.0	.8	2.0	.7	1.5	10.8	8.7
W	1.2	1.9	.0	.0	.0	.0		3.1	4.6	.0	3.1	.0	.0	.0	2.1	10.3	6.4
NW	.4	1.0	.0	.0	.0	.0		1.4	4.9	.0	1.5	.8	.5	.0	3.1	1.0	2.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1							3.1	.0	.0	1.8	1.7	4.9	5.4	6.2	4.1	.0
TOT OBS	84	359	202	30	1	0	676		9.7	25	113	119	102	37	97	97	86
TOT PCT	12.4	53.1	29.9	4.4	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.5	.2	.0	.0	.0		1.7	3.6	.9	2.0	3.0	1.1
NE	1.8	1.0	.1	.0	.0		3.0	6.0	1.4	3.8	3.9	2.5
E	3.6	5.7	.8	.0	.0		10.0	8.8	6.3	9.7	15.9	8.9
SE	9.3	31.0	9.3	1.5	.0		51.1	11.7	51.4	60.9	52.4	38.1
S	7.0	12.6	2.2	.1	.0		21.9	9.6	28.8	18.3	13.8	27.0
SW	2.9	1.5	.1	.0	.0		4.5	6.3	5.8	1.4	1.3	9.8
W	2.5	.6	.0	.0	.0		3.1	4.6	2.5	.0	1.5	8.5
NW	1.1	.3	.0	.0	.0		1.4	4.9	1.3	.7	2.2	1.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.1						3.1	.0	1.4	3.2	6.0	2.2
TOT OBS	222	358	85	11	0	676		9.7	138	221	134	183
TOT PCT	32.8	53.0	12.6	1.6	.0		100.0		100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1919-1969
(OVER-ALL) 1875-1969

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	1.4	10.1	44.9	36.2	7.2	.0	.0	10.6	100.0	138
06&09	3.2	8.6	55.7	29.4	2.7	.5	.0	9.5	100.0	221
12&15	6.0	7.5	53.0	30.6	3.0	.0	.0	9.6	100.0	134
18&21	2.2	10.9	56.3	25.1	5.5	.0	.0	9.4	100.0	183
TOT	21	63	359	202	30	1	0	9.7		676
PCT	3.1	9.3	53.1	29.9	4.4	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	2.1	.9	.0	.0		1.5
E	5.6	4.2	4.9	.0		3.5
SE	11.1	9.5	20.6	13.2		5.2
S	4.9	3.0	8.6	1.4		4.5
SW	3.2	.9	1.2	1.2		3.5
W	.0	.0	.0	.0		.0
NW	.9	.0	.0	.0		1.0
VAR	.0	.0	.0	.0		.0
CALM	1.9	.9	.0	.0		2.0
TOT OBS	32	21	38	17	108	4.5
TOT PCT	29.6	19.4	35.2	15.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	
E	.0	.0	.0	.0	.7	1.9	.0	.0	.0	.0	12.0	
SE	.0	.0	2.8	4.9	8.1	5.6	1.9	.0	.0	.0	31.3	
S	.0	.0	.0	.7	3.0	1.6	.9	.0	.0	.0	11.6	
SW	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	8.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	
TOT OBS	0	0	3	6	13	10	3	0	0	0	73	108
TOT PCT	.0	.0	2.8	5.6	12.0	9.3	2.8	.0	.0	.0	67.6	100.0

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 >500YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
= OR >2000	9.9	10.8	11.7	11.7	11.7	11.7	11.7	11.7
= OR >1000	18.9	21.6	23.4	23.4	23.4	23.4	23.4	23.4
= OR >600	23.4	26.1	28.8	28.8	28.8	28.8	28.8	28.8
= OR >300	24.3	27.9	31.5	31.5	31.5	31.5	31.5	31.5
= OR >150	24.3	27.9	31.5	31.5	31.5	31.5	31.5	31.5
= OR > 0	24.3	27.9	31.5	31.5	31.5	31.5	31.5	31.5
TOTAL	27	31	35	35	35	35	35	35

TOTAL NUMBER OF OBS: 111

PCT FREQ NH <5/8: 68.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
7.4	18.0	16.4	14.8	10.7	6.6	9.8	8.2	8.2	.0	122

PERIOD: (PRIMARY) 1919-1969
(OVER-ALL) 1875-1969

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
1<2	PCP	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.3	.0	.4	.4	.0	.0	.0	.0	.0	1.0	
2<5	PCP	.0	.0	.2	.6	.0	.0	.0	.0	.0	.0	.8	
	NO PCP	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	1.6	
	TOT %	.0	.0	.2	2.2	.0	.0	.0	.0	.0	.0	2.4	
5<10	PCP	.1	.0	.8	4.3	2.0	.3	.5	.4	.0	.0	8.4	
	NO PCP	1.3	1.3	4.1	21.1	10.8	1.4	1.3	.9	.0	.3	42.5	
	TOT %	1.4	1.3	4.9	25.3	12.9	1.7	1.8	1.3	.0	.3	50.9	
10+	PCP	.0	.0	.0	1.0	.2	.1	.0	.0	.0	.0	1.3	
	NO PCP	.2	1.1	7.0	22.8	7.3	3.0	.8	.3	.0	1.3	43.8	
	TOT %	.2	1.1	7.0	23.8	7.5	3.1	.8	.3	.0	1.3	45.1	
													381
	TOT OBS												
	TOT PCT	1.6	2.7	12.0	52.2	20.8	4.8	2.6	1.6	.0	1.6	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.3	.3	.0	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.0	.3	.3	.0	.0	.0	.0	.0	.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.6	.0	.0	.0	.0	.0		.8	
	11-21	.0	.0	.0	1.7	.0	.0	.0	.0	.0		1.7	
	22+	.0	.0	.0	.4	.0	.0	.0	.0	.0		.4	
	TOT %	.0	.0	.1	2.7	.0	.0	.0	.0	.0	.0	2.8	
5<10	0-3	.7	.3	.5	.3	.8	.5	.4	.3	.0	.4	3.9	
	4-10	.6	.5	2.4	11.3	7.0	.8	1.0	.9	.0		24.6	
	11-21	.0	.2	1.0	7.8	2.0	.0	.0	.0	.0		11.1	
	22+	.0	.0	.0	2.7	.3	.0	.0	.0	.0		3.0	
	TOT %	1.2	.9	3.9	22.2	10.1	1.3	1.4	1.2	.0	.4	42.7	
10+	0-3	.6	.8	.6	2.1	.8	.8	.4	.1	.0	3.0	9.2	
	4-10	.1	.9	4.0	11.9	6.6	2.3	.5	.4	.0		26.7	
	11-21	.0	.0	1.4	12.0	3.1	.3	.0	.0	.0		16.9	
	22+	.0	.0	.1	.4	.1	.0	.0	.0	.0		.6	
	TOT %	.7	1.7	6.1	26.5	10.7	3.3	.8	.5	.0	3.0	53.4	
													532
	TOT OBS												
	TOT PCT	1.9	2.9	10.2	52.0	21.0	4.7	2.3	1.7	.0	3.4	100.0	

MAY

PERIOD: (PRIMARY) 1919-1969
(OVER-ALL) 1875-1969

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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
00&03	.0	.0	.0	8.0	8.0	16.0	8.0	.0	.0	.0	40.0	60.0	25
06&09	.0	.0	.0	3.0	9.1	15.2	.0	.0	.0	.0	27.3	72.7	33
12&15	.0	.0	8.3	2.8	16.7	2.8	2.8	.0	.0	.0	33.3	66.7	36
18&21	.0	.0	.0	8.7	8.7	.0	.0	.0	.0	.0	17.4	82.6	23
TOT	0	0	3	6	13	10	3	0	0	0	35	82	117
PCT	.0	.0	2.6	5.1	11.1	8.5	2.6	.0	.0	.0	29.9	70.1	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
00&03	.0	.0	1.0	2.9	39.0	57.1	105
06&09	.5	.0	1.1	3.8	39.3	55.2	183
12&15	.0	.0	.9	2.6	45.3	51.3	117
18&21	.0	.7	.0	2.1	50.4	46.8	141
TOT	1	1	4	16	237	287	546
PCT	.2	.2	.7	2.9	43.4	52.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	13.0	30.4	56.5	23
06&09	.0	.0	3.1	25.0	71.9	32
12&15	.0	8.8	14.7	20.6	64.7	34
18&21	.0	.0	9.1	9.1	81.8	22
TOT	0	3	11	24	76	111
PCT	.0	2.7	9.9	21.6	68.5	100.0

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
85/89	.0	.0	.0	.0	.3	.0	.0	.0	1	.3
80/84	.0	.0	.0	.3	2.1	1.7	1.7	.0	17	5.9
75/79	.0	.0	1.4	1.0	5.2	24.2	15.6	10.7	168	58.1
70/74	.0	.0	1.0	1.4	4.8	3.8	10.0	11.1	93	32.2
65/69	.0	.0	.0	.3	.0	1.4	1.0	.7	10	3.5
TOTAL	0	0	7	9	36	90	82	65	289	100.0
PCT	.0	.0	2.4	3.1	12.5	31.1	28.4	22.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.1	.3	.0	.0	.0	.0	.0
	.2	.0	1.1	3.4	.7	.0	.2	.3	.0	.0
	1.0	1.9	7.8	29.4	11.5	2.0	1.7	1.0	.0	1.7
	.3	.4	3.3	15.7	8.5	2.5	.7	.7	.0	.0
	.3	.0	.3	1.0	.7	.7	.2	.2	.0	.0
	1.9	2.3	12.5	49.7	21.6	5.2	2.8	2.2	.0	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	84	83	81	76	71	69	67	75.9	133
06&09	89	83	81	76	72	69	69	76.0	222
12&15	80	79	79	75	71	68	67	74.8	135
18&21	85	79	78	74	69	65	65	73.8	185
TOT	89	83	80	75	70	68	65	75.2	675

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	5.3	15.8	36.8	19.3	22.8	78	57
06&09	.0	7.4	12.6	37.9	29.5	12.6	77	95
12&15	.0	5.8	10.1	24.6	34.8	24.6	81	69
18&21	.0	3.8	13.8	23.8	30.0	28.8	81	80
TOT	0	17	39	93	87	65	79	301

PERIOD: (PRIMARY) 1919-1969
(OVER-ALL) 1875-1969

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) 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	.0	.0	.3	1	.0	.3
9/10	.0	.0	.0	.6	.0	.0	.0	2	.0	.6
7/8	.0	.0	.3	.0	.3	.3	.0	3	.0	.9
5	.0	.0	.9	.9	.6	.0	.0	8	.0	2.5
4	.0	.0	.9	.3	.0	.0	.0	4	.0	1.2
3	.0	.0	1.2	1.8	.3	.0	.0	11	.0	3.4
2	.0	.3	2.2	5.2	.9	.0	.0	28	.0	8.6
1	.0	.3	3.4	8.0	.0	.0	.0	38	.0	11.7
0	.0	.9	11.4	5.5	.3	.0	.0	59	.3	17.8
-1	.0	1.5	8.6	4.6	.0	.0	.0	48	.0	14.8
-2	.0	2.5	10.5	2.8	.3	.0	.0	52	.0	16.0
-3	.0	3.1	5.5	.9	.0	.0	.0	31	.0	9.5
-4	.3	1.5	4.3	.3	.0	.0	.0	21	.0	6.5
-5	.0	.9	1.5	.0	.0	.0	.0	8	.0	2.5
-6	.3	1.2	.3	.0	.0	.0	.0	6	.0	1.8
-7/-8	.0	.6	.6	.0	.0	.0	.0	4	.0	1.2
-11/-13	.3	.0	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	3	42	168	101	9	1	1	325	1	324
PCT	.9	12.9	51.7	31.1	2.8	.3	.3	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3
1-2	.0	1.3	.0	.0	.0	.0	1.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.3	1.3	.0	.0	.0	.0	1.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.0	1.3	.0	.0	.0	.0	3.3
1-2	.0	8.0	.0	.0	.0	.0	8.0
3-4	.0	5.0	3.3	.0	.0	.0	8.3
5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	2.0	14.3	4.7	.0	.0	.0	21.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	1.7	1.3	.0	.0	.0	4.7
1-2	.0	18.7	6.0	.0	.0	.0	24.7
3-4	.0	3.0	19.0	1.3	.0	.0	23.3
5-6	.0	.0	8.0	.0	.0	.0	8.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.7	23.3	34.3	1.3	.0	.0	60.7

PERIOD: (OVER-ALL) 1963-1969

MAY

AREA 0002 CAIRNS
17.1S 145.9E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.3	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	3.0	.0	.0	.0	3.0	.0	2.7	.3	.0	.0	.0	3.0
3-4	.0	.0	7.0	.0	.0	.0	7.0	.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
TOT PCT	.0	2.3	10.0	.0	.0	.0	12.3	.0	2.7	.3	.0	.0	.0	3.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	1.3	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.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	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	1.3	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.5	6.5	1.3	.0	.0	.0	14.3	
1-2	.0	29.9	9.1	.0	.0	.0	39.0	
3-4	.0	7.8	28.6	1.3	.0	.0	37.7	
5-6	.0	.0	9.1	.0	.0	.0	9.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
								77
TOT PCT	6.5	44.2	48.1	1.3	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1969

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	7.0	28.9	26.3	6.1	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	79	3
6-7	.0	1.8	12.3	6.1	3.5	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	4
8-9	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	0	
12-13	.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	
INDET	5.3	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	0
TOTAL	14	35	35	14	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	114	3
PCT	12.3	30.7	30.5	12.3	4.4	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1899-1969
(OVER-ALL) 1883-1969

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17.1S 145.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	10.0	10.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	.0	80.0
NE	.0	13.8	.0	.0	.0	.0	.0	13.8	.0	.0	.0	.0	.0	.0	.0	86.2
E	3.7	11.2	9.3	.0	.0	.0	.0	24.3	.0	.0	1.9	.0	.0	.0	.0	73.8
SE	2.5	10.0	1.1	.0	.0	.0	.0	13.6	1.3	.0	2.0	.0	.4	.0	.0	82.8
S	6.7	3.6	5.9	.0	.0	.0	.0	16.2	.6	1.5	.4	.0	.0	.0	.0	82.1
SW	13.5	.0	2.2	.0	.0	.0	.0	15.7	.0	.0	.0	.0	.0	.0	.0	84.3
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	4.0	4.0	.0	.0	.0	.0	.0	8.0	.0	.0	.0	.0	.0	.0	.0	92.0
VAR	.0	.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	.0	.0	.0	100.0
TOT PCT	4.8	7.2	2.8	.0	.0	.0	.0	14.8	.8	.4	1.2	.0	.2	.0	.0	82.8
TOT OBS:	501															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.7	5.6	1.9	.0	.0	.0	.0	11.1	.0	.0	1.9	.0	.0	.0	.0	87.0
06&09	3.2	7.1	3.2	.0	.0	.0	.0	13.5	.0	.0	1.3	.0	.6	.0	.0	84.5
12&15	5.6	8.4	3.7	.0	.0	.0	.0	17.8	2.8	.9	.9	.0	.0	.0	.0	78.5
18&21	6.4	6.4	1.9	.0	.0	.0	.0	14.6	.6	.6	.6	.0	.0	.0	.0	83.4
TOT PCT	4.7	6.8	2.7	.0	.0	.0	.0	14.2	.8	.4	1.1	.0	.2	.0	.0	83.5
TOT OBS:	527															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	.9	.3	.1	.0	.0		2.4	6.2	.0	2.0	3.3	5.8	.0	2.6	1.6	.5
NE	1.5	1.2	.2	.0	.0	.0		2.8	4.6	.0	2.5	3.9	1.8	.0	3.9	2.0	4.1
E	1.3	4.8	1.6	.5	.0	.0		8.2	8.8	3.4	6.1	9.9	10.3	10.7	12.2	5.1	6.0
SE	2.7	22.0	21.0	3.6	.0	.0		49.3	11.6	55.7	45.1	55.8	52.7	54.5	47.4	46.9	45.9
S	3.1	12.1	7.6	.5	.0	.0		23.3	9.6	31.8	28.3	21.9	17.4	26.8	17.8	26.8	24.3
SW	1.9	5.4	1.2	.0	.0	.0		8.4	7.3	9.1	9.0	2.7	5.8	8.0	7.8	10.6	14.7
W	.7	.7	.1	.0	.0	.0		1.5	4.7	.0	2.5	.0	1.3	.0	1.7	1.6	2.3
NW	1.1	.8	.1	.0	.0	.0		2.0	4.2	.0	3.7	.8	.4	.0	2.2	3.1	2.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0	.0	.8	1.7	4.5	.0	4.3	2.4	.0
TOT OBS	117	362	242	35	0	0	756		9.7	22	122	121	112	28	115	127	109
TOT PCT	15.5	47.9	32.0	4.6	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.9	.3	.3	.0	.0		2.4	6.2	1.7	4.5	2.1	1.1
NE	2.3	.3	.2	.0	.0		2.8	4.6	2.1	2.9	3.1	3.0
E	3.6	3.4	1.2	.0	.0		8.2	8.8	5.7	10.1	11.9	5.5
SE	11.0	25.8	12.4	.1	.0		49.3	11.6	46.7	54.3	48.8	46.4
S	7.5	11.8	3.8	.1	.0		23.3	9.6	28.8	19.7	19.6	25.6
SW	3.8	4.1	.5	.0	.0		8.4	7.3	9.0	4.2	7.9	12.5
W	1.2	.3	.0	.0	.0		1.5	4.7	2.1	.6	1.4	1.9
NW	1.6	.4	.0	.0	.0		2.0	4.2	3.1	.6	1.7	2.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	.7	3.0	3.5	1.3
TOT OBS	265	350	139	2	0	756		9.7	144	233	143	236
TOT PCT	35.1	46.3	18.4	.3	.0		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1899-1969
(OVER-ALL) 1883-1969

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17.15 145.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.7	12.5	43.8	38.2	4.9	.0	.0	10.4	100.0	144
06&09	3.0	13.7	47.6	31.8	3.9	.0	.0	9.5	100.0	233
12&15	3.5	13.3	46.9	30.8	5.6	.0	.0	9.7	100.0	143
18&21	1.3	13.6	51.3	29.2	4.7	.0	.0	9.7	100.0	236
TOT	16	101	362	242	35	0	0	9.7		756
PCT	2.1	13.4	47.9	32.0	4.6	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	1.3	.0	.0	.0		1.0
E	1.8	1.8	.6	1.0		4.0
SE	15.7	12.4	18.6	9.5		4.5
S	13.7	4.4	6.4	2.8		3.2
SW	5.7	1.0	.0	1.0		2.0
W	.0	.0	.0	.0		.0
NW	2.1	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	39	19	25	14	97	3.8
TOT PCT	40.2	19.6	25.8	14.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
E	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	4.4	
SE	.0	.0	.0	10.6	5.4	2.6	2.1	.0	.0	.0	35.6	
S	.0	.0	.0	5.9	.8	1.5	.0	1.0	.0	.0	18.0	
SW	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	6.7	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	0	18	6	4	2	1	0	0	66	97
TOT PCT	.0	.0	.0	18.6	6.2	4.1	2.1	1.0	.0	.0	68.0	100.0

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 >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >3500	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
= OR >2000	6.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
= OR >1000	11.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
= OR >600	28.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
= OR >300	28.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
= OR >150	28.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
= OR > 0	28.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
TOTAL	28	31	31	31	31	31	31	31

TOTAL NUMBER OF OBS: 99 PCT FREQ NH <5/8: 68.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.3	18.3	14.4	11.5	6.7	7.7	5.8	8.7	9.6	.0	104

PERIOD: (PRIMARY) 1899-1969
(OVER-ALL) 1883-1969

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.0	.2	.2	.0	.2	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.2	.4	.0	.2	.0	.0	.0	.0	.8	
1<2	PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
2<5	PCP	.0	.0	.0	.2	.4	.2	.0	.0	.0	.0	.8	
	NO PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.2	.6	.2	.0	.0	.0	.0	1.0	
5<10	PCP	.6	.2	1.1	5.7	3.2	1.0	.0	.2	.0	.0	12.0	
	NO PCP	2.1	.5	2.3	24.1	12.8	4.2	.3	.7	.0	.8	47.7	
	TOT %	2.7	.7	3.4	29.7	16.0	5.2	.3	.9	.0	.8	59.7	
10+	PCP	.0	.0	.0	.7	.4	.0	.0	.0	.0	.0	1.2	
	NO PCP	.3	.7	1.7	19.2	8.8	3.3	.4	1.6	.0	.8	36.9	
	TOT %	.3	.7	1.7	20.0	9.3	3.3	.4	1.6	.0	.8	38.1	
	TOT OBS												501
	TOT PCT	3.0	1.4	5.3	50.4	26.1	8.9	.7	2.5	.0	1.6	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.3	.0	.2	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.2	.3	.0	.2	.0	.0	.0	.0	.6	
1<2	0-3	.0	.0	.0	.0	.2	.0	.1	.1	.0	.3	.6	
	4-10	.0	.0	.1	.3	.1	.0	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.0	.1	.5	.4	.0	.1	.1	.0	.3	1.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	4-10	.0	.0	.0	.2	.5	.0	.0	.0	.0		.6	
	11-21	.0	.0	.0	.8	.2	.2	.0	.0	.0		1.1	
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	TOT %	.0	.0	.0	1.0	.7	.2	.2	.0	.0	.0	2.1	
5<10	0-3	.8	.2	.6	1.5	2.8	1.3	.2	.5	.0	.6	8.4	
	4-10	.9	.2	1.7	9.8	6.2	2.5	.2	.2	.0		21.6	
	11-21	.3	.2	.8	12.5	4.6	1.0	.0	.1	.0		19.6	
	22+	.2	.0	.3	2.7	.3	.0	.0	.0	.0		3.5	
	TOT %	2.1	.6	3.5	26.5	13.9	4.8	.4	.7	.0	.6	53.1	
10+	0-3	.2	.3	.3	1.4	.6	.6	.2	.8	.0	1.4	5.9	
	4-10	.1	.7	1.5	10.5	6.4	2.6	.3	.8	.0		22.9	
	11-21	.0	.0	.6	8.7	3.2	*	.2	.0	.0		12.7	
	22+	.0	.0	.2	.9	.0	.0	.0	.0	.0		1.1	
	TOT %	.3	1.0	2.7	21.5	10.2	3.3	.7	1.6	.0	1.4	42.6	
	TOT OBS												629
	TOT PCT	2.5	1.6	6.4	49.8	25.3	8.3	1.4	2.4	.0	2.4	100.0	

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PERIOD: (PRIMARY) 1899-1969
(OVER-ALL) 1883-1969

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TABLE 10

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

HOUR (GMT)	100 149	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	.0	18.2	9.1	4.5	4.5	.0	.0	.0	36.4	63.6	22
06&09	.0	.0	.0	13.6	4.5	9.[illegible]	.0	.0	.0	.0	27.3	72.7	22
12&15	.0	.0	.0	21.4	3.6	3.6	.0	.0	.0	.0	28.6	71.4	28
18&21	.0	.0	.0	16.7	6.7	.0	3.3	3.3	.0	.0	30.0	70.0	30
TOT	0	0	0	18	6	4	2	1	0	0	31	71	102
PCT	.0	.0	.0	17.6	5.9	3.9	2.0	1.0	.0	.0	30.4	69.6	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
00&03	.8	.0	.0	3.2	47.6	48.4	124
06&09	.0	1.4	2.9	2.9	55.6	37.2	207
12&15	.0	.8	1.5	.8	51.5	45.5	132
18&21	.0	.0	.5	1.0	58.9	39.6	197
TOT	1	4	9	13	358	275	660
PCT	.2	.6	1.4	2.0	54.2	41.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	18.2	18.2	63.6	22
06&09	.0	.0	13.6	13.6	72.7	22
12&15	.0	.0	22.2	7.4	70.4	27
18&21	.0	.0	17.9	14.3	67.9	28
TOT	0	0	18	13	68	99
PCT	.0	.0	18.2	13.1	68.7	100.0

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
85/89	.0	.0	.0	.4	.0	.0	.0	.0	1	.4
80/84	.0	.0	.0	.0	.8	.8	.0	.0	4	1.6
75/79	.0	.0	.4	.9	3.1	9.7	5.8	7.7	58	22.6
70/74	.0	.0	1.6	4.3	7.0	14.8	21.0	10.1	151	58.8
65/69	.0	.0	.4	1.6	2.7	2.7	5.4	2.7	40	15.6
60/64	.0	.0	.0	.0	.4	.4	.0	.4	3	1.2
TOTAL	0	0	6	18	36	73	83	41	257	100.0
PCT	.0	.0	2.3	7.0	14.0	28.4	32.3	16.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
	.2	.0	.0	1.0	.2	.0	.0	.2	.0	.0
	1.0	.2	1.4	12.9	3.8	1.4	.2	1.0	.0	.8
	1.6	1.3	1.5	31.4	15.3	4.7	.0	1.6	.0	1.6
	.4	.0	.0	5.8	4.8	2.6	.8	.8	.0	.4
	.0	.0	.0	.0	.4	.2	.2	.4	.0	.0
	3.1	1.5	2.8	51.6	24.4	8.9	1.2	3.9	.0	2.7

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	82	81	79	74	68	64	63	73.8	144
06&09	90	83	78	73	68	62	62	73.3	243
12&15	82	78	76	72	66	61	61	71.9	148
18&21	81	79	76	72	66	63	61	71.6	231
TOT	90	81	78	73	66	62	61	72.6	766

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	7.4	22.2	33.3	25.9	11.1	75	54
06&09	.0	14.1	14.1	30.8	24.4	16.7	75	78
12&15	.0	10.3	8.6	31.0	36.2	13.8	78	58
18&21	.0	3.8	12.7	24.1	40.5	19.0	80	79
TOT	0	24	38	79	86	42	77	269

PERIOD: (PRIMARY) 1899-1969
(OVER-ALL) 1883-1969

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.0	.0	.2	.0	.0	1	.0	.2
6	.0	.0	.0	.0	.2	.0	.0	1	.0	.2
5	.0	.0	.0	.9	.4	.2	.0	7	.0	1.5
4	.0	.0	.2	.0	1.3	.2	.0	8	.0	1.7
3	.0	.0	.0	.9	1.5	.2	.0	12	.0	2.6
2	.0	.0	1.1	2.8	2.4	.4	.0	31	.0	6.7
1	.0	.2	3.2	3.6	1.9	.2	.0	43	.4	8.8
0	.0	.4	4.9	10.1	6.4	.0	.0	102	.6	21.2
-1	.0	1.1	4.9	7.7	.0	.0	.0	64	.0	13.7
-2	.0	1.5	5.8	7.5	.2	.0	.0	70	.2	14.8
-3	.0	1.1	3.4	5.6	.0	.0	.0	47	.0	10.1
-4	.0	2.1	3.9	1.5	.2	.0	.0	36	.0	7.7
-5	.2	.9	3.9	.0	.0	.0	.0	23	.0	4.9
-6	.0	1.3	.2	.2	.0	.0	.0	8	.0	1.7
-7/-8	.6	1.1	.4	.2	.0	.0	.0	11	.0	2.4
-9/-10	.0	.0	.0	.2	.0	.0	.0	1	.0	.2
TOTAL	4	45	149	192	69	6	1	466	6	460
PCT	.9	9.7	32.0	41.2	14.8	1.3	.2	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	1.5	.0	.0	.0	.0	1.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	.0	2.2	.0	.0	.0	2.2
5-6	.0	.9	.0	.0	.0	.0	.9
7	.0	.0	.0	1.2	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	3.1	2.2	1.2	.0	.0	6.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	1.2	16.0	2.5	.0	.0	.0	19.8
3-4	.0	4.9	13.6	1.2	.0	.0	19.8
5-6	.0	.3	8.0	.0	.0	.0	8.3
7	.0	.0	5.2	2.5	.0	.0	7.7
8-9	.0	.0	2.5	.0	.0	.0	2.5
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.2	21.3	31.8	3.7	.0	.0	58.0

PERIOD: (OVER-ALL) 1963-1969

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	13.6	3.4	.0	.0	.0	17.0
3-4	.0	1.2	4.0	.0	.0	.0	5.2
5-6	.0	.0	1.9	.0	.0	.0	1.9
7	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	14.8	10.2	.0	.0	.0	25.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.9	.3	.0	.0	.0	5.2
3-4	.0	1.2	.0	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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	6.2	.3	.0	.0	.0	6.5
TOT PCT	.0	14.8	10.2	.0	.0	.0	25.0

W

HGT	1-4	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	2.5	.0	.0	.0	.0	2.5	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	2.5	.0	.0	.0	.0	2.5	100.0
TOT PCT	.0	2.5	.0	.0	.0	.0	2.5	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.4	2.4	.0	.0	.0	.0	4.8	
1-2	1.2	37.3	6.0	.0	.0	.0	44.6	
3-4	.0	7.2	19.3	1.2	.0	.0	27.7	
5-6	.0	1.2	9.6	.0	.0	.0	10.8	
7	.0	.0	6.0	3.6	.0	.0	9.6	
8-9	.0	.0	2.4	.0	.0	.0	2.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
								83
TOT PCT	3.6	48.2	43.4	4.8	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1969

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	32.0	22.3	5.8	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	3
6-7	.0	1.0	6.7	4.9	5.8	1.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	5
8-9	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
10-11	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	15
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	5.8	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	1
TOTAL	9	37	33	11	9	1	2	0	1	0	0	0	0	0	0	0	0	0	0	103	3
PCT	8.7	35.9	32.0	10.7	8.7	1.0	1.9	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1903-1971
(OVER-ALL) 1863-1971

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	.0	.0	.0	91.7
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	2.8	4.4	.0	.0	.0	.0	.0	7.2	.0	.0	.0	.0	2.2	.0	90.6
SE	3.7	3.0	1.2	.0	.0	.0	.0	7.9	.0	.0	1.7	.0	.9	.0	89.4
S	4.3	6.0	.5	.0	.0	.0	.0	10.8	.0	.0	4.0	.0	1.7	.0	83.6
SW	1.4	1.4	5.8	.0	.0	.0	.0	8.7	2.9	2.9	2.9	.0	.0	.0	82.6
W	.0	3.2	0.5	.0	.0	.0	.0	9.7	.0	.0	9.7	.0	.0	.0	80.6
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	96.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.7	.0	.0	.0	.0	.0	.0	7.7	.0	.0	.0	.0	7.7	.0	84.6
TOT PCT	3.3	3.5	1.2	.0	.0	.0	.0	8.1	.2	.2	2.6	.0	1.2	.0	87.7
TOT OBS:	571														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.7	1.5	.7	.0	.0	.0	.0	5.9	.0	.0	.7	.0	.7	.0	92.6
06&09	3.0	4.5	.5	.0	.0	.0	.0	8.1	.0	.0	2.5	.0	1.0	.0	88.4
12&15	4.7	2.8	1.9	.0	.0	.0	.0	9.4	.0	.9	4.7	.0	2.8	.0	82.1
18&21	2.7	4.9	2.7	.0	.0	.0	.0	10.4	.5	.0	2.7	.0	.5	.0	85.7
TOT PCT	3.4	3.7	1.4	.0	.0	.0	.0	8.5	.2	.2	2.6	.0	1.1	.0	87.4
TOT OBS:	621														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.5	1.5	.0	.0	.0	.0		3.1	4.0	.0	1.9	6.1	4.6	.0	2.6	2.3	2.0
NE	1.0	1.4	.0	.0	.0	.0		2.5	4.4	.0	1.3	3.2	4.3	3.0	3.4	.7	2.4
E	1.4	3.6	2.5	.5	.0	.0		8.1	9.6	8.6	6.3	8.5	14.6	5.3	9.0	6.0	4.0
SE	4.1	20.5	18.1	4.0	.0	.0		46.7	11.3	46.6	43.7	54.7	54.4	59.8	38.0	42.1	44.0
S	7.4	10.9	9.7	1.1	.0	.0		24.0	10.8	31.0	31.3	21.0	17.1	10.6	24.4	25.7	26.2
SW	.6	5.2	1.0	.0	.0	.0		6.8	7.2	3.4	5.0	1.4	2.0	9.1	5.3	13.4	14.5
W	1.0	2.0	.1	.0	.0	.0		3.1	5.1	3.4	2.9	1.1	.0	3.0	7.9	3.6	3.2
NW	1.0	1.1	.0	.0	.0	.0		2.2	3.7	3.4	2.9	1.8	.3	.0	4.1	2.3	2.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6							3.6	.0	3.4	4.5	2.2	2.6	9.1	5.3	4.0	1.6
TOT OBS	153	424	287	51	0	0	915		9.6	29	154	139	152	33	133	151	124
TOT PCT	16.7	46.3	31.4	5.6	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.7	.4	.0	.0	.0		3.1	4.0	1.6	5.3	2.1	2.2
NE	2.0	.4	.0	.0	.0		2.5	4.4	1.1	3.8	3.3	1.5
E	3.4	3.4	1.2	.0	.0		8.1	9.6	6.7	11.7	8.3	5.1
SE	11.7	25.4	8.4	1.1	.0		46.7	11.3	44.1	54.6	42.3	42.9
S	7.1	11.1	5.7	.1	.0		24.0	10.8	31.3	19.0	21.7	25.9
SW	3.8	2.7	.3	.0	.0		6.8	7.2	4.8	1.7	6.0	13.9
W	2.5	.6	.0	.0	.0		2.1	5.1	3.0	.5	6.9	3.5
NW	2.1	.1	.0	.0	.0		2.2	3.7	3.0	1.0	3.3	2.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.6						3.6	.0	4.4	2.4	6.0	2.9
TOT OBS	356	404	143	12	0	915		9.6	183	291	166	275
TOT PCT	38.9	44.2	15.6	1.3	.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1963-1971
(OVER-ALL) 1863-1971

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.4	11.5	43.7	34.4	6.0	.0	.0	10.1	100.0	183
06&09	2.4	15.5	45.7	29.6	6.9	.0	.0	9.7	100.0	291
12&15	6.0	15.1	47.6	26.5	4.8	.0	.0	8.8	100.0	166
18&21	2.9	10.5	48.0	34.2	4.4	.0	.0	9.7	100.0	275
TOT	33	120	424	287	51	0	0	9.6		915
PCT	3.6	13.1	46.3	31.4	5.6	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	2.7	.0	.0	.0		.3
E	3.1	2.5	2.9	.0		3.6
SE	16.3	7.8	19.6	5.4		4.2
S	8.3	5.6	6.0	.9		3.5
SW	4.5	.2	1.8	.0		2.2
W	3.6	.0	.0	.0		.2
NW	2.7	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	6.3	.0	.0	.0		.2
TOT OBS	53	18	34	7	112	3.3
TOT PCT	47.3	16.1	30.4	6.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	
E	.0	.0	.0	.7	.9	.0	.0	.0	.0	.7	6.3	
SE	.0	.0	.0	4.7	5.8	4.0	.9	.0	.0	1.1	32.6	
S	.0	.0	.0	.9	3.1	1.3	.0	.0	.0	.0	18.4	
SW	.0	.0	.0	.0	.0	.9	.9	.0	.0	.0	4.7	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	
TOT OBS	0	0	0	7	11	7	2	0	0	2	83	112
TOT PCT	.0	.0	.0	6.3	9.8	6.3	1.8	.0	.0	1.8	74.1	100.0

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 >500YD	= OR >0
= OR >6500	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
= OR >5000	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
= OR >3500	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
= OR >2000	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
= OR >1000	18.8	19.6	19.6	19.6	19.6	19.6	19.6	19.6
= OR >600	23.2	25.0	25.0	25.9	25.9	25.9	25.9	25.9
= OR >300	23.2	25.0	25.0	25.9	25.9	25.9	25.9	25.9
= OR >150	23.2	25.0	25.0	25.9	25.9	25.9	25.9	25.9
= OR > 0	23.2	25.0	25.0	25.9	25.9	25.9	25.9	25.9
TOTAL	26	28	28	29	29	29	29	29

TOTAL NUMBER OF OBS: 112

PCT FREQ NH <5/8: 74.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
23.3	20.7	11.2	8.6	9.5	6.9	6.0	10.3	3.4	.0	116

PERIOD: (PRIMARY) 1903-1971
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.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	
	NO PCP	.2	.0	.0	.8	3.6	.1	.3	.0	.0	.0	4.9	
	TOT %	.2	.0	.0	.8	3.6	.1	.3	.0	.0	.0	4.9	
1<2	PCP	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.4	.2	.0	.0	.0	.0	.2	.7	
	TOT %	.0	.0	.0	.4	.4	.1	.1	.0	.0	.2	1.1	
2<5	PCP	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.2	.7	.1	.0	.0	.0	.0	.0	1.1	
	TOT %	.0	.0	.3	1.2	.1	.0	.0	.0	.0	.0	1.6	
5<10	PCP	.0	.0	.4	2.8	2.3	.4	.2	.0	.0	.2	6.3	
	NO PCP	2.6	1.5	3.8	24.1	12.1	2.5	1.1	1.8	.0	.4	49.9	
	TOT %	2.6	1.5	4.2	26.9	14.4	3.0	1.3	1.8	.0	.5	56.2	
10+	PCP	.0	.0	.1	.4	.4	.0	.0	.0	.0	.0	.9	
	NO PCP	.4	.9	3.3	16.7	7.5	2.9	1.1	1.1	.0	1.6	35.4	
	TOT %	.4	.9	3.5	17.1	7.9	2.9	1.1	1.1	.0	1.6	36.3	
	TOT OBS												571
	TOT PCT	3.2	2.4	7.9	46.4	26.4	6.0	2.7	2.8	.0	2.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.1	.0	.0	.0	.0		.1	
	11-21	.0	.0	.1	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.3	
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.3	
	4-10	.0	.0	.0	.5	.3	.1	.1	.0	.0		.9	
	11-21	.0	.0	.0	.3	1.8	.0	.0	.0	.0		2.1	
	22+	.0	.0	.0	.0	.5	.0	.0	.0	.0		.5	
	TOT %	.1	.0	.0	.7	2.7	.1	.2	.0	.0	.0	3.8	
1<2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.3	
	4-10	.0	.0	.0	.1	.0	.1	.1	.0	.0		.3	
	11-21	.0	.0	.0	.4	.1	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	TOT %	.0	.0	.0	.8	.3	.1	.1	.0	.0	.1	1.3	
2<5	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.8	.2	.0	.0	.0	.0		.9	
	11-21	.0	.0	.1	.5	.1	.0	.0	.0	.0		.8	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.0	.0	.2	1.5	.3	.0	.0	.0	.0	.0	2.0	
5<10	0-3	.8	.3	.9	1.6	1.0	.3	.3	.6	.0	.4	6.2	
	4-10	1.2	.8	1.4	9.1	5.1	2.6	.7	.9	.0		21.7	
	11-21	.0	.0	.8	9.3	5.6	.1	.0	.0	.0		15.7	
	22+	.0	.0	.4	3.8	.6	.0	.0	.0	.0		4.7	
	TOT %	2.0	1.1	3.5	23.7	12.2	3.0	1.0	1.4	.0	.4	48.4	
10+	0-3	.2	.6	.5	2.5	1.2	.3	.3	.5	.0	2.5	8.6	
	4-10	.6	.6	1.5	10.3	4.7	2.3	1.0	.4	.0		21.5	
	11-21	.0	.0	1.4	8.3	2.7	.6	.1	.0	.0		13.2	
	22+	.0	.0	.1	.7	.2	.0	.0	.0	.0		1.1	
	TOT %	.8	1.2	3.5	21.9	8.8	3.3	1.4	.9	.0	2.5	44.3	
	TOT OBS												759
	TOT PCT	2.9	2.3	7.2	48.8	24.3	6.5	2.6	2.3	.0	3.0	100.0	

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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
00&03	.0	.0	.0	3.8	7.7	3.8	.0	.0	.0	.0	15.4	84.6	26
06&09	.0	.0	.0	7.4	7.4	3.7	3.7	.0	.0	.0	22.2	77.8	27
12&15	.0	.0	.0	3.3	13.3	6.7	3.3	.0	.0	6.7	33.3	66.7	30
18&21	.0	.0	.0	9.7	9.7	9.7	.0	.0	.0	.0	29.0	71.0	31
TOT	0	0	0	7	11	7	2	0	0	2	29	85	114
PCT	.0	.0	.0	6.1	9.6	6.1	1.8	.0	.0	1.8	25.4	74.6	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
00&03	.7	2.6	1.3	.7	41.8	52.9	153
06&09	.0	4.2	1.5	1.9	54.2	38.3	264
12&15	.0	3.4	1.4	3.4	43.2	48.6	146
18&21	.4	3.6	.8	1.6	52.8	40.8	250
TOT	2	29	10	15	402	355	813
PCT	.2	3.6	1.2	1.8	49.4	43.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	3.8	11.5	84.6	26
06&09	.0	.0	7.4	14.8	77.8	27
12&15	.0	.0	3.3	30.0	66.7	30
18&21	.0	.0	10.3	20.7	69.0	29
TOT	0	0	7	22	83	112
PCT	.0	.0	6.3	19.6	74.1	100.0

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
80/84	.0	.0	.0	.3	.3	.9	.3	.0	6	1.8
75/79	.0	.0	.6	.6	1.8	6.8	5.3	3.6	63	18.7
70/74	.0	.0	.6	1.5	6.2	11.9	18.7	11.0	168	49.9
65/69	.0	.0	1.2	2.7	2.7	6.5	8.6	5.3	91	27.0
60/64	.0	.0	.0	.3	.6	.3	.9	.6	9	2.7
TOTAL	0	0	8	18	39	89	114	69	337	100.0
PCT	.0	.0	2.4	5.3	11.6	26.4	33.8	20.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.8	1.0	.0	.0	.0	.0	.0	.0
.9	.6	3.2	8.9	3.6	.3	.0	.6	.0	.6
1.0	1.9	3.4	24.7	10.1	4.1	1.3	1.2	.0	2.1
.0	.3	.3	11.5	9.4	3.0	1.5	.4	.0	.6
.0	.0	.0	1.2	.6	.3	.3	.3	.0	.0
1.9	2.8	7.7	47.3	23.7	7.6	3.1	2.5	.0	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	88	84	80	73	66	63	63	72.8	186
06&09	84	81	77	72	66	61	58	72.1	302
12&15	82	78	75	70	64	60	58	70.0	171
18&21	83	78	76	70	63	60	59	70.0	281
TOT	88	81	77	71	65	60	58	71.2	940

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	6.9	12.5	37.5	29.2	13.9	77	72
06&09	.0	11.9	12.8	22.0	32.1	21.1	78	109
12&15	.0	7.6	12.1	31.8	31.8	16.7	78	66
18&21	.0	2.8	8.3	18.5	40.7	29.6	82	108
TOT	0	26	40	92	121	76	79	355

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.6	.2	4	.0	.7
7/8	.0	.0	.0	.0	.4	.2	.0	3	.0	.6
6	.0	.0	.0	1.5	.7	.0	.0	12	.0	2.2
5	.0	.0	.7	.7	.6	.0	.0	11	.0	2.0
4	.0	.0	1.1	1.9	1.3	.4	.0	25	.7	3.9
3	.0	.0	.7	2.4	1.7	.0	.0	26	.4	4.5
2	.0	.2	3.5	4.6	1.3	.6	.0	55	.4	9.9
1	.0	.4	.9	6.3	1.1	.2	.0	48	.2	8.7
0	.0	1.7	5.2	8.6	.9	.2	.0	89	.7	15.8
-1	.0	.7	6.5	5.2	1.1	.0	.0	73	.2	13.4
-2	.0	1.7	8.4	3.7	.2	.2	.0	76	.4	13.8
-3	.0	1.9	3.9	1.3	.0	.0	.0	38	.0	7.1
-4	.2	3.0	2.8	.7	.0	.0	.0	36	.0	6.7
-5	.2	1.3	1.3	.2	.0	.0	.0	16	.0	3.0
-6	.2	1.9	.4	.0	.0	.0	.0	13	.0	2.4
-7/-8	.2	1.1	.6	.0	.0	.0	.0	10	.0	1.9
-9/-10	.0	.2	.2	.0	.0	.0	.0	2	.0	.4
-11/-13	.0	.2	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	4	76	195	200	50	12	1	538	16	522
PCT	.7	14.1	36.2	37.2	9.3	2.2	.2	100.0	3.0	97.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

	N							NE						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	.0	.0	.0	2.5
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.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
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	.0	.0	.0	2.5

	E							SE						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3	.0	2.8	.0	.0	.0	.0	2.8
1-2	.0	.0	.0	.0	.0	.0	.0	1.3	6.6	5.4	.0	.0	.0	13.3
3-4	.0	.0	1.3	.0	.0	.0	1.3	.0	2.5	19.0	1.3	.0	.0	22.8
5-6	.0	.0	2.8	.0	.0	.0	2.8	.0	.3	6.0	.0	.0	.0	6.3
7	.0	.0	1.9	.0	.0	.0	1.9	.0	.0	2.2	1.3	.0	.0	3.5
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
TOT PCT	.0	1.3	6.0	.0	.0	.0	7.3	1.3	12.3	32.6	2.5	.0	.0	48.7

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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
1-2	1.3	3.5	3.5	.0	.0	.0	8.2	.0	6.3	.0	.0	.0	.0	6.3
3-4	.0	1.3	6.0	.0	.0	.0	7.3	.0	.0	1.6	.0	.0	.0	1.6
5-6	.0	.9	.0	1.3	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.2	.0	.0	.0	2.2	.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
TOT PCT	1.3	6.6	11.7	1.3	.0	.0	20.9	.0	6.3	1.6	.0	.0	.0	7.9

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	1.3	1.3	.0	.0	.0	.0	2.5	
1-2	.0	2.5	1.3	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.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	
TOT PCT	.0	2.5	1.3	.0	.0	.0	3.8	1.3	1.3	.0	.0	.0	.0	2.5	93.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.6	8.9	.0	.0	.0	.0	16.5	
1-2	2.5	19.0	10.1	.0	.0	.0	31.6	
3-4	.0	3.8	27.8	1.3	.0	.0	32.9	
5-6	.0	1.3	8.9	1.3	.0	.0	11.4	
7	.0	.0	6.3	1.3	.0	.0	7.6	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	79
TOT PCT	10.1	32.9	53.2	3.8	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1971

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	9.7	25.2	19.4	10.7	1.9	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	3
6-7	.0	.0	3.9	7.8	5.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	5
8-9	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
10-11	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
12-13	.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	
INDET	7.8	.0	2.9	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	1
TOTAL	18	26	27	21	10	0	1	0	0	0	0	0	0	0	0	0	0	0	0	103	3
PCT	17.5	25.2	26.2	20.4	9.7	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1898-1969
(OVER-ALL) 1863-1969

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	.0	96.1
NE	4.3	.0	4.3	.0	.0	.0	.0	8.6	1.1	.0	.0	.0	.0	.0	90.3
E	.0	3.3	.0	.0	.0	.0	.0	3.3	2.4	.0	2.9	.0	.0	.0	91.4
SE	2.0	15.1	.2	.0	.0	.0	.0	17.3	.6	.0	3.1	.0	.7	.0	78.3
S	.9	6.6	1.5	.0	.0	.0	.0	9.0	1.1	.0	4.9	.0	.0	.0	85.1
SW	2.7	2.7	1.4	.0	.0	.0	.0	6.8	.0	.0	4.1	.0	2.7	.0	86.5
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	6.5	.0	.0	.0	.0	.0	.0	6.5	.0	.0	.0	.0	.0	.0	93.5
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	.0	.0	100.0
TOT PCT	1.6	9.9	.6	.0	.0	.0	.0	12.0	.9	.0	3.2	.0	.6	.0	83.3
TOT OBS:	822														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00&03	.6	7.6	1.2	.0	.0	.0	.0	9.4	1.2	.0	.6	.0	1.8	.0	87.1
06&09	1.8	10.2	.0	.0	.0	.0	.0	12.0	.7	.0	4.0	.0	.4	.0	82.9
12&15	3.4	6.7	.7	.0	.0	.0	.0	10.7	.0	.0	2.0	.0	.0	.0	87.2
18&21	2.2	11.7	.7	.0	.0	.0	.0	14.6	1.1	.0	5.8	.0	.4	.0	78.1
TOT PCT	2.0	9.6	.6	.0	.0	.0	.0	12.1	.8	.0	3.6	.0	.6	.0	82.9
TOT OBS:	868														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	1.6	.2	.0	.0	.0		3.0	4.6	.0	5.6	3.3	4.4	2.9	2.4	2.0	.9
NE	1.3	2.2	.1	*	.0	.0		3.6	4.8	4.5	3.5	3.3	3.5	3.6	3.1	5.1	2.7
E	2.5	7.4	2.6	.1	.0	.0		12.6	7.7	16.1	10.0	15.8	12.1	19.3	12.5	12.3	11.2
SE	5.5	28.4	14.7	1.2	.0	.0		49.8	9.2	34.8	46.8	58.4	59.4	56.4	51.7	42.6	41.5
S	3.8	11.1	4.5	1.0	.0	.0		20.4	8.6	29.5	25.7	15.7	15.4	12.1	17.0	22.9	25.0
SW	1.0	3.5	.4	*	.0	.0		4.9	6.4	11.6	3.9	1.8	.6	.0	5.2	6.6	11.2
W	.3	1.2	.1	.0	.0	.0		1.6	5.7	.0	.6	.0	.6	.0	2.4	3.4	3.6
NW	.6	1.0	.0	.2	.0	.0		1.8	6.4	3.6	2.8	.0	2.3	.0	2.1	1.7	2.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2							2.2	.0	.0	1.1	1.8	1.7	5.7	3.5	3.4	1.8
TOT OBS	198	602	241	27	0	0	1068		8.2	28	178	169	172	33	144	175	167
TOT PCT	18.5	56.4	22.6	2.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.6	.4	.0	.0	.0		3.0	4.6	4.9	3.8	2.5	1.5
NE	2.9	.7	*	.0	.0		3.6	4.8	3.6	3.4	3.2	3.9
E	6.0	5.6	1.0	.0	.0		12.6	7.7	10.8	13.9	13.8	11.8
SE	17.7	26.5	5.3	.3	.0		49.8	9.2	45.1	58.9	52.7	42.0
S	9.2	8.9	2.0	.2	.0		20.4	8.6	26.2	15.5	16.1	23.9
SW	2.9	1.9	*	.0	.0		4.9	6.4	5.0	1.2	4.2	8.8
W	1.2	.5	.0	.0	.0		1.6	5.7	.5	.3	2.0	3.5
NW	1.6	.0	.1	.1	.0		1.8	6.4	2.9	1.2	1.7	1.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.2						2.2	.0	1.0	1.8	3.9	2.6
TOT OBS	496	475	90	7	0	1068		8.2	206	341	179	342
TOT PCT	46.4	44.5	8.4	.7	.0		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1898-1969
(OVER-ALL) 1863-1969

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.0	14.6	56.3	24.8	3.4	.0	.0	8.9	100.0	206
06&09	1.8	17.6	52.5	25.8	2.3	.0	.0	8.4	100.0	341
12&15	3.9	16.2	58.1	20.1	1.7	.0	.0	7.6	100.0	179
18&21	2.6	16.1	59.4	19.3	2.6	.0	.0	7.8	100.0	342
TOT	24	174	602	241	27	0	0	8.2		1068
PCT	2.2	16.3	56.4	22.6	2.5	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.7	.0	.0	.0		1.0
NE	.4	1.9	.0	.2		3.4
E	7.2	4.0	5.3	3.0		3.9
SE	18.6	11.4	10.6	3.2		3.2
S	11.4	1.3	7.6	3.0		3.8
SW	2.1	1.7	1.1	.0		3.1
W	.0	.8	.0	.0		4.0
NW	.8	.0	.0	.0		1.0
VAR	.0	.0	.0	.0		.0
CALM	1.7	.0	.8	.0		3.3
TOT OBS	52	25	30	11	118	3.4
TOT PCT	44.1	21.2	25.4	9.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
NE	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	2.3	
E	.0	.0	.6	.8	3.2	.0	.6	.6	.0	.0	13.6	
SE	.0	.0	2.3	1.1	2.3	3.4	.4	.2	.0	.2	33.9	
S	.0	.0	1.3	3.0	2.8	.0	.6	.0	.0	.6	15.0	
SW	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	4.7	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	1.7	
TOT OBS	0	0	5	6	10	5	2	1	0	1	88	118
TOT PCT	.0	.0	4.2	5.1	8.5	4.2	1.7	.8	.0	.8	74.6	100.0

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 >50YD	= OR >0
= OR >6500	.8	.8	.8	.8	.8	.8	.8	.8
= OR >5000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
= OR >3500	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
= OR >2000	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
= OR >1000	15.1	16.0	16.0	16.0	16.0	16.0	16.0	16.0
= OR >600	18.5	21.0	21.0	21.0	21.0	21.0	21.0	21.0
= OR >300	21.8	25.2	25.2	25.2	25.2	25.2	25.2	25.2
= OR >150	21.8	25.2	25.2	25.2	25.2	25.2	25.2	25.2
= OR > 0	21.8	25.2	25.2	25.2	25.2	25.2	25.2	25.2
TOTAL	26	30	30	30	30	30	30	30

TOTAL NUMBER OF OBS: 119

PCT FREQ NH <5/8: 74.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
14.3	25.4	11.9	15.9	7.9	4.8	7.9	6.3	5.6	.0	126

PERIOD: (PRIMARY) 1898-1969
(OVER-ALL) 1863-1969

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.2	2.0	1.3	.2	.0	.0	.0	.0	3.8	
	TOT %	.0	.0	.2	2.0	1.5	.2	.0	.0	.0	.0	3.9	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.2	.2	.1	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.0	.2	.2	.1	.0	.0	.0	.0	.0	.5	
5<10	PCP	.0	.1	.3	9.2	1.4	.3	.0	.0	.0	.0	11.3	
	NO PCP	1.6	1.6	7.8	29.4	10.6	2.3	.9	1.3	.0	.4	55.8	
	TOT %	1.6	1.7	8.1	38.5	12.0	2.6	.9	1.3	.0	.4	67.2	
10+	PCP	.0	.1	.1	.0	.2	.0	.0	.1	.0	.0	.6	
	NO PCP	1.5	1.0	4.2	11.9	6.1	1.7	.2	.5	.0	.6	27.6	
	TOT %	1.5	1.1	4.3	11.9	6.4	1.7	.2	.6	.0	.6	28.2	
	TOT OBS												822
	TOT PCT	3.1	2.8	12.8	52.9	20.0	4.5	1.1	1.9	.0	1.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.1	.3	.4	.2	.0	.0	.0	.0	1.0	
	4-10	.0	.0	.1	1.1	.2	.0	.0	.0	.0		1.4	
	11-21	.0	.0	.1	.4	.5	.0	.0	.0	.0		1.0	
	22+	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	TOT %	.0	.0	.3	1.8	1.3	.2	.0	.0	.0	.0	3.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.1	.1	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.1	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	TOT %	.0	.0	.1	.2	.1	.0	.0	.0	.0	.0	.4	
5<10	0-3	.6	.5	2.0	5.0	2.5	.7	.1	.3	.0	.3	12.1	
	4-10	.8	1.0	4.0	19.7	5.6	1.5	.5	.9	.0		34.1	
	11-21	.0	.1	1.1	9.8	2.0	.2	.1	.0	.0		13.3	
	22+	.0	*	.1	.4	.7	.0	.0	.0	.0		1.2	
	TOT %	1.5	1.6	7.2	34.8	10.9	2.4	.8	1.1	.0	.3	60.7	
10+	0-3	.5	.7	.8	1.0	1.0	.2	.3	.4	.0	1.3	6.1	
	4-10	.8	.9	2.7	8.9	4.0	1.7	.4	.2	.0		19.6	
	11-21	.2	.0	1.1	5.2	2.1	.2	.0	.0	.0		8.8	
	22+	.0	.0	.1	.2	.0	.0	.0	.2	.0		.4	
	TOT %	1.5	1.6	4.6	15.2	7.1	2.2	.7	.9	.0	1.3	35.0	
	TOT OBS												929
	TOT PCT	3.0	3.2	12.4	52.3	19.4	4.7	1.5	2.0	.0	1.6	100.0	

AUGUST

PERIOD: (PRIMARY) 1898-1969
(OVER-ALL) 1863-1969

AREA 0002 CAIRNS
16.8S 145.9E

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
00&03	.0	.0	3.6	7.1	10.7	10.7	.0	.0	.0	3.6	35.7	64.3	28
06&09	.0	.0	8.6	.0	5.7	2.9	2.9	2.9	.0	.0	22.9	77.1	35
12&15	.0	.0	.0	5.9	5.9	2.9	2.9	.0	.0	.0	17.6	82.4	34
18&21	.0	.0	3.6	7.1	10.7	.0	.0	.0	.0	.0	21.4	78.6	28
TOT	0	0	5	6	10	5	2	1	0	1	30	95	125
PCT	.0	.0	4.0	4.8	8.0	4.0	1.6	.8	.0	.8	24.0	76.0	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
00&03	.0	2.2	.6	.6	57.5	39.2	181
06&09	.0	4.5	.3	.6	64.4	30.1	312
12&15	.0	2.9	.0	.0	57.6	39.5	172
18&21	.0	4.8	.3	.3	63.9	30.6	310
TOT	0	38	3	4	602	228	975
PCT	.0	3.9	.3	.4	61.7	33.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.7	11.1	25.9	63.0	27
06&09	.0	9.1	9.1	15.2	75.8	33
12&15	.0	.0	6.3	12.5	81.3	32
18&21	.0	3.7	11.1	11.1	77.8	27
TOT	0	5	11	19	89	119
PCT	.0	4.2	9.2	16.0	74.8	100.0

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
85/89	.0	.0	.0	.0	.0	.0	.3	.0	1	.3
80/84	.0	.0	.0	.0	1.6	2.2	1.0	.0	15	4.8
75/79	.0	.0	.3	1.3	4.5	14.0	5.7	3.5	92	29.3
70/74	.0	.0	.3	2.5	7.0	13.4	21.7	6.4	161	51.3
65/69	.0	.0	1.6	.0	1.6	1.3	5.4	3.5	42	13.4
60/64	.0	.0	.0	.0	.0	.0	.6	.3	3	1.0
TOTAL	0	0	7	12	46	97	109	43	314	100.0
PCT	.0	.0	2.2	3.8	14.6	30.9	34.7	13.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.3	.0	.0	.0	.0	.0	.0
.6	.6	.6	1.0	.9	.3	.0	.6	.0	.0
2.2	1.4	6.6	13.1	4.4	.6	.0	1.0	.0	.0
1.0	.7	8.2	27.7	9.1	1.9	.5	1.6	.0	.6
.6	1.3	1.2	4.0	2.8	1.9	.5	.8	.0	.3
.0	.0	.0	.5	.5	.0	.0	.0	.0	.0
4.5	4.1	16.6	46.6	17.6	4.8	1.0	4.0	.0	1.0

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	83	80	74	69	67	61	74.4	207
06&09	82	81	79	74	68	64	64	73.6	344
12&15	82	79	75	72	67	64	62	71.7	192
18&21	80	78	76	71	66	63	60	70.9	361
TOT	85	81	78	73	67	64	60	72.6	1104

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	3.9	22.1	37.7	26.0	10.4	76	77
06&09	.0	4.4	16.5	37.4	33.0	8.8	77	91
12&15	.0	7.4	11.1	22.2	38.9	20.4	79	54
18&21	.0	8.3	8.3	22.9	43.8	16.7	79	96
TOT	0	19	46	97	113	43	78	318

PERIOD: (PRIMARY) 1898-1969
(OVER-ALL) 1863-1969

AREA 0002 CAIRNS
16.85 145.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
9/10	.0	.0	.0	.1	.3	.0	.1	4	.0	.5
7/8	.0	.0	.1	.1	.4	.1	.0	6	.0	.8
6	.0	.0	.0	.1	.5	.4	.0	8	.0	1.1
5	.0	.0	.1	.4	.8	.0	.0	10	.1	1.2
4	.0	.0	.5	1.0	.8	.3	.0	19	.0	2.6
3	.0	.1	.1	3.3	1.5	.0	.0	37	.0	5.1
2	.0	.3	1.4	4.1	2.9	.1	.0	64	.0	8.8
1	.0	.1	2.3	8.9	2.2	.0	.0	99	.1	13.4
0	.0	.4	7.4	12.2	1.5	.1	.0	158	1.0	20.6
-1	.0	.4	7.3	8.9	.0	.0	.0	121	.8	15.8
-2	.0	1.6	6.4	2.2	.0	.0	.0	75	.5	9.7
-3	.1	2.1	4.9	1.1	.0	.0	.0	60	.7	7.5
-4	.0	1.6	2.7	.8	.0	.0	.0	38	.4	4.8
-5	.3	1.0	.5	.0	.0	.0	.0	13	.1	1.6
-6	.3	.5	.1	.0	.0	.0	.0	7	.0	1.0
-7/-8	.4	.4	.3	.0	.0	.0	.0	8	.1	1.0
-9/-10	.0	.3	.0	.0	.0	.0	.0	2	.0	.3
TOTAL	8		251		80		1		29	701
		65		316		9		730		
PCT	1.1	8.9	34.4	43.3	11.0	1.2	.1	100.0	4.0	96.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	2.4	.0	.0	.0	.0	2.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	1.2	.3	.0	.0	.0	.0	1.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.2	.9	.0	.0	.0	.0	2.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.0	.0	.0	.0	1.8
1-2	1.2	10.9	1.2	.0	.0	.0	13.2
3-4	.0	.9	2.4	.0	.0	.0	3.2
5-6	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.2	13.5	4.4	.0	.0	.0	19.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	4.4	.0	.0	.0	.0	5.6
1-2	.0	11.5	5.9	.0	.0	.0	17.4
3-4	.0	4.4	7.1	.0	.0	.0	11.5
5-6	.0	4.1	6.8	.0	.0	.0	10.9
7	.0	.0	.3	1.2	.0	.0	1.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.2	24.4	20.0	1.2	.0	.0	46.8

PERIOD: (OVER-ALL) 1963-1969

AUGUST

TABLE 18 (CONT)

AREA 0002 CAIRNS
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	2.6	.0	.0	.0	.0	3.5	.3	1.2	.0	.0	.0	.0	1.5
1-2	.0	2.9	3.5	.0	.0	.0	6.5	.0	.3	.0	.0	.0	.0	.3
3-4	.0	4.1	.9	.0	.0	.0	5.0	.0	.0	.3	.0	.0	.0	.3
5-6	.0	1.8	7.6	.0	.0	.0	9.4	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.9	.0	.0	.0	.9	.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
TOT PCT	.9	11.5	12.9	.0	.0	.0	25.3	.3	1.5	.3	.0	.0	.0	2.1

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.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	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.7	11.8	.0	.0	.0	.0	16.5	
1-2	2.4	27.1	10.6	.0	.0	.0	40.0	
3-4	.0	9.4	10.6	.0	.0	.0	20.0	
5-6	.0	5.9	15.3	.0	.0	.0	21.2	
7	.0	.0	1.2	1.2	.0	.0	2.4	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
								85
TOT PCT	7.1	54.1	37.6	1.2	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1969

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	10.6	30.1	15.9	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	2
6-7	.0	.9	7.1	15.0	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	5
8-9	.0	.0	2.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.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	
INDET	8.0	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	0
TOTAL	21	36	30	23	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	113	3
PCT	18.6	31.9	26.5	20.4	1.8	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1882-1969

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	3.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0	1.1	.0		95.9
NE	1.3	1.3	.0	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.3	.0		97.0
E	.7	4.7	.7	.0	.0	.0	.0	6.1	.7	.0	3.1	.0	2.2	.0		88.0
SE	2.1	15.8	.4	.0	.0	.0	.0	18.3	.1	.0	3.3	.0	.6	.0		77.6
S	4.8	18.0	.7	.0	.0	.0	.0	23.6	.2	.4	2.9	.0	.3	.0		73.0
SW	6.7	5.0	.8	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0		87.5
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
NW	4.6	4.6	.0	.0	.0	.0	.0	9.2	.0	.0	4.6	.0	9.2	.0		77.0
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	7.7	.0	.0	.0	.0		92.3
TOT PCT	2.4	12.1	.5	.0	.0	.0	.0	15.1	.2	.2	2.6	.0	.9	.0		81.1
TOT OBS:	1063															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.3	12.9	.0	.0	.0	.0	.0	14.2	.0	.0	3.0	.0	1.3	.0		81.5
06&09	2.7	8.0	.7	.0	.0	.0	.0	11.4	.2	.2	2.7	.0	.5	.0		85.2
12&15	2.2	11.2	.4	.0	.0	.0	.0	13.8	.4	.0	2.2	.0	.9	.0		82.6
18&21	3.1	13.0	.2	.0	.0	.0	.0	16.3	.0	.5	2.1	.0	.7	.0		80.6
TOT PCT	2.5	11.1	.4	.0	.0	.0	.0	13.9	.2	.2	2.5	.0	.8	.0		82.6
TOT OBS:	1291															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.8	4.2	.2	.1	.0	.0		6.3	5.4	6.5	10.9	9.1	5.3	16.4	4.0	3.5	2.0
NE	2.3	4.4	.3	.0	.0	.0		7.0	5.0	1.9	7.4	8.6	10.6	4.3	9.5	5.7	1.7
E	3.3	9.9	2.3	.1	.0	.0		15.7	6.7	11.1	14.0	23.0	15.8	14.7	17.5	12.7	11.5
SE	6.7	26.4	8.7	.6	.0	.0		42.4	7.8	50.9	39.6	43.4	44.0	45.7	41.4	41.5	42.9
S	6.5	10.6	2.8	.9	.0	.0		20.8	6.8	22.2	20.4	12.8	18.1	10.3	20.2	24.9	30.6
SW	1.2	1.1	.4	.0	.0	.0		2.7	5.4	3.7	2.4	.4	1.0	.9	1.8	5.5	5.0
W	.4	.5	.0	.0	.0	.0		.9	4.0	.0	.7	.2	.3	.0	.3	1.2	3.1
NW	.9	1.1	.2	.0	.0	.0		2.1	5.0	.0	2.4	.7	2.0	.9	4.0	2.5	2.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0	3.7	2.2	1.8	3.0	6.9	1.2	2.5	1.0
TOT OBS	324	743	190	22	0	0	1279		6.8	27	229	227	199	29	163	201	204
TOT PCT	25.3	58.1	14.9	1.7	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.9	1.3	.2	.0	.0		6.3	5.4	10.4	7.3	5.9	2.7
NE	5.4	1.6	.0	.0	.0		7.0	5.0	6.8	9.5	8.7	3.7
E	9.5	5.7	.4	.0	.0		15.7	6.7	13.7	19.7	17.1	12.1
SE	21.0	18.9	2.5	*	.0		42.4	7.8	40.8	43.7	42.1	42.2
S	13.5	5.8	1.5	*	.0		20.8	6.8	20.6	15.3	18.8	27.8
SW	1.9	.6	.1	.0	.0		2.7	5.4	2.5	.7	1.7	5.2
W	.8	.1	.0	.0	.0		.9	4.0	.6	.2	.3	2.2
NW	1.7	.3	.1	.0	.0		2.1	5.0	2.1	1.3	3.5	2.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	2.3	2.3	2.1	1.7
TOT OBS	779	439	60	1	0	1279		6.8	256	426	192	405
TOT PCT	60.9	34.3	4.7	.1	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1897-1969
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.3	20.7	56.6	18.4	2.0	.0	.0	7.1	100.0	256
06&09	2.3	20.7	62.0	13.4	1.6	.0	.0	6.8	100.0	426
12&15	2.1	22.4	60.4	12.0	3.1	.0	.0	6.9	100.0	192
18&21	1.7	27.9	53.8	15.6	1.0	.0	.0	6.4	100.0	405
TOT	27	297	743	190	22	0	0	6.8		1279
PCT	2.1	23.2	58.1	14.9	1.7	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.0	.0	2.9	.0		2.5
NE	1.9	1.2	1.0	.0		2.9
E	8.7	3.4	2.9	1.9		2.9
SE	25.5	10.3	10.3	1.9		2.9
S	6.7	2.4	4.8	1.0		3.3
SW	1.0	.0	.2	.0		2.0
W	.0	.0	.0	.0		.0
NW	.2	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	5.8	1.0	.0	.0		.8
TOT OBS	57	19	23	5	104	2.7
TOT PCT	54.8	18.3	22.1	4.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	6.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	
E	.0	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	14.9	
SE	.0	.0	.0	1.7	3.1	.0	.0	.0	.0	.0	43.3	
S	.0	.0	.0	1.2	2.4	.0	.0	.0	.0	.0	11.3	
SW	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	
TOT OBS	0	0	0	5	7	1	0	0	0	0	91	104
TOT PCT	.0	.0	.0	4.8	6.7	1.0	.0	.0	.0	.0	87.5	100.0

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 >500YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >2000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >1000	6.7	7.6	7.6	7.6	7.6	7.6	7.6	7.6
= OR >600	9.5	12.4	12.4	12.4	12.4	12.4	12.4	12.4
= OR >300	9.5	12.4	12.4	12.4	12.4	12.4	12.4	12.4
= OR >150	9.5	12.4	12.4	12.4	12.4	12.4	12.4	12.4
= OR > 0	9.5	12.4	12.4	12.4	12.4	12.4	12.4	12.4
TOTAL	10	13	13	13	13	13	13	13

TOTAL NUMBER OF OBS: 105 PCT FREQ NH <5/8: 87.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
20.2	26.6	16.5	13.8	9.2	4.6	5.5	.9	2.8	.0	109

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.4	1.4	.6	.0	.0	.1	.0	.0	2.5	
	TOT %	.0	.0	.4	1.7	.9	.0	.0	.1	.0	.0	3.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.2	*	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.2	*	.0	.0	.0	.0	.0	.0	.3	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.3	
5<10	PCP	.2	.2	.8	7.6	4.8	.3	.0	.2	.0	.0	14.2	
	NO PCP	5.1	5.9	9.5	26.0	13.9	1.7	.4	1.4	.0	.3	64.3	
	TOT %	5.3	6.1	10.4	33.6	18.7	2.1	.4	1.6	.0	.3	78.5	
10+	PCP	.0	.0	.0	*	.1	*	.0	.0	.0	.0	.2	
	NO PCP	1.0	.9	2.8	7.9	2.7	.7	.3	.4	.0	.9	17.6	
	TOT %	1.0	.9	2.8	7.9	2.8	.8	.3	.4	.0	.9	17.8	
	TOT OBS												1063
	TOT PCT	6.3	7.0	13.9	43.5	22.6	2.8	.7	2.0	.0	1.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.2	.1	.2	.0	.0	.1	.0	.0	.6	
	4-10	.0	.0	.1	1.2	.4	.0	.0	.0	.0		1.7	
	11-21	.0	.0	.1	.2	.2	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0		.1	
	TOT %	.0	.0	.4	1.6	.9	.0	.0	.1	.0	.0	2.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	.1	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.2	.1	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	*	.1	.0	.0	.0	.0		.1	
	TOT %	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.4	
5<10	0-3	1.6	2.3	2.7	6.2	6.3	1.0	*	.7	.0	.3	21.0	
	4-10	3.2	3.5	6.1	20.4	8.8	.8	.3	.7	.0		43.7	
	11-21	.2	.2	.8	4.0	1.4	.2	.0	.1	.0		6.8	
	22+	.0	.0	.0	.6	.9	.0	.0	.0	.0		1.5	
	TOT %	4.9	5.9	9.5	31.1	17.3	2.0	.4	1.5	.0	.3	73.0	
10+	0-3	.2	.1	.4	.5	.3	.3	.3	.1	.0	1.4	3.7	
	4-10	1.1	.9	2.8	5.1	1.5	.3	.2	.5	.0		12.5	
	11-21	.1	*	1.2	4.3	1.2	.1	.0	.1	.0		7.0	
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	1.5	1.1	4.4	10.0	3.0	.8	.5	.7	.0	1.4	23.3	
	TOT OBS												1169
	TOT PCT	6.4	7.0	14.6	43.0	21.4	2.8	.9	2.2	.0	1.7	100.0	

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PERIOD: (PRIMARY) 1897-1969
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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
00&03	.0	.0	.0	.0	7.7	.0	.0	.0	.0	.0	7.7	92.3	26
06&09	.0	.0	.0	6.7	6.7	.0	.0	.0	.0	.0	13.3	86.7	30
12&15	.0	.0	.0	11.1	7.4	.0	.0	.0	.0	.0	18.5	81.5	27
18&21	.0	.0	.0	.0	4.2	4.2	.0	.0	.0	.0	8.3	91.7	24
TOT	0	0	0	5	7	1	0	0	0	0	13	94	107
PCT	.0	.0	.0	4.7	6.5	.9	.0	.0	.0	.0	12.1	87.9	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
00&03	.0	3.3	.4	.4	69.0	26.9	245
06&09	.0	2.9	.0	.4	78.3	18.4	451
12&15	.4	2.4	.4	.0	75.1	21.6	245
18&21	.0	2.4	.4	.4	80.0	16.7	456
TOT	1	38	4	5	1071	278	1397
PCT	.1	2.7	.3	.4	76.7	19.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	.0	7.7	92.3	26
06&09	.0	.0	6.9	6.9	86.2	29
12&15	.0	.0	11.1	7.4	81.5	27
18&21	.0	.0	.0	8.7	91.3	23
TOT	0	0	5	8	92	105
PCT	.0	.0	4.8	7.6	87.6	100.0

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
80/84	.0	.0	.0	.0	1.3	3.0	1.3	1.3	16	6.9
75/79	.0	.0	.0	.0	4.7	14.6	12.9	7.7	95	40.8
70/74	.0	.0	.9	3.4	4.7	13.3	17.6	8.6	113	48.5
65/69	.0	.0	.0	.0	.0	.0	1.3	2.6	9	3.9
TOTAL	0	0	2	10	25	72	77	47	233	100.0
PCT	.0	.0	.9	4.3	10.7	30.9	33.0	20.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.4	.4	.6	1.5	.4	1.0	.8	.9	.0	.9
4.1	3.2	7.0	17.9	3.9	.9	.0	2.1	.0	1.7
2.9	2.7	7.9	20.8	8.5	1.7	.4	2.3	.0	1.3
.0	.0	.0	1.1	1.4	.1	.0	.9	.0	.4
7.4	6.3	15.6	41.3	14.2	3.6	1.2	6.1	.0	4.3

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	89	83	81	76	72	70	69	76.6	271
06&09	89	84	81	76	71	69	68	76.0	483
12&15	83	80	78	74	68	63	62	73.5	258
18&21	88	80	78	73	68	64	62	72.9	484
TOT	89	82	80	75	69	65	62	74.7	1496

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	8.2	16.3	30.6	30.6	14.3	77	49
06&09	.0	7.1	12.9	30.0	32.9	17.1	78	70
12&15	.0	3.9	13.7	27.5	33.3	21.6	80	51
18&21	.0	2.6	5.2	31.2	35.1	26.0	82	77
TOT	0	13	28	74	82	50	80	247

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PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1882-1969

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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
14/16	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
7/8	.0	.0	.0	.2	.0	.2	.2	.0	6	.0	.5
6	.0	.0	.0	.0	.3	.3	.0	.0	6	.0	.5
5	.0	.0	.0	.0	1.0	.6	.1	.0	19	.0	1.7
4	.0	.0	.0	.6	2.5	.9	.0	.0	45	.1	3.9
3	.0	.0	.0	.7	3.2	.5	.0	.0	50	.1	4.3
2	.0	.0	.4	3.4	4.4	.7	.0	.0	101	.4	8.5
1	.0	.0	.4	5.1	4.9	.3	.0	.0	121	.5	10.2
0	.0	.0	1.1	9.8	6.6	.4	.0	.0	200	.9	16.8
-1	.0	.1	2.5	9.7	3.7	.2	.0	.0	182	.4	15.7
-2	.0	.1	4.9	6.4	1.7	.0	.0	.0	147	.0	13.0
-3	.0	.2	5.1	2.7	.2	.0	.0	.0	92	.1	8.1
-4	.0	.8	3.6	2.0	.0	.0	.0	.0	73	.2	6.3
-5	.0	.7	2.5	.6	.0	.0	.0	.0	43	.0	3.8
-6	.0	.6	1.0	.0	.0	.0	.0	.0	18	.0	1.6
-7/-8	.3	.8	.4	.0	.0	.0	.0	.0	16	.0	1.4
-9/-10	.3	.0	.0	.0	.0	.0	.0	.0	3	.0	.3
-11/-13	.3	.0	.0	.0	.0	.0	.0	.0	3	.0	.3
TOTAL	9		246		321		3			31	1097
		37		465		45		2	1128		
PCT	.8	3.3	21.8	41.2	28.5	4.0	.3	.2	100.0	2.7	97.3

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	3.9	.0	.0	.0	.0	3.9
3-4	.0	5.7	.0	.0	.0	.0	5.7
5-6	.0	.0	1.4	1.4	.0	.0	2.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	10.7	1.4	1.4	.0	.0	13.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.4	.0	.0	.0	.0	1.8
1-2	.0	3.2	.0	.0	.0	.0	3.2
3-4	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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+	.4	5.0	.0	.0	.0	.0	5.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	.0	.0	.0	.0	.0	1.1
1-2	.0	5.7	1.4	.0	.0	.0	7.1
3-4	.0	1.1	1.4	.0	.0	.0	2.5
5-6	.0	.0	3.9	.0	.0	.0	3.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.1	6.8	6.8	.0	.0	.0	14.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.6	1.4	.0	.0	.0	5.0
1-2	.0	7.5	4.3	.0	.0	.0	11.8
3-4	.0	4.3	18.9	.0	.0	.0	23.2
5-6	.0	.4	.4	.0	.0	.0	.7
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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	15.7	25.4	.0	.0	.0	41.1

PERIOD: (OVER-ALL) 1963-1969

SEPTEMBER

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.1	.0	.0	.0	.0	2.1
1-2	1.4	2.5	.0	.0	.0	.0	3.9
3-4	.0	1.4	6.8	.0	.0	.0	8.2
5-6	.0	1.1	1.1	.0	.0	.0	2.1
7	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	1.4	.0	.0	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.4	7.1	10.4	.0	.0	.0	18.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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	.4	.0	.0	.0	.4
TOT PCT	.0	.0	.4	.0	.0	.0	.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.4	.0	.0	.0	.0	.4	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	.4	.0	.0	.0	.0	.4	94.3
TOT PCT	.0	.4	.0	.0	.0	.0	.4	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.5	8.5	1.4	.0	.0	.0	18.3	
1-2	1.4	22.5	5.6	.0	.0	.0	29.6	
3-4	.0	12.7	26.8	.0	.0	.0	39.4	
5-6	.0	1.4	7.0	1.4	.0	.0	9.9	
7	.0	.0	1.4	.0	.0	.0	1.4	
8-9	.0	.0	1.4	.0	.0	.0	1.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	71
TOT PCT	9.9	45.1	43.7	1.4	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1969

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	9.6	30.9	31.9	8.5	2.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	79	3
6-7	.0	.0	3.2	2.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
8-9	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	0	
12-13	.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	
INDET	8.5	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	0
TOTAL	17	29	34	10	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	94	3
PCT	18.1	30.9	36.2	10.6	2.1	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1898-1969
(OVER-ALL) 1885-1969

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	1.1	.0	.0	.0	.0	1.1	2.3	.0	3.4	5.1	.0	1.7	.0	87.5
NE	.0	.0	1.3	.0	.0	.0	.0	1.3	.0	.7	6.0	.0	5.3	.0	86.7
E	1.3	3.4	.5	.0	.0	.0	.0	5.2	.0	.3	3.4	.0	.5	.0	90.6
SE	.4	7.4	.9	.0	.0	.0	.0	8.8	.3	.3	2.8	.0	.4	.0	87.5
S	3.8	7.1	1.4	.0	.0	.0	.0	12.2	.0	.0	3.8	.0	.0	.0	84.0
SW	.0	4.7	.0	.0	.0	.0	.0	4.7	.0	.0	16.5	.0	2.4	.0	76.5
W	11.8	.0	.0	.0	.0	.0	.0	11.8	.0	11.8	29.4	.5	5.9	.0	52.9
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	.0	96.0
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	.0	.0	100.0
TOT PCT	1.0	4.9	.8	.0	.0	.0	.1	6.8	.1	.7	4.0	.0	1.1	.0	87.5
TOT OBS:	902														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.5	4.4	.5	.0	.0	.0	.0	5.4	.0	.0	3.9	.0	1.0	.0	89.7
06&09	.8	2.8	.6	.0	.0	.0	.3	4.5	.3	1.1	4.2	.0	1.1	.0	88.8
12&15	1.0	4.2	1.0	.0	.0	.0	.0	6.3	.0	2.6	3.7	.0	.0	.0	88.0
18&21	1.6	8.5	.5	.0	.0	.0	.3	11.0	.0	.3	4.1	.0	1.4	.0	83.6
TOT PCT	1.1	5.2	.6	.0	.0	.0	.2	7.1	.1	.9	4.0	.0	1.0	.0	87.1
TOT OBS:	1117														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	3.8	5.8	.5	.0	.0	.0		10.0	4.8	.0	11.9	12.4	13.7	13.3	9.6	9.1	3.7
NE	3.0	5.6	.3	.1	.0	.0		9.1	4.9	.0	8.4	9.8	11.3	18.3	12.1	6.3	6.6
E	3.8	14.8	3.4	.1	.0	.0		22.1	7.3	34.1	19.2	28.3	22.6	39.2	20.2	22.1	15.0
SE	5.9	25.7	8.0	.3	.0	.0		40.0	7.7	48.9	43.2	40.7	41.0	17.5	42.5	37.1	38.1
S	3.2	6.1	.7	.0	.0	.0		10.0	5.5	8.0	8.9	5.9	6.6	5.0	6.2	12.2	21.4
SW	1.1	1.0	*	.0	.0	.0		2.1	4.1	4.5	1.9	.2	.7	.0	3.1	3.4	3.8
W	.2	.7	.0	.0	.0	.0		.9	5.2	.0	.0	.0	.0	.0	1.2	1.7	2.7
NW	1.1	2.1	.0	.0	.0	.0		3.1	4.8	.0	3.2	1.2	1.8	.0	2.5	4.8	6.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6							2.6	.0	4.5	3.2	1.4	2.3	6.7	2.5	3.4	2.2
TOT OBS	283	706	148	6	0	0	1143		6.5	22	185	207	177	30	161	178	183
TOT PCT	24.8	61.8	12.9	.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	8.0	2.0	.0	.0	.0		10.0	4.8	10.6	13.0	10.2	6.4
NE	7.8	1.2	.2	.0	.0		9.1	4.9	7.5	10.5	13.1	6.4
E	11.2	9.7	1.1	*	.0		22.1	7.3	20.8	25.7	23.2	18.5
SE	19.6	18.2	2.2	*	.0		40.0	7.7	43.8	40.8	38.6	37.6
S	7.2	2.5	.3	.0	.0		10.0	5.5	8.8	6.3	6.0	16.9
SW	1.9	.3	.0	.0	.0		2.1	4.1	2.2	.5	2.6	3.6
W	.7	.2	.0	.0	.0		.9	5.2	.0	.0	1.0	2.2
NW	2.4	.7	.0	.0	.0		3.1	4.8	2.9	1.5	2.1	5.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.6						2.6	.0	3.4	1.8	3.1	2.8
TOT OBS	701	398	43	1	0	1143		6.5	207	384	191	361
TOT PCT	61.3	34.8	3.8	.1	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.4	24.2	60.4	11.6	.5	.0	.0	6.3	100.0	207
06&09	1.8	20.8	64.6	12.2	.5	.0	.0	6.6	100.0	384
12&15	3.1	17.8	60.7	17.3	1.0	.0	.0	7.0	100.0	191
18&21	2.8	24.7	60.1	12.2	.3	.0	.0	6.2	100.0	361
TOT	30	253	706	148	6	0	0	6.5		1143
PCT	2.6	22.1	61.8	12.9	.5	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.4	1.0	1.8	.0		2.2
NE	5.9	3.1	1.3	1.0		2.7
E	16.8	9.2	6.9	2.0		3.0
SE	12.5	14.5	5.6	.0		3.0
S	2.3	.8	.8	1.0		3.2
SW	.0	.0	1.0	.0		6.0
W	.0	.0	.0	.0		.0
NW	1.0	1.0	.0	.0		2.5
VAR	.0	.0	.0	.0		.0
CALM	2.0	.0	2.0	.0		3.2
TOT OBS	46	29	19	4	98	2.9
TOT PCT	46.9	29.6	19.4	4.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	8.4	
NE	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	9.9	
E	.0	.0	.0	1.0	3.1	.0	.8	.0	.0	.0	30.1	
SE	.0	.0	1.0	.0	1.0	1.0	1.3	.0	.0	.0	28.3	
S	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	3.8	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0	2.0	
TOT OBS	0	0	1	1	8	1	2	0	0	1	84	98
TOT PCT	.0	.0	1.0	1.0	8.2	1.0	2.0	.0	.0	1.0	85.7	100.0

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 >50YD	= OR >0
= OR >6500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >3500	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
= OR >2000	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
= OR >1000	11.1	11.1	12.1	12.1	12.1	12.1	12.1	12.1
= OR >600	11.1	12.1	13.1	13.1	13.1	13.1	13.1	13.1
= OR >300	12.1	13.1	14.1	14.1	14.1	14.1	14.1	14.1
= OR >150	12.1	13.1	14.1	14.1	14.1	14.1	14.1	14.1
= OR > 0	12.1	13.1	14.1	14.1	14.1	14.1	14.1	14.1
TOTAL	12	13	14	14	14	14	14	14

TOTAL NUMBER OF OBS: 99 PCT FREQ NH <5/8: 85.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.9	26.7	22.8	18.8	5.0	6.9	4.0	1.0	2.0	.0	101

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.5	.4	.7	1.3	.4	.4	.3	.0	.0	.0	4.0	
	TOT %	.5	.4	.7	1.4	.6	.4	.3	.0	.0	.0	4.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	.4	.2	.1	.0	.1	.1	.1	.0	.0	1.0	
	TOT %	.2	.4	.2	.1	.0	.1	.1	.1	.0	.0	1.0	
2<5	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	
5<10	PCP	.1	.1	.9	3.5	1.2	.1	.1	.0	.0	.0	6.1	
	NO PCP	5.5	5.0	13.7	30.0	8.3	1.2	.5	1.8	.0	.6	66.6	
	TOT %	5.7	5.2	14.6	33.6	9.5	1.3	.6	1.8	.0	.6	72.7	
10+	PCP	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	3.3	2.2	5.7	6.6	1.6	.6	.0	.8	.0	.4	21.4	
	TOT %	3.4	2.2	5.8	6.6	1.7	.6	.0	.8	.0	.4	21.7	
	TOT OBS												902
	TOT PCT	9.8	8.3	21.3	41.8	11.8	2.4	.9	2.8	.0	1.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	*	*	.3	.1	.1	.1	.0	.0	.0	.0	.7	
	4-10	.4	.3	.3	1.1	.4	.2	.2	.0	.0		3.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.4	.6	1.2	.5	.3	.2	.0	.0	.0	3.7	
1<2	0-3	.0	*	*	.0	.0	*	*	.1	.0	.0	.3	
	4-10	.1	.3	*	.0	.0	.0	.0	.1	.0		.6	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.3	.1	*	.0	*	*	.2	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.1	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	.4	.0	.0	.0	.0	.0	.0	.6	
5<10	0-3	1.5	2.0	2.7	5.5	2.6	.6	.1	.5	.0	.5	16.0	
	4-10	3.3	2.5	8.2	19.1	5.3	.5	.4	1.2	.0		40.6	
	11-21	.3	*	2.0	4.9	.4	.0	.0	.0	.0		7.8	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	5.0	4.6	12.9	29.8	8.4	1.1	.5	1.7	.0	.5	64.6	
10+	0-3	2.3	.6	1.1	.8	.7	.4	.0	.5	.0	1.4	7.8	
	4-10	2.3	1.8	6.2	5.8	.8	.2	.0	1.0	.0		18.1	
	11-21	.2	.2	1.1	2.5	.3	*	.0	.0	.0		4.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	4.8	2.6	8.4	9.2	1.8	.7	.0	1.5	.0	1.4	30.2	
	TOT OBS												1030
	TOT PCT	10.4	8.0	22.2	40.6	10.7	2.2	.8	3.3	.0	1.8	100.0	

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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
00&03	.0	.0	.0	.0	13.0	.0	.0	.0	.0	.0	13.0	87.0	23
06&09	.0	.0	3.6	.0	3.6	.0	.0	.0	.0	.0	7.1	92.9	28
12&15	.0	.0	.0	.0	3.6	3.6	.0	.0	.0	.0	7.1	92.9	28
18&21	.0	.0	.0	4.5	13.6	.0	9.1	.0	.0	4.5	31.8	68.2	22
TOT	0	0	1	1	8	1	2	0	0	1	14	87	101
PCT	.0	.0	1.0	1.0	7.9	1.0	2.0	.0	.0	1.0	13.9	86.1	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
00&03	.0	3.7	.5	.9	65.6	29.3	2[illegible]5
06&09	.0	3.9	.7	.7	70.8	23.8	4[illegible]7
12&15	.0	3.7	.0	.5	66.4	29.5	2[illegible]7
18&21	.0	3.9	1.7	.0	71.7	22.7	406
TOT	0	48	11	6	864	316	1245
PCT	.0	3.9	.9	.5	69.4	25.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	4.3	13.0	82.6	23
06&09	.0	3.6	7.1	.0	92.9	28
12&15	.0	.0	.0	7.1	92.9	28
18&21	.0	.0	5.0	30.0	65.0	20
TOT	0	1	4	11	84	99
PCT	.0	1.0	4.0	11.1	84.8	100.0

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
85/89	.0	.0	.4	.0	.8	.4	.4	1.3	8	3.4
80/84	.0	.0	.0	2.1	5.1	4.6	4.2	3.0	45	19.0
75/79	.0	.0	.0	1.3	7.6	28.3	22.8	9.3	164	69.2
70/74	.0	.0	.0	.0	1.3	3.0	3.0	1.3	20	8.4
TOTAL	0	0	1	8	35	86	72	35	237	100.0
PCT	.0	.0	.4	3.4	14.8	36.3	30.4	14.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.9	.6	1.1	.6	.0	.0	.0	.1	.0	.0
2.0	2.1	5.1	6.2	.9	.4	.0	.9	.0	1.3
10.2	7.4	18.7	23.7	2.8	.6	.0	4.0	.0	1.7
1.1	.8	3.0	1.6	.9	.4	.0	.6	.0	.0
14.2	11.0	27.7	32.2	4.7	1.5	.0	5.7	.0	3.0

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	89	88	85	79	75	72	71	79.5	238
06&09	91	87	84	78	75	73	72	78.5	443
12&15	82	81	80	76	73	70	69	76.2	236
18&21	86	82	80	76	71	69	67	76.1	441
TOT	91	86	82	77	73	70	67	77.5	1358

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	6.0	28.0	38.0	14.0	14.0	75	50
06&09	.0	6.9	15.3	34.7	29.2	13.9	77	72
12&15	.0	.0	15.6	31.1	40.0	13.3	80	45
18&21	.0	1.2	6.0	41.7	34.5	16.7	81	84
TOT	0	9	37	93	75	37	79	251

OCTOBER

PERIOD: (PRIMARY) 1898-1969
(OVER-ALL) 1883-1969

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	.0	.1	.1	2	.0	.2
9/10	.0	.0	.0	.0	.0	.3	.0	3	.0	.3
7/8	.0	.0	.0	.1	.4	.3	.0	8	.0	.9
6	.0	.0	.0	.0	.3	.6	.0	8	.0	.9
5	.0	.0	.0	.8	1.1	.1	.0	18	.0	2.0
4	.0	.0	.1	1.6	1.3	.1	.0	28	.0	3.1
3	.0	.0	.2	2.7	1.5	.1	.0	40	.7	3.8
2	.0	.0	.7	5.9	1.8	.1	.0	76	1.1	7.4
1	.0	.0	.9	10.4	.9	.0	.0	109	.9	11.3
0	.0	.0	5.6	17.6	.7	.0	.0	213	.9	23.0
-1	.0	.0	4.3	10.8	.4	.0	.0	138	.3	15.2
-2	.0	.2	5.7	5.6	.0	.0	.0	140	.6	15.2
-3	.1	.2	3.6	1.7	.1	.0	.0	51	.0	5.7
-4	.0	.6	2.4	.1	.0	.0	.0	27	.1	2.9
-5	.0	1.2	.8	.1	.0	.0	.0	19	.0	2.1
-6	.0	.3	.7	.0	.0	.0	.0	9	.1	.9
-7/-8	.0	.1	.0	.0	.0	.0	.0	1	.1	.0
-9/-10	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1		257		77		1		43	848
		25		514		16		891		
PCT	.1	2.8	28.8	57.7	8.6	1.8	.1	100.0	4.8	95.2

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.7	.0	.0	.0	.0	3.7
1-2	.0	1.3	.0	.0	.0	.0	1.3
3-4	.0	.0	2.3	.0	.0	.0	2.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	5.0	2.3	.0	.0	.0	7.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	3.0	1.3	.0	.0	.0	9.3
3-4	.0	.3	.3	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	9.0	1.7	.0	.0	.0	10.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.0	1.0	.0	.0	.0	3.3
1-2	.0	15.7	2.7	.0	.0	.0	18.3
3-4	.0	5.7	2.3	.0	.0	.0	8.0
5-6	.0	.0	2.3	.0	.0	.0	2.3
7	.0	.0	1.3	.0	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.3	22.3	9.7	.0	.0	.0	33.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.3	.0	.0	.0	1.7
1-2	.0	15.7	4.0	.0	.0	.0	19.7
3-4	.0	.7	7.7	.0	.0	.0	8.3
5-6	.0	.3	5.7	.0	.0	.0	6.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	1.3	.0	.0	.0	1.3
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
TOT PCT	.0	18.0	19.0	.0	.0	.0	37.0

OCTOBER

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PERIOD: (OVER-ALL) 1963-1969

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	2.0	.0	.0	.0	.0	2.0
3-4	.0	.0	2.0	.0	.0	.0	2.0
5-6	.0	1.0	.0	.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	4.3	2.0	.0	.0	.0	6.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	46+	PCT
<1	1.3	.0	.0	.0	.0	.0	1.3
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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	1.3
87+	1.3	.0	.0	.0	.0	.0	
TOT PCT							

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.3	.0	.0	.0	.0	1.3	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	1.3	.0	.0	.0	.0	1.3	97.3
TOT PCT								

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.8	7.8	1.3	.0	.0	.0	16.9	
1-2	.0	42.9	7.8	.0	.0	.0	50.6	
3-4	.0	6.5	14.3	.0	.0	.0	20.8	
5-6	.0	1.3	7.8	.0	.0	.0	9.1	
7	.0	.0	1.3	.0	.0	.0	1.3	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	1.3	.0	.0	.0	1.3	
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	77
TOT PCT	7.8	58.4	33.8	.0	.0	.0	100.0	

PERIOD: (OVER-ALL) 1950-1969

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	13.6	34.1	13.6	8.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	2
6-7	.0	2.3	6.8	3.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	4
8-9	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
10-11	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
12-13	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	5.7	1.1	1.1	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	2
TOTAL	17	33	22	12	1	2	0	0	0	1	0	0	0	0	0	0	0	0	0	88	3
PCT	19.3	37.5	25.0	13.6	1.1	2.3	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1905-1969
(OVER-ALL) 1884-1969

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.2	3.0	.0	.0	.0	.0	.0	5.2	.0	3.0	9.1	.0	.9	.0	83.0
NE	1.3	3.0	.0	.0	.0	.0	.0	4.2	.0	2.1	7.2	.0	1.1	.0	86.7
E	1.8	5.6	.7	.0	.0	.0	.0	8.1	.0	1.4	6.1	.0	1.1	.0	84.2
SE	1.8	13.0	.1	.0	.0	.0	.0	14.9	.5	.5	2.5	.0	.3	.0	81.3
S	15.9	20.6	.7	.0	.0	.0	.0	37.2	.0	.7	1.7	.0	.7	.0	59.8
SW	17.2	15.1	4.3	.0	.0	.0	.0	36.6	.0	4.3	10.8	.0	.0	.0	52.7
W	8.3	4.2	.0	.0	.0	.0	.0	12.5	.0	25.0	.0	.0	.0	.0	70.8
NW	.0	4.9	.0	.0	.0	.0	.0	4.9	.0	.0	16.4	.0	.0	.0	78.7
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	10.3	.0	89.7
TOT PCT	4.1	9.8	.4	.0	.0	.0	.0	14.2	.2	1.5	4.8	.0	.9	.0	79.1
TOT OBS:	1086														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.1	5.8	.0	.0	.0	.0	.0	8.9	.0	.4	4.0	.0	.4	.0	86.6
06&09	2.7	5.8	.0	.0	.0	.0	.0	8.5	.0	2.9	6.3	.0	.9	.0	82.3
12&15	5.0	12.1	.8	.0	.0	.0	.0	18.0	.4	4.2	4.6	.0	1.3	.0	73.2
18&21	5.5	13.4	.5	.0	.0	.0	.0	19.3	.2	.9	4.8	.0	.7	.0	74.5
TOT PCT	4.1	9.4	.3	.0	.0	.0	.0	13.8	.1	2.1	5.1	.0	.8	.0	78.9
TOT OBS:	1350														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.6	7.2	.4	.0	.0	.0		10.3	5.4	12.5	13.9	12.2	11.3	15.8	5.8	7.8	8.7
NE	2.7	8.4	.5	.0	.0	.0		11.5	5.4	9.4	11.8	13.6	10.1	28.3	11.6	10.7	8.4
E	3.3	15.5	2.6	.1	.0	.0		21.5	6.8	15.6	21.5	25.5	23.6	15.8	19.7	21.6	17.1
SE	4.2	25.1	6.5	.1	.0	.0		35.9	7.6	34.4	37.1	41.0	39.3	30.0	36.3	28.0	34.0
S	3.5	7.5	.9	.1	.0	.0		12.0	5.3	11.5	8.8	6.0	9.8	5.8	13.7	17.6	18.8
SW	.7	1.4	.0	.0	.0	.0		2.1	4.1	4.2	.5	.0	.7	.8	2.6	5.1	3.8
W	.4	.6	.0	.0	.0	.0		1.0	4.1	.0	.9	.0	.0	.0	1.8	2.0	1.9
NW	1.3	1.7	.3	.0	.0	.0		3.3	5.2	8.3	3.1	1.2	3.3	.0	4.7	3.8	4.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0	4.2	2.4	.4	1.9	3.3	3.7	3.6	3.3
TOT OBS	279	889	149	3	0	0	1320		6.3	24	212	243	212	30	190	225	184
TOT PCT	21.1	67.3	11.3	.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	7.6	2.7	*	.0	.0		10.3	5.4	13.8	11.8	7.2	8.2
NE	8.5	2.9	.1	.0	.0		11.5	5.4	11.5	12.0	13.9	9.7
E	12.8	8.0	.7	.0	.0		21.5	6.8	20.9	24.6	19.2	19.6
SE	17.5	16.7	1.7	.0	.0		35.9	7.6	36.9	40.2	35.5	30.7
S	9.7	2.1	.2	.0	.0		12.0	5.3	9.1	7.7	12.6	18.1
SW	2.0	.1	.0	.0	.0		2.1	4.1	.8	.3	2.4	4.5
W	.9	.1	.0	.0	.0		1.0	4.1	.8	.0	1.6	2.0
NW	2.5	.8	*	.0	.0		3.3	5.2	3.6	2.2	4.1	3.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	2.5	1.1	3.6	3.4
TOT OBS	845	438	37	0	0	1320		6.3	236	455	220	409
TOT PCT	64.0	33.2	2.8	.0	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	2.5	17.4	66.1	13.6	.4	.0	.0	6.4	100.0	236
06609	1.1	17.1	71.0	10.8	.0	.0	.0	6.6	100.0	455
12615	3.6	14.1	70.9	10.5	.9	.0	.0	6.5	100.0	220
18621	3.4	23.5	62.1	11.0	.0	.0	.0	5.9	100.0	409
TOT	33	246	889	149	3	0	0	6.3		1320
PCT	2.5	18.6	67.3	11.3	.2	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.8	4.4	2.5	1.8		4.0
NE	10.3	5.3	3.2	1.8		2.8
E	11.9	3.0	3.4	.9		2.6
SE	19.3	11.2	6.4	.0		2.7
S	.7	.9	2.5	.9		5.4
SW	.0	.9	.2	.0		4.6
W	.0	.0	.0	.0		.0
NW	.9	.0	.9	.0		3.5
VAR	.0	.0	.0	.0		.0
CALM	2.8	.9	.0	.0		1.5
TOT OBS	53	29	21	6	109	3.0
TOT PCT	48.6	26.6	19.3	5.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.7	.9	.9	.0	.0	.0	.0	8.9	
NE	.0	.0	.0	.2	1.8	.0	.0	.0	.0	.0	18.6	
E	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	18.3	
SE	.0	.0	.0	1.8	.0	.9	.0	.0	.0	.0	34.2	
S	.0	.0	.0	.7	1.8	.0	.9	.0	.0	.0	1.6	
SW	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.9	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	
TOT OBS	0	0	0	5	5	3	1	0	0	0	95	109
TOT PCT	.0	.0	.0	4.6	4.6	2.8	.9	.0	.0	.0	87.2	100.0

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 >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.9	.9	.9	.9	.9	.9	.9	.9
* OR >2000	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
* OR >1000	7.1	8.0	8.0	8.0	8.0	8.0	8.0	8.0
* OR >600	10.6	12.4	12.4	12.4	12.4	12.4	12.4	12.4
* OR >300	10.6	12.4	12.4	12.4	12.4	12.4	12.4	12.4
* OR >150	10.6	12.4	12.4	12.4	12.4	12.4	12.4	12.4
* OR > 0	10.6	12.4	12.4	12.4	12.4	12.4	12.4	12.4
TOTAL	12	14	14	14	14	14	14	14

TOTAL NUMBER OF OBS: 113 PCT FREQ NH <5/8: 87.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
14.3	29.7	24.4	15.1	10.9	5.9	4.2	1.7	.8	.0	119

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.5	
	NO PCP	.9	.3	.7	1.0	.2	.2	.0	.5	.0	.0	3.8	
	TOT %	.9	.3	.9	1.1	.4	.2	.0	.5	.0	.0	4.2	
1<2	PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.2	.1	.0	.1	.0	.0	.0	.0	.1	.5	
	TOT %	.0	.2	.1	*	.1	.0	.0	.0	.0	.1	.6	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
5<10	PCP	.6	.5	1.3	5.1	5.0	.8	.1	.1	.0	.0	13.5	
	NO PCP	7.2	5.8	12.5	21.8	7.1	.9	.8	1.6	.0	1.4	59.0	
	TOT %	7.8	6.2	13.8	26.9	12.1	1.7	.9	1.7	.0	1.4	72.6	
10+	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	1.9	4.2	5.5	7.4	1.2	.2	.2	.6	.0	1.2	22.5	
	TOT %	1.9	4.2	5.6	7.4	1.2	.2	.2	.6	.0	1.2	22.6	
	TOT OBS												1086
	TOT PCT	10.6	10.9	20.4	35.5	13.9	2.1	1.1	2.8	.0	2.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.2	.2	.2	.1	*	*	.0	.2	.0	.0	1.1	
	4-10	.6	.1	.6	.9	.3	.2	.0	.2	.0		2.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.8	.2	.8	1.0	.3	.2	.0	.4	.0	.0	3.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.2	.1	.1	.1	.0	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.1	.1	.1	.0	.0	.0	.0	.1	.6	
2<5	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.1	.2	.1	.0	.0	.0	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.2	.2	.0	.0	.0	.0	.0	.5	
5<10	0-3	2.0	1.5	1.6	2.4	3.5	.5	.3	.4	.0	1.2	14.5	
	4-10	4.7	4.0	9.6	17.8	6.7	1.1	.5	.9	.0		45.3	
	11-21	.4	.2	1.4	3.4	.7	.0	.0	.3	.0		6.4	
	22+	.0	.0	.1	*	.0	.0	.0	.0	.0		.2	
	TOT %	7.1	5.7	12.8	24.6	10.9	1.6	.8	1.6	.0	1.2	66.3	
10+	0-3	.4	1.0	1.4	.8	.1	.1	.1	.2	.0	1.2	5.4	
	4-10	1.6	3.8	5.1	6.1	.9	.2	.2	.2	.0		18.2	
	11-21	.0	.2	1.1	3.4	.3	.0	.0	.1	.0		5.1	
	22+	.0	.0	.0	*	.1	.0	.0	.0	.0		.1	
	TOT %	1.9	5.1	7.6	10.4	1.4	.3	.2	.6	.0	1.2	28.8	
	TOT OBS												1215
	TOT PCT	9.9	11.2	21.4	36.3	12.9	2.1	1.1	2.6	.0	2.6	100.0	

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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
00&03	.0	.0	.0	4.0	4.0	.0	.0	.0	.0	.0	8.0	92.0	25
06&09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	31
12&15	.0	.0	.0	6.1	12.1	6.1	.0	.0	.0	.0	24.2	75.8	33
18&21	.0	.0	.0	6.9	.0	3.4	3.4	.0	.0	.0	13.8	86.2	29
TOT	0	0	0	5	5	3	1	0	0	0	14	104	118
PCT	.0	.0	.0	4.2	4.2	2.5	.8	.0	.0	.0	11.9	88.1	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
00&03	.0	3.8	.0	.0	66.7	29.5	237
06&09	.0	5.3	.6	.0	68.4	25.7	491
12&15	.0	3.7	.4	.0	67.5	28.4	271
18&21	.0	4.2	.6	1.3	71.8	22.1	479
TOT	0	65	7	6	1021	379	1478
PCT	.0	4.4	.5	.4	69.1	25.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	4.2	4.2	91.7	24
06&09	.0	.0	.0	.0	100.0	30
12&15	.0	.0	6.5	19.4	74.2	31
18&21	.0	.0	7.1	7.1	85.7	28
TOT	0	0	5	9	99	113
PCT	.0	.0	4.4	8.0	87.6	100.0

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
90/94	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
85/89	.0	.0	.0	.2	1.2	2.2	.7	.5	20	4.8
80/84	.0	.0	.0	.0	7.2	19.5	18.4	4.8	195	46.9
75/79	.0	.0	.0	.5	2.6	21.2	16.6	7.0	199	47.8
70/74	.0	.0	.0	.0	.0	.0	.2	.0	1	.2
TOTAL	0	0	0	3	47	178	137	51	416	100.0
PCT	.0	.0	.0	.7	11.3	42.8	32.9	12.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0
	.6	.4	1.2	1.7	.0	.0	.2	.2	.0	.5
	5.9	9.1	11.4	14.9	1.8	.2	.2	2.0	.0	1.2
	2.0	8.5	9.2	17.7	3.5	.4	.7	1.1	.0	4.8
	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
	8.5	17.9	21.9	34.4	5.3	.9	1.2	3.4	.0	6.5

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	94	88	85	81	77	75	74	81.1	256
06&09	91	87	85	80	77	75	71	80.4	519
12&15	84	82	81	78	75	72	70	78.2	286
18&21	87	83	81	78	74	70	70	77.8	514
TOT	94	87	84	79	75	71	70	79.3	1575

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	20.2	44.0	27.4	8.3	77	84
06&09	.0	2.3	14.6	50.3	24.6	8.2	77	171
12&15	.0	.0	6.0	40.0	40.0	14.0	81	100
18&21	.0	.0	4.2	38.7	38.1	19.0	82	168
TOT	0	4	55	228	169	67	79	523

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	WO FOG
9/10	.0	.0	.0	.0	.0	.1	1	.0	.1
7/8	.0	.0	.2	.0	.2	.1	7	.0	.6
6	.0	.0	.2	.4	.2	.0	10	.0	.8
5	.0	.0	.1	.2	1.2	.0	18	.0	1.5
4	.0	.0	.2	1.6	.7	.0	30	.0	2.5
3	.0	.0	.9	3.3	.8	.0	61	.3	4.7
2	.0	.0	2.2	4.9	.4	.1	93	.2	7.5
1	.0	.7	6.2	5.6	.2	.0	154	.5	12.2
0	.2	.2	15.3	6.2	.0	.0	267	1.6	20.3
-1	.0	1.2	14.5	3.9	.0	.0	240	1.7	18.0
-2	.0	2.6	6.3	.7	.0	.0	141	.4	11.2
-3	.1	2.5	3.6	.4	.0	.0	81	.1	6.6
-4	.2	2.5	2.1	.0	.0	.0	59	.2	4.7
-5	.4	1.2	.6	.1	.0	.0	27	.1	2.1
-6	.1	1.0	.1	.0	.0	.0	14	.0	1.2
-7/-8	.2	.7	.0	.0	.0	.0	12	.1	.9
-9/-10	.2	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	16	155	666	333	44	3	1217	63	1154
PCT	1.3	12.7	54.7	27.4	3.6	.2	100.0	5.2	94.8

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.3	.0	.0	.0	.0	2.7
1-2	.0	4.0	.0	.0	.0	.0	4.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.3	5.3	.0	.0	.0	.0	6.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	5.3	4.0	.0	.0	.0	.0	9.3
1-2	.0	10.3	.0	.0	.0	.0	10.3
3-4	.0	.3	1.3	.0	.0	.0	1.7
5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	5.3	14.7	2.7	.0	.0	.0	22.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	6.3	.0	.0	.0	.0	6.3
1-2	.0	8.3	1.0	.0	.0	.0	9.3
3-4	.0	6.0	3.3	.0	.0	.0	9.3
5-6	.0	.0	4.0	.0	.0	.0	4.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	20.7	8.3	.0	.0	.0	29.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.3	5.3	7.0	.0	.0	.0	12.7
3-4	.0	7.0	10.0	.0	.0	.0	17.0
5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	1.3	.0	.0	.0	1.3
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
TOT PCT	.3	12.7	19.7	.0	.0	.0	32.7

PERIOD: (OVER-ALL) 1963-1969

NOVEMBER

TABLE 18 (CONT)

AREA 0002 CAIRNS
16.6S 145.6E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	1.0	1.0	1.3	.0	.0	.0	3.3	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.0	1.3	.0	.0	.0	1.3	.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
TOT PCT	1.0	1.0	2.7	.0	.0	.0	4.7	.0	.3	.0	.0	.0	.0	.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	1.3	
3-4	.0	.0	.0	.0	.0	.0	.0	.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	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	1.3	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.7	11.7	.0	.0	.0	.0	23.4	
1-2	1.3	29.9	9.1	.0	.0	.0	40.3	
3-4	.0	13.0	15.6	.0	.0	.0	28.6	
5-6	.0	.0	6.5	.0	.0	.0	6.5	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	1.3	.0	.0	.0	1.3	
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	
								77
TOT PCT	13.0	54.5	32.5	.0	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1969

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	9.8	31.4	21.6	5.9	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	72	2
6-7	.0	2.0	1.0	4.9	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	5
8-9	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
10-11	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	2
12-13	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	11.8	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	0
TOTAL	22	38	25	11	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	102	2
PCT	21.6	37.3	24.5	10.8	3.9	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1905-1969
(OVER-ALL) 1857-1969

AREA 0002 CAIRNS
16.85 145.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.7	1.9	1.1	.0	.0	.0	.0	5.6	.0	4.7	12.0	.0	.0	.0		79.5
NE	4.0	3.2	.0	.0	.0	.0	.0	7.2	2.4	3.6	6.0	.0	2.0	.0		80.1
E	3.7	12.1	.0	.0	.0	.0	.0	15.9	1.6	2.2	.8	.0	1.9	.0		78.3
SE	5.5	15.1	.0	.0	.0	.0	.0	20.5	.2	1.9	2.7	.0	.2	.0		75.9
S	14.3	18.6	1.5	.0	.0	.0	.0	34.4	1.5	2.6	3.1	.0	.0	.0		60.1
SW	10.4	10.4	.7	.0	.0	.0	.0	21.5	3.7	7.4	1.5	.0	3.0	.0		70.4
W	8.3	16.7	.0	.0	.0	.0	.0	25.0	.0	4.2	12.5	.0	2.1	.0		60.4
NW	3.5	4.7	.0	.0	.0	.0	.0	8.1	2.3	5.2	9.3	.0	1.2	.0		75.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	7.7	.0	.0	.0	.0	7.7	.0	.0	.0	.0	15.4	.0		76.9
TOT PCT	5.6	10.2	.5	.0	.0	.0	.0	16.3	1.0	3.1	5.1	.0	1.0	.0		75.1
TOT OBS:	988															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.2	4.6	.0	.0	.0	.0	.0	7.8	1.8	.0	3.7	.0	2.8	.0		83.9
06&09	2.9	7.7	.5	.0	.0	.0	.0	11.1	.3	2.9	5.3	.0	2.4	.0		78.8
12&15	10.6	12.6	.0	.0	.0	.0	.0	23.2	1.0	8.7	3.4	.0	.0	.0		67.6
18&21	7.1	12.1	1.1	.0	.0	.0	.0	20.3	1.1	3.2	5.3	.0	2.4	.0		70.0
TOT PCT	5.7	9.4	.5	.0	.0	.0	.0	15.6	.9	3.5	4.6	.0	2.0	.0		75.0
TOT OBS:	1183															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	3.6	13.3	.9	.0	.0	.0		17.8	6.1	2.5	22.1	21.4	22.7	19.4	17.0	13.6	10.5
NE	2.9	9.1	.8	.0	.0	.0		12.8	6.1	15.0	14.3	16.1	16.0	21.0	10.6	8.6	8.5
E	2.4	12.6	2.0	.3	.0	.0		17.3	7.3	20.0	16.5	19.0	17.1	33.9	19.1	15.3	13.3
SE	2.9	20.5	5.1	.2	.0	.0		28.6	8.0	40.0	27.0	31.6	30.2	21.0	28.9	26.6	26.8
S	3.4	6.0	.8	.0	.0	.0		10.2	5.4	10.8	8.1	6.6	6.5	2.4	9.8	15.3	16.8
SW	1.5	1.7	*	.0	.0	.0		3.2	4.5	5.0	1.2	1.7	.5	.0	2.2	6.5	8.1
W	.6	1.9	.2	.0	.0	.0		2.7	5.3	.0	3.3	.5	1.5	.0	4.5	3.4	4.0
NW	1.1	3.4	.1	.0	.0	.0		4.7	6.0	3.3	4.5	2.6	4.0	2.4	4.5	5.8	7.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8							2.8	.0	3.3	2.9	.5	1.5	.0	3.4	4.9	4.5
TOT OBS	262	848	123	6	0	0	1239		6.5	30	210	209	199	31	179	204	177
TOT PCT	21.1	68.4	9.9	.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	11.4	6.2	.2	.0	.0		17.8	6.1	19.7	22.1	17.4	12.1
NE	8.2	4.4	.2	.0	.0		12.8	6.1	14.4	16.1	12.1	8.5
E	9.4	7.0	.8	*	.0		17.3	7.3	17.0	18.1	21.3	14.4
SE	12.4	14.7	1.5	*	.0		28.6	8.0	28.6	30.9	27.7	26.7
S	7.3	2.8	.0	.0	.0		10.2	5.4	8.4	6.6	8.7	16.0
SW	2.4	.8	.0	.0	.0		3.2	4.5	1.7	1.1	1.9	7.2
W	2.1	.6	.0	.0	.0		2.7	5.3	2.9	1.0	3.8	3.7
NW	2.8	1.8	*	.0	.0		4.7	6.0	4.4	3.3	4.2	6.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.8						2.8	.0	2.9	1.0	2.9	4.7
TOT OBS	730	474	34	1	0	1239		6.5	240	408	210	381
TOT PCT	58.9	38.3	2.7	.1	.0		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1905-1969
(OVER-ALL) 1857-1969

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.9	17.1	66.7	12.5	.8	.0	.0	6.7	100.0	240
06&09	1.0	16.7	73.0	9.1	.2	.0	.0	6.8	100.0	408
12&15	2.9	13.8	69.0	13.3	1.0	.0	.0	7.0	100.0	210
18&21	4.7	23.4	64.3	7.3	.3	.0	.0	5.8	100.0	381
TOT	35	227	848	123	6	0	0	6.5		1239
PCT	2.8	18.3	68.4	9.9	.5	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.0	4.2	.7	.7		2.5
NE	2.3	6.0	6.0	1.2		4.4
E	10.4	5.6	9.3	4.9		4.4
SE	10.0	9.0	5.3	6.3		4.1
S	.0	.7	2.1	1.6		6.7
SW	.9	.0	.5	.9		5.0
W	.0	.0	.9	.0		6.0
NW	.0	.5	2.1	.2		5.9
VAR	.0	.0	.0	.0		.0
CALM	.9	.0	.9	.0		3.5
TOT OBS	33	28	30	17	108	4.2
TOT PCT	30.6	25.9	27.8	15.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	10.9	
	.0	.0	.0	2.8	1.9	.2	.0	.0	.0	.0	10.6	
	.0	.0	.0	1.6	3.7	3.2	.7	.0	.0	.0	20.8	
	.0	.0	.0	3.0	3.2	1.2	1.2	.0	.0	.0	22.0	
	.0	.0	.0	1.6	1.4	.0	.0	.0	.0	.0	1.4	
	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	2.1	
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
	.0	.0	.0	.2	.0	.0	.9	.0	.0	.0	.7	
	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	.0	.0	.0	11	11	5	3	0	0	0	77	108
	0	1	0	10.2	10.2	4.6	2.8	.0	.0	.0	71.3	100.0
	.0	.9	.0									

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 >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
= OR >2000	4.5	5.4	6.3	6.3	6.3	6.3	6.3	6.3
= OR >1000	12.6	14.4	16.2	16.2	16.2	16.2	16.2	16.2
= OR >600	18.0	23.4	26.1	26.1	26.1	26.1	26.1	26.1
= OR >300	16.0	23.4	26.1	26.1	26.1	26.1	26.1	26.1
= OR >150	18.9	24.3	27.0	27.0	27.0	27.0	27.0	27.0
= OR > 0	18.9	24.3	27.0	27.0	27.0	27.0	27.0	27.0
TOTAL	21	27	30	30	30	30	30	30

TOTAL NUMBER OF OBS: 111

PCT FREQ NH <5/8: 73.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.8	20.5	19.7	15.2	9.8	7.6	6.1	10.6	6.8	.0	132

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PERIOD: (PRIMARY) 1905-1969
(OVER-ALL) 1857-1969

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.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	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
1/2<)	NO PCP	2.0	.6	.1	.8	.4	.1	.4	.4	.0	.0	4.7	
	TOT %	2.0	.6	.1	1.2	.4	.1	.4	.4	.0	.0	5.1	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.2	.2	.1	.0	.1	.1	.1	.0	.2	.8	
	TOT %	.0	.2	.2	.1	.0	.1	.1	.1	.0	.2	.8	
	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
2<5	NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	PCP	1.1	.8	2.4	5.2	3.7	.7	.6	.4	.0	.0	14.9	
5<10	NO PCP	10.6	6.4	9.1	16.2	5.3	2.1	.7	2.0	.0	.3	52.6	
	TOT %	11.6	7.2	11.5	21.4	9.0	2.8	1.3	2.4	.0	.3	67.5	
	PCP	.0	.1	.1	.4	.2	*	.0	.0	.0	.1	.9	
10+	NO PCP	5.3	4.5	4.3	6.0	1.9	.4	.7	1.5	.0	.7	25.4	
	TOT %	5.3	4.6	4.4	6.4	2.1	.4	.7	1.5	.0	.8	26.3	
	TOT OBS												988
	TOT PCT	18.9	12.7	16.2	29.1	11.5	3.4	2.4	4.4	.0	1.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.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	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.1	.0	.1	.2	.0	.0	.0	.0	.0	.4	
1/2<1	4-10	1.6	.4	*	.6	.2	.1	.3	.4	.0		3.6	
	11-21	.2	.0	.0	.4	.0	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.7	.5	*	1.1	.4	.1	.3	.4	.0	.0	4.5	
	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.3	.4	
1<2	4-10	.0	.1	.2	*	.0	.1	.0	.0	.0		.4	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.2	.1	.0	.1	*	*	.0	.3	.9	
	0-3	*	*	.0	.0	.0	.0	*	*	.0	.1	.3	
2<5	4-10	.1	.0	.0	.1	.0	.0	.0	.0	.0		.2	
	11-21	.0	.3	.1	.0	.0	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.3	.1	.1	.0	.0	*	*	.0	.1	.8	
	0-3	2.9	1.5	1.8	2.4	3.0	1.2	.2	.6	.0	.6	14.3	
5<10	4-10	7.1	4.9	8.3	15.0	4.5	1.3	.9	1.6	.0		43.7	
	11-21	.4	.3	.6	2.3	.5	.0	.0	*	.0		4.1	
	22+	.0	.0	.2	.1	.0	.0	.0	.0	.0		.3	
	TOT %	10.4	6.7	10.9	19.8	8.1	2.6	1.2	2.3	.0	.6	62.4	
	0-3	.6	.9	.5	.6	.4	.3	.3	.3	.0	1.2	5.1	
10+	4-10	4.7	3.3	4.2	5.7	1.7	.3	.4	1.3	.0		21.7	
	11-21	.4	.3	.9	2.5	.2	*	.1	*	.0		4.5	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	5.7	4.6	5.6	8.8	2.4	.6	.9	1.7	.0	1.2	31.4	
	TOT OBS												1115
	TOT PCT	17.9	12.2	16.9	29.8	10.9	3.3	2.4	4.4	.0	2.2	100.0	

DECEMBER

PERIOD: (PRIMARY) 1905-1969
(OVER-ALL) 1857-1969

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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
00&03	.0	.0	.0	10.7	7.1	7.1	7.1	.0	.0	.0	32.1	67.9	28
06&09	.0	.0	.0	9.4	12.5	.0	3.1	.0	.0	.0	25.0	75.0	32
12&15	.0	.0	.0	5.9	5.9	5.9	.0	.0	.0	.0	17.6	82.4	34
18&21	.0	3.4	.0	13.8	10.3	3.4	.0	.0	.0	.0	31.0	69.0	29
TOT	0	1	0	12	11	5	3	0	0	0	32	91	123
PCT	.0	.8	.0	9.8	8.9	4.1	2.4	.0	.0	.0	26.0	74.0	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
00&03	.0	3.9	2.2	.0	61.2	32.8	232
06&09	.0	4.5	1.9	.5	67.9	25.2	420
12&15	.4	2.1	.8	1.7	63.7	31.2	237
18&21	.0	5.0	2.1	.7	67.2	24.9	421
TOT	1	54	24	9	861	361	1310
PCT	.1	4.1	1.8	.7	65.7	27.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	11.1	18.5	70.4	27
06&09	.0	.0	6.9	17.2	75.9	29
12&15	.0	.0	14.3	7.1	78.6	28
18&21	.0	3.7	18.5	14.8	66.7	27
TOT	0	1	14	16	81	111
PCT	.0	.9	12.6	14.4	73.0	100.0

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
95/99	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
90/94	.0	.0	.0	.2	.0	.7	.0	.0	4	.9
85/89	.0	.0	.0	.5	4.8	3.9	3.9	.5	59	13.5
80/84	.0	.0	.0	.5	5.0	30.2	25.6	6.6	297	68.0
75/79	.0	.0	.0	.0	.2	3.4	7.8	4.8	71	16.2
70/74	.0	.0	.0	.0	.0	.0	.2	.9	5	1.1
TOTAL	0	0	0	6	44	167	164	56	437	100.0
PCT	.0	.0	.0	1.4	10.1	38.2	37.5	12.8		

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	.2	.0	.0
.1	.1	.0	.6	.1	.0	.0	.0	.0	.0
2.5	3.1	2.7	3.2	.7	.0	.5	.6	.0	.2
13.0	11.8	13.4	18.4	4.0	1.4	1.5	3.5	.0	.9
1.0	1.8	2.9	5.3	2.4	1.1	.1	.7	.0	.9
.0	.0	.2	.1	.6	.1	.0	.0	.0	.2
16.6	16.9	19.2	27.5	7.8	2.6	2.1	5.1	.0	2.3

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	95	94	88	82	79	76	74	82.9	268
06&09	95	91	87	82	78	75	73	82.4	454
12&15	85	84	83	81	75	74	73	80.2	252
18&21	93	85	83	80	75	73	70	79.8	459
TOT	95	90	86	81	76	74	70	81.3	1433

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	2.8	21.3	30.6	35.2	10.2	77	108
06&09	.0	1.8	11.6	40.9	36.0	9.8	79	164
12&15	.0	.0	2.3	45.5	40.9	11.4	81	88
18&21	.0	.6	4.1	36.5	38.8	20.0	82	170
TOT	0	7	51	202	199	71	80	530

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PERIOD: (PRIMARY) 1905-1969
(OVER-ALL) 1857-1969

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.1	.2	3	.0	.3
9/10	.0	.0	.0	.0	.0	.1	.5	6	.0	.6
7/8	.0	.0	.0	.1	.4	.3	.0	8	.2	.6
6	.0	.0	.1	.0	.7	.3	.0	11	.0	1.0
5	.0	.0	.0	.0	.8	.1	.0	9	.0	.9
4	.0	.0	.0	1.3	1.6	.2	.0	33	.2	2.9
3	.0	.0	.1	1.1	2.6	.1	.0	41	.1	3.8
2	.0	.0	.6	6.0	2.1	.0	.0	91	.6	8.0
1	.0	.1	.8	11.2	1.4	.0	.0	142	1.4	12.0
0	.0	.0	3.3	14.0	.5	.0	.0	188	.6	17.2
-1	.0	.0	5.9	13.8	.2	.0	.0	210	.9	19.0
-2	.0	.1	6.4	4.0	.0	.0	.0	111	.5	10.0
-3	.0	.3	5.1	1.4	.0	.0	.0	72	.2	6.6
-4	.0	.6	3.8	.5	.0	.0	.0	51	.1	4.7
-5	.0	1.3	1.9	.1	.0	.0	.0	35	.0	3.3
-6	.0	1.2	.8	.1	.0	.0	.0	22	.1	2.0
-7/-8	.0	1.8	.2	.0	.0	.0	.0	21	.2	1.8
-9/-10	.1	.0	.1	.0	.0	.0	.0	2	.0	.2
TOTAL	1	57	306	566	107	12	7	1056	52	1004
PCT	.1	5.4	29.0	53.6	10.1	1.1	.7	100.0	4.9	95.1

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	6.9	.0	.0	.0	.0	6.9
3-4	.0	2.5	.0	.0	.0	.0	2.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	10.5	1.1	.0	.0	.0	11.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	1.1	.0	.0	.0	.0	2.5
1-2	.0	6.2	.4	.0	.0	.0	6.5
3-4	.0	.4	2.9	.0	.0	.0	3.3
5-6	.0	.0	1.4	.0	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.4	7.6	4.7	.0	.0	.0	13.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	6.2	.0	.0	.0	.0	7.6
1-2	.0	12.0	1.1	.0	.0	.0	13.0
3-4	.0	.0	6.9	.0	.0	.0	6.9
5-6	.0	1.4	2.2	1.1	.0	.0	4.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.4	19.6	10.1	1.1	.0	.0	32.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	8.7	2.9	.0	.0	.0	11.6
3-4	.0	2.9	4.7	.0	.0	.0	7.6
5-6	.0	.0	5.1	1.8	.0	.0	6.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	12.0	12.7	1.8	.0	.0	26.4

PERIOD: (OVER-ALL) 1963-1969

DECEMBER

TABLE 18 (CONT)

AREA 0002 CAIRNS
16.8S 145.7E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	2.2	1.4	.0	.0	.0	3.6
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	3.6	1.4	.0	.0	.0	5.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	1.4	.0	.0	.0	.0	.0	1.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.4	1.4	.0	.0	.0	.0	2.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.4	.0	.0	.0	1.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.0	1.4	.0	.0	.0	1.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.4	.0	.0	.0	.0	1.4	
1-2	.0	1.8	.0	.0	.0	.0	1.8	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.4	.0	.0	.0	.4	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	.0	3.3	.4	.0	.0	.0	3.6	97.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.6	12.3	.0	.0	.0	.0	21.9	
1-2	1.4	37.0	5.5	.0	.0	.0	43.8	
3-4	.0	5.5	15.1	.0	.0	.0	20.5	
5-6	.0	1.4	8.2	2.7	.0	.0	12.3	
7	.0	.0	1.4	.0	.0	.0	1.4	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	73
TOT PCT	11.0	56.2	30.1	2.7	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1969

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	15.3	28.6	17.3	6.1	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	2
6-7	.0	3.1	6.1	1.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	4
8-9	.0	2.0	1.0	1.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
10-11	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	2
12-13	.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	
INDET	9.2	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	0
TOTAL	24	35	24	8	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	98	2
PCT	24.5	35.7	24.5	8.2	6.1	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1897-1971
(OVER-ALL) 1897-1971

AREA 0002 CAIRNS
16.95 145.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.1	2.5	.8	.0	.0	.0	.1	5.4	.2	1.8	3.4	.0	.9	.0	88.5
NE	3.1	5.2	1.5	.0	.0	.0	.0	9.8	1.1	2.1	1.8	.0	.8	.0	84.8
E	3.2	7.0	1.1	.0	.0	.0	.0	11.3	.9	1.0	2.3	.0	1.2	.0	83.4
SE	4.4	11.1	.8	.0	.0	.0	.1	16.4	1.3	.4	2.1	.0	.5	.0	79.5
S	8.1	10.1	1.8	.0	.0	.0	.0	20.0	1.5	1.0	2.8	.0	.4	.0	74.9
SW	7.2	5.4	1.7	.0	.0	.0	.0	14.4	2.4	1.9	3.0	.0	1.6	.0	77.8
W	3.6	3.8	2.2	.0	.0	.0	.0	9.7	.7	5.2	4.3	.0	.7	.0	80.5
NW	3.4	1.9	2.0	.0	.0	.0	.0	7.3	.8	.8	2.9	.0	1.8	.0	86.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6	.5	.6	.0	.0	.0	.0	2.8	1.4	.6	.0	.0	3.6	.0	91.6
TOT PCT	4.5	8.2	1.1	.0	.0	.0	*	13.8	1.2	1.1	2.6	.0	.8	.0	80.8
TOT OBS:	7757														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.6	6.1	1.1	.0	.0	.0	.0	10.9	1.3	*	2.1	.0	1.1	.0	84.6
06&09	4.2	7.0	.8	.0	.0	.0	*	12.0	.7	.9	2.9	.0	.8	.0	83.1
12&15	5.7	8.3	1.4	.0	.0	.0	.0	15.4	1.6	3.1	2.2	.0	.8	.0	77.6
18&21	4.9	9.9	1.1	.0	.0	.0	.1	16.1	1.1	1.2	2.9	.0	.9	.0	78.4
TOT PCT	4.6	8.0	1.1	.0	.0	.0	*	13.6	1.1	1.2	2.6	.0	.9	.0	80.9
TOT OBS:	8866														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.0	4.9	.5	*	.0	.0		7.4	5.3	2.7	9.0	9.1	8.6	9.2	7.2	6.1	4.8
NE	1.7	4.6	.5	*	.0	.0		6.9	5.7	4.4	6.2	8.3	8.6	11.3	7.4	5.4	4.6
E	2.1	10.0	3.0	.2	*	.0		15.4	8.2	12.8	13.4	18.3	17.3	19.8	16.2	14.9	11.8
SE	3.5	22.6	13.9	1.8	*	.0		41.8	9.9	46.0	40.9	47.6	44.7	40.5	41.0	37.7	37.5
S	2.7	8.9	3.9	.4	*	.0		16.0	8.0	19.8	18.4	11.7	11.9	9.7	14.5	18.2	22.2
SW	1.1	2.5	.4	*	.0	.0		4.1	5.7	7.9	3.5	1.0	2.3	2.5	3.0	6.6	7.7
W	.6	1.2	.1	.0	.0	.0		1.9	5.3	.6	1.8	.3	.6	.5	2.2	3.5	3.8
NW	1.0	2.4	.3	*	.0	.0		3.6	5.5	2.9	3.7	1.9	3.2	1.0	4.4	4.4	5.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0							3.0	.0	3.3	3.2	1.9	2.9	5.3	4.0	3.2	2.3
TOT OBS							10899		8.2	307	1809	1842	1721	380	1518	1733	1589
TOT PCT	17.8	57.1	22.5	2.5	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.1	2.2	.1	.0	.0		7.4	5.3	8.1	8.8	7.5	5.5
NE	4.7	2.0	.2	.0	.0		6.9	5.7	6.0	8.4	8.3	5.0
E	7.3	7.0	1.1	*	.0		15.4	8.2	13.1	17.8	17.0	13.4
SE	13.2	22.4	5.9	.4	.0		41.8	9.9	41.6	46.2	40.9	37.6
S	7.4	6.7	1.7	.1	.0		16.0	8.0	18.6	11.8	13.6	20.2
SW	2.7	1.3	.1	.0	.0		4.1	5.7	4.3	1.6	3.0	7.2
W	1.4	.5	*	.0	.0		1.9	5.3	1.6	.5	1.9	3.7
NW	2.5	1.0	*	*	.0		3.6	5.5	3.6	2.5	3.7	4.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.0						3.0	.0	3.2	2.4	4.4	2.8
TOT OBS						10899		8.2	2116	3563	1898	3322
TOT PCT	47.3	43.1	9.1	.5	.0		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1897-1971
(OVER-ALL) 1857-1971

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.2	15.0	53.9	25.1	2.7	.1	.0	8.4	100.0	2116
06&09	2.4	14.1	59.8	21.2	2.4	.1	.0	8.2	100.0	3563
12&15	4.4	12.9	56.8	23.1	2.9	.0	.0	8.2	100.0	1898
18&21	2.8	16.4	56.5	22.0	2.4	.0	.0	8.0	100.0	3322
TOT								8.2		10899
PCT	3.0	14.8	57.1	22.5	2.5	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.5	1.4	1.4	.3		2.1
NE	3.3	2.2	2.3	.5		2.9
E	7.3	4.2	4.4	2.6		3.8
SE	13.8	10.8	13.3	6.0		4.1
S	4.6	2.7	4.3	2.1		4.5
SW	2.0	.6	1.0	.3		3.5
W	.4	.3	.2	.0		2.0
NW	1.1	.2	.7	.1		2.
VAR	.0	.0	.0	.0		.-
CALM	2.2	.5	.7	.1		2.1
TOT OBS					1271	3.8
TOT PCT	37.2	22.9	28.1	11.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.3	.3	.2	.1	.0	.0	.0	4.8	
NE	.0	.0	.0	.4	.8	.2	.1	.0	.0	.0	6.8	
E	.0	.0	.1	1.0	1.5	.6	.2	.2	.0	.1	14.7	
SE	.0	.0	.8	3.5	4.8	2.3	1.1	*	.0	.1	31.3	
S	.0	.0	.1	1.6	1.9	.7	.5	.1	.0	.1	8.8	
SW	.0	.0	.0	.1	.2	.1	.1	.0	.1	.0	3.2	
W	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.7	
NW	.0	.1	.0	.2	.1	.1	.1	.1	.0	.0	1.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.1	.1	.1	.0	.0	.1	2.9	
TOT OBS												1271
TOT PCT	.0	.1	1.0	7.3	9.6	4.3	2.2	.4	.1	.4	74.8	100.0

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 >500YD	* OR >0
* OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
* OR >5000	.8	.9	.9	.9	.9	.9	.9	.9
* OR >3500	2.5	2.7	2.8	3.0	3.0	3.0	3.0	3.0
* OR >2000	6.1	6.6	6.9	7.1	7.1	7.1	7.1	7.1
* OR >1000	13.6	15.6	16.3	16.6	16.6	16.6	16.6	16.6
* OR >600	17.8	22.1	23.2	23.7	23.7	23.7	23.7	23.7
* OR >300	18.4	23.0	24.2	24.7	24.7	24.7	24.7	24.7
* OR >150	18.4	23.0	24.2	24.8	24.8	24.8	24.8	24.8
* OR > 0	18.4	23.0	24.2	24.8	24.8	24.8	24.8	24.8

TOTAL NUMBER OF OBS: 1291

PCT FREQ NH <5/8: 75.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
11.9	20.1	17.8	15.2	9.4	6.5	6.7	5.4	7.1	.0	1404

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
1/2<1	PCP	.0	*	*	.2	.1	.1	.0	.0	.0	.0	.4	
	NO PCP	.4	.1	.2	.7	.6	.1	.1	.1	.0	.0	2.1	
	TOT %	.4	.1	.2	.8	.7	.2	.1	.1	.0	.0	2.5	
1<2	PCP	*	*	.1	.2	.1	*	*	*	.0	.0	.5	
	NO PCP	*	.1	.1	.2	.1	*	*	*	.0	.1	.5	
	TOT %	*	.1	.1	.4	.2	*	*	.1	.0	.1	1.0	
2<5	PCP	.0	.1	.1	.3	.1	.1	.0	.0	.0	*	.6	
	NO PCP	*	*	.1	.4	.2	*	*	.0	.0	.0	.8	
	TOT %	*	.1	.2	.7	.3	.1	*	.0	.0	*	1.4	
5<10	PCP	.3	.4	1.2	5.6	2.6	.4	.2	.2	.0	*	10.9	
	NO PCP	3.8	3.2	7.1	20.7	7.9	1.8	.8	1.6	.0	.6	47.5	
	TOT %	4.2	3.6	8.3	26.3	10.5	2.2	1.0	1.8	.0	.7	58.5	
10+	PCP	*	.1	.2	.6	.3	*	*	*	.0	*	1.3	
	NO PCP	2.5	2.5	5.7	14.2	5.3	1.8	.6	1.3	.0	1.2	35.2	
	TOT %	2.5	2.6	5.9	14.8	5.6	1.8	.7	1.3	.0	1.3	36.5	
	TOT OBS												7755
	TOT PCT	7.1	6.5	14.8	43.0	17.2	4.3	1.8	3.3	.0	2.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	*	*	.0	.0	.0	.0		*	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	*	*	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	*	*	.1	.1	.1	*	*	*	.0	.0	.4	
	4-10	.2	.1	.1	.5	.2	.1	.1	*	.0		1.2	
	11-21	*	*	*	.2	.2	*	.0	*	.0		.5	
	22+	.0	.0	.0	*	.1	.0	.0	.0	.0		.1	
	TOT %	.3	.1	.2	.7	.6	.1	.1	.1	.0	.0	2.2	
1<2	0-3	.0	*	*	.0	*	*	*	*	.0	.1	.2	
	4-10	*	.1	.1	.2	.1	*	*	*	.0		.5	
	11-21	.0	*	.1	.3	.1	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0		.1	
	TOT %	*	.1	.1	.5	.2	*	*	.1	.0	.1	1.2	
2<5	0-3	*	*	.0	*	*	*	*	*	.0	*	.1	
	4-10	*	.1	.1	.3	.2	*	.0	*	.0		.8	
	11-21	*	*	.1	.5	.1	*	*	*	.0		.9	
	22+	.0	*	*	.2	*	.0	.0	.0	.0		.2	
	TOT %	.1	.1	.2	1.0	.3	.1	*	*	.0	*	2.0	
5<10	0-3	1.1	.9	1.3	2.4	2.1	.7	.2	.4	.0	.7	9.7	
	4-10	2.3	1.9	4.7	12.6	4.9	1.1	.6	1.1	.0		29.2	
	11-21	.3	.3	1.3	6.8	1.9	.2	*	.1	.0		10.8	
	22+	*	*	.1	1.2	.3	.0	.0	.0	.0		1.6	
	TOT %	3.7	3.1	7.4	23.0	9.1	2.0	.8	1.6	.0	.7	51.3	
10+	0-3	.8	.6	.8	1.2	.7	.5	.3	.5	.0	1.9	7.2	
	4-10	2.3	2.3	4.8	9.0	3.8	1.4	.4	1.1	.0		25.0	
	11-21	.2	.2	1.3	6.9	1.7	.2	.1	.1	.0		10.7	
	22+	*	.0	.1	.3	.1	*	.0	*	.0		.5	
	TOT %	3.3	3.1	6.9	17.3	6.3	2.0	.8	1.7	.0	1.9	43.3	
	TOT OBS												9354
	TOT PCT	7.4	6.5	14.9	42.7	16.5	4.3	1.7	3.4	.0	2.7	100.0	

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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
00603	.0	.0	.9	6.2	10.9	5.4	2.6	.6	.3	.6	27.6	72.4	309
06609	.0	.0	1.0	6.2	6.1	3.6	2.2	.2	.0	.0	19.4	80.6	367
12615	.0	.0	.9	7.6	10.4	4.0	1.3	.0	.0	.6	24.9	75.1	375
18621	.0	.3	.7	7.5	8.9	2.9	2.0	.7	.0	.7	23.6	76.4	314
TOT													1365
PCT	.0	.1	.9	6.8	9.0	4.0	2.0	.4	.1	.4	23.6	76.4	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
00603	.1	2.0	1.1	1.3	46.3	49.1	1894
06609	*	2.4	1.4	2.5	54.8	38.8	3385
12615	.1	1.9	1.1	1.8	52.0	43.2	1937
18621	*	2.2	1.2	1.8	56.7	38.1	3257
TOT							10473
PCT	.1	2.2	1.2	1.9	53.2	41.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00603	.0	1.0	8.5	20.3	71.2	297
06609	.0	1.1	8.2	12.1	79.7	351
12615	.0	1.0	10.6	15.7	73.8	352
18621	.0	1.1	10.4	15.3	74.3	291
TOT						1291
PCT	.0	1.0	9.3	15.6	75.0	100.0

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
95/99	.0	.0	.0	*	.0	.0	.0	.0		*
90/94	.0	.0	.0	*	.1	.4	.1	*		.6
85/89	.0	.0	.1	.3	1.0	1.8	1.4	.4		5.0
80/84	.0	.0	.0	.4	3.8	12.7	11.5	3.9		32.3
75/79	.0	.0	.2	.6	2.8	13.3	11.1	7.0		35.0
70/74	.0	.0	.4	1.2	2.6	5.0	7.8	4.4		21.4
65/69	.0	.0	.3	.4	.6	1.0	1.8	1.2		5.3
60/64	.0	.0	.0	*	.1	.1	.1	.1		.4
TOTAL									3541	100.0
PCT	.0	.0	.0	2.9	11.1	34.2	33.7	17.2		

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	.0
	*	*	.2	.2	.1	*	.0	.0	.0	.0
	.9	.6	.9	1.4	.5	.1	.1	.3	.0	.2
	3.1	3.9	6.4	12.1	2.5	1.0	.7	1.7	.0	1.1
	2.2	2.4	6.4	15.3	4.7	1.1	.4	1.2	.0	1.2
	.7	.7	2.3	10.4	4.6	1.3	.2	.7	.0	.5
	.1	.1	.2	2.0	1.6	.7	.2	.3	.0	.1
	.0	.0	.0	.1	.1	*	*	.1	.0	.0
	7.0	7.7	16.3	41.5	14.1	4.3	1.7	4.2	.0	3.2

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	95	87	84	79		71	61	78.7	2202
06609	95	86	83	78	74	70	58	78.1	3818
12615	87	81	80	77	72	69	58	76.2	2156
18621	93	82	80	76	71	68	59	75.7	3693
TOT	95	85	82	77	72	69	58	77.1	11869

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
00603	.0	4.1	16.2	37.3	28.3	14.1	78	775
06609	.0	5.6	13.0	35.3	31.5	14.5	78	1168
12615	.0	3.3	8.5	34.2	38.1	15.9	80	745
18621	.0	2.0	7.2	30.7	36.9	23.2	82	1177
TOT	0	136	422	1344	1312	651	79	3865

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
11/13	.0	.0	.0	.0	.0	*	*	.1	*	9	.0	.1
9/10	.0	.0	.0	.1	*	*	.1	.1	*	25	.0	.4
7/8	.0	.0	*	.1	.1	.2	.2	.2	.0	55	*	.8
6	.0	.0	.0	.1	.2	.1	.2	.1	.0	62	*	.7
5	.0	.0	.1	.2	.5	.4	.2	.3	.0	121	*	1.7
4	.0	.0	.2	.4	.8	.8	.6	.1	.0	221	.2	2.6
3	.0	*	.1	.7	1.1	1.0	.8	*	.0	314	.2	3.6
2	.0	*	.6	1.5	2.6	3.1	.9	*	.0	643	.3	8.4
1	.0	.1	.6	2.5	4.1	4.0	.6	.0	.0	900	.5	11.4
0	.0	.2	1.6	4.9	6.8	6.1	.4	.0	.0	1514	.7	19.3
-1	.0	.2	1.9	3.9	6.0	4.5	.1	.0	.0	1278	.5	16.0
-2	.0	.4	2.3	3.9	4.9	2.5	*	.0	.0	998	.3	13.8
-3	*	.4	1.7	2.0	2.1	.8	.0	.0	.0	537	.1	7.0
-4	*	.7	1.3	1.4	1.9	.5	*	.0	.0	409	.1	5.6
-5	.1	.3	.9	.5	.7	.2	.0	.0	.0	208	*	2.6
-6	*	.4	.3	.3	.3	*	.0	.0	.0	107	*	1.3
-7/-8	.1	.3	.2	.4	.1	.1	.0	.0	.0	94	*	1.2
-9/-10	*	*	*	.1	*	.0	.0	.0	.0	17	.0	.3
-11/-13	*	*	.0	.0	.0	.0	.0	.0	.0	5	.0	.1
TOTAL										7518		
PCT	.3	3.1	11.8	23.0	32.3	24.4	4.2	.8	.1	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.3	.0	.0	.0	.0	1.6
1-2	.1	2.3	.1	.0	.0	.0	2.5
3-4	.0	.7	.4	.0	.0	.0	1.1
5-6	.0	.0	.1	.1	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.3	4.3	.8	.1	.0	.0	5.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.5	.0	.0	.0	.0	2.1
1-2	.1	4.0	.4	.0	.0	.0	4.5
3-4	.0	.4	.6	.0	.0	.0	1.0
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.7	5.9	1.3	.0	.0	.0	7.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	2.7	.1	.0	.0	.0	3.4
1-2	.1	6.9	1.3	.0	.0	.0	8.3
3-4	.0	2.4	3.0	.0	.0	.0	5.3
5-6	.0	.2	2.3	.1	.0	.0	2.6
7	.0	.0	.4	.1	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.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
TOT PCT	.7	12.2	7.1	.2	.0	.0	20.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.2	.6	.0	.0	.0	3.2
1-2	.3	10.7	4.8	.0	.0	.0	15.9
3-4	.1	4.2	11.0	.7	.0	.0	16.1
5-6	.0	.6	6.4	.4	.0	.0	7.3
7	.0	.0	1.3	.5	.0	.0	1.8
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.1	.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	.1	.0	.0	.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
TOT PCT	.9	17.7	24.4	1.6	.0	.0	44.7

ANNUAL

PERIOD: (OVER-ALL) 1963-1971

AREA 0002 CAIRNS
16.9S 145.9E

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.2	.1	.0	.0	.0	1.5
1-2	.3	2.9	2.2	.0	.0	.0	5.4
3-4	.0	1.1	3.0	.0	.0	.0	4.1
5-6	.0	.5	1.4	.1	.0	.0	2.0
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.5	5.8	7.2	.1	.0	.0	13.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.0	.0	.0	.0	.6
1-2	.1	1.6	.2	.0	.0	.0	1.9
3-4	.0	.3	.2	.0	.0	.0	.5
5-6	.0	.0	*	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.3	2.4	.4	.1	.0	.0	3.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.3	.1	.0	.0	.0	.4
3-4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.4	.2	.0	.0	.0	.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.5	.0	.0	.0	.0	.6	
1-2	.0	.8	.0	.0	.0	.0	.8	
3-4	.0	.0	.1	.0	.0	.0	.1	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	.1	1.3	.3	.0	.0	.0	1.7	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.6	9.9	.8	.0	.0	.0	17.3	
1-2	1.0	29.1	8.9	.0	.0	.0	39.1	
3-4	.1	8.9	18.1	.7	.0	.0	27.8	
5-6	.0	1.3	10.2	.7	.0	.0	12.1	
7	.0	.0	2.3	.6	.0	.0	2.9	
8-9	.0	.0	.3	.1	.0	.0	.4	
10-11	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.1	.0	.0	.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	
TOT PCT	7.8	49.2	40.9	2.1	.0	.0	100.0	927

PERIOD: (OVER-ALL) 1949-1971

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	10.9	31.0	19.6	6.7	.9	.3	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	861	2
6-7	.0	1.5	6.2	5.8	3.6	.3	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	227	5
8-9	.0	.3	.7	.2	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	5
10-11	.0	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
12-13	.0	.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDFT	7.6	.8	.9	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	120	1
TOTAL PCT	18.5	33.7	27.8	13.0	5.3	.9	.7	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1242 100.0	3

PERIOD: (PRIMARY) 1897-1971
(OVER-ALL) 1857-1971

AREA 0002 CAIRNS
16.95 145.9E

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	.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	8	.1
87/88	.9	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	18	.2
85/86	9.0	9.0	4.8	.6	.0	.0	.0	.0	.0	.1	.2	5.1	201	1.9
83/84	36.7	35.5	20.0	3.3	.7	.1	.1	.0	.0	.4	4.6	25.0	939	8.9
81/82	40.9	39.6	44.7	24.5	1.6	.4	.4	.1	1.2	6.2	28.3	50.7	1999	18.9
79/80	10.2	8.3	23.3	34.7	8.5	1.1	1.4	.3	6.5	25.2	42.3	16.7	1688	16.0
77/78	1.6	3.4	4.0	24.1	33.2	16.1	4.0	6.7	21.0	43.9	19.6	2.1	1678	15.9
75/76	.1	.7	2.8	10.4	33.1	23.7	14.4	17.0	33.3	18.4	3.7	.3	1446	13.7
73/74	.0	.4	.4	1.8	18.6	27.2	23.1	35.0	28.3	5.1	1.0	.1	1314	12.4
71/72	.0	.2	.0	.4	2.9	20.3	32.8	24.0	8.2	.7	.3	.0	802	7.6
69/70	.0	.0	.0	.2	1.0	7.9	16.5	13.7	1.3	.0	.1	.0	356	3.4
67/68	.0	.0	.0	.0	.3	2.8	5.7	2.5	.2	.0	.0	.0	98	.9
65/66	.0	.0	.0	.0	.2	.3	1.6	.6	.1	.0	.0	.0	24	.2
63/64	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	3	*
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
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	689	445	544	510	614	709	857	977	1348	1129	1447	1305	10574	100.0
MEAN	82.4	82.3	81.2	79.1	76.0	73.7	72.2	72.9	75.2	77.6	79.6	81.8	77.8	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1009	1009	1006	1007	1009	1008	1006	1008	1008	325
FEB	1009	1010	1006	1008	1008	1008	1006	1009	1008	323
MAR	1012	1010	1010	1005	1011	1010	1010	1009	1010	345
APR	1014	1013	1011	1012	1013	1013	1011	1012	1012	308
MAY	1016	1016	1014	1015	1015	1015	1014	1015	1015	354
JUN	1017	1017	1014	1015	1017	1016	1015	1016	1016	342
JUL	1019	1016	1015	1016	1017	1015	1015	1016	1016	437
AUG	1018	1015	1015	1015	1017	1017	1016	1014	1015	378
SEP	1017	1015	1014	1015	1016	1016	1015	1015	1015	318
OCT	1016	1015	1012	1013	1015	1014	1013	1014	1014	300
NOV	1013	1011	1010	1010	1012	1011	1010	1011	1011	568
DEC	1011	1009	1007	1008	1010	1009	1008	1009	1009	611
ANN	1014	1013	1011	1012	1013	1013	1012	1012	1012	4609
OBS	285	707	705	652	375	518	744	623		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	997	998	1001	1005	1007	1010	1013	1013	1014
FEB	996	999	1002	1006	1009	1011	1013	1013	1014
MAR	1000	1003	1004	1008	1010	1012	1014	1015	1016
APR	1004	1006	1008	1011	1012	1014	1016	1016	1017
MAY	1006	1007	1010	1013	1015	1017	1019	1019	1020
JUN	1007	1008	1011	1014	1016	1018	1020	1023	1024
JUL	1008	1008	1010	1014	1016	1018	1021	1022	1025
AUG	1005	1008	1009	1013	1016	1018	1020	1022	1024
SEP	1005	1008	1010	1013	1016	1018	1020	1020	1021
OCT	1004	1005	1008	1012	1014	1016	1019	1020	1021
NOV	1003	1005	1006	1009	1011	1013	1016	1018	1019
DEC	1000	1002	1004	1006	1009	1011	1013	1015	1016

JANUARY

PERIOD: (PRIMARY) 1918-1971
(OVER-ALL) 1883-1971

AREA 0003 CUMBERLAND ISLANDS
19.7S 148.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	6.3	3.2	.0	.0	.0	.0	.0	9.5	.0	3.2	.0	.0	6.3	.0	81.0
NE	3.9	7.2	2.2	.0	.0	.0	.0	13.3	.3	5.0	4.4	.0	2.5	.0	75.6
E	4.6	4.2	2.5	.0	.0	.0	.0	11.4	3.8	2.1	.8	.0	1.5	.0	82.1
SE	4.1	14.8	1.4	.0	.0	.0	.0	20.3	.2	1.7	1.4	.0	2.1	.0	75.7
S	.0	14.0	.0	.0	.0	.0	.0	14.0	.0	.0	9.3	.0	.0	.0	76.7
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	3.2	3.2	.0	.0	.0	.0	.0	6.5	.0	.0	.0	.0	3.2	.0	90.3
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	10.0	.0	90.0
TOT PCT	4.0	7.8	1.5	.0	.0	.0	.0	13.3	1.1	2.3	1.7	.0	2.5	.0	80.1
TOT OBS:	473														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.8	7.1	.0	.0	.0	.0	.0	8.9	2.7	.0	1.8	.0	.9	.0	85.7
06&09	4.2	6.3	3.5	.0	.0	.0	.0	14.1	.0	2.1	2.1	.0	4.9	.0	77.5
12&15	4.8	9.6	1.2	.0	.0	.0	.0	15.7	.0	7.2	2.4	.0	1.2	.0	75.9
18&21	5.3	10.5	1.3	.0	.0	.0	.0	17.1	1.3	1.3	2.0	.0	2.0	.0	77.6
TOT PCT	4.1	8.4	1.6	.0	.0	.0	.0	14.1	1.0	2.2	2.0	.0	2.5	.0	79.1
TOT OBS:	489														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.6	8.1	2.2	.0	.1	.0		12.0	7.6	3.8	7.9	12.3	13.9	7.5	14.1	13.4	16.5
NE	4.3	9.7	2.4	.1	.0	.0		16.5	6.9	10.3	14.2	15.5	23.9	12.5	18.6	14.2	18.2
E	3.1	11.5	9.8	1.5	.0	.0		25.9	10.6	27.7	26.4	30.9	22.6	43.1	24.4	25.0	18.2
SE	2.5	11.1	11.9	3.3	.3	.0		29.0	12.6	39.1	28.4	30.2	28.9	31.3	26.3	28.0	26.4
S	.2	1.3	.9	.1	.0	.0		2.6	10.9	8.2	5.6	2.5	.5	.0	1.3	1.3	2.4
SW	.6	.6	.3	.0	.0	.0		1.5	6.2	.0	2.3	.9	1.1	.0	1.3	.9	3.8
W	.2	1.7	.1	.0	.0	.0		2.0	6.5	3.8	3.4	.0	.0	1.9	1.9	2.2	3.8
NW	1.7	4.9	1.6	.0	.0	.0		8.2	7.0	7.1	10.1	5.0	7.9	1.3	9.6	12.5	7.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0	.0	1.8	2.7	1.1	2.5	2.6	2.6	3.8
TOT OBS	116	343	205	35	3	0	702		9.5	46	111	110	95	40	78	116	106
TOT PCT	16.5	48.9	29.2	5.0	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.6	5.1	.2	.0	.1		12.0	7.6	6.7	13.0	11.9	14.9
NE	9.1	6.5	.8	.0	.0		16.5	6.9	13.1	19.4	16.5	16.1
E	8.0	13.1	4.5	.3	.0		25.9	10.6	26.8	27.1	30.7	21.7
SE	6.9	13.3	7.5	1.3	.0		29.0	12.6	31.5	29.6	28.0	27.3
S	.6	1.6	.2	.1	.0		2.6	10.9	6.4	1.6	.8	1.8
SW	1.0	.5	.0	.0	.0		1.5	6.2	1.6	1.0	.8	2.3
W	1.1	.9	.0	.0	.0		2.0	6.5	3.5	.0	1.9	2.9
NW	5.0	2.7	.5	.0	.0		8.2	7.0	9.2	6.3	6.8	9.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.3						2.3	.0	1.3	2.0	2.5	3.2
TOT OBS	285	307	97	12	1	702		9.5	157	205	118	222
TOT PCT	40.6	43.7	13.8	1.7	.1		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	1.3	19.1	49.7	26.1	3.2	.6	.0	8.7	100.0	157
06&09	2.0	16.6	44.4	31.2	5.9	.0	.0	9.7	100.0	205
12&15	2.5	9.3	43.2	37.3	7.6	.0	.0	11.0	100.0	118
18&21	3.2	11.3	55.4	25.2	4.1	.9	.0	9.1	100.0	222
TOT	16	100	343	205	35	3	0	9.5		702
PCT	2.3	14.2	48.9	29.2	5.0	.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.3	1.5	2.6	2.0		4.4
NE	5.3	3.0	3.1	1.4		3.8
E	9.5	8.6	10.0	5.4		4.3
SE	4.3	11.2	12.2	2.1		4.3
S	.0	.7	1.3	1.3		6.6
SW	.0	.0	.0	1.3		8.0
W	.0	1.0	2.5	.0		5.4
NW	.7	1.8	1.2	1.3		4.9
VAR	.0	.0	.0	.0		.0
CALM	.7	.0	.7	.0		4.5
TOT OBS	36	42	51	23	152	4.4
TOT PCT	23.7	27.6	33.6	15.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.7	1.0	.0	.0	.5	.0	7.2	
NE	.0	.0	.0	.8	1.3	.7	.0	.0	.2	.7	9.4	
E	.0	.0	.0	.5	3.6	.7	2.6	.5	.0	.7	25.0	
SE	.0	.0	.0	3.3	1.0	2.6	.0	.2	.0	.0	22.7	
S	.0	.0	.0	.7	.7	.0	.7	.0	.0	.0	1.3	
SW	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	.0	
W	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	3.0	
NW	.0	.0	.0	.0	.7	.5	.0	.0	.0	.7	3.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	
TOT OBS	0	0	0	8	12	9	6	3	1	3	110	152
TOT PCT	.0	.0	.0	5.3	7.9	5.9	3.9	2.0	.7	2.0	72.4	100.0

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 >50YD	= OR >0
= OR >6500	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
= OR >5000	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
= OR >3500	7.9	8.6	8.6	8.6	8.6	8.6	8.6	8.6
= OR >2000	13.2	14.5	14.5	14.5	14.5	14.5	14.5	14.5
= OR >1000	20.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
= OR >600	23.0	27.6	27.6	27.6	27.6	27.6	27.6	27.6
= OR >300	23.0	27.6	27.6	27.6	27.6	27.6	27.6	27.6
= OR >150	23.0	27.6	27.6	27.6	27.6	27.6	27.6	27.6
= OR > 0	23.0	27.6	27.6	27.6	27.6	27.6	27.6	27.6
TOTAL	35	42	42	42	42	42	42	42

TOTAL NUMBER OF OBS: 152

PCT FREQ NH <5/8: 72.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.3	15.7	19.7	16.3	13.5	9.6	5.6	5.6	6.7	.0	178

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	1.3	.4	.6	.2	.0	.0	.0	.0	.0	2.5	
	TOT %	.0	1.7	.4	.6	.2	.0	.0	.0	.0	.0	3.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	.0	.0	.5	.2	.0	.0	.2	.0	.2	1.3	
	TOT %	.2	.0	.0	.5	.2	.0	.0	.2	.0	.2	1.3	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.2	.0	.8	.0	.0	.0	.0	.0	.0	1.1	
	TOT %	.0	.2	.0	.8	.0	.0	.0	.0	.0	.0	1.1	
5<10	PCP	.7	1.9	2.6	5.6	.1	.0	.0	.2	.0	.0	11.2	
	NO PCP	3.5	5.2	5.9	9.5	.7	.4	.5	1.5	.0	.6	27.9	
	TOT %	4.2	7.1	8.5	15.1	.8	.4	.5	1.7	.0	.6	39.1	
10+	PCP	.2	.2	.2	.6	.2	.0	.0	.2	.0	.0	1.7	
	NO PCP	5.3	9.8	15.9	13.0	.8	1.7	1.6	4.4	.0	1.3	53.9	
	TOT %	5.5	10.0	16.1	13.6	1.1	1.7	1.6	4.7	.0	1.3	55.6	
	TOT OBS												473
	TOT PCT	10.0	19.0	25.1	30.7	2.3	2.1	2.2	6.6	.0	2.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.3	.2	.2	.2	.0	.0	.0	.0	.0	.9	
	4-10	.0	.7	.0	.3	.0	.0	.0	.0	.0		1.0	
	11-21	.0	.3	.2	.0	.0	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	1.4	.3	.5	.2	.0	.0	.0	.0	.0	2.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.0	.2	.1	.0	.0	.0	.0		.3	
	11-21	.2	.0	.0	.2	.0	.0	.0	.2	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.4	.1	.0	.0	.2	.0	.2	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.2	.2	.3	.0	.0	.0	.0	.0		.7	
	11-21	.1	.0	.2	.7	.0	.0	.0	.1	.0		1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.2	.3	1.0	.0	.0	.0	.1	.0	.2	1.9	
5<10	0-3	.3	1.3	1.0	1.5	.0	.0	.2	.4	.0	.5	5.3	
	4-10	2.3	4.2	3.1	6.1	.3	.2	.3	.6	.0		17.2	
	11-21	.7	.7	2.6	4.5	.5	.2	.0	.7	.0		9.8	
	22+	.2	.1	.9	1.4	.0	.0	.0	.0	.0		2.6	
	TOT %	3.5	6.2	7.7	13.5	.9	.3	.5	1.7	.0	.5	34.8	
10+	0-3	1.1	2.5	2.1	1.1	.1	.7	.1	1.4	.0	1.5	10.6	
	4-10	5.4	5.7	6.6	4.8	.8	.5	1.7	3.5	.0		29.0	
	11-21	1.0	1.1	7.4	6.8	.4	.2	.1	.8	.0		17.8	
	22+	.0	.0	.6	1.7	.2	.0	.0	.0	.0		2.4	
	TOT %	7.6	9.3	16.6	14.4	1.5	1.4	1.9	5.7	.0	1.5	59.9	
	TOT OBS												583
	TOT PCT	11.4	17.1	25.0	29.8	2.7	1.7	2.4	7.6	.0	2.4	100.0	

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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
00&03	.0	.0	.0	4.3	10.6	6.4	8.5	.0	2.1	.0	31.9	68.1	47
06&09	.0	.0	.0	2.2	2.2	6.5	4.3	2.2	.0	2.2	19.6	80.4	46
12&15	.0	.0	.0	5.1	5.1	7.7	.0	.0	.0	.0	17.9	82.1	39
18&21	.0	.0	.0	7.7	10.3	.0	.0	5.1	.0	5.1	28.2	71.8	39
TOT	0	0	0	8	12	9	6	3	1	3	42	129	171
PCT	.0	.0	.0	4.7	7.0	5.3	3.5	1.8	.6	1.8	24.6	75.4	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
00&03	.0	2.2	.7	.7	31.6	64.7	136
06&09	.0	4.2	1.8	1.2	34.5	58.3	168
12&15	.0	2.1	.0	3.1	35.1	59.8	97
18&21	.0	2.0	1.0	2.5	39.9	54.5	198
TOT	0	16	6	11	214	352	599
PCT	.0	2.7	1.0	1.8	35.7	58.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	4.7	30.2	65.1	43
06&09	.0	.0	2.5	20.0	77.5	40
12&15	.0	.0	5.9	14.7	79.4	34
18&21	.0	.0	8.6	22.9	68.6	35
TOT	0	0	8	34	110	152
PCT	.0	.0	5.3	22.4	72.4	100.0

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
90/94	.0	.0	.0	.9	.3	.3	.0	.0	5	1.5
85/89	.0	.3	.0	1.8	3.1	5.2	2.4	3.4	53	16.2
80/84	.0	.0	.0	.0	8.9	23.9	24.5	9.2	217	66.4
75/79	.0	.0	.0	.0	.9	4.9	4.6	5.5	52	15.9
TOTAL	0	1	0	9	43	112	103	59	327	100.0
PCT	.0	.3	.0	2.8	13.1	34.3	31.5	18.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.3	.4	.5	.0	.0	.0	.3	.0	.0	.0
	2.2	3.0	2.7	3.4	.3	1.5	.5	1.9	.0	.6
	8.4	12.7	16.9	17.4	1.1	.9	2.0	5.1	.0	1.8
	1.1	2.4	4.1	4.7	.6	.6	.3	1.5	.0	.6
	12.0	18.5	24.2	25.5	2.0	3.1	3.1	8.6	.0	3.1

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	92	91	88	82	78	75	74	82.4	150
06&09	92	90	87	82	78	75	75	82.2	204
12&15	88	83	83	80	77	75	75	80.3	118
18&21	89	86	84	80	76	74	74	80.2	228
TOT	92	90	87	81	77	75	74	81.3	700

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	3.6	15.7	28.9	30.1	21.7	79	83
06&09	.0	5.6	20.0	33.3	27.8	13.3	77	90
12&15	.0	1.9	9.4	37.7	37.7	13.2	79	53
18&21	.0	.9	6.2	35.4	34.5	23.0	82	113
TOT	0	10	43	114	109	63	80	339

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.3	1	.0	.3
7/8	.0	.0	.0	.3	.0	1	.0	.3
6	.0	.0	.3	.9	.0	4	.0	1.2
5	.0	.3	.0	1.2	.0	5	.0	1.5
4	.0	.3	.9	2.0	.0	11	.0	3.2
3	.0	.0	2.0	2.6	.0	16	.0	4.7
2	.0	1.2	3.5	1.2	.0	20	.6	5.2
1	.0	3.5	9.9	1.5	.0	51	.3	14.6
0	.3	6.4	14.6	.6	.0	75	1.2	20.7
-1	.0	9.0	8.7	.3	.0	62	.0	18.1
-2	.0	6.4	4.4	.3	.0	38	.3	10.8
-3	.0	5.2	1.5	.0	.0	23	.3	6.4
-4	.3	3.5	1.5	.0	.0	18	.3	5.0
-5	.9	2.3	.3	.0	.0	12	.0	3.5
-6	.0	.6	.0	.0	.0	2	.0	.6
-7/-8	.0	.6	.0	.0	.0	2	.0	.6
-9/-10	.3	.3	.0	.0	.0	2	.0	.6
TOTAL	6		163		1		10	333
		136		37		343		
PCT	1.7	39.7	47.5	10.8	.3	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.6	.0	.0	.0	.0	3.6
1-2	1.4	1.8	.8	.0	.0	.0	4.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.6	.0	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.4	5.4	2.4	.0	.0	.0	9.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.0	.0	.0	.0	.0	2.8
1-2	1.6	3.4	1.6	.0	.0	.0	6.7
3-4	.0	1.8	.2	.0	.0	.0	2.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	2.4	7.3	1.8	.0	.0	.0	11.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.0	5.4	5.2	.0	.0	.0	10.7
3-4	.0	4.8	8.3	.0	.0	.0	13.1
5-6	.0	.0	7.7	.0	.0	.0	7.7
7	.0	.0	1.6	.0	.0	.0	1.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	11.1	22.8	.0	.0	.0	33.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.7	2.0	.0	.0	.0	8.7
3-4	.0	2.2	6.0	.0	.0	.0	8.3
5-6	.0	.8	7.7	.0	.0	.0	8.5
7	.0	.0	1.6	.8	.0	.0	2.4
8-9	.0	.0	1.6	.0	.0	.0	1.6
10-11	.0	.0	.8	.8	.0	.0	1.6
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
TOT PCT	.0	9.7	19.8	1.6	.0	.0	31.0

PERIOD: (OVER-ALL) 1963-1971

JANUARY

TABLE 18 (CONT)

AREA 0003 CUMBERLAND ISLANDS
19.7S 148.2E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.8	.8	.0	.0	.0	1.6
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.8	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.8	.8	.8	.0	.0	2.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.8	.0	.0	.0	.8
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.0	.8	.0	.0	.0	.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	1.6	.6	.0	.0	.0	2.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	2.2	.6	.0	.0	.0	2.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	
1-2	1.0	1.2	1.0	.0	.0	.0	3.2	
3-4	.0	.0	1.6	.0	.0	.0	1.6	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	1.0	2.2	2.6	.0	.0	.0	5.8	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.2	8.1	.0	.0	.0	.0	11.3	
1-2	4.0	21.0	12.9	.0	.0	.0	37.9	
3-4	.0	8.9	16.1	.0	.0	.0	25.0	
5-6	.0	.8	16.9	.0	.0	.0	17.7	
7	.0	.0	3.2	1.6	.0	.0	4.8	
8-9	.0	.0	1.6	.0	.0	.0	1.6	
10-11	.0	.0	.8	.8	.0	.0	1.6	
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	
								124
TOT PCT	7.3	38.7	51.6	2.4	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1971

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	7.3	22.0	20.7	9.3	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	3
6-7	.0	.7	4.0	7.3	2.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	5
8-9	.0	.7	.7	1.3	3.3	.0	4.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	8
10-11	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
12-13	.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	
INDET	4.7	2.0	2.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	2
TOTAL	18	38	42	31	11	3	6	1	0	0	0	0	0	0	0	0	0	0	0	150	4
PCT	12.0	25.3	28.0	20.7	7.3	2.0	4.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1922-1969
(OVER-ALL) 1883-1969

AREA 0003 CUMBERLAND ISLANDS
19.7S 148.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	5.0	4.0	.0	.0	.0	.0	9.0	.0	5.0	4.0	.0	.0	.0		82.0
NE	6.7	12.5	.0	.0	.0	.0	.0	19.2	.0	4.2	.0	.0	.0	.0		76.7
E	4.5	5.6	3.7	.0	.0	.0	.0	13.9	.0	1.5	3.0	.0	1.9	.0		79.8
SE	8.6	9.3	4.2	.0	.0	.0	.0	22.1	1.5	.8	.8	.0	2.1	.0		72.8
S	11.5	9.2	12.2	.0	.0	.0	.0	32.8	.0	.0	.0	.0	3.1	.0		64.1
SW	.0	22.2	.0	.0	.0	.0	.0	22.2	.0	.0	.0	.0	22.2	.0		55.6
W	.0	18.2	.0	.0	.0	.0	.0	18.2	.0	.0	.0	.0	.0	.0		81.8
NW	.0	.0	4.5	.0	.0	.0	.0	4.5	.0	2.3	.0	.0	.0	.0		93.2
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	.0	.0		100.0
TOT PCT	6.2	8.0	4.3	.0	.0	.0	.0	18.5	.6	1.5	1.2	.0	1.9	.0		76.2
TOT OBS:	324															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	4.4	4.4	7.4	.0	.0	.0	.0	16.2	.0	.0	.0	.0	5.9	.0		77.9
06609	6.5	8.6	3.2	.0	.0	.0	.0	18.3	1.1	1.1	.0	.0	.0	.0		79.6
12615	8.5	12.9	.0	.0	.0	.0	.0	21.4	.0	4.3	4.3	.0	1.4	.0		68.6
18621	6.0	7.0	6.0	.0	.0	.0	.0	19.0	1.0	1.0	1.0	.0	2.0	.0		76.0
TOT PCT	6.3	8.2	4.2	.0	.0	.0	.0	18.7	.6	1.5	1.2	.0	2.1	.0		75.8
TOT OBS:	331															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.2	6.0	1.6	.1	.0	.0		9.9	7.3	10.7	12.2	8.0	9.1	7.6	13.1	11.1	7.0
NE	.6	8.3	1.9	.1	.0	.0		10.9	8.3	9.3	12.8	6.0	17.1	29.5	15.6	6.3	3.2
E	1.7	13.6	6.7	1.5	.0	.0		23.5	10.4	24.3	18.1	30.7	25.4	22.0	21.3	25.0	20.6
SE	2.3	12.5	17.4	4.8	.2	.0		37.3	13.1	22.9	39.6	39.3	36.5	29.5	34.4	37.5	45.6
S	.3	3.6	2.9	1.3	.2	.0		8.3	13.5	20.7	6.6	5.3	6.3	6.8	6.6	8.0	10.8
SW	.2	.9	.0	.0	.0	.0		1.1	6.2	.7	2.8	1.3	.0	.8	.0	1.1	1.3
W	.2	1.2	.0	.1	.0	.0		1.5	7.7	2.9	1.4	.7	.0	.0	2.5	1.7	2.5
NW	1.2	4.3	.6	.1	.0	.0		6.2	6.7	5.7	6.6	7.3	5.6	3.8	4.9	7.1	6.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0	2.9	.0	1.3	.0	.0	1.6	2.3	2.5
TOT OBS	51	255	157	41	2	0	506		10.7	35	72	75	63	33	61	88	79
TOT PCT	10.1	50.4	31.0	8.1	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.6	4.9	.3	.0	.0		9.9	7.3	11.7	8.5	11.2	9.1
NE	4.5	5.6	.7	.0	.0		10.9	8.3	11.7	11.1	20.5	4.8
E	6.1	13.9	3.1	.4	.0		23.5	10.4	20.1	28.3	21.5	22.9
SE	7.3	17.6	11.6	.8	.0		37.3	13.1	34.1	38.0	32.7	41.3
S	1.9	3.7	2.1	.5	.0		8.3	13.5	11.2	5.8	6.6	9.3
SW	.6	.5	.0	.0	.0		1.1	6.2	2.1	.7	.3	1.2
W	.6	.8	.1	.0	.0		1.5	7.7	1.9	.4	1.8	2.1
NW	3.8	2.4	.1	.0	.0		6.2	6.7	6.3	6.5	4.5	6.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	.9	.7	1.1	2.4
TOT OBS	156	250	91	9	0	506		10.7	107	136	94	167
TOT PCT	30.8	49.4	18.0	1.8	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.9	13.1	52.3	24.3	8.4	.9	.0	9.9	100.0	107
06&09	.7	8.0	47.1	36.2	8.0	.0	.0	11.2	100.0	138
12&15	1.1	6.4	52.1	31.9	7.4	1.1	.0	11.2	100.0	94
18&21	2.4	7.8	50.9	30.5	8.4	.0	.0	10.4	100.0	167
TOT	7	44	255	157	41	2	0	10.7		506
PCT	1.4	8.7	50.4	31.0	8.1	.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.1	1.5	3.0	.0		3.1
NE	6.0	1.5	3.6	1.7		3.5
E	9.8	9.6	3.6	.9		3.2
SE	6.4	7.9	9.6	5.1		4.6
S	2.1	5.1	2.1	3.4		4.6
SW	.4	.0	.0	.0		1.0
W	.9	.0	.0	.9		5.0
NW	3.6	.9	2.8	.0		3.2
VAR	.0	.0	.0	.0		.0
CALM	1.7	.9	.9	.0		2.5
TOT OBS	41	32	30	14	117	3.8
TOT PCT	35.0	27.4	25.6	12.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	7.9	
.0	.0	.0	.9	.9	.2	.0	.0	.0	.0	10.9	
.0	.0	.0	.9	2.1	.9	.0	.0	.0	.0	20.1	
.0	.0	1.1	1.7	3.6	1.7	.9	.0	.0	.0	20.1	
.0	.0	.6	.9	1.9	.9	.0	.0	.0	.0	8.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	2.6	
0	0	2	5	10	5	2	0	0	0	93	117
.0	.0	1.7	4.3	8.5	4.3	1.7	.0	.0	.0	79.5	100.0

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 >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
= OR >2000	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
= OR >1000	12.7	13.6	14.4	14.4	14.4	14.4	14.4	14.4
= OR >600	15.3	16.9	18.6	18.6	18.6	18.6	18.6	18.6
= OR >300	15.3	17.8	20.3	20.3	20.3	20.3	20.3	20.3
= OR >150	15.3	17.8	20.3	20.3	20.3	20.3	20.3	20.3
= OR > 0	15.3	17.8	20.3	20.3	20.3	20.3	20.3	20.3
TOTAL	18	21	24	24	24	24	24	24

TOTAL NUMBER OF OBS: 118

PCT FREQ NH <5/8: 79.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.5	29.1	22.8	13.4	7.9	6.3	2.4	3.9	8.7	.0	127

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.6	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.2	.8	.3	.3	.0	.0	.0	.0	1.5	
	TOT %	.0	.0	.2	.8	.3	.3	.0	.0	.0	.0	1.5	
2<5	PCP	.0	.3	.3	.5	.5	.0	.0	.0	.0	.0	1.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.3	.3	.5	.5	.0	.0	.0	.0	.0	1.5	
5<10	PCP	.2	1.4	1.7	5.9	1.7	.3	.3	.0	.0	.0	11.4	
	NO PCP	2.3	2.0	5.4	13.7	2.0	.3	.8	3.4	.0	.6	30.6	
	TOT %	2.5	3.4	7.1	19.6	3.7	.6	1.1	3.4	.0	.6	42.0	
10+	PCP	.5	.1	.8	2.3	1.2	.0	.0	.3	.0	.0	5.2	
	NO PCP	4.4	5.5	12.2	17.1	4.5	.5	.6	3.1	.0	1.2	49.1	
	TOT %	4.9	5.6	13.0	19.4	5.6	.5	.6	3.4	.0	1.2	54.3	
	TOT OBS												324
	TOT PCT	7.7	9.3	20.6	40.6	10.1	1.4	1.7	6.8	.0	1.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.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	
	4-10	.2	.0	.0	.2	.0	.0	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.2	.2	.2	.0	.0	.0		.7	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	22+	.0	.0	.5	.5	.0	.0	.0	.0	.0		1.0	
	TOT %	.0	.0	.5	.9	.4	.2	.0	.0	.0	.0	2.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.2	.1	.4	.0	.0	.4	.0		1.2	
	11-21	.1	.2	.1	.4	.0	.0	.0	.1	.0		1.0	
	22+	.0	.0	.1	.4	.0	.0	.0	.0	.0		.5	
	TOT %	.2	.2	.5	.9	.4	.0	.0	.5	.0	.0	2.7	
5<10	0-3	.4	.2	.5	1.6	.2	.0	.0	1.0	.0	.5	4.5	
	4-10	1.4	1.7	2.2	4.4	.9	.5	.7	2.0	.0		13.9	
	11-21	.4	.9	3.2	9.5	1.4	.0	.0	.0	.0		15.4	
	22+	.1	.1	.9	3.1	1.0	.0	.1	.1	.0		5.5	
	TOT %	2.2	3.0	6.8	18.6	3.6	.5	.9	3.1	.0	.5	39.2	
10+	0-3	1.0	.4	1.3	.8	.0	.2	.2	.5	.0	1.2	5.7	
	4-10	3.1	5.6	10.5	6.6	2.4	.1	.5	2.4	.0		31.3	
	11-21	.9	.5	3.4	9.9	1.6	.0	.0	.4	.0		16.6	
	22+	.0	.1	.2	1.1	.7	.0	.0	.0	.0		2.0	
	TOT %	5.0	6.6	15.4	18.4	4.7	.4	.7	3.2	.0	1.2	55.6	
	TOT OBS												403
	TOT PCT	7.7	9.8	23.2	39.0	9.0	1.1	1.6	6.8	.0	1.7	100.0	

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PERIOD: (PRIMARY) 1922-1969
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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
00&03	.0	.0	.0	5.7	2.9	2.9	2.9	.0	.0	.0	14.3	85.7	35
06&09	.0	.0	6.7	3.3	3.3	3.3	3.3	.0	.0	.0	20.0	80.0	30
12&15	.0	.0	.0	3.0	18.2	6.1	.0	.0	.0	.0	27.3	72.7	33
18&21	.0	.0	.0	3.8	7.7	3.8	.0	.0	.0	.0	15.4	84.6	26
TOT	0	0	2	5	10	5	2	0	0	0	24	100	124
PCT	.0	.0	1.6	4.0	8.1	4.0	1.6	.0	.0	.0	19.4	80.6	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
00&03	.0	.0	4.5	3.4	22.7	69.3	88
06&09	.0	.9	.9	2.7	41.8	53.6	110
12&15	.0	1.3	3.8	3.8	39.7	51.3	78
18&21	.0	.0	1.5	1.5	48.5	48.5	134
TOT	0	2	10	11	162	225	410
PCT	.0	.5	2.4	2.7	39.5	54.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	5.9	8.8	85.3	34
06&09	.0	6.7	10.0	10.0	80.0	30
12&15	.0	.0	6.5	22.6	71.0	31
18&21	.0	.0	4.3	13.0	82.6	23
TOT	0	2	8	16	94	118
PCT	.0	1.7	6.8	13.6	79.7	100.0

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
90/94	.0	.0	.0	.4	1.1	.0	.0	.0	4	1.5
85/89	.0	.0	.0	.0	2.9	3.7	4.4	1.1	33	12.1
80/84	.0	.0	.0	.4	8.1	22.1	25.4	10.7	181	66.5
75/79	.0	.0	.0	.0	.4	6.6	4.8	7.4	52	19.1
70/74	.0	.0	.0	.0	.0	.0	.0	.7	2	.7
TOTAL	0	0	0	2	34	88	94	54	272	100.0
PCT	.0	.0	.0	.7	12.5	32.4	34.6	19.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.2	.6	.0	.4	.0	.4	.0	.0
1.6	.1	2.8	4.5	1.2	.0	.4	1.7	.0	.0
5.6	7.4	16.2	22.1	6.8	.9	1.3	5.5	.0	.7
.2	1.3	3.2	11.6	1.7	.0	.0	.0	.0	1.1
.0	.0	.0	.6	.2	.0	.0	.0	.0	.0
7.4	8.8	22.3	39.2	9.9	1.3	1.7	7.5	.0	1.8

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	90	87	82	77	75	75	82.4	102
06&09	90	89	87	82	76	76	75	82.0	135
12&15	84	83	83	80	76	75	75	80.3	93
18&21	88	87	84	80	76	74	71	80.0	165
TOT	91	89	86	81	76	74	71	81.1	495

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	1.8	17.9	42.9	23.2	14.3	77	56
06&09	.0	1.3	23.8	37.5	23.8	13.8	77	80
12&15	.0	.0	3.4	31.0	37.9	27.6	83	58
18&21	.0	.0	3.6	22.9	49.4	24.1	84	83
TOT	0	2	34	91	95	55	80	277

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.4	.0	1	.0	.4
7/8	.0	.0	.4	.0	1.3	4	.0	1.7
6	.0	.0	.0	.4	.9	3	.0	1.3
5	.0	.4	.9	.4	.0	4	.0	1.7
4	.0	.4	.9	2.6	.0	9	.0	3.9
3	.0	.0	7.6	3.9	.0	15	.0	6.4
2	.0	3.0	3.9	1.7	.0	20	.0	8.6
1	.0	1.3	13.3	1.3	.0	37	.4	15.5
0	.0	3.4	14.2	1.3	.0	44	.4	18.5
-1	.4	4.7	8.6	.0	.0	32	.0	13.7
-2	1.3	8.2	6.9	.0	.0	38	.4	15.9
-3	.4	3.9	2.1	.4	.0	16	.0	6.9
-4	.0	2.1	.4	.0	.0	6	.0	2.6
-5	.0	.4	.4	.0	.0	2	.0	.9
-6	.0	.9	.0	.0	.0	2	.0	.9
TOTAL	5	67	127	29	5	233	3	230
PCT	2.1	28.8	54.5	12.4	2.1	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	1.0	.0	.0	.0	.0	2.4
1-2	1.4	7.5	1.4	.0	.0	.0	10.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	2.7	8.6	1.4	.0	.0	.0	12.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.7	.0	.0	.0	.0	1.7
1-2	.0	6.8	.0	.0	.0	.0	6.8
3-4	.0	1.4	1.4	.0	.0	.0	2.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	9.9	1.4	.0	.0	.0	11.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.4	.0	.0	.0	.0	2.4
1-2	1.4	4.8	3.4	.0	.0	.0	9.6
3-4	.0	1.4	2.4	.0	.0	.0	3.8
5-6	.0	.0	1.0	.0	.0	.0	1.0
7	.0	1.0	.0	.0	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	1.4	.0	.0	.0	1.4
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
TOT PCT	2.4	8.6	8.2	.0	.0	.0	19.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3
1-2	.0	7.9	4.8	.0	.0	.0	12.7
3-4	.0	1.4	9.2	.0	.0	.0	10.6
5-6	.0	.0	4.5	1.4	.0	.0	5.8
7	.0	.3	1.4	.0	.0	.0	1.7
8-9	.0	.0	.0	1.4	.0	.0	1.4
10-11	.0	.0	1.4	.0	.0	.0	1.4
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
TOT PCT	.3	9.6	21.2	2.7	.0	.0	33.9

FEBRUARY

PERIOD: (OVER-ALL) 1963-1969

AREA 0003 CUMBERLAND ISLANDS
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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.1	1.4	.0	.0	.0	3.4	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.0	2.1	.0	.0	.0	2.1	.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
TOT PCT	.0	3.4	3.4	.0	.0	.0	6.8	.0	.3	.0	.0	.0	.0	.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4	1.4	.0	.0	.0	.0	.0	1.4	
1-2	.0	.0	.0	.0	.0	.0	.0	1.4	7.5	.0	.0	.0	.0	8.9	
3-4	.0	.0	.0	.0	.0	.0	.0	.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	
TOT PCT	.0	1.4	.0	.0	.0	.0	1.4	2.7	7.5	.0	.0	.0	.0	10.3	95.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.5	6.8	.0	.0	.0	.0	16.2	
1-2	4.1	36.5	10.8	.0	.0	.0	51.4	
3-4	.0	4.1	14.9	.0	.0	.0	18.9	
5-6	.0	.0	5.4	1.4	.0	.0	6.8	
7	.0	1.4	1.4	.0	.0	.0	2.7	
8-9	.0	.0	.0	1.4	.0	.0	1.4	
10-11	.0	.0	1.4	.0	.0	.0	1.4	
12	.0	.0	1.4	.0	.0	.0	1.4	
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	
TOT PCT	13.5	48.6	35.1	2.7	.0	.0	100.0	74

PERIOD: (OVER-ALL) 1949-1969

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	37.5	16.1	.0	1.8	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	2
6-7	.0	2.7	5.4	2.7	.9	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	4
8-9	.0	.9	.0	.9	4.5	2.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.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	
INDET	9.8	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	0
TOTAL	21	48	24	4	8	4	2	1	0	0	0	0	0	0	0	0	0	0	0	112	3
PCT	18.8	42.9	21.4	3.6	7.1	3.6	1.8	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1923-1969
(OVER-ALL) 1882-1969

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	5.6	.0	.0	.0	.0	.0	5.6	.0	5.6	.0	.0	.0	.0	88.7
NE	6.8	5.5	.0	.0	.0	.0	.0	12.3	5.5	.0	.0	.0	1.4	.0	80.8
E	3.6	13.0	.0	.0	.0	.0	.0	16.6	.0	.0	1.9	.0	1.6	.0	79.9
SE	5.7	8.8	1.1	.0	.0	.0	.0	15.6	6.3	.6	1.4	.0	1.1	.0	75.0
S	5.4	8.1	.0	.0	.0	.0	.0	13.5	.0	5.4	.0	.0	2.7	.0	78.4
SW	.0	27.6	.0	.0	.0	.0	.0	27.6	.0	.0	.0	.0	.0	.0	72.4
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
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	.0	.0	100.0
TOT PCT	4.5	9.3	.6	.0	.0	.0	.0	14.4	3.6	.9	1.2	.0	1.2	.0	78.7
TOT OBS:	334														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00&03	6.0	6.0	.0	.0	.0	.0	.0	12.0	1.2	.0	.0	.0	1.2	.0	85.5
06&09	3.1	7.1	1.0	.0	.0	.0	.0	11.2	3.1	.0	2.0	.0	2.0	.0	81.6
12&15	3.0	13.6	1.5	.0	.0	.0	.0	18.2	3.0	3.0	3.0	.0	1.5	.0	71.2
18&21	7.1	12.1	.0	.0	.0	.0	.0	19.2	6.1	1.0	.0	.0	1.0	.0	72.7
TOT PCT	4.9	9.5	.6	.0	.0	.0	.0	15.0	3.5	.9	1.2	.0	1.4	.0	78.0
TOT OBS:	346														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	4.0	.5	.0	.0	.0		5.2	6.7	2.6	8.7	6.5	2.3	3.0	5.4	7.3	1.8
NE	1.1	3.2	1.2	.2	.1	.0		5.7	8.6	8.3	7.2	4.5	3.9	3.8	8.5	5.3	4.9
E	1.5	12.7	8.4	.7	.1	.0		23.4	10.4	11.5	17.5	23.3	25.8	24.2	27.7	27.3	25.0
SE	2.0	15.6	27.2	6.7	.4	.0		51.9	14.0	64.7	53.0	53.1	52.3	62.9	47.7	46.0	49.1
S	.9	3.2	2.1	.3	.0	.0		6.5	9.6	10.3	7.5	5.1	5.5	3.0	4.6	6.0	9.5
SW	.4	.7	.2	.0	.0	.0		1.3	6.2	.0	2.7	2.2	1.6	.0	.0	1.0	1.2
W	.4	.1	.0	.0	.0	.0		.5	2.6	.0	.0	.0	.8	.0	.8	.5	1.2
NW	.5	3.0	.2	.0	.0	.0		3.7	6.4	.0	2.1	3.1	7.8	3.0	3.8	1.8	7.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	2.6	1.2	2.2	.0	.0	1.5	5.0	.0
TOT OBS	52	235	221	44	3	0	555		11.5	39	83	89	64	33	65	100	82
TOT PCT	9.4	42.3	39.8	7.9	.5	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.9	2.3	.0	.0	.0		5.2	6.7	6.8	4.7	4.6	4.8
NE	2.6	2.7	.3	.1	.0		5.7	8.6	7.6	4.2	6.9	5.1
E	6.5	13.9	2.3	.6	.0		23.4	10.4	15.6	24.5	26.5	26.2
SE	6.3	27.8	15.5	2.3	.0		51.9	14.0	56.8	52.8	52.8	47.4
S	2.1	3.6	.8	.0	.0		6.5	9.6	8.4	5.2	4.1	7.6
SW	.8	.5	.0	.0	.0		1.3	6.2	1.8	2.0	.0	1.1
W	.5	.0	.0	.0	.0		.5	2.6	.0	.3	.5	.8
NW	2.2	1.5	.0	.0	.0		3.7	6.4	1.4	5.1	3.6	4.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	1.6	1.3	1.0	2.7
TOT OBS	142	291	105	17	0	555		11.5	122	153	98	182
TOT PCT	25.6	52.4	18.9	3.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1963-1969
(OVER-ALL) 1882-1969

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	1.6	10.7	37.7	44.3	5.7	.0	.0	11.4	100.0	122
06609	1.3	7.8	41.2	39.2	9.2	1.3	.0	12.0	100.0	153
12615	1.0	2.0	48.0	39.8	9.2	.0	.0	12.0	100.0	98
18621	2.7	8.[illegible]	43.4	37.4	7.7	.5	.0	10.8	100.0	182
TOT	10	42	235	221	44	3	0	11.5		555
PCT	1.8	7.6	42.3	39.8	7.9	.5	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.6	.0	1.4	.0		2.6
NE	.9	2.1	1.6	.7		4.1
E	5.7	5.5	6.0	1.4		3.9
SE	15.7	17.4	16.2	13.3		4.5
S	1.2	2.6	1.0	1.2		4.2
SW	.0	.0	.0	.0		.0
W	.0	.0	.0	.0		.0
NW	.9	.0	.0	.7		3.7
VAR	.0	.0	.0	.0		.0
CALM	1.4	.0	.7	.0		2.3
TOT OBS	41	40	39	25	145	4.2
TOT PCT	28.3	27.6	26.9	17.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	3.3	
NE	.0	.0	.0	.0	.2	.0	.7	.0	.0	.0	4.3	
E	.0	.0	.0	.0	1.2	1.4	.0	.0	.0	.0	16.0	
SE	.0	.0	.7	8.3	9.0	2.8	.7	.7	.0	.0	40.5	
S	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	5.3	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	1.4	
TOT OBS	0	0	1	13	16	7	2	1	0	0	105	145
TOT PCT	.0	.0	.7	9.0	11.0	4.8	1.4	.7	.0	.0	72.4	100.0

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 >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.7	.7	.7	.7	.7	.7	.7	.7
= OR >3500	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
= OR >2000	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
= OR >1000	15.2	16.6	17.9	17.9	17.9	17.9	17.9	17.9
= OR >600	20.0	23.4	26.9	26.9	26.9	26.9	26.9	26.9
= OR >300	20.0	24.1	27.6	27.6	27.6	27.6	27.6	27.6
= OR >150	20.0	24.1	27.6	27.6	27.6	27.6	27.6	27.6
= OR > 0	20.0	24.1	27.6	27.6	27.6	27.6	27.6	27.6
TOTAL	29	35	40	40	40	40	40	40

TOTAL NUMBER OF OBS: 145 PCT FREQ NH <5/8: 72.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.9	11.5	23.6	17.6	10.9	6.7	4.8	4.2	12.7	.0	165

MARCH

PERIOD: (PRIMARY) 1923-1969
(OVER-ALL) 1887-1969

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.3	.2	.2	.0	.0	.0	.0	.0	.0	.6	
1<2	PCP	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.3	.8	.2	.0	.0	.0	.0	.0	1.2	
	TOT %	.0	.0	.3	1.4	.2	.0	.0	.0	.0	.0	1.8	
2<5	PCP	.0	.0	.3	.9	.3	.0	.0	.0	.0	.0	1.5	
	NO PCP	.0	.1	.5	.6	.0	.0	.0	.0	.0	.0	1.2	
	TOT %	.0	.1	.8	1.5	.3	.0	.0	.0	.0	.0	2.7	
5<10	PCP	.3	.3	2.9	5.4	.5	.6	.0	.0	.0	.0	9.9	
	NO PCP	1.1	1.1	4.4	11.6	1.4	.3	.3	2.0	.0	.0	21.9	
	TOT %	1.4	1.4	7.2	17.0	1.8	.9	.3	2.0	.0	.0	31.8	
10+	PCP	.0	.1	.7	1.4	.0	.0	.0	.0	.0	.0	2.1	
	NO PCP	4.0	3.7	14.0	31.5	3.3	1.3	.3	2.0	.0	.9	61.0	
	TOT %	4.0	3.8	14.6	32.9	3.3	1.3	.3	2.0	.0	.9	63.1	
	TOT OBS												333
	TOT PCT	5.2	5.5	23.1	52.9	5.6	2.2	.6	4.0	.0	.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.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	
	4-10	.0	.0	.2	.2	.0	.0	.0	.0	.0		.4	
	11-21	.0	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	11-21	.0	.0	.2	1.1	.0	.0	.0	.0	.0		1.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.2	1.2	.1	.0	.0	.0	.0	.0	1.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.4	.2	.0	.0	.0	.0	.0		.9	
	11-21	.0	.1	.2	.4	.0	.0	.0	.0	.0		.7	
	22+	.0	.0	.0	.7	.2	.0	.0	.0	.0		.9	
	TOT %	.0	.3	.6	1.3	.2	.0	.0	.0	.0	.0	2.4	
5<10	0-3	.2	.2	.1	.6	.2	.0	.2	.4	.0	.0	2.0	
	4-10	1.2	.4	4.0	2.9	1.3	.4	.1	1.6	.0		12.0	
	11-21	.0	.7	2.2	7.7	[illegible]	.2	.0	.0	.0		10.9	
	22+	.0	.2	.1	2.8	.0	.0	.0	.0	.0		3.1	
	TOT %	1.4	1.6	6.4	13.9	1.[illegible]	.7	.3	2.0	.0	.0	28.0	
10+	0-3	.6	1.0	1.1	.9	.6	.5	.2	.2	.0	1.3	6.4	
	4-10	2.8	2.3	9.1	13.3	1.[illegible]	.4	.0	1.7	.0		31.6	
	11-21	.6	.6	5.6	17.9	.9	.0	.0	.3	.0		25.8	
	22+	.0	.0	.0	3.4	.[illegible]	.0	.0	.0	.0		3.6	
	TOT %	3.9	3.9	15.8	35.4	3.[illegible]	.9	.2	2.2	.0	1.3	67.3	
	TOT OBS												450
	TOT PCT	5.4	5.9	23.3	52.1	5.[illegible]	1.6	.6	4.2	.0	1.3	100.0	

PERIOD: (PRIMARY) 1923-1969
(OVER-ALL) 1882-1969

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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
00Z03	.0	.0	.0	5.3	18.4	2.6	2.6	.0	.0	.0	28.9	71.1	38
06Z09	.0	.0	.0	9.1	9.1	4.5	.0	.0	.0	.0	22.7	77.3	44
12Z15	.0	.0	3.1	12.5	9.4	6.3	3.1	.0	.0	.0	34.4	65.6	32
18Z21	.0	.0	.0	6.8	4.5	4.5	.0	2.3	.0	.0	18.2	81.8	44
TOT	0	0	1	13	16	7	2	1	0	0	40	118	158
PCT	.0	.0	.6	8.2	10.1	4.4	1.3	.6	.0	.0	25.3	74.7	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
00Z03	.0	1.0	1.0	1.0	24.3	72.8	103
06Z09	.0	.8	.0	6.3	33.6	59.4	128
12Z15	.0	.0	4.7	2.4	25.9	67.1	85
18Z21	.0	.7	1.4	.7	29.5	67.8	146
TOT	0	3	7	12	133	307	462
PCT	.0	.6	1.5	2.6	28.8	66.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00Z03	.0	.0	5.6	25.0	69.4	36
06Z09	.0	.0	15.4	12.8	71.8	39
12Z15	.0	3.3	20.0	16.7	63.3	30
18Z21	.0	.0	7.5	12.5	80.0	40
TOT	0	1	17	24	104	145
PCT	.0	.7	11.7	16.6	71.7	100.0

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
90/94	.0	.0	.0	.0	1.2	.0	.0	.0	2	1.2
85/89	.0	.0	.0	.8	3.1	1.6	.4	.4	16	6.3
80/84	.0	.0	.0	1.2	10.6	20.5	16.1	2.0	128	50.4
75/79	.0	.0	.0	.0	5.1	14.6	9.8	11.4	104	40.9
70/74	.0	.0	.0	.0	.0	.0	1.2	.0	3	1.2
TOTAL	0	0	0	5	51	93	70	35	254	100.0
PCT	.0	.0	.0	2.0	20.1	36.6	27.6	13.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.4	.0	.0	.4	.3	.1	.0	.0	.0	.0
.7	.4	1.4	2.6	.4	.0	.2	.7	.0	.0
3.6	2.8	14.1	22.1	2.8	.8	.2	2.9	.0	1.2
.4	1.1	8.2	27.3	3.2	.8	.0	.0	.0	.0
.0	.0	.4	.4	.0	.4	.0	.0	.0	.0
5.1	4.2	24.0	52.8	6.7	2.1	.4	3.5	.0	1.2

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	91	90	87	81	77	74	74	81.4	121
06Z09	90	89	85	80	76	74	74	80.8	148
12Z15	86	85	83	79	76	73	73	79.5	96
18Z21	84	83	82	79	75	74	73	78.7	182
TOT	91	88	85	80	76	74	73	80.0	547

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
00Z03	.0	.0	25.4	46.0	25.4	3.2	75	63
06Z09	.0	6.0	26.2	39.3	21.4	7.1	75	84
12Z15	.0	.0	10.5	34.2	26.3	28.9	82	38
18Z21	.0	.0	13.8	27.5	36.3	22.5	82	80
TOT	0	5	53	97	73	37	78	265

MARCH

PERIOD: (PRIMARY) 1923-1969
(OVER-ALL) 1862-1969

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.4	.0	1	.0	.4
7/8	.0	.4	.4	1.2	.4	6	.0	2.4
6	.0	.0	.0	.0	.4	1	.0	.4
5	.0	.4	1.2	.4	.0	5	.0	2.0
4	.0	.0	2.4	.8	.8	10	.0	4.0
3	.0	.8	1.2	.4	.0	6	.0	2.4
2	.0	2.4	5.2	.0	.0	19	.4	7.2
1	.0	4.0	8.8	.0	.0	32	.8	12.0
0	.0	6.4	10.0	.4	.0	42	.4	16.4
-1	.0	12.8	2.8	.0	.0	39	.0	15.6
-2	1.2	9.6	2.8	.0	.0	34	.0	13.6
-3	.8	7.2	.8	.4	.0	23	.0	9.2
-4	2.4	5.2	.8	.0	.0	21	.0	8.4
-5	.4	.8	.0	.0	.0	3	.0	1.2
-6	1.2	.8	.0	.0	.0	5	.0	2.0
-7/-8	.0	.4	.4	.0	.0	2	.0	.8
-9/-10	.4	.0	.0	.0	.0	1	.0	.4
TOTAL	16	128	92	10	4	250	4	246
PCT	6.4	51.2	36.8	4.0	1.6	100.0	1.6	98.4

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.9	.0	.0	.0	.0	1.8
1-2	.0	2.8	.0	.0	.0	.0	2.8
3-4	.0	.0	1.6	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.9	3.7	1.6	.0	.0	.0	6.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.0	.0	.0	.0	1.8
1-2	.9	2.3	.0	.0	.0	.0	3.2
3-4	.0	.0	1.8	.0	.0	.0	1.8
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.9	4.1	2.1	.0	.0	.0	7.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.7	.0	.0	.0	1.6
1-2	.0	5.5	3.0	.0	.0	.0	8.5
3-4	.0	3.9	4.4	.0	.0	.0	8.3
5-6	.0	.9	3.4	.0	.0	.0	4.4
7	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	11.2	12.4	.0	.0	.0	23.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	2.1	.0	.0	.0	2.1
1-2	.0	10.8	2.8	.0	.0	.0	13.5
3-4	.0	6.4	9.4	3.7	.0	.0	19.5
5-6	.0	.0	10.1	3.7	.0	.0	13.8
7	.0	.0	4.6	2.8	.9	.0	8.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	17.2	28.9	10.1	.9	.0	57.1

PERIOD: (OVER-ALL) 1963-1969

MARCH

TABLE 18 (CONT)

AREA 0003 CUMBERLAND ISLANDS
19.7S 148.3E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.5	.7	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.7	.0	.0	.0	.0	.7	.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	.9	.0	.0	.9	.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
TOT PCT	.0	3.2	.7	.9	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.8	3.7	2.8	.0	.0	.0	8.3	
1-2	.9	23.9	6.4	.0	.0	.0	31.2	
3-4	.0	11.0	17.4	3.7	.0	.0	32.1	
5-6	.0	.9	13.8	3.7	.0	.0	18.3	
7	.0	.0	5.5	3.7	.9	.0	10.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	2.8	39.4	45.9	11.0	.9	.0	100.0	109

PERIOD: (OVER-ALL) 1949-1969

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	24.0	20.5	4.8	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	78	3
6-7	.0	1.4	8.2	11.0	12.3	.7	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	6
8-9	.0	.0	.0	2.1	.7	.7	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	4.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	0
TOTAL	10	38	42	27	21	2	1	0	5	0	0	0	0	0	0	0	0	0	0	146	4
PCT	6.8	26.0	28.8	18.5	14.4	1.4	.7	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1884-1969

AREA 0003 CUMBERLAND ISLANDS
19.7S 148.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	2.0	.0	.0	.0	.0	.0	2.0	.0	.0	2.0	.0	.0	.0	96.0
NE	7.1	.0	.0	.0	.0	.0	.0	7.1	.0	.0	1.2	.0	.0	.0	91.8
E	3.5	.0	.0	.0	.0	.0	.0	3.5	2.6	.5	1.4	.0	1.9	.0	90.6
SE	4.2	2.3	.0	.0	.0	.0	.0	6.5	1.3	.3	1.4	.0	.0	.0	90.8
S	1.7	1.1	.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	97.2
SW	.0	4.3	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	8.7	.0	87.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	2.2	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	97.8
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	.0	.0	100.0
TOT PCT	3.3	1.3	.0	.0	.0	.0	.0	4.7	1.1	.2	1.1	.0	.7	.0	92.4
TOT OBS:	450														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	1.0	2.0	.0	.0	.0	.0	.0	3.0	2.0	1.0	.0	.0	1.0	.0	93.9
06609	3.2	.6	.0	.0	.0	.0	.0	3.9	.0	.0	1.9	.0	.6	.0	93.5
12615	4.8	3.6	.0	.0	.0	.0	.0	8.3	1.2	.0	3.6	.0	.0	.0	86.9
18621	4.9	1.6	.0	.0	.0	.0	.0	6.5	1.6	.0	.0	.0	.8	.0	91.1
TOT PCT	3.5	1.7	.0	.0	.0	.0	.0	5.2	1.1	.2	1.3	.0	.7	.0	91.8
TOT OBS:	461														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.9	2.7	.2	.0	.0	.0		4.9	4.9	2.0	4.0	2.3	7.6	3.1	8.0	6.1	4.0
NE	1.7	6.1	.7	.2	.0	.0		8.6	6.4	7.4	10.1	8.5	9.2	10.2	12.7	7.6	4.0
E	1.8	12.4	7.4	.4	.0	.0		22.1	9.7	20.9	22.5	24.1	22.4	37.5	26.0	15.9	17.2
SE	1.5	16.8	22.6	1.9	.2	.0		42.9	12.3	52.0	31.9	50.5	44.2	40.6	38.0	46.8	41.7
S	.5	5.1	3.7	.9	.2	.0		10.4	11.5	11.5	14.6	7.8	8.7	4.7	5.3	8.8	18.7
SW	.5	1.1	.6	.0	.0	.0		2.2	7.9	.0	5.2	.0	1.7	.8	2.0	1.7	4.3
W	.5	1.0	.2	.0	.0	.0		1.7	6.4	.0	4.5	1.8	.0	.0	.0	2.5	2.0
NW	1.3	2.5	.9	.0	.0	.0		4.7	6.2	.7	6.2	1.4	6.3	.0	8.0	2.7	8.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0	5.4	1.0	3.7	.0	3.1	.0	7.8	.0
TOT OBS	78	304	232	22	2	0	638		10.0	37	101	109	95	32	75	102	87
TOT PCT	12.2	47.6	36.4	3.4	.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.7	1.2	.0	.0	.0		4.9	4.9	3.4	4.8	6.5	5.2
NE	5.7	2.8	.0	.2	.0		8.6	6.4	9.4	8.8	11.9	6.0
E	6.5	12.9	2.6	.0	.0		22.1	9.7	22.1	23.3	29.4	16.5
SE	7.4	24.1	11.1	.2	.2		42.9	12.3	37.3	47.5	38.8	44.4
S	2.9	5.6	1.8	.0	.2		10.4	11.5	13.8	8.2	5.1	13.4
SW	1.2	.8	.2	.0	.0		2.2	7.9	3.8	.7	1.6	2.9
W	.9	.8	.0	.0	.0		1.7	6.4	3.3	1.0	.0	2.2
NW	3.1	1.6	.0	.0	.0		4.7	6.2	4.7	3.7	5.6	5.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	2.2	2.0	.9	4.2
TOT OBS	216	318	100	2	2	638		10.0	138	204	107	189
TOT PCT	33.9	49.8	15.7	.3	.3		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1884-1969

AREA 0003 CUMBERLAND ISLANDS
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	2.2	15.2	44.2	34.8	3.6	.0	.0	9.9	100.0	138
06&09	2.0	5.4	53.9	34.3	3.9	.5	.0	10.2	100.0	204
12&15	.9	7.5	44.9	42.1	3.7	.9	.0	10.7	100.0	107
18&21	4.2	11.6	45.0	36.5	2.6	.0	.0	9.4	100.0	189
TOT	16	62	304	232	22	2	0	10.0		638
PCT	2.5	9.7	47.6	36.4	3.4	.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.5	.0	.0	.0		.2
NE	2.5	3.4	2.5	.2		3.6
E	10.4	3.8	7.7	3.1		3.8
SE	12.6	12.9	15.5	5.6		4.3
S	6.7	.0	2.3	1.1		2.6
SW	.2	.0	.0	.2		4.5
W	.7	.7	.0	.0		2.0
NW	.4	.0	.0	.0		.5
VAR	.0	.0	.0	.0		.0
CALM	.7	3.6	.7	.0		3.5
TOT OBS	51	34	40	14	139	3.7
TOT PCT	36.7	24.5	28.8	10.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	
NE	.0	.0	.0	.0	.2	1.1	.0	.0	.0	.0	7.4	
E	.0	.0	.0	.7	4.3	1.8	2.0	.0	.0	.0	16.2	
SE	.0	.0	.7	1.6	4.9	.7	2.3	1.4	.0	.0	34.9	
S	.0	.0	.0	.5	.0	1.4	.0	.5	.0	.0	7.6	
SW	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	
TOT OBS	0	0	1	4	13	7	6	3	0	0	105	139
TOT PCT	.0	.0	.7	2.9	9.4	5.0	4.3	2.2	.0	.0	75.5	100.0

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 >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.7	.7	2.1	2.1	2.1	2.1	2.1	2.1
= OR >3500	4.3	5.0	6.4	6.4	6.4	6.4	6.4	6.4
= OR >2000	9.2	9.9	11.3	11.3	11.3	11.3	11.3	11.3
= OR >1000	18.4	19.1	20.6	20.6	20.6	20.6	20.6	20.6
= OR >600	21.3	22.0	23.4	23.4	23.4	23.4	23.4	23.4
= OR >300	22.0	22.7	24.1	24.1	24.1	24.1	24.1	24.1
= OR >150	22.0	22.7	24.1	24.1	24.1	24.1	24.1	24.1
= OR > 0	22.0	22.7	24.1	24.1	24.1	24.1	24.1	24.1
TOTAL	31	32	34	34	34	34	34	34

TOTAL NUMBER OF OBS: 141

PCT FREQ NH <5/8: 75.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.2	20.3	19.0	20.9	7.2	8.5	4.6	3.9	6.5	.0	153

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1884-1969

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.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	
	NO PCP	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.2	.7	.0	.0	.0	.0	.0	.0	.9	
	TOT %	.0	.0	.2	.7	.0	.0	.0	.0	.0	.0	.9	
5<10	PCP	.1	.7	.7	2.0	.1	.1	.0	.1	.0	.0	3.8	
	NO PCP	2.1	3.4	8.0	16.1	4.1	.7	.9	2.7	.0	.7	38.7	
	TOT %	2.2	4.1	8.7	18.1	4.2	.8	.9	2.8	.0	.7	42.4	
10+	PCP	.0	.0	.2	.6	.2	.0	.0	.0	.0	.0	.9	
	NO PCP	3.3	5.3	14.1	20.0	5.5	1.6	1.4	2.2	.0	1.8	55.1	
	TOT %	3.3	5.3	14.3	20.6	5.7	1.6	1.4	2.2	.0	1.8	56.0	
	TOT OBS												450
	TOT PCT	5.5	9.4	23.6	39.3	9.9	2.6	2.3	4.9	.0	2.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.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	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.2	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.2	.1	.1	.0	.0	.0	.0		.4	
	22+	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.0	.4	.1	.1	.0	.0	.0	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.3	.5	.0	.0	.0	.0	.0		.8	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.3	.7	.0	.0	.0	.0	.0	.0	1.0	
5<10	0-3	.7	1.1	.8	.7	.3	.1	.1	.4	.0	.6	4.6	
	4-10	1.0	1.6	3.8	5.9	1.9	.7	.5	1.1	.0		16.4	
	11-21	.3	.7	2.9	9.1	1.1	.1	.2	1.0	.0		15.2	
	22+	.0	.2	.1	1.1	.6	.0	.0	.0	.0		1.9	
	TOT %	1.9	3.6	7.5	16.7	3.9	.9	.8	2.4	.0	.6	38.2	
10+	0-3	1.7	1.0	1.2	.9	.3	.4	.5	1.2	.0	1.9	9.1	
	4-10	1.5	4.0	8.7	9.4	3.2	.6	.7	.9	.0		29.1	
	11-21	.0	.1	4.3	12.4	2.6	.4	.1	.1	.0		20.0	
	22+	.0	.0	.2	.9	.8	.0	.0	.0	.0		1.9	
	TOT %	3.2	5.1	14.4	23.6	6.9	1.4	1.3	2.2	.0	1.9	60.1	
	TOT OBS												519
	TOT PCT	5.2	8.7	22.6	41.0	10.9	2.5	2.1	4.6	.0	2.5	100.0	

APRIL

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1884-1969

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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
00&03	.0	.0	.0	2.7	16.2	8.1	5.4	2.7	.0	.0	35.1	64.9	37
06&09	.0	.0	2.0	2.0	6.1	4.1	.0	2.0	.0	.0	16.3	83.7	49
12&15	.0	.0	.0	3.1	.0	3.1	6.3	3.1	.0	.0	15.6	84.4	32
18&21	.0	.0	.0	3.0	12.1	3.0	6.1	.0	.0	.0	24.2	75.8	33
TOT	0	0	1	4	13	7	6	3	0	0	34	117	151
PCT	.0	.0	.7	2.6	8.6	4.6	4.0	2.0	.0	.0	22.5	77.5	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
00&03	.0	.0	.9	.9	24.6	73.7	114
06&09	.0	.0	.6	1.7	40.2	57.5	174
12&15	.0	.0	1.1	.0	47.3	51.6	91
18&21	.0	.7	.0	.7	43.0	55.6	151
TOT	0	1	3	5	206	315	530
PCT	.0	.2	.6	.9	38.9	59.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	5.6	30.6	63.9	36
06&09	.0	2.2	6.7	11.1	82.2	45
12&15	.0	.0	3.3	13.3	83.3	30
18&21	.0	.0	3.3	23.3	73.3	30
TOT	0	1	7	27	107	141
PCT	.0	.7	5.0	19.1	75.9	100.0

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
90/94	.0	.0	.0	.3	.3	.0	.0	.0	2	.7
85/89	.0	.0	.0	.3	.3	.3	.7	.0	5	1.6
80/84	.0	.0	.7	1.6	9.5	9.9	7.2	1.6	93	30.6
75/79	.0	.0	.3	1.3	6.9	19.7	20.7	7.6	172	56.6
70/74	.0	.0	.0	.0	1.0	4.6	3.6	.7	30	9.9
55/59	.0	.0	.0	.0	.3	.0	.3	.0	2	.7
TOTAL	0	0	3	11	56	105	99	30	304	100.0
PCT	.0	.0	1.0	3.6	18.4	34.5	32.6	9.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.0	.0	.3	.0	.0	.0	.0	.0	.0
.0	.0	.7	.4	.2	.0	.2	.1	.0	.0
1.8	3.7	8.7	11.8	1.2	.1	1.2	.4	.0	1.6
3.2	3.7	14.7	23.6	4.6	.8	.9	3.5	.0	1.3
.3	.2	.3	4.2	3.1	.9	.3	.2	.0	.3
.0	.0	.0	.0	.3	.3	.0	.0	.0	.0
5.7	7.6	24.4	40.3	9.7	2.1	2.7	4.2	.0	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	91	90	86	79	74	72	71	79.7	134
06&09	86	85	84	79	73	71	70	78.7	201
12&15	82	81	81	77	74	71	71	76.7	107
18&21	94	88	82	76	73	59	57	76.5	188
TOT	94	87	84	78	73	71	57	77.9	630

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	4.8	27.4	25.8	33.9	8.1	76	62
06&09	.0	7.7	26.0	35.6	22.1	8.7	75	104
12&15	.0	3.1	7.7	38.5	35.4	15.4	80	65
18&21	.0	1.2	8.6	37.0	42.0	11.1	80	81
TOT	0	14	56	108	101	33	77	312

APRIL

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1884-1969

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.3	.0	.0	.0	.3	2	.0	.6
7/8	.0	.0	.3	.0	.3	.3	.0	3	.0	.9
6	.0	.0	.0	.6	.0	.0	.0	2	.0	.6
5	.0	.0	.9	.9	.0	.0	.0	6	.0	1.9
4	.3	.0	.3	2.2	.0	.0	.0	9	.0	2.8
3	.0	.6	3.4	2.5	.0	.0	.0	21	.0	6.5
2	.0	.6	5.9	3.7	.0	.0	.0	33	.3	10.0
1	.0	1.6	6.2	3.4	.0	.0	.0	36	.3	10.9
0	.0	3.4	12.1	1.6	.0	.0	.0	55	.3	16.8
-1	.3	6.5	9.3	1.2	.0	.0	.0	56	.3	17.1
-2	.0	4.7	5.3	.9	.0	.0	.0	35	.0	10.9
-3	.6	5.0	3.1	.0	.0	.0	.0	28	.3	8.4
-4	.0	2.8	1.6	.0	.0	.0	.0	14	.3	4.0
-5	.3	.9	1.2	.0	.0	.0	.0	8	.0	2.5
-6	.3	1.2	.3	.0	.0	.0	.0	6	.0	1.9
-7/-8	.3	.9	.3	.0	.0	.0	.0	5	.0	1.6
-9/-10	.6	.0	.0	.0	.0	.0	.0	2	.0	.6
TOTAL	9	91	163	55	1	1		321	6	315
PCT	2.8	28.3	50.8	17.1	.3	.3	.3	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.0	.0	.0	.0	.0	.8
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.8	.0	.0	.0	.0	.0	.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.7	.0	.0	.0	.0	3.0
1-2	.0	3.5	.0	.0	.0	.0	3.5
3-4	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.3	6.3	.5	.0	.0	.0	7.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	4.9	.0	.0	.0	.0	5.7
1-2	.0	8.7	.0	.0	.0	.0	8.7
3-4	1.1	3.3	4.6	.0	.0	.0	9.0
5-6	.0	1.1	2.7	.0	.0	.0	3.8
7	.0	.0	4.9	.0	.0	.0	4.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.9	17.9	12.2	.0	.0	.0	32.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.3	.0	.0	.0	.0	3.3
1-2	1.1	1.9	3.3	.0	.0	.0	6.3
3-4	.0	4.6	15.8	.0	.0	.0	20.4
5-6	.0	.0	14.1	1.1	.0	.0	15.2
7	.0	.0	2.4	.0	.0	.0	2.4
8-9	.0	.0	2.2	.0	.0	.0	2.2
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.1	9.8	37.8	1.1	.0	.0	49.7

PERIOD: (OVER-ALL) 1963-1969

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.0	3.3	.0	.0	.0	.0	3.3
3-4	.0	.8	.0	.0	.0	.0	.8
5-6	.0	.0	1.6	.0	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	4.9	1.6	.0	.0	.0	6.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.3	.0	.0	.0	.0	.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.1	.0	.0	.0	.0	1.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	1.1	.0	.0	.0	.0	1.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.0	.0	.0	.0	.0	.3	
1-2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	.3	.0	.0	.0	.0	.0	.3	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.3	12.0	.0	.0	.0	.0	16.3	
1-2	1.1	18.5	3.3	.0	.0	.0	22.8	
3-4	1.1	8.7	20.7	.0	.0	.0	30.4	
5-6	.0	1.1	18.5	1.1	.0	.0	20.7	
7	.0	.0	7.6	.0	.0	.0	7.6	
8-9	.0	.0	2.2	.0	.0	.0	2.2	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	6.5	40.2	52.2	1.1	.0	.0	100.0	92

PERIOD: (OVER-ALL) 1949-1969

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	6.8	27.8	21.8	9.8	.8	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	3
6-7	.0	3.8	4.5	4.5	5.3	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	5
8-9	.0	.0	.0	.8	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
10-11	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
12-13	.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	
INDET	8.3	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	0
TOTAL	20	42	36	20	10	3	1	1	0	0	0	0	0	0	0	0	0	0	0	133	3
PCT	15.0	31.6	27.1	15.0	7.5	2.3	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1881-1969

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
NE	4.3	4.3	.0	.0	.0	.0	.0	8.5	.0	.0	.0	.0	.0	.0		91.5
E	1.7	1.7	1.7	.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0		95.0
SE	.0	2.0	.3	.0	.0	.0	.0	2.3	1.9	.0	.0	.0	.0	.0		95.8
S	.0	1.0	1.0	.0	.0	.0	.0	2.1	1.5	.0	2.1	.0	.0	.0		94.4
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
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	.0	.0		100.0
TOT PCT	.5	1.6	.5	.0	.0	.0	.0	2.7	1.1	.0	.3	.0	.0	.0		96.0
TOT OBS:	376															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.1	.0	.0	.0	.0	.0	.0	1.1	2.2	.0	.0	.0	.0	.0		96.8
06&09	.0	2.7	.0	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0		97.3
12&15	1.2	3.7	.0	.0	.0	.0	.0	4.9	1.2	.0	.0	.0	.0	.0		93.8
18&21	.0	.9	1.8	.0	.0	.0	.0	2.6	.9	.0	.9	.0	.0	.0		95.6
TOT PCT	.5	1.8	.5	.0	.0	.0	.0	2.8	1.0	.0	.3	.0	.0	.0		96.0
TOT OBS:	399															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	1.8	.4	.0	.0	.0		3.5	5.3	.0	1.8	5.5	6.9	2.2	3.8	3.5	2.1
NE	1.2	3.6	.5	.0	.1	.0		5.4	6.4	8.1	1.8	10.2	6.9	3.7	5.8	6.6	.0
E	1.7	8.1	5.8	.2	.2	.0		16.0	9.8	9.9	11.9	14.1	20.6	34.6	19.2	13.3	14.3
SE	2.9	19.4	21.5	2.1	.0	.0		46.0	11.5	50.0	40.5	47.9	48.4	45.6	46.2	45.4	45.6
S	1.8	7.8	5.0	.1	.0	.0		14.7	8.9	22.7	23.8	7.8	8.4	2.2	8.3	18.8	20.1
SW	1.2	3.6	.8	.0	.0	.0		5.6	7.1	4.7	8.3	4.2	1.9	5.9	3.8	4.4	10.7
W	.6	1.4	.0	.0	.0	.0		2.0	4.0	2.3	4.8	2.6	.6	.0	1.3	1.3	2.1
NW	1.5	1.4	.2	.0	.0	.0		3.0	4.3	2.3	4.8	3.6	3.8	.0	2.6	3.1	2.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.8							3.8	.0	.0	2.4	4.2	2.5	5.9	9.0	3.5	3.1
TOT OBS	100	294	213	15	2	0	624		9.3	43	84	96	80	34	78	119	96
TOT PCT	16.0	47.1	34.1	2.4	.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.9	.5	.2	.0	.0		3.5	5.3	1.2	6.1	3.3	2.9
NE	3.8	1.3	.2	.1	.0		5.4	6.4	3.9	8.7	5.1	3.6
E	5.6	8.3	1.8	.2	.0		16.0	9.8	11.2	17.0	23.9	13.8
SE	10.3	25.7	9.5	.5	.0		46.0	11.5	43.7	48.2	46.0	45.5
S	6.1	7.2	1.4	.0	.0		14.7	8.9	23.4	8.1	6.5	19.4
SW	2.8	2.5	.2	.0	.0		5.6	7.1	7.1	3.1	4.5	7.3
W	2.0	.0	.0	.0	.0		2.0	4.0	3.9	1.7	.9	1.7
NW	2.7	.2	.2	.0	.0		3.0	4.3	3.9	3.7	1.8	2.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.8						3.8	.0	1.6	3.4	8.0	3.3
TOT OBS	251	204	84	5	0	624		9.3	127	176	112	209
TOT PCT	40.2	45.5	13.5	.8	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1921-1969
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.6	11.0	44.9	39.4	1.6	1.6	.0	10.1	100.0	127
06&09	2.4	10.8	47.2	34.1	4.5	.0	.0	9.8	100.0	176
12&15	8.0	11.6	42.0	35.7	2.7	.0	.0	9.3	100.0	112
18&21	3.3	14.4	51.2	30.1	1.0	.0	.0	8.4	100.0	209
TOT	24	76	294	213	15	2	0	9.3		624
PCT	3.8	12.2	47.1	34.1	2.4	.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	.8	1.4	.0		2.7
NE	3.8	.0	2.6	.0		3.0
E	3.2	2.0	5.2	1.6		4.4
SE	12.0	14.6	21.6	3.2		4.3
S	5.8	4.0	1.2	.0		2.2
SW	2.6	1.8	.8	.0		2.8
W	2.0	.0	.0	.0		.8
NW	4.4	.0	.0	.0		.5
VAR	.0	.0	.0	.0		.0
CALM	3.2	.8	.0	.0		.6
TOT OBS	46	30	41	6	125	3.5
TOT PCT	38.4	24.0	32.8	4.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	3.0	
NE	.0	.0	.0	.0	.8	.0	.2	.0	.0	.0	5.4	
E	.0	.0	.0	.8	.8	.6	.0	.0	.0	.0	9.8	
SE	.8	.0	.8	.8	4.2	2.6	.0	.0	.0	1.6	40.6	
S	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	10.4	
SW	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	4.4	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	
TOT OBS	1	0	1	2	9	4	1	0	0	2	105	125
TOT PCT	.8	.0	.8	1.6	7.2	3.2	.8	.0	.0	1.6	84.0	100.0

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 >500YD	= OR >0
= OR >6500	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >5000	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >3500	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
= OR >2000	4.7	4.7	5.4	5.4	5.4	5.4	5.4	5.4
= OR >1000	7.8	10.9	12.4	12.4	12.4	12.4	12.4	12.4
= OR >600	9.3	12.4	14.0	14.0	14.0	14.0	14.0	14.0
= OR >300	10.1	13.2	14.7	14.7	14.7	14.7	14.7	14.7
= OR >150	10.1	13.2	14.7	14.7	14.7	14.7	14.7	14.7
= OR > 0	10.9	14.0	15.5	15.5	15.5	15.5	15.5	15.5
TOTAL	14	18	20	20	20	20	20	20

TOTAL NUMBER OF OBS: 129

PCT FREQ NH <5/8: 84.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.6	14.8	20.4	14.8	13.4	6.3	3.5	5.6	3.5	.0	142

MAY

PERIOD: (PRIMARY) 1921-1969
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.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	
	NO PCP	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.6	.2	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.0	.0	.6	.2	.0	.0	.0	.0	.0	.8	
5<10	PCP	.0	.3	.8	.8	.3	.0	.0	.0	.0	.0	2.1	
	NO PCP	3.1	2.8	7.9	20.7	6.4	3.6	1.3	1.5	.0	1.3	48.7	
	TOT %	3.1	3.1	8.7	21.5	6.7	3.6	1.3	1.5	.0	1.3	50.8	
10+	PCP	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	1.9	2.9	7.2	23.3	5.8	1.9	.7	2.7	.0	1.3	47.6	
	TOT %	1.9	3.2	7.2	23.5	5.8	1.9	.7	2.7	.0	1.3	48.1	
	TOT OBS												376
	TOT PCT	4.9	6.3	15.9	45.7	13.0	5.5	2.0	4.1	.0	2.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.2	.1	.1	.0	.0	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	*	.1	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.6	.0	.0	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.6	.1	.0	.0	.0	.0	.0	.8	
5<10	0-3	1.0	.4	.9	1.9	1.0	.8	.0	.8	.0	1.2	7.9	
	4-10	1.2	1.6	4.2	7.9	2.9	1.8	1.0	.3	.0		20.8	
	11-21	.1	.3	2.2	8.2	2.7	.2	.0	.2	.0		13.9	
	22+	.0	.0	.0	1.0	.0	.0	.0	.0	.0		1.0	
	TOT %	2.3	2.3	7.3	18.9	6.6	2.8	1.0	1.3	.0	1.2	43.6	
10+	0-3	.6	.8	1.1	1.1	.5	.6	.3	1.0	.0	2.6	8.7	
	4-10	.8	2.2	4.1	9.2	3.9	1.4	.5	1.3	.0		23.4	
	11-21	.4	.1	3.9	14.8	2.1	.4	.0	.0	.0		21.6	
	22+	.0	.1	.3	.6	.1	.0	.0	.0	.0		1.2	
	TOT %	1.9	3.3	9.3	25.6	6.7	2.4	.8	2.3	.0	2.6	54.9	
	TOT OBS												505
	TOT PCT	4.2	5.5	16.6	45.4	13.9	5.3	1.8	3.6	.0	3.8	100.0	

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1881-1969

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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
00&03	2.2	.0	2.2	.0	6.5	6.5	.0	.0	.0	2.2	19.6	80.4	46
06&09	.0	.0	.0	.0	3.2	3.2	.0	.0	.0	.0	6.5	93.5	31
12&15	.0	.0	.0	2.9	5.9	.0	2.9	.0	.0	.0	11.8	88.2	34
18&21	.0	.0	.0	4.2	12.5	.0	.0	.0	.0	4.2	20.8	79.2	24
TOT	1	0	1	2	9	4	1	0	0	2	20	115	135
PCT	.7	.0	.7	1.5	6.7	3.0	.7	.0	.0	1.5	14.8	85.2	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
00&03	.0	.0	.9	.0	36.8	62.3	114
06&09	.0	.0	.0	2.1	47.6	50.3	143
12&15	.0	.0	.0	1.0	43.0	56.0	100
18&21	.6	.6	.6	.0	49.1	49.1	171
TOT	1	1	2	4	237	283	528
PCT	.2	.2	.4	.8	44.9	53.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	2.3	4.5	4.5	15.9	79.5	44
06&09	.0	.0	3.3	3.3	93.3	30
12&15	.0	.0	6.3	6.3	87.5	32
18&21	.0	.0	4.3	17.4	78.3	23
TOT	1	2	6	14	109	129
PCT	.8	1.6	4.7	10.9	84.5	100.0

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
85/89	.0	.0	.0	.0	.0	.3	.0	.0	1	.3
80/84	.0	.0	.3	.3	1.3	3.8	.0	.0	18	5.7
75/79	.0	.3	1.3	3.2	5.1	13.4	8.3	4.5	113	36.0
70/74	.0	.0	1.0	2.5	7.0	11.8	14.3	13.1	156	49.7
65/69	.0	.0	.3	2.5	1.9	1.9	.6	1.0	26	8.3
TOTAL	0	1	9	27	48	98	73	58	314	100.0
PCT	.0	.3	2.9	8.6	15.3	31.2	23.2	18.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
1.0	.0	1.0	2.2	.5	.2	.2	.8	.0	.0
2.1	4.1	8.0	13.4	2.9	1.8	.5	1.9	.0	1.3
2.3	1.7	5.4	26.6	6.6	2.3	1.3	1.6	.0	1.9
.0	.0	.0	3.4	4.4	.5	.0	.0	.0	.0
5.4	5.7	14.4	45.6	14.7	4.7	1.9	4.3	.0	3.2

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	85	83	81	75	69	66	65	74.7	128
06&09	86	82	80	75	70	67	67	75.0	179
12&15	80	79	77	74	68	67	67	73.5	119
18&21	82	79	77	73	66	64	64	72.6	218
TOT	86	82	79	74	67	65	64	73.8	644

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	18.9	14.9	33.8	20.3	12.2	74	74
06&09	.0	17.0	12.5	35.2	20.5	14.8	74	88
12&15	.0	2.9	17.6	32.4	25.0	22.1	79	68
18&21	.0	9.9	16.8	24.8	25.7	22.8	78	101
TOT	0	41	51	103	76	60	76	331

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1881-1969

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.3	1	.0	.3
9/10	.0	.0	.0	.0	.3	.0	1	.0	.3
7/8	.0	.0	.3	.0	.3	.0	2	.0	.6
6	.0	.0	.0	.0	.3	.0	1	.0	.3
5	.0	.0	.0	.3	.3	.0	2	.0	.6
4	.0	.3	.6	1.2	1.2	.0	11	.0	3.2
3	.0	.3	1.5	1.8	.3	.0	13	.0	3.8
2	.0	.3	3.8	1.5	.9	.3	23	.0	6.7
1	.3	.9	5.6	2.6	.9	.0	35	.0	10.2
0	.0	2.3	10.8	5.0	.0	.0	62	.0	18.1
-1	.0	2.0	12.6	2.9	.0	.0	60	.0	17.5
-2	.0	2.9	7.0	1.5	.0	.0	39	.0	11.4
-3	.6	4.4	5.6	.6	.0	.0	38	.0	11.1
-4	.0	3.8	2.0	.3	.0	.0	21	.3	5.8
-5	.3	4.1	1.5	.0	.0	.0	20	.0	5.8
-6	1.5	.3	.3	.0	.0	.0	7	.0	2.0
-7/-8	1.2	.6	.0	.0	.0	.0	6	.0	1.8
TOTAL	13	76	176	60	15	2	342	1	341
PCT	3.8	22.2	51.5	17.5	4.4	.6	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

	N							NE						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.0	1.2	.0	.0	.0	2.2	.3	.0	.0	.0	.0	.0	.3
1-2	.0	.0	.0	.0	.0	.0	.0	2.5	3.7	.0	.0	.0	.0	6.2
3-4	.0	.0	1.2	.0	.0	.0	1.2	.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	.3	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
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
TOT PCT	.9	.0	2.5	.0	.0	.0	3.4	2.8	3.7	.0	.0	.6	.0	7.1

	E							SE						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	.9	.0	.0	.0	.0	2.2	1.2	.3	.0	.0	.0	.0	1.5
1-2	1.2	5.2	3.1	.0	.0	.0	9.6	.0	8.3	8.3	.0	.0	.0	16.7
3-4	.0	.0	6.2	.0	.0	.0	6.2	.0	4.9	16.7	.3	.0	.0	21.9
5-6	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	8.6	.0	.0	.0	8.6
7	.0	.0	.0	.0	.9	.0	.9	.0	.0	1.2	.0	.0	.0	1.2
8-9	.0	.0	.0	.0	.9	.0	.9	.0	.0	1.2	.0	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	1.2
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
TOT PCT	2.5	6.2	10.5	.0	1.9	.0	21.0	1.2	13.6	36.1	1.5	.0	.0	52.5

PERIOD: (OVER-ALL) 1963-1969

MAY

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.5	.9	.0	.0	.0	3.4
3-4	.0	.0	5.6	.9	.0	.0	6.5
5-6	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	2.5	7.7	.9	.0	.0	11.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.2	1.2	.0	.0	.0	2.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	1.2	1.2	.0	.0	.0	2.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.2	.0	.0	.0	.0	1.2	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	.0	1.2	.0	.0	.0	.0	1.2	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.8	1.2	1.2	.0	.0	.0	7.2	
1-2	4.8	21.7	13.3	.0	.0	.0	39.8	
3-4	1.2	4.8	28.9	1.2	.0	.0	36.1	
5-6	.0	.0	10.8	.0	.0	.0	10.8	
7	.0	.0	1.2	.0	1.2	.0	2.4	
8-9	.0	.0	1.2	.0	1.2	.0	2.4	
10-11	.0	.0	.0	1.2	.0	.0	1.2	
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	
TOT PCT	10.8	27.7	56.6	2.4	2.4	.0	100.0	83

PERIOD: (OVER-ALL) 1949-1969

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	4.9	30.1	25.2	8.1	.8	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	87	3
6-7	.8	.0	4.1	7.3	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	5
8-9	.0	.0	.0	2.4	2.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
10-11	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
12-13	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	3.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	0
TOTAL	11	38	37	22	11	3	1	0	0	0	0	0	0	0	0	0	0	0	0	123	3
PCT	8.9	30.9	30.1	17.9	8.9	2.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1881-1969

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	4.3	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	.0	.0		95.7
NE	.0	9.1	.0	.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0	.0		90.9
E	2.5	.0	.0	.0	.0	.0	.0	2.5	3.3	.0	.0	.0	.0	.0		94.1
SE	4.5	2.0	.8	.0	.0	.0	.0	7.2	1.3	.0	1.2	.0	.8	.0		89.5
S	1.4	.6	1.9	.0	.0	.0	.0	4.0	.5	.0	.6	.0	.6	.0		94.2
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0		96.9
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
NW	.0	12.1	.0	.0	.0	.0	.0	12.1	.0	.0	.0	.0	.0	.0		87.9
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	.0	.0		100.0
TOT PCT	2.7	1.6	.9	.0	.0	.0	.0	5.2	1.1	.0	.7	.0	.7	.0		92.4
TOT OBS:	563															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.0	3.0	1.5	.0	.0	.0	.0	7.4	1.5	.0	.7	.0	.7	.0		89.6
06&09	2.2	1.1	.0	.0	.0	.0	.0	3.2	1.1	.0	.5	.0	.0	.0		95.1
12&15	3.9	1.9	1.0	.0	.0	.0	.0	6.8	.0	.0	1.0	.0	1.9	.0		90.3
18&21	1.8	.6	1.2	.0	.0	.0	.0	3.7	1.2	.0	.6	.0	.6	.0		93.9
TOT PCT	2.6	1.5	.9	.0	.0	.0	.0	4.9	1.0	.0	.7	.0	.7	.0		92.7
TOT OBS:	587															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.4	.5	.1	.0	.0	.0		2.0	3.0	.0	.8	3.6	4.4	.0	2.7	.8	1.3
NE	.7	3.3	.2	.0	.0	.0		4.2	6.2	2.0	2.3	3.0	7.9	.6	7.0	5.7	2.2
E	2.1	5.6	2.7	.3	.0	.0		10.8	8.5	5.6	7.4	11.4	17.5	19.2	12.4	11.4	4.7
SE	3.5	20.2	20.2	1.9	.0	.0		45.9	10.9	54.6	48.6	54.9	44.7	46.8	43.5	38.1	40.5
S	4.7	10.4	9.6	.5	.0	.0		25.2	9.8	28.6	27.1	19.1	15.4	25.0	18.3	30.3	37.9
SW	1.0	3.6	1.2	.0	.0	.0		5.8	8.0	5.1	6.0	4.4	3.1	5.8	8.1	8.1	5.5
W	1.0	1.0	.1	.0	.0	.0		2.1	4.7	2.0	2.7	1.3	1.8	2.6	1.6	1.3	3.9
NW	.9	.6	.1	.0	.0	.0		1.6	4.8	2.0	1.2	1.5	1.8	.0	2.2	.8	3.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0	.0	3.9	.8	3.5	.0	4.3	3.4	.9
TOT OBS	138	351	266	21	0	0	776		9.4	49	129	118	114	39	93	118	118
TOT PCT	17.8	45.2	34.3	2.7	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)									HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.9	.1	.0	.0	.0		2.0	3.0	.6	4.0	1.9	1.1
NE	2.7	1.4	.1	.0	.0		4.2	6.2	2.2	5.4	5.1	4.0
E	4.5	5.3	1.0	.0	.0		10.8	8.5	6.9	14.4	14.4	8.1
SE	9.2	29.6	6.9	.2	.0		45.9	10.9	50.3	49.9	44.5	39.3
S	8.2	13.2	3.6	.2	.0		25.2	9.8	27.5	17.2	20.3	34.1
SW	2.2	3.4	.2	.0	.0		5.8	8.0	5.8	3.8	7.4	6.8
W	1.6	.5	.0	.0	.0		2.1	4.7	2.5	1.5	1.9	2.6
NW	1.2	.5	.0	.0	.0		1.6	4.8	1.4	1.6	1.5	1.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.0	2.8	2.2	3.0	2.1
TOT OBS	263	418	92	3	0	776		9.4	178	232	132	234
TOT PCT	33.9	53.9	11.9	.4	.0		100.0		100.0	100.0	100.0	100.0

JUNE

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.8	14.0	43.3	37.1	2.8	.0	.0	9.8	100.0	178
06&09	2.2	20.7	43.1	30.2	3.9	.0	.0	9.0	100.0	232
12&15	3.0	9.1	50.8	36.4	.8	.0	.0	9.6	100.0	132
18&21	2.1	14.5	45.7	35.0	2.6	.0	.0	9.3	100.0	234
TOT	19	119	351	266	21	0	0	9.4		776
PCT	2.4	15.3	45.2	34.3	2.7	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	.0	.0	.0		.5
NE	.2	.2	1.3	.0		5.7
E	3.6	3.3	2.4	1.9		4.0
SE	18.7	9.7	14.0	9.3		4.1
S	14.6	3.6	5.5	3.3		2.9
SW	3.8	.2	.8	.0		1.4
W	1.3	.0	.0	.0		.0
NW	.2	.0	.6	.0		5.6
VAR	.0	.0	.0	.0		.0
CALM	.6	.0	.0	.0		.0
TOT OBS	70	27	39	23	159	3.5
TOT PCT	44.0	17.0	24.5	14.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
NE	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.9	
E	.0	.0	.0	1.3	1.1	.0	.0	.0	.0	.6	8.2	
SE	.6	.6	.6	3.8	5.2	2.0	1.6	1.3	.0	.0	36.0	
S	.6	.0	.6	.6	.6	1.1	.9	.0	.0	.6	21.9	
SW	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	4.1	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
NW	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
TOT OBS	2	1	2	10	12	6	4	2	0	2	118	159
TOT PCT	1.3	.6	1.3	6.3	7.5	3.8	2.5	1.3	.0	1.3	74.2	100.0

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 >50YD	= OR >0
= OR >6500	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
= OR >5000	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
= OR >3500	4.9	5.6	5.6	5.6	5.6	5.6	5.6	5.6
= OR >2000	8.0	9.3	9.3	9.3	9.3	9.3	9.3	9.3
= OR >1000	15.4	17.3	17.3	17.3	17.3	17.3	17.3	17.3
= OR >600	19.8	23.5	23.5	23.5	23.5	23.5	23.5	23.5
= OR >300	20.4	24.1	24.7	24.7	24.7	24.7	24.7	24.7
= OR >150	20.4	24.1	24.7	24.7	24.7	25.3	25.3	25.3
= OR > 0	21.0	25.3	25.9	25.9	25.9	26.5	26.5	26.5
TOTAL	34	41	42	42	42	43	43	43

TOTAL NUMBER OF OBS: 162

PCT FREQ NH <5/8: 73.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
20.5	21.1	12.7	12.7	6.0	6.6	4.2	7.8	8.4	.0	166

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.4	
1/2<1	PCP	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.6	.1	.0	.0	.0	.0	.0	.7	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.4	
2<5	PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.2	.4	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.0	.0	.2	.5	.0	.0	.0	.0	.0	.7	
5<10	PCP	.1	.3	.1	2.3	.7	.0	.0	.0	.0	.0	3.4	
	NO PCP	.8	1.2	5.8	20.6	13.5	2.5	1.2	.9	.0	1.6	48.1	
	TOT %	.9	1.5	5.9	22.9	14.2	2.5	1.2	.9	.0	1.6	51.5	
10+	PCP	.0	.0	.2	.4	.2	.0	.0	.2	.0	.0	.9	
	NO PCP	1.2	1.4	4.6	20.3	12.5	3.2	1.5	.4	.0	.4	45.5	
	TOT %	1.2	1.4	4.8	20.7	12.7	3.2	1.5	.6	.0	.4	46.4	
	TOT OBS												563
	TOT PCT	2.1	2.9	10.6	44.8	27.7	5.8	2.7	1.5	.0	2.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.2	.2	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.4	.1	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.5	.1	.0	.0	.0	.0	.0	.6	
1<2	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.2	.2	.0	.2	.0	.0	.0		.6	
	11-21	.0	.0	.0	.4	.1	.2	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.2	.6	.1	.3	.0	.0	.0	.0	1.4	
2<5	0-3	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.3	
	4-10	.0	.2	.0	.2	.3	.0	.0	.0	.0		.6	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.0	.3	.6	.0	.0	.0	.0	.0	1.1	
5<10	0-3	.7	.4	1.5	2.3	2.3	.4	.5	.2	.0	1.5	9.7	
	4-10	.0	.8	2.4	9.7	5.5	1.4	.5	.5	.0		20.8	
	11-21	.1	.2	1.2	8.0	5.0	.6	.1	.2	.0		15.6	
	22+	.0	.0	.0	.3	.2	.0	.0	.0	.0		.5	
	TOT %	.8	1.4	5.1	20.3	13.2	2.4	1.0	.8	.0	1.5	46.5	
10+	0-3	.9	.4	.8	1.2	2.5	.8	.6	.6	.0	.5	8.3	
	4-10	.6	1.5	2.9	8.1	4.9	2.0	.7	.2	.0		20.8	
	11-21	.0	*	1.7	12.4	4.6	.5	.0	.0	.0		19.2	
	22+	.0	.0	.2	1.2	.4	.0	.0	.0	.0		1.8	
	TOT %	1.5	1.9	5.6	23.0	12.5	3.2	1.3	.8	.0	.5	50.2	
	TOT OBS												662
	TOT PCT	2.3	3.5	10.9	44.9	26.7	5.9	2.3	1.5	.0	2.0	100.0	

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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
00&03	4.1	.0	.0	6.1	8.2	2.0	.0	2.0	.0	.0	22.4	77.6	49
06&09	.0	.0	2.3	9.3	11.6	4.7	2.3	2.3	.0	.0	32.6	67.4	43
12&15	.0	2.6	.0	5.1	2.6	2.6	5.1	.0	.0	2.6	20.5	79.5	39
18&21	.0	.0	3.0	3.0	9.1	6.1	3.0	.0	.0	6.1	30.3	69.7	33
TOT	2	1	2	10	13	6	4	2	0	3	43	121	164
PCT	1.2	.6	1.2	6.1	7.9	3.7	2.4	1.2	.0	1.8	26.2	73.8	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
00&03	.0	.7	.7	.0	34.6	64.1	153
06&09	.0	.5	1.0	1.5	57.4	39.7	204
12&15	1.7	.9	2.6	.9	44.0	50.0	116
18&21	.0	.5	1.4	1.4	49.3	47.4	213
TOT	2	4	9	7	326	338	666
PCT	.3	.6	1.3	1.0	47.5	49.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	4.2	4.2	10.4	12.5	77.1	48
06&09	.0	2.3	11.6	20.9	67.4	43
12&15	.0	2.6	7.7	12.8	79.5	39
18&21	.0	3.1	6.3	25.0	68.8	32
TOT	2	5	15	28	119	162
PCT	1.2	3.1	9.3	17.3	73.5	100.0

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
85/89	.0	.2	.0	.0	.0	.0	.0	.0	1	.2
80/84	.0	.0	.0	.2	.7	.2	.2	.0	6	1.5
75/79	.0	.0	.2	2.0	1.7	3.5	1.7	1.7	44	10.9
70/74	.0	.2	2.5	3.2	7.9	12.6	10.1	8.4	182	45.0
65/69	.0	.0	2.7	3.7	7.4	8.4	10.6	5.0	153	37.9
60/64	.0	.0	.0	.5	2.0	.5	.5	.7	17	4.2
55/59	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
TOTAL	0	2	22	39	81	102	94	64	404	100.0
PCT	.0	.5	5.4	9.7	20.0	25.2	23.3	15.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
.0	.0	.2	.2	.5	.0	.0	.0	.0	.5
.5	.6	2.5	4.3	1.4	.6	.2	.2	.0	.5
1.1	.9	7.2	21.0	10.4	1.9	1.0	.9	.0	.7
.4	.5	.7	15.7	13.6	4.1	1.5	.8	.0	.5
.0	.0	.0	.8	2.8	.6	.0	.0	.0	.0
.0	.0	.0	.1	.2	.0	.0	.0	.0	.0
2.0	2.0	10.6	42.1	29.1	7.2	2.7	1.9	.0	2.2

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	85	82	78	71	66	61	61	71.4	173
06&09	81	79	77	72	67	65	63	71.8	240
12&15	78	77	75	70	65	62	61	70.0	135
18&21	77	76	74	69	62	60	59	68.7	238
TOT	85	79	76	70	65	61	59	70.4	786

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	18.3	13.5	25.0	27.9	15.4	75	104
06&09	.0	14.2	23.9	26.9	17.9	17.2	74	134
12&15	.0	21.5	16.9	27.7	23.1	10.8	71	65
18&21	.0	11.8	22.7	21.8	26.9	16.8	75	119
TOT	0	66	84	106	100	66	74	422

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.0	1.0	.2	5	.0	1.2
6	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
5	.0	.0	.2	.2	.7	.2	.0	6	.0	1.4
4	.0	.0	.0	.2	.7	.2	.2	6	.0	1.4
3	.0	.0	.2	.7	3.1	.2	.0	18	.0	4.3
2	.0	.0	.2	2.9	3.9	.2	.0	30	.5	6.8
1	.0	.0	.7	4.6	5.1	.0	.0	43	.0	10.4
0	.0	.0	1.0	6.3	3.9	.0	.0	46	.2	10.9
-1	.0	.0	1.0	10.1	3.1	.2	.0	60	.0	14.5
-2	.0	.0	4.8	8.0	1.2	.0	.0	58	.0	14.0
-3	.0	.0	3.9	7.0	1.0	.0	.0	49	.0	11.8
-4	.0	.2	5.6	4.3	.5	.0	.0	36	.2	8.5
-5	.0	.7	3.6	1.0	.0	.0	.0	22	.0	5.3
-6	.0	.2	4.1	.5	.0	.0	.0	20	.0	4.8
-7/-8	.0	1.0	.7	.2	.0	.0	.0	8	.0	1.9
-9/-10	.4	.2	.0	.2	.0	.0	.0	4	.0	.9
-11/-13	.2	.2	.0	.0	.0	.0	.0	2	.0	.5
TOTAL	3		100		96		2		4	410
		11		192		10		414		
PCT	.7	2.7	24.2	46.4	23.2	2.4	.5	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	.0	.0	.0	.0	.0	1.0
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.0	.7	.0	.0	.0	.0	1.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.2	.2	.0	.0	.0	1.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	1.2	.2	.0	.0	.0	1.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	.0	.0	.0	.0	.0	1.0
1-2	.0	2.7	1.5	.0	.0	.0	4.2
3-4	.0	.0	2.9	.0	.0	.0	2.9
5-6	.0	.0	2.7	1.0	.0	.0	3.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.0	2.7	7.1	1.0	.0	.0	11.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.2	.0	.0	.0	.0	2.2
1-2	.2	5.9	5.1	.0	.0	.0	11.3
3-4	.0	3.9	14.2	2.0	.0	.0	20.1
5-6	.0	1.0	10.5	3.2	.0	.0	14.7
7	.0	.0	3.2	1.0	.0	.0	4.2
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	1.0	.0	.0	1.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.0	.0	.0	1.0
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
TOT PCT	.2	13.0	33.3	8.1	.0	.0	54.7

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.0	3.7	.0	.0	.0	.0	5.6
1-2	1.7	3.4	.7	.0	.0	.0	5.9
3-4	.0	1.0	6.1	1.0	.0	.0	8.1
5-6	.0	.0	1.5	1.7	.0	.0	3.2
7	.0	.0	1.7	.0	.0	.0	1.7
8-9	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	3.7	8.1	10.8	2.7	.0	.0	25.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	1.5	.2	.0	.0	.0	1.7
3-4	.0	.0	1.2	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	2.5	1.5	.0	.0	.0	3.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.0	.0	.0	.0	.0	.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	
1-2	.0	.2	.0	.0	.0	.0	.2	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	.0	1.2	.0	.0	.0	.0	1.2	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.9	7.8	.0	.0	.0	.0	12.6	
1-2	1.9	15.3	7.8	.0	.0	.0	25.2	
3-4	.0	4.9	24.3	2.9	.0	.0	32.0	
5-6	.0	1.0	14.6	5.8	.0	.0	21.4	
7	.0	.0	4.9	1.0	.0	.0	5.8	
8-9	.0	.0	1.0	.0	.0	.0	1.0	
10-11	.0	.0	.0	1.0	.0	.0	1.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.0	.0	.0	1.0	
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	
TOT PCT	6.8	29.1	52.4	11.7	.0	.0	100.0	103

PERIOD: (OVER-ALL) 1949-1969

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	10.0	22.9	22.1	3.6	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	3
6-7	.0	2.1	9.3	5.0	5.0	1.4	1.4	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	5
8-9	.0	.0	.0	1.4	.7	.7	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
10-11	.0	.0	.0	.7	.7	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
12-13	.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	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
INDET	1.4	.0	.7	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
TOTAL	16	35	45	16	17	4	4	1	2	0	0	0	0	0	0	0	0	0	0	140	4
PCT	11.4	25.0	32.1	11.4	12.1	2.9	2.9	.7	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1923-1969
(OVER-ALL) 1885-1969

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.2	.0	.0	.0	.0	91.8
NE	3.4	3.4	.0	.0	.0	.0	.0	6.8	.0	3.4	.0	.0	.0	.0	.0	93.2
E	1.5	.0	1.5	.0	.0	.0	.0	2.9	.0	.0	1.5	.0	2.9	.0	.0	92.7
SE	.4	.9	.0	.0	.0	.0	.0	1.1	.7	.0	.5	.0	.0	.0	.0	97.7
S	1.4	.0	.0	.0	.0	.0	.0	1.4	1.7	.0	1.2	1.2	1.2	.0	.0	93.4
SW	.8	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	99.2
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.1	.0	.0	.0	.0	84.9
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	.0	.0	.0	.0	.0	94.1
VAR	.0	.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	8.3	.0	.0	.0	.0	91.7
TOT PCT	.8	.6	.2	.0	.0	.0	.0	1.6	.6	.4	1.4	.2	.6	.0	.0	95.3
TOT OBS:	487															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00609	.0	1.9	.0	.0	.0	.0	.0	1.9	.0	.0	.9	.0	.9	.0	.0	96.3
06609	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.7	.7	.7	.0	.0	97.4
12615	2.3	1.2	.0	.0	.0	.0	.0	3.5	1.2	1.2	1.2	.0	.0	.0	.0	93.0
18621	1.2	.0	.6	.0	.0	.0	.0	1.9	.6	.6	2.5	.0	.6	.0	.0	94.4
TOT PCT	.8	.6	.2	.0	.0	.0	.0	1.6	.6	.4	1.4	.2	.6	.0	.0	95.5
TOT OBS:	507															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	1.9	.2	.0	.0	.0		2.4	6.0	2.5	.8	.9	6.0	2.5	3.8	3.1	1.1
NE	2.0	2.8	.1	.0	.0	.0		4.9	4.8	.0	5.0	1.7	16.5	.8	6.0	3.9	2.7
E	2.5	8.5	3.1	.0	.0	.0		14.0	7.6	5.0	8.0	14.1	19.0	22.5	22.8	13.6	11.1
SE	2.9	22.1	17.7	1.4	.1	.0		44.2	10.5	50.6	51.1	50.0	36.8	39.2	29.9	44.4	47.0
S	1.7	11.6	5.4	.5	.0	.0		19.2	9.1	28.8	22.5	17.1	11.8	18.3	22.3	16.1	21.1
SW	1.5	3.7	1.6	.3	.0	.0		7.1	8.1	8.1	7.1	6.6	3.3	6.7	4.3	8.5	10.4
W	.8	1.1	.5	.3	.0	.0		2.6	6.3	2.5	2.1	2.8	2.7	.0	2.2	4.7	1.9
NW	.6	2.0	.3	.0	.0	.0		2.9	6.6	.0	1.7	6.0	2.7	3.3	5.4	1.2	2.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7							2.7	.0	2.5	1.7	.9	1.1	6.7	3.3	4.7	3.0
TOT OBS	112	404	218	18	1	0	753		8.8	40	119	117	91	30	42	129	135
TOT PCT	14.9	53.7	29.0	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 SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.8	.7	.0	.0	.0		2.4	6.0	1.3	3.1	3.5	2.1
NE	3.7	1.2	.0	.0	.0		4.9	4.8	3.8	8.2	4.7	3.0
E	7.0	6.4	.6	.0	.0		14.0	7.6	7.2	16.2	22.7	12.3
SE	11.6	26.4	5.9	.3	.0		44.2	10.5	50.9	44.2	32.2	45.7
S	6.9	10.6	1.6	.0	.0		19.2	9.1	24.1	14.8	21.3	18.7
SW	3.5	3.2	.3	.1	.0		7.1	8.1	7.6	5.2	4.9	9.5
W	1.4	1.0	.3	.0	.0		2.6	8.3	2.2	2.8	1.6	3.2
NW	1.6	1.3	.0	.0	.0		2.9	6.6	1.3	4.6	4.9	1.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.7						2.7	.0	1.9	1.0	4.1	3.8
TOT OBS	302	382	66	3	0	753		8.8	159	208	122	264
TOT PCT	40.1	50.7	8.8	.4	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1922-1969
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	1.9	13.2	52.8	27.0	4.4	.6	.0	8.9	100.0	159
06&09	1.0	14.4	54.1	24.5	1.0	.0	.0	8.2	100.0	208
12&15	4.1	5.7	57.4	29.5	3.3	.0	.0	9.4	100.0	122
18&21	3.8	12.9	48.1	33.3	1.9	.0	.0	8.9	100.0	264
TOT	20	92	404	218	18	1	0	8.8		753
PCT	2.7	12.2	53.7	29.0	2.4	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.1	.0	.0	.0		.3
NE	1.7	.0	.0	.0		.0
E	8.5	.8	1.3	.0		1.5
SE	26.3	7.7	15.0	1.7		2.9
S	12.8	1.3	4.5	2.6		2.7
SW	4.5	.0	.9	.2		1.7
W	1.3	.8	.0	.0		1.7
NW	1.5	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	4.5	.0	.0	.0		.3
TOT OBS	84	14	29	6	133	2.4
TOT PCT	63.2	10.5	21.8	4.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
E	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	9.8	
SE	.0	.0	.0	3.0	3.4	.2	.0	.0	.0	.0	44.2	
S	.0	.0	.0	.6	4.1	.6	.0	.0	.0	.0	16.0	
SW	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	5.5	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	
TOT OBS	0	0	0	6	10	1	0	0	0	0	116	133
TOT PCT	.0	.0	.0	4.5	7.5	.8	.0	.0	.0	.0	87.2	100.0

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 >500YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >2000	.0	.7	.7	.7	.7	.7	.7	.7
= OR >1000	6.7	7.5	8.2	8.2	8.2	8.2	8.2	8.2
= OR >600	10.4	11.9	12.7	12.7	12.7	12.7	12.7	12.7
= OR >300	10.4	11.9	12.7	12.7	12.7	12.7	12.7	12.7
= OR >150	10.4	11.9	12.7	12.7	12.7	12.7	12.7	12.7
= OR > 0	10.4	11.9	12.7	12.7	12.7	12.7	12.7	12.7
TOTAL	14	16	17	17	17	17	17	17

TOTAL NUMBER OF OBS: 134 PCT FREQ NH <5/8: 87.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
37.1	29.2	12.4	8.8	4.4	2.9	3.6	2.9	3.6	.0	137

JULY

PERIOD: (PRIMARY) 1922-1969
(OVER-ALL) 1885-1969

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.2	.0	.2	.0	.2	.0	.0	.0	.0	.2	.8	
	TOT %	.2	.0	.4	.0	.2	.0	.0	.0	.0	.2	1.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.4	.0	.1	.4	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.4	.0	.1	.4	.0	.0	.0	.0	.0	.8	
5<10	PCP	.0	.4	.2	.3	.3	.1	.0	.0	.0	.0	1.2	
	NO PCP	1.3	3.1	8.8	22.5	9.5	2.8	2.0	2.7	.0	.2	52.8	
	TOT %	1.3	3.5	9.0	22.8	9.8	2.8	2.0	2.7	.0	.2	54.0	
10+	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	1.0	2.1	4.7	21.7	7.5	3.3	.8	.8	.0	2.1	43.9	
	TOT %	1.0	2.1	4.7	21.9	7.5	3.3	.8	.8	.0	2.1	44.1	
	TOT OBS												487
	TOT PCT	2.5	6.0	14.1	44.3	17.8	6.2	3.7	3.5	.0	2.5	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.3	
	4-10	.2	.0	.2	.0	.2	.0	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.3	.0	.2	.0	.0	.0	.0	.2	.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
2<5	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.2	.0	.2	.1	.0	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.0	.2	.3	.0	.0	.0	.0	.0	.8	
5<10	0-3	.2	1.1	1.5	1.5	1.3	.9	.7	.3	.0	.2	7.7	
	4-10	.6	1.4	4.1	9.5	6.8	1.6	.7	1.4	.0		26.1	
	11-21	.2	.2	1.6	8.2	2.7	1.0	.6	.3	.0		14.6	
	22+	.0	.0	.0	.5	.0	.0	.0	.0	.0		.5	
	TOT %	1.0	2.7	7.2	19.7	10.8	3.4	2.0	2.0	.0	.2	48.9	
10+	0-3	.1	.5	.7	1.2	.4	.9	.2	.3	.0	1.9	6.6	
	4-10	1.1	.9	4.1	11.8	3.7	1.8	.5	.6	.0		24.5	
	11-21	.0	.0	1.5	10.5	2.9	.9	.0	.0	.0		15.7	
	22+	.0	.0	.0	1.3	.6	.3	.3	.0	.0		2.5	
	TOT %	1.2	1.9	6.3	24.7	7.6	3.8	1.1	.9	.0	1.9	49.4	
	TOT OBS												636
	TOT PCT	2.4	4.8	13.8	44.7	18.8	7.2	3.0	3.0	.0	2.2	100.0	

JULY

PERIOD: (PRIMARY) 1922-1969
(OVER-ALL) 1885-1969

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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
00&03	.0	.0	.0	2.6	13.2	.0	.0	.0	.0	.0	15.8	84.2	38
06&09	.0	.0	.0	2.8	5.6	.0	.0	.0	.0	.0	8.3	91.7	36
12&15	.0	.0	.0	3.6	7.1	3.6	.0	.0	.0	.0	14.3	85.7	28
18&21	.0	.0	.0	8.8	2.9	.0	.0	.0	.0	.0	11.8	88.2	34
TOT	0	0	0	6	10	1	0	0	0	0	17	119	136
PCT	.0	.0	.0	4.4	7.4	.7	.0	.0	.0	.0	12.5	87.5	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
00&03	.0	.0	.0	.0	38.9	61.1	131
06&09	.0	.0	.5	2.7	56.3	40.4	183
12&15	.0	.9	.0	.0	47.3	51.8	112
18&21	.0	1.7	.0	.0	53.2	45.1	233
TOT	0	5	1	5	331	317	659
PCT	.0	.8	.2	.8	50.2	48.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	2.7	13.5	83.8	37
06&09	.0	.0	5.7	2.9	91.4	35
12&15	.0	.0	3.6	10.7	85.7	28
18&21	.0	.0	8.8	2.9	88.2	34
TOT	0	0	7	10	117	134
PCT	.0	.0	5.2	7.5	87.3	100.0

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
80/84	.0	.0	.0	.0	.2	.5	.2	.2	5	1.2
75/79	.0	.0	.0	2.0	.7	2.5	1.5	1.0	31	7.7
70/74	.0	.0	.2	1.0	5.2	9.7	15.8	5.9	152	37.9
65/69	.0	.0	1.5	3.5	7.2	6.4	16.1	6.2	173	42.8
60/64	.0	.0	.7	1.2	2.0	1.7	2.2	1.5	38	9.4
55/59	.0	.0	.0	.2	.2	.2	.2	.0	4	1.0
TOTAL	0	0	10	32	63	93	146	60	404	100.0
PCT	.0	.0	2.5	7.9	15.6	23.0	36.1	14.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.2	.2	.2	.0	.2	.0	.0	.0	.2
.0	1.5	.6	2.5	1.5	.2	.2	.7	.0	.2
1.6	2.8	7.9	17.3	3.3	2.1	.8	1.9	.0	.2
.6	1.5	5.9	20.4	9.5	2.1	.2	1.1	.0	1.5
.0	.0	.6	2.6	3.2	1.8	1.0	.0	.0	.2
.0	.0	.2	.1	.1	.2	.2	.0	.0	.0
2.2	6.1	15.5	43.2	17.6	6.7	2.5	3.7	.0	2.5

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	82	81	78	69	63	61	55	69.9	156
06&09	86	79	76	70	64	60	58	69.7	207
12&15	76	73	72	68	62	59	59	67.8	125
18&21	84	79	73	66	60	58	56	67.4	263
TOT	86	79	75	69	62	58	55	68.6	751

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	14.0	15.1	24.4	33.7	12.8	76	86
06&09	.0	11.9	18.6	25.4	31.4	12.7	76	118
12&15	.0	10.6	12.1	16.7	45.5	15.2	79	66
18&21	.0	6.9	14.6	22.9	37.5	18.1	79	144
TOT	0	43	64	95	150	62	77	414

JULY

PERIOD: (PRIMARY) 1922-1969
(OVER-ALL) 1885-1969

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.3	1	.0	.3
7/8	.0	.0	.0	.0	.3	.8	.0	4	.0	1.0
6	.0	.0	.0	.0	.3	.3	.0	2	.0	.5
5	.0	.0	.0	.3	1.0	.3	.0	6	.0	1.6
4	.0	.0	.0	.5	2.9	.0	.0	13	.0	3.4
3	.0	.0	.8	1.0	1.8	.3	.0	15	.3	3.6
2	.0	.0	.8	5.7	1.8	.0	.3	33	.3	8.3
1	.0	.0	1.8	9.9	1.0	.0	.0	49	.3	12.5
0	.0	.3	2.3	11.7	1.3	.0	.0	60	.3	15.3
-1	.0	.3	7.0	7.3	.8	.0	.0	59	.3	15.1
-2	.0	.5	8.3	6.0	.0	.0	.0	57	.3	14.5
-3	.0	.5	3.9	2.1	.3	.0	.0	26	.0	6.8
-4	.0	.8	3.9	.3	.0	.0	.0	19	.0	4.9
-5	.0	1.0	2.6	.8	.0	.0	.0	17	.0	4.4
-6	.0	.8	1.6	.0	.0	.0	.0	9	.3	2.1
-7/-8	.0	1.6	1.0	.3	.0	.0	.0	11	.0	2.9
-9/-10	.3	.5	.0	.0	.0	.0	.0	3	.0	.8
-11/-13	.3	.0	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	2	24	131	176	44	6	2	385	7	378
PCT	.5	6.2	34.0	45.7	11.4	1.6	.5	100.0	1.8	98.2

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.4	.0	.0	.0	.0	2.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	2.4	.0	.0	.0	.0	2.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	2.4	.0	.0	.0	.0	2.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.4	2.4	.0	.0	.0	.0	4.8
1-2	.0	.0	1.2	.0	.0	.0	1.2
3-4	.0	1.2	3.3	.0	.0	.0	4.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.9	.0	.0	.0	.9
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
TOT PCT	2.4	3.6	6.3	.0	.0	.0	12.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	4.8	.0	.0	.0	.0	6.0
1-2	.0	6.5	3.9	.0	.0	.0	10.4
3-4	.0	3.6	17.3	2.4	.0	.0	23.2
5-6	.0	.0	2.4	.6	.0	.0	3.0
7	.0	.0	.6	4.8	.0	.0	5.4
8-9	.0	.0	.0	1.2	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.3	.0	.0	.0	.3
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
TOT PCT	1.2	14.9	24.4	8.9	.0	.0	49.4

PERIOD: (OVER-ALL) 1953-1969

JULY

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.1	.0	.0	.0	.0	2.1
1-2	1.2	2.7	.9	.0	.0	.0	4.8
3-4	.0	2.4	4.2	1.2	.0	.0	7.7
5-6	.0	.0	.0	1.8	.0	.0	1.8
7	.0	.0	2.1	.0	.0	.0	2.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.2	7.1	7.1	3.0	.0	.0	18.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	.3	.0	.0	.0	.0	1.5
1-2	.0	4.2	.0	.0	.0	.0	4.2
3-4	.0	.0	1.5	.0	.0	.0	1.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.2	4.5	1.5	.0	.0	.0	7.1

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.0	.0	2.4	.0	.0	2.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.9	.0	2.4	.0	.0	3.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.2	.0	.0	.0	.0	1.2	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	.0	1.2	.0	.0	.0	.0	1.2	96.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.3	10.7	.0	.0	.0	.0	19.0	
1-2	1.2	19.0	6.0	.0	.0	.0	26.2	
3-4	.0	7.1	26.2	6.0	.0	.0	39.3	
5-6	.0	.0	2.4	2.4	.0	.0	4.8	
7	.0	.0	3.6	4.8	.0	.0	8.3	
8-9	.0	.0	.0	1.2	.0	.0	1.2	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	1.2	.0	.0	.0	1.2	
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	
TOT PCT	9.5	36.9	39.3	14.3	.0	.0	100.0	84

PERIOD: (OVER-ALL) 1949-1969

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	17.3	19.1	24.5	7.3	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	78	2
6-7	.0	.9	5.5	1.8	6.4	1.8	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	6
8-9	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
10-11	.0	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
12-13	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	6.4	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	1
TOTAL	26	22	34	12	11	3	1	1	0	0	0	0	0	0	0	0	0	0	0	110	3
PCT	23.6	20.0	30.9	10.9	10.0	2.7	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1889-1969
(OVER-ALL) 1863-1969

AREA 0003 CUMBERLAND ISLANDS
19.7S 148.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.4	.0		90.6
NE	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0		98.2
E	.0	.4	.0	.0	.0	.0	.0	.4	.6	.9	3.9	.0	1.7	.0		92.4
SE	.0	6.0	1.6	.0	.0	.0	.0	7.5	.1	.9	2.4	.0	.4	.0		88.6
S	2.6	2.6	.7	.0	.0	.0	.0	5.9	.0	.0	2.6	.0	2.6	.0		88.8
SW	6.7	.0	.0	.0	.0	.0	.0	6.7	.0	.0	.0	.0	5.0	.0		88.2
W	7.7	.0	.0	.0	.0	.0	.0	7.7	.0	.0	.0	.0	3.8	.0		88.5
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	.0	2.4	.0		95.2
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	11.1	.0	.0	.0	.0		88.9
TOT PCT	.8	2.6	.7	.0	.0	.0	.0	4.1	.3	.8	2.0	.0	2.0	.0		90.8
TOT OBS:	608															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	.0	2.3	1.5	.0	.0	.0	.0	3.8	.8	.0	1.5	.0	2.3	.0		91.5
06609	1.0	1.5	.5	.0	.0	.0	.0	3.0	.0	1.0	1.5	.0	3.0	.0		91.5
12615	.0	3.3	.0	.0	.0	.0	.0	3.3	.8	1.7	1.7	.0	.8	.0		91.7
18621	1.4	3.3	1.0	.0	.0	.0	.0	5.7	.0	.5	2.4	.0	1.0	.0		90.4
TOT PCT	.8	2.6	.8	.0	.0	.0	.0	4.1	.3	.8	1.8	.0	1.8	.0		91.2
TOT OBS:	661															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.5	4.3	.4	.0	.0	.0		6.3	6.1	9.0	1.2	9.9	8.4	5.5	7.9	4.9	4.9
NE	3.4	5.2	.4	.0	.0	.0		9.0	5.1	.6	3.6	10.6	19.3	15.6	14.0	7.3	2.3
E	3.6	11.6	5.1	.4	.0	.0		20.7	8.2	25.6	16.2	24.6	29.7	21.1	26.6	14.6	12.9
SE	4.5	16.1	13.6	1.1	.0	.0		35.4	9.9	31.4	47.0	35.1	32.2	39.1	26.2	35.9	33.9
S	2.4	6.1	3.8	.1	.0	.0		12.4	8.2	17.3	14.8	5.8	1.0	5.5	7.0	17.9	26.8
SW	1.1	1.5	2.3	.0	0	.0		4.9	9.8	2.6	5.2	2.9	2.0	3.1	4.2	8.9	6.7
W	1.1	.8	.2	.0	.0	.0		2.1	4.9	.0	2.8	.4	1.0	.0	2.8	3.3	3.6
NW	1.9	3.5	.7	.0	.0	.0		6.1	5.5	13.5	6.8	7.2	2.5	10.2	6.5	3.6	6.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1							3.1	.0	.0	2.4	3.6	4.0	.0	4.7	3.5	2.7
TOT OBS	181	393	213	12	0	0	799		8.0	39	125	139	101	32	107	144	112
TOT PCT	22.7	49.2	26.7	1.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.0	2.2	.1	.0	.0		6.3	6.1	3.0	9.3	7.4	4.9
NE	6.7	2.3	.0	.0	.0		9.0	5.1	2.9	14.3	14.4	5.1
E	6.6	11.0	1.0	.1	.0		20.7	8.2	18.4	26.8	25.4	13.9
SE	11.0	19.5	4.9	.1	.0		35.4	9.9	43.3	33.9	29.1	35.1
S	5.4	6.4	.6	.0	.0		12.4	8.2	15.4	3.8	6.7	21.8
SW	1.6	2.7	.6	.0	.0		4.9	9.8	4.6	2.5	4.0	7.9
W	1.5	.6	.0	.0	.0		2.1	4.9	2.1	.6	2.2	3.4
NW	4.7	1.4	.0	.0	.0		6.1	5.5	8.4	5.2	7.4	4.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.1						3.1	.0	1.8	3.8	3.6	3.1
TOT OBS	372	368	58	1	0	799		8.0	164	240	139	256
TOT PCT	46.6	46.1	7.3	.1	.0		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1889-1965
(OVER-ALL) 1863-1969

AREA C003 CUMBERLAND ISLANDS
19.7S 148.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.8	20.7	50.0	26.2	1.2	.0	.0	8.0	100.0	164
06&09	3.8	21.3	46.7	27.9	.4	.0	.0	7.8	100.0	240
12&15	3.6	13.7	53.2	27.3	2.2	.0	.0	8.2	100.0	139
18&21	3.1	20.3	48.8	25.4	2.3	.0	.0	8.0	100.0	256
TOT	25	156	393	213	12	0	0	8.0		799
PCT	3.1	19.5	49.2	26.7	1.5	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.7	1.8	1.5	.0		2.0
NE	3.6	.4	1.6	.0		2.2
E	10.9	2.0	8.2	.0		3.1
SE	19.3	6.9	6.9	4.2		3.0
S	5.3	1.3	.7	1.6		2.6
SW	6.0	.0	.7	.7		1.5
W	.0	.0	.0	.0		.0
NW	7.5	.7	.0	.7		1.5
VAR	.0	.0	.0	.0		.0
CALM	1.5	.0	.0	.0		.0
TOT OBS	82	18	27	10	137	2.6
TOT PCT	59.9	13.1	19.7	7.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.7	.7	.0	.0	.0	.0	.0	7.5	
NE	.0	.0	.0	.7	.0	.9	.0	.0	.0	.0	4.0	
E	.0	.0	.0	1.5	2.0	2.6	.7	.0	.0	.0	14.4	
SE	.0	.0	.4	1.5	2.4	2.6	.0	.0	.0	.0	30.7	
S	.0	.0	.4	.0	.0	1.3	.0	.0	.0	.0	7.3	
SW	.0	.0	.0	.7	.7	.0	.0	.0	.0	.0	6.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	8.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
TOT OBS	0	0	1	8	8	10	1	0	0	0	109	137
TOT PCT	.0	.0	.7	5.8	5.8	7.3	.7	.0	.0	.0	79.6	100.0

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 >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	.7	.7	.7	.7	.7	.7	.7	.7
= OR >2000	6.5	7.9	7.9	7.9	7.9	7.9	7.9	7.9
= OR >1000	11.5	13.7	13.7	13.7	13.7	13.7	13.7	13.7
= OR >600	15.1	19.4	19.4	19.4	19.4	19.4	19.4	19.4
= OR >300	15.1	19.4	20.1	20.1	20.1	20.1	20.1	20.1
= OR >150	15.1	19.4	20.1	20.1	20.1	20.1	20.1	20.1
= OR > 0	15.1	19.4	20.1	20.1	20.1	20.1	20.1	20.1
TOTAL	21	27	28	28	28	28	28	28

TOTAL NUMBER OF OBS: 139 PCT FREQ NH <5/8: 79.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
39.8	30.1	11.2	6.3	2.1	8.4	2.1	4.9	4.2 .0	143

AUGUST

PERIOD: (PRIMARY) 1889-1969
(OVER-ALL) 1863-1969

AREA 0003 CUMBERLAND ISLANDS
19.7S 148.0E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.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	
	NO PCP	.0	.0	.2	.8	.3	.0	.0	.0	.0	.0	1.3	
	TOT %	.0	.0	.2	.8	.3	.0	.0	.0	.0	.0	1.3	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.3	.0	.0	.0	.3	.2	.1	.0	.0	.0	1.0	
	TOT %	.3	.0	.0	.0	.3	.2	.1	.0	.0	.0	1.0	
2<5	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.2	.5	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.2	.5	.1	.1	.0	.0	.0	.0	.0	.8	
5<10	PCP	.0	.0	.1	2.4	.5	.3	.2	.0	.0	.0	3.5	
	NO PCP	4.4	6.7	11.4	18.5	7.2	2.6	1.6	4.4	.0	.3	57.2	
	TOT %	4.4	6.7	11.5	20.9	7.7	3.0	1.7	4.4	.0	.3	60.7	
10+	PCP	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0	.5	
	NO PCP	2.3	2.2	6.9	14.9	3.9	1.7	.3	2.3	.0	1.2	35.7	
	TOT %	2.3	2.2	6.9	15.3	4.0	1.7	.3	2.3	.0	1.2	36.2	
	TOT OBS												608
	TOT PCT	7.0	9.1	19.0	37.1	12.5	4.9	2.1	6.8	.0	1.5	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.1	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.2	.0	.1	.0	.0	.0	.0		.4	
	11-21	.0	.0	.0	.7	.1	.0	.0	.0	.0		.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.2	.7	.3	.0	.0	.0	.0	.0	1.3	
1<2	0-3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	4-10	.3	.0	.1	.1	.0	.0	.0	.0	.0		.6	
	11-21	.0	.0	.0	.0	.3	.2	.1	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.3	.1	.1	.3	.2	.1	.0	.0	.0	1.4	
2<5	0-3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	4-10	.0	.0	.2	.1	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.1	.1	.1	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.5	.1	.1	.0	.0	.0	.0	.0	.9	
5<10	0-3	1.3	2.4	2.0	2.9	2.1	.7	1.0	1.7	.0	.4	14.5	
	4-10	2.4	3.3	6.7	10.1	3.0	.5	.4	2.1	.0		28.6	
	11-21	.1	.2	2.1	5.8	2.0	1.4	.1	.1	.0		11.9	
	22+	.0	.0	.1	.4	.1	.0	.0	.0	.0		.6	
	TOT %	3.8	5.9	10.9	19.2	7.2	2.6	1.5	3.9	.0	.4	55.5	
10+	0-3	.4	.9	1.7	2.0	.4	.1	.1	.2	.0	1.7	7.5	
	4-10	1.6	1.7	4.2	6.6	2.8	1.0	.2	1.6	.0		19.7	
	11-21	.4	.1	2.5	7.4	1.3	.9	.0	.7	.0		13.2	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	TOT %	2.3	2.8	8.4	16.1	4.5	2.0	.3	2.5	.0	1.7	40.6	
	TOT OBS												690
	TOT PCT	6.4	9.2	20.3	36.4	12.4	4.8	1.9	6.4	.0	2.2	100.0	

AUGUST

PERIOD: (PRIMARY) 1889-1969
(OVER-ALL) 1863-1969

AREA 0003 CUMBERLAND ISLANDS
19.7S 148.0E

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
00&03	.0	.0	2.6	2.6	7.7	7.7	.0	.0	.0	.0	20.5	79.5	39
06&09	.0	.0	.0	5.4	2.7	5.4	.0	.0	.0	.0	13.5	86.5	37
12&15	.0	.0	.0	6.5	6.5	3.2	.0	.0	.0	.0	16.1	83.9	31
18&21	.0	.0	.0	8.3	5.6	11.1	2.8	.0	.0	.0	27.8	72.2	36
TOT	0	0	1	8	8	10	1	0	0	0	28	115	143
PCT	.0	.0	.7	5.6	5.6	7.0	.7	.0	.0	.0	19.6	80.4	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
00&03	.0	1.4	1.4	.7	41.9	54.7	148
06&09	.4	.9	2.2	1.8	63.0	31.7	227
12&15	.8	.8	.8	.0	61.5	36.2	130
18&21	.0	1.7	.8	.4	62.3	34.7	239
TOT	2	9	10	6	434	283	744
PCT	.3	1.2	1.3	.8	58.3	38.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	2.6	5.3	15.8	78.9	38
06&09	.0	.0	5.6	8.3	86.1	36
12&15	.0	.0	6.5	9.7	83.9	31
18&21	.0	.0	8.8	20.6	70.6	34
TOT	0	1	9	19	111	139
PCT	.0	.7	6.5	13.7	79.9	100.0

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
80/84	.0	.0	.0	.0	.3	.0	.0	.0	1	.3
75/79	.0	.0	.3	.3	1.7	2.3	1.4	1.7	27	7.7
70/74	.0	.3	.9	1.4	7.7	10.0	16.0	10.0	162	46.2
65/69	.0	.0	1.4	2.3	3.1	8.8	11.4	10.8	133	37.9
60/64	.0	.0	.0	1.7	.9	1.4	1.4	2.0	26	7.4
55/59	.0	.0	.0	.0	.0	.3	.3	.0	2	.6
TOTAL	0	1	9	20	48	80	107	86	351	100.0
PCT	.0	.3	2.6	5.7	13.7	22.8	30.5	24.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
.6	.3	1.7	3.7	.9	.0	.0	.0	.0	.3
2.8	4.6	10.5	19.7	2.8	.1	.6	3.8	.0	1.1
1.0	1.9	5.3	18.6	7.1	1.8	.7	1.0	.0	.6
.6	.0	.3	2.0	2.3	1.4	.0	.6	.0	.3
.0	.0	.0	.0	.0	.6	.0	.0	.0	.0
5.1	6.9	18.1	44.0	13.1	3.9	1.3	5.3	.0	2.3

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	85	82	79	71	65	64	61	71.3	165
06&09	84	81	78	72	67	64	62	71.9	259
12&15	80	78	77	70	65	63	63	70.1	149
18&21	78	77	76	69	63	60	59	68.6	266
TOT	85	80	77	70	64	62	59	70.5	839

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	8.9	19.0	25.3	24.1	22.8	77	79
06&09	.0	12.3	17.9	21.7	27.4	20.8	76	106
12&15	.0	9.1	10.6	28.8	30.3	21.2	79	66
18&21	.0	6.2	8.0	20.4	35.4	30.1	82	113
TOT	0	33	50	85	108	88	79	364

AUGUST

PERIOD: (PRIMARY) 1889-1969
(OVER-ALL) 1863-1969

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	WO FOG
11/13	.0	.0	.0	.0	.0	.2	.0	.0	1	.0	.2
9/10	.0	.0	.0	.0	.2	.2	.2	.0	3	.0	.6
7/8	.0	.0	.0	.2	.0	.4	.2	.2	5	.0	.9
6	.0	.0	.0	.0	.2	.8	.0	.0	5	.0	.9
5	.0	.0	.0	.0	1.1	.8	.0	.0	10	.0	1.9
4	.0	.0	.0	.4	2.1	.4	.2	.0	16	.0	3.0
3	.0	.0	.4	2.1	2.1	.4	.4	.0	28	.0	5.3
2	.0	.0	.6	6.0	1.9	.8	.0	.0	49	.0	9.2
1	.0	.0	1.7	5.8	2.8	1.5	.0	.0	63	.0	11.9
0	.0	.4	2.6	8.9	2.6	2.8	.0	.0	92	.8	16.6
-1	.0	.2	3.4	6.6	4.0	.2	.0	.0	76	.2	14.1
-2	.0	.4	6.0	6.6	2.3	.0	.0	.0	81	.9	14.3
-3	.0	.6	2.4	1.5	.9	.2	.0	.0	30	.2	5.5
-4	.0	.9	2.6	1.5	.8	.2	.0	.0	32	.0	6.0
-5	.0	1.7	1.5	.8	.2	.0	.0	.0	22	.0	4.1
-6	.0	.6	.6	.0	.0	.0	.0	.0	6	.0	1.1
-7/-8	.2	.8	.2	.0	.0	.2	.0	.0	7	.0	1.3
-9/-10	.0	.2	.4	.2	.0	.0	.0	.0	4	.0	.8
-11/-13	.0	.2	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	1	31	119	215	112	47	5	1	531	11	520
PCT	.2	5.8	22.4	40.5	21.1	8.9	.9	.2	100.0	2.1	97.9

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	.9	.0	.0	.0	.0	2.2
1-2	.0	.9	.9	.0	.0	.0	1.9
3-4	.0	.9	.0	.0	.0	.0	.9
5-6	.0	.9	.0	.0	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.3	3.8	.9	.0	.0	.0	5.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	4.1	.0	.0	.0	.0	4.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.3	.0	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	5.9	.0	.0	.0	.0	5.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.9	4.7	.0	.0	.0	10.6
3-4	.0	5.9	5.3	.0	.0	.0	11.3
5-6	.0	.9	2.5	.0	.0	.0	3.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	12.8	12.5	.0	.0	.0	25.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	3.8	.0	.0	.0	.0	5.0
1-2	.0	10.0	7.8	.0	.0	.0	17.8
3-4	.0	5.6	7.5	.0	.0	.0	13.1
5-6	.0	.3	1.3	.0	.0	.0	1.6
7	.0	.0	1.3	.0	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	1.3	.0	.0	.0	1.3
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
TOT PCT	1.3	19.7	19.1	.0	.0	.0	40.0

PERIOD: (OVER-ALL) 1963-1969

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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3	1.3	.0	.0	.0	.0	.0	1.3
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.9	4.7	.0	.0	.0	5.6	.0	1.3	1.3	.0	.0	.0	2.5
5-6	.0	.0	1.3	.0	.0	.0	1.3	.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
TOT PCT	.0	2.2	5.9	.0	.0	.0	8.1	1.3	1.3	1.3	.0	.0	.0	3.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	3.8	.0	.0	.0	.0	3.8	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.3	.0	.0	.0	1.9	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.6	1.3	.0	.0	.0	2.8	
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	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	6.9	1.6	.0	.0	.0	8.4	97.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.3	11.3	.0	.0	.0	.0	17.5	
1-2	.0	22.5	13.8	.0	.0	.0	36.3	
3-4	.0	16.3	20.0	.0	.0	.0	36.3	
5-6	.0	2.5	5.0	.0	.0	.0	7.5	
7	.0	.0	1.3	.0	.0	.0	1.3	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	1.3	.0	.0	.0	1.3	
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	
								80
TOT PCT	6.3	52.5	41.3	.0	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1969

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	8.4	22.7	37.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	2
6-7	.0	.0	8.4	5.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	4
8-9	.0	.8	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
10-11	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
12-13	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	5.9	2.5	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	1
TOTAL	17	31	56	12	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	119	3
PCT	14.3	26.1	47.1	10.1	.8	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	2.7	.0	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	97.3
NE	.0	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	99.6
E	.6	.6	.0	.0	.0	.0	.0	1.2	.9	.0	.5	.0	2.3	.0	95.2
SE	1.7	1.7	2.5	.0	.0	.0	.0	5.9	.4	.0	.2	.0	1.5	.0	92.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	.0	94.7
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.9	.0	93.1
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.5	.0	90.5
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	.0	3.6	.0	89.3
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	.0	.0	100.0
TOT PCT	.7	.9	.7	.0	.0	.0	.0	2.2	.4	.0	.7	.0	2.0	.0	94.8
TOT OBS:	460														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.0	1.0	1.0	.0	.0	.0	.0	3.0	.0	.0	1.0	.0	4.0	.0	92.0
06&09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	99.3
12&15	.0	1.0	1.0	.0	.0	.0	.0	2.0	1.0	1.0	1.0	.0	2.0	.0	93.1
18&21	1.3	1.3	.7	.0	.0	.0	.0	3.3	.7	.0	.7	.0	1.3	.0	94.1
TOT PCT	.6	.8	.6	.0	.0	.0	.0	2.0	.4	.2	.6	.0	1.8	.0	94.9
TOT OBS:	488														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.9	5.0	.4	.0	.0	.0		7.3	5.4	2.4	11.9	6.4	7.1	7.4	5.8	6.7	6.8
NE	3.6	9.2	.8	.0	.0	.0		13.6	5.6	3.2	14.4	14.7	22.6	8.1	20.3	8.7	8.2
E	3.2	19.8	9.7	.5	.0	.0		33.3	9.2	16.1	24.8	40.3	35.1	49.3	36.0	34.2	30.4
SE	2.2	12.4	11.3	1.0	.0	.0		26.9	10.8	51.6	26.0	26.7	23.8	27.2	23.8	26.0	26.4
S	2.0	1.5	1.8	.1	.0	.0		5.5	8.4	12.9	6.7	3.1	1.2	4.4	1.2	6.9	10.6
SW	.8	1.1	.3	.0	.0	.0		2.1	6.0	3.2	3.0	1.1	1.8	.7	.6	2.0	4.3
W	.7	.7	.4	.0	.0	.0		1.8	6.4	2.4	4.0	.0	1.8	.0	.6	1.5	3.3
NW	1.7	3.8	1.3	.0	.0	.0		6.8	6.8	4.8	7.4	5.6	6.5	2.9	9.3	7.2	6.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7							2.7	.0	3.2	2.0	2.2	.0	.0	2.3	6.9	3.3
TOT OBS	116	332	161	10	0	0	619		8.3	31	101	90	84	34	86	101	92
TOT PCT	18.7	53.6	26.0	1.6	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.3	1.9	.1	.0	.0		7.3	5.4	9.7	6.8	6.3	6.7
NE	9.5	4.0	.1	.0	.0		13.6	5.6	11.7	18.5	16.9	8.4
E	10.8	19.7	2.8	.0	.0		33.3	9.2	22.7	37.8	39.8	32.4
SE	7.7	14.0	5.0	.2	.0		26.9	10.8	32.0	25.3	24.8	26.2
S	2.6	2.3	.5	.1	.0		5.5	8.4	8.1	2.2	2.1	8.7
SW	1.3	.8	.0	.0	.0		2.1	6.0	3.0	1.4	.6	3.1
W	1.2	.5	.1	.0	.0		1.8	6.4	3.6	.9	.4	2.3
NW	4.3	2.0	.5	.0	.0		6.8	6.8	6.8	6.0	7.5	7.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.7						2.7	.0	2.3	1.1	1.7	5.2
TOT OBS	282	279	56	2	0	619		8.3	132	174	120	193
TOT PCT	45.6	45.1	9.0	.3	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.3	22.7	47.0	25.0	3.0	.0	.0	8.2	100.0	132
06&09	1.1	14.9	54.0	29.9	.0	.0	.0	8.7	100.0	174
12&15	1.7	12.5	55.8	28.3	1.7	.0	.0	8.6	100.0	120
18&21	5.2	14.5	56.5	21.8	2.1	.0	.0	7.7	100.0	193
TOT	17	99	332	161	10	0	0	8.3		619
PCT	2.7	16.0	53.6	26.0	1.6	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.8	.0	.0	.7		1.5
NE	3.8	1.9	1.0	.2		2.6
E	25.5	4.3	3.6	.0		1.6
SE	23.8	7.4	4.3	1.9		2.2
S	2.4	3.6	.7	.0		2.6
SW	.2	.0	1.0	.0		4.8
W	.7	.0	.0	.0		1.0
NW	2.6	.0	.0	.0		.2
VAR	.0	.0	.0	.0		.0
CALM	4.8	1.9	.0	.0		1.2
TOT OBS	71	20	11	3	105	2.0
TOT PCT	67.6	19.0	10.5	2.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	3.8	
NE	.0	.0	.0	1.0	.2	.0	.0	.0	.0	.0	5.7	
E	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	31.7	
SE	.0	.0	.0	1.0	2.1	1.0	.0	.0	.0	.0	33.3	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	
SW	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	
TOT OBS	0	0	0	2	5	1	0	0	0	0	97	105
TOT PCT	.0	.0	.0	1.9	4.8	1.0	.0	.0	.0	.0	92.4	100.0

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 >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >2000	.9	.9	.9	.9	.9	.9	.9	.9
= OR >1000	4.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
= OR >600	5.6	7.4	7.4	7.4	7.4	7.4	7.4	7.4
= OR >300	5.6	7.4	7.4	7.4	7.4	7.4	7.4	7.4
= OR >150	5.6	7.4	7.4	7.4	7.4	7.4	7.4	7.4
= OR > 0	5.6	7.4	7.4	7.4	7.4	7.4	7.4	7.4
TOTAL	6	8	8	8	8	8	8	8

TOTAL NUMBER OF OBS: 108 PCT FREQ NH <5/8: 92.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
30.1	27.4	15.9	9.7	7.1	2.7	.9	.9	5.3	.0	113

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.2	.2	.0	.1	.1	.2	.0	.0	.9	
	TOT %	.0	.0	.2	.4	.0	.1	.1	.2	.0	.0	1.1	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
5<10	PCP	.0	.0	.4	1.1	.0	.0	.0	.0	.0	.0	1.5	
	NO PCP	2.4	9.5	23.3	11.9	2.5	.8	.5	4.3	.0	1.3	56.5	
	TOT %	2.4	9.5	23.8	13.0	2.5	.8	.5	4.3	.0	1.3	58.0	
10+	PCP	.2	.1	.0	.2	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	3.4	4.7	11.8	12.2	3.6	.7	.5	1.3	.0	1.7	40.0	
	TOT %	3.6	4.7	11.8	12.4	3.6	.7	.5	1.3	.0	1.7	40.4	
	TOT OBS												460
	TOT PCT	6.0	14.2	36.0	25.9	6.1	1.6	1.1	6.1	.0	3.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.2	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.1	.1	.2	.0	.0	.4	
	4-10	.0	.0	.1	.1	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.1	.1	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.0	.2	.4	.0	.1	.1	.2	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.2	.0	.0	.0	.0	.0	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.4	
5<10	0-3	.9	2.9	2.2	1.1	.7	.2	.1	1.1	.0	1.3	10.5	
	4-10	1.3	5.1	13.4	5.3	.9	.4	.2	1.9	.0		28.4	
	11-21	.1	.7	5.3	4.5	.7	.3	.2	.9	.0		12.6	
	22+	.0	.0	.4	.8	.0	.0	.0	.0	.0		1.1	
	TOT %	2.3	8.6	21.2	11.8	2.2	.9	.5	3.9	.0	1.3	52.7	
10+	0-3	1.0	.8	.3	1.0	1.4	.6	.3	.4	.0	1.7	7.4	
	4-10	3.0	4.2	6.8	6.3	.8	.4	.1	1.9	.0		23.5	
	11-21	.3	.2	4.7	6.9	1.3	.0	.2	.7	.0		14.3	
	22+	.0	.0	.2	.2	.1	.0	.0	.0	.0		.6	
	TOT %	4.3	5.1	12.0	14.6	3.6	1.0	.6	3.0	.0	1.7	45.8	
	TOT OBS												524
	TOT PCT	6.6	13.9	33.6	26.7	5.8	2.0	1.2	7.3	.0	3.1	100.0	

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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
00&03	.0	.0	.0	.0	9.7	.0	.0	.0	.0	.0	9.7	90.3	31
06&09	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	4.8	95.2	21
12&15	.0	.0	.0	.0	3.1	3.1	.0	.0	.0	.0	6.3	93.8	32
18&21	.0	.0	.0	7.7	.0	.0	.0	.0	.0	.0	7.7	92.3	26
TOT	0	0	0	2	5	1	0	0	0	0	8	102	110
PCT	.0	.0	.0	1.8	4.5	.9	.0	.0	.0	.0	7.3	92.7	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
00&03	.0	.0	1.8	.0	44.7	53.5	114
06&09	.0	.0	.0	.7	64.5	34.9	152
12&15	.9	.0	.9	.9	42.7	54.5	110
18&21	.0	.0	1.1	.0	55.1	43.8	176
TOT	1	0	5	2	293	251	552
PCT	.2	.0	.9	.4	53.1	45.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	.0	9.7	90.3	31
06&09	.0	.0	.0	5.0	95.0	20
12&15	.0	.0	.0	6.3	93.8	32
18&21	.0	.0	8.0	.0	92.0	25
TOT	0	0	2	6	100	108
PCT	.0	.0	1.9	5.6	92.6	100.0

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
85/89	.0	.0	.4	.4	.7	.0	.4	.0	5	1.8
80/84	.0	.0	.4	.4	1.1	1.5	.7	.7	13	4.8
75/79	.0	.0	.0	.7	3.0	11.4	3.7	3.0	59	21.8
70/74	.0	.0	.7	2.6	11.1	18.5	18.8	7.4	160	59.0
65/69	.0	.0	.4	1.5	1.5	3.3	3.3	1.8	32	11.8
60/64	.0	.0	.0	.0	.0	.0	.7	.0	2	.7
TOTAL	0	0	5	15	47	94	75	35	271	100.0
PCT	.0	.0	1.8	5.5	17.3	34.7	27.7	12.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.7	.0	.0	.1	1.0	.0	.0	.0	.0	.0
	.9	1.8	.0	.8	.3	.0	.4	.6	.0	.0
	2.3	4.7	4.2	6.4	1.8	.0	.6	1.0	.0	.7
	4.3	6.2	20.1	20.2	1.2	1.2	.7	2.9	.0	2.2
	.2	.5	1.4	4.1	2.2	1.1	.2	.7	.0	1.5
	.0	.0	.0	.5	.3	.0	.0	.0	.0	.0
	8.5	13.2	25.6	32.0	6.8	2.3	1.9	5.2	.0	4.4

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	87	86	83	74	69	67	63	74.9	134
06&09	85	82	80	74	69	65	64	73.7	182
12&15	76	75	75	71	68	66	65	71.3	124
18&21	82	79	77	71	67	63	63	71.5	202
TOT	87	83	79	73	68	65	63	72.8	642

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	12.5	20.3	32.8	25.0	9.4	74	64
06&09	.0	6.8	21.6	39.2	20.3	12.2	75	74
12&15	.0	9.1	16.4	29.1	30.9	14.5	77	55
18&21	.0	4.3	13.0	32.6	32.6	17.4	79	92
TOT	0	22	50	96	78	39	76	285

SEPTEMBER

PERIOD: (PRIMARY) 1899-1969
(OVER-ALL) 1882-1969

AREA 0003 CUMBERLAND ISLANDS
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.3	1	.0	.3
9/10	.0	.0	.0	.0	.0	.3	1	.0	.3
7/8	.0	.0	.0	.0	.3	.7	3	.0	1.0
6	.0	.0	.0	.3	.7	.0	3	.0	1.0
5	.0	.0	.0	1.6	.3	.0	6	.0	2.0
4	.0	.0	.0	3.3	1.6	.3	16	.0	5.2
3	.0	.3	1.0	2.6	.7	.3	15	.0	4.9
2	.0	.0	2.9	3.9	1.6	.0	26	.3	8.2
1	.0	.3	3.6	7.8	2.3	.0	43	.3	13.7
0	.0	.7	11.8	9.2	1.3	.0	70	.0	22.9
-1	.0	.3	7.5	6.2	.0	.0	43	.0	14.1
-2	.0	2.0	7.8	3.3	.0	.0	40	.0	13.1
-3	.0	1.6	2.6	1.3	.0	.0	17	.0	5.6
-4	.0	1.0	2.6	.0	.0	.0	11	.0	3.6
-5	.0	1.0	1.3	.0	.0	.0	7	.0	2.3
-6	.0	.3	.7	.0	.0	.0	3	.0	1.0
-7/-8	.3	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	1	23	128	121	27	6	306	2	304
PCT	.3	7.5	41.9	39.5	8.8	1.9	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	3.7	.0	.0	.0	.0	3.7
3-4	.0	.0	1.1	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	4.8	1.1	.0	.0	.0	5.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	7.0	.0	.0	.0	.0	7.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	7.4	.0	.0	.0	.0	7.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	9.6	1.1	.0	.0	.0	10.7
3-4	.0	4.4	8.1	.0	.0	.0	12.5
5-6	.0	1.5	5.5	.0	.0	.0	7.0
7	.0	.0	2.9	.0	.0	.0	2.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	15.4	17.6	.0	.0	.0	33.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.5	1.5	.0	.0	.0	.0	2.9
1-2	.0	5.9	1.8	.0	.0	.0	7.7
3-4	.0	3.7	12.9	.0	.0	.0	16.5
5-6	.0	.0	2.6	.0	.0	.0	2.6
7	.0	.0	3.3	.0	.0	.0	3.3
8-9	.0	.0	1.5	.0	.0	.0	1.5
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.5	11.0	22.1	.0	.0	.0	34.6

PERIOD: (OVER-ALL) 1963-1969

SEPTEMBER

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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	1.1	.0	.0	.0	.0	.0	1.1	.4	.0	.0	.0	.0	.0	.4
3-4	.0	2.2	1.1	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	3.7	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.1	.0	.0	.0	1.1	.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
TOT PCT	1.1	2.2	5.9	.0	.0	.0	9.2	.4	.0	.0	.0	.0	.0	.4

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	1.5	.4	.0	.0	.0	.0	1.8	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.4	.0	.0	.0	1.8	
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.4	.0	.0	.0	.4	
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	
TOT PCT	.0	.0	1.1	.0	.0	.0	1.1	1.5	1.8	.7	.0	.0	.0	4.0	95.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.2	2.9	.0	.0	.0	.0	10.1	
1-2	2.9	26.1	2.9	.0	.0	.0	31.9	
3-4	.0	11.6	23.2	.0	.0	.0	34.8	
5-6	.0	1.4	13.0	.0	.0	.0	14.5	
7	.0	.0	7.2	.0	.0	.0	7.2	
8-9	.0	.0	1.4	.0	.0	.0	1.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	10.1	42.0	47.8	.0	.0	.0	100.0	69

PERIOD: (OVER-ALL) 1949-1969

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	5.6	31.5	24.7	10.1	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	3
6-7	.0	.0	3.4	5.6	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2
12-13	.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	
INDET	6.7	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	1
TOTAL	11	31	26	14	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	89	3
PCT	12.4	34.8	29.2	15.7	6.7	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1922-1969
(OVER-ALL) 1885-1969

AREA 0003 CUMBERLAND ISLANDS
19.6S 148.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.3	1.7	.0	.0	.0	.0	.0	5.0	.0	5.0	1.7	.0	.8	.0	90.8
NE	.0	1.7	.0	.0	.0	.0	.0	1.7	.0	.0	.9	.0	5.1	.0	92.3
E	.0	1.5	.0	.0	.0	.0	.0	1.5	1.5	.7	2.6	.0	3.1	.0	90.7
SE	3.7	2.5	1.2	.0	.0	.0	.0	7.4	2.5	.0	4.9	.0	.9	.0	84.3
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.8	.0	.0	.0	85.2
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	80.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	2.6	2.6	.0	.0	.0	.0	.0	5.2	.0	.0	2.6	.0	1.3	.0	91.0
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	9.1	.0	90.9
TOT PCT	1.5	1.7	.2	.0	.0	.0	.0	3.5	1.0	1.0	3.0	.0	2.5	.0	89.5
TOT OBS:	401														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.3	1.1	.0	.0	.0	.0	.0	3.4	2.3	1.1	5.7	.0	2.3	.0	86.4
06&09	.8	.0	.0	.0	.0	.0	.0	.8	.0	.8	3.3	.0	3.3	.0	91.8
12&15	2.4	2.4	.0	.0	.0	.0	.0	4.8	.0	.0	1.2	.0	2.4	.0	91.7
18&21	.8	3.1	.8	.0	.0	.0	.0	4.7	1.6	1.6	3.1	.0	1.6	.0	88.3
TOT PCT	1.4	1.7	.2	.0	.0	.0	.0	3.3	.9	.9	3.3	.0	2.4	.0	89.6
TOT OBS:	422														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	3.4	9.8	.6	.0	.0	.0		13.7	5.7	7.1	17.5	16.2	16.2	10.3	13.5	11.8	12.2
NE	3.5	10.7	1.3	.1	.0	.0		15.6	6.1	19.2	9.2	23.5	18.3	16.9	11.5	15.6	10.8
E	3.8	20.7	9.0	.5	.0	.0		34.0	8.6	30.8	29.3	28.4	36.6	47.8	43.9	31.9	33.1
SE	.8	10.2	9.2	1.3	.0	.0		21.5	11.5	32.7	27.6	21.1	17.6	22.1	16.2	19.6	20.3
S	.2	.8	.7	.0	.0	.0		1.6	9.5	2.6	.0	.7	.0	.0	.7	3.6	4.7
SW	.3	.5	.2	.0	.0	.0		1.0	6.6	.0	1.1	.0	.0	.0	1.4	2.7	1.4
W	.3	.4	.0	.0	.0	.0		.8	4.5	2.6	.6	.0	.0	.0	1.4	.9	1.4
NW	2.6	5.7	.5	.0	.0	.0		8.8	5.4	2.6	12.4	7.1	7.0	.0	8.8	9.6	14.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0							3.0	.0	2.6	2.3	2.9	4.2	2.9	2.7	4.5	1.4
TOT OBS	107	348	127	11	0	0	593		7.9	39	87	102	71	34	74	112	74
TOT PCT	18.0	58.7	21.4	1.9	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	9.1	4.6	.0	.0	.0		13.7	5.7	14.3	16.2	12.5	11.8
NE	9.8	5.6	.1	.0	.0		15.6	6.1	12.3	21.4	13.2	13.7
E	12.7	19.2	2.0	.1	.0		34.0	8.6	29.8	31.8	45.1	32.4
SE	3.5	14.0	3.9	.1	.0		21.5	11.5	29.2	19.7	18.1	19.9
S	.6	.8	.3	.0	.0		1.6	9.5	.8	.4	.5	4.0
SW	.5	.5	.0	.0	.0		1.0	6.6	.8	.0	.9	2.2
W	.6	.2	.0	.0	.0		.8	4.5	1.2	.0	.9	1.1
NW	6.4	2.4	.0	.0	.0		8.8	5.4	9.3	7.1	6.0	11.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.0						3.0	.0	2.4	3.5	2.8	3.2
TOT OBS	274	281	37	1	0	593		7.9	126	173	108	186
TOT PCT	46.2	47.4	6.2	.2	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.4	16.7	57.9	21.4	1.6	.0	.0	7.8	100.0	126
06&09	3.5	12.7	61.8	19.7	2.3	.0	.0	7.8	100.0	173
12&15	2.8	14.8	55.6	24.1	2.8	.0	.0	8.2	100.0	108
18&21	3.2	16.1	58.1	21.5	1.1	.0	.0	7.8	100.0	186
TOT	18	89	348	127	11	0	0	7.9		593
PCT	3.0	15.0	58.7	21.4	1.9	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.3	2.8	.0	.0		1.5
NE	11.6	5.5	2.2	.7		2.5
E	20.0	9.4	6.4	2.0		2.8
SE	13.4	6.6	3.9	2.4		3.1
S	1.3	.0	.0	.0		.5
SW	.0	.0	.0	.0		.0
W	.0	.7	.0	.0		4.0
NW	1.1	.7	.0	.0		1.8
VAR	.0	.0	.0	.0		.0
CALM	1.5	.0	1.5	.0		3.7
TOT OBS	75	35	19	7	136	2.7
TOT PCT	55.1	25.7	14.0	5.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 2499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.0	
NE	.0	.0	.0	.7	.7	.0	.0	.0	.0	.0	18.6	
E	.0	.0	.0	1.5	1.3	2.0	.7	.0	.0	.0	32.4	
SE	.0	.0	.7	.7	2.4	1.7	.0	.0	.0	.0	20.8	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	2.2	
TOT OBS	0	0	1	4	6	6	1	0	0	0	118	136
TOT PCT	.0	.0	.7	2.9	4.4	4.4	.7	.0	.0	.0	86.8	100.0

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 >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	.7	.7	.7	.7	.7	.7	.7	.7
= OR >2000	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
= OR >1000	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
= OR >600	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
= OR >300	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
= OR >150	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
= OR > 0	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
TOTAL	18	18	18	18	18	18	18	18

TOTAL NUMBER OF OBS: 137 PCT FREQ NH <5/8: 86.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
15.0	30.7	21.4	11.4	7.9	2.9	4.3	4.3	2.1	.0	140

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.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	
	NO PCP	.2	.1	.4	1.0	.2	.2	.0	.2	.0	.0	2.5	
	TOT %	.2	.1	.4	1.0	.2	.2	.0	.2	.0	.0	2.5	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.2	.6	.1	.0	.0	.0	.1	.0	.2	1.5	
	TOT %	.1	.2	.6	.1	.0	.0	.0	.1	.0	.2	1.5	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.5	.2	.5	.5	.0	.0	.0	.5	.0	.0	2.2	
	NO PCP	9.9	6.1	14.8	7.1	1.0	1.0	.5	6.2	.0	1.5	48.1	
	TOT %	10.3	6.4	15.3	7.6	1.0	1.0	.5	6.7	.0	1.5	50.4	
10+	PCP	.2	.0	.0	1.0	.0	.0	.0	.0	.0	.0	1.2	
	NO PCP	4.0	7.9	17.8	10.5	.4	.0	.2	2.6	.0	1.0	44.4	
	TOT %	4.2	7.9	17.8	11.5	.4	.0	.2	2.6	.0	1.0	45.6	
	TOT OBS												401
	TOT PCT	15.0	14.7	34.1	20.2	1.7	1.2	.7	9.7	.0	2.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	4-10	.2	.1	.3	.8	.2	.2	.0	.0	.0		1.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.1	.3	.8	.2	.2	.0	.2	.0	.0	2.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.1	.2	.3	.1	.0	.0	.0	.1	.0		.8	
	11-21	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.2	.5	.1	.0	.0	.0	.1	.0	.2	1.2	
2<5	0-3	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.4	
5<10	0-3	2.0	1.0	1.5	.2	.2	.4	.1	1.4	.0	1.2	8.0	
	4-10	5.9	3.5	7.4	2.4	.1	.2	.3	3.4	.0		23.2	
	11-21	.5	.8	3.5	3.3	.5	.2	.0	.6	.0		9.4	
	22+	.0	.1	.5	.8	.0	.0	.0	.0	.0		1.4	
	TOT %	8.4	5.4	12.9	6.7	.8	.8	.4	5.4	.0	1.2	42.1	
10+	0-3	1.4	1.9	1.5	.3	.0	.0	.3	1.0	.0	1.4	7.8	
	4-10	4.2	6.5	13.0	6.7	.6	.0	.2	3.2	.0		34.3	
	11-21	.2	.4	4.9	5.9	.2	.0	.0	.0	.0		11.6	
	22+	.0	.0	.0	.6	.0	.0	.0	.0	.0		.6	
	TOT %	5.8	8.8	19.4	13.5	.8	.0	.5	4.2	.0	1.4	54.3	
	TOT OBS												499
	TOT PCT	14.5	14.5	33.4	21.2	1.8	1.0	.9	9.9	.0	2.8	100.0	

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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
00&03	.0	.0	2.8	2.8	2.8	5.6	.0	.0	.0	.0	13.9	86.1	36
06&09	.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	2.8	97.2	36
12&15	.0	.0	.0	6.1	6.1	.0	.0	.0	.0	.0	12.1	87.9	33
18&21	.0	.0	.0	2.9	8.8	8.8	2.9	.0	.0	.0	23.5	76.5	34
TOT	0	0	1	4	6	6	1	0	0	0	18	121	139
PCT	.0	.0	.7	2.9	4.3	4.3	.7	.0	.0	.0	12.9	87.1	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
00&03	.0	4.6	.9	.0	36.7	57.8	109
06&09	.0	2.7	2.0	.7	46.0	48.7	150
12&15	.0	.0	1.0	.0	37.5	61.5	96
18&21	.0	1.8	.6	.6	49.7	47.3	165
TOT	0	12	6	2	227	273	520
PCT	.0	2.3	1.2	.4	43.7	52.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	2.9	5.7	8.6	85.7	35
06&09	.0	.0	.0	2.9	97.1	35
12&15	.0	.0	6.1	6.1	87.9	33
18&21	.0	.0	2.9	20.6	76.5	34
TOT	0	1	5	13	119	137
PCT	.0	.7	3.6	9.5	86.9	100.0

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
85/89	.0	.0	.0	.0	.0	.0	.0	.7	2	.7
80/84	.0	.0	.0	.7	4.6	1.8	1.1	2.8	31	11.0
75/79	.0	.0	.7	1.8	13.5	24.9	15.3	6.8	177	63.0
70/74	.0	.0	.0	.4	4.6	10.0	7.8	2.1	70	24.9
65/69	.0	.0	.0	.0	.0	.4	.0	.0	1	.4
TOTAL	0	0	2	8	64	104	68	35	281	100.0
PCT	.0	.0	.7	2.8	22.8	37.0	24.2	12.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.4	.0	.0	.0	.0	.0	.1	.0	.0
2.0	2.2	3.0	1.2	.0	.0	.4	2.0	.0	.4
9.9	8.6	22.9	11.9	1.2	.4	.5	4.8	.0	2.8
3.5	4.4	9.4	5.7	.2	.0	.0	1.4	.0	.4
.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
15.6	15.6	35.3	19.1	1.3	.4	.9	8.3	.0	3.6

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	85	83	77	73	72	72	77.4	130
06&09	84	83	82	77	73	71	72	77.0	175
12&15	80	79	79	75	71	70	70	75.0	110
18&21	88	81	79	75	71	69	68	75.0	190
TOT	88	84	81	76	72	70	68	76.1	605

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	4.8	37.1	30.6	17.7	9.7	73	62
06&09	.0	7.2	26.5	41.0	13.3	12.0	74	83
12&15	.0	3.3	14.8	41.0	34.4	6.6	77	61
18&21	.0	.0	19.8	34.1	27.5	18.7	78	91
TOT	0	11	72	109	68	37	76	297

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.3	.0	1	.0	.3
7/8	.0	.0	.9	.3	.0	4	.0	1.2
6	.0	.3	.6	.6	.0	5	.3	1.2
5	.0	.3	1.9	1.5	.3	13	.0	4.0
4	.0	.9	3.1	1.5	.0	18	.3	5.2
3	.0	1.5	4.6	.9	.0	23	.3	6.8
2	.0	4.0	6.8	.6	.3	38	.3	11.4
1	.6	8.0	6.5	.9	.0	52	.6	15.4
0	1.9	9.3	8.0	.9	.0	65	.9	19.1
-1	1.9	11.1	3.1	.3	.0	53	.0	16.4
-2	.9	6.2	1.9	.3	.0	30	.9	8.3
-3	.6	1.9	.6	.0	.0	10	.3	2.8
-4	.3	1.2	.9	.0	.0	8	.0	2.5
-5	.6	.3	.0	.0	.0	3	.0	.9
-6	.3	.0	.0	.0	.0	1	.0	.3
TOTAL	23	146	126	27	2	324	13	311
PCT	7.1	45.1	38.9	8.3	.6	100.0	4.0	96.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	2.6	1.9	.0	.0	.0	.0	4.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	2.6	3.2	.0	.0	.0	.0	5.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	5.1	.0	.0	.0	.0	6.4
1-2	.0	11.2	.0	.0	.0	.0	11.2
3-4	1.3	1.9	.0	.0	.0	.0	3.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	2.6	18.3	.0	.0	.0	.0	20.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.3	.0	.0	.0	.0	2.6
1-2	.0	24.0	.0	.0	.0	.0	24.0
3-4	.0	5.4	4.2	.0	.0	.0	9.6
5-6	.0	1.3	.0	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.3	32.1	4.2	.0	.0	.0	37.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	14.1	1.3	.0	.0	.0	15.4
3-4	.0	5.8	1.0	.0	.0	.0	6.7
5-6	.0	.0	2.6	.0	.0	.0	2.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.3	.0	.0	1.3
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
TOT PCT	.0	19.9	4.8	1.3	.0	.0	26.0

OCTOBER

PERIOD: (OVER-ALL) 1963-1969

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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.0	1.3	.0	.0	.0	2.2	.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
TOT PCT	.0	1.0	1.3	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	1.3	
1-2	1.3	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.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	
TOT PCT	1.3	.0	.0	.0	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	1.3	94.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.8	8.8	.0	.0	.0	.0	17.5	
1-2	5.0	50.0	1.3	.0	.0	.0	56.3	
3-4	1.3	13.8	6.3	.0	.0	.0	21.3	
5-6	.0	1.3	2.5	.0	.0	.0	3.8	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.3	.0	.0	1.3	
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	
TOT PCT	15.0	73.8	10.0	1.3	.0	.0	100.0	80

PERIOD: (OVER-ALL) 1950-1969

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	15.2	39.0	18.1	2.9	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80	2
6-7	.0	.0	3.8	6.7	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	5
9-9	.0	.0	1.9	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	5.7	1.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	1
TOTAL	22	42	28	10	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	105	2
PCT	21.0	40.0	26.7	9.5	1.9	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1884-1969

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.8	2.0	.0	.0	.0	.0	.0	2.8	.0	3.2	.8	.0	9.3	.0	83.8
NE	.6	.3	.6	.0	.0	.0	.0	1.6	1.3	1.3	2.5	.0	4.1	.0	89.3
E	1.5	1.5	.4	.0	.0	.0	.0	3.4	.0	3.8	1.1	.0	1.9	.0	91.3
SE	3.7	3.7	1.2	.0	.0	.0	.0	8.6	1.2	.0	.0	.0	6.1	.0	84.1
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	87.5
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30.8	.0	38.5	.0	30.8
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	1.7	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	5.0	.0	93.3
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	.0	.0	100.0
TOT PCT	1.5	1.8	.5	.0	.0	.0	.0	3.8	.5	2.0	1.3	.0	5.0	.0	87.9
TOT OBS:	397														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00&03	1.3	.0	.0	.0	.0	.0	.0	1.3	.0	.0	1.3	.0	5.3	.0	92.0
06&09	2.4	1.6	.0	.0	.0	.0	.0	4.0	1.6	.8	1.6	.0	6.5	.0	86.3
12&15	2.2	2.2	.0	.0	.0	.0	.0	4.5	.0	5.6	1.1	.0	1.1	.0	88.8
18&21	1.7	2.5	1.7	.0	.0	.0	.0	5.9	.0	1.7	1.7	.0	5.9	.0	84.9
TOT PCT	2.0	1.7	.5	.0	.0	.0	.0	4.2	.5	2.0	1.5	.0	4.9	.0	87.5
TOT OBS:	407														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	11.0	3.6	.4	.0	.0		15.8	8.7	15.2	13.5	22.3	15.8	22.0	11.1	15.3	10.4
NE	2.6	14.9	1.1	.1	.0	.0		18.7	6.8	13.0	18.1	19.8	21.7	22.6	22.9	19.1	10.4
E	1.9	17.9	11.8	.7	.0	.0		32.4	10.4	22.3	28.5	32.2	37.5	36.6	33.3	31.4	35.8
SE	.7	8.2	12.6	.7	.0	.0		22.3	12.6	25.0	26.9	22.8	23.0	16.5	16.0	18.3	30.6
S	.1	1.0	.5	.0	.0	.0		1.6	9.1	3.8	2.3	.0	.0	1.8	1.4	2.5	2.2
SW	.2	.2	.2	.0	.0	.0		.6	6.4	2.2	.0	.0	.0	.0	.0	1.2	1.5
W	.0	.2	.0	.0	.0	.0		.2	5.0	1.6	.0	.0	.0	.0	.0	.0	.7
NW	.8	4.6	1.5	.2	.0	.0		7.1	8.9	14.7	6.2	3.0	2.0	.6	13.9	10.1	6.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0	2.2	4.6	.0	.0	.0	1.4	2.0	1.5
TOT OBS	49	330	178	12	0	0	569		9.6	46	65	101	76	41	72	101	67
TOT PCT	8.6	58.0	31.3	2.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)							HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.2	8.7	.6	.2	.0		15.8	8.7	14.2	19.5	15.0	13.4
NE	10.0	8.3	.4	.0	.0		18.7	6.8	16.0	20.6	22.8	15.6
E	8.1	18.9	5.4	.0	.0		32.4	10.4	25.9	34.5	34.5	33.2
SE	2.8	12.9	6.6	.0	.0		22.3	12.6	26.1	22.9	16.2	23.2
S	.6	.8	.2	.0	.0		1.6	9.1	2.9	.0	1.5	2.4
SW	.4	.2	.0	.0	.0		.6	6.4	.9	.0	.0	1.3
W	.2	.0	.0	.0	.0		.2	5.0	.7	.0	.0	.3
NW	2.5	3.9	.7	.0	.0		7.1	8.9	9.7	2.5	9.1	8.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	3.6	.0	.9	1.8
TOT OBS	183	306	79	1	0	569		9.6	111	177	113	168
TOT PCT	32.2	53.8	13.9	.2	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.6	9.0	54.1	32.4	.9	.0	.0	9.2	100.0	111
06&09	.0	6.2	54.8	35.6	3.4	.0	.0	10.4	100.0	177
12&15	.9	7.1	56.6	32.7	2.7	.0	.0	9.7	100.0	113
18&21	1.8	7.1	64.9	25.0	1.2	.0	.0	9.0	100.0	168
TOT	8	41	330	178	12	0	0	9.6		569
PCT	1.4	7.2	58.0	31.3	2.1	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.9	7.4	4.7	.7		3.3
NE	11.9	4.5	3.2	.0		2.2
E	14.4	6.2	3.0	.0		2.3
SE	7.7	7.9	4.4	2.0		3.5
S	2.2	.0	.0	.0		1.1
SW	.8	.0	.0	.0		.4
W	.5	.0	.0	.0		1.0
NW	3.2	2.9	1.5	.7		3.2
VAR	.0	.0	.0	.0		.0
CALM	1.3	.0	.0	.0		1.0
TOT OBS	76	43	25	5	149	2.8
TOT PCT	51.0	28.9	16.8	3.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	3.0	1.2	.0	.0	.0	.0	.0	17.4	
NE	.0	.0	.0	.3	.8	.0	.0	.0	.0	.0	18.5	
E	.0	.0	.7	.0	.0	.0	.0	.3	.0	.0	22.7	
SE	.0	.0	.0	.0	2.7	.7	.0	.3	.0	.0	18.3	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
NW	.0	.0	.0	.7	.0	.7	.0	.0	.0	.0	6.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
TOT OBS	0	0	1	6	7	2	0	1	0	0	132	149
TOT PCT	.0	.0	.7	4.0	4.7	1.3	.0	.7	.0	.0	88.6	100.0

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 >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.7	.7	.7	.7	.7	.7	.7	.7
= OR >3500	.7	.7	.7	.7	.7	.7	.7	.7
= OR >2000	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >1000	6.0	6.0	6.6	6.6	6.6	6.6	6.6	6.6
= OR >600	8.6	9.9	10.6	10.6	10.6	10.6	10.6	10.6
= OR >300	9.3	10.6	11.3	11.3	11.3	11.3	11.3	11.3
= OR >150	9.3	10.6	11.3	11.3	11.3	11.3	11.3	11.3
= OR > 0	9.3	10.6	11.3	11.3	11.3	11.3	11.3	11.3
TOTAL	14	16	17	17	17	17	17	17

TOTAL NUMBER OF OBS: 151 PCT FREQ NH <5/8: 88.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
15.2	29.0	21.3	18.9	8.5	3.0	3.0	3.0	1.8	.0	164

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PERIOD: (PRIMARY) 1921-1969
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.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	
	NO PCP	.1	.4	.0	.0	.0	.3	.0	.0	.0	.0	.8	
	TOT %	.1	.4	.0	.0	.0	.3	.0	.0	.0	.0	.8	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.3	.1	.1	1.0	.0	.0	.0	.0	.0	.0	1.5	
	TOT %	.3	.1	.1	1.0	.0	.0	.0	.0	.0	.0	1.5	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.1	.6	.3	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	.0	.1	.6	.3	.0	.0	.0	.0	.0	.0	1.0	
5<10	PCP	.3	.3	1.1	1.5	.0	.0	.0	.1	.0	.0	3.3	
	NO PCP	5.9	9.2	15.9	8.6	.5	.3	.0	4.4	.0	.3	45.1	
	TOT %	6.1	9.5	17.1	10.1	.5	.3	.0	4.5	.0	.3	48.4	
10+	PCP	.2	.1	.0	.3	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	8.9	9.9	15.1	8.9	1.0	.3	.2	3.0	.0	.5	47.8	
	TOT %	9.1	9.9	15.1	9.2	1.0	.3	.2	3.0	.0	.5	48.4	
	TOT OBS												395
	TOT PCT	15.6	20.1	32.9	20.6	1.5	.8	.2	7.5	.0	.8	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	4-10	.1	.3	.0	.0	.0	.0	.0	.0	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.3	.0	.0	.0	.2	.0	.0	.0	.0	.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.1	.1	.0	.0	.0	.0	.0	.0		.4	
	11-21	.0	.0	.0	.8	.0	.0	.0	.0	.0		.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.1	.1	.8	.0	.0	.0	.0	.0	.0	1.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.5	.0	.0	.0	.0	.0	.0		.6	
	11-21	.0	.0	.4	.4	.0	.0	.0	.0	.0		.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.9	.4	.0	.0	.0	.0	.0	.0	1.5	
5<10	0-3	.0	1.7	.5	.1	.0	.0	.0	.6	.0	.4	3.4	
	4-10	3.3	5.5	7.8	4.4	.0	.2	.0	2.3	.0		23.6	
	11-21	1.8	.6	5.8	4.1	.4	.0	.0	1.0	.0		13.7	
	22+	.4	.1	.3	.4	.0	.0	.0	.2	.0		1.5	
	TOT %	5.5	7.9	14.5	9.1	.4	.2	.0	4.2	.0	.4	42.2	
10+	0-3	.5	.3	.9	.1	.1	.0	.0	.1	.0	1.1	3.2	
	4-10	6.7	9.5	10.1	3.5	1.0	.1	.3	2.1	.0		33.3	
	11-21	1.0	.5	7.1	7.8	.2	.2	.0	.5	.0		17.3	
	22+	.0	.0	.3	.4	.0	.0	.0	.0	.0		.6	
	TOT %	8.2	10.4	18.5	11.8	1.3	.3	.3	2.7	.0	1.1	54.4	
	TOT OBS												474
	TOT PCT	14.1	18.8	34.0	22.1	1.7	.7	.3	6.9	.0	1.5	100.0	

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PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1884-1969

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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
00&03	.0	.0	.0	4.3	2.1	2.1	.0	2.1	.0	.0	10.6	89.4	47
06&09	.0	.0	2.6	.0	7.7	.0	.0	.0	.0	.0	10.3	89.7	39
12&15	.0	.0	.0	2.5	5.0	2.5	.0	.0	.0	.0	10.0	90.0	40
18&21	.0	.0	.0	8.1	2.7	.0	.0	.0	.0	.0	10.8	89.2	37
TOT	0	0	1	6	7	2	0	1	0	0	17	146	163
PCT	.0	.0	.6	3.7	4.3	1.2	.0	.6	.0	.0	10.4	89.6	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
00&03	.0	1.1	.0	2.2	30.0	66.7	90
06&09	.0	1.3	2.0	1.3	42.4	53.0	151
12&15	.0	.0	.0	1.0	40.2	58.8	97
18&21	.0	.7	2.1	1.4	52.1	43.8	146
TOT	0	4	6	7	206	261	484
PCT	.0	.8	1.2	1.4	42.6	53.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	6.7	4.4	88.9	45
06&09	.0	2.8	2.8	8.3	88.9	36
12&15	.0	.0	2.7	8.1	89.2	37
18&21	.0	.0	9.1	3.0	87.9	33
TOT	0	1	8	9	134	151
PCT	.0	.7	5.3	6.0	88.7	100.0

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
90/94	.0	.0	.0	.3	.0	.0	.0	.0	1	.3
85/89	.0	.0	.3	.3	.3	1.0	.0	.0	6	2.1
80/84	.0	.0	.0	1.0	6.9	8.0	7.3	2.1	73	25.3
75/79	.0	.0	.0	.3	5.2	32.9	22.5	4.5	189	65.4
70/74	.0	.0	.0	.0	1.0	3.5	2.1	.3	20	6.9
TOTAL	0	0	1	6	39	131	92	20	289	100.0
PCT	.0	.0	.3	2.1	13.5	45.3	31.8	6.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.3	.0	.0	.0	.0	.0	.0
.0	.3	1.1	.0	.0	.3	.3	.1	.0	.0
7.6	5.5	5.9	3.1	.3	.0	.0	2.8	.0	.0
7.9	13.7	22.2	13.9	1.2	.1	.0	5.4	.0	1.0
.7	1.6	2.1	1.8	.3	.0	.0	.5	.0	.0
16.2	21.0	31.3	19.2	1.8	.4	.3	8.7	.0	1.0

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	90	85	79	75	69	69	79.8	110
06&09	86	85	83	79	74	73	73	78.9	174
12&15	81	80	80	77	74	73	73	77.3	113
18&21	83	82	81	77	74	73	73	77.2	172
TOT	91	86	83	78	74	73	69	78.2	569

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	5.2	25.9	44.8	20.7	3.4	73	58
06&09	.0	5.4	16.1	41.9	26.9	9.7	77	93
12&15	.0	.0	6.6	49.2	34.4	9.8	80	61
18&21	.0	.0	8.3	44.0	42.9	4.8	79	84
TOT	0	8	41	132	94	21	77	296

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PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1884-1969

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.3	1	.0	.3
9/10	.0	.0	.0	.0	.3	1	.0	.3
7/8	.0	.0	.3	.0	.0	1	.0	.3
5	.0	1.3	.3	.6	.0	7	.0	2.2
4	.0	1.0	2.2	.6	.0	12	.0	3.8
3	1.0	.6	2.9	.3	.0	15	.0	4.8
2	.3	5.7	3.2	.3	.0	30	.0	9.
1	3.2	9.9	3.2	.0	.0	51	.6	15.6
0	2.9	14.3	3.5	.0	.0	65	.6	20.1
-1	5.7	10.8	1.3	.0	.0	56	.3	17.5
-2	6.4	8.0	.0	.0	.0	45	.0	14.3
-3	1.0	2.9	.3	.0	.0	13	.0	4.1
-4	1.6	1.3	.0	.0	.0	9	.0	2.9
-5	1.0	.6	.0	.0	.0	5	.0	1.6
-6	.0	.3	.0	.0	.0	1	.0	.3
-7/-8	.0	.3	.0	.0	.0	1	.0	.3
-9/-10	.3	.0	.0	.0	.0	1	.0	.3
TOTAL	73	179	54	6	2	314	5	309
PCT	23.2	57.0	17.2	1.9	.6	100.0	1.6	98.4

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	2.4	.0	.0	.0	.0	3.6
1-2	.0	9.2	.0	.0	.0	.0	9.2
3-4	.0	1.2	1.8	.0	.0	.0	3.0
5-6	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.2	12.8	3.0	.0	.0	.0	17.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	17.0	.0	.0	.0	.0	17.0
3-4	.0	2.7	.6	.0	.0	.0	3.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	1.2	.0	.0	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	22.0	.6	.0	.0	.0	22.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	1.2	.0	.0	.0	.0	2.4
1-2	.0	12.2	1.2	.0	.0	.0	13.4
3-4	.0	2.1	6.3	.0	.0	.0	8.3
5-6	.0	.0	2.1	.0	.0	.0	2.1
7	.0	1.2	.0	.0	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.2	16.7	9.5	.0	.0	.0	27.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.5	.0	.0	.0	.0	4.5
3-4	.0	.0	11.6	.0	.0	.0	11.6
5-6	.0	.0	2.7	.0	.0	.0	2.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	1.2	.0	.0	.0	1.2
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
TOT PCT	.0	4.5	15.5	.0	.0	.0	19.9

PERIOD: (OVER-ALL) 1963-1969

NOVEMBER

TABLE 18 (CONT)

AREA 0003 CUMBERLAND ISLANDS
19.8S 148.3E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.9	.0	.0	.0	.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.9	.9	.0	.0	.0	1.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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	.3	.0	.0	.0	.0	.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.9	.0	.0	.0	.0	.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	2.7	.0	.0	.0	.0	2.7	
3-4	.0	1.2	2.7	.0	.0	.0	3.9	
5-6	.0	1.2	.0	.0	.0	.0	1.2	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	5.1	2.7	.0	.0	.0	7.7	97.6
TOT PCT	.0	5.1	2.7	.0	.0	.0	7.7	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.8	5.8	.0	.0	.0	.0	11.6	
1-2	.0	46.5	1.2	.0	.0	.0	47.7	
3-4	.0	7.0	23.3	.0	.0	.0	30.2	
5-6	.0	1.2	5.8	.0	.0	.0	7.0	
7	.0	1.2	.0	.0	.0	.0	1.2	
8-9	.0	1.2	.0	.0	.0	.0	1.2	
10-11	.0	.0	1.2	.0	.0	.0	1.2	
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	
TOT PCT	5.8	62.8	31.4	.0	.0	.0	100.0	86

PERIOD: (OVER-ALL) 1949-1969

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	5.3	38.6	22.8	4.4	1.8	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	3
6-7	.0	.9	3.5	3.5	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	5
8-9	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.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	
INDET	2.6	5.3	2.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	2
TOTAL	9	51	33	10	9	1	1	0	0	0	0	0	0	0	0	0	0	0	0	114	3
PCT	7.9	44.7	28.9	8.8	7.9	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1880-1969

AREA 0003 CUMBERLAND ISLANDS
19.7S 148.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	4.5	.0	.0	.0	.0	.0	4.5	1.3	6.3	6.3	.0	.9	.0	80.7
NE	1.5	5.4	.0	.0	.0	.0	.0	6.9	3.5	1.5	2.3	.0	.0	.0	85.8
E	1.6	5.7	1.6	.0	.0	.0	.0	8.9	2.0	2.4	4.9	.0	.8	.0	81.3
SE	4.0	5.3	1.3	.0	.0	.0	.0	10.7	.7	2.7	2.0	.0	.0	.0	85.3
S	.0	37.8	.0	.0	.0	.0	.0	37.8	.0	.0	8.9	.0	.0	.0	53.3
SW	.0	14.3	.0	.0	.0	.0	.0	14.3	.0	.0	19.0	.0	.0	.0	66.7
W	18.2	.0	.0	.0	.0	.0	.0	18.2	.0	.0	.0	.0	.0	.0	81.8
NW	2.3	4.7	.0	.0	.0	.0	.0	7.0	2.3	1.2	2.3	.0	5.8	.0	81.4
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	25.0	.0	.0	.0	.0	.0	75.0
TOT PCT	2.1	6.2	.8	.0	.0	.0	.0	9.0	2.1	2.6	3.9	.0	1.0	.0	81.7
TOT OBS:	388														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.3	6.7	.0	.0	.0	.0	.0	10.0	3.3	.0	3.3	.0	1.1	.0	82.2
06&09	2.6	5.2	.9	.0	.0	.0	.0	8.7	1.7	1.7	4.3	.0	.9	.0	82.6
12&15	1.2	7.4	.0	.0	.0	.0	.0	8.6	.0	4.9	2.5	.0	.0	.0	84.0
18&21	.9	6.4	1.8	.0	.0	.0	.0	9.2	2.8	3.7	5.5	.0	1.8	.0	78.0
TOT PCT	2.0	6.3	.8	.0	.0	.0	.0	9.1	2.0	2.5	4.1	.0	1.0	.0	81.5
TOT OBS:	395														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	10.3	3.1	.1	.0	.0		14.8	8.0	17.1	15.9	11.4	17.8	18.8	15.7	14.1	12.1
NE	2.4	13.5	1.8	.0	.0	.0		17.7	6.8	14.0	14.1	20.1	29.2	13.9	19.4	16.1	11.7
E	1.9	19.9	8.6	1.2	.0	.0		31.6	10.0	31.7	29.4	31.8	32.2	35.4	37.3	30.5	27.3
SE	1.4	10.2	7.1	.6	.0	.0		19.2	10.8	19.5	22.4	23.8	9.8	24.3	12.7	16.1	25.4
S	.1	1.7	.8	.0	.0	.0		2.6	9.4	.0	5.9	1.0	2.3	2.1	.0	4.0	3.8
SW	.2	1.1	.2	.0	.0	.0		1.5	6.7	2.4	.6	1.9	.8	.7	.0	.9	4.5
W	.1	1.0	.2	.0	.0	.0		1.3	7.8	2.4	1.2	.0	.8	.0	.0	3.2	3.0
NW	1.6	6.1	2.8	.1	.0	.0		10.6	8.1	12.8	10.6	8.0	7.2	4.9	14.9	14.1	10.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0	.0	.0	1.9	.0	.0	.0	1.1	1.5
TOT OBS	53	352	135	11	0	0	551		8.9	41	85	103	66	36	67	87	66
TOT PCT	9.6	63.9	24.5	2.0	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.7	7.7	.5	.0	.0		14.8	8.0	16.3	13.9	16.7	13.2
NE	9.8	7.8	.1	.0	.0		17.7	6.8	14.1	23.7	17.5	14.2
E	7.9	19.2	4.5	.0	.0		31.6	10.0	30.2	32.0	36.7	29.1
SE	4.6	10.9	3.5	.2	.0		19.2	10.8	21.4	18.3	16.7	20.1
S	.7	1.7	.2	.0	.0		2.6	9.4	4.0	1.5	.7	3.9
SW	1.0	.4	.1	.0	.0		1.5	6.7	1.2	1.5	.2	2.5
W	.6	.6	.1	.0	.0		1.3	7.8	1.6	.3	.0	3.1
NW	4.5	5.6	.5	.0	.0		10.6	8.1	11.3	7.7	11.4	12.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.7						.7	.0	.0	1.2	.0	1.3
TOT OBS	201	297	52	1	0	551		8.9	126	169	103	153
TOT PCT	36.5	53.9	9.4	.2	.0		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1880-1969

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	14.3	57.1	27.0	1.6	.0	.0	8.7	100.0	126
06&09	1.2	8.9	63.3	24.9	1.8	.0	.0	9.1	100.0	169
12&15	.0	3.9	68.0	26.2	1.9	.0	.0	9.7	100.0	103
18&21	1.3	7.8	67.3	20.9	2.6	.0	.0	8.4	100.0	153
TOT	4	49	352	135	11	0	0	8.9		551
PCT	.7	8.9	63.9	24.5	2.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.5	3.1	4.1	1.4		4.0
NE	4.9	2.0	4.3	1.0		3.6
E	12.2	11.2	7.9	7.3		4.1
SE	9.3	6.7	6.9	1.4		3.4
S	.0	.0	.0	.6		8.0
SW	.8	.0	.0	.2		1.6
W	.0	.0	.0	.0		.0
NW	5.1	.6	.4	1.6		2.8
VAR	.0	.0	.0	.0		.0
CALM	.8	.8	.0	.0		1.5
TOT OBS	49	31	30	17	127	3.7
TOT PCT	38.6	24.4	23.6	13.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	2.0	1.4	.0	.0	.0	.0	10.8	
NE	.0	.0	.0	.0	1.0	.8	.0	.0	.0	.0	10.4	
E	.0	.0	.6	3.5	2.2	.0	.0	.0	.0	.6	31.7	
SE	.0	.0	1.0	1.2	1.0	1.6	.0	.0	.0	.2	19.3	
S	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	
SW	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.8	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.8	.8	.2	.2	.0	.0	.0	.0	5.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	
TOT OBS	0	0	4	7	8	5	0	0	0	1	102	127
TOT PCT	.0	.0	3.1	5.5	6.3	3.9	.0	.0	.0	.8	80.3	100.0

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 >50YD	= OR >0
= OR >6500	.8	.8	.8	.8	.8	.8	.8	.8
= OR >5000	.8	.8	.8	.8	.8	.8	.8	.8
= OR >3500	.8	.8	.8	.8	.8	.8	.8	.8
= OR >2000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
= OR >1000	9.4	11.0	11.0	11.0	11.0	11.0	11.0	11.0
= OR >600	13.4	15.0	16.5	16.5	16.5	16.5	16.5	16.5
= OR >300	14.2	16.5	19.7	19.7	19.7	19.7	19.7	19.7
= OR >150	14.2	16.5	19.7	19.7	19.7	19.7	19.7	19.7
= OR > 0	14.2	16.5	19.7	19.7	19.7	19.7	19.7	19.7
TOTAL	18	21	25	25	25	25	25	25

TOTAL NUMBER OF OBS: 127

PCT FREQ NH <5/8: 80.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	.0	TOTAL OBS
10.3	20.7	21.4	17.2	9.0	4.1	4.8	2.8	9.7	.0	145

DECEMBER

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1880-1969

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.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	
	NO PCP	.8	.3	1.4	.4	.3	.3	.0	.3	.0	.0	3.6	
	TOT %	.8	.3	1.4	.4	.3	.3	.0	.3	.0	.0	3.6	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.1	.0	.3	.0	.0	.0	.0	.4	.0	.0	.8	
	NO PCP	.0	.0	.2	.3	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.1	.0	.5	.3	.0	.0	.0	.4	.0	.0	1.3	
5<10	PCP	.5	1.2	2.1	1.8	1.1	.2	.3	.4	.0	.0	7.5	
	NO PCP	5.5	7.1	10.4	7.2	1.5	.6	.5	6.3	.0	.3	39.4	
	TOT %	6.0	8.2	12.5	9.0	2.6	.8	.8	6.6	.0	.3	46.9	
10+	PCP	.0	.0	.5	.3	.0	.0	.0	.0	.0	.0	.8	
	NO PCP	7.5	8.2	16.9	9.3	.0	.3	.6	3.8	.0	.8	47.4	
	TOT %	7.5	8.2	17.4	9.6	.0	.3	.6	3.8	.0	.8	48.2	
	TOT OBS												388
	TOT PCT	14.4	16.8	31.8	19.3	2.9	1.4	1.4	11.1	.0	1.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.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	
	4-10	.7	.0	1.0	.1	.0	.2	.0	.2	.0		2.2	
	11-21	.0	.2	.3	.3	.2	.0	.0	.0	.0		1.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.7	.2	1.3	.4	.2	.2	.0	.2	.0	.0	3.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.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	
	4-10	.0	.0	.0	.0	.0	.0	.0	.2	.0		.2	
	11-21	.1	.0	.5	.2	.0	.0	.0	.1	.0		.9	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.1	.0	.5	.4	.0	.0	.0	.3	.0	.0	1.3	
5<10	0-3	.7	.7	1.3	1.4	.1	.2	.1	1.6	.0	.2	6.3	
	4-10	3.3	6.3	6.4	4.9	1.7	.5	.5	3.4	.0		26.9	
	11-21	1.5	.9	3.0	1.4	.4	.0	.0	.8	.0		8.0	
	22+	.1	.0	.3	.1	.0	.0	.0	.1	.0		.7	
	TOT %	5.6	7.8	11.1	7.8	2.2	.7	.7	5.8	.0	.2	41.9	
10+	0-3	.7	1.4	.4	.1	.0	.0	.0	.0	.0	.7	3.3	
	4-10	5.5	7.4	12.6	5.3	.0	.2	.4	1.7	.0		33.2	
	11-21	1.8	.6	5.7	5.7	.2	.1	.1	1.8	.0		16.1	
	22+	.0	.0	.7	.4	.0	.0	.0	.0	.0		1.1	
	TOT %	8.0	9.3	19.5	11.4	.2	.3	.5	3.5	.0	.7	53.6	
	TOT OBS												461
	TOT PCT	14.4	17.4	32.4	20.1	2.7	1.2	1.2	9.9	.0	.9	100.0	

DECEMBER

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1880-1969

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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
00&03	.0	.0	4.8	7.1	4.8	2.4	.0	.0	.0	.0	19.0	81.0	42
06&09	.0	.0	2.6	2.6	7.9	2.6	.0	.0	.0	.0	15.8	84.2	38
12&15	.0	.0	3.1	3.1	6.3	6.3	.0	.0	.0	.0	18.8	81.3	32
18&21	.0	.0	.0	7.4	3.7	3.7	.0	.0	.0	3.7	18.5	81.5	27
TOT	0	0	4	7	8	5	0	0	0	1	25	114	139
PCT	.0	.0	2.9	5.0	5.8	3.6	.0	.0	.0	.7	18.0	82.0	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
00&03	.0	2.8	.0	2.8	34.3	60.2	108
06&09	.0	3.6	.0	.7	44.5	51.1	137
12&15	.0	2.2	.0	2.2	38.9	56.7	90
18&21	.0	4.5	.0	.0	49.6	45.9	133
TOT	0	16	0	6	199	247	468
PCT	.0	3.4	.0	1.3	42.5	52.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	5.3	13.2	7.9	78.9	38
06&09	.0	2.9	5.9	11.8	82.4	34
12&15	.0	3.2	6.5	12.9	80.6	31
18&21	.0	.0	8.3	12.5	79.2	24
TOT	0	4	11	14	102	127
PCT	.0	3.1	8.7	11.0	80.3	100.0

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
90/94	.0	.0	.0	.0	.4	.4	.4	.0	3	1.3
85/89	.0	.0	.0	.4	1.7	3.3	1.3	.0	16	6.7
80/84	.0	.0	.0	1.3	6.3	17.6	21.3	5.4	124	51.9
75/79	.0	.0	.0	.0	4.6	11.3	14.2	9.2	94	39.3
70/74	.0	.0	.0	.0	.0	.0	.0	.8	2	.8
TOTAL	0	0	0	4	31	78	89	37	239	100.0
PCT	.0	.0	.0	1.7	13.0	32.6	37.2	15.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.3	.3	.0	.0	.0	.0	.4	.0	.0
1.2	1.3	1.4	2.4	.0	.0	.0	.5	.0	.0
9.8	8.5	15.1	8.2	.0	.4	.4	9.5	.0	.0
4.0	6.5	12.4	10.4	.5	.5	.6	3.1	.0	1.3
.0	.4	.0	.0	.0	.0	.4	.0	.0	.0
15.2	16.9	29.2	20.9	.5	.9	1.5	13.6	.0	1.3

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	89	88	86	82	77	75	75	81.6	125
06&09	91	90	87	81	77	75	74	81.4	170
12&15	85	84	83	79	77	74	74	79.6	104
18&21	88	85	83	79	76	74	73	79.4	157
TOT	91	88	85	80	76	74	73	80.5	556

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	1.8	16.1	35.7	30.4	16.1	79	56
06&09	.0	4.1	20.3	35.1	28.4	12.2	77	74
12&15	.0	.0	7.8	33.3	47.1	11.8	81	51
18&21	.0	.0	4.9	24.6	45.9	24.6	83	61
TOT	0	4	31	78	90	39	80	242

DECEMBER

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1880-1969

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.3	1	.0	.3
7/8	.0	.3	.6	.9	.3	7	.0	2.2
6	.0	.0	.3	1.6	.9	9	.3	2.5
5	.0	.0	.6	.6	.0	4	.0	1.3
4	.0	.0	2.2	1.3	.0	11	.0	3.5
3	.0	.3	2.8	1.3	.0	14	.9	3.5
2	.0	1.3	6.6	1.6	.0	30	.6	8.8
1	.6	5.0	6.0	1.3	.0	41	.9	12.0
0	.3	11.0	9.8	.3	.0	68	.6	20.8
-1	.6	12.3	4.1	.0	.0	54	.6	16.4
-2	.0	8.8	2.5	.0	.0	36	.3	11.0
-3	.3	4.1	1.3	.0	.0	18	.3	5.4
-4	.0	2.5	.3	.0	.0	9	.0	2.8
-5	.6	.9	.6	.0	.0	7	.0	2.2
-6	1.3	.6	.0	.0	.0	6	.0	1.9
-7/-8	.3	.0	.0	.0	.0	1	.0	.3
-9/-10	.3	.0	.0	.0	.0	1	.0	.3
TOTAL	14	150	120	28	5	317	15	302
PCT	4.4	47.3	37.9	8.8	1.6	100.0	4.7	95.3

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	4.5	.0	.0	.0	.0	4.5
3-4	.0	2.6	3.5	.0	.0	.0	6.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	8.3	3.5	.0	.0	.0	11.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.4	.0	.0	.0	.0	5.4
1-2	.0	6.4	.0	.0	.0	.0	6.4
3-4	.0	1.3	1.3	.0	.0	.0	2.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	13.1	1.3	.0	.0	.0	14.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.2	.0	.0	.0	.0	2.2
1-2	.0	10.3	4.5	.0	.0	.0	14.7
3-4	.0	5.1	10.6	.0	.0	.0	15.7
5-6	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	1.3	.0	.0	1.3
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	17.6	16.0	1.3	.0	.0	34.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	1.3	.0	.0	.0	1.3
1-2	.0	9.0	.6	.0	.0	.0	9.6
3-4	.0	.0	7.4	.0	.0	.0	7.4
5-6	.0	.0	2.9	1.3	.0	.0	4.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.3	.0	.0	1.3
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
TOT PCT	.0	9.0	12.2	2.6	.0	.0	23.7

PERIOD: (OVER-ALL) 1963-1969

DECEMBER

TABLE 18 (CONT)

AREA 0003 CUMBERLAND ISLANDS
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	.0	.0	.0	.0	1.0	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.0	.0	.0	.0	.0	.0	.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
TOT PCT	.0	1.0	.0	.0	.0	.0	1.0	.0	.3	.0	.0	.0	.0	.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	3.2	2.6	.0	.0	.0	5.8	
3-4	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	1.6	.0	.0	.0	1.6	
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	
TOT PCT	.0	2.6	.0	.0	.0	.0	2.6	.0	3.2	4.2	.0	.0	.0	7.4	96.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.8	10.3	1.3	.0	.0	.0	15.4	
1-2	.0	34.6	7.7	.0	.0	.0	42.3	
3-4	.0	10.3	24.4	.0	.0	.0	34.6	
5-6	.0	.0	3.8	1.3	.0	.0	5.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	1.3	.0	.0	1.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.3	.0	.0	1.3	
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	
								78
TOT PCT	3.8	55.1	37.2	3.8	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1969

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	11.8	32.7	24.5	4.5	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	2
6-7	.0	.9	6.4	.0	1.8	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	4
8-9	.0	.0	1.8	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
10-11	.0	1.8	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
12-13	.0	.0	.0	.0	.0	.0	.0	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	12
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	3.6	.0	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	1
TOTAL	17	39	37	6	7	1	1	1	1	0	0	0	0	0	0	0	0	0	0	110	3
PCT	15.5	35.5	33.6	5.5	6.4	.9	.9	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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PERIOD: (PRIMARY) 1889-1971
(OVER-ALL) 1863-1971

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.9	2.6	.3	.0	.0	.0	.0	3.8	.1	2.4	1.9	.0	2.2	.0	89.9
NE	2.9	4.1	.2	.0	.0	.0	.0	7.2	1.0	1.3	.9	.0	1.1	.0	88.8
E	2.1	2.8	1.0	.0	.0	.0	.0	5.9	1.2	1.0	1.8	.0	1.6	.0	88.7
SE	3.4	4.9	1.3	.0	.0	.0	.0	9.6	1.5	.6	1.4	.0	1.3	.0	86.0
S	2.0	6.2	1.3	.0	.0	.0	.0	9.5	.3	.5	3.3	.1	2.3	.0	84.0
SW	.6	5.7	.0	.0	.0	.0	.0	6.3	.0	.0	5.8	.0	7.0	.0	80.8
W	2.2	1.5	.0	.0	.0	.0	.0	3.7	.0	.0	1.3	.0	1.1	.0	94.0
NW	.7	2.2	.4	.0	.0	.0	.0	3.3	.2	1.0	1.0	.0	1.8	.0	92.8
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	2.1	.9	.7	.0	1.6	.0	94.7
TOT PCT	2.4	3.6	.9	.0	.0	.0	.0	6.9	1.1	1.0	1.5	*	1.7	.0	88.0
TOT OBS:	5261														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.1	3.0	.9	.0	.0	.0	.0	6.0	1.3	.2	1.4	.0	2.1	.0	89.2
06&09	2.2	2.9	.8	.0	.0	.0	.0	5.8	.8	.6	1.5	.1	1.9	.0	89.5
12&15	2.9	5.2	.4	.0	.0	.0	.0	8.5	.7	2.4	1.9	.0	1.0	.0	85.7
18&21	2.7	4.1	1.4	.0	.0	.0	.0	8.2	1.5	.9	1.7	.0	1.5	.0	86.4
TOT PCT	2.5	3.7	.9	.0	.0	.0	.0	7.1	1.1	1.0	1.6	*	1.7	.0	87.8
TOT OBS:	5493														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.5	5.4	1.1	*	*	.0		8.1	6.2	6.0	8.0	8.8	9.6	7.5	8.7	8.2	5.7
NE	2.3	7.5	1.0	.1	*	.0		10.9	6.5	8.0	9.4	11.5	16.4	11.5	13.5	7.7	6.5
E	2.4	13.5	7.3	.7	*	.0		24.0	9.4	19.3	20.0	25.5	27.0	32.8	27.6	22.8	20.9
SE	2.3	14.6	16.0	2.2	.1	.0		35.2	11.7	41.2	36.9	37.9	33.2	35.4	30.1	33.5	36.0
S	1.2	4.5	3.1	.3	*	.0		9.2	9.8	13.9	11.5	6.3	5.1	6.2	6.4	10.3	14.0
SW	.7	1.5	.7	*	.0	.0		2.9	7.1	2.4	3.7	2.1	1.4	2.0	2.1	3.4	4.6
W	.5	.9	.1	*	.0	.0		1.6	5.7	1.9	2.3	.8	.8	.4	1.2	1.9	2.4
NW	1.4	3.5	.9	*	.0	.0		5.8	6.4	5.5	6.3	4.9	5.1	2.5	7.5	6.2	6.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0	1.8	1.9	2.2	1.4	1.8	2.8	3.9	2.0
TOT OBS							7685		9.3	485	1162	1249	1000	418	948	1311	1112
TOT PCT	14.5	51.6	30.3	3.4	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.6	3.3	.2	*	*		8.1	6.2	7.4	9.2	8.4	7.5
NE	6.5	4.1	.2	*	.0		10.9	6.5	9.1	13.7	13.0	8.3
E	7.7	13.5	2.6	.1	.0		24.0	9.4	19.7	26.1	29.2	21.9
SE	7.4	19.7	7.7	.5	*		35.2	11.7	38.1	35.9	31.7	34.6
S	3.2	4.8	1.1	.1	*		9.2	9.8	12.2	5.7	6.4	12.1
SW	1.4	1.3	.1	*	.0		2.9	7.1	3.3	1.8	2.1	4.0
W	1.0	.5	*	.0	.0		1.6	5.7	2.2	.8	1.0	2.1
NW	3.5	2.1	.2	.0	.0		5.8	6.4	6.2	5.0	5.8	6.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.3						2.3	.0	1.9	1.8	2.5	3.0
TOT OBS						7685		9.3	1647	2249	1366	2423
TOT PCT	37.7	49.3	12.2	.8	*		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.9	15.0	49.2	30.4	3.2	.3	.0	9.2	100.0	1647
06&09	1.8	12.3	51.4	30.6	3.7	.1	.0	9.5	100.0	2249
12&15	2.5	8.6	52.3	32.6	3.8	.2	.0	9.8	100.0	1366
18&21	3.0	12.2	52.9	28.6	3.1	.1	.0	8.9	100.0	2423
TOT								9.3		7685
PCT	2.3	12.2	51.6	30.3	3.4	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.9	1.6	1.6	.4		2.2
NE	4.7	2.0	2.3	.9		3.1
E	11.2	5.6	5.5	2.0		3.3
SE	14.1	9.8	10.9	4.3		3.7
S	4.5	1.8	1.6	1.3		3.4
SW	1.6	.2	.4	.2		2.3
W	.6	.3	.2	.1		1.7
NW	2.6	.6	.5	.4		2.3
VAR	.0	.0	.0	.0		.0
CALM	1.9	.7	.4	.0		1.7
TOT OBS					1624	3.3
TOT PCT	45.1	22.5	23.2	9.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.3	.5	.3	.1	.0	*	.0	6.3	
NE	.0	.0	.0	.4	.6	.3	.1	.0	*	.1	8.1	
E	.0	.0	.1	.9	1.7	.8	.5	.1	.0	.2	19.8	
SE	.1	.1	.5	2.2	3.5	1.7	.5	.3	.0	.1	30.1	
S	.1	.0	.2	.3	.7	.4	.1	*	.0	.1	7.4	
SW	.0	.0	*	.1	.1	.1	.1	.1	.0	.0	1.9	
W	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	1.1	
NW	.0	.0	.1	.2	.1	.1	.0	.0	.0	.1	3.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	2.7	
TOT OBS												1624
TOT PCT	.2	.1	.9	4.5	7.1	3.8	1.3	.6	.1	.5	81.1	100.0

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 >50YD	= OR >0
= OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
= OR >5000	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1
= OR >3500	2.2	2.3	2.5	2.5	2.5	2.5	2.5	2.5
= OR >2000	5.6	6.0	6.2	6.2	6.2	6.2	6.2	6.2
= OR >1000	11.5	12.7	13.3	13.3	13.3	13.3	13.3	13.3
= OR >600	14.5	16.8	17.8	17.8	17.8	17.8	17.8	17.8
= OR >300	14.9	17.4	18.6	18.6	18.6	18.6	18.6	18.6
= OR >150	14.9	17.4	18.6	18.6	18.6	18.7	18.7	18.7
= OR > 0	15.0	17.5	18.8	18.8	18.8	18.8	18.8	18.8

TOTAL NUMBER OF OBS: 1643 PCT FREQ NH <5/8: 81.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
16.8	23.0	18.5	14.0	8.1	5.7	3.7	4.2	6.1	.0	1773

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	*	.0	.0	*	.0	.0	*	
	TOT %	.0	.0	.0	*	*	.0	.0	*	.0	.0	*	
1/2<1	PCP	.0	.1	*	.1	*	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.2	.2	.3	.1	.1	.0	*	.0	*	1.1	
	TOT %	.1	.2	.2	.3	.1	.1	.0	*	.0	*	1.2	
1<2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	*	.2	.3	.1	.1	*	*	.0	*	.8	
	TOT %	.1	*	.2	.4	.1	.1	*	*	.0	*	.9	
2<5	PCP	*	*	.1	.1	.1	.0	.0	*	.0	.0	.3	
	NO PCP	.0	.1	.2	.3	.1	.0	.0	.0	.0	.0	.6	
	TOT %	*	.1	.3	.4	.2	.0	.0	*	.0	.0	1.0	
5<10	PCP	.2	.6	1.1	2.5	.4	.1	.1	.1	.0	.0	5.1	
	NO PCP	3.5	4.8	10.2	14.0	4.2	1.3	.8	3.3	.0	.7	42.9	
	TOT %	3.7	5.4	11.3	16.5	4.6	1.5	.9	3.5	.0	.7	48.0	
10+	PCP	.1	.1	.2	.6	.2	.0	.0	.1	.0	.0	1.3	
	NO PCP	3.9	5.3	11.7	16.9	4.1	1.4	.7	2.4	.0	1.2	47.6	
	TOT %	4.0	5.4	12.0	17.6	4.2	1.4	.7	2.4	.0	1.2	48.9	
	TOT OBS												5298
	TOT PCT	8.0	11.1	23.9	35.1	9.3	3.0	1.6	6.0	.0	2.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	.0	.0	.0	.0	.0	*	.0		*	
	11-21	.0	.0	*	*	*	.0	.0	.0	.0		*	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	TOT %	.0	.0	*	*	*	.0	.0	*	.0	.0	.1	
1/2<1	0-3	.0	*	*	*	*	*	.0	*	.0	*	.1	
	4-10	.1	.1	.2	.2	.1	*	.0	*	.0		.6	
	11-21	.0	.1	*	.1	*	*	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.2	.2	.3	.1	.1	.0	*	.0	*	1.0	
1<2	0-3	*	*	.0	.0	.0	*	*	*	.0	*	.1	
	4-10	.1	*	.1	.1	*	*	.0	*	.0		.4	
	11-21	*	.0	.1	.2	*	*	*	*	.0		.4	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.1	.1	.2	.4	.1	.1	*	*	.0	*	1.0	
2<5	0-3	.0	*	*	*	*	.0	.0	.0	.0	*	.1	
	4-10	*	.1	.2	.1	.1	.0	.0	*	.0		.5	
	11-21	*	*	.1	.2	*	.0	.0	*	.0		.5	
	22+	.0	.0	*	.1	*	.0	.0	.0	.0		.1	
	TOT %	*	.1	.3	.5	.1	.0	.0	.1	.0	*	1.3	
5<10	0-3	.7	1.1	1.1	1.3	.7	.3	.2	.8	.0	.7	7.0	
	4-10	2.0	3.0	5.5	6.1	2.1	.7	.4	1.7	.0		21.5	
	11-21	.5	.6	3.0	6.2	1.5	.4	.1	.5	.0		12.6	
	22+	.1	.1	.3	1.0	.1	.0	*	*	.0		1.7	
	TOT %	3.2	4.7	9.9	14.7	4.4	1.3	.8	3.0	.0	.7	42.8	
10+	0-3	.8	1.0	1.1	.9	.5	.4	.2	.6	.0	1.5	7.1	
	4-10	3.0	4.3	7.7	7.6	2.2	.7	.5	1.8	.0		27.8	
	11-21	.5	.4	4.4	9.9	1.5	.3	*	.4	.0		17.4	
	22+	.0	*	.2	1.0	.3	*	*	.0	.0		1.5	
	TOT %	4.4	5.7	13.4	19.4	4.5	1.4	.8	2.8	.0	1.5	53.8	
	TOT OBS												6406
	TOT PCT	7.9	10.8	24.1	35.3	9.3	2.9	1.6	6.0	.0	2.2	100.0	

PERIOD: (PRIMARY) 1889-1971
(OVER-ALL) 1863-1971

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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
00&03	.5	.0	1.0	3.6	8.6	3.9	1.6	.6	.2	.2	20.2	79.8	485
06&09	.0	.0	1.4	3.1	5.3	3.1	.8	.5	.0	.2	14.4	85.6	450
12&15	.0	.2	.5	4.5	6.3	3.7	1.5	.3	.0	.2	17.1	82.9	405
18&21	.0	.0	.3	6.0	6.7	3.4	1.2	.6	.0	1.6	19.8	80.2	393
TOT													1733
PCT	.2	.1	.8	4.2	6.7	3.6	1.2	.5	*	.5	17.8	82.2	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
00&03	.0	1.1	1.1	1.0	33.4	63.4	1408
06&09	*	1.2	.9	1.9	47.6	48.2	1927
12&15	.3	.7	1.2	1.3	41.9	54.6	1202
18&21	*	1.2	.9	.8	48.4	48.6	2105
TOT							6642
PCT	.1	1.1	1.0	1.2	43.8	52.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.5	1.6	5.8	15.2	78.9	465
06&09	.0	1.4	5.8	9.8	84.4	423
12&15	.0	.8	6.2	11.7	82.1	388
18&21	.0	.3	6.7	14.5	78.8	367
TOT						1643
PCT	.2	1.1	6.2	12.7	81.1	100.0

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
90/94	.0	.0	.0	.2	.3	.1	*	.0		.5
85/89	.0	*	.1	.3	1.0	1.3	.8	.5		4.0
80/84	.0	.0	.1	.6	4.9	9.1	8.7	2.9		26.3
75/79	.0	*	.2	1.0	4.1	12.3	9.0	5.3		32.0
70/74	.0	*	.4	.9	3.8	6.7	7.5	4.1		23.5
65/69	.0	.0	.5	1.1	1.8	2.6	3.5	2.1		11.6
60/64	.0	.0	.1	.3	.4	.3	.4	.4		1.8
55/59	.0	.0	.0	*	.1	*	.1	.0		.2
TOTAL									3710	100.0
PCT	.0	.1	1.4	4.4	16.3	32.5	30.0	15.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.1	.1	.1	*	*	*	.1	.0	.0
.6	.4	.8	1.1	.3	.2	.1	.4	.0	.1
3.4	3.7	6.8	7.4	1.1	.3	.5	2.5	.0	.5
2.7	4.1	8.7	11.1	1.8	.5	.3	1.9	.0	.9
1.4	1.9	5.3	9.8	2.3	.7	.4	1.1	.0	.6
.2	.4	1.1	5.2	3.1	.8	.2	.3	.0	.3
*	.0	.1	.5	.7	.3	.1	*	.0	*
.0	.0	*	*	.1	.1	*	.0	.0	.0
8.4	10.5	22.9	35.3	9.4	2.9	1.7	6.2	.0	2.5

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	92	87	83	77	72	69	55	76.8	1628
06&09	92	85	82	77	72	70	58	76.4	2274
12&15	88	80	79	75	71	69	59	74.7	1393
18&21	94	82	79	75	70	67	56	74.1	2469
TOT	94	85	81	76	71	69	55	75.4	7764

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	7.9	20.7	33.0	26.0	12.4	76	847
06&09	.0	8.3	21.1	34.3	23.4	12.9	75	1128
12&15	.0	5.1	11.2	33.3	34.0	16.4	79	707
18&21	.0	3.4	11.7	29.0	36.4	19.5	80	1162
TOT	0	259	629	1214	1142	600	77	3844

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PERIOD: (PRIMARY) 1889-1971
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	*	*	*	*	*	7	.0	.2
9/10	.0	.0	.0	.0	*	*	.1	.1	.1	.0	11	.0	.3
7/8	.0	.0	.0	*	*	.4	.3	.2	.2	.0	45	.0	1.2
6	.0	.0	.0	.0	.1	.2	.2	.2	.2	.0	36	.1	.9
5	.0	.0	*	*	.4	.6	.5	.3	.0	.0	74	.0	1.8
4	.0	.0	.0	.1	.9	.7	1.2	.6	.1	.0	142	*	3.6
3	.0	.0	.1	.4	1.2	1.1	1.3	.7	.0	.0	199	.1	4.8
2	.0	.0	.1	1.5	1.7	2.5	2.3	.4	.0	.0	351	.3	8.3
1	.0	.0	.4	2.1	3.0	3.6	3.9	.3	.0	.0	533	.4	12.9
0	.0	.1	.5	3.6	3.7	5.9	4.5	.2	.0	.0	744	.5	18.0
-1	.0	*	1.0	3.0	4.3	5.5	2.3	*	.0	.0	650	.1	15.9
-2	.0	.1	1.8	2.7	2.8	4.1	1.5	*	.0	.0	531	.3	12.7
-3	.0	.1	1.0	1.6	1.5	2.3	.5	.1	.0	.0	291	.1	7.0
-4	.0	.2	.9	1.1	1.0	1.5	.3	.0	.0	.0	204	.1	4.8
-5	.0	.3	.7	.7	.5	.5	.1	.0	.0	.0	128	.0	2.9
-6	.0	.1	.7	.2	.3	.3	.0	.0	.0	.0	68	*	1.6
-7/-8	*	.3	.3	.1	.1	.2	*	.0	.0	.0	44	.0	1.0
-9/-10	*	.1	*	.1	.1	*	.0	.0	.0	.0	18	.0	.4
-11/-13	*	*	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.1
TOTAL											4080		
PCT	.1	1.3	7.7	17.2	21.5	29.4	18.9	3.3	.5	*	100.0	2.0	98.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.0	.1	.0	.0	.0	1.8
1-2	.4	3.0	.3	.0	.0	.0	3.7
3-4	.0	.4	.8	.0	.0	.0	1.2
5-6	.0	.1	.2	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.1	4.5	1.4	.0	.0	.0	6.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.9	.0	.0	.0	.0	2.2
1-2	.4	5.7	.2	.0	.0	.0	6.2
3-4	.1	.8	.5	.0	.0	.0	1.3
5-6	.0	*	*	.0	.0	.0	*
7	.0	.0	*	.0	*	.0	*
8-9	.0	.1	.0	.0	*	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.7	8.5	.7	.0	.1	.0	9.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.3	.1	.0	.0	.0	2.1
1-2	.2	7.9	2.4	.0	.0	.0	10.5
3-4	.1	3.1	5.5	.0	.0	.0	8.8
5-6	.0	.5	2.5	.1	.0	.0	3.0
7	.0	.2	.9	.0	.1	.0	1.2
8-9	.0	.0	.0	.1	.1	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.2	.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
TOT PCT	1.1	13.0	11.6	.2	.2	.0	26.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.3	.3	.0	.0	.0	2.0
1-2	.1	7.6	3.5	.0	.0	.0	11.2
3-4	.0	3.5	10.7	.7	.0	.0	14.9
5-6	.0	.2	5.8	.9	.0	.0	6.9
7	.0	*	1.6	.8	.1	.0	2.5
8-9	.0	.0	.6	.2	.0	.0	.8
10-11	.0	.0	.4	.3	.0	.0	.6
12	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.0	.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
TOT PCT	.6	12.6	22.9	3.2	.1	.0	39.4

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.0	.0	.0	.0	1.0	.2	.2	.0	.0	.0	.0	.4
1-2	.3	1.5	.5	.0	.0	.0	2.3	*	.6	.2	.0	.0	.0	.8
3-4	.0	.7	2.2	.3	.0	.0	3.2	.0	.1	.3	.0	.0	.0	.4
5-6	.0	.0	.8	.3	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.4	.1	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.5	3.1	3.8	.7	.0	.0	8.1	.2	.9	.5	.0	.0	.0	1.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.1	.6	.0	.0	.0	.0	.7	
1-2	.1	.4	.1	.0	.0	.0	.5	.3	1.6	.3	.0	.0	.0	2.2	
3-4	.0	.1	.0	.2	.0	.0	.3	.0	.4	.6	.0	.0	.0	1.0	
5-6	.0	.0	.1	.0	.0	.0	.1	.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	
TOT PCT	.1	.8	.1	.2	.0	.0	1.2	.5	2.6	1.0	.0	.0	.0	4.1	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.7	7.4	.4	.0	.0	.0	13.6	
1-2	2.2	28.0	7.3	.0	.0	.0	37.4	
3-4	.3	9.0	20.5	1.1	.0	.0	30.9	
5-6	.0	.8	9.4	1.3	.0	.0	11.5	
7	.0	.2	3.0	.9	.2	.0	4.3	
8-9	.0	.1	.6	.3	.1	.0	1.1	
10-11	.0	.0	.4	.2	.0	.0	.6	
12	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.0	.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	
TOT PCT	8.2	45.6	41.7	4.2	.3	.0	100.0	1062

PERIOD: (OVER-ALL) 1949-1969

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
<6	8.7	29.0	23.2	5.5	1.9	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	988	3
6-7	.1	1.1	5.5	5.0	3.8	.8	.3	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	257	5
8-9	.0	.2	.4	1.1	1.5	.5	.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	7
10-11	.0	.3	.3	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	5
12-13	.0	.0	.1	.1	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	8
>13	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
INDET	5.2	1.3	.9	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	1
TOTAL																				1451	3
PCT	14.0	31.9	30.3	12.3	7.6	1.7	1.2	.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1889-1971
(OVER-ALL) 1863-1971

AREA 0003 CUMBERLAND ISLANDS
19.7S 148.2E

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	1.0	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	12	.2
85/86	4.4	4.4	2.0	.2	.0	.0	.0	.0	.0	.0	.0	2.9	67	1.0
83/84	20.9	19.8	7.7	2.4	.3	.0	.0	.1	.0	1.2	2.7	9.6	315	4.9
81/82	43.8	47.9	38.3	15.0	.7	.0	.2	.3	.0	1.6	13.8	38.8	984	15.0
79/80	22.2	16.5	36.8	27.9	5.2	.8	.0	.4	1.1	10.7	28.5	31.5	891	13.8
77/78	7.2	7.4	12.7	31.8	18.7	1.5	.3	6.8	4.1	25.4	32.0	14.4	834	13.0
75/76	.2	3.0	.9	12.5	34.4	7.7	1.7	5.0	15.5	32.2	17.0	1.9	704	10.9
73/74	.3	.2	.9	7.5	27.1	30.0	5.5	15.2	30.5	20.3	4.9	.2	803	12.5
71/72	.0	.2	.2	1.8	9.8	35.8	29.4	23.3	31.4	7.8	1.0	.2	834	12.9
69/70	.0	.0	.2	.6	2.9	18.3	36.3	29.0	12.9	1.0	.0	.0	637	9.9
67/68	.0	.0	.0	.0	.7	4.2	18.8	15.3	4.1	.0	.0	.0	279	4.3
65/66	.0	.0	.0	.4	.2	1.1	6.4	2.9	.4	.0	.0	.0	74	1.1
63/64	.0	.0	.0	.0	.0	.7	1.4	1.5	.0	.0	.0	.0	24	.4
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
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	579	405	457	506	582	614	637	717	485	516	487	479	6438	100.0
MEAN	81.4	81.5	80.3	78.0	74.9	71.9	69.7	71.0	72.5	75.8	78.1	80.5	76.2	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1008	1008	1006	1006	1009	1008	1007	1007	1007	373
FEB	1009	1008	1008	1007	1009	1009	1007	1008	1008	314
MAR	1012	1012	1010	1012	1012	1011	1011	1011	1011	307
APR	1015	1013	1012	1013	1015	1013	1012	1013	1013	362
MAY	1017	1016	1015	1016	1017	1016	1015	1016	1016	358
JUN	1019	1018	1016	1016	1017	1016	1017	1018	1017	486
JUL	1019	1018	1016	1017	1018	1017	1017	1018	1017	481
AUG	1019	1018	1016	1016	1017	1017	1017	1017	1017	427
SEP	1018	1016	1016	1015	1017	1017	1016	1017	1016	332
OCT	1017	1015	1013	1013	1016	1014	1014	1014	1014	350
NOV	1014	1013	1011	1013	1013	1014	1012	1013	1013	349
DEC	1011	1011	1009	1009	1011	1009	1009	1010	1010	291
ANN	1015	1014	1012	1013	1014	1013	1013	1014	1014	4430
OBS	457	525	742	526	396	458	771	555		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	993	995	1000	1005	1008	1010	1013	1014	1015
FEB	997	998	1001	1006	1008	1011	1013	1015	1019
MAR	1000	1002	1005	1010	1012	1013	1015	1016	1017
APR	1006	1007	1009	1011	1013	1015	1017	1019	1020
MAY	1007	1010	1012	1014	1016	1018	1020	1021	1022
JUN	1008	1009	1011	1015	1017	1019	1022	1024	1025
JUL	1008	1010	1012	1016	1017	1019	1022	1023	1027
AUG	1007	1007	1011	1015	1017	1019	1022	1024	1028
SEP	1006	1008	1011	1014	1016	1018	1021	1023	1026
OCT	1003	1004	1008	1012	1015	1017	1019	1021	1023
NOV	1003	1004	1007	1010	1013	1015	1018	1020	1022
DEC	1002	1003	1005	1008	1010	1012	1015	1016	1018

JANUARY

PERIOD: (PRIMARY) 1916-1971
(OVER-ALL) 1883-1971

AREA 0004 ROCKHAMPTON
23.2S 152.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.2	5.5	.0	.0	.0	.0	.0	7.7	2.2	2.2	.0	.0	4.4	.0	83.5
NE	4.3	8.0	1.2	.0	.0	.0	.0	13.6	2.8	3.1	.0	.0	.0	.0	81.1
E	3.5	6.6	.0	.0	.0	.0	.0	10.1	1.1	3.2	.0	.0	.7	.0	85.3
SE	3.3	5.9	.5	.0	.0	.0	.0	9.8	3.3	2.1	.0	.0	1.1	.0	83.8
S	7.0	5.2	.0	.0	.0	.0	.0	12.2	.0	.0	.0	.0	3.5	.0	84.3
SW	33.3	22.2	.0	.0	.0	.0	.0	55.6	.0	.0	.0	.0	.0	.0	44.4
W	6.7	8.9	.0	.0	.0	.0	.0	15.6	.0	.0	.0	.0	.0	.0	84.4
NW	3.7	.0	3.7	.0	.0	.0	.0	7.4	.0	.0	.0	.0	3.7	.0	88.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	14.3	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	14.3	.0	71.4
TOT PCT	3.9	6.4	.6	.0	.0	.0	.0	10.8	2.1	2.2	.0	.0	1.5	.0	83.6
TOT OBS:	535														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.1	7.0	.0	.0	.0	.0	.0	10.2	.8	.0	.0	.0	1.6	.0	87.5
06&09	2.4	5.5	.0	.0	.0	.0	.0	7.9	1.8	1.8	.0	.0	.6	.0	88.4
12&15	3.6	7.1	.9	.0	.0	.0	.0	11.6	4.5	6.3	.0	.0	1.8	.0	75.9
18&21	6.6	5.9	1.5	.0	.0	.0	.0	14.0	1.5	2.2	.0	.0	2.2	.0	80.1
TOT PCT	3.9	6.3	.6	.0	.0	.0	.0	10.7	2.0	2.4	.0	.0	1.5	.0	83.5
TOT OBS:	540														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	6.1	2.7	.3	.0	.0		10.1	9.0	8.9	9.9	9.4	12.4	6.7	18.1	8.8	7.1
NE	1.3	10.7	3.6	.6	.0	.0		16.2	8.6	7.1	13.5	14.7	23.6	16.5	23.5	13.9	19.2
E	2.0	14.6	9.3	1.6	.1	.0		27.4	10.6	31.3	24.0	28.4	20.8	32.4	21.7	34.0	30.1
SE	.8	10.8	15.8	5.2	.3	.0		33.0	14.3	39.0	31.8	38.2	32.6	41.5	28.3	30.7	24.4
S	.4	2.4	2.0	.3	.0	.0		5.2	10.9	6.3	10.4	6.1	1.1	.0	2.4	4.0	9.6
SW	.3	.3	.0	.2	.0	.0		.8	8.6	1.5	1.6	.9	.0	.0	.0	.6	1.3
W	.3	.7	.2	.3	.1	.0		1.6	12.0	5.1	2.1	.6	.0	2.8	.0	1.1	2.6
NW	.6	2.6	1.4	.0	.0	.0		4.6	8.5	4.5	5.7	4.0	8.4	.0	6.0	3.8	4.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0	2.4	1.0	.6	1.1	.0	.0	3.1	1.3
TOT OBS	65	385	281	67	4	0	800		11.1	84	96	168	89	71	83	131	78
TOT PCT	7.9	48.1	35.1	8.4	.5	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.8	5.4	.7	.0	.0		10.1	9.0	9.4	10.4	12.8	8.1
NE	7.6	7.3	1.0	.3	.0		16.2	8.6	10.6	17.8	20.3	15.9
E	7.9	14.3	5.0	.3	.0		27.4	10.6	27.4	23.8	26.6	32.5
SE	4.0	16.3	11.4	1.3	.0		33.0	14.3	32.4	36.3	34.4	28.3
S	1.4	3.0	.7	.0	.0		5.2	10.9	8.5	4.4	1.3	6.1
SW	.6	.0	.0	.2	.0		.8	8.6	1.5	.6	.0	.8
W	.8	.5	.1	.3	.0		1.6	12.0	3.5	.4	1.3	1.7
NW	1.8	2.6	.3	.0	.0		4.6	8.5	5.1	5.5	3.2	4.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	1.7	.8	.0	2.6
TOT OBS	233	395	153	19	0	800		11.1	180	257	154	209
TOT PCT	29.1	49.4	19.1	2.4	.0		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1916-1971
(OVER-ALL) 1883-1971

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	1.7	5.6	47.2	36.7	8.9	.0	.0	11.3	100.0	180
06&09	.8	8.2	47.5	34.2	9.3	.0	.0	10.8	100.0	257
12&15	.0	2.6	51.3	39.6	5.2	1.3	.0	11.6	100.0	154
18&21	2.4	8.6	47.4	31.6	9.1	1.0	.0	11.0	100.0	209
TOT	10	53	385	281	67	4	0	11.1		800
PCT	1.3	6.6	48.1	35.1	8.4	.5	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.5	2.0	2.4	.4		3.7
NE	4.6	2.1	2.4	2.0		3.8
E	12.2	8.1	8.4	1.3		3.5
SE	12.5	9.5	12.6	5.6		4.1
S	.9	.9	.8	.9		4.4
SW	.1	.5	.5	.0		4.5
W	.8	.0	1.8	.3		5.3
NW	.8	.3	.7	.5		4.3
VAR	.0	.0	.0	.0		.0
CALM	1.5	.0	.4	.0		1.6
TOT OBS	95	62	79	29	265	3.8
TOT PCT	35.8	23.4	29.8	10.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	1.0	.4	.0	.0	.0	.0	5.8	
NE	.0	.0	.0	.8	1.1	.8	.4	.0	.0	.0	7.9	
E	.0	.0	.0	.6	2.2	1.2	.7	.4	.0	.0	25.0	
SE	.4	.0	1.6	3.7	4.2	1.3	.5	.0	.0	.0	28.[illegible]	
S	.0	.0	.3	.3	.8	.0	.0	.0	.0	.0	2.3	
SW	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.6	
W	.0	.0	.0	.0	.3	.7	.8	.0	.0	.0	1.1	
NW	.0	.0	.0	.0	.1	.5	.0	.0	.0	.0	1.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	1.5	
TOT OBS	1	0	5	14	27	14	6	1	0	0	197	265
TOT PCT	.4	.0	1.9	5.3	10.2	5.3	2.3	.4	.0	.0	74.3	100.0

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 >500YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.4	.4	.4	.4	.4	.4	.4	.4
* OR >3500	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
* OR >2000	7.5	7.8	7.8	7.8	7.8	7.8	7.8	7.8
* OR >1000	15.3	17.9	17.9	17.9	17.9	17.9	17.9	17.9
* OR >600	18.3	22.8	22.8	22.8	22.8	22.8	22.8	22.8
* OR >300	19.0	23.5	24.3	24.6	24.6	24.6	24.6	24.6
* OR >150	19.0	23.5	24.3	24.6	24.6	24.6	24.6	24.6
* OR > 0	19.4	23.9	24.6	25.0	25.0	25.0	25.0	25.0
TOTAL	52	64	66	67	67	67	67	67

TOTAL NUMBER OF OBS: 268 PCT FREQ NH <5/8: 75.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
8.1	20.5	19.9	14.7	9.8	5.9	7.5	5.5	8.1	.0	307

PERIOD: (PRIMARY) 1916-1971
(OVER-ALL) 1883-1971

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.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	
	NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	PCP	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.4	
	NO PCP	.4	.0	.0	.4	.2	.0	.0	.2	.0	.2	1.3	
	TOT %	.4	.0	.1	.5	.3	.0	.0	.2	.0	.2	1.7	
2<5	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
5<10	PCP	.7	2.1	1.7	2.1	.2	.2	.3	.4	.0	.2	7.9	
	NO PCP	3.5	7.3	7.6	11.8	3.1	.1	.4	2.7	.0	.0	36.4	
	TOT %	4.2	9.3	9.3	13.9	3.3	.3	.7	3.0	.0	.2	44.3	
10+	PCP	.0	.0	.8	1.0	.3	.2	.0	.0	.0	.0	2.4	
	NO PCP	4.0	5.6	16.1	19.5	1.4	.3	1.4	1.8	.0	.9	51.0	
	TOT %	4.0	5.6	16.9	20.6	1.8	.5	1.4	1.8	.0	.9	53.5	
	TOT OBS												535
	TOT PCT	8.5	15.1	26.4	35.4	5.4	.8	2.1	5.0	.0	1.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.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	
	4-10	.0	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.2	.0	.2	.1	.2	.0	.0	.0	.0		.7	
	11-21	.2	.0	.0	.4	.2	.0	.0	.2	.0		1.0	
	22+	.2	.2	.0	.0	.0	.0	.0	.0	.0		.3	
	TOT %	.5	.2	.2	.5	.4	.0	.0	.2	.0	.2	2.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.2	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.7	
5<10	0-3	.1	.7	1.1	.9	.0	.0	.3	.4	.0	.2	3.8	
	4-10	1.9	6.6	4.9	4.6	1.8	.3	.3	1.5	.0		21.9	
	11-21	1.8	1.5	2.7	5.3	1.1	.0	.0	.8	.0		13.2	
	22+	.2	.4	.2	1.6	.0	.0	.0	.0	.0		2.4	
	TOT %	4.0	9.3	8.8	12.5	2.9	.3	.6	2.7	.0	.2	41.3	
10+	0-3	.1	.2	.8	*	.2	.4	.1	.1	.0	1.0	2.9	
	4-10	3.7	4.2	9.0	5.8	.5	.0	.5	.9	.0		24.5	
	11-21	1.5	2.0	6.7	11.0	.9	.0	.3	.7	.0		23.2	
	22+	.0	*	1.2	3.0	.2	.2	.5	.0	.0		5.2	
	TOT %	5.3	6.4	17.7	19.8	1.9	.6	1.4	1.8	.0	1.0	55.8	
	TOT OBS												613
	TOT PCT	9.8	16.0	27.1	33.2	5.1	.9	2.0	4.6	.0	1.3	100.0	

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PERIOD: (PRIMARY) 1916-1971
(OVER-ALL) 1883-1971

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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
00&03	.0	.0	1.2	3.5	11.8	5.9	.0	1.2	.0	.0	23.5	76.5	85
06&09	.0	.0	.0	6.2	6.2	6.2	2.5	.0	.0	.0	21.0	79.0	81
12&15	.0	.0	4.5	4.5	12.1	6.1	1.5	.0	.0	.0	28.8	71.2	66
18&21	1.7	.0	1.7	5.0	6.7	.0	5.0	.0	.0	.0	20.0	80.0	60
TOT	1	0	5	14	27	14	6	1	0	0	68	224	292
PCT	.3	.0	1.7	4.8	9.2	4.8	2.1	.3	.0	.0	23.3	76.7	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
00&03	.0	.0	1.4	.7	30.3	67.6	142
06&09	.0	.5	2.6	.5	43.1	53.3	195
12&15	.0	.0	1.6	.8	40.5	57.1	126
18&21	.0	.0	2.6	.6	49.0	47.7	155
TOT	0	1	13	4	254	346	618
PCT	.0	.2	2.1	.6	41.1	56.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.2	4.9	19.8	75.3	81
06&09	.0	.0	6.6	15.8	77.6	76
12&15	.0	5.1	8.5	22.0	69.5	59
18&21	1.9	3.8	9.6	13.5	76.9	52
TOT	1	6	19	48	201	268
PCT	.4	2.2	7.1	17.9	75.0	100.0

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
85/89	.0	.0	.0	1.2	1.0	.7	.5	.0	14	3.5
80/84	.0	.0	.0	2.0	7.9	14.3	11.4	4.2	161	39.8
75/79	.0	.0	.0	1.5	9.9	21.5	13.8	6.9	217	53.6
70/74	.0	.0	.0	.0	.2	.7	.0	1.7	11	2.7
65/69	.0	.0	.0	.0	.0	.0	.2	.2	2	.5
TOTAL	0	0	0	19	77	151	105	53	405	100.0
PCT	.0	.0	.0	4.7	19.0	37.3	25.9	13.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.8	.8	.9	.5	.0	.2	.1	.0	.0
5.6	6.7	9.0	11.5	1.3	.1	1.2	3.6	.0	.7
3.3	8.2	14.8	20.9	2.0	.7	1.3	1.4	.0	1.0
.4	.2	.9	.6	.6	.1	.0	.0	.0	.0
.0	.0	.0	.0	.2	.2	.0	.0	.0	.0
9.4	15.9	25.4	33.9	4.7	1.1	2.8	5.0	.0	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	86	85	84	80	76	69	69	79.9	177
06&09	88	87	85	79	76	72	70	79.7	253
12&15	85	83	82	78	74	73	72	78.1	154
18&21	84	82	81	78	74	72	71	77.8	207
TOT	88	86	84	79	75	72	69	79.0	791

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	10.0	27.0	37.0	17.0	9.0	74	100
06&09	.0	6.4	22.4	38.4	20.0	12.8	76	125
12&15	.0	.0	10.0	38.9	34.4	16.7	80	90
18&21	.0	1.1	14.9	34.0	36.2	13.8	79	94
TOT	0	19	78	152	107	53	77	409

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PERIOD: (PRIMARY) 1916-1971
(OVER-ALL) 1863-1971

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.2	.2	2	.0	.5
6	.0	.0	.2	.5	.2	4	.0	1.0
5	.0	.0	.0	1.4	1.0	10	.0	2.4
4	.0	.0	.0	1.7	1.0	11	.0	2.6
3	.0	.0	1.0	3.6	1.2	24	.0	5.7
2	.0	.0	3.8	5.0	.5	39	.0	9.3
1	.0	.2	10.5	3.8	.0	61	.0	14.6
0	.0	1.9	9.8	4.5	.0	68	.0	16.2
-1	.0	2.4	12.6	2.1	.0	72	.0	17.2
-2	.0	1.9	8.8	.2	.0	46	.0	11.0
-3	.0	2.4	5.3	.2	.0	33	.0	7.9
-4	.0	2.4	1.9	.2	.0	19	.0	4.5
-5	.0	1.2	2.4	.0	.0	15	.0	3.6
-6	.2	1.2	.7	.0	.0	9	.0	2.1
-7/-8	.2	.5	.0	.2	.0	4	.0	1.0
-9/-10	.2	.0	.0	.0	.0	1	.0	.2
-11/-13	.2	.0	.0	.0	.0	1	.0	.2
TOTAL	4	59	239	100	17	419	0	419
PCT	1.0	14.1	57.0	23.9	4.1	100.0		100.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.4	.0	.0	.0	.7
1-2	.3	2.7	.3	.0	.0	.0	3.3
3-4	.0	2.4	.4	.0	.0	.0	2.8
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.3	5.3	1.5	.0	.0	.0	7.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	3.0	.0	.0	.0	.0	3.0
3-4	.0	1.2	2.1	.1	.0	.0	3.4
5-6	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	5.2	3.7	.1	.0	.0	9.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.1	.0	.0	.0	.0	4.1
1-2	1.5	7.8	3.0	.0	.0	.0	12.3
3-4	.0	2.0	6.2	.7	.0	.0	8.8
5-6	.0	.4	2.3	.0	.0	.0	2.7
7	.0	.0	1.3	.7	.0	.0	2.1
8-9	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.3	.3	.0	.0	.6
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
TOT PCT	1.5	14.3	13.1	2.4	.0	.0	31.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.0	.0	.0	.0	.0	2.0
1-2	.1	6.9	2.0	.0	.0	.0	9.0
3-4	.0	1.7	8.2	.8	.0	.0	10.8
5-6	.0	.4	4.8	.0	.4	.0	5.7
7	.0	.0	4.0	3.0	.0	.0	7.0
8-9	.0	.0	.4	1.4	.0	.0	1.9
10-11	.0	.0	.9	.6	.0	.0	1.5
12	.0	.0	.0	.4	.4	.0	.8
13-16	.0	.0	.0	.4	.0	.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
TOT PCT	.1	11.0	20.4	6.7	.8	.0	39.0

PERIOD: (OVER-ALL) 1963-1971

JANUARY

TABLE 18 (CONT)

AREA 0004 ROCKHAMPTON
23.2S 152.3E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3	.5	.1	.0	.0	.0	.0	.6
1-2	.3	.4	.8	.0	.0	.0	1.5	.1	.0	.0	.0	.0	.0	.1
3-4	.0	.4	.4	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.3	.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
TOT PCT	.6	.8	2.0	.6	.0	.0	4.0	.6	.1	.0	.5	.0	.0	1.2

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	.4	.0	.0	.0	.0	.4	
1-2	.3	.4	.3	.0	.0	.0	1.0	.2	1.4	.2	.0	.0	.0	1.9	
3-4	.0	.0	.4	.0	.0	.0	.4	.0	.1	.4	.0	.0	.0	.5	
5-6	.0	.4	.0	.4	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.4	.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	
TOT PCT	.3	1.1	.7	.8	.4	.0	3.4	.2	2.0	.6	.0	.0	.0	2.8	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.2	8.1	.4	.0	.0	.0	11.7	
1-2	3.6	22.7	6.5	.0	.0	.0	32.8	
3-4	.0	7.7	17.8	1.6	.0	.0	27.1	
5-6	.0	1.2	9.3	.4	.4	.0	11.3	
7	.0	.0	5.7	4.5	.0	.0	10.1	
8-9	.0	.0	.4	2.4	.4	.0	3.2	
10-11	.0	.0	1.2	1.2	.0	.0	2.4	
12	.0	.0	.0	.4	.4	.0	.8	
13-16	.0	.0	.0	.4	.0	.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	
								247
TOT PCT	6.9	39.7	41.3	10.9	1.2	.0	100.0	

PERIOD: (OVER-ALL) 1949-1971

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	1.9	10.7	12.2	6.3	3.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	94	3
6-7	.0	.7	9.3	12.6	4.4	3.7	1.9	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	5
8-9	.0	.0	2.6	6.3	4.4	3.0	3.3	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	7
10-11	.0	.0	.4	.4	.4	.0	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
12-13	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	11
>13	.0	.0	.0	.0	.4	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	3	13
INDET	2.6	1.5	1.9	1.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	2
TOTAL	12	35	71	72	35	20	16	7	1	0	1	0	0	0	0	0	0	0	0	270	5
PCT	4.4	13.0	26.3	26.7	13.0	7.4	5.9	2.6	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1920-1972
(OVER-ALL) 1863-1972

AREA 0004 ROCKHAMPTON
23.25 152.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	6.4	.0	.0	.0	.0	.0	.0	6.4	.0	4.6	.0	.0	.0	.0	89.0
NE	8.8	11.0	.0	.0	.0	.0	.0	19.9	.0	3.9	.0	.0	.0	.0	78.5
E	3.3	10.4	.8	.0	.0	.0	.0	14.5	2.3	.8	1.5	.0	1.5	.8	78.6
SE	2.0	9.8	.4	.0	.0	.0	.0	12.1	4.0	.9	.0	.0	1.2	.0	81.8
S	9.4	9.9	2.0	.0	.0	.0	.0	21.3	1.5	1.5	2.0	.0	.0	.0	73.8
SW	40.0	12.0	.0	.0	.0	.0	.0	52.0	.0	.0	.0	.0	.0	.0	48.0
W	.0	29.6	.0	.0	.0	.0	.0	29.6	.0	.0	.0	.0	.0	.0	70.4
NW	1.7	6.8	.0	.0	.0	.0	.0	8.5	.0	.0	.0	.0	.0	.0	91.5
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	8.3	.0	91.7
TOT PCT	4.5	9.6	.5	.0	.0	.0	.0	14.6	2.5	1.3	.5	.0	1.1	.2	80.0
TOT OBS:	594														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.3	10.1	.8	.0	.0	.0	.0	13.2	1.6	.0	.0	.0	1.6	.8	82.9
06&09	3.2	9.6	.6	.0	.0	.0	.0	13.4	1.3	.6	1.9	.0	1.3	.0	81.5
12&15	3.3	8.9	.0	.0	.0	.0	.0	12.2	4.1	3.3	.0	.0	.8	.0	79.7
18&21	8.4	10.4	.6	.0	.0	.0	.0	19.5	3.2	1.3	.0	.0	.6	.0	76.0
TOT PCT	4.4	9.8	.5	.0	.0	.0	.0	14.7	2.5	1.2	.5	.0	1.1	.2	79.9
TOT OBS:	563														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	3.6	1.9	.1	.0	.0		6.2	9.2	2.1	5.1	6.2	10.4	4.0	6.5	7.9	6.5
NE	.7	7.1	1.4	.1	.0	.0		9.4	8.3	8.3	4.5	7.2	6.1	12.8	15.9	8.9	13.9
E	1.5	11.1	10.8	2.1	.1	.0		25.6	12.0	17.0	28.1	22.5	34.8	19.5	31.5	27.8	24.1
SE	.4	9.5	26.2	6.7	.2	.0		43.0	15.6	49.7	48.3	50.5	35.4	49.7	32.6	37.9	36.7
S	.0	2.3	3.9	1.3	.3	.3		8.0	16.7	10.1	4.5	7.2	7.9	9.5	7.4	9.1	8.9
SW	.1	.3	.6	.3	.1	.3		1.6	23.1	.6	2.8	2.0	.6	1.5	.3	1.0	3.8
W	.3	.2	.3	.0	.3	.0		1.0	16.3	.9	1.7	.7	.0	.0	1.2	1.4	1.9
NW	1.1	1.6	.4	.1	.0	.0		3.2	6.9	5.4	5.1	1.1	2.4	1.8	3.5	3.1	4.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0	6.0	.0	2.6	2.4	1.2	1.2	2.8	.0
TOT OBS	55	285	361	85	7	4	797		13.2	84	89	153	82	82	85	143	79
TOT PCT	6.9	35.8	45.3	10.7	.9	.5		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.8	3.8	.5	.1	.0		6.2	9.2	3.6	7.7	5.2	7.3
NE	3.8	5.0	.5	.1	.0		9.4	8.3	6.4	6.8	14.4	10.7
E	5.6	13.1	6.5	.3	.1		25.6	12.0	22.7	26.8	25.6	26.5
SE	3.2	19.6	18.5	1.6	.1		43.0	15.6	49.0	45.2	41.0	37.5
S	1.2	2.8	3.4	.3	.4		8.0	16.7	7.2	7.4	8.4	9.0
SW	.2	.4	.4	.1	.4		1.6	23.1	1.7	1.5	.9	2.0
W	.3	.4	.0	.1	.1		1.0	16.3	1.3	.4	.6	1.6
NW	1.8	1.2	.1	.1	.0		3.2	6.9	5.2	1.6	2.7	3.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	2.9	2.6	1.2	1.8
TOT OBS	160	369	238	22	8	797		13.2	173	235	167	222
TOT PCT	20.1	46.3	29.9	2.8	1.0		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1920-1972
(OVER-ALL) 1883-1972

AREA 0004 ROCKHAMPTON
23.2S 152.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.9	4.6	39.3	43.9	9.2	.0	.0	12.4	100.0	173
06&09	2.6	5.1	34.0	45.1	11.5	.4	1.3	13.4	100.0	235
12&15	1.2	3.6	34.1	47.3	12.0	1.8	.0	13.8	100.0	167
18&21	1.8	5.4	36.0	45.0	9.9	1.4	.5	13.3	100.0	222
TOT	17	38	285	361	85	7	4	13.2		797
PCT	2.1	4.8	35.8	45.3	10.7	.9	.5		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.7	.3	2.2	.3		3.8
NE	4.0	1.8	.8	1.0		3.0
E	4.6	5.4	6.4	3.9		4.5
SE	11.1	14.2	19.1	6.9		4.6
S	2.3	2.8	1.9	1.7		4.4
SW	.3	.0	.1	.4		5.1
W	.0	.9	.0	.0		3.3
NW	1.1	.9	.9	.1		3.1
VAR	.0	.0	.0	.0		.0
CALM	2.0	1.0	.0	.0		1.5
TOT OBS	80	80	92	42	294	4.3
TOT PCT	27.2	27.2	31.3	14.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.7	.3	.0	.0	.0	.0	3.5	
NE	.0	.0	.0	.0	.8	.3	.0	.0	.0	.0	6.5	
E	.0	.0	1.7	1.7	1.4	1.4	.0	.0	.0	.0	14.0	
SE	.0	.0	2.9	3.6	4.8	4.1	1.1	.0	.0	.0	34.9	
S	.0	.0	.5	.5	.9	.0	.5	.0	.0	.0	6.3	
SW	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
NW	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	2.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	
TOT OBS	0	0	15	17	25	18	6	0	0	0	213	294
TOT PCT	.0	.0	5.1	5.8	8.5	6.1	2.0	.0	.0	.0	72.4	100.0

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 >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	1.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >2000	6.7	7.7	8.1	8.1	8.1	8.1	8.1	8.1
= OR >1000	13.1	15.8	16.5	16.5	16.5	16.5	16.5	16.5
= OR >600	16.8	20.5	22.2	22.2	22.2	22.2	22.2	22.2
= OR >300	17.5	24.6	26.9	26.9	27.3	27.3	27.3	27.3
= OR >150	17.5	24.6	26.9	26.9	27.3	27.3	27.3	27.3
= OR > 0	17.5	24.6	26.9	26.9	27.3	27.3	27.3	27.3
TOTAL	52	73	80	80	81	81	81	81

TOTAL NUMBER OF OBS: 297 PCT FREQ NH <5/8: 72.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.7	17.8	23.3	14.7	12.3	6.7	6.1	4.3	11.0	.0	326

PERIOD: (PRIMARY) 1920-1972
(OVER-ALL) 1883-1972

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.0	.2	.0	.2	.2	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.4	.0	.2	.2	.0	.0	.0	.0	.7	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.4	.5	.0	.0	.0	.0	.0	.0	.9	
	TOT %	.0	.0	.4	.5	.0	.0	.0	.0	.0	.0	.9	
2<5	PCP	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.0	.1	1.1	.0	.0	.0	.0	.0	.0	1.3	
5<10	PCP	.2	1.1	2.8	4.0	1.8	1.0	.4	.2	.0	.0	11.4	
	NO PCP	2.1	2.5	9.6	13.5	2.5	.9	.4	.9	.0	.5	32.9	
	TOT %	2.3	3.6	12.5	17.5	4.2	1.9	.7	1.1	.0	.5	44.2	
10+	PCP	.1	.5	.4	.9	.0	.0	.0	*	.0	.0	2.0	
	NO PCP	2.5	4.0	9.5	26.1	4.7	.2	.5	1.5	.0	1.6	50.7	
	TOT %	2.7	4.6	9.9	27.0	4.7	.2	.5	1.6	.0	1.6	52.7	
	TOT OBS												554
	TOT PCT	4.9	8.2	23.4	46.1	9.1	2.3	1.2	2.7	.0	2.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.4	.1	.2	.2	.0	.0	.0		.8	
	TOT %	.0	.0	.7	.1	.2	.2	.0	.0	.0	.0	1.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.1	.0	.3	.6	.0	.0	.0	.1	.0		1.1	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.1	.0	.3	.8	.0	.0	.0	.1	.0	.0	1.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	11-21	.3	.0	.0	.7	.1	.0	.0	.0	.0		1.1	
	22+	.1	.0	.2	.4	.0	.0	.0	.1	.0		.8	
	TOT %	.4	.0	.2	1.3	.1	.0	.0	.1	.0	.0	2.1	
5<10	0-3	.4	.0	.6	.2	.0	.2	.0	.4	.0	.5	2.2	
	4-10	1.1	2.2	4.5	4.2	1.0	.2	.2	.3	.0		13.6	
	11-21	.5	1.0	5.4	8.0	1.5	.6	.2	.2	.0		17.5	
	22+	.0	.0	1.0	3.9	1.4	.6	.3	.0	.0		7.2	
	TOT %	2.0	3.2	11.5	16.3	3.9	1.6	.6	1.0	.0	.5	40.6	
10+	0-3	.1	.8	.4	.2	.0	.0	.2	.2	.0	1.4	3.4	
	4-10	2.5	3.7	5.4	5.8	1.4	.1	.1	1.4	.0		20.4	
	11-21	.7	.7	5.5	17.7	2.3	.1	.2	.1	.0		27.3	
	22+	.0	.0	.6	2.6	.5	.0	.0	.0	.0		3.7	
	TOT %	3.3	5.1	12.0	26.3	4.2	.2	.4	1.7	.0	1.4	54.7	
	TOT OBS												623
	TOT PCT	5.8	8.3	24.9	44.9	8.3	2.0	1.1	2.8	.0	1.9	100.0	

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PERIOD: (PRIMARY) 1920-1972
(OVER-ALL) 1883-1972

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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
00&03	.0	.0	3.4	6.9	8.0	4.6	3.4	.0	.0	.0	26.4	73.6	87
06&09	.0	.0	3.9	3.9	10.5	5.3	2.6	.0	.0	.0	26.3	73.7	76
12&15	.0	.0	4.9	4.9	6.1	6.1	1.2	.0	.0	.0	23.2	76.8	82
18&21	.0	.0	7.0	5.6	8.5	7.0	.0	.0	.0	.0	28.2	71.8	71
TOT	0	0	15	17	26	18	6	0	0	0	82	234	316
PCT	.0	.0	4.7	5.4	8.2	5.7	1.9	.0	.0	.0	25.9	74.1	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
00&03	.0	.0	2.8	2.8	32.4	62.0	142
06&09	.6	.6	1.7	1.1	46.7	49.4	180
12&15	.0	.8	.0	2.3	31.6	65.4	133
18&21	.0	2.8	.6	2.3	47.5	46.9	177
TOT	1	7	8	13	256	347	632
PCT	.2	1.1	1.3	2.1	40.5	54.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	.000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.7	11.0	17.1	72.0	82
06&09	.0	4.1	8.1	18.9	73.0	74
12&15	.0	5.2	13.0	11.7	75.3	77
18&21	.0	7.8	14.1	15.6	70.3	64
TOT	0	15	34	47	216	297
PCT	.0	5.1	11.4	15.8	72.7	100.0

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
90/94	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
85/89	.0	.0	.0	.0	.9	2.0	.0	.2	14	3.1
80/84	.0	.0	.0	.0	3.7	13.2	12.7	4.4	164	36.0
75/79	.0	.0	.0	.4	5.9	28.6	15.2	8.4	266	58.5
70/74	.0	.0	.0	.0	.0	.2	.7	1.3	10	2.2
TOTAL	0	0	0	3	48	209	130	65	455	100.0
PCT	.0	.0	.0	.7	10.5	45.9	28.6	14.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
	.0	.3	.9	1.4	.0	.0	.0	.0	.0	.4
	4.5	4.2	9.0	12.0	1.8	.1	.6	2.5	.0	1.5
	1.4	3.6	12.6	31.1	6.4	1.2	.9	.8	.0	.7
	.0	.0	.2	.7	1.0	.3	.0	.0	.0	.0
	5.9	8.1	22.6	45.4	9.1	1.5	1.5	3.2	.0	2.6

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	87	86	85	80	76	75	73	80.2	170
06&09	92	87	84	79	75	72	71	79.5	236
12&15	84	82	81	78	74	73	71	78.0	163
18&21	88	85	82	78	74	71	69	77.9	221
TOT	92	86	83	79	75	72	69	78.9	790

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	.9	15.0	50.5	23.4	10.3	77	107
06&09	.0	.8	11.7	46.9	27.3	13.3	79	128
12&15	.0	.0	8.7	49.0	28.8	13.5	79	104
18&21	.0	.8	8.8	37.6	33.6	19.2	81	125
TOT	0	3	31	212	132	66	79	464

PERIOD: (PRIMARY) 1920-1972
(OVER-ALL) 1883-1972

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) 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	WO FOG
11/13	.0	.0	.0	.0	.0	.2	1	.0	.2
9/10	.0	.0	.0	.0	.2	.0	1	.0	.2
7/8	.0	.0	.2	.0	.0	.0	1	.0	.2
6	.0	.0	.0	.0	.5	.0	2	.0	.5
5	.0	.0	.7	.2	1.4	.0	10	.0	2.3
4	.0	.0	1.2	.2	1.6	.0	13	.0	3.0
3	.0	.0	1.4	1.2	.0	.0	11	.0	2.6
2	.0	.0	1.9	3.5	.0	.0	23	.0	5.4
1	.0	.5	6.1	6.5	.0	.0	56	.0	13.1
0	.2	1.2	13.1	5.1	.0	.0	84	.0	19.6
-1	.0	2.8	13.1	2.3	.0	.0	78	.0	18.2
-2	.0	1.2	13.8	1.4	.0	.0	70	.0	16.3
-3	.0	3.0	5.6	1.2	.0	.0	42	.2	9.6
-4	.0	.5	4.0	.0	.0	.0	19	.0	4.4
-5	.0	.5	1.9	.0	.0	.0	10	.0	2.3
-6	.5	.9	.2	.0	.0	.0	7	.0	1.6
-7/-8	.0	.2	.0	.0	.0	.0	1	.0	.2
TOTAL	3	46	270	93	16	1	429	1	428
PCT	.7	10.7	62.9	21.7	3.7	.2	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

	N							NE						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.8	1.5	.0	.0	.0	.0	2.3
1-2	.3	1.9	.3	.0	.0	.0	2.5	.4	2.1	.0	.0	.0	.0	2.5
3-4	.0	.7	.3	.0	.0	.0	1.1	.0	.9	.1	.0	.0	.0	1.1
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.3	.0	.0	.0	.3	.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
TOT PCT	.3	3.7	1.4	.0	.0	.0	5.4	1.3	4.5	.5	.0	.0	.0	6.3

	E							SE						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5	.4	2.2	.0	.0	.0	.0	2.6
1-2	.0	3.5	1.5	.0	.0	.0	4.9	.0	4.7	4.1	.0	.0	.0	8.8
3-4	.0	1.3	5.9	.0	.0	.0	7.1	.0	2.6	13.6	.4	.0	.0	16.6
5-6	.0	1.2	2.2	.0	.0	.0	3.4	.0	.5	11.8	1.3	.0	.0	13.6
7	.0	.0	.4	.6	.0	.0	1.1	.0	.0	3.2	1.5	.0	.0	4.6
8-9	.0	.0	.4	.4	.0	.0	.8	.0	.0	2.1	.5	.0	.0	2.6
10-11	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	1.1	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4	.4	.0	.0	.8
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
TOT PCT	.0	7.4	10.8	1.7	.0	.0	19.9	.4	10.1	35.1	5.1	.0	.0	50.7

PERIOD: (OVER-ALL) 1963-1977

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.5	.3	.0	.0	.0	1.8
3-4	.0	.7	1.6	.0	.0	.0	2.3
5-6	.0	.0	.7	.0	.0	.0	.7
7	.0	.3	2.4	.8	.0	.0	3.6
8-9	.0	.0	.4	.7	.4	.0	1.6
10-11	.0	.0	.4	.0	.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
TOT PCT	.0	2.5	5.9	1.6	.4	.0	10.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.1	.3	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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	.1	.3	.0	.0	.0	.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.0	.0	.0	.0	.0	.4
1-2	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	.3	.4	.0	.0	.0	1.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	.5	.0	.0	.0	.0	.9	
1-2	.1	1.2	.1	.0	.0	.0	1.4	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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+	.5	1.7	.2	.0	.0	.0	2.4	96.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.2	6.6	.0	.0	.0	.0	12.8	
1-2	2.1	14.8	6.2	.0	.0	.0	23.0	
3-4	.0	6.2	21.4	.4	.0	.0	28.0	
5-6	.0	1.6	15.2	1.2	.0	.0	18.1	
7	.0	.4	6.2	2.9	.0	.0	9.5	
8-9	.0	.0	3.3	1.6	.4	.0	5.3	
10-11	.0	.0	.4	1.6	.0	.0	2.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.8	.4	.0	.0	1.2	
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	
TOT PCT	8.2	29.6	53.5	8.2	.4	.0	100.0	243

PERIOD: (OVER-ALL) 1949-1972

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	7.4	10.5	7.7	2.8	.7	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	94	4
6-7	.0	.4	10.2	11.2	4.6	3.9	2.1	.7	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97	6
8-9	.0	.0	1.1	4.2	6.3	5.6	1.8	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	7
10-11	.0	.4	.4	.7	.0	1.1	1.1	.7	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	9
12-13	.0	.0	1.1	.0	.0	.0	.7	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	8
>13	.0	.0	.0	.4	.0	.0	.4	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	11
INDET	1.1	.7	.4	1.1	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	4
TOTAL	11	25	67	72	39	32	22	6	9	2	0	0	0	0	0	0	0	0	0	285	6
PCT	3.9	8.8	23.5	25.3	13.7	11.2	7.7	2.1	3.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1917-1971
(OVER-ALL) 1882-1971

AREA 0004 ROCKHAMPTON
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.4	.0	.0	.0	.0	.0	.0	3.4	.0	5.2	.0	.0	.0	.0		91.4
NE	2.7	8.2	1.4	.0	.0	.0	.0	12.3	2.7	.7	.0	.0	.0	.0		84.2
E	3.4	7.1	1.4	.0	.0	.0	.0	11.8	1.5	.0	1.2	.0	.0	.0		85.4
SE	3.1	8.1	.5	.0	.0	.0	.0	11.7	4.9	.8	.4	.0	.0	.0		82.1
S	7.5	3.1	.0	.0	.0	.0	.0	10.6	1.9	.0	.0	.0	2.5	.0		85.1
SW	.0	12.5	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0		87.5
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
NW	3.3	13.1	.0	.0	.0	.0	.0	16.4	.0	.0	.0	.0	.0	.0		83.6
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	.0	.0		100.0
TOT PCT	3.4	7.1	.7	.0	.0	.0	.0	11.2	3.0	.6	.6	.0	.2	.0		84.5
TOT OBS:	534															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.6	6.5	.0	.0	.0	.0	.0	10.1	4.3	.0	.7	.0	.7	.0		84.2
06&09	5.0	7.5	1.2	.0	.0	.0	.0	13.7	1.2	.0	1.2	.0	.0	.0		83.9
12&15	.9	6.9	.0	.0	.0	.0	.0	7.8	2.6	1.7	.0	.0	.0	.0		87.9
18&21	3.1	7.0	1.6	.0	.0	.0	.0	11.6	3.9	.8	.0	.0	.0	.0		83.7
TOT PCT	3.3	7.0	.7	.0	.0	.0	.0	11.0	2.9	.6	.6	.0	.2	.0		84.8
TOT OBS:	545															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	3.1	.9	.1	.0	.0		4.3	8.4	.0	3.1	4.5	4.9	6.1	7.2	4.5	5.3
NE	1.4	5.9	1.9	.3	.0	.0		9.6	8.3	3.0	12.0	6.5	9.9	6.1	13.2	12.1	17.3
E	1.9	12.4	11.9	2.3	.4	.0		28.9	12.4	34.5	25.0	24.2	33.2	26.7	33.6	32.2	19.3
SE	.8	10.0	20.0	9.7	1.6	.0		42.1	16.9	42.3	40.9	48.0	41.5	45.3	38.8	35.7	42.7
S	.8	2.0	2.9	1.1	.4	.0		7.2	14.0	14.3	8.1	6.4	2.2	9.6	3.9	6.6	6.0
SW	.0	.4	.7	.0	.0	.0		1.1	12.6	3.0	.0	1.2	1.1	.0	.0	1.4	1.3
W	.1	1.0	.2	.1	.0	.0		1.5	8.0	.8	4.2	2.0	1.1	1.2	.0	.7	1.3
NW	.2	2.1	.7	.2	.0	.0		3.2	9.1	1.3	4.7	2.5	4.9	2.6	2.0	3.4	5.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0	1.0	2.1	2.9	1.1	2.3	1.3	3.4	1.3
TOT OBS	64	311	330	117	20	0	842		13.4	100	96	173	91	86	76	145	75
TOT PCT	7.6	36.9	39.2	13.9	2.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.0	2.0	.3	.0	.0		4.3	8.4	1.5	4.6	6.6	4.8
NE	4.8	3.7	1.2	.0	.0		9.6	8.3	7.4	7.7	9.4	13.9
E	5.7	15.7	6.2	1.4	.0		28.9	12.4	29.8	28.6	29.9	27.8
SE	2.9	18.8	14.7	5.6	.1		42.1	16.9	41.6	45.7	42.3	38.1
S	1.0	3.9	1.5	.7	.0		7.2	14.0	11.2	4.9	6.9	6.4
SW	.0	.8	.2	.0	.0		1.1	12.6	1.5	1.1	.0	1.4
W	.8	.5	.1	.0	.0		1.5	8.0	2.4	1.7	.6	.9
NW	1.9	1.0	.1	.2	.0		3.2	9.1	2.9	3.3	2.3	4.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	1.5	2.3	1.9	2.7
TOT OBS	179	391	205	66	1	842		13.4	196	264	162	220
TOT PCT	21.3	46.4	24.3	7.8	.1		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1917-1971
(OVER-ALL) 1882-1971

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.5	6.1	36.2	41.3	12.8	2.0	.0	13.4	100.0	196
06&09	2.3	4.2	33.7	42.8	14.0	3.0	.0	14.0	100.0	264
12&15	1.9	5.6	31.5	43.2	16.0	1.9	.0	13.9	100.0	162
18&21	2.7	6.4	45.5	30.0	13.2	2.3	.0	12.3	100.0	220
TOT	18	46	311	330	117	20	0	13.4		842
PCT	2.1	5.5	36.9	39.2	13.9	2.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.9	.0	.0	.5		2.1
NE	2.7	1.4	.6	.7		3.0
E	7.4	7.2	9.5	4.7		4.4
SE	10.2	10.4	16.4	9.1		4.8
S	2.7	1.7	2.7	2.0		4.6
SW	1.0	.6	.3	.6		4.0
W	.9	.3	.0	.0		1.0
NW	1.8	.0	.3	.4		2.7
VAR	.0	.0	.0	.0		.0
CALM	1.9	.0	.0	.0		.6
TOT OBS	95	67	93	56	311	4.3
TOT PCT	30.5	21.5	29.9	18.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 2499	2500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	2.2	
NE	.0	.0	.0	.0	.7	.0	.0	.3	.0	.0	4.4	
E	.0	.0	1.0	3.9	3.6	2.2	.3	.0	.0	.0	17.8	
SE	.0	.0	.3	5.6	10.3	2.4	.3	.0	1.0	.3	25.8	
S	.0	.0	.0	.8	2.5	.6	.3	.0	.0	.0	5.0	
SW	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	1.9	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	
TOT OBS	0	0	5	33	54	16	3	1	3	1	195	311
TOT PCT	.0	.0	1.6	10.6	17.4	5.1	1.0	.3	1.0	.3	62.7	100.0

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 >50YD	= OR >0
= OR >6500	.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >5000	1.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >3500	1.6	2.2	2.5	2.5	2.5	2.5	2.5	2.5
= OR >2000	6.0	7.3	7.6	7.6	7.6	7.6	7.6	7.6
= OR >1000	17.1	23.8	25.1	25.1	25.1	25.1	25.1	25.1
= OR >600	25.4	33.7	35.6	35.6	35.6	35.6	35.6	35.6
= OR >300	26.0	35.2	37.1	37.1	37.1	37.1	37.1	37.1
= OR >150	26.0	35.2	37.1	37.1	37.1	37.1	37.1	37.1
= OR > 0	26.0	35.2	37.1	37.1	37.1	37.1	37.1	37.1
TOTAL	82	111	117	117	117	117	117	117

TOTAL NUMBER OF OBS: 315 PCT FREQ NH <5/8: 62.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
8.3	15.6	17.2	14.7	8.1	10.6	7.8	6.4	11.4	.0	360

PERIOD: (PRIMARY) 1917-1971
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.4	.2	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.7	.3	.0	.0	.0	.0	.0	.0	.9	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
2<5	PCP	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.0	.9	.4	.0	.0	.0	.0	.0	1.3	
5<10	PCP	.1	.8	2.4	4.2	.4	.2	.0	.5	.0	.0	8.6	
	NO PCP	.7	2.3	8.8	13.2	1.0	.0	.9	.8	.0	.4	28.3	
	TOT %	.7	3.2	11.3	17.4	1.5	.2	.9	1.3	.0	.4	36.9	
10+	PCP	.0	.0	.9	.6	.0	.0	.0	.0	.0	.0	1.5	
	NO PCP	2.0	3.7	17.6	25.4	5.5	1.3	.8	1.5	.0	1.3	59.2	
	TOT %	2.0	3.7	18.5	26.0	5.5	1.3	.8	1.5	.0	1.3	60.7	
	TOT OBS												534
	TOT PCT	2.7	6.8	30.5	44.7	7.5	1.5	1.7	2.9	.0	1.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.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	
	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.6	.1	.0	.0	.0	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.6	.2	.0	.0	.0	.0	.0	.0	.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.2	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.2	.5	.2	.0	.0	.0	.0		.8	
	22+	.0	.0	.1	.6	.2	.0	.0	.0	.0		.8	
	TOT %	.0	.0	.3	1.3	.3	.0	.0	.0	.0	.0	2.0	
5<10	0-3	.0	.6	.4	.4	.2	.0	.2	.3	.0	.7	2.8	
	4-10	.7	1.9	4.5	2.5	.1	.0	.7	1.0	.0		11.3	
	11-21	.2	.7	5.3	7.4	.6	.2	.0	.2	.0		14.5	
	22+	.0	.0	.0	5.1	.3	.0	.2	.3	.0		5.9	
	TOT %	.8	3.1	10.2	15.4	1.3	.2	1.0	1.8	.0	.7	34.4	
10+	0-3	.2	.4	.6	.5	.5	.0	.0	.0	.0	1.6	3.9	
	4-10	1.2	2.8	9.2	8.4	1.5	.5	.5	1.2	.0		25.3	
	11-21	.4	.4	7.6	12.8	2.3	.8	.3	.5	.0		25.3	
	22+	.0	.0	1.3	6.0	.9	.0	.0	.0	.0		8.2	
	TOT %	1.9	3.7	18.7	27.7	5.2	1.3	.8	1.8	.0	1.6	62.6	
	TOT OBS												613
	TOT PCT	2.7	6.8	29.8	44.7	7.0	1.5	1.8	3.5	.0	2.3	100.0	

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PERIOD: (PRIMARY) 1917-1971
(OVER-ALL) 1882-1971

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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
00&03	.0	.0	1.0	9.0	15.0	3.0	2.0	.0	2.0	.0	32.0	68.0	100
06&09	.0	.0	1.1	11.1	16.7	4.4	1.1	.0	.0	.0	34.4	65.6	90
12&15	.0	.0	2.4	9.4	16.5	5.9	.0	1.2	.0	1.2	36.5	63.5	85
18&21	.0	.0	1.4	8.3	15.3	5.6	.0	.0	1.4	.0	31.9	68.1	72
TOT	0	0	5	33	55	16	3	1	3	1	117	230	347
PCT	.0	.0	1.4	9.5	15.9	4.6	.9	.3	.9	.3	33.7	66.3	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
00&03	.0	.7	.7	2.0	29.6	67.1	152
06&09	.0	2.1	.0	2.1	38.2	57.6	191
12&15	.0	.0	.0	2.3	29.2	68.5	130
18&21	.0	.0	.0	1.3	38.4	60.3	151
TOT	0	5	1	12	214	392	624
PCT	.0	.8	.2	1.9	34.3	62.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.1	12.8	21.3	66.0	94
06&09	.0	1.2	13.4	24.4	62.2	82
12&15	.0	2.6	14.5	26.3	59.2	76
18&21	.0	1.6	12.7	23.8	63.5	63
TOT	0	5	42	75	198	315
PCT	.0	1.6	13.3	23.8	62.9	100.0

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
85/89	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
80/84	.0	.0	.0	.9	7.0	11.6	3.9	1.5	114	24.9
75/79	.0	.0	.2	1.7	13.3	28.6	21.0	5.9	324	70.7
70/74	.0	.0	.0	.0	.2	1.1	1.5	1.1	18	3.9
65/69	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
TOTAL	0	0	1	13	94	189	121	40	458	100.0
PCT	.0	.0	.2	2.8	20.5	41.3	26.4	8.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0
	.7	1.9	7.4	10.2	2.0	.7	1.1	.8	.0	.2
	2.0	2.8	22.1	31.9	5.8	1.1	.9	2.4	.0	1.7
	.0	.2	1.3	2.1	.3	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
	2.9	4.9	30.7	44.2	8.4	1.7	2.0	3.2	.0	2.0

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	87	83	79	74	71	70	78.8	190
06&09	87	84	83	79	74	71	69	78.7	266
12&15	84	83	80	77	73	74	71	77.6	163
18&21	86	84	80	77	73	70	68	77.1	220
TOT	88	84	82	78	74	71	68	78.1	839

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	2.5	28.8	44.1	20.3	4.2	74	118
06&09	.0	5.1	21.9	42.3	23.4	7.3	75	137
12&15	.0	2.9	16.2	41.0	32.4	7.6	77	103
18&21	.0	1.8	14.5	39.1	28.2	16.4	79	110
TOT	0	15	97	196	121	41	76	470

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.2	.0	1	.0	.2
6	.0	.0	.0	.2	.2	.0	2	.0	.5
5	.0	.0	.0	.7	.5	.0	5	.0	1.2
4	.0	.0	.0	.7	.7	.2	7	.0	1.6
3	.0	.0	.0	1.8	2.1	.2	18	.0	4.1
2	.0	.0	.5	3.5	3.7	.0	33	.2	7.4
1	.0	.0	.5	6.7	1.8	.0	39	.2	8.8
0	.0	.0	1.8	10.6	1.6	.0	61	.0	14.1
-1	.0	.0	2.3	15.4	.9	.0	81	.2	18.4
-2	.0	.0	3.5	10.8	.0	.0	62	.0	14.3
-3	.0	.0	3.9	7.8	.5	.0	53	.0	12.2
-4	.0	.0	3.2	3.0	.0	.0	27	.0	6.2
-5	.0	.0	2.5	2.5	.0	.0	22	.0	5.1
-6	.0	.0	.9	.7	.0	.0	7	.0	1.6
-7/-8	.0	.7	1.4	.5	.0	.0	11	.0	2.5
-9/-10	.2	.2	.0	.2	.0	.0	3	.0	.7
-11/-13	.0	.5	.0	.0	.0	.0	2	.0	.5
TOTAL	1	6	89	283	53	2	434	3	431
PCT	.2	1.4	20.5	65.2	12.2	.5	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.3	.0	.0	.0	.0	1.6
1-2	.0	.3	.0	.0	.0	.0	.3
3-4	.3	.4	.4	.0	.0	.0	1.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.6	2.0	.4	.0	.0	.0	2.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.5	.0	.0	.0	.0	.9
1-2	.0	3.5	.6	.0	.0	.0	4.1
3-4	.1	.8	.4	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.6	4.7	.9	.0	.0	.0	6.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.4	7.9	1.7	.0	.0	.0	9.9
3-4	.0	4.8	5.6	.0	.0	.0	10.4
5-6	.0	.3	3.1	.0	.0	.0	3.4
7	.0	.0	1.8	1.6	.0	.0	3.4
8-9	.0	.0	.3	.3	.0	.0	.6
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.4	.0	.0	.0	.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
TOT PCT	.4	14.1	12.5	2.2	.0	.0	29.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	5.0	2.1	.0	.0	.0	7.1
3-4	.0	2.7	7.3	1.6	.0	.0	11.6
5-6	.0	1.2	4.2	3.5	.4	.0	9.3
7	.0	.0	3.6	5.2	.6	.0	9.4
8-9	.0	.0	1.2	.9	1.1	.0	3.3
10-11	.0	.0	.0	1.2	.2	.0	1.4
12	.0	.0	.0	.4	.0	.0	.4
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
TOT PCT	.0	9.4	18.4	12.9	2.3	.0	42.9

PERIOD: (OVER-ALL) 1963-1971

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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.4	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.4	1.3	.0	.0	.0	2.7	.0	.8	.0	.0	.0	.0	.8
3-4	.0	.8	1.9	.3	.0	.0	2.9	.0	.0	1.9	.0	.0	.0	1.9
5-6	.0	.0	1.0	.3	.0	.0	1.3	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.3	.0	.6	.0	.9	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.6	.0	.6	.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
TOT PCT	.4	2.6	4.9	1.2	1.1	.0	10.2	.0	.8	2.3	.0	.0	.0	3.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	
1-2	.0	.0	.3	.0	.0	.0	.3	.0	.9	.1	.0	.0	.0	.9	
3-4	.0	.8	.4	.0	.0	.0	1.1	.0	.4	.8	.0	.0	.0	1.1	
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	
TOT PCT	.0	.8	.7	.0	.0	.0	1.4	.0	1.7	.9	.0	.0	.0	2.6	98.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.0	3.8	.4	.0	.0	.0	7.1	
1-2	.4	19.5	6.0	.0	.0	.0	25.9	
3-4	.8	10.5	18.4	1.9	.0	.0	31.6	
5-6	.0	1.5	8.6	3.8	.4	.0	14.3	
7	.0	.0	5.6	6.8	1.1	.0	13.5	
8-9	.0	.0	1.5	1.9	1.1	.0	4.5	
10-11	.0	.0	.0	1.5	.8	.0	2.3	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.4	.0	.0	.0	.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	
								266
TOT PCT	4.1	35.7	40.6	16.2	3.4	.0	100.0	

PERIOD: (OVER-ALL) 1949-1971

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	7.0	11.8	5.4	1.6	1.3	1.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	4
6-7	.0	.0	7.3	14.0	6.4	4.5	1.9	1.0	1.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	116	6
8-9	.0	.3	1.3	5.4	4.1	5.4	2.5	1.6	.3	.6	.3	.6	.0	.0	.0	.0	.0	.0	.0	71	8
10-11	.0	.0	.3	.3	.0	.3	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	9
12-13	.0	.0	.6	.3	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
>13	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	3	18
INDET	.6	1.0	1.3	.3	.3	.3	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	5
TOTAL	5	26	71	81	42	38	22	11	8	2	3	5	0	0	0	0	0	0	0	314	6
PCT	1.6	8.3	22.6	25.8	13.4	12.1	7.0	3.5	2.5	.6	1.0	1.6	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1881-1969

AREA 0004 ROCKHAMPTON
23.2S 152.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	2.6	1.9	.0	.0	.0	.0	4.5	1.9	7.1	.0	.0	.0		.0	86.5
NE	6.8	5.5	2.3	.0	.0	.0	.0	14.6	2.3	5.0	1.8	.0	.0		.0	80.8
E	5.9	9.3	.0	.0	.0	.0	.0	15.2	.7	2.0	.0	.0	.0		.0	82.5
SE	6.6	8.4	.0	.0	.0	.0	.0	15.0	2.4	.6	.0	.0	.0		.0	82.0
S	2.6	8.2	.0	.0	.0	.0	.0	10.9	.0	.0	.0	.0	.0		.0	89.1
SW	2.4	1.2	.0	.0	.0	.0	.0	3.6	2.4	.0	.0	.0	.0		.0	94.1
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	2.7	2.7	.0	.0	.0	.0	.0	5.4	.0	.0	.0	.0	.0		.0	94.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	5.9	.0	.0	.0	.0	5.9	.0	.0	.0	.0	.0		.0	94.1
TOT PCT	4.8	6.8	.4	.0	.0	.0	.0	12.0	1.4	1.4	.1	.0	.0		.0	85.4
TOT OBS:	693															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	5.0	7.9	.0	.0	.0	.0	.0	12.9	.7	.7	.7	.0	.0		.0	84.9
06&09	4.7	8.5	.5	.0	.0	.0	.0	13.7	2.4	1.4	.0	.0	.0		.0	82.5
12&15	2.6	6.5	.0	.0	.0	.0	.0	9.1	1.9	2.6	.0	.0	.0		.0	87.0
18&21	5.9	4.9	1.0	.0	.0	.0	.0	11.7	.5	1.5	.0	.0	.0		.0	87.3
TOT PCT	4.7	6.9	.4	.0	.0	.0	.0	12.0	1.4	1.6	.1	.0	.0		.0	85.3
TOT OBS:	709															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	4.0	.8	.0	.0	.0		5.6	7.1	2.7	3.2	5.7	11.5	.0	13.4	4.8	3.3
NE	1.1	5.9	.9	.1	.0	.0		8.1	7.1	2.7	5.4	6.5	9.9	7.7	8.6	13.9	6.5
E	.8	8.6	8.2	1.6	.5	.0		19.8	12.6	30.4	11.7	16.7	13.5	33.5	14.5	25.9	13.6
SE	.8	12.9	19.5	5.1	.6	.0		38.9	14.2	40.1	41.9	42.7	40.1	46.3	37.6	31.0	34.2
S	1.2	5.0	4.7	1.1	.3	.0		12.2	11.9	10.5	14.0	13.9	10.4	6.8	10.8	11.1	18.5
SW	.5	2.8	1.3	.1	.0	.0		4.7	9.2	3.9	8.6	6.3	2.1	2.3	3.2	2.9	7.1
W	.6	1.9	.4	.0	.0	.0		2.9	6.7	2.1	6.3	3.1	4.2	.0	2.2	1.6	3.8
NW	.8	3.4	1.0	.1	.0	.0		5.3	7.9	6.3	6.3	3.5	7.3	.0	7.5	4.7	8.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6							2.6	.0	1.2	2.7	1.6	1.0	3.4	2.2	4.1	4.3
TOT OBS	85	412	340	76	13	0	926		11.5	83	111	192	96	88	93	171	92
TOT PCT	9.2	44.5	36.7	8.2	1.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.9	2.5	.2	.0	.0		5.6	7.1	3.0	7.6	6.9	4.3
NE	4.3	3.5	.3	.0	.0		8.1	7.1	4.3	7.6	8.1	11.3
E	4.0	10.6	4.2	.9	.0		19.8	12.6	19.7	15.6	23.8	21.6
SE	5.3	19.4	12.7	1.4	.1		38.9	14.2	41.1	41.8	41.9	32.1
S	2.8	6.6	2.4	.4	.0		12.2	11.9	12.5	12.8	8.8	13.7
SW	1.5	2.9	.2	.0	.0		4.7	9.2	6.6	4.9	2.8	4.4
W	1.6	1.3	.0	.0	.0		2.9	6.7	4.5	3.5	1.1	2.4
NW	2.2	2.9	.2	.0	.0		5.3	7.9	6.3	4.8	3.9	6.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.6						2.6	.0	2.1	1.4	2.8	4.2
TOT OBS	252	461	187	25	1	926		11.5	194	288	181	263
TOT PCT	27.2	49.8	20.2	2.7	.1		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1881-1969

AREA 0004 ROCKHAMPTON
23.25 152.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	2.1	5.2	46.9	34.0	9.3	2.6	.0	11.9	100.0	194
06&09	1.4	9.4	42.4	36.8	8.3	1.7	.0	11.7	100.0	288
12&15	2.8	4.4	40.9	42.0	9.4	.6	.0	11.8	100.0	181
18&21	4.2	6.1	47.5	35.0	6.5	.8	.0	10.7	100.0	263
TOT	24	61	412	340	76	13	0	11.5		926
PCT	2.6	6.6	44.5	36.7	8.2	1.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	.0	.8	.2		2.9
NE	3.2	1.4	.8	1.5		3.5
E	9.4	6.9	8.9	3.1		3.9
SE	12.1	12.5	12.9	3.6		4.0
S	5.6	3.6	2.0	.2		2.6
SW	2.2	1.3	1.0	.3		3.2
W	1.0	.0	.2	.0		2.5
NW	.8	1.3	.1	.0		2.6
VAR	.0	.0	.0	.0		.0
CALM	1.6	.3	.0	.0		1.3
TOT OBS	114	84	82	27	307	3.6
TOT PCT	37.1	27.4	26.7	8.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.0	.0	.0	.0	.6	.0	.0	.0	.0	1.4	
NE	.1	.0	.0	.0	.4	.4	.2	.0	.0	.0	5.6	
E	.0	.0	.0	2.5	4.4	.7	.7	.0	.0	.0	20.0	
SE	.0	.0	.3	2.0	6.9	2.9	.1	.0	.0	.0	28.8	
S	.0	.0	.0	.3	1.6	.0	.0	.0	.0	.0	9.5	
SW	.0	.0	.3	.0	.3	.3	.0	.0	.0	.0	3.8	
W	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	1.0	
NW	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	2.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
TOT OBS	1	0	2	16	42	15	3	0	0	0	228	307
TOT PCT	.3	.0	.7	5.2	13.7	4.9	1.0	.0	.0	.0	74.3	100.0

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 >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	.3	.6	.6	1.0	1.0	1.0	1.0	1.0
= OR >2000	3.9	5.2	5.2	5.8	5.8	5.8	5.8	5.8
= OR >1000	15.2	17.8	18.8	19.4	19.4	19.4	19.4	19.4
= OR >600	19.1	23.0	23.9	24.6	24.6	24.6	24.6	24.6
= OR >300	19.1	23.3	24.3	25.2	25.2	25.2	25.2	25.2
= OR >150	19.1	23.3	24.3	25.2	25.2	25.2	25.2	25.2
= OR > 0	19.4	23.6	24.6	25.6	25.6	25.6	25.6	25.6
TOTAL	60	73	76	79	79	79	79	79

TOTAL NUMBER OF OBS: 309

PCT FREQ NH <5/8: 74.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.0	20.2	18.1	16.9	9.6	10.2	6.0	5.1	4.8	.0	332

APRIL

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1881-1969

AREA 0004 ROCKHAMPTON
23.25 152.3E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
1<2	PCP	.1	.1	.1	.0	.0	.1	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.1	.0	.0	.1	.0	.0	.0	.0	.4	
2<5	PCP	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.1	.4	.1	.0	.0	.0	.0	.0	.0	.7	
5<10	PCP	.1	.8	2.0	3.7	1.0	.1	.0	.3	.0	.0	8.1	
	NO PCP	3.9	2.6	5.2	12.8	5.8	3.9	2.5	3.9	.0	1.4	42.1	
	TOT %	4.0	3.4	7.3	16.5	6.9	4.0	2.5	4.2	.0	1.4	50.2	
10+	PCP	.0	.1	1.0	1.2	.3	.0	.0	.0	.0	.1	2.7	
	NO PCP	1.5	4.0	12.7	17.5	5.1	2.0	.7	1.2	.0	.9	45.5	
	TOT %	1.5	4.1	13.6	18.7	5.4	2.0	.7	1.2	.0	1.0	48.2	
	TOT OBS												693
	TOT PCT	5.6	7.9	21.4	35.6	12.3	6.1	3.2	5.3	.0	2.5	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.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	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.1	.0	.0	.1	.0	.0	.0		.4	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.1	.3	.1	.0	.0	.0	.0	.0		.5	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.0	.1	.4	.1	.0	.0	.0	.0	.0	.0	.7	
5<10	0-3	.9	.4	.4	.6	.5	.5	.4	.5	.0	1.3	5.4	
	4-10	2.3	2.4	2.4	4.3	3.5	2.8	1.4	2.5	.0		21.6	
	11-21	.5	.2	2.9	8.5	2.1	.4	.5	.7	.0		15.7	
	22+	.0	.1	1.1	2.6	.7	.0	.0	.1	.0		4.6	
	TOT %	3.7	3.1	6.8	15.9	6.7	3.6	2.3	3.8	.0	1.3	47.2	
10+	0-3	.1	.5	.4	.3	1.0	.1	.1	.2	.0	1.1	3.7	
	4-10	1.5	3.1	6.1	6.1	1.3	.5	.7	.9	.0		20.0	
	11-21	.4	.4	5.7	11.5	2.7	1.2	.0	.3	.0		22.1	
	22+	.0	.0	1.2	3.1	1.0	.1	.0	.0	.0		5.4	
	TOT %	2.0	3.9	13.3	21.0	6.0	1.9	.8	1.3	.0	1.1	51.2	
	TOT OBS												760
	TOT PCT	5.8	7.4	20.6	37.4	12.6	5.6	3.1	5.1	.0	2.4	100.0	

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PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1881-1969

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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
00&03	1.2	.0	1.2	6.0	19.3	2.4	1.2	.0	.0	.0	31.3	68.7	83
06&09	.0	.0	1.1	4.6	13.8	8.0	.0	.0	.0	.0	27.6	72.4	87
12&15	.0	.0	.0	4.8	11.9	3.6	1.2	.0	.0	.0	21.4	78.6	84
18&21	.0	.0	.0	4.3	5.7	4.3	1.4	.0	.0	.0	15.7	84.3	70
TOT	1	0	2	16	42	15	3	0	0	0	79	245	324
PCT	.3	.0	.6	4.9	13.0	4.6	.9	.0	.0	.0	24.4	75.6	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
00&03	.7	.0	2.0	.0	38.8	58.6	152
06&09	.0	.4	.4	.8	50.2	48.1	239
12&15	.0	.6	.0	1.2	42.6	55.6	162
18&21	.0	.0	.0	.4	55.2	44.4	223
TOT	1	2	4	5	371	393	776
PCT	.1	.3	.5	.6	47.8	50.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.3	2.5	10.1	22.8	67.1	79
06&09	.0	1.1	9.2	18.4	72.4	87
12&15	.0	.0	6.4	17.9	75.6	78
18&21	.0	.0	6.2	10.8	83.1	65
TOT	1	3	25	55	229	309
PCT	.3	1.0	8.1	17.8	74.1	100.0

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
85/89	.0	.0	.2	.3	.2	.3	.0	.0	6	1.0
80/84	.0	.0	.2	.8	3.2	2.0	1.4	.8	50	8.4
75/79	.0	.2	.8	2.9	12.0	26.2	13.3	6.6	367	62.0
70/74	.0	.5	.5	1.5	5.2	8.4	7.6	3.0	159	26.9
65/69	.0	.0	.0	.0	.3	.2	1.0	.2	10	1.7
TOTAL	0	4	10	33	124	220	138	63	592	100.0
PCT	.0	.7	1.7	5.6	20.9	37.2	23.3	10.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	*	.1	.4	.3	.0	.1	.1	.0	.0
	.7	.6	1.4	2.0	.5	.8	.6	1.1	.0	.8
	4.1	6.2	15.4	22.7	4.6	1.9	2.6	3.6	.0	1.0
	.8	.8	4.8	10.3	5.2	2.6	.4	1.0	.0	1.0
	.0	.0	.2	.4	.6	.4	.1	.0	.0	.0
	5.6	7.6	21.8	35.9	11.1	5.6	3.8	5.7	.0	2.9

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	90	86	83	77	72	67	66	77.0	190
06&09	88	84	82	77	73	70	69	76.8	290
12&15	81	80	79	75	72	69	68	75.2	183
18&21	83	81	79	75	70	68	66	75.0	269
TOT	90	84	81	76	72	68	66	76.0	932

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	13.4	26.1	34.5	20.2	5.9	73	119
06&09	.0	10.6	21.7	34.4	21.7	11.7	75	180
12&15	.0	4.5	19.5	40.6	26.3	9.0	76	135
18&21	.0	4.0	16.8	35.3	23.7	16.2	78	173
TOT	0	48	125	225	139	68	75	605

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PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1881-1969

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
11/13	.0	.0	.3	.0	.0	.0	2	.0	.3
9/10	.0	.0	.0	.0	.3	.0	2	.0	.3
7/8	.0	.2	.0	.2	.0	.7	6	.0	1.0
6	.0	.0	.2	.3	.3	.2	6	.0	1.0
5	.0	.2	.2	.8	.7	.0	11	.0	1.8
4	.0	.3	.3	1.5	.8	.0	18	.0	3.0
3	.0	.2	.5	2.3	1.3	.0	26	.0	4.3
2	.0	.0	2.3	3.3	.8	.0	39	.0	6.4
1	.0	.0	2.8	5.6	.7	.0	55	.0	9.1
0	.0	.2	8.4	7.6	.3	.0	100	.0	16.5
-1	.0	1.0	11.2	5.1	.0	.0	105	.0	17.3
-2	.0	.5	10.2	4.0	.0	.0	89	.0	14.7
-3	.0	1.3	6.4	1.0	.0	.0	53	.0	8.7
-4	.0	.7	4.3	1.2	.0	.0	37	.0	6.1
-5	.0	.8	2.5	.3	.0	.0	22	.0	3.6
-6	.0	2.0	1.0	.0	.0	.0	18	.0	3.0
-7/-8	.7	.8	.7	.0	.0	.0	13	.0	2.1
-9/-10	.2	.3	.3	.0	.0	.0	5	.0	.8
TOTAL	5		313		32			0	607
		51		201		5	607		
PCT	.8	8.4	51.6	33.1	5.3	.8	100.0		100.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	1.4	.0	.0	.0	.0	1.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.3	.0	.0	.0	.0	2.7
1-2	.0	2.2	.4	.0	.0	.0	2.6
3-4	.0	.9	.0	.0	.0	.0	.9
5-6	.0	.4	.8	.0	.0	.0	1.2
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	5.8	1.3	.0	.0	.0	7.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.1	.3	.0	.0	.0	2.4
1-2	.0	5.2	2.9	.0	.0	.0	8.0
3-4	.0	3.2	5.2	.4	.0	.0	8.7
5-6	.0	1.8	2.9	.7	.0	.0	5.4
7	.0	.7	2.3	1.6	.0	.0	4.6
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	12.9	13.5	3.1	.0	.0	29.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.7	.1	.0	.0	.0	1.8
1-2	.0	5.0	2.3	.0	.0	.0	7.2
3-4	.0	2.4	11.3	.4	.0	.0	14.1
5-6	.0	1.0	5.5	3.1	.0	.0	9.5
7	.0	.5	1.7	1.7	.1	.0	4.0
8-9	.0	.0	1.2	.8	.0	.0	2.0
10-11	.0	.0	.4	2.0	.1	.0	2.5
12	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.4	.4	.0	.8
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	.4	.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
TOT PCT	.0	10.5	22.4	8.7	1.0	.0	42.7

PERIOD: (OVER-ALL) 1963-1969

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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.2	.0	.0	.0	.0	1.2	.0	.8	.0	.0	.0	.0	.8
3-4	.4	1.1	3.4	.0	.0	.0	4.9	.0	.0	1.2	.0	.0	.0	1.2
5-6	.0	.0	1.2	.6	.0	.0	1.8	.4	.4	.4	.0	.0	.0	1.2
7	.0	.0	.7	.3	.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.3	.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
TOT PCT	.4	2.3	5.3	.9	.6	.0	9.4	.4	1.2	1.6	.4	.0	.0	3.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.4	.3	.0	.0	.0	.0	.7	.0	.1	.0	.0	.0	.0	.1	
1-2	.0	.7	.0	.0	.0	.0	.7	.0	1.4	.0	.0	.0	.0	1.4	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
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	
TOT PCT	.4	1.0	.0	.0	.0	.0	1.4	.0	1.5	.4	.0	.0	.0	1.9	97.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.6	6.7	.4	.0	.0	.0	10.7	
1-2	.0	17.0	5.5	.0	.0	.0	22.5	
3-4	.8	7.9	21.3	.8	.0	.0	30.8	
5-6	.4	3.6	10.7	4.3	.0	.0	19.0	
7	.0	1.2	4.7	3.6	.4	.0	9.9	
8-9	.0	.0	1.2	1.6	.0	.0	2.8	
10-11	.0	.0	.4	2.0	.4	.0	2.8	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.0	.4	.4	.0	.8	
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	.4	.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	
								253
TOT PCT	4.7	36.4	44.3	13.0	1.6	.0	100.0	

PERIOD: (OVER-ALL) 1949-1969

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	11.5	13.8	3.3	3.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	110	3
6-7	.0	3.0	7.9	8.6	6.3	1.3	2.0	1.0	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	94	6
8-9	.0	.7	1.0	7.9	3.9	3.0	1.3	.7	2.3	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	65	8
10-11	.0	.7	.0	.0	.0	1.6	.7	.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	8
12-13	.0	.0	.0	.0	1.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
>13	.0	.0	.0	.0	.3	.3	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	10
INDET	2.0	.3	.7	1.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	3
TOTAL	16	49	71	63	44	21	13	9	15	1	1	0	1	0	0	0	0	0	0	304	5
PCT	5.3	16.1	23.4	20.7	14.5	6.9	4.3	3.0	4.9	.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1881-1970

AREA 0004 ROCKHAMPTON
23.25 152.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	3.3	.0	.0	.0	.0	.0	3.3	1.6	.0	.0	.0	.0	.0		95.1
NE	1.7	7.8	1.7	.0	.0	.0	.0	11.3	.9	1.7	.0	.0	.0	.0		86.1
E	2.9	6.6	.0	.0	.0	.0	.0	9.4	2.3	2.5	.0	.0	.0	.0		85.8
SE	2.1	12.3	.0	.0	.0	.0	.0	14.4	1.7	.0	.0	.0	.0	.0		83.9
S	1.2	4.4	1.2	.0	.0	.0	.0	6.7	1.6	1.6	.6	.0	.0	.0		89.5
SW	.9	4.1	.0	.0	.0	.0	.0	5.0	.0	2.1	.0	.0	.0	.0		92.9
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
NW	.0	1.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0		99.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	2.3	.0	.0	.0	.0	.0	2.3	.0	.0	2.3	.0	.0	.0		95.3
TOT PCT	1.5	6.6	.3	.0	.0	.0	.0	8.4	1.2	1.0	.2	.0	.0	.0		89.1
TOT OBS:	894															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.5	5.4	.0	.0	.0	.0	.0	5.9	1.6	.0	.0	.0	.0	.0		92.5
06&09	1.3	5.6	.3	.0	.0	.0	.0	7.3	1.3	.3	.0	.0	.0	.0		91.0
12&15	2.2	7.3	.6	.0	.0	.0	.0	10.1	1.7	2.2	.0	.0	.0	.0		86.0
18&21	1.5	7.3	.4	.0	.0	.0	.0	9.2	.4	1.5	.8	.0	.0	.0		88.2
TOT PCT	1.4	6.4	.3	.0	.0	.0	.0	8.1	1.2	1.0	.2	.0	.0	.0		89.5
TOT OBS:	928															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	2.6	.5	.0	.0	.0		4.3	6.2	4.4	3.9	3.6	3.2	2.0	6.5	4.8	5.1
NE	1.2	4.7	1.0	.1	.0	.0		7.0	7.2	6.3	6.9	6.8	9.4	6.7	9.1	5.8	4.8
E	1.3	7.0	6.8	1.2	.0	.0		16.4	11.3	15.6	13.8	18.4	18.8	21.7	15.6	15.7	13.3
SE	1.3	10.4	13.3	3.0	.0	.0		28.0	13.0	40.6	26.5	26.8	27.3	27.3	26.0	30.0	25.5
S	1.3	8.8	6.9	1.1	.0	.0		18.0	10.7	14.7	23.5	21.6	11.0	19.7	13.6	15.6	21.8
SW	2.1	6.8	2.5	.4	.0	.0		11.8	8.2	9.1	14.1	11.5	9.4	6.3	14.6	10.9	15.0
W	1.1	3.1	.6	.1	.0	.0		5.0	7.1	.9	4.1	4.0	5.8	5.0	5.5	6.2	6.5
NW	1.1	2.6	1.1	.0	.0	.0		4.8	7.6	5.9	5.0	4.0	7.8	6.0	4.5	2.9	4.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8							4.8	.0	2.5	2.2	3.4	7.1	5.3	4.5	8.2	4.1
TOT OBS	190	568	404	73	0	0	1235		9.8	80	181	237	154	75	154	207	147
TOT PCT	15.4	46.0	32.7	5.9	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.7	1.5	.1	.0	.0		4.3	6.2	4.0	3.5	5.0	4.9
NE	4.0	2.4	.5	*	.0		7.0	7.2	6.7	7.8	8.3	5.4
E	4.5	8.2	3.6	.1	.0		16.4	11.3	14.4	18.5	17.6	14.7
SE	5.3	13.4	8.6	.7	.0		28.0	13.0	30.8	27.0	26.4	28.1
S	5.1	9.7	3.0	.2	.0		18.0	10.7	20.8	17.5	15.6	18.1
SW	5.9	4.6	1.2	.1	.0		11.8	8.2	12.5	10.7	11.9	12.6
W	2.8	1.8	.3	.0	.0		5.0	7.1	3.2	4.7	5.3	6.3
NW	2.4	2.1	.3	.0	.0		4.8	7.6	5.3	5.5	5.0	3.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.8						4.8	.0	2.3	4.9	4.8	6.5
TOT OBS	463	541	217	14	0	1235		9.8	261	391	229	354
TOT PCT	37.5	43.8	17.6	1.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1881-1970

AREA 0004 ROCKHAMPTON
23.2S 152.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.3	8.8	49.0	34.5	5.4	.0	.0	10.3	100.0	261
06&09	4.9	11.5	45.8	30.4	7.4	.0	.0	9.8	100.0	391
12&15	4.8	10.5	45.4	32.8	6.6	.0	.0	10.1	100.0	229
18&21	6.5	11.0	44.4	33.9	4.2	.0	.0	9.4	100.0	354
TOT	59	131	568	404	73	0	0	9.8		1235
PCT	4.8	10.6	46.0	32.7	5.9	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	.0	1.3	.6		4.0
NE	.5	.8	1.8	2.0		6.0
E	4.6	2.9	8.1	3.2		4.7
SE	9.3	11.3	12.1	2.5		4.1
S	5.2	4.6	6.2	1.4		4.1
SW	4.4	2.8	1.2	.4		2.6
W	1.6	.7	.4	.0		2.5
NW	3.4	.7	.5	.1		1.8
VAR	.0	.0	.0	.0		.0
CALM	2.6	.0	1.1	.4		2.6
TOT OBS	88	64	87	28	267	3.9
TOT PCT	33.0	24.0	32.6	10.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.3	1.2	.0	.0	.0	.0	.0	1.8	
NE	.0	.0	.0	1.1	1.5	.4	.0	.0	.0	.0	2.1	
E	.0	.0	.0	1.1	3.9	1.4	1.1	.0	.0	.0	11.1	
SE	.0	.0	.0	2.2	3.2	1.7	1.1	.0	.0	.1	26.9	
S	.0	.0	.0	.7	1.7	.3	.0	.0	.0	.3	14.4	
SW	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	8.1	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	
NW	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	4.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.4	.4	.0	.7	.0	.0	.0	2.6	
TOT OBS	0	0	0	16	32	10	10	0	0	1	198	267
TOT PCT	.0	.0	.0	6.0	12.0	3.7	3.7	.0	.0	.4	74.2	100.0

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 >50YD	= OR >0
= OR >6500	.4	.4	.4	.4	.4	.4	.4	.4
= OR >5000	.4	.4	.4	.4	.4	.4	.4	.4
= OR >3500	3.7	4.1	4.1	4.1	4.1	4.1	4.1	4.1
= OR >2000	6.7	7.8	7.8	7.8	7.8	7.8	7.8	7.8
= OR >1000	16.4	19.8	19.8	19.8	19.8	19.8	19.8	19.8
= OR >600	20.9	25.7	25.7	25.7	25.7	25.7	25.7	25.7
= OR >300	20.9	25.7	25.7	25.7	25.7	25.7	25.7	25.7
= OR >150	20.9	25.7	25.7	25.7	25.7	25.7	25.7	25.7
= OR > 0	20.9	25.7	25.7	25.7	25.7	25.7	25.7	25.7
TOTAL	56	69	69	69	69	69	69	69

TOTAL NUMBER OF OBS: 268

PCT FREQ NH <5/8: 74.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.2	17.5	18.8	18.5	9.2	9.2	5.5	7.2	4.8	.0	292

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1881-1970

AREA 0004 ROCKHAMPTON
23.2S 152.0E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.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	
	NO PCP	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	.3	
	TOT %	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	.3	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.2	.5	1.2	3.9	1.2	.6	.0	.1	.0	.1	7.7	
	NO PCP	3.0	3.7	6.0	13.3	11.0	7.9	3.1	3.6	.0	3.0	54.8	
	TOT %	3.2	4.2	7.2	17.3	12.2	8.6	3.1	3.6	.0	3.1	62.5	
10+	PCP	.0	.2	.1	.2	.1	.0	.0	.0	.0	.0	.7	
	NO PCP	1.9	2.0	6.2	11.3	6.8	3.7	1.2	1.9	.0	1.6	36.5	
	TOT %	1.9	2.2	6.3	11.5	6.9	3.7	1.2	1.9	.0	1.6	37.1	
	TOT OBS												894
	TOT PCT	5.1	6.4	13.6	28.7	19.2	12.2	4.3	5.6	.0	4.8	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.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	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	0-3	.9	.9	.6	.5	.5	2.0	.9	.6	.0	2.8	9.9	
	4-10	1.3	2.2	3.4	6.4	4.9	4.0	1.6	1.9	.0		25.7	
	11-21	.6	.6	2.8	7.2	5.2	1.5	.2	.7	.0		18.8	
	22+	.0	.0	.3	1.4	.6	.1	.0	.0	.0		2.4	
	TOT %	2.8	3.8	7.1	15.5	11.2	7.6	2.8	3.2	.0	2.8	56.8	
10+	0-3	.4	.2	.6	.4	.4	.3	.1	.4	.0	2.1	5.1	
	4-10	1.6	2.7	3.1	4.2	4.2	2.7	1.0	.9	.0		20.4	
	11-21	.0	.3	3.1	7.0	2.5	1.1	.3	.6	.0		14.9	
	22+	.0	.0	.3	1.3	.5	.3	.0	.0	.0		2.5	
	TOT %	2.0	3.2	7.2	12.9	7.6	4.5	1.5	1.9	.0	2.1	42.9	
	TOT OBS												1004
	TOT PCT	4.9	7.0	14.4	28.4	18.9	12.1	4.3	5.2	.0	5.0	100.0	

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1881-1970

AREA 0004 ROCKHAMPTON
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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
00&03	.0	.0	.0	3.9	9.1	3.9	1.3	.0	.0	.0	18.2	81.8	77
06&09	.0	.0	.0	4.8	10.8	3.6	2.4	.0	.0	1.2	22.9	77.1	83
12&15	.0	.0	.0	7.2	13.0	2.9	7.2	.0	.0	.0	30.4	69.6	69
18&21	.0	.0	.0	7.4	13.0	3.7	3.7	.0	.0	.0	27.8	72.2	54
TOT	0	0	0	16	32	10	10	0	0	1	69	214	283
PCT	.0	.0	.0	5.7	11.3	3.5	3.5	.0	.0	.4	24.4	75.6	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
00&03	.0	.0	.0	.0	49.0	51.0	206
06&09	.0	.0	.0	.0	59.0	41.0	339
12&15	.0	.5	.0	.0	53.1	46.4	196
18&21	.0	.7	.0	.0	65.3	34.0	297
TOT	0	3	0	0	599	436	1038
PCT	.0	.3	.0	.0	57.7	42.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	4.1	14.9	81.1	74
06&09	.0	.0	5.3	19.7	75.0	76
12&15	.0	.0	7.5	23.9	68.7	67
18&21	.0	.0	7.8	21.6	70.6	51
TOT	0	0	16	53	199	268
PCT	.0	.0	6.0	19.8	74.3	100.0

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
85/89	.0	.0	.1	.0	.0	.0	.0	.0	1	.1
80/84	.0	.0	.0	.1	.5	.5	.4	.0	12	1.5
75/79	.0	.1	.1	2.6	4.6	9.3	6.2	1.4	189	24.3
70/74	.0	.0	1.8	6.2	14.4	13.6	12.0	6.6	424	54.5
65/69	.0	.0	.5	2.1	3.7	4.4	3.7	1.8	126	16.2
60/64	.0	.0	.1	.5	1.0	.6	.4	.1	22	2.8
55/59	.0	.0	.0	.0	.0	.0	.4	.1	4	.5
TOTAL	0	1	21	89	189	221	179	78	778	100.0
PCT	.0	.1	2.7	11.4	24.3	28.4	23.0	10.0		

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
.2	.0	.1	.2	.1	.0	.2	.5	.0	.3
1.8	2.5	4.3	6.3	3.1	1.9	1.1	2.4	.0	.9
2.8	3.3	7.0	18.7	10.3	5.6	1.5	2.9	.0	2.3
.4	.1	.8	3.2	5.5	3.1	1.2	.4	.0	1.4
.0	.0	.1	.5	.7	1.2	.3	.0	.0	.1
.0	.0	.0	.0	.1	.3	.0	.0	.0	.1
5.2	5.9	12.2	29.0	19.9	12.1	4.4	6.2	.0	5.1

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	82	79	73	67	64	60	73.3	259
06&09	84	80	78	73	66	63	61	72.7	400
12&15	78	77	76	72	67	62	60	71.8	233
18&21	80	79	76	72	65	59	57	71.1	361
TOT	85	80	78	73	66	61	57	72.2	1253

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	13.7	31.1	27.3	21.1	6.8	72	161
06&09	.0	18.6	23.5	29.9	21.2	6.8	72	264
12&15	.0	13.5	23.1	30.1	22.4	10.9	74	156
18&21	.0	11.8	20.6	28.1	25.0	14.5	75	228
TOT	0	119	195	234	182	79	73	809

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1881-1970

AREA 0004 ROCKHAMPTON
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	WO FOG
7/8	.0	.0	.0	.0	.1	.2	.1	.0	4	.0	.5
6	.0	.0	.0	.0	.2	.0	.0	.1	3	.0	.4
5	.0	.0	.0	.0	.7	.7	.0	.0	12	.0	1.5
4	.0	.0	.1	.2	1.1	.6	.1	.0	18	.0	2.2
3	.0	.2	.0	.1	1.5	1.6	.6	.0	33	.0	4.0
2	.0	.0	.0	.4	2.2	1.5	.0	.0	33	.0	4.0
1	.0	.0	.1	1.9	3.9	2.3	.0	.0	68	.0	8.2
0	.0	.1	.2	3.7	8.0	1.5	.0	.0	112	.0	13.5
-1	.0	.0	.2	4.0	8.5	.7	.0	.0	111	.0	13.4
-2	.0	.0	.6	6.3	6.5	.2	.0	.0	113	.1	13.5
-3	.0	.0	1.0	5.9	5.6	.0	.0	.0	103	.0	12.5
-4	.0	.1	1.9	5.0	2.5	.0	.0	.0	79	.0	9.6
-5	.0	.0	2.4	3.3	1.2	.0	.0	.0	57	.1	6.8
-6	.0	.4	1.5	1.0	.4	.0	.0	.0	26	.0	3.1
-7/-8	.0	.8	1.5	1.5	.1	.0	.0	.0	32	.0	3.9
-9/-10	.4	.1	1.0	.1	.0	.0	.0	.0	13	.0	1.6
-11/-13	.5	.5	.1	.0	.0	.0	.0	.0	9	.0	1.1
-14/-16	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	7		89		331		7			2	825
		19		276		77		1	827		
PCT	.8	2.3	10.8	33.4	42.4	9.3	.8	.1	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3
1-2	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	1.2	.0	.0	.0	.0	1.2
5-6	.0	.4	.0	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.3	2.8	.0	.0	.0	.0	3.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	1.5	.4	.0	.0	.0	2.0
3-4	.0	.2	.5	.0	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	2.6	1.4	.0	.0	.0	4.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	2.2	2.1	.0	.0	.0	4.2
3-4	.4	3.2	4.1	.0	.0	.0	7.7
5-6	.0	.9	3.9	.3	.0	.0	5.1
7	.0	.0	2.0	.8	.0	.0	2.7
8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.3	.0	.0	.3
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
TOT PCT	.4	7.3	12.5	1.4	.0	.0	21.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	6.6	2.8	.0	.0	.0	9.5
3-4	.0	3.4	8.7	.0	.0	.0	12.1
5-6	.0	1.3	7.4	.5	.0	.0	9.2
7	.0	.4	2.2	1.5	.0	.0	4.1
8-9	.0	.0	.9	1.4	.0	.0	2.3
10-11	.0	.0	.0	.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
TOT PCT	.0	12.0	22.0	4.0	.0	.0	37.9

PERIOD: (OVER-ALL) 1963-1970

MAY

TABLE 18 (CONT)

AREA 0004 ROCKHAMPTON
23.2S 152.0E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	4.8	1.6	.0	.0	.0	6.4	.4	1.5	.4	.0	.0	.0	2.4
3-4	.0	3.3	4.8	.0	.0	.0	8.0	.0	.1	1.0	.0	.0	.0	1.1
5-6	.0	.0	1.3	.4	.0	.0	1.7	.0	.0	.0	.4	.0	.0	.4
7	.0	.0	.7	.8	.0	.0	1.4	.0	.0	.0	.4	.0	.0	.4
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.4	.0	.0	.0	.4
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
TOT PCT	.0	8.8	8.4	1.5	.0	.0	18.7	.4	3.0	1.8	.9	.0	.0	6.2

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
1-2	.0	.4	.4	.0	.0	.0	.9	.0	.4	.4	.0	.0	.0	.9	
3-4	.0	1.1	.0	.0	.0	.0	1.1	.0	.2	1.7	.0	.0	.0	2.0	
5-6	.0	.0	.4	.0	.0	.0	.4	.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	
TOT PCT	.0	1.5	.9	.0	.0	.0	2.4	.1	.7	2.2	.0	.0	.0	2.9	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.9	4.3	.0	.0	.0	.0	8.2	
1-2	.4	18.6	8.2	.0	.0	.0	27.3	
3-4	.4	12.6	20.8	.0	.0	.0	33.8	
5-6	.0	2.6	13.0	1.7	.0	.0	17.3	
7	.0	.4	5.2	3.5	.0	.0	9.1	
8-9	.0	.0	1.7	1.7	.0	.0	3.5	
10-11	.0	.0	.0	.9	.0	.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	
TOT PCT	4.8	38.5	48.9	7.8	.0	.0	100.0	231

PERIOD: (OVER-ALL) 1949-1970

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	.0	8.6	14.6	4.1	2.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	3
6-7	.0	.7	9.7	14.2	7.5	3.4	1.1	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	5
8-9	.0	1.1	1.5	4.5	4.9	3.7	2.2	.4	1.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	7
10-11	.0	.7	.0	1.1	1.1	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	6
12-13	.0	.0	1.1	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	3.4	.0	.0	.7	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	2
TOTAL	9	30	72	66	46	24	10	1	7	2	0	0	0	0	0	0	0	0	0	267	5
PCT	3.4	11.2	27.0	24.7	17.2	9.0	3.7	.4	2.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1921-1971
(OVER-ALL) 1863-1971

AREA 0004 ROCKHAMPTON
23.25 152.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.1	.0	5.4	.0	.0	.0	.0	9.5	.0	.0	.0	.0	.0		.0	90.5
NE	1.2	22.0	.0	.0	.0	.0	.0	23.2	4.9	.0	.0	.0	.0		.0	72.0
E	8.5	17.6	.9	.0	.0	.0	.0	27.0	2.3	.6	.0	.0	.0		.0	70.2
SE	3.9	13.7	.1	.0	.0	.0	.0	17.6	.9	.3	.0	.0	.0		.0	81.3
S	4.4	3.9	1.0	.0	.0	.0	.0	9.3	2.1	.7	.0	.0	.7		.0	87.4
SW	.3	.0	1.1	.0	.0	.0	.0	1.4	.0	2.2	.0	.0	.5		.0	95.9
W	.0	1.0	.0	.0	.0	.0	.0	1.0	.0	4.2	.0	.0	4.2		.0	90.6
NW	.0	6.1	.0	.0	.0	.0	.0	6.1	.0	.0	.	.0	.0		.0	93.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.	.0	.0		.0	.0
CALM	11.8	.0	.0	.0	.0	.0	.0	11.8	.0	.0	.0	.0	.0		.0	88.2
TOT PCT	3.8	8.8	.6	.0	.0	.0	.0	13.2	1.2	.8	.0	.0	.5		.0	84.5
TOT OBS:	843															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.0	7.4	.0	.0	.0	.0	.0	11.4	.0	.0	.0	.0	1.1		.0	87.4
06&09	2.9	8.0	1.1	.0	.0	.0	.0	12.0	2.2	.0	.0	.0	.7		.0	85.1
12&15	6.2	8.7	.6	.0	.0	.0	.0	15.5	1.9	2.5	.0	.0	.0		.0	80.7
18&21	3.6	10.5	.4	.0	.0	.0	.0	14.5	.4	1.2	.0	.0	.0		.0	83.9
TOT PCT	4.0	8.7	.6	.0	.0	.0	.0	13.3	1.2	.8	.0	.0	.5		.0	84.4
TOT OBS:	859															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	.8	.5	.1	.0	.0		2.0	8.1	3.6	1.3	2.7	3.0	1.1	1.9	1.8	.4
NE	.6	2.2	.5	.0	.0	.0		3.3	7.0	.6	4.3	3.2	3.0	2.2	3.7	2.9	5.2
E	.9	5.0	4.4	1.1	.0	.0		11.5	11.4	11.7	9.2	11.7	13.0	13.1	13.0	11.7	9.3
SE	1.4	12.6	19.1	4.2	.3	.0		37.7	13.4	37.7	28.9	38.6	42.2	45.1	40.0	38.0	34.8
S	1.4	9.1	10.3	2.1	.2	.0		23.1	12.4	28.9	29.9	25.0	16.7	23.5	17.8	19.3	25.7
SW	.7	4.5	5.4	.3	.1	.0		11.1	11.8	13.6	16.9	8.2	8.9	3.4	10.7	12.1	12.4
W	.8	2.5	1.3	.4	*	.0		5.0	9.9	1.3	5.4	4.9	6.3	6.0	3.3	4.3	7.8
NW	.9	2.2	.8	.3	.0	.0		4.1	8.4	1.3	2.0	4.3	2.6	4.1	6.7	6.8	3.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0	1.3	2.0	1.4	4.4	1.5	3.0	3.1	1.5
TOT OBS	107	434	471	93	8	0	1113		11.8	77	152	220	135	67	135	192	135
TOT PCT	9.6	39.0	42.3	8.4	.7	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.2	.5	.3	.0	.0		2.0	8.1	2.1	2.8	1.6	1.2
NE	1.7	1.6	.0	.0	.0		3.3	7.0	3.1	3.1	3.2	3.8
E	2.8	6.2	2.2	.2	.0		11.5	11.4	10.0	12.2	13.0	10.7
SE	5.1	20.4	11.4	.9	.0		37.7	13.4	31.9	40.0	41.7	36.7
S	4.1	13.3	5.2	.4	.0		23.1	12.4	29.6	21.8	19.7	21.9
SW	2.2	6.2	2.5	.2	.0		11.1	11.8	15.8	8.5	8.3	12.2
W	2.1	1.8	1.1	*	.0		5.0	9.9	4.0	5.4	4.2	5.7
NW	2.2	1.5	.2	.2	.0		4.1	8.4	1.7	3.7	5.8	5.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.3						2.3	.0	1.7	2.5	2.5	2.4
TOT OBS	265	573	254	21	0	1113		11.8	229	355	202	327
TOT PCT	23.8	51.5	22.8	1.9	.0		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1921-1971
(OVER-ALL) 1863-1971

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.7	8.3	34.5	44.1	10.0	1.3	.0	12.5	100.0	229
06&09	2.5	7.3	41.1	42.8	5.6	.6	.0	11.1	100.0	355
12&15	2.5	6.9	40.1	38.1	11.9	.5	.0	11.8	100.0	202
18&21	2.4	6.7	39.1	43.1	8.0	.6	.0	11.9	100.0	327
TOT	26	81	434	471	93	8	0	11.8		1113
PCT	2.3	7.3	39.0	42.3	8.4	.7	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	.3	.0	.0		1.6
NE	.1	.6	.8	.0		5.1
E	2.4	2.8	4.0	4.5		5.3
SE	7.8	12.2	10.0	6.7		4.4
S	8.7	6.1	9.5	1.9		4.0
SW	5.9	.9	3.7	1.1		3.3
W	3.2	.4	.0	1.4		2.9
NW	2.4	.4	.0	.4		2.1
VAR	.0	.0	.0	.0		.0
CALM	.4	.0	.4	.0		3.5
TOT OBS	83	61	73	41	258	4.1
TOT PCT	32.2	23.6	28.3	15.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
NE	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.7	
E	.0	.0	1.0	.3	2.8	.8	.4	.0	.3	.3	7.8	
SE	.0	.4	.7	3.3	4.7	1.2	.0	.4	.1	.1	25.9	
S	.0	.4	1.0	2.2	4.7	.4	.4	.0	.0	.0	17.2	
SW	.4	.0	.2	1.2	.6	.5	.0	.0	.0	.4	8.3	
W	.0	.0	.3	.4	.0	.7	.0	.0	.0	.0	3.6	
NW	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
TOT OBS	2	2	8	20	33	10	2	1	1	2	177	258
TOT PCT	.8	.8	3.1	7.8	12.8	3.9	.8	.4	.4	.8	68.6	100.0

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 >50YD	= OR >0
= OR >6500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
= OR >5000	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >3500	1.9	2.3	2.3	2.3	2.3	2.3	2.3	2.3
= OR >2000	5.8	6.2	6.2	6.2	6.2	6.2	6.2	6.2
= OR >1000	17.1	18.3	18.7	18.7	18.7	18.7	18.7	18.7
= OR >600	21.8	26.1	26.5	26.5	26.5	26.5	26.5	26.5
= OR >300	22.6	27.6	28.4	29.6	29.6	29.6	29.6	29.6
= OR >150	22.6	28.0	29.2	30.4	30.4	30.4	30.4	30.4
= OR > 0	22.6	28.4	29.6	31.1	31.1	31.1	31.1	31.1
TOTAL	58	73	76	80	80	80	80	80

TOTAL NUMBER OF OBS: 257

PCT FREQ NH <5/8: 68.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
9.1	18.1	13.2	15.0	11.8	10.8	6.6	7.3	7.7	.3	287

PERIOD: (PRIMARY) 1921-1971
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.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	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.3	.1	.0	.0	.0	.1	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.1	.1	.2	.0	.0	.0	.4	
	TOT %	.0	.0	.3	.1	.1	.1	.2	.1	.0	.0	.8	
2<5	PCP	.0	.0	.0	.4	.1	*	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.4	.2	*	.0	.0	.0	.0	.6	
5<10	PCP	.1	.5	2.3	5.7	1.8	.1	.1	.2	.0	.2	11.0	
	NO PCP	1.4	1.4	3.6	18.4	12.7	7.1	3.5	3.0	.0	1.4	52.6	
	TOT %	1.5	2.0	5.8	24.1	14.5	7.2	3.6	3.2	.0	1.7	63.6	
10+	PCP	.1	*	.2	.5	.4	.0	.0	.0	.0	.0	1.2	
	NO PCP	.6	.4	4.1	12.3	9.0	3.6	1.9	1.5	.0	.4	33.8	
	TOT %	.7	.5	4.3	12.8	9.4	3.6	1.9	1.5	.0	.4	35.0	
	TOT OBS												843
	TOT PCT	2.2	2.4	10.4	37.3	24.2	10.9	5.7	4.8	.0	2.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.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	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.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	
	4-10	.0	.0	.0	.0	.0	.0	.1	.0	.0		.1	
	11-21	.0	.0	.0	.1	.1	.1	.1	.0	.0		.3	
	22+	.0	.0	.3	.1	.0	.0	.0	.1	.0		.4	
	TOT %	.0	.0	.3	.2	.1	.1	.2	.1	.0	.0	.9	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.3	.2	*	.0	.0	.0		.6	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.0	.0	.0	.4	.2	*	.0	.0	.0	.0	.7	
5<10	0-3	.6	.2	.8	.8	.7	.5	.5	.9	.0	1.6	6.5	
	4-10	.6	1.6	2.4	6.1	4.2	2.9	1.9	1.6	.0		21.2	
	11-21	.3	.2	1.6	12.5	7.6	3.3	.8	.3	.0		26.7	
	22+	.0	.0	.7	3.2	1.1	.1	.1	.1	.0		5.3	
	TOT %	1.4	2.0	5.5	22.6	13.6	6.7	3.3	3.0	.0	1.6	59.7	
10+	0-3	.1	.1	.2	.5	.6	.3	.1	.0	.0	.8	2.5	
	4-10	.4	.5	1.7	4.8	4.7	2.3	.7	.7	.0		15.7	
	11-21	.2	.2	2.2	7.5	3.5	2.0	.7	.6	.0		16.8	
	22+	.1	.0	.2	1.2	1.5	.2	.3	.1	.0		3.7	
	TOT %	.8	.7	4.3	14.0	10.3	4.8	1.7	1.4	.0	.8	38.8	
	TOT OBS												903
	TOT PCT	2.2	2.7	10.1	37.2	24.1	11.6	5.3	4.5	.0	2.3	100.0	

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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
00&03	.0	.0	2.6	7.9	15.8	1.3	.0	.0	.0	.0	27.6	72.4	76
06&09	1.2	.0	2.5	6.2	14.8	6.2	2.5	1.2	1.2	.0	35.8	64.2	81
12&15	.0	1.6	4.8	9.7	4.8	3.2	.0	.0	.0	1.6	25.8	74.2	62
18&21	1.8	1.8	1.8	5.5	10.9	3.6	.0	.0	.0	1.8	27.3	72.7	55
TOT	2	2	8	20	33	10	2	1	1	2	81	193	274
PCT	.7	.7	2.9	7.3	12.0	3.6	.7	.4	.4	.7	29.6	70.4	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
00&03	.0	.0	1.1	1.1	46.0	51.9	187
06&09	.0	.0	1.3	.7	61.3	36.7	297
12&15	.0	.0	.6	.6	57.9	40.9	171
18&21	.0	.0	.4	.4	70.8	28.4	264
TOT	0	0	8	6	554	351	919
PCT	.0	.0	.9	.7	60.3	38.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	2.7	12.3	16.4	71.2	73
06&09	1.3	3.9	10.4	26.0	63.6	77
12&15	.0	7.1	19.6	10.7	69.6	56
18&21	2.0	5.9	11.8	17.6	70.6	51
TOT	2	12	34	47	176	257
PCT	.8	4.7	13.2	18.3	68.5	100.0

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
80/84	.0	.0	.0	.1	.1	.0	.0	.0	2	.3
75/79	.0	.0	.1	.1	1.1	.8	.4	1.0	26	3.7
70/74	.0	.0	1.1	4.8	10.8	12.0	8.1	7.9	316	44.8
65/69	.0	.3	1.7	4.2	8.1	11.5	12.9	5.9	315	44.6
60/64	.0	.0	.1	.6	1.3	2.0	2.1	.3	45	6.4
55/59	.0	.0	.0	.0	.0	.1	.0	.1	2	.3
TOTAL	0	2	22	70	151	187	166	108	706	100.0
PCT	.0	.3	3.1	9.9	21.4	26.5	23.5	15.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.1	.1	.0	.0	.0	.0	.0	.0	.0
.3	1.0	.7	.9	.7	.0	.0	.1	.0	.0
1.3	1.5	6.7	18.8	8.4	3.2	1.5	2.4	.0	1.0
.1	.2	3.6	16.6	12.7	6.2	3.0	1.4	.0	.8
.0	.0	.2	1.8	1.7	1.4	.8	.1	.0	.3
.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
1.8	2.8	11.3	38.1	23.6	10.9	5.2	4.0	.0	2.3

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	81	77	75	70	63	61	56	70.0	225
06&09	79	78	75	70	65	61	60	70.0	355
12&15	81	73	72	69	64	60	60	68.7	202
18&21	79	75	73	68	62	59	57	68.2	331
TOT	81	77	74	69	63	60	56	69.2	1113

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	13.4	26.8	29.6	15.5	14.8	73	142
06&09	.0	15.8	21.9	28.5	21.1	12.7	73	228
12&15	.0	11.8	21.3	27.9	22.8	16.2	75	136
18&21	.0	11.5	17.2	20.1	33.0	18.2	77	209
TOT	0	95	153	187	170	110	75	715

PERIOD: (PRIMARY) 1921-1971
(OVER-ALL) 1863-1971

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) 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	WO FOG
9/10	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
7/8	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
5	.0	.0	.0	.0	.4	.3	.3	.0	7	.0	.9
4	.0	.0	.0	.0	.1	.8	.3	.0	9	.0	1.2
3	.0	.0	.0	.1	1.2	1.1	.3	.0	20	.0	2.7
2	.0	.0	.0	.3	1.7	1.7	.1	.1	30	.0	4.0
1	.0	.0	.1	.7	3.1	1.9	.0	.0	43	.0	5.8
0	.0	.0	.0	1.7	6.4	2.5	.0	.0	80	.0	10.7
-1	.0	.0	.1	2.9	9.0	1.7	.0	.0	103	.0	13.8
-2	.0	.1	.1	4.4	9.0	.8	.0	.0	108	.0	14.5
-3	.0	.0	.4	4.2	6.2	.1	.0	.0	81	.0	10.9
-4	.0	.0	1.2	5.1	4.7	.1	.0	.0	83	.0	11.1
-5	.0	.0	.4	4.6	2.9	.1	.0	.0	60	.0	8.0
-6	.0	.1	.8	2.4	1.6	.0	.0	.0	37	.0	5.0
-7/-8	.0	.1	1.5	4.7	.7	.0	.0	.0	52	.0	7.0
-9/-10	.0	.0	1.9	.5	.1	.0	.0	.0	19	.0	2.5
-11/-13	.1	.7	.8	.0	.0	.0	.0	.0	12	.0	1.6
TOTAL	1		55		352		8			0	746
		8		236		84		2	746		
PCT	.1	1.1	7.4	31.6	47.2	11.3	1.1	.3	100.0		100.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.3	.0	.0	.0	.0	.0	.3
3-4	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.3	.4	.3	.0	.0	.0	1.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.1	.4	.0	.0	.0	.0	.5
3-4	.0	.9	.4	.0	.0	.0	1.3
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.1	1.3	.6	.0	.0	.0	2.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.0	1.7	.0	.0	.0	.0	1.7
3-4	.0	1.6	4.6	.0	.0	.0	6.2
5-6	.0	1.2	3.4	.8	.0	.0	5.4
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.6	.0	.0	.6
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
TOT PCT	.0	5.3	8.5	1.8	.0	.0	15.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.9	5.4	5.6	.0	.0	.0	11.8
3-4	.0	2.6	3.6	.1	.0	.0	6.3
5-6	.0	.6	9.9	1.2	.0	.0	11.7
7	.0	.0	1.3	1.3	.0	.0	2.6
8-9	.0	.0	.4	.1	.0	.0	.5
10-11	.0	.0	.0	1.1	.5	.0	1.6
12	.0	.0	.0	.0	.4	.0	.4
13-16	.0	.0	.0	1.1	.0	.0	1.1
17-19	.0	.0	.4	.0	.4	.0	.9
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
TOT PCT	.9	9.1	21.2	4.8	1.4	.0	37.4

PERIOD: (OVER-ALL) 1963-1971

JUNE

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
1-2	.9	3.6	1.7	.0	.0	.0	6.2	.4	3.2	.0	.0	.0	.0	3.6
3-4	.4	3.5	1.7	.8	.0	.0	6.4	.0	.4	3.4	.0	.0	.0	3.9
5-6	.0	.8	3.1	1.5	.0	.0	5.4	.0	.0	2.4	.0	.0	.0	2.4
7	.0	.0	.4	.8	.0	.0	1.2	.0	.0	.0	.1	.4	.0	.5
8-9	.0	.0	.8	.3	.0	.0	1.1	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.4	1.1	.3	.0	1.8	.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	.4	.4	.0	.9	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.4	.0	.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	.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
TOT PCT	1.3	8.8	8.2	5.3	.8	.0	24.2	.4	3.6	6.0	.1	.4	.0	10.6

	W							NW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.5	.8	.0	.0	.0	2.3	.0	.4	.1	.0	.0	.0	.5	
3-4	.0	.0	.8	.0	.0	.0	.8	.0	.9	.9	.4	.0	.0	2.1	
5-6	.0	.0	.0	.4	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4	
7	.0	.0	.4	.3	.0	.0	.8	.0	.0	.0	.1	.0	.0	.1	
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.4	.0	.0	.4	
10-11	.0	.0	.0	.4	.0	.0	.4	.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	
TOT PCT	.0	1.5	2.3	1.2	.0	.0	4.9	.0	1.3	1.4	1.0	.0	.0	3.6	99.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.4	2.1	.0	.0	.0	.0	2.6	
1-2	2.6	16.3	8.2	.0	.0	.0	27.0	
3-4	.4	10.3	15.5	1.3	.0	.0	27.5	
5-6	.0	2.6	19.7	3.9	.0	.0	26.2	
7	.0	.0	2.6	2.6	.4	.0	5.6	
8-9	.0	.0	1.7	.9	.0	.0	2.6	
10-11	.0	.0	.4	2.6	.9	.0	3.9	
12	.0	.0	.0	.4	.4	.0	.9	
13-16	.0	.0	.0	2.1	.4	.0	2.6	
17-19	.0	.0	.4	.4	.4	.0	1.3	
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	
								233
TOT PCT	3.4	31.3	48.5	14.2	2.6	.0	100.0	

PERIOD: (OVER-ALL) 1949-1971

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	8.8	13.0	5.3	3.8	1.1	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	89	4
6-7	.0	2.3	7.6	11.5	9.9	2.3	1.9	.4	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	97	6
8-9	.0	.0	2.3	3.4	3.4	3.4	2.3	.8	2.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	8
10-11	.0	.8	.0	1.9	.0	1.5	.0	1.1	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	8
12-13	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	2	15
>13	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
INDET	.4	.0	.4	.8	.4	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	6
TOTAL	2	31	61	60	46	22	20	6	10	3	1	0	0	0	0	0	0	0	0	262	6
PCT	.8	11.8	23.3	22.9	17.6	8.4	7.6	2.3	3.8	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1919-1969
(OVER-ALL) 1863-1969

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23.25 152.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.3	.0	.0	.0	.0	.0	.0	5.3	5.3	.0	.0	.0	.0	.0		89.5
NE	3.2	14.3	.0	.0	.0	.0	.0	17.5	4.0	.0	3.2	.0	.0	.0		75.4
E	4.2	6.1	.0	.0	.0	.0	.0	10.3	2.0	.0	.0	.0	.0	.0		87.7
SE	3.7	6.0	.0	.0	.0	.0	.0	9.7	1.1	.0	.5	.0	.0	.0		88.7
S	5.4	1.9	1.3	.0	.0	.0	.0	8.5	.6	.0	.0	.0	2.5	.0		88.3
SW	3.0	1.0	.0	.0	.0	.0	.0	3.9	.0	1.0	1.0	.0	.0	.0		94.1
W	3.2	4.3	.0	.0	.0	.0	.0	7.4	.0	.0	.0	.0	.0	.0		92.6
NW	3.6	2.4	.0	.0	.0	.0	.0	6.0	.0	.0	2.4	.0	.0	.0		91.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	6.1	6.1	3.0	.0	.0	.0	.0	15.2	.0	.0	.0	.0	.0	.0		84.8
TOT PCT	4.1	4.3	.4	.0	.0	.0	.0	8.8	1.0	.1	.6	.0	.6	.0		88.9
TOT OBS:	705															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.6	3.9	.0	.0	.0	.0	.0	6.5	.6	.0	.0	.0	.6		.0	92.3
06&09	4.7	3.4	.9	.0	.0	.0	.0	9.0	1.3	.0	.9	.0	.9		.0	88.0
12&15	5.8	5.0	.0	.0	.0	.0	.0	10.8	.7	.0	1.4	.0	.7		.0	86.3
18&21	2.8	4.7	.9	.0	.0	.0	.0	8.4	.9	.5	.9	.0	.0		.0	89.3
TOT PCT	3.9	4.2	.5	.0	.0	.0	.0	8.6	.9	.1	.8	.0	.5		.0	88.9
TOT OBS:	742															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	1.9	.6	.0	.0	.0		2.9	7.4	1.3	2.6	2.6	3.0	3.0	5.5	2.5	2.5
NE	1.0	3.7	1.1	*	.0	.0		5.8	7.4	5.6	6.3	3.2	5.9	3.0	8.3	6.0	8.7
E	1.4	7.6	3.6	.7	.2	.0		13.5	10.0	18.1	12.5	14.2	13.1	16.8	13.3	14.6	7.4
SE	1.8	11.8	10.4	2.0	.3	.0		26.3	11.6	25.3	30.9	28.8	25.4	28.0	18.8	24.0	27.7
S	1.6	9.1	9.5	1.3	.0	.0		21.5	11.8	27.3	20.6	25.4	16.5	22.0	16.1	19.2	25.6
SW	1.7	6.3	5.6	.6	.0	.0		13.6	10.8	14.8	14.0	12.2	14.8	6.7	14.2	15.0	14.7
W	1.0	3.7	1.6	.1	.0	.0		6.4	8.5	3.6	4.4	6.2	7.6	8.6	7.3	7.0	6.4
NW	1.5	3.0	1.0	.0	.0	.0		5.4	7.2	1.3	4.4	5.3	7.6	4.5	8.3	5.9	4.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.6							4.6	.0	2.6	4.4	2.1	5.9	7.5	8.3	5.6	2.5
TOT OBS	143	469	332	47	4	0	995		10.0	76	136	190	118	67	109	178	121
TOT PCT	14.4	47.1	33.4	4.7	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.5	1.4	.1	.0	.0		2.9	7.4	2.1	2.8	4.5	2.5
NE	2.9	2.7	.2	.0	.0		5.8	7.4	6.0	4.2	6.3	7.1
E	4.9	6.4	2.0	.2	.0		13.5	10.0	14.5	13.8	14.6	11.7
SE	6.4	13.9	5.3	.7	.0		26.3	11.6	28.9	27.5	22.3	25.5
S	5.2	10.1	6.0	.3	.0		21.5	11.8	23.0	22.0	18.3	21.8
SW	3.6	7.4	2.6	*	.0		13.6	10.8	14.3	13.2	11.4	14.9
W	2.6	3.2	.5	.1	.0		6.4	8.5	4.1	6.7	7.8	6.8
NW	2.3	2.9	.2	.0	.0		5.4	7.2	3.3	6.2	6.8	5.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.6						4.6	.0	3.8	3.6	8.0	4.3
TOT OBS	339	478	166	12	0	995		10.0	212	308	176	299
TOT PCT	34.1	48.0	16.7	1.2	.0		100.0		100.0	100.0	100.0	100.0

JULY

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.8	5.2	45.3	40.6	5.2	.0	.0	10.8	100.0	212
06&09	3.6	11.0	52.9	27.9	3.9	.6	.0	9.6	100.0	308
12&15	8.0	11.9	43.2	31.3	5.1	.6	.0	9.4	100.0	176
18&21	4.3	10.4	44.8	35.1	5.0	.3	.0	10.2	100.0	299
TOT	46	97	469	332	47	4	0	10.0		995
PCT	4.6	9.7	47.1	33.4	4.7	.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	.4	.4	.0		2.6
NE	.4	.4	.2	.8		5.3
E	3.9	2.6	6.8	3.4		4.8
SE	9.2	7.6	10.4	3.4		4.2
S	11.5	6.2	3.8	2.3		3.0
SW	7.4	2.0	1.7	.4		2.2
W	4.3	.7	1.4	.0		2.1
NW	3.2	.4	.4	.0		.9
VAR	.0	.0	.0	.0		.0
CALM	3.0	.0	.4	.0		1.3
TOT OBS	116	53	67	27	263	3.4
TOT PCT	44.1	20.2	25.5	10.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	1.5	
.0	.0	.4	.1	.0	.4	.0	.0	.0	.0	.9	
.0	.0	.7	1.3	3.3	1.0	.8	.0	.0	.0	9.6	
.0	.0	.1	3.2	3.7	1.3	.0	.0	.0	.0	22.2	
.0	.8	.0	1.0	1.7	.3	.0	.0	.4	.4	19.3	
.4	.0	.0	.1	.0	.4	.4	.0	.0	.0	10.3	
.0	.0	.0	.0	.4	.8	.0	.0	.0	.0	5.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	
1	2	3	15	24	12	3	0	1	1	201	263
.4	.8	1.1	5.7	9.1	4.6	1.1	.0	.4	.4	76.4	100.0

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 >50YD	= OR >0
= OR >6500	.7	.7	.7	.7	.7	.7	.7	.7
= OR >5000	.7	.7	.7	.7	.7	.7	.7	.7
= OR >3500	1.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9
= OR >2000	5.9	6.3	6.3	6.3	6.3	6.3	6.3	6.3
= OR >1000	12.6	14.5	14.9	14.9	15.2	15.2	15.2	15.2
= OR >600	16.0	19.0	20.1	20.4	20.8	20.8	20.8	20.8
= OR >300	16.4	20.1	21.2	21.6	21.9	21.9	21.9	21.9
= OR >150	16.4	20.1	21.6	21.9	22.3	22.3	22.7	22.7
= OR > 0	16.7	20.4	21.9	22.3	22.7	22.7	23.0	23.0
TOTAL	45	55	59	60	61	61	62	62

TOTAL NUMBER OF OBS: 269

PCT FREQ NH <5/8: 77.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
17.0	15.9	17.0	14.1	12.4	6.0	7.8	3.9	5.7	.4	283

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.2	.0	.0	.1	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.2	.0	.0	.3	.0	.0	.6	
1/2<1	PCP	.0	.0	.1	.6	.4	.0	.0	.0	.0	.0	1.1	
	NO PCP	.0	.1	.0	.1	.1	.1	.0	.0	.0	.0	.6	
	TOT %	.0	.1	.1	.7	.6	.1	.0	.0	.0	.0	1.7	
1<2	PCP	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.3	
2<5	PCP	.0	.0	.3	.3	.3	.0	.0	.0	.0	.0	.9	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.3	.3	.3	.0	.0	.0	.0	.0	.9	
5<10	PCP	.1	.8	.7	.9	.8	.3	.5	.2	.0	.7	5.0	
	NO PCP	1.6	2.5	5.6	11.7	11.3	8.7	3.5	3.5	.0	1.7	50.2	
	TOT %	1.8	3.3	6.3	12.6	12.1	8.9	4.0	3.8	.0	2.4	55.2	
10+	PCP	.0	.0	.0	.6	.2	.3	.0	.0	.0	.0	1.1	
	NO PCP	.9	1.0	5.8	11.6	9.1	5.0	2.6	1.8	.0	2.3	40.3	
	TOT %	.9	1.0	5.8	12.3	9.4	5.3	2.6	1.8	.0	2.3	41.4	
	TOT OBS												705
	TOT PCT	2.7	4.5	12.7	26.0	22.5	14.4	6.7	5.9	.0	4.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	4-10	.0	.0	.0	.0	.1	.0	.0	.1	.0		.3	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.1	.2	.0	.0	.3	.0	.0	.5	
1/2<1	0-3	.0	.1	.0	.1	.3	.0	.0	.0	.0	.0	.5	
	4-10	.0	.0	.0	.3	.0	.1	.0	.0	.0		.4	
	11-21	.0	.0	.0	.3	.1	.0	.0	.0	.0		.4	
	22+	.0	.0	.1	*	.1	.0	.0	.0	.0		.3	
	TOT %	.0	.1	.1	.7	.5	.1	.0	.0	.0	.0	1.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.3	.1	.0	.0	.0	.0		.4	
	22+	.0	.0	.2	.1	.0	.0	.0	.0	.0		.3	
	TOT %	.0	.0	.2	.5	.1	.0	.0	.0	.0	.0	.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.3	.1	.0	.0	.0	.0		.4	
	22+	.0	.0	.3	.0	.0	.0	.0	.0	.0		.3	
	TOT %	.0	.0	.3	.3	.3	.0	.0	.0	.0	.0	.8	
5<10	0-3	.0	.8	.7	1.1	1.2	1.0	.6	.6	.0	2.1	8.0	
	4-10	.9	1.5	3.1	5.8	5.1	3.7	2.1	1.8	.0		24.0	
	11-21	.6	.6	1.8	4.4	3.8	3.1	.9	.9	.0		16.2	
	22+	.0	*	.3	.8	.8	.1	.0	.0	.0		2.0	
	TOT %	1.6	2.9	5.9	12.0	10.9	7.9	3.6	3.3	.0	2.1	50.2	
10+	0-3	.1	.3	.4	.7	.2	.3	.5	.3	.0	2.3	5.0	
	4-10	.7	.9	3.8	6.0	4.4	2.5	1.4	1.4	.0		21.1	
	11-21	.1	.1	2.1	6.0	5.1	2.6	.6	.1	.0		16.7	
	22+	.0	.0	.1	1.9	.7	.7	.1	.0	.0		3.5	
	TOT %	.9	1.3	6.4	14.6	10.3	6.2	2.6	1.8	.0	2.3	46.3	
	TOT OBS												797
	TOT PCT	2.4	4.3	12.8	28.0	22.2	14.2	6.2	5.4	.0	4.4	100.0	

JULY

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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
00&03	.0	.0	1.4	2.7	10.8	5.4	1.4	.0	.0	.0	21.6	78.4	74
06&09	1.3	.0	2.6	10.3	7.7	3.8	1.3	.0	1.3	1.3	29.5	70.5	78
12&15	.0	1.6	.0	4.8	4.8	1.6	.0	.0	.0	.0	12.9	87.1	62
18&21	.0	1.6	.0	3.1	10.9	6.3	1.6	.0	.0	.0	23.4	76.6	64
TOT	1	2	3	15	24	12	3	0	1	1	62	216	278
PCT	.4	.7	1.1	5.4	8.6	4.3	1.1	.0	.4	.4	22.3	77.7	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
00&03	.0	.6	.6	1.2	40.1	57.6	172
06&09	.4	1.9	.8	.4	55.0	41.6	262
12&15	1.3	2.0	.7	1.3	45.7	49.0	151
18&21	.8	1.6	.8	.4	57.4	39.0	249
TOT	5	13	6	6	425	379	834
PCT	.6	1.6	.7	.7	51.0	45.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.4	5.6	16.9	77.5	71
06&09	1.3	3.9	14.3	15.6	70.1	77
12&15	.0	1.7	10.2	6.8	83.1	59
18&21	.0	3.2	6.5	17.7	75.8	62
TOT	1	7	25	39	205	269
PCT	.4	2.6	9.3	14.5	76.2	100.0

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
80/84	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
75/79	.0	.0	.2	.2	.3	.9	.0	.2	10	1.7
70/74	.0	.0	.7	3.5	5.6	6.9	3.0	4.0	136	23.6
65/69	.0	.2	2.8	7.6	11.3	13.4	8.9	8.0	300	52.1
60/64	.0	.0	.9	3.0	4.3	2.6	4.0	1.6	94	16.3
55/59	.0	.0	.0	.3	.5	1.0	1.4	.3	21	3.6
50/54	.0	.0	.0	.0	.0	.2	1.9	.3	14	2.4
TOTAL	0	1	26	84	127	144	110	84	576	100.0
PCT	.0	.2	4.5	14.6	22.0	25.0	19.1	14.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
75/79	.2	.3	.4	.2	.3	.0	.0	.2	.0	.2
70/74	1.3	1.9	5.9	6.6	3.0	.7	.7	2.2	.0	1.4
65/69	1.6	2.1	6.9	17.6	11.6	4.4	2.0	2.9	.0	2.8
60/64	.0	.0	.3	1.6	5.4	6.1	1.6	.7	.0	.5
55/59	.0	.0	.0	.0	1.2	2.2	.3	.0	.0	.0
50/54	.0	.0	.0	.0	.9	1.2	.3	.0	.0	.0
PCT	3.1	4.4	13.5	26.2	22.3	14.6	5.1	5.9	.0	4.9

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	78	75	73	68	60	58	58	67.7	213
06&09	79	75	73	68	61	56	51	67.6	320
12&15	76	74	72	67	61	53	51	66.9	178
18&21	80	72	71	67	56	51	51	65.6	307
TOT	80	75	72	67	60	53	51	66.9	1018

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	25.2	24.4	29.1	9.4	11.8	70	127
06&09	.0	17.4	20.7	25.5	16.8	19.6	74	184
12&15	.0	16.5	23.5	27.0	18.3	14.8	73	115
18&21	.0	16.6	19.4	21.1	30.3	12.6	75	175
TOT	0	112	130	152	117	90	73	601

PERIOD: (PRIMARY) 1919-1969
(OVER-ALL) 1963-1969

AREA 0004 ROCKHAMPTON
23.25 152.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) 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	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
9/10	.0	.0	.0	.0	.0	.5	.0	.2	4	.0	.6
7/8	.0	.0	.0	.0	.3	.2	.0	.2	4	.0	.6
6	.0	.0	.0	.0	.5	.2	.6	.2	9	.0	1.4
5	.0	.0	.0	.0	.0	.6	.0	.0	4	.0	.6
4	.0	.0	.0	.0	.8	.5	.3	.2	11	.0	1.7
3	.0	.0	.0	.0	.6	1.7	.9	.0	21	.2	3.1
2	.0	.0	.0	.2	1.1	1.6	.8	.0	23	.0	3.6
1	.0	.0	.0	.5	2.3	3.4	1.1	.0	47	.0	7.3
0	.0	.0	.3	.6	4.0	5.0	.3	.0	66	.2	10.1
-1	.0	.0	.0	.3	4.0	7.6	.6	.0	81	.2	12.5
-2	.0	.0	.2	.9	4.7	5.6	.3	.0	75	.0	11.7
-3	.0	.0	.2	1.6	5.3	3.0	.2	.0	65	.0	10.1
-4	.0	.0	.8	1.9	5.8	1.1	.2	.0	62	.3	9.3
-5	.0	.2	.6	1.9	4.0	1.1	.0	.0	50	.0	7.8
-6	.0	.0	.6	.6	2.5	.3	.0	.0	26	.0	4.0
-7/-8	.2	1.2	1.4	3.9	.9	.5	.0	.0	52	.2	7.9
-9/-10	.8	.6	.5	2.2	.5	.0	.0	.0	29	.0	4.5
-11/-13	.2	.2	.6	.8	.0	.0	.0	.0	11	.0	1.7
-14/-16	.0	.0	.2	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	7	14	34	98	240	210	35	4	642	6	636
PCT	1.1	2.2	5.3	15.3	37.4	32.7	5.5	.6	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.5	.5	.0	.0	.0	.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	1.4	.5	.0	.0	.0	1.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.6	.5	.0	.0	.0	1.0
5-6	.0	.5	.0	.0	.0	.0	.5
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	2.0	.9	.0	.0	.0	2.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.1	.5	.0	.0	.0	6.6
3-4	.0	3.0	2.6	.0	.0	.0	5.6
5-6	.0	1.4	3.1	.0	.0	.0	4.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.9	.0	.0	.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
TOT PCT	.0	10.5	7.1	.0	.0	.0	17.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	6.5	2.0	.0	.0	.0	8.4
3-4	.0	3.5	4.3	1.5	.0	.0	9.2
5-6	.0	.5	5.2	.6	.0	.0	6.2
7	.0	.0	1.3	2.0	.0	.0	3.2
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.5	.0	.0	.0	.5
13-16	.0	.0	.5	.1	.0	.0	.6
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
TOT PCT	.0	11.4	13.6	4.1	.0	.0	29.1

JULY

PERIOD: (OVER-ALL) 1963-1969

AREA 0004 ROCKHAMPTON
23.2S 152.2E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	.6	.0	.0	.0	.0	.6
1-2	.0	5.2	2.2	.0	.0	.0	7.4	.1	1.7	.5	.0	.0	.0	2.3
3-4	.0	2.6	5.9	.3	.0	.0	8.9	.0	2.3	2.9	.5	.0	.0	5.6
5-6	.0	.0	3.8	1.3	.0	.0	5.1	.0	.5	1.8	1.0	.0	.0	3.3
7	.0	.0	1.5	.3	.0	.0	1.8	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3	.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
TOT PCT	.0	8.5	13.4	2.8	.0	.0	24.7	.1	5.1	5.6	2.0	.0	.0	12.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.9	.9	.0	.0	.0	.0	1.8	.0	1.4	.0	.0	.0	.0	1.4	
1-2	.3	.8	.5	.0	.0	.0	1.6	.0	.9	.0	.0	.0	.0	.9	
3-4	.0	.5	1.4	.0	.0	.0	1.8	.0	.9	.0	.0	.0	.0	.9	
5-6	.0	.0	.3	.3	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.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	
TOT PCT	1.3	2.2	2.2	.3	.0	.0	6.0	.0	3.2	.5	.0	.0	.0	3.7	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.2	4.1	.0	.0	.0	.0	7.3	
1-2	.5	22.8	5.5	.0	.0	.0	28.8	
3-4	.0	13.7	17.8	2.3	.0	.0	33.8	
5-6	.0	2.7	14.2	3.2	.0	.0	20.1	
7	.0	.0	4.1	2.3	.0	.0	6.4	
8-9	.0	.5	.0	.0	.0	.0	.5	
10-11	.0	.0	.9	.9	.0	.0	1.8	
12	.0	.0	.5	.0	.0	.0	.5	
13-16	.0	.0	.5	.5	.0	.0	.9	
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	
TOT PCT	3.7	43.8	43.4	9.1	.0	.0	100.0	219

PERIOD: (OVER-ALL) 1949-1969

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	11.5	13.0	5.5	4.3	1.2	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	4
6-7	.0	1.6	8.3	11.9	7.1	5.5	2.0	.8	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	99	6
8-9	.0	.0	.8	4.0	4.3	.4	.8	2.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	33	8
10-11	.0	.0	.4	.8	.4	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
12-13	.0	.0	.4	.4	.8	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	7
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	1.2	.0	.4	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	3
TOTAL	12	33	59	59	43	21	9	9	7	0	0	1	0	0	0	0	0	0	0	253	5
PCT	4.7	13.0	23.3	23.3	17.0	8.3	3.6	3.6	2.8	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1863-1969

AREA 0004 ROCKHAMPTON
23.25 152.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	5.6	2.5	.0	.0	.0	.0	8.1	1.5	1.5	2.0	.0	.0	.0		86.9
NE	3.6	.4	2.7	.0	.0	.0	.0	6.7	1.8	.0	1.8	.0	.0	.0		89.8
E	1.7	2.6	.6	.0	.0	.0	.0	4.9	4.0	.0	.9	.0	.0	.0		90.2
SE	1.6	4.5	1.1	.0	.0	.0	.0	7.2	.7	.0	2.6	.0	1.0	.0		88.5
S	.7	1.4	1.0	.0	.0	.0	.0	3.1	.7	1.0	1.4	.0	.0	.0		93.8
SW	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	3.2	.0	.0	.0		94.8
W	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0		97.5
NW	5.0	2.5	.6	.0	.0	.0	.0	8.1	.6	3.1	.0	.0	.0	.0		88.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	5.3	.0	.0	.0	.0	.0	.0	5.3	.0	.0	.0	.0	5.3	.0		89.5
TOT PCT	1.6	2.6	1.0	.0	.0	.0	.0	5.2	1.6	.4	1.7	.0	.4	.0		90.6
TOT OBS:	689															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.9	2.5	.6	.0	.0	.0	.0	5.0	.6	.0	1.2	.0	.6	.0		92.5
06&09	1.3	3.5	1.3	.0	.0	.0	.0	6.2	1.3	.9	1.3	.0	.4	.0		89.9
12&15	1.4	1.4	.0	.0	.0	.0	.0	2.9	1.4	.7	.7	.0	.0	.0		94.2
18&21	1.6	3.6	1.6	.0	.0	.0	.0	6.7	2.6	.0	3.6	.0	.5	.0		86.5
TOT PCT	1.5	2.9	1.0	.0	.0	.0	.0	5.4	1.5	.4	1.8	.0	.4	.0		90.4
TOT OBS:	720															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	5.0	2.3	.2	.0	.0		8.4	8.5	5.6	8.7	8.6	9.7	10.8	10.6	7.5	6.6
NE	1.0	5.7	1.1	.0	.0	.0		7.8	7.2	9.4	5.1	5.0	8.7	9.3	11.2	9.6	7.6
E	1.6	7.6	6.5	.5	.0	.0		16.1	10.5	17.5	8.7	13.9	17.7	27.8	17.6	17.4	14.6
SE	1.9	13.6	11.2	1.5	.0	.0		28.1	11.1	35.8	28.0	35.5	27.8	22.8	22.9	23.7	22.7
S	1.6	7.3	5.8	1.1	.0	.0		15.8	11.0	16.4	24.8	15.5	9.4	8.6	10.6	16.2	21.2
SW	.9	3.8	4.1	.9	.0	.0		9.7	12.0	9.7	13.0	9.4	7.1	6.5	5.9	10.2	14.1
W	.6	2.1	1.4	.0	.0	.0		4.1	8.3	4.0	3.9	3.1	3.3	7.4	6.9	3.2	3.0
NW	.8	5.3	1.0	.1	.1	.0		7.4	8.0	1.6	5.5	8.0	15.3	4.3	11.2	6.3	6.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0	.0	2.4	1.0	.9	2.5	3.2	5.3	4.0
TOT OBS	115	480	318	40	1	0	954		9.9	93	127	200	106	81	94	156	99
TOT PCT	12.1	50.3	33.3	4.2	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.5	4.5	.4	.1	.0		8.4	8.5	7.4	9.0	10.7	7.1
NE	3.8	3.9	.1	.0	.0		7.8	7.2	6.9	6.3	10.3	8.8
E	4.8	8.5	2.5	.3	.0		16.1	10.5	12.4	15.2	22.3	16.3
SE	6.4	16.4	5.0	.3	.0		28.1	11.1	31.3	32.8	22.9	23.3
S	4.4	7.8	3.5	.2	.0		15.8	11.0	21.3	13.4	9.7	18.2
SW	2.9	3.3	3.4	.1	.0		9.7	12.0	11.6	8.6	6.1	11.8
W	2.2	1.5	.4	.0	.0		4.1	8.3	4.0	3.2	7.1	3.2
NW	3.4	3.6	.2	.1	.0		7.4	8.0	3.9	10.5	8.0	6.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	1.4	1.0	2.9	5.1
TOT OBS	323	472	149	10	0	954		9.9	220	306	175	253
TOT PCT	33.9	49.5	15.6	1.0	.0		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1912-1969
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.4	6.8	50.0	37.3	4.5	.0	.0	10.5	100.0	220
06&09	1.0	9.8	49.3	34.0	5.9	.0	.0	10.2	100.0	306
12&15	2.9	10.9	49.1	33.7	2.9	.6	.0	9.9	100.0	175
18&21	5.1	10.7	52.6	28.9	2.8	.0	.0	9.1	100.0	253
TOT	24	91	480	318	40	1	0	9.9		954
PCT	2.5	9.5	50.3	33.3	4.2	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.9	1.2	.8	.2		2.0
NE	2.9	2.0	3.4	1.0		4.0
E	9.1	4.1	6.5	1.7		3.6
SE	10.1	7.3	7.5	5.7		4.1
S	6.0	3.5	1.6	1.3		3.2
SW	5.8	1.0	1.1	.1		1.9
W	3.6	1.0	.3	.2		2.0
NW	2.7	.6	.1	.3		2.0
VAR	.0	.0	.0	.0		.0
CALM	1.0	.3	1.0	.0		3.8
TOT OBS	144	66	70	33	313	3.3
TOT PCT	46.0	21.1	22.4	10.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.5	.3	.0	.0	.0	.0	.0	6.3	
NE	.0	.0	.3	.4	1.4	.6	.3	.0	.0	.0	6.3	
E	.0	.0	.0	.6	5.3	.6	.0	.0	.0	.0	14.9	
SE	.0	.0	.4	3.3	5.4	.8	1.0	.0	.0	.0	19.8	
S	.0	.0	.2	.3	1.6	.5	.0	.0	.0	.0	9.7	
SW	.0	.1	.0	.0	.5	.6	.0	.0	.0	.0	6.9	
W	.0	.2	.0	.0	.3	.0	.0	.0	.0	.0	4.6	
NW	.0	.0	.0	.1	.3	.0	.0	.0	.0	.0	3.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	1.6	
TOT OBS	0	1	3	16	47	12	4	0	0	0	230	313
TOT PCT	.0	.3	1.0	5.1	15.0	3.8	1.3	.0	.0	.0	73.5	100.0

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 >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >2000	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
= OR >1000	18.9	19.8	20.1	20.1	20.1	20.1	20.1	20.1
= OR >600	22.6	24.2	25.2	25.2	25.2	25.2	25.2	25.2
= OR >300	23.0	25.2	26.1	26.1	26.1	26.1	26.1	26.1
= OR >150	23.0	25.5	26.4	26.4	26.4	26.4	26.4	26.4
= OR > 0	23.0	25.5	26.4	26.4	26.4	26.4	26.4	26.4
TOTAL	73	81	84	84	84	84	84	84

TOTAL NUMBER OF OBS: 318

PCT FREQ NH <5/8: 73.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
16.2	21.5	15.9	11.8	7.9	6.8	7.9	4.4	7.6	.0	340

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.1	.1	.8	.2	.3	.0	.0	.0	.0	1.6	
	TOT %	.0	.1	.1	.9	.2	.3	.0	.0	.0	.0	1.7	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
2<5	PCP	.0	.0	.1	.2	.1	.0	.0	.0	.0	.1	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.2	.1	.0	.0	.0	.0	.1	.6	
5<10	PCP	.5	.5	.1	1.3	.2	.0	.0	.5	.0	.0	3.1	
	NO PCP	2.4	2.9	5.4	11.8	7.2	4.2	1.6	3.2	.0	1.2	39.8	
	TOT %	2.9	3.4	5.5	13.1	7.4	4.2	1.6	3.7	.0	1.2	42.9	
10+	PCP	.1	*	.7	.5	.1	.0	.0	.0	.0	.0	1.5	
	NO PCP	4.1	4.6	10.7	15.7	7.4	4.7	2.5	2.1	.0	1.3	53.1	
	TOT %	4.2	4.6	11.4	16.2	7.5	4.7	2.5	2.1	.0	1.3	54.5	
	TOT OBS												688
	TOT PCT	7.2	8.2	17.1	30.4	15.3	9.1	4.1	5.8	.0	2.8	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	4-10	.0	.1	.0	.5	.2	.0	.0	.0	.0		.8	
	11-21	.0	.0	.0	.3	.0	.3	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.1	.9	.2	.3	.0	.0	.0	.0	1.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.3	
2<5	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.3	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.1	.2	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.2	.2	.0	.0	.0	.0		.4	
	TOT %	.0	.0	.1	.4	.3	.0	.0	.0	.0	.1	.9	
5<10	0-3	.3	.7	.6	.8	.5	.9	.0	.7	.0	1.2	5.7	
	4-10	1.5	2.3	2.9	6.2	4.1	1.2	.9	2.0	.0		21.1	
	11-21	.8	.4	1.7	5.1	1.8	1.3	.6	.6	.0		12.4	
	22+	.0	.0	.0	.3	.5	.6	.0	.0	.0		1.3	
	TOT %	2.6	3.4	5.2	12.4	6.9	4.0	1.5	3.4	.0	1.2	40.6	
10+	0-3	.7	.6	1.0	1.2	.4	.1	.4	.2	.0	1.2	5.9	
	4-10	2.0	3.2	5.4	7.9	3.2	2.1	1.2	2.1	.0		27.1	
	11-21	1.3	.8	5.5	7.1	3.7	2.5	.8	.5	.0		22.2	
	22+	.2	.0	.0	.3	.2	.3	.0	.2	.0		1.2	
	TOT %	4.3	4.6	11.9	16.5	7.6	4.9	2.4	3.0	.0	1.2	56.4	
	TOT OBS												748
	TOT PCT	7.1	8.1	17.3	30.2	15.1	9.2	3.9	6.4	.0	2.7	100.0	

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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
00&03	.0	.0	1.1	4.3	13.0	4.3	3.3	.0	.0	.0	26.1	73.9	92
06&09	.0	.0	2.0	8.9	15.8	4.0	2.0	.0	.0	.0	32.7	67.3	101
12&15	.0	.0	.0	2.6	14.5	2.6	.0	.0	.0	.0	19.7	80.3	76
18&21	.0	1.6	.0	1.6	12.5	3.1	.0	.0	.0	.0	18.8	81.3	64
TOT	0	1	3	16	47	12	5	0	0	0	84	249	333
PCT	.0	.3	.9	4.8	14.1	3.6	1.5	.0	.0	.0	25.2	74.8	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
00&03	.0	1.2	.0	.6	35.8	62.4	173
06&09	.0	1.6	.4	1.2	43.4	53.4	249
12&15	.0	.7	.0	.7	35.2	63.4	145
18&21	.5	2.8	.5	.9	50.5	44.8	212
TOT	1	13	2	7	328	428	779
PCT	.1	1.7	.3	.9	42.1	54.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.1	5.7	21.6	72.7	88
06&09	.0	2.1	11.5	22.9	65.6	96
12&15	.0	.0	2.8	18.1	79.2	72
18&21	.0	1.6	4.8	14.5	80.6	62
TOT	0	4	21	63	234	318
PCT	.0	1.3	6.6	19.8	73.6	100.0

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
85/89	.0	.0	.0	.0	.0	.2	.0	.0	1	.2
80/84	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
75/79	.0	.0	.0	.4	.4	.6	.2	.0	8	1.6
70/74	.0	.2	.8	1.6	9.1	10.3	6.9	2.8	160	31.6
65/69	.0	.2	1.6	7.7	10.7	17.2	12.6	5.3	280	55.3
60/64	.0	1.2	.4	2.0	.8	2.2	3.0	.8	52	10.3
55/59	.0	.0	.0	.2	.2	.0	.2	.2	4	.8
TOTAL	0	8	14	60	108	154	116	46	506	100.0
PCT	.0	1.6	2.8	11.9	21.3	30.4	22.9	9.1		

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	.2	.0	.0	.0
	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
	.2	.3	.6	.4	.0	.0	.0	.0	.0	.0
	2.9	2.9	8.3	9.8	3.3	.8	.0	2.2	.0	1.4
	2.0	6.2	8.3	19.8	8.2	3.6	3.0	2.7	.0	1.6
	.0	.2	.2	1.9	4.2	3.1	.7	.0	.0	.0
	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
	5.0	9.6	17.5	31.9	15.7	8.0	4.0	4.9	.0	3.4

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	77	76	74	69	62	56	56	68.9	217
06&09	83	76	73	69	63	62	61	68.8	311
12&15	80	73	71	68	63	62	62	68.2	174
18&21	86	75	72	68	61	57	55	67.4	261
TOT	86	75	73	68	63	60	55	68.3	963

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	19.5	24.4	29.3	21.1	5.7	71	123
06&09	.0	19.4	24.2	30.3	16.4	9.7	71	165
12&15	.0	13.9	20.8	28.7	30.7	5.9	74	101
18&21	.0	12.2	15.3	30.5	29.0	13.0	75	131
TOT	0	86	111	155	122	46	72	520

PERIOD: (PRIMARY) 1912-1969
(OVER-ALL) 1863-1969

AREA 0004 ROCKHAMPTON
23.25 152.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) 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	85 88	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.0	.0	.4	.2	.0	.0	.2	4	.0	.7
6	.0	.0	.0	.2	.4	.5	.4	.0	.0	8	.0	1.4
5	.0	.0	.0	.2	.2	.4	.0	.0	.0	4	.0	.7
4	.0	.0	.0	.5	.7	.5	.0	.0	.0	10	.0	1.8
3	.0	.0	.4	.2	.9	1.1	.0	.0	.0	14	.2	2.3
2	.0	.0	.0	2.3	4.1	1.1	.0	.0	.0	42	.0	7.5
1	.0	.0	.0	2.7	4.8	1.4	.0	.0	.0	50	.0	8.9
0	.0	.0	.5	2.9	7.9	.7	.0	.0	.0	67	.0	12.0
-1	.0	.0	.4	7.3	8.2	.7	.0	.0	.0	93	.4	16.3
-2	.0	.0	.9	5.5	6.4	.2	.0	.0	.0	73	.4	12.7
-3	.0	.0	1.4	3.6	2.5	.2	.0	.0	.0	43	.0	7.7
-4	.0	.0	2.3	4.7	2.9	.2	.0	.0	.0	56	.0	10.0
-5	.0	.2	1.1	3.6	1.3	.4	.0	.0	.0	36	.2	6.3
-6	.0	.0	1.4	2.5	.7	.2	.0	.0	.0	27	.0	4.8
-7/-8	.2	.7	1.4	1.4	.0	.0	.0	.0	.0	21	.2	3.6
-9/-10	.0	.0	.5	.5	.0	.0	.0	.0	.0	6	.0	1.1
-11/-13	.2	.2	.0	.4	.0	.0	.0	.0	.0	4	.0	.7
TOTAL	2	6	58	215	231	43	2	0	2	559	7	552
PCT	.4	1.1	10.4	38.5	41.3	7.7	.4	.0	.4	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.4	1.8	.0	.0	.0	.0	2.1
3-4	.0	.8	.7	.3	.0	.0	1.8
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.4	.3	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	3.6	1.5	.6	.0	.0	6.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.9	.0	.0	.0	.0	3.7
1-2	.0	3.9	.1	.0	.0	.0	4.0
3-4	.0	.5	.9	.0	.0	.0	1.4
5-6	.0	1.2	.8	.0	.0	.0	2.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.8	8.5	1.8	.0	.0	.0	11.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	2.0	.0	.0	.0	.0	3.1
1-2	.4	5.2	1.0	.0	.0	.0	6.5
3-4	.0	1.3	6.3	.0	.0	.0	7.5
5-6	.0	.3	3.1	.0	.0	.0	3.4
7	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.6	8.7	11.1	.0	.0	.0	21.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.6	.1	.0	.0	.0	1.8
1-2	.4	5.3	1.1	.0	.0	.0	6.7
3-4	.4	4.8	9.7	.0	.0	.0	14.8
5-6	.0	.5	5.2	.8	.0	.0	6.4
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.9	12.1	16.4	.8	.0	.0	30.2

PERIOD: (OVER-ALL) 1963-1969

AUGUST

TABLE 18 (CONT)

AREA 0004 ROCKHAMPTON
23.2S 152.3E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.7	.3	.0	.0	.0	1.7	.0	1.2	.0	.0	.0	.0	1.2
1-2	.4	1.4	1.4	.0	.0	.0	3.1	.0	1.6	.4	.0	.0	.0	2.0
3-4	.0	2.7	4.0	.4	.0	.0	7.1	.0	.2	2.1	.4	.0	.0	2.7
5-6	.0	.3	1.9	.0	.0	.0	2.1	.0	.1	.5	.0	.0	.0	.6
7	.0	.0	.6	.0	.0	.0	.6	.0	.0	1.0	.0	.0	.0	1.0
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	.4	.0	.0	.4
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
TOT PCT	1.1	5.1	8.1	.4	.0	.0	14.6	.0	3.0	4.0	.8	.0	.0	7.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
1-2	.0	1.1	.0	.0	.0	.0	1.1	.0	1.0	.0	.0	.0	.0	1.0	
3-4	.0	.3	1.0	.0	.0	.0	1.3	.0	.4	.4	.1	.0	.0	.9	
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4	
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	
TOT PCT	.0	1.4	1.3	.0	.0	.0	2.6	.0	1.8	.4	.2	.4	.0	2.7	96.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.2	10.1	.4	.0	.0	.0	16.7	
1-2	1.6	21.0	3.9	.0	.0	.0	26.5	
3-4	.4	10.9	24.9	1.2	.0	.0	37.4	
5-6	.0	2.3	12.1	.8	.0	.0	15.2	
7	.0	.0	3.1	.4	.0	.0	3.5	
8-9	.0	.0	.0	.0	.4	.0	.4	
10-11	.0	.0	.0	.4	.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	
								257
TOT PCT	8.2	44.4	44.4	2.7	.4	.0	100.0	

PERIOD: (OVER-ALL) 1949-1969

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	2.6	9.2	16.5	11.9	2.0	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	133	4
6-7	.0	1.3	10.2	10.6	4.0	2.3	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	89	5
8-9	.0	.3	3.3	7.3	2.3	2.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	6
10-11	.0	.0	.0	2.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	5
12-13	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.3	.7	1.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	8
INDET	2.6	.7	.3	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	2
TOTAL	16	35	93	98	31	20	9	0	1	0	0	0	0	0	0	0	0	0	0	303	4
PCT	5.3	11.6	30.7	32.3	10.2	6.6	3.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1919-1971
(OVER-ALL) 1871-1971

AREA 0004 ROCKHAMPTON
23.2S 152.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	2.9	2.2	.0	.0	.0	.0	5.1	.0	.0	.7	.0	8.1	.0	86.1
NE	.0	.0	1.2	.0	.0	.0	.0	1.2	.0	.0	2.3	.0	2.3	.0	94.2
E	3.4	.5	.0	.0	.0	.0	.0	4.0	.0	1.1	.0	.0	1.1	.0	93.9
SE	.8	1.2	1.6	.0	.0	.0	.0	3.7	.8	.8	.0	.0	.0	.0	94.7
S	2.8	4.8	.0	.0	.0	.0	.0	7.6	.0	1.6	.0	.0	3.2	.0	87.6
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	2.5	.0	96.7
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	.0	.0	100.0
TOT PCT	1.2	1.4	.8	.0	.0	.0	.0	3.3	.2	.6	.4	.0	2.1	.0	93.4
TOT OBS:	518														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.5	.0	.8	.0	.0	.0	.0	2.3	.8	.0	.0	.0	2.3	.0	94.6
06&09	.0	.0	1.2	.0	.0	.0	.0	1.2	.0	.6	.6	.0	2.9	.0	94.8
12&15	1.0	1.9	.0	.0	.0	.0	.0	2.9	.0	.0	.0	.0	1.0	.0	96.2
18&21	2.1	3.4	.7	.0	.0	.0	.0	6.2	.0	2.1	.7	.0	2.1	.0	89.0
TOT PCT	1.1	1.3	.7	.0	.0	.0	.0	3.1	.2	.7	.4	.0	2.2	.0	93.5
TOT OBS:	553														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.9	8.2	3.0	.3	.0	.0		13.4	8.1	10.1	10.0	16.0	19.5	17.6	14.0	13.4	5.8
NE	1.8	6.9	.5	.3	.0	.0		9.6	6.8	3.0	10.0	6.1	12.2	11.6	12.2	12.0	11.5
E	3.2	9.8	5.9	.9	.0	.0		19.8	9.5	11.6	17.2	15.5	23.8	18.5	32.6	21.9	19.2
SE	1.1	8.5	12.6	1.6	.0	.0		23.8	12.7	27.7	25.0	28.1	26.8	24.5	19.2	20.5	17.3
S	.6	4.2	4.8	.3	.0	.0		10.0	11.1	17.0	14.4	11.2	3.0	8.3	4.1	9.7	10.3
SW	.1	2.3	2.1	.1	.0	.0		4.7	10.5	12.8	6.7	3.1	.0	2.3	2.9	2.9	8.3
W	.3	2.1	1.2	.0	.0	.0		3.5	8.9	5.1	2.8	4.1	1.8	3.2	2.9	3.3	4.5
NW	1.1	6.9	3.9	.1	.0	.0		12.0	8.9	11.6	12.8	11.9	11.6	2.8	12.2	12.4	17.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2							3.2	.0	1.2	1.1	4.1	1.2	11.1	.0	3.9	5.1
TOT OBS	100	367	255	28	0	0	750		9.6	84	90	147	82	54	86	129	78
TOT PCT	13.3	48.9	34.0	3.7	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.1	6.6	.4	.2	.0		13.4	8.1	10.1	17.2	15.4	10.5
NE	5.6	3.6	.3	.1	.0		9.6	6.8	6.6	8.3	12.0	11.8
E	7.8	8.4	3.7	.0	.0		19.8	9.5	14.5	18.4	27.1	20.9
SE	3.5	13.3	6.6	.4	.0		23.8	12.7	26.3	27.6	21.3	19.3
S	2.2	6.2	1.5	.0	.0		10.0	11.1	15.7	8.3	5.7	9.9
SW	1.0	3.4	.3	.0	.0		4.7	10.5	9.6	2.0	2.7	5.0
W	1.2	2.1	.2	.0	.0		3.5	8.9	3.9	3.3	3.0	3.7
NW	5.1	6.1	.8	.0	.0		12.0	8.9	12.2	11.8	8.6	14.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.2						3.2	.0	1.1	3.1	4.3	4.3
TOT OBS	268	372	105	5	0	750		9.6	174	229	140	207
TOT PCT	35.7	49.6	14.0	.7	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.1	7.5	48.3	39.1	4.0	.0	.0	10.5	100.0	174
06&09	3.1	11.4	45.9	36.2	3.5	.0	.0	9.8	100.0	229
12&15	4.3	10.0	54.3	27.1	4.3	.0	.0	9.0	100.0	140
18&21	4.3	11.1	49.3	31.9	3.4	.0	.0	9.1	100.0	207
TOT	24	76	367	255	28	0	0	9.6		750
PCT	3.2	10.1	48.9	34.0	3.7	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.2	2.4	3.4	.4		2.7
NE	6.8	.5	.5	.0		1.6
E	10.5	2.2	2.3	.4		2.0
SE	10.5	8.3	6.3	.8		3.1
S	9.2	3.4	1.5	.4		2.2
SW	3.9	1.0	.9	.0		2.0
W	2.7	.6	.7	.0		1.6
NW	5.1	1.9	.6	.0		2.2
VAR	.0	.0	.0	.0		.0
CALM	4.6	.0	.4	.4		1.3
TOT OBS	145	49	40	6	240	2.3
TOT PCT	60.4	20.4	16.7	2.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.4	1.6	1.6	.0	.0	.0	.0	9.9	
NE	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	7.4	
E	.0	.0	.0	.7	.4	.0	.4	.0	.0	.0	13.9	
SE	.0	.0	.0	3.0	.6	1.3	.0	.0	.0	.0	21.0	
S	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	13.0	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	
NW	.0	.0	.0	.0	.5	.1	.0	.0	.0	.0	7.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	5.0	
TOT OBS	0	0	0	10	12	8	1	0	0	0	209	240
TOT PCT	.0	.0	.0	4.2	5.0	3.3	.4	.0	.0	.0	87.1	100.0

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 >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	.4	.4	.4	.4	.4	.4	.4	.4
= OR >2000	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
= OR >1000	8.0	8.4	8.4	8.4	8.4	8.4	8.4	8.4
= OR >600	11.2	12.0	12.4	12.4	12.4	12.4	12.4	12.4
= OR >300	11.2	12.0	12.4	12.4	12.4	12.4	12.4	12.4
= OR >150	11.2	12.0	12.4	12.4	12.4	12.4	12.4	12.4
= OR > 0	11.2	12.0	12.4	12.4	12.4	12.4	12.4	12.4
TOTAL	28	30	31	31	31	31	31	31

TOTAL NUMBER OF OBS: 250

PCT FREQ NH <5/8: 87.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
23.6	28.1	16.5	13.1	5.6	4.1	3.0	4.1	1.9	.0	267

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.8	.2	.2	.0	.2	.0	.0	.0	.0	.0	1.4	
	TOT %	.8	.2	.2	.0	.2	.0	.0	.0	.0	.0	1.4	
2<5	PCP	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.4	
5<10	PCP	.5	.1	.2	.6	.5	.0	.0	.0	.0	.0	1.9	
	NO PCP	4.2	4.0	8.2	8.8	3.3	1.9	1.7	6.7	.0	.4	39.2	
	TOT %	4.7	4.1	8.4	9.4	3.8	1.9	1.7	6.7	.0	.4	41.1	
10+	PCP	.0	.0	.3	.2	.4	.0	.0	.0	.0	.0	1.0	
	NO PCP	7.4	3.8	9.2	13.9	7.6	3.9	2.4	5.0	.0	2.7	55.8	
	TOT %	7.4	3.8	9.5	14.1	8.0	3.9	2.4	5.0	.0	2.7	56.8	
	TOT OBS												518
	TOT PCT	13.2	8.3	18.3	23.5	12.0	5.8	4.1	11.7	.0	3.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.0	.0	.0	.0	.1	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	11-21	.5	.0	.0	.0	.0	.0	.0	.0	.0		.5	
	22+	.2	.0	.2	.0	.0	.0	.0	.0	.0		.4	
	TOT %	.7	.2	.2	.0	.2	.0	.0	.0	.0	.0	1.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.4	
5<10	0-3	.5	1.5	1.0	.2	.0	.0	.2	.5	.0	.4	4.2	
	4-10	2.9	2.1	2.5	2.2	1.6	.8	.7	4.0	.0		16.8	
	11-21	.9	.1	3.9	5.0	1.7	1.0	.7	1.6	.0		14.8	
	22+	.1	.1	.4	1.3	.2	.0	.0	.0	.0		2.1	
	TOT %	4.4	3.8	7.8	8.7	3.5	1.8	1.6	6.1	.0	.4	37.9	
10+	0-3	.7	.2	1.6	.9	.7	.1	.1	.4	.0	2.8	7.6	
	4-10	4.6	3.4	5.0	5.0	2.8	1.9	1.7	3.1	.0		27.5	
	11-21	2.5	.6	2.7	8.2	3.7	1.5	.8	3.4	.0		23.5	
	22+	.2	.4	.4	.6	.0	.0	.0	.0	.0		1.6	
	TOT %	8.0	4.5	9.7	14.6	7.3	3.6	2.6	6.9	.0	2.8	60.1	
	TOT OBS												567
	TOT PCT	13.4	8.7	17.9	23.3	11.0	5.3	4.2	13.1	.0	3.2	100.0	

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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
00&03	.0	.0	.0	4.9	8.6	1.2	1.2	.0	.0	.0	16.0	84.0	81
06&09	.0	.0	.0	2.8	2.8	4.2	.0	.0	.0	.0	9.7	90.3	72
12&15	.0	.0	.0	5.6	1.9	5.6	.0	.0	.0	.0	13.0	87.0	54
18&21	.0	.0	.0	1.8	3.6	1.8	.0	.0	.0	.0	7.1	92.9	56
TOT	0	0	0	10	12	8	1	0	0	0	31	232	263
PCT	.0	.0	.0	3.8	4.6	3.0	.4	.0	.0	.0	11.8	88.2	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
00&03	.0	.0	1.5	.0	29.2	69.3	137
06&09	.0	.5	1.6	.0	43.2	54.7	190
12&15	.0	.0	.0	.0	36.5	63.5	115
18&21	.6	.0	1.9	1.3	45.0	51.3	160
TOT	1	1	8	2	236	354	602
PCT	.2	.2	1.3	.3	39.2	58.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	5.2	11.7	83.1	77
06&09	.0	.0	2.9	7.4	89.7	68
12&15	.0	.0	5.8	7.7	86.5	52
18&21	.0	.0	1.9	5.7	92.5	53
TOT	0	0	10	21	219	250
PCT	.0	.0	4.0	8.4	87.6	100.0

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
80/84	.0	.0	.0	.0	.2	.7	.0	.0	4	1.0
75/79	.0	.0	.2	1.2	3.1	3.1	.5	.2	35	8.3
70/74	.0	.0	1.9	6.2	12.9	17.1	10.2	6.4	230	54.8
65/69	.0	.0	2.1	5.5	6.7	8.3	7.4	4.3	144	34.3
60/64	.0	.0	.0	.7	.2	.0	.5	.2	7	1.7
TOTAL	0	0	18	57	97	123	78	47	420	100.0
PCT	.0	.0	4.3	13.6	23.1	29.3	18.6	11.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.2	.1	.0	.0	.2	.0	.0	.2	.0	.2
	1.7	.3	1.6	1.4	.7	.2	.5	1.4	.0	.5
	8.8	3.9	11.7	12.8	5.3	2.5	1.6	6.5	.0	1.7
	2.9	2.7	6.3	8.6	6.5	1.9	1.6	2.9	.0	1.0
	.0	.0	.0	.0	.2	1.1	.4	.0	.0	.0
	13.6	7.0	19.6	22.8	13.0	5.7	4.0	11.0	.0	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	85	81	77	71	66	64	61	71.6	174
06&09	81	80	76	71	66	63	62	70.9	241
12&15	76	74	73	70	66	65	65	69.5	146
18&21	79	76	74	70	65	60	60	69.6	217
TOT	85	79	75	70	65	62	60	70.4	778

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	24.3	31.8	31.8	6.5	5.6	67	107
06&09	.0	18.8	25.6	29.3	18.0	8.3	71	133
12&15	.0	11.6	15.1	33.7	24.4	15.1	75	86
18&21	.0	13.7	19.7	23.9	25.6	17.1	76	117
TOT	0	77	104	130	82	50	72	443

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	WO FOG
11/13	.0	.0	.0	.0	.2	.0	.0	.2	2	.0	.4
9/10	.0	.0	.0	.0	.2	.2	.2	.0	3	.0	.7
7/8	.0	.0	.0	.0	.2	.2	.0	.0	2	.0	.4
6	.0	.0	.0	.0	.2	.2	.2	.0	3	.0	.7
5	.0	.0	.0	.2	1.1	.4	.0	.0	8	.0	1.8
4	.0	.0	.2	1.3	.7	.7	.0	.0	13	.0	2.9
3	.0	.0	.2	4.7	2.5	.4	.0	.0	35	.0	7.8
2	.0	.0	.9	5.8	2.5	.0	.0	.0	41	.0	9.2
1	.0	.0	2.9	9.2	2.5	.2	.0	.0	66	.0	14.8
0	.0	.0	2.7	8.7	2.0	.0	.0	.0	60	.0	13.4
-1	.0	.0	3.8	10.5	2.9	.0	.0	.0	77	.0	17.2
-2	.0	.0	.9	5.1	.9	.0	.0	.0	31	.0	6.9
-3	.0	.0	2.0	4.9	.9	.0	.0	.0	35	.0	7.8
-4	.0	.2	2.5	2.9	.0	.0	.0	.0	25	.0	5.6
-5	.0	.2	2.2	2.7	.0	.0	.0	.0	23	.0	5.1
-6	.2	.2	1.1	.9	.0	.0	.0	.0	11	.0	2.5
-7/-8	.2	.9	.4	.4	.0	.0	.0	.0	9	.0	2.0
-9/-10	.0	.2	.2	.0	.0	.0	.0	.0	2	.0	.4
-11/-13	.0	.2	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	2		90		73		2			0	447
		9		257		11		1	447		
PCT	.4	2.0	20.1	57.5	16.8	2.5	.4	.2	100.0		100.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.5	.0	.0	.0	.0	2.9
1-2	.0	6.1	1.8	.0	.0	.0	8.0
3-4	.0	1.3	.7	.0	.0	.0	2.1
5-6	.0	.4	1.7	.0	.0	.0	2.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.5	10.3	4.3	.0	.0	.0	15.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.0	.0	.0	.0	.0	.5
1-2	.0	3.4	.5	.0	.0	.0	3.9
3-4	.0	.6	.1	.0	.0	.0	.7
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.5	4.2	.6	.0	.0	.0	5.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.0	.0	.0	.0	.0	.4
1-2	.0	4.5	.5	.0	.0	.0	5.0
3-4	.0	2.1	2.7	.4	.0	.0	5.1
5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.5	.9	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	6.6	5.0	1.2	.0	.0	13.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.5	.0	.0	.0	.0	1.1
1-2	.1	1.7	2.0	.0	.0	.0	3.8
3-4	.0	3.3	8.7	.1	.0	.0	12.1
5-6	.0	.5	3.6	.0	.0	.0	4.0
7	.0	.0	2.5	.6	.0	.0	3.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.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
TOT PCT	.7	6.0	16.7	1.2	.0	.0	24.6

PERIOD: (OVER-ALL) 1963-1971

SEPTEMBER

TABLE 18 (CONT)

AREA 0004 ROCKHAMPTON
23.25 152.3E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.5	.0	.0	.0	.0	2.0
1-2	.9	3.3	.9	.0	.0	.0	5.0
3-4	.5	.9	5.4	.0	.0	.0	6.7
5-6	.0	.0	2.5	.0	.0	.0	2.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.9	.0	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.8	5.6	9.6	.0	.0	.0	17.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	1.1	.1	.0	.0	.0	1.2
3-4	.0	.5	2.5	.0	.0	.0	2.9
5-6	.0	.5	1.5	.0	.0	.0	2.0
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	2.6	4.3	.0	.0	.0	6.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	3.4	.0	.0	.0	.0	3.4
3-4	.0	.0	.7	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	3.8	1.1	.0	.0	.0	4.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	.1	.0	.0	.0	.0	.6	
1-2	.0	3.3	.6	.0	.0	.0	3.9	
3-4	.0	2.1	1.2	.0	.0	.0	3.3	
5-6	.0	.0	.7	.0	.0	.0	.7	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.5	.0	.0	.0	.5	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	.5	5.5	3.1	.0	.0	.0	9.1	96.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.1	5.2	.0	.0	.0	.0	13.3	
1-2	2.4	26.2	6.2	.0	.0	.0	34.8	
3-4	.5	10.5	21.4	.5	.0	.0	32.9	
5-6	.0	1.4	11.0	.0	.0	.0	12.4	
7	.0	.0	3.3	1.4	.0	.0	4.8	
8-9	.0	.0	1.4	.0	.0	.0	1.4	
10-11	.0	.0	.0	.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	
TOT PCT	11.0	43.3	43.3	2.4	.0	.0	100.0	210

PERIOD: (OVER-ALL) 1949-1971

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-.6	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	12.1	18.1	12.5	4.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	115	4
6-7	.0	3.0	7.8	8.2	6.5	3.0	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	5
8-9	.0	.0	.9	3.4	2.6	.9	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	7
10-11	.0	.9	.0	1.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
12-13	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3
>13	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
INDET	3.0	.4	.4	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	2
TOTAL	12	38	66	65	32	12	4	2	1	0	0	0	0	0	0	0	0	0	0	232	4
PCT	5.2	16.4	28.4	28.0	13.8	5.2	1.7	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1922-1971
(OVER-ALL) 1877-1971

AREA 0004 ROCKHAMPTON
23.25 152.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.1	4.4	.0	.0	.0	.0	.0	5.5	.0	1.1	1.7	.0	3.3	.0	88.4
NE	.0	3.8	.9	.0	.0	.0	.0	4.7	.0	.0	.0	.0	.9	.0	94.4
E	1.4	4.5	.0	.0	.0	.0	.0	5.9	1.3	.5	.0	.0	1.7	.0	91.1
SE	2.9	5.5	.6	.0	.0	.0	.0	8.9	3.6	.0	.3	.0	1.7	.0	85.5
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	2.2	.0	2.2	.0	92.1
SW	15.4	7.7	.0	.0	.0	.0	.0	23.1	.0	9.6	.0	.0	11.5	.0	63.5
W	12.5	.0	.0	.0	.0	.0	.0	12.5	.0	12.5	.0	.0	6.3	.0	81.3
NW	.0	2.2	.0	.0	.0	.0	.0	2.2	.0	.0	1.1	.0	.0	.0	96.6
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	15.4	.0	84.6
TOT PCT	1.8	4.3	.3	.0	.0	.0	.0	6.3	1.3	.7	.4	.0	2.2	.0	89.4
TOT OBS:	682														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.3	3.2	.6	.0	.0	.0	.0	5.1	1.9	.0	.0	.0	4.5	.0	88.5
06&09	.9	4.4	.4	.0	.0	.0	.0	5.8	.9	.0	1.3	.0	3.1	.0	88.9
12&15	1.4	2.7	.0	.0	.0	.0	.0	4.1	.0	1.4	.0	.0	.7	.0	94.6
18&21	3.2	7.0	.0	.0	.0	.0	.0	10.3	2.2	1.6	.0	.0	.5	.0	86.5
TOT PCT	1.7	4.5	.3	.0	.0	.0	.0	6.4	1.3	.7	.4	.0	2.2	.0	89.4
TOT OBS:	715														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.9	8.7	2.8	.0	.0	.0		13.4	7.6	7.2	13.5	14.2	17.8	8.2	18.5	10.6	17.4
NE	1.3	10.9	2.9	.1	.0	.0		15.3	7.8	9.9	17.2	12.1	16.3	15.3	25.0	14.7	15.8
E	1.9	14.5	11.4	.9	.0	.0		28.8	10.5	36.1	20.8	26.5	32.7	35.6	29.3	30.3	20.3
SE	.6	9.3	13.9	1.3	.1	.0		25.2	12.4	26.0	25.0	28.5	22.3	31.8	21.2	22.3	23.4
S	.5	1.3	1.9	.3	.0	.0		3.9	11.3	5.2	4.2	3.6	1.5	2.1	1.1	6.6	5.8
SW	.1	.9	1.1	.1	.0	.0		2.2	11.4	4.5	3.1	2.2	.5	1.2	.5	2.3	3.2
W	.4	.5	.5	.0	.0	.0		1.4	8.2	1.5	2.6	1.7	.0	.9	.5	1.4	2.1
NW	1.1	4.0	2.5	.0	.0	.0		7.5	8.5	7.7	11.5	8.6	7.9	2.6	1.6	8.2	10.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0	2.0	2.1	2.6	1.0	2.4	2.2	3.5	2.1
TOT OBS	92	453	334	25	1	0	905		9.8	101	96	194	101	85	92	141	95
TOT PCT	10.2	50.1	36.9	2.8	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.4	6.5	.5	.0	.0		13.4	7.6	10.3	15.4	13.6	13.3
NE	6.7	8.3	.2	.0	.0		15.3	7.8	13.5	13.6	20.3	15.1
E	6.4	18.0	4.3	.0	.0		28.8	10.5	28.7	28.6	32.3	26.3
SE	3.5	15.4	6.1	.3	.0		25.2	12.4	25.5	26.4	26.3	22.8
S	1.0	2.0	.8	.1	.0		3.9	11.3	4.7	2.9	1.6	6.3
SW	.4	1.6	.1	.1	.0		2.2	11.4	3.8	1.6	.8	2.6
W	.6	.7	.1	.0	.0		1.4	8.2	2.0	1.1	.7	1.7
NW	3.0	4.3	.3	.0	.0		7.5	8.5	9.5	8.4	2.1	8.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.3						2.3	.0	2.0	2.0	2.3	3.0
TOT OBS	274	515	112	4	0	905		9.8	197	295	177	236
TOT PCT	30.3	56.9	12.4	.4	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.0	10.2	46.7	39.1	1.5	.5	.0	9.9	100.0	197
06&09	2.0	10.2	46.4	37.3	4.1	.0	.0	9.9	100.0	295
12&15	2.3	6.8	52.0	35.6	3.4	.0	.0	9.7	100.0	177
18&21	3.0	3.8	55.9	35.6	1.7	.0	.0	9.7	100.0	236
TOT	21	71	453	334	25	1	0	9.8		905
PCT	2.3	7.8	50.1	36.9	2.8	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.0	1.1	.8	1.2		2.6
NE	6.0	2.9	1.9	.4		2.8
E	15.3	9.6	7.5	1.0		3.1
SE	11.3	9.4	7.1	1.9		3.5
S	2.5	1.4	.6	.3		2.5
SW	.9	.6	.3	.3		3.5
W	.5	.0	.6	.0		3.9
NW	4.3	1.4	1.0	.0		1.8
VAR	.0	.0	.0	.0		.0
CALM	2.2	.0	.0	.6		2.6
TOT OBS	150	83	62	18	313	3.0
TOT PCT	47.9	26.5	19.8	5.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.6	.5	.3	.0	.0	.0	6.8	
NE	.0	.0	.0	.3	.8	.2	.3	.0	.0	.0	9.6	
E	.0	.0	.0	.0	2.0	1.0	.3	.0	.0	.0	30.0	
SE	.0	.0	.3	.6	3.4	.9	.0	.1	.0	.0	24.4	
S	.0	.0	.0	.0	.3	.0	.0	.2	.0	.0	4.2	
SW	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	1.5	
W	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.7	
NW	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	6.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	2.2	
TOT OBS	0	0	1	3	24	9	6	1	0	1	268	313
TOT PCT	.0	.0	.3	1.0	7.7	2.9	1.9	.3	.0	.3	85.6	100.0

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 >50YD	* OR >0
* OR >6500	.3	.3	.3	.3	.3	.3	.3	.3
* OR >5000	.6	.6	.6	.6	.6	.6	.6	.6
* OR >3500	2.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5
* OR >2000	5.6	5.9	5.9	5.9	5.9	5.9	5.9	5.9
* OR >1000	11.6	13.8	13.8	13.8	13.8	13.8	13.8	13.8
* OR >600	12.2	14.4	14.7	14.7	14.7	14.7	14.7	14.7
* OR >300	12.5	14.7	15.0	15.0	15.0	15.0	15.0	15.0
* OR >150	12.5	14.7	15.0	15.0	15.0	15.0	15.0	15.0
* OR > 0	12.5	14.7	15.0	15.0	15.0	15.0	15.0	15.0
TOTAL	40	47	48	48	48	48	48	48

TOTAL NUMBER OF OBS: 320 PCT FREQ NH <5/8: 85.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
12.7	29.1	21.0	17.8	8.3	5.0	4.7	2.7	2.7	.0	338

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.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	
	NO PCP	.2	.0	.0	.1	.1	.0	.0	.1	.0	.0	.4	
	TOT %	.2	.0	.0	.1	.1	.0	.0	.1	.0	.0	.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.4	.0	.0	.1	.1	.1	.1	.0	.0	.1	.9	
	TOT %	.4	.0	.0	.1	.1	.1	.1	.0	.0	.1	.9	
2<5	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
5<10	PCP	.7	.4	1.8	2.3	.0	.4	.1	.1	.0	.0	6.0	
	NO PCP	7.5	8.6	12.6	9.3	.4	.1	.4	3.2	.0	.1	42.1	
	TOT %	8.2	9.1	14.4	11.5	.4	.5	.5	3.4	.0	.1	48.2	
10+	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	4.4	6.1	16.4	13.8	2.6	1.3	.6	3.1	.0	1.6	50.1	
	TOT %	4.4	6.2	16.4	13.8	2.6	1.3	.6	3.1	.0	1.6	50.2	
	TOT OBS												681
	TOT PCT	13.3	15.6	30.9	25.5	3.1	1.9	1.2	6.6	.0	1.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.1	.1	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.2	.0	.0	.0	.0	.0	.0	.1	.0		.3	
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0		.1	
	TOT %	.2	.0	.0	.1	.1	.0	.0	.1	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.3	.0	.0	.0	.0	.1	.1	.0	.0		.4	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0		.1	
	TOT %	.4	.0	.0	.1	.1	.1	.1	.0	.0	.1	.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
5<10	0-3	1.0	.7	.9	.4	.0	.0	.0	.4	.0	.1	3.5	
	4-10	4.8	6.2	6.0	4.4	.1	.1	.2	1.6	.0		23.5	
	11-21	1.8	1.3	5.4	5.1	.2	.3	.3	1.5	.0		15.9	
	22+	.0	.1	.8	.6	.1	.0	.0	.0	.0		1.6	
	TOT %	7.6	8.4	13.1	10.5	.3	.5	.5	3.5	.0	.1	44.5	
10+	0-3	.8	.5	1.2	.4	.4	*	.3	.6	.0	1.7	6.0	
	4-10	4.0	4.1	8.4	4.6	1.0	.7	.2	2.8	.0		25.8	
	11-21	1.0	1.9	6.6	8.9	1.0	.4	.1	1.1	.0		21.0	
	22+	.0	.0	.1	.8	.1	.1	.0	.0	.0		1.2	
	TOT %	5.8	6.5	16.3	14.7	2.6	1.2	.7	4.6	.0	1.7	53.9	
	TOT OBS												749
	TOT PCT	14.0	15.1	29.4	25.3	3.0	1.8	1.3	8.1	.0	2.0	100.0	

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PERIOD: (PRIMARY) 1922-1971
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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
00&03	.0	.0	.0	2.0	8.1	5.1	2.0	1.0	.0	1.0	19.2	80.8	99
06&09	.0	.0	.0	1.0	7.2	5.2	2.1	.0	.0	.0	15.5	84.5	97
12&15	.0	.0	1.3	.0	5.2	.0	1.3	.0	.0	.0	7.8	92.2	77
18&21	.0	.0	.0	.0	9.7	1.6	1.6	.0	.0	.0	12.9	87.1	62
TOT	0	0	1	3	25	11	6	1	0	1	48	287	335
PCT	.0	.0	.3	.9	7.5	3.3	1.8	.3	.0	.3	14.3	85.7	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
00&03	.0	.0	1.8	.6	32.7	64.9	168
06&09	.0	1.2	1.2	.4	46.6	50.6	253
12&15	.6	.0	.6	.0	40.3	58.5	159
18&21	.0	.0	.0	.0	56.9	43.1	202
TOT	1	3	7	2	352	417	782
PCT	.1	.4	.9	.3	45.0	53.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	2.0	17.3	80.6	98
06&09	.0	.0	2.2	15.6	82.2	90
12&15	.0	1.4	1.4	6.8	91.8	73
18&21	.0	.0	.0	13.6	86.4	59
TOT	0	1	5	44	271	320
PCT	.0	.3	1.6	13.8	84.7	100.0

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
80/84	.0	.0	.0	.4	.2	.2	.0	.0	4	.7
75/79	.0	.2	.2	1.7	6.7	10.2	4.3	3.3	143	26.4
70/74	.0	.4	.4	2.0	14.2	24.2	15.9	7.9	352	65.1
65/69	.0	.0	.2	.9	.6	1.5	2.2	2.0	40	7.4
60/64	.0	.0	.0	.2	.0	.0	.0	.2	2	.4
TOTAL	0	3	4	28	117	195	121	73	541	100.0
PCT	.0	.6	.7	5.2	21.6	36.0	22.4	13.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.3	.2	.0	.0	.0	.2	.0	.0
4.4	4.7	7.6	4.0	.4	.4	.6	3.7	.0	.7
9.8	11.2	20.7	16.4	2.1	1.0	.4	2.7	.0	.7
.6	.3	3.0	2.1	.4	.4	.2	.0	.0	.4
.0	.0	.1	.1	.0	.2	.0	.0	.0	.0
14.8	16.2	31.8	22.8	2.9	2.0	1.1	6.6	.0	1.8

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	82	81	79	74	70	67	63	74.3	200
06&09	84	80	78	74	69	66	64	73.7	295
12&15	77	76	75	72	69	68	66	72.2	182
18&21	80	78	76	72	68	65	65	71.9	248
TOT	84	80	78	73	69	66	63	73.1	925

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	7.3	29.0	37.1	16.1	10.5	74	124
06&09	.0	7.4	25.7	33.7	20.0	13.1	75	175
12&15	.0	4.0	16.8	41.6	25.6	12.0	77	125
18&21	.0	6.3	13.3	34.3	27.3	18.9	78	143
TOT	0	36	121	206	126	78	76	567

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.0	.4	.4	.0	4	.0	.7
6	.0	.0	.0	.2	.7	.2	6	.0	1.1
5	.0	.0	.0	.5	1.2	.0	10	.0	1.8
4	.0	.0	.4	2.1	1.2	.0	21	.0	3.7
3	.0	.0	.7	3.9	1.1	.0	32	.0	5.7
2	.0	.0	2.5	8.0	2.3	.0	72	.0	12.8
1	.0	.0	3.0	10.1	.5	.0	79	.2	13.9
0	.0	.4	5.5	9.2	.5	.0	88	.2	15.5
-1	.0	.0	8.2	7.6	.0	.0	89	.0	15.8
-2	.0	.4	6.9	2.5	.0	.0	55	.0	9.8
-3	.0	.7	4.4	1.8	.0	.0	39	.0	6.9
-4	.0	.7	3.4	2.1	.0	.0	35	.0	6.2
-5	.0	.7	1.1	.4	.0	.0	12	.0	2.1
-6	.0	1.1	1.1	.0	.0	.0	12	.0	2.1
-7/-8	.2	.2	.4	.0	.2	.0	5	.0	.9
-9/-10	.2	.0	.2	.0	.0	.0	2	.0	.4
-11/-13	.0	.0	.2	.0	.0	.0	1	.0	.2
TOTAL	2	23	213	275	48	2	563	2	561
PCT	.4	4.1	37.8	48.8	8.5	.4	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.3	.0	.0	.0	.0	1.8
1-2	.5	1.3	.4	.0	.0	.0	2.2
3-4	.0	.5	.5	.0	.0	.0	1.0
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.0	3.1	1.3	.0	.0	.0	5.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.1	.0	.0	.0	.0	1.6
1-2	.0	4.5	2.4	.0	.0	.0	6.9
3-4	.0	2.5	1.0	.0	.0	.0	3.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.5	8.1	4.0	.0	.0	.0	12.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.5	9.3	3.6	.0	.0	.0	13.4
3-4	.0	6.5	3.4	.0	.0	.0	9.9
5-6	.0	1.4	5.0	.0	.0	.0	6.4
7	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	1.0	.0	.0	.0	1.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.4	.0	.0	.0	.0	.4
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
TOT PCT	.5	18.5	13.6	.0	.0	.0	32.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	3.5	2.2	.0	.0	.0	5.7
3-4	.0	4.5	4.5	1.0	.0	.0	9.9
5-6	.0	.1	8.6	.0	.0	.0	8.7
7	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.5	.0	.5
17-19	.0	.1	.0	.0	.0	.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
TOT PCT	.0	8.8	16.3	1.4	.5	.0	27.1

OCTOBER

PERIOD: (OVER-ALL) 1963-1971

AREA 0004 ROCKHAMPTON
23.25 152.2E

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	.5	.0	.0	.0	.0	1.4
1-2	.0	1.2	.4	.0	.0	.0	1.6
3-4	.0	1.0	1.7	.0	.0	.0	2.7
5-6	.0	.4	.5	.0	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.0	3.0	2.5	.5	.0	.0	7.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.5	.6	.0	.0	.0	1.1
3-4	.0	1.0	.6	.0	.0	.0	1.6
5-6	.0	.0	.0	.5	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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	1.4	1.2	.5	.0	.0	3.1

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.4	.5	.0	.0	.0	.0	.8
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	.5	.0	.0	.0	.0	.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.5	.0	.0	.0	.0	.5	
1-2	.6	1.9	.6	.0	.0	.0	3.1	
3-4	.0	1.4	1.4	.0	.0	.0	2.9	
5-6	.0	.0	.5	.0	.0	.0	.5	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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+	.6	3.9	2.5	.0	.0	.0	7.0	95.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.7	4.8	.0	.0	.0	.0	11.4	
1-2	2.9	22.4	10.0	.0	.0	.0	35.2	
3-4	.0	17.1	12.9	1.0	.0	.0	31.0	
5-6	.0	1.9	14.8	.5	.0	.0	17.1	
7	.0	.0	2.4	.0	.0	.0	2.4	
8-9	.0	.0	.0	1.0	.0	.0	1.0	
10-11	.0	.0	1.0	.0	.0	.0	1.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.5	.0	.5	
17-19	.0	.5	.0	.0	.0	.0	.5	
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	
TOT PCT	9.5	46.7	41.0	2.4	.5	.0	100.0	210

PERIOD: (OVER-ALL) 1950-1971

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	15.8	16.3	7.5	1.3	.4	1.7	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	108	3
6-7	.0	3.3	10.8	14.6	4.2	1.7	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	5
8-9	.0	.8	2.1	1.7	2.9	1.3	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	6
10-11	.0	.0	.0	.4	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
12-13	.0	.0	.8	.8	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
>13	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	2.1	1.3	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	2
TOTAL	9	51	74	62	23	9	8	1	2	1	0	0	0	0	0	0	0	0	0	240	4
PCT	3.8	21.3	30.8	25.8	9.6	3.8	3.3	.4	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1922-1971
(OVER-ALL) 1884-1971

AREA 0004 ROCKHAMPTON
23.25 152.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.8	.0	.0	.0	.0	.0	.8	.0	4.2	.0	.0	3.2	.0		91.8
NE	3.3	2.2	.0	.0	.0	.0	.0	5.5	1.1	1.1	.0	.0	.6	.0		91.7
E	.6	4.5	.3	.0	.0	.0	.0	5.4	1.1	1.1	.0	.0	3.6	.0		89.4
SE	.7	3.5	.4	.0	.0	.0	.0	4.6	1.7	.2	.0	.0	.7	.7		92.1
S	.0	.0	.0	.0	.0	.0	.0	.0	4.1	4.1	.0	.0	16.2	.0		75.7
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22.2	.0		77.8
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.9	.0	.0	.0	.0		87.1
NW	2.8	1.8	.0	.0	.0	.0	.0	4.6	1.4	1.4	.0	.0	11.4	.0		81.1
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	14.3	.0	.0	.0	.0	.0		85.7
TOT PCT	1.1	2.8	.2	.0	.0	.0	.0	4.1	1.3	1.6	.0	.0	3.8	.2		89.2
TOT OBS:	611															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.4	2.8	.0	.0	.0	.0	.0	4.1	2.1	.0	.0	.0	6.9	.7		86.2
06&09	.5	3.1	.5	.0	.0	.0	.0	4.1	.5	1.0	.0	.0	4.1	.0		90.8
12&15	1.5	1.5	.0	.0	.0	.0	.0	3.1	.8	4.6	.0	.0	3.8	.0		87.7
18&21	1.2	3.1	.0	.0	.0	.0	.0	4.3	1.9	1.2	.0	.0	1.2	.0		91.4
TOT PCT	1.1	2.7	.2	.0	.0	.0	.0	3.9	1.3	1.6	.0	.0	3.9	.2		89.3
TOT OBS:	633															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	10.0	4.2	.3	.0	.0		15.7	8.9	23.6	18.2	15.4	10.6	21.2	10.4	15.2	11.3
NE	2.9	11.4	2.1	.0	.0	.0		16.4	7.0	8.8	17.0	14.6	22.8	11.3	25.0	18.6	12.7
E	1.2	15.1	11.6	1.4	.0	.0		29.2	11.2	23.3	26.1	23.3	35.0	32.9	34.8	31.4	32.0
SE	.8	7.0	11.3	2.0	.0	.0		21.1	13.5	17.0	17.6	27.2	24.4	24.0	20.7	16.1	20.0
S	.1	2.2	1.0	.3	.0	.0		3.6	10.4	3.1	9.1	9.7	.0	1.0	.6	4.3	6.0
SW	.3	.3	.2	.0	.0	.0		.7	8.9	.0	1.1	.0	.0	.0	.0	1.4	3.3
W	.1	.6	.3	.0	.0	.0		1.0	7.8	1.7	.0	1.7	.0	.0	.0	2.1	.7
NW	.9	5.7	4.0	.1	.0	.0		10.7	10.3	22.4	8.5	12.3	7.2	9.6	7.3	8.7	8.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0	.0	2.3	1.9	.0	.0	1.2	2.1	5.3
TOT OBS	73	416	277	32	0	0	798		10.3	88	88	161	90	73	82	141	75
TOT PCT	9.1	52.1	34.7	4.0	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.5	9.4	.8	.0	.0		15.7	8.9	20.9	13.6	15.5	13.9
NE	8.4	7.6	.4	.0	.0		16.4	7.0	12.9	17.5	18.5	16.6
E	5.2	18.8	4.8	.4	.0		29.2	11.2	24.7	27.5	33.9	31.6
SE	2.7	10.6	7.5	.3	.0		21.1	13.5	17.3	26.2	22.3	17.5
S	1.2	1.8	.5	.1	.0		3.6	10.4	6.1	2.4	.8	4.9
SW	.3	.3	.2	.0	.0		.7	8.9	.6	.0	.0	2.1
W	.4	.4	.1	.0	.0		1.0	7.8	.9	1.1	.0	1.6
NW	2.8	6.1	1.8	.0	.0		10.7	10.3	15.5	10.5	8.4	8.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	1.1	1.2	.6	3.2
TOT OBS	224	439	128	7	0	798		10.3	176	251	155	216
TOT PCT	28.1	55.0	16.0	.9	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1927-1971
(OVER-ALL) 1884-1971

AREA 0004 ROCKHAMPTON
23.25 152.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.1	5.1	52.3	37.5	4.0	.0	.0	10.2	100.0	176
06&09	1.2	9.2	49.0	36.3	4.4	.0	.0	10.6	100.0	251
12&15	.6	6.5	49.7	37.4	5.8	.0	.0	11.0	100.0	155
18&21	3.2	8.3	57.4	28.7	2.3	.0	.0	9.4	100.0	216
TOT	13	60	416	277	32	0	0	10.3		798
PCT	1.6	7.5	52.1	34.7	4.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	10.1	4.1	5.4	.7		3.2
NE	8.2	2.2	1.0	1.6		2.6
E	11.9	8.7	3.5	1.6		3.1
SE	7.4	4.4	8.4	.5		3.7
S	2.2	.3	.5	.5		3.1
SW	.0	.4	.4	.0		4.5
W	.6	.3	.9	.3		4.7
NW	7.1	2.7	2.2	1.[illegible]		2.8
VAR	.0	.0	.0	.0		.0
CALM	.4	.0	.4	.0		3.5
TOT OBS	134	64	63	18	279	3.2
TOT PCT	48.0	22.9	22.6	6.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.4	.6	1.4	1.0	.4	.0	.0	.0	16.6	
NE	.0	.0	.4	.4	.7	.0	.0	.0	.0	.0	11.6	
E	.0	.0	.3	.6	1.0	.6	.0	.0	.0	.0	23.2	
SE	.0	.0	.2	1.3	2.2	.9	.7	.0	.0	.0	15.5	
S	.0	.0	.3	.3	.0	.3	.0	.0	.0	.0	2.8	
SW	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	
W	.0	.0	.0	.0	.6	.3	.0	.0	.0	.0	1.2	
NW	.0	.0	.0	1.2	.1	.2	.0	.0	.0	.0	11.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	
TOT OBS	0	0	4	12	19	9	3	0	0	0	232	279
TOT PCT	.0	.0	1.4	4.3	6.8	3.2	1.1	.0	.0	.0	83.2	100.0

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 >50YD	* OR >0
* OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
* OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
* OR >3500	.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >2000	3.5	3.9	4.2	4.2	4.2	4.2	4.2	4.2
* OR >1000	9.5	10.6	11.0	11.0	11.0	11.0	11.0	11.0
* OR >600	12.4	15.2	15.5	15.5	15.5	15.5	15.5	15.5
* OR >300	12.7	16.3	17.0	17.0	17.0	17.0	17.0	17.0
* OR >150	12.7	16.3	17.0	17.0	17.0	17.0	17.0	17.0
* OR > 0	12.7	16.3	17.0	17.0	17.0	17.0	17.0	17.0
TOTAL	36	46	48	48	48	48	48	48

TOTAL NUMBER OF OBS: 283

PCT FREQ NH <5/8: 83.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.3	22.7	23.1	14.3	7.5	4.2	4.5	5.2	4.2	.0	308

PERIOD: (PRIMARY) 1922-1971
(OVER-ALL) 1884-1971

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.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	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.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	
	NO PCP	.0	.1	1.1	.0	.5	.2	.0	.0	.0	.0	1.8	
	TOT %	.0	.1	1.1	.0	.5	.2	.0	.0	.0	.0	1.8	
2<5	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.3	
5<10	PCP	.0	.5	1.5	.7	.0	.0	.0	.3	.0	.0	2.9	
	NO PCP	5.7	7.9	14.5	11.7	1.0	.4	.5	5.2	.0	.8	47.6	
	TOT %	5.7	8.3	16.0	12.3	1.0	.4	.5	5.5	.0	.8	50.6	
10+	PCP	.1	.3	.1	.2	.0	.0	.0	.2	.0	.0	1.0	
	NO PCP	9.7	5.9	12.6	9.6	1.5	.2	.8	5.8	.0	.3	46.3	
	TOT %	9.8	6.2	12.7	9.8	1.5	.2	.8	6.0	.0	.3	47.3	
	TOT OBS												611
	TOT PCT	15.5	14.8	29.7	22.3	3.0	.7	1.3	11.5	.0	1.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.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	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.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	
	4-10	.0	.0	.5	.0	.2	.0	.0	.0	.0		.6	
	11-21	.0	.1	.4	.0	.0	.2	.0	.0	.0		.6	
	22+	.0	.0	.2	.0	.3	.0	.0	.0	.0		.5	
	TOT %	.0	.1	1.0	.0	.5	.2	.0	.0	.0	.0	1.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.2	.0	.5	.0	.0	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.0	.5	.0	.0	.0	.0	.0	.0	.6	
5<10	0-3	.3	1.7	.7	.8	.1	.3	.2	.3	.0	1.1	5.4	
	4-10	3.5	4.5	6.0	3.4	.6	.0	.2	2.6	.0		20.8	
	11-21	1.5	1.4	7.2	5.8	.3	.1	.1	2.3	.0		18.7	
	22+	.2	.0	1.1	1.6	.0	.0	.0	.1	.0		3.0	
	TOT %	5.6	7.7	15.1	11.6	.9	.4	.4	5.2	.0	1.1	47.9	
10+	0-3	.9	.9	.3	.1	.0	.0	.0	.5	.0	.9	3.6	
	4-10	6.0	5.8	8.5	3.7	1.4	.2	.5	3.0	.0		29.2	
	11-21	2.7	.4	4.2	5.8	.5	.0	.3	2.3	.0		16.1	
	22+	.0	.0	.2	.8	.0	.0	.0	.0	.0		.9	
	TOT %	9.6	7.1	13.2	10.4	1.8	.2	.8	5.8	.0	.9	49.8	
	TOT OBS												664
	TOT PCT	15.1	15.0	29.3	22.4	3.2	.8	1.2	11.0	.0	2.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1922-1971
(OVER-ALL) 1884-1971

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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
00&03	.0	.0	1.1	3.4	5.7	2.3	1.1	.0	.0	.0	13.8	86.2	87
06&09	.0	.0	2.4	3.6	6.0	7.2	2.4	.0	.0	.0	21.7	78.3	83
12&15	.0	.0	.0	5.6	4.2	.0	.0	.0	.0	.0	9.9	90.1	71
18&21	.0	.0	1.7	5.1	10.2	1.7	.0	.0	.0	.0	18.6	81.4	59
TOT	0	0	4	13	19	9	3	0	0	0	48	252	300
PCT	.0	.0	1.3	4.3	6.3	3.0	1.0	.0	.0	.0	16.0	84.0	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
00&03	.0	.0	2.6	.0	37.0	60.4	154
06&09	.0	.0	2.3	1.4	52.6	43.7	215
12&15	.0	.0	.7	.0	45.7	53.6	138
18&21	.0	.0	1.1	.6	56.4	41.9	179
TOT	0	0	12	4	334	336	686
PCT	.0	.0	1.7	.6	48.7	49.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.2	4.7	9.4	85.9	85
06&09	.0	2.6	7.7	15.4	76.9	78
12&15	.0	.0	6.3	4.7	89.1	64
18&21	.0	1.8	7.1	12.5	80.4	56
TOT	0	4	18	30	235	283
PCT	.0	1.4	6.4	10.6	83.0	100.0

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
90/94	.0	.0	.0	.2	.2	.0	.0	.0	2	.4
85/89	.0	.0	.0	.2	.2	.2	.0	.0	3	.6
80/84	.0	.0	.2	.2	2.5	4.8	1.2	.6	49	9.5
75/79	.0	.0	.0	1.7	12.0	27.9	17.4	4.3	327	63.4
70/74	.0	.0	.0	1.0	7.4	9.5	5.6	1.9	131	25.4
65/69	.0	.0	.0	.2	.0	.6	.0	.0	4	.8
TOTAL	0	0	1	18	115	222	125	35	516	100.0
PCT	.0	.0	.2	3.5	22.3	43.0	24.2	6.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.0	.0	*	.1	.0	.0	.0	.0	.0
.1	.0	.0	.2	.0	.0	.2	.1	.0	.0
2.4	1.4	2.5	1.0	.1	.0	.1	1.8	.0	.2
10.9	11.7	18.3	10.7	1.2	.4	.9	8.3	.0	1.0
1.9	2.2	9.4	10.2	1.1	.0	.0	.4	.0	.2
.0	.0	.2	.2	.3	.1	.0	.0	.0	.0
15.5	15.3	30.3	22.3	2.9	.5	1.2	10.7	.0	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	86	85	82	77	73	71	71	77.3	180
06&09	90	86	82	77	73	72	70	76.8	252
12&15	82	81	78	75	72	69	68	74.9	158
18&21	81	80	78	75	72	69	67	75.0	219
TOT	90	84	81	76	72	70	67	76.1	809

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	7.1	26.2	42.9	22.2	1.6	73	126
06&09	.0	4.8	25.3	44.0	19.9	6.0	75	166
12&15	.0	.9	16.4	40.9	31.8	10.0	78	110
18&21	.0	1.5	16.5	41.4	28.6	12.0	78	133
TOT	0	20	115	227	134	39	76	535

PERIOD: (PRIMARY) 1922-1971
(OVER-ALL) 1884-1971

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	.0	.0	.2	1	.0	.2
9/10	.0	.0	.0	.2	.0	.2	.2	3	.0	.6
7/8	.0	.0	.0	.0	.2	.2	.0	2	.0	.4
6	.0	.0	.2	.0	1.0	.0	.0	6	.0	1.1
5	.0	.2	.2	.6	.8	.2	.0	10	.0	1.9
4	.0	.0	.4	1.3	.6	.2	.0	13	.0	2.5
3	.0	.0	.6	3.6	1.7	.0	.0	31	.0	5.9
2	.0	.0	1.7	6.3	1.0	.0	.0	47	.0	9.0
1	.0	.4	5.9	5.5	.8	.0	.0	66	.0	12.6
0	.0	.4	10.3	8.4	.2	.0	.0	101	.0	19.3
-1	.0	.4	10.3	6.1	.0	.0	.0	88	.0	16.8
-2	.0	1.0	9.6	2.7	.0	.0	.0	69	.0	13.2
-3	.0	1.1	6.1	1.0	.0	.0	.0	43	.0	8.2
-4	.0	1.0	2.5	.4	.2	.0	.0	21	.0	4.0
-5	.0	.4	1.3	.6	.0	.0	.0	12	.0	2.3
-6	.0	.8	.0	.2	.0	.0	.0	5	.0	1.0
-7/-8	.0	.4	.0	.0	.0	.0	.0	2	.0	.4
-9/-10	.4	.2	.0	.0	.0	.0	.0	3	.0	.6
TOTAL	2	32	257	193	33	4	2	523	0	523
PCT	.4	6.1	49.1	36.9	6.3	.8	.4	100.0		100.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.8	1.8	.0	.0	.0	.0	3.6
1-2	.5	7.5	.5	.0	.0	.0	8.4
3-4	.0	3.5	1.8	.0	.0	.0	5.3
5-6	.0	.0	2.0	.0	.0	.0	2.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	2.3	12.8	4.3	.0	.0	.0	19.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.6	.0	.0	.0	.0	1.5
1-2	.0	7.6	.1	.0	.0	.0	7.7
3-4	.0	3.5	.5	.0	.0	.0	4.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.9	11.7	.6	.0	.0	.0	13.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.6	.0	.0	.0	.0	2.0
1-2	.0	10.1	2.0	.0	.0	.0	12.2
3-4	.0	4.2	3.0	.0	.0	.0	7.2
5-6	.0	.9	2.2	.5	.0	.0	3.5
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.5	.0	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.5	16.8	8.1	.5	.0	.0	25.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	4.0	1.0	.0	.0	.0	5.0
3-4	.0	1.1	4.9	.0	.0	.0	6.0
5-6	.0	.0	4.7	.9	.0	.0	5.6
7	.0	.0	1.9	.5	.0	.0	2.4
8-9	.9	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.0	.9	.0	.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
TOT PCT	.0	6.1	12.5	2.7	.0	.0	21.4

PERIOD: (OVER-ALL) 1963-1971

NOVEMBER

AREA 0004 ROCKHAMPTON
23.2S 152.2E

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	1.5	.0	.0	.0	.0	1.5
3-4	.0	.8	.8	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	2.7	1.1	.0	.0	.0	3.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.5	.0	.0	.0	.0	.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.5	.0	.0	.0	.0	.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.8	.0	.0	.0	.0	.8
3-4	.0	.0	.8	.0	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.8	.8	.0	.0	.0	1.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.4	.5	.0	.0	.0	.0	1.8	
1-2	.0	3.5	.5	.0	.0	.0	4.0	
3-4	.0	1.4	3.3	.0	.0	.0	4.7	
5-6	.0	.9	2.0	.0	.0	.0	3.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	1.4	6.3	5.8	.0	.0	.0	13.4	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.1	5.8	.0	.0	.0	.0	12.9	
1-2	.4	34.8	4.0	.0	.0	.0	39.3	
3-4	.0	14.3	14.7	.0	.0	.0	29.0	
5-6	.0	1.8	10.7	1.3	.0	.0	13.8	
7	.0	.0	2.7	.4	.0	.0	3.1	
8-9	.0	.0	.4	.4	.0	.0	.9	
10-11	.0	.0	.0	.9	.0	.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	
								224
TOT PCT	7.6	56.7	32.6	3.1	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1971

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	1.6	14.1	16.4	9.8	2.7	.8	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	3
6-7	.0	2.3	8.6	8.6	5.5	1.2	.8	.4	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	5
8-9	.0	.4	2.7	4.7	2.3	2.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	6
10-11	.0	1.2	.0	.4	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
12-13	.0	.0	.8	.4	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
>13	.0	.0	.0	.8	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
INDET	.4	.4	2.7	2.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	4
TOTAL	5	47	80	69	30	13	3	3	4	2	0	0	0	0	0	0	0	0	0	256	4
PCT	2.0	18.4	31.3	27.0	11.7	5.1	1.2	1.2	1.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1916-1971
(OVER-ALL) 1880-1971

AREA 0004 ROCKHAMPTON
23.2S 152.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.3	4.0	.6	.0	.0	.0	.0	7.9	.0	2.4	.9	.0	3.6	.0	85.1
NE	7.0	2.9	3.5	.0	.0	.0	.0	8.4	.0	2.3	1.2	.0	.0	.0	88.2
E	5.1	9.5	.3	.0	.0	.0	.3	15.2	1.0	.6	.0	.0	.6	.0	83.2
SE	1.5	10.4	1.5	.0	.0	.0	.7	14.1	.4	.0	.0	.0	.7	.0	84.8
S	6.3	14.6	.0	.0	.0	.0	6.3	27.1	3.1	.0	.0	.0	.0	.0	69.8
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	16.7	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0	83.3
NW	4.6	.7	.0	.0	.0	.0	.0	5.3	.0	.0	.7	.0	2.6	.0	91.4
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	.0	.0	100.0
TOT PCT	3.5	7.3	1.1	.0	.0	.0	.5	12.4	.5	.9	.4	.0	1.1	.0	84.8
TOT OBS:	547														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.0	5.6	1.6	.0	.0	.0	.0	11.2	.8	.0	.8	.0	.8	.0	86.4
06&09	3.6	7.7	1.2	.0	.0	.0	.6	13.0	.0	.0	.6	.0	1.8	.0	84.6
12&15	2.6	6.0	.0	.0	.0	.0	.9	9.5	.9	5.2	.0	.0	1.7	.0	83.6
18&21	3.3	8.7	1.3	.0	.0	.0	.7	14.0	.7	.0	.0	.0	.0	.0	85.3
TOT PCT	3.4	7.1	1.1	.0	.0	.0	.5	12.1	.5	1.1	.4	.0	1.1	.0	85.0
TOT OBS:	560														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.8	8.4	4.9	.0	.0	.0		15.1	9.0	11.9	14.2	17.0	13.9	18.0	15.0	15.8	13.6
NE	1.8	11.5	3.1	*	.0	.0		16.3	7.6	12.5	19.9	13.5	20.5	15.6	15.6	18.8	14.8
E	.8	16.7	10.6	1.3	.0	.0		29.3	10.8	37.8	15.9	25.3	30.7	37.5	31.3	34.6	25.6
SE	1.1	9.2	10.8	3.3	.1	.0		24.5	13.6	21.2	25.0	32.3	22.3	18.8	24.4	18.6	28.1
S	.1	1.6	1.6	.5	.0	.0		3.7	13.1	4.5	6.3	4.4	1.8	5.1	1.9	2.8	3.1
SW	.0	.2	.2	.0	.0	.0		.4	10.9	.0	1.1	.2	.6	.4	.0	.8	.0
W	.2	.2	.5	.0	.0	.0		.9	10.0	.0	2.3	1.3	.6	.0	1.3	.4	1.2
NW	.7	3.4	4.2	.0	.0	.0		8.4	10.2	12.2	13.1	4.7	9.6	4.7	10.6	6.8	8.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0	.0	2.3	1.3	.0	.0	.0	1.6	4.9
TOT OBS	58	385	270	39	1	0	753		10.6	78	88	154	83	64	80	125	81
TOT PCT	7.7	51.1	35.9	5.2	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.0	8.8	1.3	.0	.0		15.1	9.0	13.1	15.9	16.3	14.9
NE	7.2	8.8	.2	.0	.0		16.3	7.6	16.4	15.9	15.6	17.1
E	6.3	18.5	4.4	.1	.0		29.3	10.8	26.2	27.2	34.0	31.1
SE	3.0	12.6	8.3	.3	.1		24.5	13.6	23.2	28.8	21.9	22.3
S	.6	1.9	1.1	.1	.0		3.7	13.1	5.4	3.5	3.3	2.9
SW	.2	.1	.1	.0	.0		.4	10.9	.6	.3	.2	.5
W	.4	.4	.1	.0	.0		.9	10.0	1.2	1.1	.7	.7
NW	1.9	6.2	.3	.0	.0		8.4	10.2	12.7	6.4	8.0	7.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	1.2	.8	.0	2.9
TOT OBS	196	432	120	4	1	753		10.6	166	237	144	206
TOT PCT	26.0	57.4	15.9	.5	.1		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1916-1971
(OVER-ALL) 1880-1971

AREA 0004 ROCKHAMPTON
23.2S 152.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.2	6.6	45.2	41.6	5.4	.0	.0	11.0	100.0	166
06&09	.8	4.6	53.2	34.2	7.2	.0	.0	11.0	100.0	237
12&15	.0	7.6	52.1	36.1	3.5	.7	.0	10.7	100.0	144
18&21	2.9	7.3	52.9	33.0	3.9	.0	.0	9.7	100.0	206
TOT	10	48	385	270	39	1	0	10.6		753
PCT	1.3	6.4	51.1	35.9	5.2	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.9	2.6	3.6	2.6		3.8
NE	6.3	5.0	2.3	.7		3.1
E	11.3	12.6	8.0	3.7		3.9
SE	5.1	11.3	4.9	3.3		4.1
S	1.5	1.3	1.9	.6		4.5
SW	.1	.0	.0	.1		5.0
W	.0	.0	.0	.0		.0
NW	3.2	1.1	.8	.3		2.7
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	79	80	51	27	237	3.8
TOT PCT	33.3	33.8	21.5	11.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.6	.0	.4	.8	.7	.3	.0	.4	.0	.0	11.4	
NE	.0	.0	.1	.5	.6	.0	.0	.0	.0	.0	13.1	
E	.0	.0	.3	1.4	3.5	1.6	.0	.0	.0	.0	28.8	
SE	.0	.0	.0	.6	2.8	.1	.2	.0	.0	.0	20.7	
S	.0	.0	.4	.4	.6	.0	.6	.0	.0	.0	3.2	
SW	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.2	.0	.0	.0	.0	.1	.0	.0	.0	.0	5.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	2	0	3	9	20	5	2	1	0	0	195	237
TOT PCT	.8	.0	1.3	3.8	8.4	2.1	.8	.4	.0	.0	82.3	100.0

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 >5OYD	• OR >0
• OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
• OR >5000	.4	.4	.4	.4	.4	.4	.4	.4
• OR >3500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
• OR >2000	2.9	3.3	3.3	3.3	3.3	3.3	3.3	3.3
• OR >1000	9.6	11.7	11.7	11.7	11.7	11.7	11.7	11.7
• OR >600	12.1	15.1	15.5	15.5	15.5	15.5	15.5	15.5
• OR >300	12.1	15.5	16.7	16.7	16.7	16.7	16.7	16.7
• OR >150	12.1	15.5	16.7	16.7	16.7	16.7	16.7	16.7
• OR > 0	12.6	15.9	17.2	17.6	17.6	17.6	17.6	17.6
TOTAL	30	38	41	42	42	42	42	42

TOTAL NUMBER OF OBS: 239

PCT FREQ NH <5/8: 82.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
4.6	21.7	22.8	23.2	9.1	3.0	3.4	3.0	8.4	.8	263

DECEMBER

PERIOD: (PRIMARY) 1916-1971
(OVER-ALL) 1880-1971

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.5	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.3	.0	.0	.0	.0	.0	.0	*	.0	.0	.4	
	TOT %	.3	.0	.0	.0	.0	.0	.0	*	.0	.0	.4	
2<5	PCP	.0	*	.3	*	.2	.0	.0	.2	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	*	.3	*	.2	.0	.0	.2	.0	.0	.7	
5<10	PCP	.0	1.1	4.2	2.9	.8	.0	.1	.1	.0	.0	10.1	
	NO PCP	7.1	7.1	8.3	10.3	1.5	.3	.3	3.8	.0	.5	39.3	
	TOT %	8.0	8.2	12.5	13.2	2.3	.3	.4	4.0	.0	.5	49.4	
10+	PCP	.3	*	.3	.2	.2	.0	.0	*	.0	.0	1.1	
	NO PCP	6.4	7.2	18.3	11.2	1.7	.1	.2	2.7	.0	.0	47.7	
	TOT %	6.7	7.3	18.6	11.4	1.9	.1	.2	2.7	.0	.0	48.8	
	TOT OBS												547
	TOT PCT	15.0	15.9	31.4	25.0	4.4	.4	.5	6.9	.0	.5	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.2	.1	.1	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.1	.0	.0	.0	.0	.0	.0	*	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.0	.0	.0	.0	.0	.0	*	.0	.0	.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	.1	.0	.2	.0	.0	.0	.0		.3	
	11-21	.0	.0	.1	*	.0	.0	.0	.2	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.3	*	.2	.0	.0	.2	.0	.0	.7	
5<10	0-3	.7	.4	.7	.8	.0	.0	.0	.3	.0	.5	3.4	
	4-10	3.7	5.9	5.2	6.1	1.1	.1	.0	.8	.0		22.9	
	11-21	3.0	1.6	5.3	4.5	.6	.2	.3	2.5	.0		18.0	
	22+	.0	.0	.6	1.4	.7	.0	.0	.0	.0		2.7	
	TOT %	7.4	7.9	11.8	12.8	2.3	.3	.3	3.7	.0	.5	46.9	
10+	0-3	.7	1.2	.3	.2	.0	.0	.0	.0	.0	.2	2.5	
	4-10	4.1	5.6	11.6	3.1	.4	*	.0	1.2	.0		26.1	
	11-21	2.1	1.5	7.3	7.2	1.4	*	.3	1.3	.0		21.2	
	22+	.0	*	.3	1.2	.0	.0	.0	.0	.0		1.5	
	TOT %	6.8	8.4	19.5	11.6	1.8	.1	.3	2.6	.0	.2	51.3	
	TOT OBS												595
	TOT PCT	14.5	16.6	31.6	24.9	4.3	.3	.7	6.4	.0	.7	100.0	

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PERIOD: (PRIMARY) 1916-1971
(OVER-ALL) 1880-1971

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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
00&03	.0	.0	2.6	2.6	7.9	3.9	.0	1.3	.0	.0	18.4	81.6	76
06&09	1.4	.0	1.4	5.6	5.6	1.4	1.4	.0	.0	.0	16.7	83.3	72
12&15	.0	.0	.0	1.6	11.1	1.6	1.6	.0	.0	.0	15.9	84.1	63
18&21	2.2	.0	.0	4.4	6.7	.0	.0	.0	.0	.0	13.3	86.7	45
TOT	2	0	3	9	20	5	2	1	0	0	42	214	256
PCT	.8	.0	1.2	3.5	7.8	2.0	.8	.4	.0	.0	16.4	83.6	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
00&03	.8	.8	.0	2.3	37.1	59.1	132
06&09	.0	.5	.5	.5	49.5	48.9	190
12&15	.0	.8	.8	.0	37.4	61.0	123
18&21	.6	.0	.0	.0	61.3	38.0	163
TOT	2	3	2	4	289	308	608
PCT	.3	.5	.3	.7	47.5	50.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	4.3	7.1	14.3	78.6	70
06&09	1.5	3.0	9.0	9.0	82.1	67
12&15	.0	.0	1.6	14.8	83.6	61
18&21	2.4	2.4	7.3	7.3	85.4	41
TOT	2	6	15	28	196	239
PCT	.8	2.5	6.3	11.7	82.0	100.0

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
85/89	.0	.0	.2	.0	.0	.9	.5	.0	7	1.6
80/84	.0	.0	.2	.5	2.5	8.8	7.2	2.9	98	22.2
75/79	.0	.0	.0	1.8	12.0	29.6	14.9	8.8	297	67.2
70/74	.0	.0	.0	1.1	2.3	2.0	.5	3.2	40	9.0
TOTAL	0	0	2	15	74	183	102	66	442	100.0
PCT	.0	.0	.5	3.4	16.7	41.4	23.1	14.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.9	.0	.0	.0	.0	.0	.1	.3	.0	.2
5.0	4.8	3.3	3.0	.8	.1	.2	5.0	.0	.0
9.6	8.7	23.8	17.6	3.8	.3	.3	2.7	.0	.5
.3	.6	4.9	2.7	.3	.0	.0	.3	.0	.0
15.8	14.0	32.0	23.2	5.0	.3	.7	8.3	.0	.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	86	85	83	78	74	71	70	78.5	167
06&09	88	87	83	78	74	72	71	78.3	236
12&15	84	82	81	77	74	72	70	77.2	147
18&21	87	85	81	77	73	72	70	77.1	209
TOT	88	86	82	78	74	72	70	77.8	759

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	7.6	18.1	46.7	14.3	13.3	75	105
06&09	.0	2.9	19.0	47.4	18.2	12.4	77	137
12&15	.0	2.1	10.6	39.6	32.3	15.6	79	96
18&21	.0	3.4	17.2	32.8	29.3	17.2	79	116
TOT	0	18	75	190	105	66	77	454

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PERIOD: (PRIMARY) 1916-1971
(OVER-ALL) 1880-1971

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.0	.4	.4	4	.0	.9
6	.0	.0	.2	.4	.4	5	.0	1.1
5	.0	.0	.2	.7	.4	6	.2	1.1
4	.0	.2	1.3	1.1	.2	13	.0	2.9
3	.0	.4	3.1	3.6	.2	33	.0	7.4
2	.0	.0	7.4	2.2	.0	43	.0	9.6
1	.0	1.3	9.2	2.9	.0	60	.0	13.5
0	.0	3.8	15.9	1.6	.0	95	.0	21.3
-1	.0	5.6	10.3	.2	.0	73	.2	16.1
-2	.2	6.3	4.7	.2	.0	51	.0	11.4
-3	.0	3.6	2.5	.2	.0	28	.0	6.3
-4	.4	2.5	1.1	.0	.0	18	.0	4.0
-5	.0	1.6	.2	.0	.0	8	.0	1.8
-6	.2	.2	.0	.0	.0	2	.0	.4
-7/-8	.2	.7	.2	.0	.0	5	.0	1.1
-11/-13	.0	.2	.0	.0	.0	1	.0	.2
TOTAL	5	118	253	61	9	446	2	444
PCT	1.1	26.5	56.7	13.7	2.0	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	4.5	1.7	.0	.0	.0	6.2
3-4	.0	2.6	2.6	.0	.0	.0	5.3
5-6	.0	.9	.0	.0	.0	.0	.9
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	8.6	4.9	.0	.0	.0	13.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.8	.0	.0	.0	.0	1.4
1-2	.5	6.7	1.2	.0	.0	.0	8.4
3-4	.0	1.7	1.1	.1	.0	.0	2.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.2	9.2	2.2	.1	.0	.0	12.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.6	.0	.0	.0	.0	2.0
1-2	.0	13.7	.5	.0	.0	.0	14.2
3-4	.0	3.9	6.4	.4	.0	.0	10.8
5-6	.0	.9	5.1	.0	.0	.0	6.1
7	.0	.0	1.4	.5	.0	.0	2.0
8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	20.1	13.9	.9	.0	.0	35.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.0	2.8	2.6	.0	.0	.0	5.4
3-4	.0	1.2	4.6	2.1	.0	.0	7.9
5-6	.0	.1	5.9	.5	.0	.0	6.6
7	.0	.0	3.0	.5	.0	.0	3.6
8-9	.0	.0	.1	1.1	.0	.0	1.2
10-11	.0	.0	.0	.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
TOT PCT	.0	4.9	16.3	4.7	.0	.0	25.9

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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.7	.0	.0	.0	.0	1.7	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.5	1.6	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	.1	.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
TOT PCT	.0	2.2	4.3	.0	.0	.0	6.6	.0	.1	.1	.0	.0	.0	.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.8	.0	.0	.0	1.8	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.6	.0	.0	.0	2.1	
5-6	.0	.0	.5	.0	.0	.0	.5	.0	.1	.5	.0	.0	.0	.7	
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	
TOT PCT	.0	.0	.5	.0	.0	.0	.5	.0	2.2	2.9	.0	.0	.0	5.1	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.6	4.2	.0	.0	.0	.0	5.8	
1-2	.5	30.4	6.8	.0	.0	.0	37.7	
3-4	.0	10.5	17.8	2.6	.0	.0	30.9	
5-6	.0	2.1	13.1	.5	.0	.0	15.7	
7	.0	.0	6.8	1.0	.0	.0	7.9	
8-9	.0	.0	.5	1.0	.0	.0	1.6	
10-11	.0	.0	.0	.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	
TOT PCT	2.1	47.1	45.0	5.8	.0	.0	100.0	191

PERIOD: (OVER-ALL) 1949-1971

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	17.2	14.5	7.5	3.5	.9	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	4
6-7	.0	.9	7.5	7.0	4.8	4.0	3.1	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	6
8-9	.0	.4	2.6	5.7	2.6	1.8	.9	.4	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	35	6
10-11	.0	.0	.0	.9	1.3	.9	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
12-13	.0	.0	.4	.0	.0	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	9
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	1.3	.0	2.2	.4	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	4
TOTAL	4	42	62	49	29	17	16	2	4	1	1	0	0	0	0	0	0	0	0	227	5
PCT	1.8	18.5	27.3	21.6	12.8	7.5	7.0	.9	1.8	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1863-1972

AREA 0004 ROCKHAMPTON
23.2S 152.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.2	2.4	1.1	.0	.0	.0	.0	5.6	1.0	2.4	.4	.0	1.9	.0	88.7
NE	4.1	7.2	1.2	.0	.0	.0	.0	11.6	1.7	1.5	.9	.0	.3	.0	84.7
E	3.7	7.1	.4	.0	.0	.0	*	11.1	1.6	1.0	.3	.0	.8	.1	85.3
SE	2.7	7.4	.6	.0	.0	.0	.1	10.7	2.1	.5	.3	.0	.5	.1	85.8
S	3.9	4.8	.5	.0	.0	.0	.5	9.8	1.3	1.2	.5	.0	2.6	.0	84.7
SW	7.9	5.1	.1	.0	.0	.0	.0	13.1	.4	1.2	.3	.0	2.9	.0	82.8
W	3.3	3.7	.0	.0	.0	.0	.0	6.9	.2	2.5	.0	.0	.9	.0	90.6
NW	2.3	3.3	.4	.0	.0	.0	.0	5.9	.2	.4	.4	.0	1.7	.0	91.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9	1.9	.7	.0	.0	.0	.0	4.6	1.2	.0	.2	.0	3.6	.0	90.5
TOT PCT	2.9	5.6	.6	.0	.0	.0	*	9.2	1.4	1.0	.4	.0	1.1	*	87.0
TOT OBS:	7805														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.6	5.2	.4	.0	.0	.0	.0	8.2	1.3	.1	.3	.0	1.7	.1	88.3
06&09	2.5	5.6	.8	.0	.0	.0	*	8.9	1.2	.6	.7	.0	1.3	.0	87.4
12&15	2.7	5.3	.2	.0	.0	.0	.1	8.3	1.7	2.5	.2	.0	.9	.0	86.7
18&21	3.6	6.4	.8	.0	.0	.0	.1	10.9	1.5	1.2	.5	.0	.6	.0	85.6
TOT PCT	2.9	5.6	.6	.0	.0	.0	*	9.1	1.4	1.0	.4	.0	1.1	*	87.0
TOT OBS:	8067														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	5.2	2.1	.1	.0	.0		8.4	8.1	6.8	7.8	8.8	10.0	8.2	10.6	8.1	7.0
NE	1.3	7.2	1.7	.1	.0	.0		10.4	7.5	6.4	10.2	8.3	12.4	9.8	14.3	11.4	11.5
E	1.5	10.8	8.4	1.3	.1	.0		22.2	11.0	23.7	17.8	20.0	23.9	26.3	24.0	24.8	19.1
SE	1.1	10.5	15.3	3.8	.3	.0		31.0	13.5	33.0	30.8	33.4	30.7	33.8	27.5	27.4	28.1
S	.8	4.6	4.6	.9	.1	*		11.0	12.1	13.2	14.1	12.0	6.8	9.7	7.5	10.4	13.5
SW	.5	2.4	2.0	.2	*	*		5.2	11.5	6.1	6.9	4.7	3.8	2.5	4.4	5.1	7.0
W	.5	1.6	.7	.1	*	.0		2.8	9.3	2.2	3.3	2.8	2.6	2.9	2.6	2.7	3.5
NW	.9	3.6	1.8	.1	*	.0		6.4	8.4	6.8	7.0	3.9	7.7	3.6	6.8	6.1	7.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6							2.6	.0	1.7	2.0	2.1	2.2	3.1	2.2	3.9	3.0
TOT OBS							10868		10.9	1028	1350	2189	1227	893	1169	1857	1155
TOT PCT	10.3	45.8	36.6	6.7	.6	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.5	4.4	.5	*	.0		8.4	8.1	7.3	9.2	9.5	7.7
NE	5.1	4.9	.4	*	.0		10.4	7.5	8.4	9.7	12.2	11.5
E	5.5	12.2	4.1	.4	*		22.2	11.0	20.4	21.4	25.1	22.6
SE	4.3	15.9	9.7	1.1	*		31.0	13.5	31.6	33.8	30.4	27.6
S	2.5	5.8	2.5	.2	*		11.0	12.1	13.8	10.1	8.3	11.6
SW	1.6	2.6	.9	.1	*		5.2	11.5	6.7	4.4	3.8	5.9
W	1.3	1.2	.3	*	*		2.8	9.3	2.9	2.7	2.7	3.0
NW	2.6	3.4	.4	.1	.0		6.4	8.4	7.0	6.5	5.4	6.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.6						2.6	.0	1.9	2.2	2.6	3.6
TOT OBS						10868		10.9	2378	3416	2062	3012
TOT PCT	28.9	50.3	18.7	2.0	.1		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1912-1972
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AREA 0004 ROCKHAMPTON
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.9	6.7	45.1	39.1	6.7	.5	.0	11.2	100.0	2378
06&09	2.2	8.5	45.1	36.5	7.1	.5	.1	11.0	100.0	3416
12&15	2.6	7.3	45.3	37.0	7.2	.7	.0	11.1	100.0	2062
18&21	3.6	8.0	47.7	34.3	5.8	.5	*	10.5	100.0	3012
TOT								10.9		10868
PCT	2.6	7.7	45.8	36.6	6.7	.6	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.7	1.2	1.8	.6		2.9
NE	3.8	1.7	1.4	1.0		3.7
E	8.5	6.1	6.7	2.7		3.9
SE	9.7	9.9	10.6	4.2		4.0
S	4.9	3.0	2.7	1.1		3.5
SW	2.7	.9	.9	.3		3.5
W	1.6	.4	.5	.2		2.6
NW	3.0	1.0	.6	.3		2.4
VAR	.0	.0	.0	.0		.0
CALM	1.8	.1	.3	.1		1.9
TOT OBS					3347	3.6
TOT PCT	39.6	24.3	25.6	10.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.1	.2	.6	.4	.1	*	.0	.0	5.7	
NE	*	.0	.1	.3	.7	.3	.1	*	.0	.0	6.3	
E	.0	.0	.4	1.2	2.8	1.0	.4	*	*	*	18.0	
SE	*	*	.6	2.7	4.4	1.6	.4	*	.1	*	24.5	
S	.0	.1	.2	.6	1.5	.2	.2	*	*	.1	8.9	
SW	.1	*	.1	.1	.2	.2	.1	.0	.0	.1	4.0	
W	.0	*	*	.1	.1	.2	.1	.0	.0	.0	2.2	
NW	*	.0	.0	.1	.1	.1	.1	.0	.0	.0	4.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	*	.1	.1	.1	.0	.0	.0	2.0	
TOT OBS												3347
TOT PCT	.2	.2	1.5	5.4	10.5	4.1	1.5	.2	.1	.2	76.2	100.0

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 >50YD	= OR >0
= OR >6500	.3	.3	.3	.3	.3	.3	.3	.3
= OR >5000	.4	.5	.5	.5	.5	.5	.5	.5
= OR >3500	1.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9
= OR >2000	5.3	5.9	6.0	6.0	6.0	6.0	6.0	6.0
= OR >1000	13.7	16.0	16.4	16.4	16.5	16.5	16.5	16.5
= OR >600	17.4	21.0	21.7	21.8	21.8	21.8	21.8	21.8
= OR >300	17.7	22.0	22.9	23.2	23.2	23.2	23.2	23.2
= OR >150	17.7	22.0	23.1	23.3	23.3	23.3	23.4	23.4
= OR > 0	17.9	22.2	23.2	23.5	23.6	23.6	23.6	23.6

TOTAL NUMBER OF OBS: 3393 PCT FREQ NH <5/8: 76.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
11.3	20.4	18.9	15.7	9.3	6.9	5.9	4.9	6.5	.1	3703

PERIOD: (PRIMARY) 1912-1972
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	*	.0	.0	*	.0	.0	*	
	NO PCP	*	*	*	.0	.0	.0	.0	*	.0	.0	.1	
	TOT %	*	*	*	*	*	.0	.0	*	.0	.0	.1	
1/2<1	PCP	.0	*	*	.1	.1	*	.0	.0	.0	.0	.3	
	NO PCP	*	.1	.1	.1	*	*	.0	*	.0	*	.3	
	TOT %	*	.1	.1	.2	.1	.1	.0	*	.0	*	.6	
1<2	PCP	*	*	.1	*	*	*	.0	*	.0	.0	.1	
	NO PCP	.2	*	.1	.1	.1	*	*	*	.0	*	.6	
	TOT %	.2	*	.2	.1	.1	*	*	*	.0	*	.7	
2<5	PCP	*	*	.1	.2	.1	*	.0	*	.0	*	.5	
	NO PCP	.0	*	*	.1	*	.0	.0	.0	.0	.0	.2	
	TOT %	*	.1	.1	.3	.1	*	.0	*	.0	*	.6	
5<10	PCP	.3	.8	1.7	2.7	.7	.2	.1	.2	.0	.1	7.0	
	NO PCP	3.6	4.4	8.0	12.2	5.1	2.9	1.6	3.4	.0	1.0	42.1	
	TOT %	3.9	5.2	9.7	14.9	5.8	3.2	1.7	3.6	.0	1.1	49.1	
10+	PCP	.1	.1	.4	.5	.2	*	.0	*	.0	*	1.4	
	NO PCP	3.8	4.0	11.6	15.7	5.2	2.2	1.3	2.5	.0	1.2	47.5	
	TOT %	3.8	4.1	12.0	16.2	5.4	2.2	1.3	2.5	.0	1.3	48.8	
	TOT OBS												7803
	TOT PCT	8.0	9.5	22.1	31.7	11.5	5.5	3.0	6.2	.0	2.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	4-10	*	.0	*	.0	*	.0	.0	*	.0		.1	
	11-21	.0	*	*	*	*	*	*	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	*	*	*	*	*	.0	.0	.1	
1/2<1	0-3	.0	*	*	*	*	.0	.0	.0	.0	*	.1	
	4-10	.0	.1	.0	.1	*	*	.0	.0	.0		.2	
	11-21	*	.0	.1	.1	*	*	.0	*	.0		.2	
	22+	.0	.0	*	*	*	*	.0	.0	.0		.1	
	TOT %	*	.1	.1	.2	.1	*	.0	*	.0	*	.6	
1<2	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	.1	*	.1	*	.1	*	*	.0	.0		.2	
	11-21	.1	*	.1	.1	*	*	*	*	.0		.4	
	22+	*	*	.1	*	*	.0	.0	*	.0		.2	
	TOT %	.2	*	.2	.2	.1	*	*	*	.0	*	.8	
2<5	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	*	*	
	4-10	*	*	*	*	*	.0	.0	.0	.0		.1	
	11-21	*	*	.1	.2	*	*	.0	*	.0		.4	
	22+	*	.0	.1	.1	*	.0	.0	*	.0		.2	
	TOT %	*	*	.2	.4	.1	*	.0	*	.0	*	.8	
5<10	0-3	.5	.7	.7	.6	.3	.4	.3	.5	.0	1.0	5.1	
	4-10	2.1	3.3	4.0	4.7	2.2	1.3	.8	1.8	.0		20.3	
	11-21	1.0	.8	3.8	6.6	2.2	1.0	.4	1.0	.0		16.9	
	22+	*	.1	.5	2.0	.5	.1	*	.1	.0		3.4	
	TOT %	3.7	4.9	9.1	13.8	5.4	2.9	1.5	3.4	.0	1.0	45.7	
10+	0-3	.4	.5	.7	.4	.4	.1	.2	.2	.0	1.4	4.3	
	4-10	2.7	3.3	6.4	5.4	2.2	1.1	.7	1.6	.0		23.6	
	11-21	1.1	.8	4.9	9.2	2.5	1.0	.4	1.0	.0		20.9	
	22+	*	*	.5	1.9	.5	.2	.1	*	.0		3.2	
	TOT %	4.2	4.6	12.5	17.0	5.5	2.5	1.3	2.9	.0	1.4	52.0	
	TOT OBS												8636
	TOT PCT	8.1	9.7	22.1	31.6	11.2	5.4	2.9	6.4	.0	2.9	100.0	

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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
00&03	.1	.0	1.3	4.8	11.1	3.6	1.4	.3	.2	.1	22.9	77.1	1017
06&09	.3	.0	1.4	5.7	9.8	5.0	1.7	.1	.2	.2	24.5	75.5	1001
12&15	.0	.3	1.5	5.1	8.8	3.3	1.2	.1	.0	.2	20.4	79.6	851
18&21	.5	.4	1.1	4.3	9.5	3.2	1.1	.0	.1	.2	20.4	79.6	732
TOT													3601
PCT	.2	.1	1.4	5.0	9.9	3.8	1.4	.1	.1	.2	22.3	77.7	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
00&03	.1	.3	1.2	.9	36.5	61.0	1917
06&09	.1	.8	1.1	.8	49.1	48.3	2800
12&15	.2	.4	.4	.8	41.3	56.9	1749
18&21	.2	.7	.6	.7	54.5	43.3	2432
TOT							8898
PCT	.1	.6	.8	.8	46.3	51.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND3+	NH <5/8 AND 5+	TOTAL OBS
00&03	.1	1.6	7.1	17.0	75.9	972
06&09	.3	1.8	8.4	17.4	74.2	948
12&15	.0	1.9	8.1	14.3	77.6	794
18&21	.5	2.3	7.5	14.5	78.0	679
TOT						3393
PCT	.2	1.9	7.8	16.0	76.2	100.0

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
90/94	.0	.0	.0	*	*	.0	.0	.0		.1
85/89	.0	.0	*	.2	.2	.4	.1	*		.9
80/84	.0	.0	*	.4	2.3	4.8	3.2	1.2		12.1
75/79	.0	*	.2	1.4	6.8	15.6	8.9	3.9		36.8
70/74	.0	.1	.6	2.3	6.9	8.9	6.0	4.0		28.7
65/69	.0	.1	.7	2.4	3.4	4.7	4.1	2.3		17.8
60/64	.0	.1	.1	.6	.6	.6	.8	.3		3.2
55/59	.0	.0	.0	*	.1	.1	.2	.1		.4
50/54	.0	.0	.0	.0	.0	*	.2	*		.2
TOTAL									6395	100.0
PCT	.0	.3	1.7	7.3	20.3	35.1	23.4	11.8		

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
	.1	.1	.2	.2	.1	.0	.1	*	.0	.1
	1.6	1.6	2.7	3.4	.6	.2	.3	1.3	.0	.3
	3.3	4.2	10.2	12.4	2.4	.7	.7	2.2	.0	.7
	2.5	2.4	6.8	9.1	3.4	1.4	.5	1.7	.0	.8
	.6	1.0	2.4	5.7	3.9	1.7	.9	.9	.0	.7
	.0	*	.1	.5	1.0	1.1	.3	.1	.0	.1
	.0	.0	.0	.0	.1	.2	*	.0	.0	.1
	.0	.0	.0	.0	.1	.1	*	.0	.0	.0
	8.2	9.3	22.4	31.3	11.5	5.3	3.0	6.2	.0	2.7

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	90	82	80	75	69	66	56	74.4	2362
06&09	92	82	79	75	70	67	51	74.0	3455
12&15	85	78	77	73	69	67	51	73.0	2083
18&21	88	79	77	73	68	64	51	72.3	3070
TOT	92	81	79	74	69	66	51	73.4	10970

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	12.1	25.7	36.6	17.3	8.3	73	1459
06&09	.0	10.7	22.0	35.9	20.3	11.1	74	2022
12&15	.0	6.8	16.8	36.6	27.5	12.3	76	1357
18&21	.0	7.1	16.2	31.8	29.1	15.8	77	1754
TOT	0	648	1355	2266	1537	786	75	6592

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) 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	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	7	.0	.1
9/10	.0	.0	.0	.0	.0	*	*	.1	.1	.1	*	19	.0	.3
7/8	.0	.0	.0	.0	*	.1	.1	.1	.1	.1	.0	33	.0	.5
6	.0	.0	.0	.0	.1	*	.2	.2	.2	.1	.0	54	.0	.8
5	.0	.0	.0	.0	*	.1	.3	.5	.4	.2	.0	97	*	1.5
4	.0	.0	.0	.0	.1	.3	.5	.7	.4	.3	.0	157	.0	2.4
3	.0	.0	.0	*	.1	.8	1.0	1.4	1.2	.1	.0	298	*	4.6
2	.0	.0	.0	*	.4	1.3	1.7	2.5	1.4	*	.0	465	*	7.3
1	.0	.0	.0	.1	.7	2.2	2.7	3.9	1.4	.0	.0	690	*	10.9
0	.0	.0	*	.1	1.0	3.2	4.2	5.6	1.1	.0	.0	982	*	15.2
-1	.0	.0	.0	.1	1.5	4.1	4.7	5.3	.5	.0	.0	1051	.1	16.1
-2	.0	.0	*	.2	1.4	3.4	3.6	3.7	.2	.0	.0	842	*	12.5
-3	.0	.0	*	.3	1.4	2.4	2.8	1.9	.2	.0	.0	618	*	9.1
-4	.0	.0	.1	.5	1.7	1.8	1.7	1.0	*	.0	.0	481	*	6.8
-5	.0	*	.1	.3	1.5	1.1	1.0	.7	.0	.0	.0	327	*	4.6
-6	.0	.0	.1	.3	.9	.8	.4	.2	.0	.0	.0	187	.0	2.6
-7/-8	*	.1	.2	.7	.8	.5	.3	.1	*	.0	.0	207	*	2.7
-9/-10	.1	.1	.1	.4	.3	.1	*	*	.0	.0	.0	83	.0	1.1
-11/-13	*	*	.2	.2	*	.1	*	.0	.0	.0	.0	42	.0	.5
-14/-16	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL												6642		
PCT	.1	.2	.7	3.1	12.0	22.4	25.4	27.9	7.1	1.0	.1	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	*	.0	.0	.0	1.2
1-2	.2	2.4	.4	.0	.0	.0	3.0
3-4	*	1.2	.7	*	.0	.0	1.9
5-6	.0	.1	.5	.0	.0	.0	.6
7	.0	.0	.1	*	.0	.0	.1
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.5	4.6	1.7	*	.0	.0	6.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.0	.0	.0	.0	.0	1.4
1-2	.1	3.3	.5	.0	.0	.0	3.9
3-4	*	1.2	.6	*	.0	.0	1.8
5-6	.0	.2	.3	.0	.0	.0	.5
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.5	5.6	1.6	*	.0	.0	7.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.4	*	.0	.0	.0	1.6
1-2	.2	6.4	1.6	.0	.0	.0	8.3
3-4	*	3.1	4.7	.2	.0	.0	7.9
5-6	.0	.9	3.1	.2	.0	.0	4.2
7	.0	.1	1.0	.6	.0	.0	1.6
8-9	.0	.0	.2	.1	.0	.0	.3
10-11	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.0	*	.0	.0	*
13-16	.0	*	*	.1	.0	.0	.1
17-19	.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
TOT PCT	.5	11.9	10.8	1.3	.0	.0	24.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.0	*	.0	.0	.0	1.1
1-2	.1	4.8	2.5	.0	.0	.0	7.4
3-4	*	2.8	7.4	.7	.0	.0	11.0
5-6	.0	.6	6.4	1.0	.1	.0	8.0
7	.0	.1	2.2	1.5	.1	.0	3.8
8-9	.0	*	.5	.6	.1	.0	1.2
10-11	.0	.0	.1	.7	.1	.0	.9
12	.0	.0	*	.1	.1	.0	.2
13-16	.0	.0	.1	.2	.1	.0	.3
17-19	.0	*	*	.0	*	.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	*
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
TOT PCT	.2	9.3	19.3	4.8	.5	.0	34.1

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.1	.0	.0	.0	.7
1-2	.2	2.3	.9	.0	.0	.0	3.3
3-4	.1	1.5	2.8	.1	.0	.0	4.5
5-6	.0	.1	1.5	.3	.0	.0	1.9
7	.0	*	.7	.3	.1	.0	1.1
8-9	.0	*	.2	.2	*	.0	.4
10-11	.0	.0	.1	.2	.1	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	*	.0	.1
17-19	.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
TOT PCT	.5	4.4	6.1	1.2	.2	.0	12.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.3	.0	.0	.0	.0	.4
1-2	.1	1.0	.2	.0	.0	.0	1.2
3-4	.0	.4	1.3	.1	.0	.0	1.7
5-6	*	.1	.6	.2	.0	.0	.9
7	.0	*	.2	.1	*	.0	.3
8-9	.0	.0	.1	.1	.0	.0	.1
10-11	.0	.0	.0	.1	.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
TOT PCT	.2	1.8	2.3	.4	*	.0	4.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3
1-2	.1	.8	.2	.0	.0	.0	1.1
3-4	.0	.2	.5	.0	.0	.0	.7
5-6	.0	*	.1	.1	.0	.0	.3
7	.0	.0	.1	.1	.0	.0	.1
8-9	.0	.0	*	.0	*	.0	.1
10-11	.0	.0	.0	*	.0	.0	*
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
TOT PCT	.2	1.2	.9	.2	*	.0	2.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.4	.0	.0	.0	.0	.6	
1-2	.1	1.5	.3	.0	.0	.0	1.8	
3-4	.0	.7	1.0	*	.0	.0	1.7	
5-6	.0	.1	.4	.0	.0	.0	.4	
7	.0	.0	*	*	.0	.0	.1	
8-9	.0	.0	*	*	*	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	.3	2.6	1.7	.1	*	.0	4.8	97.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.4	5.5	.1	.0	.0	.0	10.1	
1-2	1.4	22.2	6.4	.0	.0	.0	30.1	
3-4	.3	11.0	18.7	1.1	.0	.0	31.1	
5-6	*	2.1	12.7	1.8	.1	.0	16.7	
7	.0	.2	4.4	2.4	.2	.0	7.1	
8-9	.0	*	1.0	1.0	.2	.0	2.3	
10-11	.0	.0	.4	1.1	.2	.0	1.6	
12	.0	.0	*	.1	.1	.0	.2	
13-16	.0	*	.1	.3	.1	.0	.6	
17-19	.0	*	*	*	*	.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	*	
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	
TOT PCT	6.2	41.1	43.9	8.0	.8	.0	100.0	2784

PERIOD: (OVER-ALL) 1949-1969

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	11.2	14.2	7.2	2.9	.9	.7	.0	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1241	4
6-7	.0	1.6	8.8	11.1	5.9	3.1	1.6	.6	.6	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	1074	6
8-9	.0	.3	1.8	4.9	3.7	2.7	1.5	.6	.8	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	549	7
10-11	.0	.4	.1	.9	.5	.7	.4	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	114	7
12-13	.0	.0	.6	.2	.3	.1	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	52	7
>13	.0	.0	.0	.3	.1	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	32	10
INDET	1.7	.5	1.0	.7	.3	.1	.2	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	151	3
TOTAL PCT	3.5	14.0	26.5	25.3	13.7	7.6	4.7	1.7	2.1	.4	.2	.2	*	.0	.0	.0	.0	.0	.0	3213 100.0	5

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1863-1972

AREA 0004 ROCKHAMPTON
23.25 152.2E

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	.1	.0	4	*
87/88	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.4	.5	15	.2
85/86	.4	.6	.3	.0	.0	.0	.0	.0	.0	.0	.3	1.1	111	1.2
83/84	5.0	5.8	3.8	.1	.0	.0	.0	.0	.0	.3	1.7	7.2	555	5.7
81/82	23.3	25.5	17.0	4.7	.1	.0	.0	.0	.0	.8	9.6	28.8	1254	13.0
79/80	39.6	38.3	39.3	17.3	2.4	.3	.1	.2	.0	.8	35.7	40.0	1528	15.9
77/78	29.6	20.6	29.3	34.2	12.8	1.7	.2	.6	.7	4.8	32.6	19.0	1366	14.2
75/76	6.9	5.8	7.9	27.2	28.4	7.1	2.0	2.7	7.1	19.3	36.6	14.3	1468	15.3
73/74	.9	2.2	1.4	11.6	31.0	27.0	9.9	11.2	18.3	29.2	4.4	2.9	1460	15.2
71/72	.1	.9	.4	3.5	16.2	34.8	26.9	23.9	27.2	6.7	.6	.5	1007	10.5
69/70	.0	.3	.3	.2	7.6	16.5	27.7	31.2	27.6	2.4	.4	.0	531	5.5
67/68	.0	.0	.0	.2	1.0	9.6	15.9	19.4	14.4	.0	.0	.0	187	1.9
65/66	.0	.0	.0	.4	.3	2.4	9.2	5.6	4.0	.0	.0	.0	81	.8
63/64	.0	.0	.0	.6	.1	.4	4.3	3.6	.4	.0	.0	.0	39	.4
61/62	.0	.0	.0	.0	.2	.3	2.6	1.1	.1	.0	.0	.0	13	.1
59/60	.0	.0	.0	.0	.0	.0	1.1	.4	.0	.0	.0	.0	1	*
57/58	.0	.0	.0	.0	.0	.0	.1	.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
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	682	671	730	834	1163	1005	917	804	673	777	712	652	9620	100.0
MEAN	79.4	79.4	78.9	76.6	73.9	71.4	69.3	69.7	70.7	73.1	76.2	77.9	74.7	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1011	1008	1009	1007	1010	1008	1008	1007	1009	441
FEB	1011	1009	1009	1009	1011	1008	1009	1009	1009	499
MAR	1014	1012	1011	1012	1013	1014	1012	1012	1012	499
APR	1016	1015	1014	1014	1016	1014	1014	1015	1015	642
MAY	1018	1016	1015	1015	1017	1015	1015	1016	1016	851
JUN	1020	1018	1017	1018	1019	1018	1017	1018	1018	762
JUL	1020	1018	1017	1017	1019	1018	1017	1019	1018	655
AUG	1020	1019	1017	1018	1018	1019	1017	1018	1018	607
SEP	1019	1018	1016	1018	1017	1018	1017	1017	1017	499
OCT	1019	1017	1015	1016	1018	1017	1016	1017	1017	630
NOV	1015	1016	1013	1015	1015	1016	1014	1016	1014	589
DEC	1013	1012	1011	1010	1013	1011	1011	1012	1012	480
ANN	1016	1015	1014	1014	1016	1015	1014	1015	1015	7154
OBS	1007	621	1364	606	873	598	1304	581		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	992	995	1001	1007	1010	1012	1015	1017	1018
FEB	983	989	1001	1007	1010	1013	1016	1017	1018
MAR	994	1001	1006	1011	1013	1015	1018	1019	1021
APR	1002	1006	1009	1012	1015	1017	1020	1021	1023
MAY	1000	1006	1009	1014	1016	1018	1021	1023	1024
JUN	1005	1009	1010	1015	1018	1021	1024	1026	1027
JUL	1005	1007	1012	1016	1018	1020	1023	1026	1028
AUG	1004	1007	1011	1016	1019	1021	1023	1025	1033
SEP	1006	1008	1010	1015	1018	1020	1024	1025	1028
OCT	1005	1006	1010	1015	1017	1019	1022	1024	1025
NOV	1003	1004	1007	1011	1015	1018	1021	1023	1030
DEC	1001	1003	1006	1009	1012	1014	1017	1019	1023

JANUARY

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1870-1973

AREA 0005 BRISBANE
26.8S 153.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.3	3.9	.5	.0	.0	.0	.0	8.7	.0	4.1	1.9	.0	3.9	.0	83.4
NE	2.0	6.4	.5	.0	.0	.0	.0	8.9	2.0	2.7	.0	.0	1.8	.0	84.5
E	6.8	12.4	.6	.0	.0	.0	.0	19.8	4.3	2.4	.6	.0	.0	.0	72.9
SE	5.8	7.1	1.2	.0	.0	.0	.0	14.0	2.1	2.7	.8	.0	1.0	.0	80.4
S	1.7	11.3	1.7	.0	.0	.0	.0	14.6	1.9	3.8	1.4	.0	1.9	.0	76.3
SW	4.4	.0	.0	.0	.0	.0	.0	4.4	8.8	4.4	4.4	.0	.0	.0	78.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	23.5	.0	.0	.0	.0	76.5
NW	1.6	3.1	.0	.0	.0	.0	.0	4.7	.0	14.7	.0	.0	.0	.0	80.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	16.7	.0	.0	.0	.0	.0	.0	16.7	.0	16.7	.0	.0	.0	.0	83.3
TOT PCT	4.5	7.8	.8	.0	.0	.0	.0	13.1	2.3	3.8	1.0	.0	1.4	.0	79.2
TOT OBS:	735														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.5	6.3	1.3	.0	.0	.0	.0	10.1	3.8	.0	1.3	.0	1.9	.0	82.9
06&09	5.6	7.1	1.0	.0	.0	.0	.0	13.8	2.0	2.0	1.0	.0	2.0	.0	80.1
12&15	6.3	10.9	.6	.0	.0	.0	.0	17.7	1.7	8.0	1.1	.0	1.1	.0	72.0
18&21	3.5	6.5	.4	.0	.0	.0	.0	10.4	2.2	4.3	.4	.0	.4	.0	82.2
TOT PCT	4.5	7.6	.8	.0	.0	.0	.0	12.9	2.4	3.7	.9	.0	1.3	.0	79.4
TOT OBS:	759														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	8.6	5.4	.4	.1	.0		15.4	10.4	13.0	18.2	17.0	13.9	9.1	16.8	15.9	16.1
NE	1.0	10.9	3.5	.5	.0	*		16.0	9.1	9.6	16.3	17.9	21.1	17.5	18.3	14.2	11.6
E	1.5	11.1	6.8	2.2	.3	.1		21.9	11.7	23.4	19.4	18.5	25.2	22.6	23.5	22.0	21.9
SE	1.4	7.9	11.0	3.9	.2	.1		24.4	14.1	18.0	25.0	27.4	23.7	28.8	23.0	25.6	21.0
S	.8	4.1	5.8	1.6	.2	.1		12.6	13.6	17.7	10.7	14.8	12.4	11.5	10.2	11.0	14.7
SW	.1	1.1	1.2	.1	.4	.0		2.9	15.0	5.5	3.9	1.5	.8	6.7	1.3	2.0	4.5
W	*	.7	.2	.1	.0	.0		1.1	10.1	.0	.0	.6	.0	.0	2.3	1.7	3.1
NW	.4	2.1	1.7	.2	.0	.0		4.4	10.2	10.7	2.7	1.8	2.3	3.6	3.9	5.4	6.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0	2.1	3.9	.6	.8	.0	.7	2.0	.9
TOT OBS	86	531	405	102	12	3	1139		11.7	96	129	169	133	104	152	244	112
TOT PCT	7.6	46.6	35.6	9.0	1.1	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.5	9.9	1.8	.2	.0		15.4	10.4	16.0	15.6	13.7	15.9
NE	5.3	9.6	1.1	.0	*		16.0	9.1	13.4	19.3	18.0	13.4
E	6.0	11.2	3.9	.7	.2		21.9	11.7	21.1	21.4	23.1	22.0
SE	4.8	9.7	9.2	.7	.1		24.4	14.1	22.0	25.7	25.4	24.2
S	2.7	5.6	3.6	.6	.1		12.6	13.6	13.7	13.7	10.7	12.1
SW	.7	1.3	.5	.1	.3		2.9	15.0	4.6	1.2	3.5	2.8
W	.4	.5	.2	.0	.0		1.1	10.1	.0	.3	1.4	2.2
NW	1.1	2.8	.4	.1	.0		4.4	10.2	6.1	2.0	3.8	5.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	3.1	.7	.4	1.7
TOT OBS	293	575	236	28	7	1139		11.7	225	302	256	356
TOT PCT	25.7	50.5	20.7	2.5	.6		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1870-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	3.1	8.9	40.0	36.4	10.2	1.3	.0	11.7	100.0	225
06&09	.7	2.6	48.0	36.8	10.3	1.7	.0	12.5	100.0	302
12&15	.4	6.3	47.7	34.8	9.4	1.2	.4	11.9	100.0	256
18&21	1.7	7.3	48.9	34.6	6.7	.3	.6	11.0	100.0	356
TOT	16	70	531	405	102	12	3	11.7		1139
PCT	1.4	6.1	46.6	35.6	9.0	1.1	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.6	2.3	1.6	.7		2.4
NE	5.2	2.8	4.0	1.4		3.8
E	5.9	3.7	5.4	10.3		5.3
SE	6.1	6.9	7.7	4.9		4.6
S	3.0	4.0	3.6	2.3		4.5
SW	.6	.6	2.0	1.7		5.8
W	.0	.0	.2	.0		6.0
NW	1.6	1.3	1.3	1.0		4.2
VAR	.0	.0	.0	.0		.0
CALM	.3	.6	.0	.6		4.6
TOT OBS	104	78	91	81	354	4.4
TOT PCT	29.4	22.0	25.7	22.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.3	.0	.0	.6	.0	.0	.0	10.2	
NE	.0	.0	.1	.1	2.1	.3	.3	.0	.0	.0	15.5	
E	.3	.0	1.6	3.3	5.0	1.5	.0	.0	.0	.0	13.6	
SE	.0	.0	.0	2.8	5.3	2.5	.0	.0	.0	.3	14.8	
S	.0	.0	.0	2.8	1.7	.0	.3	.3	.0	.0	7.8	
SW	.0	.0	.3	.6	.8	.6	.3	.0	.0	.0	2.3	
W	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	
NW	.0	.3	.0	.0	.8	.6	.2	.0	.0	.0	3.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	1.1	
TOT OBS	1	1	7	35	57	20	6	1	0	1	225	354
TOT PCT	.3	.3	2.0	9.9	16.1	5.6	1.7	.3	.0	.3	63.6	100.0

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 >50YD	= OR >0
= OR >6500	.3	.3	.3	.3	.3	.3	.3	.3
= OR >5000	.5	.5	.5	.5	.5	.5	.5	.5
= OR >3500	2.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5
= OR >2000	7.1	8.5	8.5	8.5	8.5	8.5	8.5	8.5
= OR >1000	18.9	23.0	24.0	24.0	24.3	24.3	24.3	24.3
= OR >600	23.0	30.3	33.6	33.9	34.2	34.2	34.2	34.2
= OR >300	23.2	30.6	34.2	35.8	36.1	36.1	36.1	36.1
= OR >150	23.2	30.9	34.4	36.1	36.3	36.3	36.3	36.3
= OR > 0	23.2	31.1	34.7	36.3	36.6	36.6	36.6	36.6
TOTAL	85	114	127	133	134	134	134	134

TOTAL NUMBER OF OBS: 366

PCT FREQ NH <5/8: 63.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.6	17.2	14.5	12.8	8.8	5.9	8.1	4.7	18.4	.0	407

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1870-1973

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	.4	
	NO PCP	.3	.0	.1	.3	.1	.0	.0	.0	.0	.0	.8	
	TOT %	.4	.1	.1	.3	.1	.0	.0	.0	.0	.1	1.2	
1<2	PCP	.0	*	.8	.0	.0	.0	.0	.0	.0	.0	.8	
	NO PCP	.3	.3	.0	.1	.1	.0	.0	.0	.0	.0	.8	
	TOT %	.3	.3	.8	.1	.1	.0	.0	.0	.0	.0	1.6	
2<5	PCP	.0	.0	.7	.5	.5	.0	.0	.0	.0	.0	1.6	
	NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.8	.5	.5	.0	.0	.0	.0	.0	1.8	
5<10	PCP	1.1	1.0	2.5	2.5	1.4	.1	.0	.2	.0	.0	8.8	
	NO PCP	5.7	6.6	6.8	10.5	6.3	1.0	.2	1.5	.0	.0	38.6	
	TOT %	6.8	7.6	9.3	13.0	7.8	1.2	.2	1.7	.0	.0	47.5	
10+	PCP	.0	.1	.3	.7	.2	.0	.0	.0	.0	.0	1.4	
	NO PCP	6.6	6.8	10.1	11.7	5.5	1.9	.4	2.7	.0	.7	46.4	
	TOT %	6.6	6.9	10.4	12.4	5.7	1.9	.4	2.7	.0	.7	47.8	
	TOT OBS												735
	TOT PCT	14.1	15.0	21.5	26.4	14.2	3.1	.6	4.4	.0	.8	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.2	.0	.1	.0	.0	.0	.0	.0	.0		.4	
	11-21	.1	.0	.0	.2	.1	.0	.0	.0	.0		.5	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.4	.1	.1	.2	.1	.0	.0	.0	.0	.1	1.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.2	.0	.0	.1	.0	.0	.0	.0		.5	
	11-21	.1	.0	.1	.2	.0	.0	.0	.0	.0		.4	
	22+	.1	.1	.8	.0	.0	.0	.0	.0	.0		1.0	
	TOT %	.3	.3	.9	.2	.1	.0	.0	.0	.0	.0	1.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	*	.1	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.7	.4	.5	.0	.0	.0	.0		1.6	
	TOT %	.0	.0	.7	.4	.5	.0	.0	.0	.0	.0	1.7	
5<10	0-3	.1	.8	.8	1.2	.6	.1	.1	.2	.0	.0	3.8	
	4-10	3.5	4.8	5.1	4.0	3.0	.5	.1	.9	.0		21.8	
	11-21	2.5	1.6	2.9	4.7	2.7	.4	.1	.4	.0		15.3	
	22+	.4	.2	1.0	2.3	.7	.1	.0	.1	.0		4.7	
	TOT %	6.4	7.4	9.8	12.2	7.0	1.0	.3	1.6	.0	.0	45.6	
10+	0-3	.5	.3	.9	.1	.1	.1	.0	.1	.0	1.1	3.4	
	4-10	3.6	5.4	5.6	3.6	1.4	.5	.4	1.0	.0		21.5	
	11-21	3.0	1.9	3.9	7.0	3.2	.9	.2	1.5	.0		21.5	
	22+	.0	*	.5	1.5	.7	.4	.0	.0	.0		3.2	
	TOT %	7.1	7.7	11.0	12.2	5.4	2.0	.5	2.7	.0	1.1	49.6	
	TOT OBS												822
	TOT PCT	14.2	15.5	22.5	25.2	13.2	3.0	.8	4.2	.0	1.2	100.0	

JANUARY

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1870-1973

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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
00&03	.0	.0	1.9	12.5	15.4	6.7	1.9	.0	.0	.0	38.5	61.5	104
06&09	1.2	.0	1.2	4.8	20.5	2.4	1.2	1.2	.0	.0	32.5	67.5	83
12&15	.0	.0	3.0	12.0	12.0	8.0	3.0	.0	.0	.0	38.0	62.0	100
18&21	.0	1.0	1.0	6.8	12.6	4.9	1.0	.0	.0	1.0	28.2	71.8	103
TOT	1	1	7	36	58	22	7	1	0	1	134	256	390
PCT	.3	.3	1.8	9.2	14.9	5.6	1.8	.3	.0	.3	34.4	65.6	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
00&03	.0	1.2	1.7	2.3	36.4	58.4	173
06&09	.5	1.4	2.3	.9	52.8	42.1	216
12&15	.0	1.0	2.6	2.0	37.8	56.6	196
18&21	.0	.8	.8	1.5	51.7	45.2	261
TOT	1	9	15	14	386	421	846
PCT	.1	1.1	1.8	1.7	45.6	49.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	2.0	16.2	24.2	59.6	99
06&09	1.3	3.9	10.4	24.7	64.9	77
12&15	.0	3.2	17.0	23.4	59.6	94
18&21	.0	2.1	10.4	19.8	69.8	96
TOT	1	10	50	84	232	366
PCT	.3	2.7	13.7	23.0	63.4	100.0

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
85/89	.0	.0	.2	.0	.6	.2	.0	.0	5	1.0
80/84	.0	.0	.0	1.3	2.5	7.1	2.3	.2	70	13.4
75/79	.0	.0	.2	2.1	8.1	27.1	18.0	10.2	342	65.6
70/74	.0	.0	.0	.6	5.0	6.3	3.8	2.7	96	18.4
65/69	.0	.0	.0	.2	.2	.8	.4	.0	8	1.5
TOTAL	0	0	2	22	85	216	128	68	521	100.0
PCT	.0	.0	.4	4.2	16.3	41.5	24.6	13.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.4	.2	.1	.1	.2	.0	.0	.0	.0	.0
2.7	2.3	3.1	2.4	1.0	.8	.0	1.1	.0	.2
9.8	13.0	17.0	14.5	6.0	1.8	.4	2.4	.0	.6
1.3	1.2	2.4	7.1	5.3	.7	.0	.2	.0	.2
.0	.0	.2	.2	.9	.0	.2	.0	.0	.0
14.3	16.7	22.7	24.3	13.4	3.3	.6	3.7	.0	1.0

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	86	85	83	78	73	71	70	77.8	214
06&09	87	84	82	77	73	69	68	77.3	299
12&15	89	81	79	76	72	68	65	75.9	257
18&21	87	82	80	76	72	69	67	75.9	359
TOT	89	84	81	77	72	69	65	76.6	1129

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	7.8	20.7	42.2	20.7	8.6	75	116
06&09	.0	4.5	18.8	44.4	24.1	8.3	76	133
12&15	.0	3.8	12.9	41.7	24.2	17.4	79	132
18&21	.0	3.1	13.2	37.7	27.7	18.2	79	159
TOT	0	25	87	223	132	73	77	540

JANUARY

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1870-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.0	.0	.5	.5	6	.0	1.0
6	.0	.0	.0	.0	.5	.0	3	.0	.5
5	.0	.0	.0	.3	.7	.2	7	.0	1.2
4	.0	.0	.8	1.0	.8	.0	16	.0	2.7
3	.0	.0	.2	1.9	1.5	.0	21	.3	3.2
2	.0	.0	1.2	4.6	.8	.0	39	.0	6.6
1	.0	.0	2.4	9.8	1.2	.2	80	.0	13.6
0	.0	.0	5.3	10.0	.3	.0	92	.0	15.6
-1	.0	.5	7.8	7.3	.3	.0	94	.2	15.8
-2	.3	.7	10.3	4.7	.3	.0	97	.0	16.4
-3	.2	.5	6.3	2.2	.0	.0	54	.3	8.8
-4	.0	.7	3.1	2.0	.2	.0	35	.2	5.8
-5	.5	.8	2.9	.7	.0	.0	29	.0	4.9
-6	.0	.5	1.0	.0	.0	.0	9	.0	1.5
-7/-8	.0	.5	.5	.0	.0	.0	6	.0	1.0
-11/-13	.0	.2	.0	.0	.0	.0	1	.0	.2
TOTAL	6	26	246	263	43	6	590	6	584
PCT	1.0	4.4	41.7	44.6	7.3	1.0	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2
1-2	.3	2.7	.2	.0	.0	.0	3.2
3-4	.3	1.5	1.4	.0	.0	.0	3.3
5-6	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.3	.6	.0	.0	.0	.9
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.3	.0	.3
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
TOT PCT	.6	5.7	4.3	.0	.3	.0	10.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0
1-2	.1	5.3	.9	.0	.0	.0	6.3
3-4	.0	3.3	2.2	.0	.0	.0	5.5
5-6	.0	.0	.8	.1	.0	.0	.8
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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	.1	.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
TOT PCT	.1	9.6	4.2	.1	.0	.1	14.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.4	.0	.0	.0	.0	2.0
1-2	.2	5.5	1.1	.0	.0	.0	6.9
3-4	.3	4.0	3.0	2.1	.0	.0	9.5
5-6	.0	.3	1.9	.8	.0	.0	3.0
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.3	.0	.3
10-11	.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.9	.0	.0	.9
17-19	.0	.0	.0	.3	.0	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.3	.2	.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
TOT PCT	1.1	11.2	6.3	5.0	.6	.2	24.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.1	.0	.0	.0	.0	1.7
1-2	.0	3.3	1.3	.0	.0	.0	4.6
3-4	.0	2.9	5.9	.0	.0	.0	8.7
5-6	.0	.0	4.0	1.3	.0	.0	6.3
7	.0	.0	1.7	.9	.0	.0	2.6
8-9	.0	.0	.6	1.0	.3	.0	1.9
10-11	.0	.0	.0	.0	.0	.3	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.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
TOT PCT	.6	7.3	14.4	3.5	.3	.3	26.4

PERIOD: (OVER-ALL) 1963-1973

JANUARY

TABLE 18 (CONT)

AREA 0005 BRISBANE
26.8S 153.5E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5	.0	.6	.0	.0	.0	.0	.6
1-2	.0	1.4	1.2	.0	.0	.0	2.7	.0	1.2	1.5	.0	.0	.0	2.7
3-4	.0	1.2	3.5	.3	.0	.0	5.0	.0	.0	.6	.0	.0	.0	.6
5-6	.0	.0	1.8	.6	.0	.0	2.4	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.3	.0	.3
8-9	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.0	.6	.0	.6
10-11	.0	.0	.0	.0	.0	.3	.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	.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
TOT PCT	.0	3.2	7.1	1.7	.0	.3	12.3	.0	1.8	2.5	.0	1.2	.0	5.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	.9	.0	.0	.0	.0	.9	
1-2	.0	.0	.0	.0	.0	.0	.0	.3	.8	.1	.0	.0	.0	1.2	
3-4	.0	.0	.2	.0	.0	.0	.2	.0	.5	1.4	.0	.0	.0	1.8	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	
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	.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	
TOT PCT	.0	.3	.2	.0	.0	.0	.5	.3	2.2	2.0	.0	.0	.0	4.5	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.9	6.8	.0	.0	.0	.0	10.7	
1-2	.9	20.5	6.2	.0	.0	.0	27.6	
3-4	.6	13.4	17.8	2.4	.0	.0	34.1	
5-6	.0	.3	11.6	2.7	.0	.0	14.5	
7	.0	.3	3.3	.9	.3	.0	4.7	
8-9	.0	.0	.9	1.8	1.2	.0	3.9	
10-11	.0	.0	.3	.6	.0	.6	1.5	
12	.0	.0	.0	.3	.3	.0	.6	
13-16	.0	.0	.0	1.2	.3	.0	1.5	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.3	.3	.6	
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	
TOT PCT	5.3	41.2	40.1	10.1	2.4	.9	100.0	337

PERIOD: (OVER-ALL) 1949-1973

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	1.6	9.2	12.9	9.2	2.2	1.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	4
6-7	.0	1.9	7.3	11.3	8.4	2.2	1.6	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	124	6
8-9	.0	.0	3.0	4.9	2.2	1.9	1.1	1.1	2.7	.3	.0	.0	.5	.0	.0	.0	.0	.0	.0	65	8
10-11	.0	.8	.0	1.6	.3	.3	.0	.0	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	7
12-13	.0	.0	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
>13	.0	.0	.0	.3	.3	.0	.0	.8	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	8	13
INDET	.8	.5	1.6	1.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	3
TOTAL	9	46	93	107	50	23	13	8	15	2	3	0	2	0	0	0	0	0	0	371	5
PCT	2.4	12.4	25.1	28.8	13.5	6.2	3.5	2.2	4.0	.5	.8	.0	.5	.0	.0	.0	.0	.0	.0	100.0	

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AREA 0005 BRISBANE
26.8S 153.5E

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1876-1972

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	12.3	3.0	2.4	.0	.0	.0	.0	17.8	2.4	3.6	.0	.0	.6	.0	76.8
NE	3.2	3.2	.0	.0	.0	.0	.0	6.4	.0	1.3	.6	.0	.0	.0	91.6
E	3.3	5.2	.7	.0	.0	.0	.0	9.3	1.9	1.1	1.1	.0	.7	.0	86.2
SE	4.9	12.1	.5	.0	.0	.0	.0	17.6	3.4	.5	1.3	.0	.0	.0	77.8
S	10.1	9.5	.8	.0	.0	.0	.0	20.3	5.1	1.6	2.0	.0	1.6	.0	69.8
SW	5.7	36.4	.0	.0	.0	.0	.0	42.0	3.4	2.3	.0	4.5	4.5	.0	43.2
W	4.8	4.8	.0	.0	.0	.0	.0	9.5	16.7	23.8	.0	.0	.0	.0	54.8
NW	5.0	8.6	.0	.0	.0	.0	.0	13.6	.0	4.3	.0	.0	1.4	.0	82.1
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	16.7	.0	.0	.0	.0	83.3
TOT PCT	6.2	8.6	.7	.0	.0	.0	.0	15.5	2.9	2.0	1.0	.1	.7	.0	78.2
TOT OBS:	689														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00&03	1.3	6.7	1.3	.0	.0	.0	.0	9.4	2.0	.7	1.3	.0	.0	.0	86.6
06&09	6.5	8.6	.5	.0	.0	.0	.0	15.7	1.6	1.1	1.6	.5	.5	.0	80.0
12&15	7.7	6.5	.6	.0	.0	.0	.0	14.9	4.8	4.8	.6	.0	1.2	.0	75.0
18&21	8.8	11.8	.5	.0	.0	.0	.0	21.1	2.9	1.5	.5	.0	1.0	.0	73.0
TOT PCT	6.4	8.6	.7	.0	.0	.0	.0	15.7	2.8	2.0	1.0	.1	.7	.0	78.2
TOT OBS:	706														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	6.3	3.2	*	.0	.0		10.7	8.9	11.1	17.3	7.0	6.6	8.6	13.0	12.2	8.5
NE	1.5	8.1	2.6	*	.0	.0		12.3	7.8	5.5	12.5	16.4	13.7	11.8	12.4	10.1	14.8
E	1.0	13.1	6.7	.8	.1	.0		21.7	10.0	16.8	23.6	23.[illegible]	25.5	20.6	27.8	18.2	18.6
SE	.8	7.5	15.9	4.4	.6	.5		29.7	15.6	31.8	17.8	32.4	30.2	27.5	30.3	33.7	27.5
S	.3	3.9	6.6	3.8	1.3	.2		16.1	18.2	22.4	18.8	16.4	15.8	22.0	11.4	12.6	15.3
SW	.1	.7	.9	.5	.1	.2		2.4	18.9	4.5	.5	1.3	3.2	2.8	1.6	2.7	3.0
W	.2	.5	.4	.1	.1	.0		1.3	13.3	1.1	1.4	.3	.0	3.5	2.0	1.0	1.7
NW	.3	2.4	1.3	.2	*	.0		4.2	10.4	4.7	5.3	2.4	2.3	1.4	1.6	7.2	7.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0	2.1	2.9	.0	.9	1.9	.0	2.3	3.4
TOT OBS	72	449	394	104	24	9	1052		12.7	95	104	168	111	108	127	221	118
TOT PCT	6.8	42.7	37.5	9.9	2.3	.9		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.5	6.4	.7	.0	.0		10.7	8.9	14.3	7.6	11.0	10.9
NE	5.7	6.0	.6	.0	.0		12.3	7.8	9.2	15.3	12.1	11.7
E	6.0	13.1	2.3	.3	.0		21.7	10.0	20.4	24.5	24.5	18.4
SE	3.0	15.0	9.5	1.5	.6		29.7	15.6	24.5	31.5	29.0	31.6
S	1.4	6.8	5.3	2.5	.3		16.1	18.2	20.5	16.1	16.3	13.5
SW	.4	.9	.6	.2	.2		2.4	18.9	2.4	2.1	2.1	2.8
W	.4	.5	.1	.1	*		1.3	13.3	1.3	.2	2.7	1.3
NW	1.4	2.2	.5	.1	.0		4.2	10.4	5.0	2.3	1.5	7.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	2.3	.4	.9	2.7
TOT OBS	246	537	207	50	12	1052		12.7	199	279	235	339
TOT PCT	23.4	51.0	19.7	4.8	1.1		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1876-1972

AREA 0005 BRISBANE
26.8S 153.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.5	5.5	38.2	41.7	8.0	3.5	.5	13.1	100.0	199
06&09	.4	4.3	41.6	36.6	13.3	2.9	1.1	13.5	100.0	279
12&15	.9	6.0	46.4	33.2	11.5	1.7	.4	12.4	100.0	235
18&21	2.7	5.3	43.7	38.6	7.1	1.5	1.2	12.0	100.0	339
TOT	17	55	449	394	104	24	9	12.7		1052
PCT	1.6	5.2	42.7	37.5	9.9	2.3	.9		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.4	1.9	1.4	.9		3.4
NE	3.4	2.8	2.6	.1		3.3
E	5.0	4.9	6.9	3.4		4.6
SE	7.2	11.0	8.9	5.0		4.4
S	4.5	4.2	7.2	6.9		5.2
SW	.5	.7	.7	1.0		5.4
W	.8	.2	.0	.3		3.1
NW	.4	.9	1.2	.4		4.5
VAR	.0	.0	.0	.0		.0
CALM	.6	.0	.6	.0		3.7
TOT OBS	88	91	101	62	342	4.5
TOT PCT	25.7	26.6	29.5	18.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.2	.8	.8	.0	.0	.0	.0	5.7	
NE	.1	.0	.0	.4	.6	.4	.0	.0	.0	.0	7.5	
E	.2	.0	.0	1.9	2.9	.3	1.2	.0	.0	.0	13.7	
SE	.3	.0	.3	2.4	2.8	2.4	.4	.0	.0	.0	23.6	
S	.3	.0	.3	3.9	2.8	2.2	.5	.0	.0	.0	12.7	
SW	.0	.0	.3	1.0	.3	.1	.0	.0	.0	.0	1.3	
W	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	1.0	
NW	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	2.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
TOT OBS	3	0	3	35	36	21	8	0	0	0	236	342
TOT PCT	.9	.0	.9	10.2	10.5	6.1	2.3	.0	.0	.0	69.0	100.0

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 >500YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
= OR >2000	6.3	8.3	8.9	8.9	8.9	8.9	8.9	8.9
= OR >1000	14.9	19.0	19.5	19.5	19.5	19.5	19.5	19.5
= OR >600	21.0	27.3	29.3	29.6	29.6	29.6	29.6	29.6
= OR >300	21.3	27.9	30.2	30.5	30.5	30.5	30.5	30.5
= OR >150	21.3	27.9	30.2	30.5	30.5	30.5	30.5	30.5
= OR > 0	21.6	28.2	30.5	31.0	31.0	31.0	31.3	31.3
TOTAL	75	98	106	108	108	108	109	109

TOTAL NUMBER OF OBS: 348

PCT FREQ NH <5/8: 68.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
4.3	17.3	17.0	15.2	13.7	6.1	7.1	5.6	13.2	.5	394

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PERIOD: (PRIMARY) 1913-1972
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.1	.1	.3	.1	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.1	.2	.4	.4	.0	.0	.0	.0	.0	1.0	
	TOT %	.0	.1	.3	.7	.5	.0	.0	.0	.0	.0	1.6	
1<2	PCP	.0	.0	.0	.3	.6	.0	.0	.0	.0	.0	.9	
	NO PCP	.1	.0	.1	.0	.3	.1	.1	.1	.0	.0	.9	
	TOT %	.1	.0	.1	.3	.9	.1	.1	.1	.0	.0	1.7	
2<5	PCP	.0	.0	.1	.3	.4	.0	.0	.1	.0	.0	1.0	
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.4	.4	.0	.0	.1	.0	.0	1.2	
5<10	PCP	1.6	.7	1.2	2.9	1.9	1.2	.1	.5	.0	.0	10.0	
	NO PCP	6.0	4.5	6.8	7.3	4.9	.4	.4	2.8	.0	.1	33.2	
	TOT %	7.6	5.2	8.0	10.2	6.8	1.5	.6	3.2	.0	.1	43.3	
10+	PCP	.5	.0	.4	1.2	.5	.2	.0	.1	.0	.0	2.9	
	NO PCP	3.9	6.0	10.5	15.3	9.1	1.3	.8	1.6	.0	.7	49.2	
	TOT %	4.4	6.0	11.0	16.5	9.6	1.5	.8	1.6	.0	.7	52.1	
	TOT OBS												689
	TOT PCT	12.0	11.3	19.5	28.1	18.4	3.2	1.5	5.1	.0	.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.3	.0	.0	.0	.0	.0	.0		.4	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.5	.4	.0	.0	.0	.0		.9	
	TOT %	.0	.1	.3	.6	.5	.0	.0	.0	.0	.0	1.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.1	.1	.1	.0	.0	.1	.0		.5	
	11-21	.0	.0	.0	.0	.4	.1	.0	.0	.0		.5	
	22+	.0	.0	.0	.1	.3	.0	.1	.0	.0		.5	
	TOT %	.1	.0	.1	.3	.8	.1	.1	.1	.0	.0	1.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	4-10	.0	.0	.0	.1	.2	.0	.0	.0	.0		.3	
	11-21	.0	.0	.1	.4	.2	.1	.0	.0	.0		.8	
	22+	.0	.0	.0	.0	.3	.0	.0	.0	.0		.3	
	TOT %	.0	.0	.1	.5	.7	.1	.0	.1	.0	.0	1.5	
5<10	0-3	1.1	.5	.2	.0	.1	.0	.1	.2	.0	.1	2.3	
	4-10	3.8	2.9	4.5	2.5	1.3	.2	.0	1.2	.0		16.3	
	11-21	2.4	1.7	3.2	5.0	1.8	.4	.3	1.2	.0		16.1	
	22+	.0	.0	.2	2.2	3.0	.8	.1	.3	.0		6.6	
	TOT %	7.3	5.0	8.1	9.6	6.2	1.4	.5	3.0	.0	.1	41.3	
10+	0-3	.2	.6	.6	.7	.1	*	.2	.1	.0	1.1	3.6	
	4-10	3.3	5.2	6.8	4.0	2.5	.7	.5	1.3	.0		24.3	
	11-21	1.3	1.3	3.4	9.8	3.8	.5	.1	.2	.0		20.5	
	22+	.0	.0	.5	2.5	2.5	.2	.0	.0	.0		5.7	
	TOT %	4.8	7.1	11.4	17.0	8.9	1.4	.8	1.6	.0	1.1	54.1	
	TOT OBS												753
	TOT PCT	12.2	12.3	20.0	28.0	17.2	3.0	1.5	4.7	.0	1.2	100.0	

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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
00&03	.0	.0	.0	12.0	9.0	6.0	1.0	.0	.0	.0	28.0	72.0	100
06&09	2.2	.0	1.1	9.7	9.7	3.2	2.2	.0	.0	.0	28.0	72.0	93
12&15	1.0	.0	.0	6.7	10.6	8.7	3.8	.0	.0	.0	30.8	69.2	104
18&21	.0	.0	2.5	10.0	11.3	6.3	1.3	.0	.0	.0	31.3	68.8	80
TOT	3	0	3	36	38	23	8	0	0	0	111	266	377
PCT	.8	.0	.8	9.5	10.1	6.1	2.1	.0	.0	.0	29.4	70.6	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
00&03	.0	1.3	.0	1.3	34.6	62.8	156
06&09	.5	2.5	1.5	2.5	43.6	49.5	204
12&15	.0	1.1	2.7	.5	32.4	63.2	185
18&21	.0	.9	1.8	1.3	51.6	44.4	225
TOT	1	11	12	11	319	416	770
PCT	.1	1.4	1.6	1.4	41.4	54.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	11.8	17.2	71.0	93
06&09	2.3	3.4	14.8	14.8	70.5	88
12&15	1.0	1.0	9.1	22.2	68.7	99
18&21	.0	2.9	14.7	22.1	63.2	68
TOT	3	6	43	66	239	348
PCT	.9	1.7	12.4	19.0	68.7	100.0

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
85/89	.0	.0	.0	.0	.2	.0	.2	.2	3	.6
80/84	.0	.0	.0	.2	1.3	2.8	4.1	2.6	59	11.0
75/79	.0	.0	.0	.4	12.9	26.0	20.2	8.0	361	67.5
70/74	.0	.0	.0	.6	3.0	5.2	7.1	4.5	109	20.4
65/69	.0	.0	.0	.0	.0	.0	.0	.4	2	.4
60/64	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
TOTAL	0	0	0	6	93	182	169	85	535	100.0
PCT	.0	.0	.0	1.1	17.4	34.0	31.6	15.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.2	.0	.0	.0	.0	.0	.2	.0	.0
3.9	2.1	2.7	1.0	.4	*	.0	.8	.0	.0
7.4	8.8	15.9	18.4	10.5	1.5	.8	3.5	.0	.7
1.2	.4	2.3	7.5	5.9	1.5	.7	.5	.0	.4
.0	.0	.0	.0	.2	.0	.2	.0	.0	.0
.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
12.7	11.7	20.9	26.8	17.0	3.1	1.7	5.0	.0	1.1

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	87	86	82	78	73	72	72	77.9	198
06&09	89	84	82	77	72	71	67	77.1	268
12&15	81	80	80	76	71	67	65	75.7	234
18&21	91	80	79	76	72	69	64	75.7	341
TOT	89	83	81	77	72	69	64	76.5	1041

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	2.6	17.2	44.0	24.1	12.1	77	116
06&09	.0	.8	24.4	35.1	26.7	13.0	77	131
12&15	.0	.7	17.8	27.4	39.3	14.8	80	135
18&21	.0	.6	11.3	30.6	35.0	22.5	82	160
TOT	0	6	94	183	172	87	79	542

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	.2	.0	.0	.0	1	.0	.2
9/10	.0	.0	.0	.2	.2	.0	.0	2	.0	.3
7/8	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
6	.0	.0	.0	.2	.5	.3	.0	6	.0	1.0
5	.0	.0	.0	.7	.2	.0	.0	5	.0	.9
4	.0	.0	.3	1.4	.2	.2	.0	12	.0	2.1
3	.0	.0	1.0	1.7	1.4	.2	.0	25	.0	4.3
2	.0	.2	.9	2.6	1.7	.0	.0	31	.0	5.4
1	.0	.0	1.7	7.8	1.0	.0	.0	61	.3	10.2
0	.0	.2	3.1	8.2	.2	.0	.0	67	.2	11.5
-1	.0	.9	6.4	11.1	.2	.0	.0	107	.2	18.4
-2	.0	.2	6.8	7.1	.2	.0	.0	82	.0	14.2
-3	.0	1.4	10.1	2.3	.0	.0	.0	79	.2	13.5
-4	.0	.7	5.0	.9	.0	.0	.0	38	.2	6.4
-5	.0	1.0	3.3	.9	.0	.0	.0	30	.0	5.2
-6	.0	.9	1.0	.9	.0	.0	.0	16	.0	2.8
-7/-8	.0	.9	.2	.3	.0	.0	.0	8	.0	1.4
-9/-10	.0	.2	.2	.0	.0	.0	.0	2	.0	.3
-11/-13	.3	.2	.0	.0	.0	.0	.0	3	.0	.5
TOTAL	2	38	231	267	33	4	1	576	6	570
PCT	.3	6.6	40.1	46.4	5.7	.7	.2	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	2.9	.8	.0	.0	.0	3.7
3-4	.0	1.5	1.9	.0	.0	.0	3.5
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	5.0	3.1	.0	.0	.0	8.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.7	1.0	.0	.0	.0	2.0
1-2	.3	3.6	.1	.0	.0	.0	4.0
3-4	.0	3.1	.8	.0	.0	.0	3.8
5-6	.0	.4	.9	.0	.0	.0	1.4
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.7	7.7	2.9	.0	.0	.0	11.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.3	.0	.0	.0	.0	1.6
1-2	.0	4.2	.0	.0	.0	.0	4.2
3-4	.0	4.4	4.3	.3	.0	.0	9.1
5-6	.0	1.2	1.6	.0	.0	.0	2.8
7	.0	.0	.8	.3	.0	.0	1.2
8-9	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.3	11.0	7.5	.7	.0	.0	19.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.9	.0	.0	.0	.0	2.5
1-2	.0	1.9	1.7	.0	.0	.0	3.6
3-4	.3	1.0	9.3	.0	.0	.0	10.7
5-6	.0	.1	5.9	1.4	.0	.0	7.4
7	.0	.0	1.2	1.0	.0	.0	2.2
8-9	.0	.0	.7	.3	.0	.0	1.0
10-11	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.3	.0	.3	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.3	.0	.3
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.3	.3	.0	.7
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
TOT PCT	1.0	4.9	19.2	3.8	1.0	.0	29.9

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.7	.0	.0	.0	.0	2.0
1-2	.0	.9	.0	.0	.0	.0	.9
3-4	.0	2.1	3.5	.7	.0	.0	6.3
5-6	.0	.3	3.3	.0	.0	.0	3.6
7	.0	.0	1.3	1.7	.7	.0	3.6
8-9	.0	.0	.0	1.3	.9	.0	2.2
10-11	.0	.0	.0	.6	1.3	.0	1.9
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.3	.0	.7
17-19	.0	.0	.0	.3	.0	.0	.3
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
TOT PCT	.3	5.1	8.1	4.9	3.2	.0	21.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.3	.0	.0	.0	.7
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.1	.1	.0	.0	.0	1.2
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.1	.1	.0	.2
10-11	.0	.0	.0	.0	.1	.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
TOT PCT	.1	1.4	.8	.1	.2	.0	2.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.5
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.3	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.3	1.3	.3	.3	.0	.0	2.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	1.8	.1	.0	.0	.0	1.9	
3-4	.0	1.0	.4	.0	.0	.0	1.4	
5-6	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	3.0	.6	.0	.0	.0	3.6	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.7	7.0	1.3	.0	.0	.0	12.1	
1-2	.3	16.1	2.7	.0	.0	.0	19.1	
3-4	.3	14.4	20.1	1.0	.0	.0	35.9	
5-6	.0	2.0	12.4	1.3	.0	.0	15.8	
7	.0	.0	3.7	3.4	.7	.0	7.7	
8-9	.0	.0	1.3	1.7	1.0	.0	4.0	
10-11	.0	.0	.0	1.0	1.3	.0	2.3	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.3	.3	.7	.0	1.3	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.3	.3	.0	.7	
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	
								298
TOT PCT	4.4	39.6	41.9	9.7	4.4	.0	100.0	

PERIOD: (OVER-ALL) 1949-1972

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	6.8	13.8	6.8	2.0	1.4	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	115	4
6-7	.0	.6	6.5	12.4	5.6	2.0	1.7	.6	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	108	6
8-9	.0	.3	2.0	4.0	4.8	3.4	1.7	.6	1.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	7
10-11	.0	.0	.3	1.1	1.1	1.4	2.5	.6	.8	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	30	10
12-13	.0	.0	.3	.0	.6	.0	2.3	.8	.8	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	19	12
>13	.0	.0	.0	.0	.6	.0	.0	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	11
INDET	.6	.3	1.4	.8	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	4
TOTAL	6	28	86	89	52	29	29	12	16	3	1	0	3	0	0	0	0	0	0	354	6
PCT	1.7	7.9	24.3	25.1	14.7	8.2	8.2	3.4	4.5	.8	.3	.0	.8	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1877-1973

AREA 0005 BRISBANE
26.8S 153.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.5	3.4	.0	.0	.0	.0	.0	4.9	.0	6.8	.0	.0	3.0		.0	85.2
NE	5.3	6.2	.0	.0	.0	.0	.0	11.5	.0	2.2	1.2	.0	2.5		.0	82.7
E	4.3	6.2	.7	.0	.0	.0	.0	11.2	.0	.3	.3	.0	.7		.0	87.5
SE	3.7	9.3	.8	.0	.0	.0	.0	13.8	4.2	1.1	.4	.0	.7		.0	80.2
S	5.9	10.4	3.2	.0	.0	.0	.0	19.5	2.1	.0	2.1	.0	.0		.0	76.3
SW	13.8	2.1	4.3	.0	.0	.0	.0	20.2	.0	5.3	.0	.0	.0		.0	74.5
W	4.2	.0	.0	.0	.0	.0	.0	4.2	.0	16.9	.0	.0	.0		.0	78.9
NW	3.0	5.2	3.0	.0	.0	.0	.0	11.1	.0	5.9	.0	.0	.0		.0	83.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	10.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0		.0	90.0
TOT PCT	4.5	7.3	1.2	.0	.0	.0	.0	13.0	1.8	2.1	.6	.0	.9		.0	81.7
TOT OBS:	778															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	5.5	6.7	.0	.0	.0	.0	.0	12.2	3.0	.0	.6	.0	.6		.0	83.5
06&09	2.7	6.4	2.3	.0	.0	.0	.0	11.4	2.3	1.4	.9	.0	1.8		.0	82.2
12&15	5.1	5.7	1.1	.0	.0	.0	.0	12.0	.6	4.6	.6	.0	.6		.0	82.3
18&21	4.5	10.2	1.2	.0	.0	.0	.0	15.9	1.2	2.0	.8	.0	.4		.0	79.6
TOT PCT	4.4	7.5	1.2	.0	.0	.0	.0	13.1	1.7	2.0	.7	.0	.9		.0	81.7
TOT OBS:	803															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.5	4.4	3.1	.0	.0	.0		9.0	8.7	8.7	9.8	8.7	10.2	6.7	9.9	10.2	5.4
NE	.8	7.8	2.8	.3	.0	.0		11.7	8.7	5.4	12.7	13.2	13.5	16.4	12.3	9.9	11.2
E	1.2	9.2	6.9	1.4	.2	.0		18.9	11.4	15.8	11.1	18.3	24.1	22.4	18.2	18.8	22.8
SE	.7	9.1	16.8	5.8	.9	*		33.3	15.5	37.3	29.5	35.0	32.5	30.7	36.8	34.0	27.7
S	.2	3.3	6.7	2.9	.5	.1		13.6	16.6	15.4	16.4	18.1	12.4	15.2	12.3	10.5	9.4
SW	.2	1.9	1.5	.2	.0	*		3.9	11.9	5.6	6.1	2.6	1.8	2.1	3.3	4.1	6.9
W	.3	1.2	1.0	.3	.0	.0		2.8	11.3	3.6	2.9	.2	1.1	1.7	3.0	3.7	7.4
NW	.4	3.1	1.1	.1	.0	.0		4.7	8.5	7.4	5.7	1.9	2.9	3.8	3.6	5.3	9.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0	.9	5.7	1.9	1.5	1.0	.7	3.4	.0
TOT OBS	91	484	482	132	19	2	1210		12.5	112	122	209	137	105	151	262	112
TOT PCT	7.5	40.0	39.8	10.9	1.6	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.7	4.5	.8	.0	.0		9.0	8.7	9.3	9.3	8.6	8.8
NE	5.2	5.5	1.0	*	.0		11.7	8.7	9.2	13.3	14.0	10.3
E	4.8	10.1	3.4	.4	.1		18.9	11.4	13.4	20.6	19.9	20.0
SE	3.1	16.5	11.2	2.4	.1		33.3	15.5	33.2	34.0	34.3	32.1
S	1.3	5.9	4.8	1.5	.1		13.6	16.6	15.9	15.8	13.5	10.2
SW	1.3	1.5	.8	.2	*		3.9	11.9	5.9	2.3	2.8	4.9
W	.8	1.4	.4	.2	.0		2.8	11.3	3.2	.6	2.4	4.8
NW	1.9	2.7	.2	.0	.0		4.7	8.5	6.5	2.3	3.7	6.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	3.4	1.7	.8	2.4
TOT OBS	292	583	273	58	4	1210		12.5	234	346	256	374
TOT PCT	24.1	48.2	22.6	4.8	.3		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1877-1973

AREA 0005 BRISBANE
26.8S 153.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.4	8.1	33.3	39.7	13.7	1.3	.4	12.9	100.0	234
06&09	1.7	5.8	42.5	38.4	8.7	2.6	.3	12.5	100.0	346
12&15	.8	2.3	42.6	42.6	10.9	.8	.0	12.7	100.0	256
18&21	2.4	5.6	40.1	39.3	11.2	1.3	.0	12.2	100.0	374
TOT	25	66	484	482	132	19	2	12.5		1210
PCT	2.1	5.5	40.0	39.8	10.9	1.6	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.1	1.6	1.9	.8		3.0
NE	3.6	1.7	2.7	.9		3.8
E	6.2	3.3	7.3	2.0		4.1
SE	8.5	10.8	10.1	5.9		4.5
S	4.8	2.4	5.8	3.3		4.7
SW	.6	.4	1.3	.0		5.2
W	1.9	.0	.2	.4		2.6
NW	2.0	1.3	.8	.7		3.4
VAR	.0	.0	.0	.0		.0
CALM	1.0	.5	.2	.2		3.0
TOT OBS	132	89	123	61	405	4.2
TOT PCT	32.6	22.0	30.4	15.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT: NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.4	.6	.2	.0	.0	.0	.0	7.0	
NE	.0	.0	.0	1.0	.6	.2	.2	.0	.0	.0	6.9	
E	.0	.0	.0	2.2	1.5	1.5	.5	.0	.0	.0	13.1	
SE	.2	.0	.5	3.2	6.0	2.1	.3	.2	.0	.1	22.6	
S	.2	.0	.5	1.5	2.2	1.9	.9	.2	.0	.4	8.3	
SW	.0	.0	.0	.2	.6	.7	.3	.0	.0	.0	1.3	
W	.0	.0	.0	.2	.2	.0	.0	.0	.0	.2	1.9	
NW	.0	.0	.0	.3	.4	.5	.0	.0	.0	.1	3.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	1.7	
TOT OBS	2	0	4	38	49	29	9	2	0	3	269	405
TOT PCT	.5	.0	1.0	9.4	12.1	7.2	2.2	.5	.0	.7	66.4	100.0

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 >50YD	= OR >0
= OR >6500	.7	.7	.7	.7	.7	.7	.7	.7
= OR >5000	.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2
= OR >3500	2.2	3.4	3.4	3.4	3.4	3.4	3.4	3.4
= OR >2000	8.3	10.8	10.8	10.8	10.8	10.8	10.8	10.8
= OR >1000	16.4	22.1	22.8	22.8	22.8	22.8	22.8	22.8
= OR >600	22.1	30.6	32.1	32.1	32.1	32.1	32.1	32.1
= OR >300	22.5	31.4	32.8	33.1	33.1	33.1	33.1	33.1
= OR >150	22.5	31.4	32.8	33.1	33.1	33.1	33.1	33.1
= OR > 0	22.8	31.6	33.3	33.6	33.6	33.6	33.6	33.6
TOTAL	93	129	136	137	137	137	137	137

TOTAL NUMBER OF OBS: 408 PCT FREQ NH <5/8: 66.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.8	14.4	16.7	15.8	10.7	7.1	7.6	7.3	12.2	.4	450

MARCH

PERIOD: (PRIMARY) 1913-1973
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.2	.1	.1	.3	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.3	.1	.1	.4	.0	.0	.0	.0	.0	1.0	
1<2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.3	.1	.0	.1	.0	.0	.0	.0	.0	.5	
2<5	PCP	.0	.2	.3	.1	.2	.0	.0	.0	.0	.1	.9	
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.2	.3	.2	.2	.0	.0	.0	.0	.1	1.0	
5<10	PCP	.3	.8	1.5	3.5	1.9	.5	.1	.3	.0	.0	8.9	
	NO PCP	3.4	4.0	7.3	14.0	4.8	1.0	1.0	1.3	.0	.1	36.9	
	TOT %	3.8	4.8	8.7	17.5	6.7	1.4	1.1	1.6	.0	.1	45.8	
10+	PCP	.1	.1	.4	1.4	.5	.1	.0	.2	.0	.0	2.8	
	NO PCP	4.6	4.7	9.9	16.3	7.1	1.4	1.2	2.6	.0	1.0	48.8	
	TOT %	4.7	4.9	10.3	17.7	7.6	1.6	1.2	2.7	.0	1.0	51.7	
	TOT OBS												778
	TOT PCT	8.5	10.4	19.6	35.5	15.2	3.0	2.3	4.3	.0	1.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.2	.1	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.1	.0	.1	.1	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.3	.0	.0	.0	.0		.3	
	TOT %	.0	.3	.1	.1	.4	.0	.0	.0	.0	.0	.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.1	.0	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	TOT %	.0	.2	.1	.0	.1	.0	.0	.0	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	11-21	.0	*	.1	*	.2	.0	.0	.0	.0		.3	
	22+	.0	.1	.2	.2	.1	.0	.0	.0	.0		.6	
	TOT %	.0	.1	.3	.3	.3	.0	.0	.0	.0	.1	1.2	
5<10	0-3	.8	.2	.3	.3	.0	.1	.1	.1	.0	.1	2.0	
	4-10	1.7	4.0	4.4	5.1	1.1	.8	.4	1.2	.0		18.7	
	11-21	.9	.3	3.1	8.7	3.4	.3	.5	.2	.0		17.6	
	22+	.0	.0	.2	2.2	1.7	.1	.1	.0	.0		4.3	
	TOT %	3.4	4.5	8.1	16.3	6.3	1.3	1.1	1.5	.0	.1	42.6	
10+	0-3	.5	.1	.5	.4	.3	.1	.2	.2	.0	1.5	3.8	
	4-10	2.3	3.0	4.7	4.7	2.3	.7	.9	1.7	.0		20.3	
	11-21	2.0	1.7	4.4	10.0	3.6	.7	.3	1.0	.0		23.7	
	22+	.0	.1	.6	4.5	1.5	.1	.0	.1	.0		7.0	
	TOT %	4.8	4.8	10.2	19.6	7.8	1.7	1.3	3.1	.0	1.5	54.8	
	TOT OBS												859
	TOT PCT	8.2	10.0	18.9	36.4	14.8	3.0	2.4	4.5	.0	1.7	100.0	

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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
00&03	.0	.0	1.8	8.0	9.7	9.7	2.7	.0	.0	.9	32.7	67.3	113
06&09	.0	.0	2.0	3.9	14.7	6.9	2.0	2.0	.0	2.0	33.3	66.7	102
12&15	1.0	.0	.0	5.8	10.7	4.9	1.9	.0	.0	.0	24.3	75.7	103
18&21	.9	.0	.0	16.8	10.6	6.2	1.8	.0	.0	.0	36.3	63.7	113
TOT	2	0	4	38	49	30	9	2	0	3	137	294	431
PCT	.5	.0	.9	8.8	11.4	7.0	2.1	.5	.0	.7	31.8	68.2	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
00&03	.0	1.1	.0	.6	32.4	65.9	176
06&09	.0	1.7	.8	.8	49.6	47.1	242
12&15	.0	1.0	.5	2.1	37.1	59.3	194
18&21	.0	.7	.4	1.1	48.9	48.9	272
TOT	0	10	4	10	382	478	884
PCT	.0	1.1	.5	1.1	43.2	54.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.9	11.3	23.6	65.1	106
06&09	.0	2.0	7.1	27.6	65.3	98
12&15	1.0	1.0	7.1	18.4	74.5	98
18&21	.9	.9	19.8	18.9	61.3	106
TOT	2	6	47	90	271	408
PCT	.5	1.5	11.5	22.1	66.4	100.0

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
85/89	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
80/84	.0	.0	.0	.3	3.1	3.1	1.6	.5	50	8.7
75/79	.0	.0	.0	2.4	12.0	27.4	13.0	5.4	347	60.1
70/74	.0	.0	.0	1.7	6.9	9.0	7.5	4.0	168	29.1
65/69	.0	.0	.0	.0	.0	.2	.5	1.2	11	1.9
TOTAL	0	0	0	26	128	229	130	64	577	100.0
PCT	.0	.0	.0	4.5	22.2	39.7	22.5	11.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
	1.7	.9	1.6	2.1	1.1	.2	.0	1.0	.0	.0
	5.5	7.3	13.6	20.4	6.7	1.2	1.4	2.8	.0	1.2
	1.4	2.5	4.4	10.1	6.5	1.8	.9	1.3	.0	.2
	.0	.1	.3	.7	.3	.3	.3	.0	.0	.0
	8.7	11.0	20.0	33.3	14.6	3.5	2.6	5.1	.0	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	83	82	82	77	72	68	65	76.9	229
06&09	87	84	81	76	71	67	63	76.3	340
12&15	82	80	79	75	71	67	64	75.1	258
18&21	82	80	79	75	70	67	66	74.7	374
TOT	87	82	80	76	71	67	63	75.6	1201

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	9.6	32.0	29.6	23.2	5.6	73	125
06&09	.0	4.2	22.5	45.1	16.2	12.0	75	142
12&15	.0	3.6	17.9	41.4	25.7	11.4	77	140
18&21	.0	2.7	17.6	40.4	26.1	13.3	78	188
TOT	0	28	130	235	137	65	76	595

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.1	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.1	.0	1	.0	.1
9/10	.0	.0	.1	.1	.1	.0	3	.1	.3
7/8	.0	.0	.1	.3	.0	.0	3	.0	.4
6	.0	.0	.3	.1	.0	.1	4	.0	.6
5	.0	.0	.3	.9	.3	.1	11	.0	1.6
4	.0	.0	.1	.6	.4	.0	8	.0	1.2
3	.0	.1	.7	.6	.9	.0	16	.1	2.2
2	.0	.3	.6	1.9	1.3	.0	28	.1	4.0
1	.0	.4	1.9	4.8	.7	.0	53	.1	7.7
0	.0	.6	5.9	7.7	.3	.0	98	.0	14.6
-1	.1	.7	10.1	4.5	.1	.0	105	.0	15.6
-2	.0	.1	11.7	5.2	.0	.0	115	.1	16.9
-3	.0	.9	9.4	1.9	.0	.0	82	.0	12.2
-4	.0	1.6	5.5	.9	.0	.0	54	.0	8.0
-5	.0	1.6	3.3	.3	.0	.0	35	.1	5.1
-6	.0	1.2	2.4	.3	.0	.0	26	.0	3.9
-7/-8	.1	1.5	1.8	.1	.0	.0	24	.0	3.6
-9/-10	.0	.3	.6	.0	.0	.0	6	.0	.9
TOTAL	2	64	370	205	30	2	673	6	667
PCT	.3	9.5	55.0	30.5	4.5	.3	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5
1-2	.6	1.9	.5	.0	.0	.0	3.0
3-4	.0	1.5	1.3	.0	.0	.0	2.8
5-6	.0	.3	1.3	.0	.0	.0	1.6
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.8	4.1	3.4	.0	.0	.0	8.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.3	.0	.0	.0	.0	1.4
1-2	.0	3.5	1.6	.0	.0	.0	5.1
3-4	.0	1.3	1.0	.0	.0	.0	2.3
5-6	.0	.0	.7	.0	.0	.0	.7
7	.0	.3	.6	.0	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.1	6.3	3.9	.0	.0	.0	10.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.3	.0	.0	.0	1.3
1-2	.0	3.8	1.4	.0	.0	.0	5.2
3-4	.0	2.5	2.4	.2	.0	.0	5.2
5-6	.0	.0	2.8	.3	.0	.0	3.1
7	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	7.2	8.0	.5	.0	.0	15.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	.0	.0	.0	.0	1.3
1-2	.3	2.6	2.2	.0	.0	.0	5.1
3-4	.3	1.4	5.2	2.7	.0	.0	9.6
5-6	.0	.4	7.4	3.7	.6	.0	12.1
7	.0	.0	1.8	2.1	.9	.0	4.8
8-9	.0	.0	.4	1.6	.0	.0	2.1
10-11	.0	.0	.0	.9	.3	.0	1.2
12	.0	.0	.0	.6	.0	.0	.6
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
TOT PCT	.9	5.4	17.1	11.6	1.8	.0	36.7

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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5	.0	.6	.0	.0	.0	.0	.6
1-2	.0	1.7	.7	.0	.0	.0	2.4	.0	.7	.0	.0	.0	.0	.7
3-4	.0	1.3	1.3	.0	.0	.0	2.7	.0	.4	1.3	.4	.0	.0	2.1
5-6	.0	.2	2.6	.7	.3	.0	3.8	.0	.1	.1	.0	.0	.0	.1
7	.0	.0	1.9	1.2	.0	.0	3.1	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.3	.7	1.6	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.3	.0	.3	.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	.3	.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	.3	.0	.0	.3	.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
TOT PCT	.0	4.1	7.3	4.4	.9	.0	16.7	.0	1.8	1.5	.4	.0	.0	3.7

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	1.2	.0	.0	.0	.0	1.2	
1-2	.0	.7	.0	.0	.0	.0	.7	.3	1.0	.0	.0	.0	.0	1.3	
3-4	.0	.3	.0	.2	.0	.0	.5	.0	.1	1.3	.0	.0	.0	1.5	
5-6	.0	.2	.5	.0	.0	.0	.7	.0	.0	.8	.0	.0	.0	.8	
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	
TOT PCT	.0	1.5	.5	.2	.0	.0	2.3	.3	2.4	2.1	.0	.0	.0	4.8	98.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	6.2	.3	.0	.0	.0	9.1	
1-2	1.2	15.8	6.5	.0	.0	.0	23.5	
3-4	.3	8.8	13.8	3.5	.0	.0	26.4	
5-6	.0	1.2	16.1	4.7	.9	.0	22.9	
7	.0	.3	5.9	3.2	.9	.0	10.3	
8-9	.0	.3	1.2	3.2	.0	.0	4.7	
10-11	.0	.0	.0	1.2	.3	.0	1.5	
12	.0	.0	.0	.9	.0	.0	.9	
13-16	.0	.0	.0	.0	.3	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.3	.0	.0	.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	
								341
TOT PCT	4.1	32.6	43.7	17.0	2.6	.0	100.0	

PERIOD: (OVER-ALL) 1949-1979

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	9.0	11.9	5.2	2.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123	3
6-7	.0	.0	5.0	11.7	4.2	2.7	1.0	.0	1.7	.0	.2	.5	.2	.0	.0	.0	.0	.0	.0	110	7
8-9	.0	.2	.7	4.7	5.7	5.5	2.2	.7	1.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	88	8
10-11	.0	.5	1.2	2.5	1.5	1.0	1.2	.7	.2	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	38	7
12-13	.0	.0	.0	.2	.2	1.0	.0	1.5	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	14	10
>13	.0	.0	.0	.5	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
INDET	.7	.2	1.5	1.5	.7	.0	.5	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	6
TOTAL	10	40	82	106	60	43	20	15	15	4	3	2	2	0	0	0	0	0	0	402	6
PCT	2.5	10.0	20.4	26.4	14.9	10.7	5.0	3.7	3.7	1.0	.7	.5	.5	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1860-1972

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.6	4.8	.0	.0	.0	.0	.0	6.5	.0	3.2	.0	.0	1.6	.0	88.7
NE	9.2	10.0	1.5	.0	.0	.0	.0	20.8	.0	1.5	.0	.0	.0	.0	77.7
E	5.5	12.9	2.1	.0	.0	.0	.0	20.4	1.4	1.0	.0	.0	.7	.0	76.8
SE	5.3	8.7	1.5	.0	.0	.0	.0	15.5	5.3	.2	.0	.0	.0	.0	79.2
S	6.3	6.8	1.3	.0	.0	.0	.0	14.5	2.7	.0	.0	.0	1.3	.0	81.5
SW	5.1	10.7	.0	.0	.0	.0	.0	15.9	4.2	1.9	.0	.0	.0	.0	79.9
W	.0	3.6	.0	.0	.0	.0	.0	3.6	.0	5.8	.0	.0	2.9	.0	87.8
NW	.0	2.8	.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	2.8	.0	94.5
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	.0	.0	100.0
TOT PCT	5.0	8.5	1.2	.0	.0	.0	.0	14.7	2.5	1.1	.0	.0	.8	.0	81.2
TOT OBS:	755														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.8	7.1	1.4	.0	.0	.0	.0	11.3	7.1	.0	.0	.0	2.1	.0	79.4
06&09	7.1	9.0	.9	.0	.0	.0	.0	17.0	2.4	1.9	.0	.0	.0	.0	79.2
12&15	4.5	5.1	1.1	.0	.0	.0	.0	10.7	.0	.6	.0	.0	.6	.0	88.1
18&21	4.7	11.0	1.3	.0	.0	.0	.0	16.9	1.7	1.3	.0	.0	.8	.0	79.7
TOT PCT	5.0	8.4	1.2	.0	.0	.0	.0	14.5	2.5	1.0	.0	.0	.8	.0	81.5
TOT OBS:	766														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.6	3.7	2.8	.4	.0	.0		8.5	9.4	5.8	11.7	9.6	10.4	10.2	6.2	7.7	6.0
NE	1.1	4.4	2.2	.2	.0	.0		7.9	8.8	4.0	5.1	6.4	10.8	14.8	10.1	7.9	3.4
E	1.5	8.3	7.3	1.2	.7	.0		18.9	12.0	15.9	15.6	18.9	23.6	20.4	24.7	18.6	10.8
SE	.9	7.5	14.0	3.9	.8	.0		27.1	15.1	28.7	21.3	34.7	31.8	22.8	27.3	22.7	27.2
S	.8	5.0	8.3	3.4	.5	.0		17.9	15.4	18.6	22.1	19.9	16.5	14.8	14.3	18.9	17.2
SW	.9	2.6	3.3	1.0	.3	.0		8.1	13.4	10.4	11.7	3.1	2.8	6.1	5.8	9.8	18.5
W	.7	2.1	1.6	.4	.0	.0		4.7	10.2	7.3	5.9	3.3	2.4	4.6	3.9	5.5	6.5
NW	.3	2.9	2.4	.1	.0	.0		5.7	9.9	8.2	5.9	2.5	1.0	5.3	7.1	7.6	8.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1							1.1	.0	1.2	.8	1.6	.7	1.0	.6	1.2	1.7
TOT OBS	102	420	481	124	27	0	1154		12.7	82	128	183	144	103	154	244	118
TOT PCT	8.8	36.4	41.7	10.7	2.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.6	3.4	1.5	*	.0		8.5	9.4	9.4	9.9	7.8	7.2
NE	3.1	4.0	.8	.0	.0		7.9	8.8	4.6	8.3	12.0	6.5
E	5.4	8.9	3.5	1.1	.0		18.9	12.0	15.7	20.9	23.0	16.1
SE	3.1	13.1	9.1	1.7	.1		27.1	15.1	24.2	33.4	25.5	24.2
S	2.0	8.8	5.2	1.9	*		17.9	15.4	20.7	18.4	14.5	18.3
SW	2.2	3.3	2.0	.6	.0		8.1	13.4	11.2	3.0	5.9	12.6
W	1.6	2.3	.8	.0	.0		4.7	10.2	6.4	2.9	4.2	5.8
NW	2.2	2.8	.6	*	.0		5.7	9.9	6.8	1.8	6.4	7.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.1						1.1	.0	1.3	1.2	.8	1.4
TOT OBS	280	539	271	62	2	1154		12.7	210	327	257	360
TOT PCT	24.3	46.7	23.5	5.4	.2		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1913-1972
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.0	9.0	28.1	48.1	11.9	1.9	.0	13.3	100.0	210
06&09	1.2	8.6	36.7	39.1	11.3	3.1	.0	12.8	100.0	327
12&15	.8	5.1	42.8	39.7	10.5	1.2	.0	12.5	100.0	257
18&21	1.4	8.1	36.4	41.7	9.7	2.8	.0	12.5	100.0	360
TOT	13	89	420	481	124	27	0	12.7		1154
PCT	1.1	7.7	36.4	41.7	10.7	2.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.0	2.4	1.4	.4		2.8
NE	4.3	2.5	1.1	.9		2.9
E	7.7	3.5	3.2	3.9		4.1
SE	5.7	8.4	9.5	3.8		4.5
S	7.7	4.4	2.5	4.0		3.7
SW	3.4	1.4	.8	1.4		3.1
W	3.1	.2	.4	.1		1.7
NW	3.1	.9	1.8	.4		3.0
VAR	.0	.0	.0	.0		.0
CALM	1.1	.0	.3	.0		2.2
TOT OBS	140	83	73	52	348	3.7
TOT PCT	40.2	23.9	21.0	14.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.2	.9	.4	.2	.0	.0	.0	6.7	
NE	.1	.0	.1	.0	.1	1.0	.0	.0	.0	.3	7.3	
E	.2	.2	.8	1.1	2.2	.8	.3	.5	.0	.0	12.1	
SE	.3	.1	.3	1.9	2.8	2.4	.9	.1	.1	.0	18.8	
S	.0	.0	.0	.7	3.6	.3	.3	.0	.2	.0	13.5	
SW	.3	.0	.0	.4	.8	.1	.0	.0	.0	.0	5.5	
W	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	3.5	
NW	.0	.0	.0	.1	.3	.5	.4	.0	.0	.0	5.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
TOT OBS	3	1	4	15	37	20	7	2	1	1	257	348
TOT PCT	.9	.3	1.1	4.3	10.6	5.7	2.0	.6	.3	.3	73.9	100.0

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 >500YD	= OR >0
= OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
= OR >5000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >3500	2.6	2.6	2.6	2.9	2.9	2.9	2.9	2.9
= OR >2000	7.8	8.3	8.3	8.6	8.6	8.6	8.6	8.6
= OR >1000	16.1	18.7	19.0	19.3	19.3	19.3	19.3	19.3
= OR >600	19.5	23.0	23.3	23.6	23.6	23.6	23.6	23.6
= OR >300	19.8	23.9	24.4	24.7	24.7	24.7	24.7	24.7
= OR >150	19.8	24.1	24.7	25.0	25.0	25.0	25.0	25.0
= OR > 0	20.1	25.0	25.6	25.9	25.9	25.9	25.9	25.9
TOTAL	70	87	89	90	90	90	90	90

TOTAL NUMBER OF OBS: 348

PCT FREQ NH <5/8: 74.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
12.0	18.4	17.8	13.8	10.9	6.1	5.6	5.3	9.6	.5	376

APRIL

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1860-1972

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
1<2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.3	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.1	.0	.0	.4	
2<5	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.3	
5<10	PCP	.5	1.8	3.5	3.2	1.9	1.0	.1	.1	.0	.0	12.1	
	NO PCP	3.0	2.7	6.1	10.1	8.3	2.6	2.4	1.7	.0	.0	36.7	
	TOT %	3.5	4.4	9.6	13.4	10.1	3.5	2.5	1.8	.0	.0	48.8	
10+	PCP	.0	*	.3	.6	.8	*	.1	.0	.0	.0	1.9	
	NO PCP	4.7	4.2	9.2	12.4	8.8	3.4	2.1	2.9	.0	.8	48.3	
	TOT %	4.7	4.2	9.5	13.0	9.5	3.4	2.2	2.9	.0	.8	50.1	
	TOT OBS												754
	TOT PCT	8.2	8.6	19.3	26.8	19.9	7.0	4.6	4.8	.0	.8	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.1	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.1	.0	.0	.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.2	.2	.1	.0	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.4	.2	.1	.0	.0	.0	.0	.0	.7	
5<10	0-3	.7	.5	.6	.3	.3	.2	.4	.1	.0	.0	3.1	
	4-10	1.0	1.7	3.1	3.0	3.1	1.1	1.5	.7	.0		15.2	
	11-21	1.1	1.5	3.9	7.7	4.3	1.4	.5	.7	.0		21.2	
	22+	.4	.3	1.5	2.3	1.8	.9	.0	.1	.0		7.3	
	TOT %	3.2	4.0	9.1	13.2	9.5	3.6	2.4	1.7	.0	.0	46.7	
10+	0-3	.8	.7	1.4	.7	.8	.8	.4	.1	.0	.7	6.3	
	4-10	2.4	2.7	4.9	3.0	2.1	1.7	.9	1.4	.0		19.0	
	11-21	1.6	.9	3.2	7.2	4.7	1.7	.8	1.4	.0		21.5	
	22+	.1	.0	.1	2.2	1.8	.5	.3	*	.0		5.0	
	TOT %	4.9	4.3	9.6	13.0	9.4	4.7	2.4	2.9	.0	.7	51.8	
	TOT OBS												841
	TOT PCT	8.1	8.3	19.1	26.9	19.1	8.3	4.8	4.7	.0	.7	100.0	

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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
00&03	2.4	.0	1.2	2.4	8.3	4.8	1.2	.0	.0	.0	20.2	79.8	84
06&09	.0	1.1	1.1	4.6	19.5	3.4	1.1	1.1	.0	1.1	33.3	66.7	87
12&15	.0	.0	.0	2.0	3.0	10.1	3.0	1.0	.0	.0	19.2	80.8	99
18&21	1.1	.0	2.1	7.4	10.5	3.2	2.1	.0	1.1	.0	27.4	72.6	95
TOT	3	1	4	15	37	20	7	2	1	1	91	274	365
PCT	.8	.3	1.1	4.1	10.1	5.5	1.9	.5	.3	.3	24.9	75.1	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
00&03	.0	.0	.0	1.4	39.9	58.8	148
06&09	.4	.0	.0	1.3	52.3	46.0	237
12&15	.0	.0	1.0	.5	37.9	60.6	198
18&21	.0	.7	.4	.0	52.4	46.5	269
TOT	1	2	3	6	399	441	852
PCT	.1	.2	.4	.7	46.8	51.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	2.5	3.8	6.3	15.0	78.8	80
06&09	.0	2.4	8.5	26.8	64.6	82
12&15	.0	.0	3.1	16.7	80.2	96
18&21	1.1	3.3	11.1	16.7	72.2	90
TOT	3	8	25	65	258	348
PCT	.9	2.3	7.2	18.7	74.1	100.0

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
80/84	.0	.0	.0	.3	.7	.7	.3	.0	12	2.0
75/79	.0	.2	.3	2.7	7.0	13.4	7.3	3.0	203	33.9
70/74	.0	.2	.8	3.0	11.4	17.7	13.2	5.7	311	51.9
65/69	.0	.0	.7	.8	1.3	1.2	3.0	3.3	62	10.4
60/64	.0	.0	.5	.0	.0	.0	.2	.0	4	.7
55/59	.0	.0	.0	.3	.0	.2	.2	.5	7	1.2
TOTAL	0	2	14	43	122	198	145	75	599	100.0
PCT	.0	.3	2.3	7.2	20.4	33.1	24.2	12.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.4	.2	.0	*	.6	.0	.5	.3	.0	.0
4.5	3.8	8.2	7.1	4.5	.8	1.1	3.7	.0	.3
3.3	4.0	10.6	16.7	9.4	3.9	1.9	1.6	.0	.5
.1	.1	1.4	1.8	3.2	2.1	1.7	.1	.0	.0
.0	.0	.0	.0	.5	.2	.0	.0	.0	.0
.0	.0	.0	.2	.3	.5	.2	.0	.0	.0
8.3	8.1	20.2	25.7	18.5	7.4	5.3	5.6	.0	.8

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	82	80	75	69	62	58	74.6	212
06&09	82	81	79	74	69	66	60	74.0	323
12&15	79	78	78	73	69	64	61	73.0	256
18&21	83	79	77	73	66	58	58	72.2	360
TOT	85	80	78	73	68	59	58	73.3	1151

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	11.7	24.3	39.8	19.4	4.9	72	103
06&09	.0	10.7	21.4	30.8	26.4	10.7	75	159
12&15	.0	7.3	22.7	36.0	22.0	12.0	75	150
18&21	.0	9.7	15.9	28.2	28.2	17.9	77	195
TOT	0	59	124	199	150	75	75	607

APRIL

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
7/8	.0	.0	.0	.0	.2	.5	.2	5	.0	.8
6	.0	.0	.0	.0	.0	.2	.2	2	.0	.3
5	.0	.0	.0	.3	.3	.2	.3	7	.0	1.1
4	.0	.0	.0	.2	.6	.5	.3	10	.0	1.6
3	.0	.0	.0	.3	2.0	.8	.3	22	.0	3.5
2	.0	.0	.0	.2	2.2	1.6	.2	26	.0	4.1
1	.0	.0	.0	1.3	4.1	4.2	.0	61	.0	9.6
0	.0	.0	.0	2.0	7.2	2.7	.0	76	.0	11.9
-1	.0	.0	.0	2.8	10.2	1.9	.0	95	.0	14.9
-2	.0	.0	.3	3.6	9.9	.8	.0	93	.0	14.6
-3	.0	.2	.5	4.2	5.3	.2	.0	66	.0	10.4
-4	.0	.0	.3	4.6	3.5	.2	.0	54	.0	8.5
-5	.0	.2	.2	2.8	3.0	.3	.0	41	.0	6.4
-6	.0	.2	.6	2.0	1.9	.0	.0	30	.0	4.7
-7/-8	.2	.3	1.7	2.8	.3	.0	.0	34	.0	5.3
-9/-10	.0	.0	.6	.6	.0	.0	.0	8	.0	1.3
-11/-13	.0	.3	.3	.2	.0	.0	.0	5	.0	.8
-14/-16	.0	.2	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	1	8	29	178	323	89	9	637	0	637
PCT	.2	1.3	4.6	27.9	50.7	14.0	1.4	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	2.6	.3	.0	.0	.0	2.9
3-4	.3	.5	1.4	.0	.0	.0	2.2
5-6	.0	.0	.4	.4	.0	.0	.7
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.3	4.6	2.3	.4	.0	.0	7.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.3	.0	.0	.0	.0	1.6
1-2	.0	4.5	.4	.0	.0	.0	4.8
3-4	.1	1.3	.4	.0	.0	.0	1.7
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.5	7.0	1.2	.1	.0	.0	8.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.8	1.4	.0	.0	.0	.0	3.2
1-2	.4	4.4	.4	.0	.0	.0	5.1
3-4	.0	3.2	3.0	.0	.0	.0	6.2
5-6	.0	.7	2.9	.3	.0	.0	3.9
7	.0	.0	.4	.3	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.4	.0	.0	.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
TOT PCT	2.2	9.7	7.0	.8	.0	.0	19.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.4	1.6	1.8	.0	.0	.0	3.7
3-4	.0	1.8	5.2	.5	.0	.0	7.6
5-6	.0	.7	6.7	1.6	.4	.0	9.3
7	.0	.0	3.6	.8	.0	.0	4.5
8-9	.0	.0	1.2	.8	.1	.0	2.1
10-11	.0	.0	.0	1.5	.0	.0	1.5
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	.1	.0	.1
26-32	.0	.0	.0	.1	.1	.0	.2
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
TOT PCT	.4	5.0	18.5	5.4	.6	.0	29.9

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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	.5	.0	.0	.0	.0	1.6	.1	.4	.0	.0	.0	.0	.5
1-2	.4	1.0	1.1	.0	.0	.0	2.5	.0	.9	.1	.0	.0	.0	1.0
3-4	.0	1.6	2.3	.9	.0	.0	4.8	.0	.5	.8	.0	.0	.0	1.4
5-6	.0	.0	2.6	.7	.0	.0	3.4	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	1.1	1.2	.0	.0	2.3	.0	.0	.5	1.3	.0	.0	1.7
8-9	.0	.0	.9	1.2	.3	.0	2.4	.0	.0	.5	.5	.0	.0	1.0
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.4	.0	.4	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.0	.0	.4	.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	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.3	.3	.0	.5	.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
TOT PCT	1.4	3.2	8.0	5.0	.8	.0	18.4	.1	1.8	2.6	1.8	.4	.0	6.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.7	.0	.0	.0	.0	.7	
1-2	.4	.3	.6	.0	.0	.0	1.3	.0	.8	.1	.0	.0	.0	.9	
3-4	.0	.4	.4	.0	.0	.0	.7	.0	.5	1.2	.0	.0	.0	1.6	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7	
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.8	.0	.0	.0	.8	
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	
TOT PCT	.4	1.0	1.3	.0	.0	.0	2.6	.0	2.0	2.8	.0	.0	.0	4.8	98.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.7	6.9	.0	.0	.0	.0	11.7	
1-2	1.5	16.1	4.7	.0	.0	.0	22.3	
3-4	.4	9.9	14.6	1.5	.0	.0	26.3	
5-6	.0	1.5	13.9	2.9	.4	.0	18.6	
7	.0	.0	6.9	3.6	.0	.0	10.6	
8-9	.0	.0	2.9	2.6	.4	.0	5.8	
10-11	.0	.0	.4	1.8	.4	.0	2.6	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.4	.4	.0	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.4	.0	.4	
26-32	.0	.0	.0	.4	.4	.0	.7	
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	
TOT PCT	6.6	34.3	43.8	13.5	1.8	.0	100.0	274

PERIOD: (OVER-ALL) 1949-1972

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	7.6	11.0	6.7	2.0	1.7	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	107	4
6-7	.0	1.7	11.9	10.5	6.7	2.6	.9	.9	1.7	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	129	6
8-9	.0	.6	2.9	4.4	5.2	2.9	1.5	1.2	.6	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	69	7
10-11	.0	.3	.6	.6	1.5	.9	1.2	.6	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	8
12-13	.0	.0	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	4	19
>13	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
INDET	.3	.6	.3	.6	.6	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	6
TOTAL	5	37	92	79	56	30	14	11	12	4	0	1	3	0	0	0	0	0	0	344	6
PCT	1.5	10.8	26.7	23.0	16.3	8.7	4.1	3.2	3.5	1.2	.0	.3	.9	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1870-1972

AREA 0005 BRISBANE
26.7S 153.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.7	1.6	.0	.0	.0	.0	.0	5.3	.0	3.7	.0	.0	1.6	.0		89.3
NE	6.3	.0	3.4	.0	.0	.0	.0	9.8	2.0	3.9	.0	.0	.0	.0		84.4
E	6.3	12.9	2.1	.0	.0	.0	.0	21.3	5.6	2.3	.0	.0	.0	.0		70.7
SE	2.9	11.6	.0	.0	.0	.0	.0	14.5	1.7	.7	2.1	.0	.0	.0		81.0
S	2.7	6.0	.6	.0	.0	.0	.0	8.7	1.6	.0	.0	.0	.0	.0		89.7
SW	.2	.0	.7	.0	.0	.0	.0	.9	.0	2.9	.0	.0	4.6	.0		91.6
W	.0	1.0	1.0	.0	.0	.0	.0	2.1	.0	1.8	.0	.0	2.3	1.0		92.8
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.4	.0		98.7
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	6.9	.0		93.1
TOT PCT	2.5	5.0	.8	.0	.0	.0	.0	8.2	1.4	1.7	.4	.0	1.4	.1		86.8
TOT OBS:	844															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.7	1.6	1.6	.0	.0	.0	.0	5.5	2.2	.0	.0	.0	.5	.5		91.3
06&09	2.6	8.3	.4	.0	.0	.0	.0	11.4	.4	.4	.9	.0	.4	.0		86.4
12&15	3.1	5.6	1.0	.0	.0	.0	.0	9.7	2.1	3.1	.5	.0	1.5	.0		83.1
18&21	1.9	4.2	.4	.0	.0	.0	.0	6.4	1.1	2.6	.0	.0	2.6	.0		87.2
TOT PCT	2.5	5.1	.8	.0	.0	.0	.0	8.3	1.4	1.6	.3	.0	1.4	.1		86.9
TOT OBS:	871															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	3.7	1.7	.1	.0	.0		6.9	8.1	5.2	7.4	9.7	10.0	11.1	5.7	4.2	4.4
NE	.9	4.4	1.2	.1	.0	.0		6.5	8.1	7.9	3.5	8.0	8.6	7.5	7.1	5.8	5.0
E	.5	4.5	5.6	.8	.1	.0		11.5	12.6	14.2	7.9	11.2	12.0	19.2	13.1	11.7	6.0
SE	.9	6.0	8.5	2.4	.6	.1		18.5	14.3	17.3	19.7	20.4	23.4	17.5	20.2	15.6	14.4
S	1.0	7.3	8.1	2.0	.8	.0		19.2	13.8	18.9	20.9	23.3	18.6	15.6	16.8	17.7	20.5
SW	1.2	7.8	6.2	.9	.3	.0		16.5	11.5	17.1	16.5	9.7	8.9	9.9	17.1	21.8	26.5
W	1.0	5.8	3.7	.2	.0	.0		10.7	9.7	12.2	12.1	9.3	8.6	5.5	9.6	11.3	15.8
NW	.5	4.3	2.0	*	.0	.0		6.8	8.8	3.6	7.4	6.5	4.3	7.0	8.2	8.9	6.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0	3.6	4.7	2.0	5.7	6.7	2.2	3.0	1.3
TOT OBS	143	584	491	86	24	1	1329		11.4	111	170	201	140	104	183	271	149
TOT PCT	10.8	43.9	36.9	6.5	1.8	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.0	3.6	.4	.0	.0		6.9	8.1	6.5	9.8	7.7	4.3
NE	2.7	3.6	.2	.1	.0		6.5	8.1	5.2	8.2	7.2	5.5
E	1.7	6.9	2.5	.4	*		11.5	12.6	10.4	11.5	15.3	9.7
SE	3.8	7.7	5.7	1.1	.2		18.5	14.3	18.8	21.6	19.3	15.2
S	3.0	10.5	4.0	1.5	.1		19.2	13.8	20.1	21.3	16.4	18.7
SW	4.2	8.8	2.8	.6	.1		16.5	11.5	16.7	9.4	14.5	23.5
W	2.9	6.5	1.1	.1	.0		10.7	9.7	12.1	9.0	8.1	12.9
NW	2.2	4.3	.3	.0	.0		6.8	8.8	5.9	5.6	7.8	7.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.4						3.4	.0	4.3	3.5	3.8	2.4
TOT OBS	357	690	226	50	6	1329		11.4	281	341	287	420
TOT PCT	26.9	51.9	17.0	3.8	.5		100.0		100.0	100.0	100.0	100.0

AREA 0005 BRISBANE
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PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1870-1972

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.3	7.8	38.8	38.8	8.9	1.4	.0	11.5	100.0	281
06&09	3.5	10.3	41.9	34.3	7.3	2.3	.3	11.3	100.0	341
12&15	3.8	5.2	48.1	36.6	4.5	1.7	.0	11.0	100.0	287
18&21	2.4	6.2	46.2	38.1	5.9	1.7	.0	11.5	100.0	420
TOT	45	98	584	491	86	24	1	11.4		1329
PCT	3.4	7.4	43.9	36.9	6.5	1.8	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.0	.7	2.9	1.0		4.2
NE	1.7	.2	2.5	2.2		5.2
E	3.9	2.4	3.4	2.5		4.6
SE	5.6	3.6	6.7	.9		3.9
S	7.7	3.8	4.2	1.9		3.4
SW	7.9	2.2	3.9	.9		3.1
W	3.9	1.4	4.2	2.2		4.1
NW	3.9	.6	1.4	.9		3.3
VAR	.0	.0	.0	.0		.0
CALM	4.7	.0	1.0	.0		1.3
TOT OBS	170	60	121	50	401	3.7
TOT PCT	42.4	15.0	30.2	12.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.2	.4	.5	.0	.0	.0	.6	5.9	
NE	.0	.0	.0	.3	1.3	.4	.2	.2	.2	.2	3.6	
E	.0	.0	.2	1.4	2.0	1.0	.2	.0	.0	.0	7.4	
SE	.0	.0	.2	.4	2.3	.9	.3	.0	.0	.0	12.7	
S	.0	.0	.0	1.2	1.1	.7	.5	.2	.2	.2	13.5	
SW	.0	.0	.0	.0	.8	.7	.0	.1	.1	.7	12.5	
W	.0	.0	.0	.0	.2	.4	.5	.0	.2	3.1	7.2	
NW	.0	.0	.0	.0	.2	.3	.0	.0	.0	.4	5.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	5.2	
TOT OBS	0	0	2	15	34	21	7	2	3	21	296	401
TOT PCT	.0	.0	.5	3.7	8.5	5.2	1.7	.5	.7	5.2	73.8	100.0

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 >50YD	= OR >0
= OR >6500	4.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
= OR >5000	5.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
= OR >3500	7.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
= OR >2000	11.5	13.4	13.4	13.4	13.4	13.4	13.4	13.4
= OR >1000	18.3	21.0	21.8	21.8	21.8	21.8	21.8	21.8
= OR >600	19.8	24.2	25.4	25.4	25.4	25.4	25.4	25.4
= OR >300	19.8	24.4	25.9	25.9	25.9	25.9	25.9	25.9
= OR >150	19.8	24.4	25.9	25.9	25.9	25.9	25.9	25.9
= OR > 0	19.8	24.4	25.9	25.9	25.9	25.9	25.9	25.9
TOTAL	81	100	106	106	106	106	106	106

TOTAL NUMBER OF OBS: 409

PCT FREQ NH <5/8: 74.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
17.5	19.3	14.8	13.6	8.6	5.2	9.3	4.5	7.0	.0	440

MAY

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1870-1972

AREA 0005 BRISBANE
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.9	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
2<5	PCP	.1	.1	.5	*	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.1	.6	*	.0	.0	.0	.0	.0	.0	.9	
5<10	PCP	.1	.5	1.5	1.8	1.2	.1	.2	.0	.0	.0	5.5	
	NO PCP	3.1	2.3	3.6	6.0	8.7	7.7	5.7	3.0	.0	.6	40.8	
	TOT %	3.1	2.8	5.2	7.8	9.9	7.8	5.9	3.0	.0	.6	46.2	
10+	PCP	.2	.1	.7	.5	.4	*	.0	.0	.0	.0	1.9	
	NO PCP	3.6	3.1	6.2	7.8	8.4	8.7	5.5	3.7	.0	2.8	49.9	
	TOT %	3.9	3.2	6.8	8.3	8.8	8.7	5.5	3.7	.0	2.8	51.8	
	TOT OBS												844
	TOT PCT	7.2	6.1	12.6	17.1	18.7	16.6	11.6	6.7	.0	3.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.1	.1	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.5	.0	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	TOT %	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.1	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.0	.0	.0	.1	.0	.0		.2	
	11-21	.0	.1	.6	.2	.1	.0	.0	.0	.0		.9	
	22+	.1	*	.0	.0	.2	.1	.0	.0	.0		.3	
	TOT %	.2	.1	.6	.2	.3	.1	.1	.0	.0	.0	1.4	
5<10	0-3	.9	.5	.3	.4	.9	.9	.5	.3	.0	.5	5.1	
	4-10	1.5	1.7	1.8	1.9	3.5	3.0	2.8	1.7	.0		17.9	
	11-21	.2	.5	2.4	3.3	3.4	2.8	1.8	.6	.0		15.0	
	22+	.1	.0	.6	2.1	1.5	.4	.1	*	.0		4.7	
	TOT %	2.7	2.6	5.1	7.7	9.3	7.1	5.2	2.6	.0	.5	42.6	
10+	0-3	.5	.4	.1	.3	.4	.6	.5	.2	.0	2.6	5.7	
	4-10	2.2	2.4	2.9	4.2	4.1	4.5	3.3	2.4	.0		26.0	
	11-21	1.0	.6	3.1	4.4	4.5	3.3	1.8	1.2	.0		19.8	
	22+	.0	.0	.5	1.3	.9	.6	.2	.0	.0		3.5	
	TOT %	3.7	3.4	6.6	10.3	9.8	9.0	5.7	3.8	.0	2.6	54.9	
	TOT OBS												985
	TOT PCT	6.5	6.0	12.2	19.0	19.4	16.2	11.2	6.4	.0	3.1	100.0	

PERIOD: (PRIMARY) 1910-1972
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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
00&03	.0	.0	.0	4.3	8.6	3.4	3.4	.0	.0	6.0	25.9	74.1	116
06&09	.0	.0	.0	2.2	9.7	7.5	.0	.0	1.1	8.6	29.0	71.0	93
12&15	.0	.0	1.8	3.7	4.6	4.6	2.8	1.8	.9	2.8	22.9	77.1	109
18&21	.0	.0	.0	3.5	8.8	5.3	.0	.0	.9	2.7	21.2	78.8	113
TOT	0	0	2	15	34	22	7	2	3	21	106	325	431
PCT	.0	.0	.5	3.5	7.9	5.1	1.6	.5	.7	4.9	24.6	75.4	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
00&03	.0	1.0	.0	.0	33.8	65.2	204
06&09	.0	1.1	.0	.8	48.1	50.0	264
12&15	.0	.4	.4	2.6	39.9	56.6	228
18&21	.3	.6	.0	1.9	47.2	50.0	316
TOT	1	8	1	14	436	552	1012
PCT	.1	.8	.1	1.4	43.1	54.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	4.6	22.9	72.5	109
06&09	.0	.0	3.3	26.7	70.0	90
12&15	.0	1.9	6.8	17.5	75.7	103
18&21	.0	.0	4.7	17.8	77.6	107
TOT	0	2	20	86	303	409
PCT	.0	.5	4.9	21.0	74.1	100.0

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
80/84	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
75/79	.0	.0	.3	1.2	1.6	2.4	.9	.3	39	6.8
70/74	.0	.2	1.9	5.9	14.4	15.3	9.0	3.0	286	49.7
65/69	.0	.0	2.6	4.7	7.7	10.4	5.9	3.1	198	34.4
60/64	.0	.0	.7	2.3	1.9	.7	.7	.9	41	7.1
55/59	.0	.0	.0	.3	.7	.2	.2	.0	8	1.4
50/54	.0	.0	.0	.0	.2	.2	.0	.0	2	.3
TOTAL	0	1	32	84	152	168	96	42	575	100.0
PCT	.0	.2	5.6	14.6	26.4	29.2	16.7	7.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
.8	.8	1.4	1.4	.3	.7	.4	.6	.0	.3
4.9	3.9	9.5	11.7	6.9	5.0	3.2	3.3	.0	1.4
1.2	.7	2.2	3.6	10.0	8.1	5.2	2.5	.0	.9
.0	.0	.0	.0	1.7	3.5	1.1	.1	.0	.7
.0	.0	.0	.0	.3	.6	.4	.0	.0	.2
.0	.0	.0	.0	.0	.2	.2	.0	.0	.0
6.9	5.4	13.1	16.9	19.2	18.0	10.5	6.5	.0	3.5

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	81	79	77	71	63	62	59	70.4	266
06&09	81	79	75	71	65	63	56	70.5	338
12&15	77	75	74	70	63	59	56	69.2	284
18&21	79	77	74	69	61	58	54	68.2	415
TOT	81	78	75	70	63	59	54	69.5	1303

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	24.0	23.2	30.4	14.4	8.0	69	125
06&09	.0	27.3	29.2	29.4	14.7	3.5	68	143
12&15	.0	16.6	28.3	29.0	17.2	9.0	72	145
18&21	.0	17.1	27.6	27.1	19.9	8.3	71	181
TOT	0	124	156	171	100	43	70	594

MAY

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	WO FOG
9/10	.0	.0	.0	.0	.0	.3	.0	.0	2	.0	.3
7/8	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.3
6	.0	.0	.0	.0	.1	.4	.0	.1	5	.0	.7
5	.0	.0	.0	.1	.7	.0	.1	.0	7	.0	.9
4	.0	.0	.0	.0	.7	.1	.4	.0	9	.0	1.2
3	.0	.0	.0	.1	1.1	.4	.3	.0	14	.0	1.9
2	.0	.0	.3	.3	.9	.9	.5	.0	22	.0	3.0
1	.0	.0	.1	.7	1.9	1.3	.4	.0	33	.0	4.4
0	.0	.0	.0	.9	3.2	1.7	.0	.0	44	.0	5.9
-1	.0	.1	.1	1.3	4.7	5.1	.5	.0	89	.3	11.7
-2	.0	.0	.3	1.5	9.1	3.5	.3	.0	109	.0	14.7
-3	.0	.0	.7	2.2	7.1	2.0	.0	.0	89	.1	11.8
-4	.0	.0	.9	3.4	9.5	.8	.0	.0	109	.0	14.7
-5	.0	.0	.4	3.5	5.1	.8	.0	.0	73	.0	9.8
-6	.0	.0	.7	2.8	2.6	.1	.0	.0	46	.0	6.2
-7/-8	.0	.5	.8	4.8	1.5	.1	.0	.0	58	.0	7.8
-9/-10	.1	1.1	1.2	.7	.3	.0	.0	.0	25	.0	3.4
-11/-13	.1	.3	.3	.3	.0	.0	.0	.0	7	.0	.9
-14/-16	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	15	44	168	361	132	20	2	744	3	741
PCT	.3	2.0	5.9	22.6	48.5	17.7	2.7	.3	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	2.3	.0	.0	.0	.0	2.3
3-4	.4	.6	.6	.0	.0	.0	1.6
5-6	.0	.0	.6	.5	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.0	.0	.0	.3
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
TOT PCT	.4	4.3	1.5	.5	.0	.0	6.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.1	.0	.0	.0	.0	1.5
1-2	.4	1.0	.1	.0	.0	.0	1.4
3-4	.0	1.1	1.9	.0	.0	.0	3.1
5-6	.0	.0	.7	.1	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.7	3.3	2.7	.1	.0	.0	6.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	1.3	1.0	.0	.0	.0	2.3
3-4	.4	1.2	4.2	.0	.0	.0	5.8
5-6	.0	.0	3.6	.0	.0	.0	3.6
7	.0	.7	2.1	.0	.0	.0	2.8
8-9	.0	.0	.4	.4	.0	.0	.7
10-11	.0	.0	.0	.6	.0	.0	.6
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
TOT PCT	.4	4.5	11.3	1.0	.0	.0	17.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.6	.0	.0	.0	.0	1.0
1-2	.0	3.4	1.1	.0	.0	.0	4.4
3-4	.0	2.3	2.7	.0	.0	.0	5.0
5-6	.0	1.1	4.2	.4	.0	.0	5.7
7	.1	.0	1.1	.8	.0	.0	1.9
8-9	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	.0	.8	.0	.0	.8
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
TOT PCT	.4	7.3	9.8	1.9	.0	.0	19.5

PERIOD: (OVER-ALL) 1963-1972

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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.2	.4	.0	.0	.0	3.5	.4	.7	.0	.0	.0	.0	1.1
1-2	.0	2.7	.7	.0	.0	.0	3.4	.4	3.7	.4	.0	.0	.0	4.4
3-4	.0	2.3	4.6	.6	.0	.0	7.5	.0	2.7	2.4	.4	.0	.0	5.5
5-6	.0	.0	2.7	.4	.0	.0	3.0	.0	.0	1.6	.4	.0	.0	1.9
7	.3	.0	.6	.5	.0	.0	1.4	.0	.4	.8	.8	.0	.0	1.9
8-9	.0	.0	.7	.3	.0	.0	1.0	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.4	.0	.0	.4	.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
TOT PCT	.3	8.1	9.6	2.1	.0	.0	20.1	.7	7.4	5.1	1.7	.0	.0	14.9

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2	.0	1.1	.0	.0	.0	.0	1.1	
1-2	.0	1.9	.4	.0	.0	.0	2.3	.4	1.4	.4	.0	.0	.0	2.1	
3-4	.0	1.3	.3	.0	.0	.0	1.6	.0	.4	1.2	.0	.0	.0	1.7	
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.1	.1	.0	.0	.2	
7	.0	.0	.0	.4	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4	
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	
TOT PCT	.0	4.5	1.9	.4	.0	.0	6.8	.4	2.9	2.1	.1	.0	.0	5.5	97.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.8	11.0	.3	.0	.0	.0	16.2	
1-2	1.0	17.2	3.8	.0	.0	.0	22.1	
3-4	.7	11.7	17.6	1.0	.0	.0	31.0	
5-6	.3	1.0	14.5	1.7	.0	.0	17.6	
7	.3	1.0	4.8	2.4	.0	.0	8.6	
8-9	.0	.0	1.7	.7	.0	.0	2.4	
10-11	.0	.0	.3	1.7	.0	.0	2.1	
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	
								290
TOT PCT	7.2	42.1	43.1	7.6	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1972

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	2.5	8.7	10.9	5.9	1.2	.5	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	122	3
6-7	.0	1.0	9.7	9.9	5.4	.5	2.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	5
8-9	.0	.5	2.7	4.7	4.7	1.7	2.2	.7	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	7
10-11	.0	1.0	.5	.7	1.2	.2	1.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	6
12-13	.0	.0	.2	.2	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
>13	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	12.6	.7	.7	1.0	.2	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	65	1
TOTAL	61	48	100	91	53	14	24	7	5	1	0	0	0	0	0	0	0	0	0	404	4
PCT	15.1	11.9	24.8	22.5	13.1	3.5	5.9	1.7	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1912-1971
(OVER-ALL) 1857-1971

AREA 0005 BRISBANE
26.8S 153.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	13.2	5.9	.0	.0	.0	.0	.0	19.1	2.0	2.0	.0	.0	.0		.0	77.0
NE	4.6	11.1	.0	.0	.0	.0	.0	15.7	3.7	.0	3.7	.0	.0		.0	76.9
E	18.4	8.3	4.8	.0	.0	.0	.0	31.4	.0	.0	.0	.0	.0		.0	68.6
SE	9.1	14.2	.2	.0	.0	.0	.0	23.5	4.0	.8	.0	.0	.0		.0	72.5
S	8.0	6.7	1.0	.0	.0	.0	.0	15.7	4.3	1.0	.0	.0	.5		.0	79.0
SW	2.2	1.5	.7	.0	.0	.0	.0	4.4	.9	1.5	.0	.0	1.8		.0	91.5
W	2.1	.0	.0	.0	.0	.0	.0	2.1	.0	3.2	.0	.0	.5		.0	94.1
NW	5.4	.5	.0	.0	.0	.0	.0	5.9	.5	.5	.0	.0	.0		.0	93.0
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	.0		.0	100.0
TOT PCT	7.4	6.1	.9	.0	.0	.0	.0	14.3	2.2	1.2	.1	.0	.5		.0	81.8
TOT OBS:	760															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	7.2	4.6	1.3	.0	.0	.0	.0	13.1	3.9	.0	.0	.0	.0		.0	83.0
06&09	5.2	6.1	.9	.0	.0	.0	.0	12.3	2.4	.5	.5	.0	.0		.0	84.4
12&15	6.8	7.3	1.7	.0	.0	.0	.0	15.8	2.3	.6	.0	.0	1.1		.0	80.2
18&21	10.0	5.8	.0	.0	.0	.0	.0	15.8	.8	2.9	.0	.0	.8		.0	80.5
TOT PCT	7.4	6.0	.9	.0	.0	.0	.0	14.3	2.2	1.1	.1	.0	.5		.0	82.0
TOT OBS:	783															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	2.5	1.3	.0	.0	.0		4.8	7.9	.8	3.0	6.1	8.4	5.5	7.3	3.8	1.6
NE	.4	2.0	1.8	1.0	*	.0		5.2	12.6	2.2	6.3	5.3	8.8	2.6	5.8	3.9	6.5
E	.5	3.4	3.8	1.6	.7	.0		9.9	15.3	7.4	11.9	7.3	10.2	13.8	8.8	10.7	9.3
SE	1.1	7.6	5.5	3.0	1.0	.3		18.5	15.3	22.3	19.6	22.6	15.0	20.7	15.4	17.5	16.1
S	1.3	9.2	8.5	2.9	1.4	.5		23.8	15.2	33.0	21.1	28.8	23.7	28.8	18.0	20.6	22.4
SW	1.4	6.8	7.3	2.5	.3	.0		18.4	13.0	15.9	21.1	14.6	12.8	11.4	16.0	22.9	29.5
W	1.0	4.4	3.9	1.2	.1	.0		10.6	11.6	14.3	8.5	8.3	8.0	8.6	14.0	13.5	8.1
NW	.4	4.2	2.1	*	.0	.0		6.7	8.9	4.1	6.3	5.4	10.2	4.8	9.8	5.9	6.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0	.0	2.2	1.6	2.9	3.8	4.9	1.2	.0
TOT OBS	110	478	408	145	42	10	1193		13.2	91	135	189	137	105	164	249	123
TOT PCT	9.2	40.1	34.2	12.2	3.5	.8		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.2	2.5	.2	.0	.0		4.8	7.9	2.1	7.1	6.6	3.1
NE	1.7	1.9	1.5	.2	*		5.2	12.6	4.6	6.7	4.6	4.8
E	1.5	4.7	2.7	.8	.2		9.9	15.3	10.1	8.5	10.8	10.3
SE	3.0	8.5	4.3	2.0	.5		18.5	15.3	20.7	19.4	17.5	17.0
S	4.3	10.9	5.4	2.4	.8		23.8	15.2	25.9	26.7	22.2	21.2
SW	4.4	8.2	4.7	1.1	.0		18.4	13.0	19.0	13.8	14.2	25.1
W	3.7	4.1	2.5	.3	.0		10.6	11.6	10.8	8.2	11.9	11.7
NW	2.8	3.4	.5	*	.0		6.7	8.9	5.4	7.4	7.8	6.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	1.3	2.1	4.5	.8
TOT OBS	306	527	260	82	18	1193		13.2	226	326	269	372
TOT PCT	25.6	44.2	21.8	6.9	1.5		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1912-1971
(OVER-ALL) 1857-1971

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.3	8.0	33.2	38.1	14.2	4.4	.9	14.2	100.0	226
06&09	2.1	8.3	44.2	29.4	11.0	4.6	.3	12.7	100.0	326
12&15	4.5	6.7	42.4	30.9	12.3	2.2	1.1	12.7	100.0	269
18&21	.8	5.9	39.0	38.4	11.8	3.0	1.1	13.4	100.0	372
TOT	25	85	478	408	145	42	10	13.2		1193
PCT	2.1	7.1	40.1	34.2	12.2	3.5	.8		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.8	.4	.5	.4		2.7
NE	.4	.4	1.5	.1		4.8
E	.4	.8	2.5	6.3		6.9
SE	4.0	4.2	5.0	6.0		5.1
S	7.8	8.3	9.5	5.4		4.5
SW	8.3	3.6	5.8	1.1		3.2
W	7.7	.6	1.4	.3		1.9
NW	2.3	.9	.0	.1		1.5
VAR	.0	.0	.0	.0		.0
CALM	1.4	.6	.0	.0		1.4
TOT OBS	121	70	93	70	354	4.1
TOT PCT	34.2	19.8	26.3	19.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.4	.0	.2	.0	.0	.0	.0	2.5	
NE	.0	.0	.0	.6	.4	.3	.0	.0	.0	.0	1.1	
E	.0	.0	.5	2.4	3.2	.6	.3	.0	.0	.3	2.5	
SE	.0	.0	1.2	4.0	3.1	.9	.0	.0	.0	.0	10.0	
S	.3	.0	1.9	3.5	4.4	1.5	.3	.0	.0	.0	19.3	
SW	.0	.0	.4	.6	1.3	1.3	.0	.0	.0	.0	15.2	
W	.0	.0	.0	.3	.3	.6	.0	.0	.0	.0	8.9	
NW	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	3.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
TOT OBS	1	0	14	42	45	20	2	0	0	1	229	354
TOT PCT	.3	.0	4.0	11.9	12.7	5.6	.6	.0	.0	.3	64.7	100.0

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 >500YD	= OR >0
= OR >6500	.3	.3	.3	.3	.3	.3	.3	.3
= OR >5000	.3	.3	.3	.3	.3	.3	.3	.3
= OR >3500	.8	.8	.8	.8	.8	.8	.8	.8
= OR >2000	6.2	6.5	6.5	6.5	6.5	6.5	6.5	6.5
= OR >1000	15.7	18.8	19.1	19.1	19.1	19.1	19.1	19.1
= OR >600	21.6	28.9	29.8	30.6	30.9	30.9	30.9	30.9
= OR >300	22.2	30.1	32.3	33.1	33.7	34.6	34.8	34.8
= OR >150	22.2	30.1	32.3	33.1	33.7	34.6	34.8	34.8
= OR > 0	22.2	30.1	32.3	33.1	34.0	34.8	35.1	35.1
TOTAL	79	107	115	118	121	124	125	125

TOTAL NUMBER OF OBS: 356

PCT FREQ NH <5/8: 64.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.2	16.5	14.2	12.2	10.4	7.1	7.1	6.3	14.2	.0	395

PERIOD: (PRIMARY) 1912-1971
(OVER-ALL) 1857-1971

AREA 0005 BRISBANE
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.5	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.5	.0	.0	.0	.0	.0	.5	
1/2<1	PCP	.1	.0	.0	*	.2	.0	.0	*	.0	.0	.4	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.1	.0	*	.2	.0	.0	*	.0	.0	.5	
1<2	PCP	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.2	.4	.1	.1	.0	.0	.0	.7	
2<5	PCP	.0	.0	.3	.2	.2	.0	.0	.0	.0	.0	.8	
	NO PCP	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.0	.3	.6	.4	.0	.0	.0	.0	.0	1.3	
5<10	PCP	.9	.6	2.3	2.6	1.7	.3	.3	.3	.0	.0	8.9	
	NO PCP	2.3	1.8	3.6	5.2	8.8	7.6	6.5	3.6	.0	.3	39.6	
	TOT %	3.2	2.3	5.9	7.7	10.5	7.9	6.8	3.9	.0	.3	48.6	
10+	PCP	.0	.0	.6	1.0	1.2	.5	.0	.0	.0	.0	3.3	
	NO PCP	1.7	1.1	3.5	7.7	12.9	9.6	5.5	2.1	.0	.9	45.1	
	TOT %	1.7	1.1	4.1	8.7	14.1	10.1	5.5	2.1	.0	.9	48.4	
	TOT OBS												760
	TOT PCT	5.0	3.6	10.4	17.3	26.1	18.1	12.3	6.1	.0	1.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.1	.1	.4	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.1	.1	.4	.0	.0	.0	.0	.0	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	11-21	.1	.0	.0	.0	.0	.0	.0	*	.0		.1	
	22+	.0	.0	.0	*	.2	.0	.0	.0	.0		.2	
	TOT %	.1	.1	.0	*	.2	.0	.0	*	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.1	.1	.1	.2	.0	.0	.0	.0		.5	
	TOT %	.0	.1	.1	.1	.3	.1	.1	.0	.0	.0	.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.1	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.1	.1	.0	.0	.0	.0	.0		.2	
	22+	.0	.1	.6	.4	.3	.0	.0	.0	.0		1.4	
	TOT %	.0	.2	.7	.7	.3	.0	.0	.0	.0	.0	1.9	
5<10	0-3	.8	.4	.5	.8	.6	.9	1.0	.2	.0	.4	5.4	
	4-10	1.3	1.0	1.4	2.7	4.4	2.0	1.8	2.2	.0		16.9	
	11-21	1.1	.9	2.3	1.9	2.6	3.6	2.7	1.2	.0		16.6	
	22+	.0	.3	1.6	2.1	1.8	.6	.5	.0	.0		6.9	
	TOT %	3.1	2.6	5.8	7.4	9.6	7.1	6.1	3.6	.0	.4	45.8	
10+	0-3	.5	.1	.2	.4	.3	.7	.3	.1	.0	.9	3.4	
	4-10	1.2	.6	1.8	3.2	4.8	4.0	2.1	1.4	.0		19.1	
	11-21	.6	.4	1.7	3.0	5.8	4.3	2.4	1.4	.0		19.6	
	22+	.0	.1	.5	2.4	2.8	1.9	.8	*	.0		8.4	
	TOT %	2.3	1.2	4.3	9.0	13.6	10.9	5.5	2.8	.0	.9	50.5	
	TOT OBS												845
	TOT PCT	5.6	4.1	10.9	17.3	24.5	18.1	11.7	6.5	.0	1.3	100.0	

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PERIOD: (PRIMARY) 1912-1971
(OVER-ALL) 1857-1971

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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
00&03	1.1	.0	3.4	11.2	13.5	6.7	.0	.0	.0	.0	36.0	64.0	89
06&09	.0	.0	4.7	12.9	11.8	5.9	.0	.0	.0	.0	35.3	64.7	85
12&15	.0	.0	3.9	10.7	9.7	3.9	.0	.0	.0	1.0	29.1	70.9	103
18&21	.0	.0	2.8	9.4	12.3	4.7	1.9	.0	.0	.0	31.1	68.9	106
TOT	1	0	14	42	45	20	2	0	0	1	125	258	383
PCT	.3	.0	3.7	11.0	11.7	5.2	.5	.0	.0	.3	32.6	67.4	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
00&03	.0	1.9	1.2	1.9	40.1	54.9	162
06&09	.8	.4	.0	2.1	52.3	44.4	241
12&15	1.0	.5	1.5	.5	38.4	58.1	198
18&21	.4	.0	.4	2.6	51.3	45.3	267
TOT	5	5	6	16	404	432	868
PCT	.6	.6	.7	1.8	46.5	49.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.2	6.0	18.1	20.5	61.4	83
06&09	.0	4.9	18.3	18.3	63.4	82
12&15	.0	4.2	15.6	15.6	68.8	96
18&21	.0	3.2	13.7	21.1	65.3	95
TOT	1	16	58	67	231	356
PCT	.3	4.5	16.3	18.8	64.9	100.0

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	.0	.2	.2	.0	.0	2	.4
70/74	.0	.0	.5	1.8	3.6	4.8	4.3	1.8	94	16.8
65/69	.0	.0	1.8	7.7	14.6	16.2	11.2	9.6	343	61.1
60/64	.0	.0	.5	1.2	3.9	4.6	5.2	3.9	109	19.4
55/59	.0	.0	.0	.0	.5	.9	.4	.2	11	2.0
50/54	.0	.0	.0	.0	.2	.2	.0	.0	2	.4
TOTAL	0	0	16	60	129	151	118	87	561	100.0
PCT	.0	.0	2.9	10.7	23.0	26.9	21.0	15.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0
	1.8	1.0	2.3	2.9	4.7	1.3	1.5	.7	.0	.5
	7.3	1.6	7.0	13.5	13.8	10.4	4.4	4.3	.0	.9
	.0	.4	.5	1.7	7.4	4.6	3.9	.8	.0	.0
	.0	.0	.0	.0	.6	.1	1.2	*	.0	.0
	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0
	5.1	3.0	9.8	18.1	28.7	16.7	11.1	6.1	.0	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	77	76	73	68	60	55	54	67.2	224
06&09	76	74	72	67	62	59	57	67.1	334
12&15	75	72	70	66	61	56	54	65.9	271
18&21	77	72	70	65	58	56	53	65.1	370
TOT	77	74	71	66	60	56	53	66.2	1199

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	11.9	29.4	28.4	16.5	13.8	73	109
06&09	.0	19.7	23.8	19.0	24.5	12.9	73	147
12&15	.0	11.3	19.0	37.3	17.6	14.8	75	142
18&21	.0	11.3	21.5	23.7	24.3	19.2	76	177
TOT	0	78	132	154	122	89	74	575

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.3	.0	.0	.2	3	.0	.5
6	.0	.0	.0	.2	.2	.0	.0	2	.0	.3
5	.0	.0	.0	.0	.5	.2	.0	4	.0	.6
4	.0	.0	.0	.0	.3	.3	.2	5	.0	.8
3	.0	.0	.0	.5	.3	.0	.0	5	.0	.8
2	.0	.0	.3	.9	.6	.2	.2	14	.2	2.0
1	.0	.0	.6	1.4	1.8	.2	.0	26	.0	3.9
0	.0	.3	.6	2.0	3.2	.2	.0	41	.0	6.2
-1	.0	.0	.6	2.7	4.4	.0	.0	51	.0	7.7
-2	.0	.3	.8	5.3	5.4	.0	.0	78	.0	11.7
-3	.0	.2	1.1	5.9	3.6	.2	.0	72	.0	10.8
-4	.2	.2	1.5	6.6	2.0	.0	.0	69	.0	10.4
-5	.0	.0	2.3	8.0	1.5	.0	.0	78	.0	11.7
-6	.0	.2	3.2	6.6	1.1	.0	.0	73	.0	11.0
-7/-8	.0	.5	6.0	6.0	.8	.0	.0	88	.0	13.2
-9/-10	.0	1.1	3.2	1.1	.0	.0	.0	35	.0	5.3
-11/-13	.3	1.4	.2	.3	.0	.0	.0	14	.0	2.1
-14/-16	.5	.2	.2	.0	.0	.0	.0	5	.0	.8
-17/-19	.3	.2	.0	.0	.0	.0	.0	3	.0	.5
TOTAL	8	28	135	316	169	7	3	666	1	665
PCT	1.2	4.2	20.3	47.4	25.4	1.1	.5	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.8
1-2	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.5	.8	.0	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.2	1.3	.8	.0	.0	.0	2.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	.0	.0	.0	.0	.7
1-2	.0	.1	.3	.0	.0	.0	.4
3-4	.0	.4	.4	.0	.0	.0	.8
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.1	1.1	1.0	.0	.0	.0	2.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2
1-2	.0	1.1	.0	.0	.0	.0	1.1
3-4	.0	1.6	1.4	.6	.0	.0	3.7
5-6	.0	.2	1.5	.0	.0	.0	1.7
7	.0	.0	1.7	.5	.3	.0	2.5
8-9	.0	.0	.2	1.5	.0	.0	1.7
10-11	.0	.0	.0	.3	.0	.0	.3
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
TOT PCT	.2	3.0	4.8	2.9	.3	.0	11.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.0	.0	.0	.0	.8
1-2	.0	2.2	.7	.0	.0	.0	2.9
3-4	.0	1.3	1.9	.0	.0	.0	3.2
5-6	.0	.7	2.7	.7	.1	.0	4.2
7	.0	.0	1.5	1.4	.0	.0	2.9
8-9	.0	.0	.4	.7	.6	.0	1.7
10-11	.0	.3	.0	1.2	1.2	.0	2.8
12	.0	.3	.0	1.0	.3	.0	1.6
13-16	.0	.0	.0	1.2	.3	.0	1.5
17-19	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.1	.1
33-40	.0	.0	.0	.0	.1	.1	.2
41-48	.0	.0	.0	.0	.0	.1	.1
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
TOT PCT	.1	5.5	7.2	6.4	2.6	.2	22.0

PERIOD: (OVER-ALL) 1963-1971

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TABLE 18 (CONT)

AREA 0005 BRISBANE
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2	.3	.7	.0	.0	.0	.0	1.0
1-2	.0	5.5	2.6	.0	.0	.0	8.1	.3	2.8	1.6	.0	.0	.0	4.8
3-4	.0	2.5	4.2	.5	.0	.0	7.2	.0	.5	3.3	.1	.0	.0	3.9
5-6	.0	.3	4.1	1.7	.2	.0	6.4	.0	.3	1.6	.1	.0	.0	2.0
7	.0	.0	1.1	1.7	.6	.0	3.4	.0	.0	.2	3.6	.0	.0	3.7
8-9	.0	.0	.2	.6	.3	.0	1.2	.0	.0	.1	.4	.0	.0	.5
10-11	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.3	.5	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.7	.3	.0	1.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.2	.0	.0	.2	.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	.3	.5	.9	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.2	.2	.5	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.5	.5	.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
TOT PCT	.0	9.4	12.6	7.2	2.0	1.3	32.6	.6	4.3	6.9	4.4	.0	.0	16.2

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	1.4	.0	.0	.0	.0	1.7	.0	.8	.0	.0	.0	.0	.8	
1-2	.3	2.0	.5	.0	.0	.0	2.9	.0	.2	.4	.0	.0	.0	.5	
3-4	.0	.3	1.2	.6	.0	.0	2.1	.0	.3	1.5	.0	.0	.0	1.8	
5-6	.0	.0	.5	.3	.0	.0	.9	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	.2	.3	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.2	.0	.0	.2	.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	
TOT PCT	.6	3.7	2.5	1.5	.0	.0	8.3	.0	1.2	1.9	.0	.0	.0	3.2	98.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.1	5.9	.0	.0	.0	.0	9.0	
1-2	.6	14.0	6.2	.0	.0	.0	20.9	
3-4	.0	7.5	14.6	1.9	.0	.0	24.0	
5-6	.0	1.6	10.9	2.8	.3	.0	15.6	
7	.0	.0	4.7	7.5	.9	.0	13.1	
8-9	.0	.0	.9	3.4	.9	.0	5.3	
10-11	.0	.3	.0	2.8	1.2	.0	4.4	
12	.0	.3	.3	1.6	.3	.0	2.5	
13-16	.0	.0	.0	1.9	.6	.0	2.5	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.3	.0	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.3	.6	.9	
33-40	.0	.0	.0	.0	.3	.3	.6	
41-48	.0	.0	.0	.0	.0	.6	.6	
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	
								321
TOT PCT	3.7	29.6	37.7	22.4	5.0	1.6	100.0	

PERIOD: (OVER-ALL) 1949-1971

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	1.4	4.2	11.5	5.3	1.4	1.4	.6	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	4
6-7	.0	.3	5.1	6.5	4.5	5.3	1.1	.3	.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	86	6
8-9	.0	.0	1.7	1.7	5.3	5.3	7.6	3.7	2.2	.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	101	9
10-11	.0	.0	.6	1.4	1.1	1.7	1.7	1.1	1.7	.0	.0	.6	.8	.6	.6	.0	.0	.0	.0	42	14
12-13	.0	.0	.6	.6	1.4	.3	.0	.3	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	13	8
>13	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	3	19
INDET	1.4	.8	.0	.3	.8	.3	.8	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	5
TOTAL	10	19	69	57	52	51	42	20	17	5	1	4	5	2	2	0	0	0	0	356	7
PCT	2.8	5.3	19.4	16.0	14.6	14.3	11.8	5.6	4.8	1.4	.3	1.1	1.4	.6	.6	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1863-1972

AREA 0005 BRISBANE
26.7S 153.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	6.6	6.6	3.3	.0	.0	.0	.0	16.5	3.3	.0	.9	.0	.0	.0		79.2
NE	9.1	9.8	3.5	.0	.0	.0	.0	22.4	11.9	.0	4.2	.0	.0	.0		61.5
E	16.8	3.9	6.4	.0	.0	.0	.0	27.1	5.4	2.9	1.4	.0	.0	.0		64.6
SE	6.8	8.8	1.8	.0	.0	.0	.0	17.4	2.8	4.2	.0	.0	.0	.0		78.8
S	1.0	7.4	.8	.0	.0	.0	.0	9.2	1.1	1.1	.0	.0	.7	.0		87.9
SW	3.8	2.3	.0	.0	.0	.0	.0	6.0	.0	.4	.9	.0	1.7	.0		91.0
W	1.1	.0	.0	.0	.0	.0	.0	1.1	.0	1.1	.8	.0	.8	.0		96.3
NW	3.0	.0	2.4	.0	.0	.0	.0	5.4	.0	.6	.0	.0	.0	.0		94.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	4.8	4.8	.0	.0	.0	.0	.0	9.5	.0	7.1	4.8	.0	2.4	.0		76.2
TOT PCT	4.9	4.7	1.6	.0	.0	.0	.0	11.3	1.9	1.8	.9	.0	.6	.0		84.2
TOT OBS:	789															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	3.0	4.9	1.2	.0	.0	.0	.0	9.1	1.2	.0	2.4	.0	.0	.0		87.2
06609	3.1	6.7	1.3	.0	.0	.0	.0	11.2	.4	.4	.0	.0	.4	.0		87.4
12615	5.9	4.3	1.6	.0	.0	.0	.0	11.9	4.3	2.2	.0	.0	.0	.0		82.7
18621	6.8	2.8	2.8	.0	.0	.0	.0	12.4	1.6	3.6	1.6	.0	1.6	.0		80.3
TOT PCT	4.9	4.6	1.8	.0	.0	.0	.0	11.3	1.8	1.7	1.0	.0	.6	.0		84.2
TOT OBS:	821															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	4.1	1.1	.3	*	.0		6.5	8.5	6.3	5.0	6.3	8.2	7.3	8.0	7.2	3.7
NE	.9	2.7	1.5	.3	.1	.0		5.4	9.7	1.4	2.3	4.1	10.9	5.9	6.9	6.6	3.3
E	.5	3.8	3.1	1.2	.8	.2		9.5	15.7	12.0	6.4	11.1	7.8	16.0	8.9	10.4	6.7
SE	1.6	6.5	4.9	1.8	.3	.0		15.1	11.9	14.1	11.4	18.2	19.4	21.1	14.4	12.6	12.7
S	.8	7.5	8.3	2.1	.2	.1		19.1	13.1	28.5	22.5	24.0	15.0	15.4	12.9	18.0	19.0
SW	1.6	7.2	8.0	.8	.2	.1		17.9	11.6	18.2	20.8	15.0	10.2	12.6	19.8	18.3	26.3
W	1.0	5.7	4.2	.4	.1	.0		11.4	10.4	9.8	13.1	10.2	9.9	16.0	12.1	11.6	10.0
NW	1.1	6.2	2.1	.4	.1	.0		9.9	9.1	8.7	13.1	7.2	7.8	3.4	11.5	9.1	15.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.1							5.1	.0	1.1	5.4	3.8	10.9	2.2	5.5	6.2	2.7
TOT OBS	167	538	410	91	22	5	1233		11.0	92	149	183	147	89	182	241	150
TOT PCT	13.5	43.6	33.3	7.4	1.8	.4		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.2	2.5	.8	*	.0		6.5	8.5	5.5	7.1	7.7	5.8
NE	2.3	2.3	.6	.2	.0		5.4	9.7	2.0	7.1	6.5	5.4
E	2.1	4.3	1.4	1.3	.4		9.5	15.7	8.5	9.6	11.3	9.0
SE	4.5	7.0	2.5	.9	.1		15.1	11.9	12.4	18.7	16.6	12.6
S	4.0	9.5	4.7	.7	.2		19.1	13.1	24.8	20.0	13.7	18.4
SW	5.0	8.7	3.8	.4	.1		17.9	11.6	19.8	12.9	17.4	21.4
W	3.6	6.1	1.6	.2	.0		11.4	10.4	11.8	10.1	13.4	11.0
NW	3.9	4.9	.9	.2	.0		9.9	9.1	11.4	7.5	8.9	11.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.1						5.1	.0	3.7	7.0	4.4	4.9
TOT OBS	417	558	200	48	10	1233		11.0	241	330	271	391
TOT PCT	33.8	45.3	16.2	3.9	.8		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1863-1972

AREA 0005 BRISBANE
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.7	7.9	39.8	37.8	7.5	2.9	.4	11.9	100.0	241
06&09	7.0	9.1	40.9	33.9	7.6	.9	.6	10.7	100.0	330
12&15	4.4	8.1	47.6	29.5	7.7	2.2	.4	11.0	100.0	271
18&21	4.9	8.4	45.5	32.5	6.9	1.5	.3	10.8	100.0	391
TOT	63	104	538	410	91	22	5	11.0		1233
PCT	5.1	8.4	43.6	33.3	7.4	1.8	.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.8	1.7	1.6	2.1		4.7
NE	.5	.5	2.0	1.2		5.6
E	1.2	.7	3.8	5.5		6.5
SE	6.7	2.3	5.5	3.1		4.2
S	11.0	7.2	5.0	1.4		3.0
SW	11.3	3.0	.8	.7		1.6
W	7.1	1.5	1.6	.3		2.1
NW	1.7	1.6	1.8	.9		4.1
VAR	.0	.0	.0	.0		.0
CALM	2.0	.7	.3	.0		2.8
TOT OBS	129	57	67	45	298	3.6
TOT PCT	43.3	19.1	22.5	15.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.7	.0	.3	.6	.6	.0	.9	.0	.0	.0	4.1	
NE	.0	.3	.4	.8	.0	.3	.0	.0	.0	.0	2.3	
E	.0	.0	.3	3.9	3.1	.0	.0	.0	.0	.0	3.8	
SE	.0	.0	.0	1.6	3.4	1.2	.0	.0	.0	.1	11.3	
S	.0	.0	.0	1.5	2.2	1.4	.0	.0	.0	.3	19.3	
SW	.0	.0	.0	.3	.7	.4	.0	.0	.0	.0	14.4	
W	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	9.1	
NW	.0	.0	.0	.1	.5	.0	.4	.0	.3	.3	4.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	2.7	
TOT OBS	2	1	3	26	35	10	4	0	1	3	213	298
TOT PCT	.7	.3	1.0	8.7	11.7	3.4	1.3	.0	.3	1.0	71.5	100.0

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 >500YD	= OR >0
= OR >6500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >5000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >3500	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
= OR >2000	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
= OR >1000	15.9	16.2	16.6	17.5	17.5	17.5	17.5	17.5
= OR >600	20.2	21.2	22.5	24.8	25.8	26.2	26.2	26.2
= OR >300	20.2	21.9	23.5	25.8	26.8	27.2	27.2	27.2
= OR >150	20.2	21.9	23.5	26.2	27.2	27.5	27.5	27.5
= OR > 0	20.2	21.9	23.8	26.8	27.8	28.1	28.1	28.1
TOTAL	61	66	72	81	84	85	85	85

TOTAL NUMBER OF OBS: 302

PCT FREQ NH <5/8: 71.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.3	17.6	15.7	12.3	7.7	7.1	6.8	7.4	8.0	.0	324

JULY

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1863-1972

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	TOT %	.0	.0	.1	.0	.0	.1	.0	.0	.0	.3	.5	
1/2<1	PCP	.0	.1	.4	.0	.0	.0	.0	.0	.0	.3	.8	
	NO PCP	.1	.2	.1	.0	.0	.1	.0	.0	.0	.0	.5	
	TOT %	.1	.3	.6	.0	.0	.1	.0	.0	.0	.3	1.3	
1<2	PCP	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.1	.1	.5	.0	.0	.3	.0	.0	.0	.1	1.1	
	TOT %	.1	.1	.9	.0	.0	.3	.0	.0	.0	.1	1.5	
2<5	PCP	.1	*	.1	.3	.0	.0	.0	.1	.0	.0	.6	
	NO PCP	.0	.1	.1	*	.2	.0	.1	.0	.0	.0	.6	
	TOT %	.1	.2	.2	.3	.2	.0	.1	.1	.0	.0	1.3	
5<10	PCP	.8	.9	.9	2.2	1.3	.6	.1	.4	.0	.3	7.5	
	NO PCP	3.2	1.4	1.9	5.5	7.3	7.9	7.5	7.1	.0	2.8	44.6	
	TOT %	3.9	2.3	2.8	7.7	8.6	8.6	7.6	7.5	.0	3.0	52.1	
10+	PCP	.2	.0	.5	.3	.5	.3	.0	*	.0	.0	1.8	
	NO PCP	2.2	1.7	3.8	7.6	10.1	7.5	4.2	2.8	.0	1.6	41.6	
	TOT %	2.5	1.7	4.2	7.9	10.6	7.8	4.2	2.9	.0	1.6	43.3	
	TOT OBS												789
	TOT PCT	6.7	4.5	8.9	15.9	19.4	16.8	12.0	10.5	.0	5.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	.3	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.0	.0	.1	.0	.1	.1	.0	.0	.0	.2	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	.3	
	4-10	.1	.2	.1	.0	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.1	.4	.0	.0	.0	.0	.0	.0		.4	
	TOT %	.1	.2	.5	.0	.0	.1	.0	.0	.0	.2	1.1	
1<2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.0	.0	.0	.2	.0	.0	.0		.2	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.1	.0	.8	.0	.0	.0	.0	.0	.0		.9	
	TOT %	.1	.1	.8	.2	.0	.2	.0	.0	.0	.1	1.6	
2<5	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	4-10	.1	.0	.0	.1	.4	.1	.3	.1	.0		1.0	
	11-21	.0	.2	.1	.1	.2	.1	.0	.1	.0		.8	
	22+	.0	.0	.3	.3	.0	.0	.0	.0	.0		.6	
	TOT %	.1	.2	.4	.4	.6	.3	.3	.2	.0	.0	2.4	
5<10	0-3	.9	.4	.3	.9	.4	.4	.7	.7	.0	3.1	8.0	
	4-10	1.9	.7	.7	2.3	2.9	3.7	3.0	4.3	.0		19.4	
	11-21	.6	1.0	.9	2.3	3.1	2.9	2.8	1.6	.0		15.2	
	22+	.0	.1	1.1	1.5	1.3	.5	.2	.0	.0		4.5	
	TOT %	3.4	2.1	3.0	7.0	7.6	7.6	6.7	6.6	.0	3.1	47.1	
10+	0-3	.2	.2	.1	.6	.4	.8	.3	.7	.0	2.0	5.3	
	4-10	1.9	1.4	2.4	4.4	4.1	2.9	2.7	2.1	.0		21.9	
	11-21	.6	*	1.6	3.0	5.5	4.2	1.6	.7	.0		17.1	
	22+	.3	.0	.1	.8	.8	.5	.2	.3	.0		3.0	
	TOT %	2.9	1.7	4.2	8.8	10.8	8.4	4.7	3.8	.0	2.0	47.7	
	TOT OBS												903
	TOT PCT	6.6	4.4	8.9	16.4	19.1	16.7	11.7	10.5	.0	5.6	100.0	

PERIOD: (PRIMARY) 1912-1972
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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
00&03	2.2	.0	1.1	4.5	13.5	4.5	2.2	.0	1.1	1.1	30.3	69.7	89
06&09	.0	.0	1.4	10.8	10.8	4.1	1.4	.0	.0	.0	28.4	71.6	74
12&15	.0	.0	1.2	8.4	7.2	2.4	1.2	.0	.0	.0	20.5	79.5	83
18&21	.0	1.5	.0	10.3	13.2	1.5	.0	.0	.0	2.9	29.4	70.6	68
TOT	2	1	3	26	35	10	4	0	1	3	85	229	314
PCT	.6	.3	1.0	8.3	11.1	3.2	1.3	.0	.3	1.0	27.1	72.9	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
00&03	.6	2.3	1.8	2.9	39.2	53.2	171
06&09	.4	1.2	1.5	1.2	53.7	42.1	259
12&15	.0	.0	.9	2.8	41.3	54.9	213
18&21	1.0	1.4	1.7	2.7	53.4	39.7	292
TOT	5	11	14	22	450	433	935
PCT	.5	1.2	1.5	2.4	48.1	46.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	2.3	4.7	11.6	22.1	66.3	86
06&09	.0	2.8	14.1	15.5	70.4	71
12&15	.0	1.3	12.7	8.9	78.5	79
18&21	.0	4.5	13.6	18.2	68.2	66
TOT	2	10	39	49	214	302
PCT	.7	3.3	12.9	16.2	70.9	100.0

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	.0	.0	.0	.2	.0	1	.2
70/74	.0	.0	.2	1.0	1.6	2.0	.7	1.8	44	7.2
65/69	.0	.3	1.6	8.2	12.6	11.7	12.2	7.0	329	53.7
60/64	.0	.7	2.1	3.8	6.7	5.9	5.2	3.8	172	28.1
55/59	.0	.0	.3	1.5	1.5	1.3	2.0	.7	44	7.2
50/54	.0	.0	.0	.2	.3	.0	1.5	.2	13	2.1
45/49	.0	.0	.2	.0	.0	.2	.5	.8	10	1.6
TOTAL	0	6	27	89	139	129	136	87	613	100.0
PCT	.0	1.0	4.4	14.5	22.7	21.0	22.2	14.2		

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	.0	.2
1.0	.9	.9	.8	1.1	.7	.7	.6	.0	.5
4.3	3.5	6.8	11.0	9.3	5.8	4.1	4.9	.0	3.9
1.1	.4	.5	3.2	7.5	7.9	4.2	2.4	.0	.8
.0	.0	.0	.2	1.1	3.1	1.9	.2	.0	.7
.0	.0	.0	.0	.0	.2	.8	.4	.0	.7
.0	.0	.0	.0	.3	.8	.0	.0	.0	.5
6.4	4.9	8.3	15.2	19.5	18.6	11.6	8.4	.0	7.2

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	80	75	71	66	59	57	56	65.7	240
06&09	73	72	70	65	59	56	55	65.2	333
12&15	72	70	69	65	57	54	52	64.0	280
18&21	72	71	68	64	54	47	45	63.2	395
TOT	80	72	70	65	57	50	45	64.4	1248

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	17.2	28.7	26.2	20.5	7.4	71	122
06&09	.0	23.0	24.2	19.4	23.0	10.3	71	165
12&15	.0	22.5	21.2	19.2	22.5	14.6	72	151
18&21	.0	16.0	18.0	21.5	23.0	21.5	76	200
TOT	0	125	143	136	143	91	73	638

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1863-1972

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) 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 FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.3	.0	2	.0	.3
7/8	.0	.0	.0	.0	.3	.1	.1	4	.0	.6
6	.0	.0	.0	.0	.4	.1	.0	4	.0	.6
5	.0	.0	.0	.1	.3	.0	.4	6	.0	.8
4	.0	.0	.0	.0	.4	.6	.0	7	.0	1.0
3	.0	.0	.0	.1	.7	.4	.0	9	.0	1.3
2	.0	.0	.0	.0	.7	1.1	.1	14	.0	2.0
1	.0	.0	.1	.3	1.4	2.5	.0	31	.0	4.4
0	.0	.0	.4	.6	3.5	1.6	.0	43	.4	5.7
-1	.0	.0	.4	1.0	3.5	1.8	.0	48	.0	6.8
-2	.0	.0	.0	1.8	9.8	1.4	.0	92	.3	12.7
-3	.0	.3	.3	2.8	8.9	1.3	.1	97	.1	13.6
-4	.0	.4	.4	3.7	9.3	.4	.0	101	.1	14.2
-5	.0	.1	.4	2.7	5.8	.3	.0	66	.0	9.3
-6	.0	.1	.8	3.7	1.8	.1	.0	47	.0	6.7
-7/-8	.3	.0	1.6	5.5	1.1	.1	.0	61	.1	8.5
-9/-10	.1	.6	3.4	2.5	.3	.0	.0	49	.0	6.9
-11/-13	.1	1.0	1.3	.3	.0	.0	.0	19	.0	2.7
-14/-16	.0	.0	.3	.3	.0	.0	.0	4	.0	.6
-17/-19	.0	.1	.1	.0	.0	.0	.0	2	.0	.3
TOTAL	4	19	68	180	342	87	6	706	8	698
PCT	.6	2.7	9.6	25.5	48.4	12.3	.8	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.3	.0	.0	.0	.0	2.3
1-2	.0	1.9	.3	.0	.0	.0	2.2
3-4	.0	.7	.0	.0	.0	.0	.7
5-6	.0	.0	.6	.4	.0	.0	1.0
7	.0	.0	.4	.4	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	4.9	1.3	.8	.0	.0	7.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.1	.0	.0	.0	.0	.5
1-2	.0	1.4	.0	.0	.0	.0	1.4
3-4	.0	1.2	.6	.0	.0	.0	1.8
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	2.7	.7	.0	.0	.0	3.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.4	1.5	.8	.0	.0	.0	2.7
3-4	.0	2.0	1.5	.0	.0	.0	3.5
5-6	.0	.0	1.4	.0	.0	.0	1.4
7	.0	.0	.7	.0	.4	.0	1.1
8-9	.0	.0	.4	.4	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	3.9	4.8	.4	.4	.0	9.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.1	5.7	1.4	.0	.0	.0	7.2
3-4	.0	.9	3.4	.0	.0	.0	4.3
5-6	.0	.1	2.2	.1	.0	.0	2.4
7	.0	.0	1.3	.4	.0	.0	1.7
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.8	.0	.8
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
TOT PCT	.1	8.0	8.4	.5	.8	.0	17.9

PERIOD: (OVER-ALL) 1963-1972

TABLE 18 (CONT)

AREA 0005 BRISBANE
26.7S 153.4E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.6	.0	.0	.0	.0	1.3
1-2	.3	5.6	2.5	.0	.0	.0	8.4
3-4	.4	.6	6.7	.4	.0	.0	8.1
5-6	.0	.3	4.3	.6	.0	.0	5.2
7	.0	.0	.3	.4	.0	.0	.7
8-9	.0	.0	.3	.4	.0	.0	.7
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.4	.4	.0	.0	.8
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
TOT PCT	1.4	7.1	14.6	2.5	.0	.0	25.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.4	.4	.0	.0	.0	2.3
1-2	.8	2.1	1.0	.0	.0	.0	3.9
3-4	.0	.6	4.2	.0	.0	.0	4.8
5-6	.0	.4	3.4	.9	.0	.0	4.7
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.1	.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	.4	.0	.4
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
TOT PCT	1.3	4.5	9.5	1.0	.4	.0	16.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.6	.0	.0	.0	.0	1.0
1-2	.0	3.7	1.0	.0	.0	.0	4.7
3-4	.0	1.1	2.3	.0	.0	.0	3.4
5-6	.0	.3	1.5	.4	.0	.0	2.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	5.7	4.8	.4	.0	.0	11.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.5	.0	.0	.0	.0	.5	
1-2	.4	1.7	.6	.0	.0	.0	2.7	
3-4	.0	.1	1.3	.0	.0	.0	1.4	
5-6	.0	.1	.5	.0	.0	.0	.6	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	.4	2.4	2.4	.0	.0	.0	5.2	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.1	7.5	.4	.0	.0	.0	13.0	
1-2	2.0	23.3	7.5	.0	.0	.0	32.8	
3-4	.4	7.1	19.8	.4	.0	.0	27.7	
5-6	.0	1.2	13.8	2.4	.0	.0	17.4	
7	.4	.0	2.8	1.2	.4	.0	4.7	
8-9	.0	.0	1.2	.8	.0	.0	2.0	
10-11	.0	.0	.0	.4	.8	.0	1.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.4	.4	.0	.0	.8	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.4	.0	.4	
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	
								253
TOT PCT	7.9	39.1	45.8	5.5	1.6	.0	100.0	

PERIOD: (OVER-ALL) 1949-1972

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	8.4	12.0	6.1	2.3	.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	3
6-7	.3	2.6	6.5	12.0	6.5	2.6	1.0	.0	1.3	.6	.0	1.0	.0	.0	.0	.0	.0	.0	.0	106	6
8-9	.0	.6	1.6	4.2	4.9	3.6	1.3	1.0	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	7
10-11	.0	.0	.0	2.6	1.0	.6	.6	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	18	8
12-13	.0	.0	.0	.6	.0	.0	.3	.0	.0	.0	1.0	.3	.0	.0	.0	.0	.0	.0	.0	7	15
>13	.0	.0	.0	.0	.3	.0	.0	.0	.0	.6	.3	.0	1.0	.3	.0	.0	.0	.0	.0	8	24
INDET	1.3	.3	.6	1.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	3
TOTAL	12	37	64	83	48	23	11	4	9	5	5	4	3	1	0	0	0	0	0	309	6
PCT	3.9	12.0	20.7	26.9	15.5	7.4	3.6	1.3	2.9	1.6	1.6	1.3	1.0	.3	.0	.0	.0	.0	.0	100.0	

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PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1860-1972

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.4	1.0	3.4	.0	.0	.0	.0	8.8	1.0	.0	1.0	.0	.5	.0		88.7
NE	7.4	6.9	1.0	.0	.0	.0	.0	15.3	2.0	.0	3.0	.0	2.0	.0		77.8
E	3.2	7.8	1.2	.0	.0	.0	1.2	13.3	.0	2.3	2.9	.0	.0	.0		82.7
SE	5.6	17.4	.0	.0	.0	.0	.0	22.9	2.8	.0	.0	.0	.0	.0		74.3
S	3.9	7.2	.0	.0	.0	.0	.0	11.0	1.8	.0	.4	.0	.0	.0		86.9
SW	1.3	3.4	.0	.0	.0	.0	.0	4.7	1.3	1.8	.4	.0	.9	.0		90.8
W	5.5	1.5	.0	.0	.0	.0	.0	7.0	.0	.0	.0	.0	1.5	.0		91.6
NW	1.9	1.3	.3	.0	.0	.0	.0	3.5	.0	.0	.0	.0	3.2	.0		93.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	4.5	.0	.0	.0	.0	.0	4.5	.0	4.5	.0	.0	4.5	.0		86.4
TOT PCT	3.8	6.1	.7	.0	.0	.0	.1	10.7	1.2	.7	.8	.0	.9	.0		85.9
TOT OBS:	765															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.7	5.4	1.4	.0	.0	.0	.0	9.5	2.7	.0	.7	.0	2.0	.0		85.1
06&09	3.7	4.2	.5	.0	.0	.0	.5	8.9	.9	.0	.0	.0	.5	.0		89.7
12&15	5.0	7.2	.6	.0	.0	.0	.0	12.7	.0	1.1	.6	.0	.6	.0		85.1
18&21	3.6	6.9	.4	.0	.0	.0	.0	10.9	1.2	1.2	1.6	.0	1.2	.0		84.3
TOT PCT	3.8	5.9	.6	.0	.0	.0	.1	10.5	1.1	.6	.8	.0	1.0	.0		86.1
TOT OBS:	791															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	7.3	4.9	1.0	.1	.0		14.3	10.9	8.0	8.2	14.4	21.1	17.4	16.2	14.8	10.7
NE	1.1	4.7	1.6	*	.0	.0		7.4	8.1	9.6	4.3	10.4	11.8	8.2	9.2	4.4	2.2
E	1.1	5.4	3.0	.2	.0	.0		9.9	9.4	10.6	10.0	11.7	8.8	19.5	9.5	8.3	4.5
SE	.6	6.0	5.9	.5	.2	.0		13.2	11.5	11.2	10.0	16.7	16.0	11.6	14.2	12.2	10.7
S	.6	6.9	8.4	1.9	.2	.0		18.0	12.9	19.2	22.9	21.4	18.3	14.3	15.0	14.9	18.8
SW	.6	5.2	6.7	1.3	.0	.0		13.8	12.8	23.7	17.9	6.9	6.2	7.3	10.7	17.0	25.9
W	1.0	3.9	2.8	.6	.0	.0		8.3	10.2	6.7	7.5	5.4	6.9	5.5	11.0	10.7	9.4
NW	.6	6.5	4.2	.6	.0	.0		11.9	10.2	9.6	15.0	11.4	8.3	7.6	11.8	13.0	16.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3							3.3	.0	1.3	4.3	1.7	2.6	8.5	2.3	4.7	1.8
TOT OBS	116	530	432	70	5	0	1153		10.8	78	140	180	153	82	173	235	112
TOT PCT	10.1	46.0	37.5	6.1	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.6	7.9	2.8	.1	.0		14.3	10.9	8.1	17.5	16.6	13.5
NE	3.1	3.9	.4	.0	.0		7.4	8.1	6.2	11.0	8.9	3.7
E	3.4	5.2	1.3	.0	.0		9.9	9.4	10.2	10.4	12.7	7.1
SE	2.5	8.2	2.2	.3	.0		13.2	11.5	10.4	16.4	13.3	11.7
S	3.8	9.2	4.0	.9	.1		18.0	12.9	21.6	20.0	14.8	16.1
SW	2.0	7.3	4.4	.1	.0		13.8	12.8	20.0	6.6	9.6	19.9
W	3.0	3.7	1.3	.2	.0		8.3	10.2	7.2	6.1	9.2	10.3
NW	4.1	6.0	1.6	.2	.0		11.9	10.2	13.1	10.0	10.5	14.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.3						3.3	.0	3.2	2.1	4.3	3.7
TOT OBS	331	593	208	20	1	1153		10.8	218	333	255	347
TOT PCT	28.7	51.4	18.0	1.7	.1		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.2	5.5	44.0	41.3	6.0	.0	.0	11.1	100.0	218
06&09	2.1	9.0	49.8	33.6	4.8	.6	.0	10.3	100.0	333
12&15	4.3	6.7	45.9	34.9	8.2	.0	.0	10.7	100.0	255
18&21	3.7	5.5	43.5	40.6	5.8	.9	.0	11.1	100.0	347
TOT	38	78	530	432	70	5	0	10.8		1153
PCT	3.3	6.8	46.0	37.5	6.1	.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.1	1.1	3.4	2.8		3.7
NE	2.5	.7	3.1	3.1		5.3
E	4.2	3.3	4.9	2.5		4.6
SE	4.8	4.1	3.1	.9		3.6
S	6.9	4.9	3.2	1.5		3.1
SW	7.9	2.0	2.4	.5		2.3
W	6.8	.9	.4	.0		.9
NW	3.8	.4	1.3	1.3		3.6
VAR	.0	.0	.0	.0		.0
CALM	3.6	.0	.4	.4		1.5
TOT OBS	132	48	61	36	277	3.4
TOT PCT	47.7	17.3	22.0	13.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	2.0	2.5	.4	.4	.0	.0	.3	8.9	
NE	.0	.0	.7	1.6	2.1	.8	.4	.0	.0	.1	3.7	
E	.0	.0	.0	2.3	1.3	1.3	.4	.0	.0	.0	9.8	
SE	.0	.0	.0	.5	.9	.1	1.1	.0	.0	.0	10.3	
S	.0	.0	.0	.0	2.0	.8	.3	.0	.0	.0	13.4	
SW	.0	.0	.0	.7	1.2	.6	.1	.0	.0	.0	10.3	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	
NW	.0	.0	.4	.5	.5	.4	.0	.0	.0	.0	4.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	4.0	
TOT OBS	0	0	3	21	29	13	7	0	0	1	203	277
TOT PCT	.0	.0	1.1	7.6	10.5	4.7	2.5	.0	.0	.4	73.3	100.0

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 >50YD	= OR >0
= OR >4500	.4	.4	.4	.4	.4	.4	.4	.4
= OR >5000	.4	.4	.4	.4	.4	.4	.4	.4
= OR >3500	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
= OR >2000	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
= OR >1000	15.5	17.3	18.0	18.0	18.0	18.0	18.0	18.0
= OR >600	21.5	24.3	25.4	25.4	25.4	25.4	25.4	25.4
= OR >300	21.8	25.4	26.4	26.4	26.4	26.4	26.4	26.4
= OR >150	21.8	25.4	26.4	26.4	26.4	26.4	26.4	26.4
= OR > 0	21.8	25.4	26.4	26.4	26.4	26.4	26.4	26.4
TOTAL	62	72	75	75	75	75	75	75

TOTAL NUMBER OF OBS: 284 PCT FREQ NH <5/8: 73.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
20.8	18.9	14.0	10.7	9.1	5.5	5.5	9.4	5.9	.0	307

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.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	
	NO PCP	.1	.2	.2	.0	.1	.1	.1	.0	.0	.0	.8	
	TOT %	.1	.2	.2	.0	.1	.1	.1	.0	.0	.0	.8	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.1	.0	.0	.0	.0	.1	.3	.0	.0	.7	
	TOT %	.1	.1	.0	.0	.0	.0	.1	.3	.0	.0	.7	
2<5	PCP	.1	*	.0	.0	.1	*	.0	.0	.0	.0	.3	
	NO PCP	.1	.1	.0	.0	.0	.0	.0	*	.0	.0	.3	
	TOT %	.2	.2	.0	.0	.1	*	.0	*	.0	.0	.5	
5<10	PCP	.8	.5	1.3	2.9	1.7	.4	.6	.2	.0	.1	8.5	
	NO PCP	5.9	2.3	4.2	5.3	9.2	6.5	4.2	5.8	.0	.7	44.1	
	TOT %	6.7	2.8	5.5	8.2	10.9	6.9	4.8	5.9	.0	.8	52.5	
10+	PCP	.2	.5	.2	.3	.3	.3	.0	.2	.0	.0	2.0	
	NO PCP	5.4	2.8	5.3	5.6	7.3	7.3	3.9	3.7	.0	2.1	43.4	
	TOT %	5.6	3.4	5.5	5.9	7.6	7.5	3.9	3.9	.0	2.1	45.4	
	TOT OBS												765
	TOT PCT	12.7	6.6	11.9	14.1	18.7	14.6	8.9	10.2	.0	2.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.1	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.2	.2	.0	.1	.1	.1	.0	.0		.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.2	.2	.0	.1	.1	.1	.0	.0	.0	.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.0	.0	.0	.0	.0	.2	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.1	.1	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.0	.0	.0	.0	.1	.3	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	*	.0	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.1	.0	.0	.0	.1	*	.0	*	.0		.2	
	TOT %	.2	.1	.0	.0	.1	*	.0	*	.0	.0	.5	
5<10	0-3	.6	.7	.5	.4	.2	.2	.5	.2	.0	.8	4.2	
	4-10	3.1	1.8	2.3	3.0	2.9	2.1	1.7	3.0	.0		19.7	
	11-21	1.9	.4	2.2	3.9	5.9	3.1	1.9	2.0	.0		21.3	
	22+	.6	*	.3	.5	1.5	1.0	.3	.1	.0		4.3	
	TOT %	6.2	2.8	5.3	7.7	10.5	6.3	4.4	5.4	.0	.8	49.5	
10+	0-3	.7	.2	.6	.4	.2	.3	.8	.3	.0	2.4	5.9	
	4-10	3.5	2.2	3.4	3.0	3.8	3.4	2.0	2.1	.0		23.3	
	11-21	1.9	1.2	1.9	2.7	2.7	3.3	1.2	1.9	.0		16.9	
	22+	.3	*	.0	.1	.9	.6	.3	.1	.0		2.4	
	TOT %	6.5	3.6	5.9	6.2	7.6	7.6	4.3	4.5	.0	2.4	48.4	
	TOT OBS												836
	TOT PCT	13.1	6.9	11.5	13.9	18.3	14.0	8.9	10.2	.0	3.2	100.0	

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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
00&03	.0	.0	1.3	9.3	16.0	4.0	1.3	.0	.0	.0	32.0	68.0	75
06&09	.0	.0	1.6	3.3	6.6	4.9	4.9	.0	.0	.0	21.3	78.7	61
12&15	.0	.0	1.2	6.0	9.5	2.4	2.4	.0	.0	.0	21.4	78.6	84
18&21	.0	.0	.0	8.6	7.4	6.2	1.2	.0	.0	1.2	24.7	75.3	81
TOT	0	0	3	21	30	13	7	0	0	1	75	226	301
PCT	.0	.0	1.0	7.0	10.0	4.3	2.3	.0	.0	.3	24.9	75.1	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
00&03	.6	.0	.6	.0	41.7	57.1	156
06&09	.4	.0	.4	.4	58.6	40.2	239
12&15	.0	.5	.5	1.0	43.1	55.0	202
18&21	.0	1.9	1.1	.4	52.5	44.2	265
TOT	2	6	6	4	431	413	862
PCT	.2	.7	.7	.5	50.0	47.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.4	11.4	22.9	65.7	70
06&09	.0	1.7	6.9	15.5	77.6	58
12&15	.0	1.3	8.9	13.9	77.2	79
18&21	.0	.0	9.1	16.9	74.0	77
TOT	0	3	26	49	209	284
PCT	.0	1.1	9.2	17.3	73.6	100.0

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	.6	.2	.2	.0	.0	5	.9
70/74	.0	.2	1.1	.4	2.8	3.8	1.7	1.9	63	11.9
65/69	.0	.2	2.3	4.7	9.2	11.3	14.0	6.2	254	47.9
60/64	.0	.2	2.1	2.5	7.9	8.1	6.4	3.4	162	30.6
55/59	.0	.2	1.1	1.5	1.7	.9	.8	.8	37	7.0
50/54	.0	.0	.0	.0	.9	.4	.0	.4	9	1.7
TOTAL	0	4	35	51	121	131	121	67	530	100.0
PCT	.0	.8	6.6	9.6	22.8	24.7	22.8	12.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.2	.4	.1	.2	.0	.0	.0	.1	.0	.0
	1.4	1.7	2.5	1.7	1.3	.4	1.1	1.3	.0	.4
	3.1	4.4	6.9	5.8	7.8	4.1	3.5	5.5	.0	1.7
	2.6	.9	.6	3.5	8.6	6.9	3.4	2.9	.0	1.1
	.2	.0	.0	.0	1.0	2.8	2.0	.8	.0	.2
	.0	.0	.0	.0	.3	.8	.6	.0	.0	.0
	12.5	7.5	10.0	11.3	19.1	15.0	10.6	10.6	.0	3.4

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	78	75	72	66	59	57	55	66.1	209
06&09	77	76	72	66	60	58	57	66.3	332
12&15	72	71	70	65	59	55	53	65.0	260
18&21	73	71	69	64	56	52	51	63.8	350
TOT	78	73	71	65	58	55	51	65.2	1151

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	23.8	21.8	25.7	19.8	8.9	70	101
06&09	.0	17.9	24.1	21.4	20.7	15.9	73	145
12&15	.0	13.4	20.9	30.6	23.9	11.2	74	134
18&21	.0	13.3	22.5	22.5	26.6	15.0	75	173
TOT	0	91	124	137	128	73	73	553

AUGUST

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1860-1972

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) 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	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
9/10	.0	.0	.0	.0	.0	.3	.0	.0	2	.0	.3
7/8	.0	.0	.0	.0	.2	.2	.6	.0	6	.0	.9
6	.0	.0	.0	.0	.3	.8	.3	.0	9	.0	1.4
5	.0	.0	.0	.0	.3	.2	.2	.2	5	.0	.8
4	.0	.0	.0	.3	.2	.6	.5	.0	10	.0	1.5
3	.0	.0	.0	.3	2.5	.8	.0	.0	23	.0	3.5
2	.0	.0	.2	.9	2.0	.9	.2	.0	27	.2	4.0
1	.0	.2	.0	.9	3.5	3.4	.2	.0	53	.0	8.1
0	.0	.0	.2	.8	3.1	3.4	.5	.0	51	.0	7.8
-1	.0	.0	.2	1.7	6.0	2.9	.0	.0	70	.2	10.6
-2	.2	.0	.5	1.8	7.4	1.4	.0	.0	73	.2	11.1
-3	.0	.0	.3	3.1	6.3	1.1	.0	.0	70	.3	10.4
-4	.0	.2	.9	4.6	5.2	.6	.0	.0	75	.0	11.5
-5	.0	.2	1.2	3.5	3.7	.2	.0	.0	57	.0	8.8
-6	.0	.2	1.2	4.0	.8	.0	.0	.0	40	.0	6.1
-7/-8	.0	.5	2.0	3.5	1.8	.0	.0	.0	51	.0	7.8
-9/-10	.0	.2	1.5	.5	.0	.0	.0	.0	14	.0	2.2
-11/-13	.0	.6	.6	.3	.0	.0	.0	.0	10	.0	1.5
-14/-16	.2	.3	.0	.0	.0	.0	.0	.0	3	.0	.5
-17/-19	.2	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	3	14	57	171	281	108	16	1	681	5	646
PCT	.5	2.2	8.8	26.3	43.2	16.6	2.5	.2	100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.7	.0	.0	.0	.0	2.4
1-2	.3	2.4	1.1	.0	.0	.0	3.9
3-4	.0	1.4	2.4	.0	.0	.0	3.9
5-6	.0	.4	1.5	1.2	.0	.0	3.2
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.1	6.0	5.5	1.2	.0	.0	13.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.9	.0	.0	.0	.0	1.1
1-2	.6	1.1	1.0	.0	.0	.0	2.7
3-4	.0	2.5	2.4	.0	.0	.0	5.0
5-6	.0	.0	.6	.1	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.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
TOT PCT	.8	4.5	4.1	.1	.0	.0	9.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.1	.0	.0	.0	.0	2.9
1-2	.4	4.0	.4	.0	.0	.0	4.9
3-4	.0	1.3	1.9	.0	.0	.0	3.2
5-6	.0	.4	2.0	.3	.0	.0	2.8
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.3	.0	.0	.0	.3
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
TOT PCT	1.2	7.9	5.3	.3	.0	.0	14.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	3.0	1.0	.0	.0	.0	4.0
3-4	.0	.6	3.0	.0	.0	.0	3.5
5-6	.0	1.8	2.4	.0	.0	.0	4.2
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.4	.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
TOT PCT	.0	5.5	6.7	.4	.0	.0	12.7

AUGUST

PERIOD: (OVER-ALL) 1963-1972

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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.1	.0	.0	.0	.0	3.1	.6	1.2	.0	.0	.0	.0	1.8
1-2	.0	3.8	.8	.0	.0	.0	4.5	.0	2.9	.1	.0	.0	.0	3.0
3-4	.0	3.0	3.7	.0	.0	.0	6.6	.0	2.3	3.3	.0	.0	.0	5.6
5-6	.0	.0	.8	.3	.0	.0	1.1	.0	.9	1.3	.6	.0	.0	2.8
7	.0	.0	.8	.0	.0	.0	.8	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
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	.4	.0	.0	.4
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
TOT PCT	.0	9.8	6.0	.8	.0	.0	16.6	.6	7.3	5.2	1.4	.0	.0	14.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.8	.9	.0	.0	.0	.0	1.7	.0	.1	.0	.0	.0	.0	.1	
1-2	.0	.4	.7	.0	.0	.0	1.1	.0	1.4	1.5	.0	.0	.0	3.0	
3-4	.0	.8	1.1	.0	.0	.0	1.9	.0	.0	1.2	.4	.0	.0	1.7	
5-6	.0	.4	1.3	.0	.0	.0	1.8	.0	.0	.7	.1	.0	.0	.8	
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.3	.0	.0	.3	.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	
TOT PCT	.8	2.5	3.5	.3	.0	.0	7.2	.0	1.5	3.9	.7	.0	.0	6.1	95.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.1	10.0	.0	.0	.0	.0	19.1	
1-2	1.7	18.7	6.5	.0	.0	.0	27.0	
3-4	.0	11.7	18.7	.4	.0	.0	30.9	
5-6	.0	3.9	10.4	2.6	.0	.0	17.0	
7	.0	.0	3.0	.0	.0	.0	3.0	
8-9	.0	.0	.4	.4	.0	.0	.9	
10-11	.0	.0	.4	1.3	.0	.0	1.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.4	.0	.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	
TOT PCT	10.9	44.3	39.6	5.2	.0	.0	100.0	230

PERIOD: (OVER-ALL) 1949-1972

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	2.5	7.3	12.7	6.5	5.1	.0	2.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	101	4
6-7	.0	1.1	7.3	12.7	6.5	2.5	1.1	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	5
8-9	.0	1.1	3.6	4.4	3.6	1.5	3.6	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52	6
10-11	.0	.4	.7	1.1	2.5	.7	.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	7
12-13	.0	.0	.7	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
>13	.0	.0	.0	.4	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
INDET	1.5	.4	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	2
TOTAL	11	28	70	70	54	13	20	3	6	0	0	0	0	0	0	0	0	0	0	275	5
PCT	4.0	10.2	25.5	25.5	19.6	4.7	7.3	1.1	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1909-1970
(OVER-ALL) 1872-1970

AREA 0005 BRISBANE
26.7S 153.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.9	.4	.0	.0	.0	.0	.0	4.3	2.0	5.2	5.0	.0	.9		.7	84.5
NE	.0	1.8	.0	.0	.0	.0	.0	1.8	.0	.0	.9	.0	2.2		.0	95.1
E	5.5	14.1	.5	.0	.0	.0	.0	20.1	.0	1.0	.0	.0	1.0		.0	78.9
SE	3.4	15.6	2.0	.0	.0	.0	.0	20.9	.8	.8	2.0	.0	.8		.0	74.7
S	4.8	6.5	.0	.0	.0	.0	.0	11.3	2.7	5.5	.7	.0	2.7		.0	77.1
SW	7.6	1.9	.0	.0	.0	.0	.0	9.5	1.5	3.1	.0	.0	1.5		.0	84.4
W	2.8	3.2	.0	.0	.0	.0	.0	6.0	.0	.0	.0	.0	.0		.0	94.0
NW	5.2	1.6	.0	.0	.0	.0	.0	6.8	.3	2.9	5.7	.0	4.7		.0	80.2
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	4.3		.0	95.7
TOT PCT	4.1	6.0	.4	.0	.0	.0	.0	10.5	1.0	2.5	2.2	.0	1.8		.1	82.6
TOT OBS:	791															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.8	6.3	.7	.0	.0	.0	.0	9.8	.0	.0	2.1	.0	4.9		.0	83.2
06&09	3.6	7.1	.4	.0	.0	.0	.0	11.2	.9	.9	2.2	.0	2.2		.4	82.6
12&15	2.8	2.8	.6	.0	.0	.0	.0	6.3	2.3	4.5	2.3	.0	.0		.0	85.8
18&21	5.6	7.3	.4	.0	.0	.0	.0	13.3	.4	3.4	1.7	.0	.9		.0	81.1
TOT PCT	3.9	6.1	.5	.0	.0	.0	.0	10.4	.9	2.3	2.1	.0	1.8		.1	83.0
TOT OBS:	776															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	8.4	9.2	1.3	.0	.0		20.0	11.8	11.8	21.5	27.2	25.7	28.4	18.8	14.0	13.5
NE	1.5	4.9	2.3	*	.0	.0		8.7	8.1	2.8	9.4	9.9	14.3	7.9	12.2	6.3	4.6
E	.8	6.9	3.7	.2	.0	.0		11.7	9.4	11.1	13.6	11.2	15.6	11.0	10.6	9.7	11.5
SE	1.0	6.7	6.5	1.5	.4	.0		16.1	12.8	7.3	10.9	19.8	20.0	19.4	17.2	15.9	15.0
S	.3	4.2	4.3	1.5	.2	.0		10.5	13.6	15.6	10.9	12.0	6.3	11.8	8.4	10.2	11.5
SW	.3	4.2	4.0	.9	*	.0		9.4	12.2	23.3	11.6	6.7	3.3	4.2	5.0	12.4	12.7
W	.7	4.0	1.7	.9	.0	.0		7.3	10.6	8.7	7.6	3.8	4.8	7.9	5.9	10.5	9.6
NW	1.0	6.2	5.0	1.3	.0	.0		13.6	11.5	18.1	13.7	7.1	8.5	6.2	18.8	17.1	17.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6							2.6	.0	1.4	.7	2.2	1.5	3.4	3.1	4.0	3.8
TOT OBS	107	521	420	87	8	0	1143		11.1	72	151	179	135	89	160	227	130
TOT PCT	9.4	45.6	36.7	7.6	.7	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.1	11.1	4.3	.5	.0		20.0	11.8	18.4	26.6	22.2	13.8
NE	4.1	4.0	.6	.0	.0		8.7	8.1	7.3	11.8	10.6	5.7
E	4.0	6.2	1.4	.0	.0		11.7	9.4	12.8	13.1	10.7	10.4
SE	3.1	8.5	3.8	.5	.2		16.1	12.8	9.8	19.9	18.0	15.5
S	1.4	6.1	2.6	.5	.0		10.5	13.6	12.4	9.6	9.6	10.7
SW	2.1	5.2	1.8	.2	.0		9.4	12.2	15.4	5.3	4.7	12.5
W	2.5	3.4	1.2	.2	.0		7.3	10.6	8.0	4.2	6.6	10.2
NW	3.4	7.0	2.8	.3	.0		13.6	11.5	15.1	7.7	14.3	17.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.6						2.6	.0	.9	1.9	3.2	3.9
TOT OBS	312	589	213	27	2	1143		11.1	223	314	249	357
TOT PCT	27.3	51.5	18.6	2.4	.2		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1909-1970
(OVER-ALL) 1872-1970

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.9	7.6	48.4	35.0	7.2	.9	.0	11.1	100.0	223
06&09	1.9	6.1	44.3	39.8	7.3	.6	.0	11.3	100.0	314
12&15	3.2	5.2	47.8	35.3	8.0	.4	.0	11.2	100.0	249
18&21	3.9	7.8	43.4	36.1	7.8	.8	.0	11.0	100.0	357
TOT	30	77	521	420	87	8	0	11.1		1143
PCT	2.6	6.7	45.6	36.7	7.6	.7	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	10.7	4.6	5.5	1.5		3.0
NE	3.1	1.3	1.8	.4		3.0
E	4.1	3.7	2.5	.3		3.2
SE	5.2	4.4	3.1	1.3		3.4
S	6.6	3.0	2.4	1.3		3.0
SW	7.4	3.1	.8	1.2		2.3
W	6.4	.6	1.3	.0		1.4
NW	8.2	.6	.9	.0		1.1
VAR	.0	.0	.0	.0		.0
CALM	1.8	.4	.4	.0		2.0
TOT OBS	146	59	51	16	272	2.6
TOT PCT	53.7	21.7	18.8	5.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.4	.0	1.9	.6	.0	.0	.6	.0	18.7	
NE	.0	.0	.0	.0	.5	.5	.0	.4	.0	.0	5.3	
E	.0	.0	.0	.6	1.0	.4	.0	.0	.0	.0	8.5	
SE	.0	.0	.0	.9	2.7	.4	.0	.0	.0	.0	10.1	
S	.0	.0	.0	.6	1.7	.4	.0	.0	.0	.0	10.7	
SW	.0	.0	.0	.7	.9	.0	.0	.0	.0	.0	10.9	
W	.0	.0	.0	.7	.3	.0	.0	.0	.0	.0	7.4	
NW	.0	.0	.4	.0	.3	.0	.0	.0	.1	.0	8.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	2.2	
TOT OBS	0	0	2	10	26	6	0	1	2	0	225	272
TOT PCT	.0	.0	.7	3.7	9.6	2.2	.0	.4	.7	.0	82.7	100.0

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 >50YD	= OR >0
= OR >6500	.4	.7	.7	.7	.7	.7	.7	.7
= OR >5000	.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >3500	.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >2000	2.9	3.3	3.3	3.3	3.3	3.3	3.3	3.3
= OR >1000	9.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7
= OR >600	12.7	16.0	16.4	16.4	16.4	16.4	16.4	16.4
= OR >300	13.5	16.7	17.1	17.1	17.1	17.1	17.1	17.1
= OR >150	13.5	16.7	17.1	17.1	17.1	17.1	17.1	17.1
= OR > 0	13.5	16.7	17.1	17.1	17.1	17.1	17.1	17.1
TOTAL	37	46	47	47	47	47	47	47

TOTAL NUMBER OF OBS: 275 PCT FREQ NH <5/8: 82.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
27.6	19.9	16.8	11.1	7.4	4.7	3.0	4.7	4.7	.0	297

PERIOD: (PRIMARY) 1909-1970
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.9	.0	.0	.3	.1	.0	.0	.8	.0	.0	2.1	
	TOT %	.9	.0	.0	.5	.2	.0	.0	.8	.0	.0	2.3	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.1	.1	.3	.0	.0	.5	.0	.1	1.2	
	TOT %	.1	.0	.1	.1	.3	.0	.0	.5	.0	.1	1.2	
2<5	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	TOT %	.1	.0	.0	.0	.1	.0	.0	*	.0	.0	.3	
5<10	PCP	.7	.0	2.4	3.1	.8	.9	.4	.9	.0	.0	9.2	
	NO PCP	7.6	4.4	5.9	7.3	3.6	3.1	2.5	5.9	.0	1.9	42.1	
	TOT %	8.3	4.4	8.3	10.5	4.3	3.9	2.9	6.8	.0	1.9	51.3	
10+	PCP	.1	.1	.2	.3	.1	.0	.0	.0	.0	.0	1.0	
	NO PCP	9.7	3.1	4.4	5.9	5.0	5.0	4.5	5.1	.0	1.1	43.8	
	TOT %	9.8	3.2	4.7	6.2	5.1	5.0	4.5	5.1	.0	1.1	44.7	
	TOT OBS												731
	TOT PCT	19.3	7.7	13.1	17.3	10.0	9.0	7.4	13.1	.0	3.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.1	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.0	.1	.1	.0	.0	.3	.0		.6	
	11-21	.1	.0	.0	.4	.1	.0	.0	.2	.0		.8	
	22+	.6	.0	.0	.0	.0	.0	.0	.2	.0		.8	
	TOT %	.8	.0	.0	.4	.2	.0	.0	.7	.0	.0	2.2	
1<2	0-3	.0	.0	.0	.1	.0	.0	.0	.1	.0	.1	.4	
	4-10	.1	.0	.0	.0	.3	.0	.0	.2	.0		.5	
	11-21	.0	.0	.1	.0	.0	.0	.0	.1	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.1	.1	.3	.0	.0	.4	.0	.1	1.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.1	.0	.0	.0	.1	.0	.0	*	.0		.3	
	TOT %	.1	.0	.0	.0	.1	.0	.0	*	.0	.0	.3	
5<10	0-3	.6	1.0	.3	.6	.2	.1	.1	.4	.0	1.9	5.2	
	4-10	2.7	2.1	4.0	3.8	1.9	2.1	1.7	2.3	.0		20.6	
	11-21	4.2	1.0	3.3	4.3	1.6	1.4	.9	2.8	.0		19.5	
	22+	.2	.0	.1	1.3	.6	.2	.1	.9	.0		3.4	
	TOT %	7.8	4.1	7.7	9.9	4.3	3.8	2.8	6.4	.0	1.9	48.7	
10+	0-3	.5	.5	.6	.3	.1	.1	.5	.3	.0	1.0	3.9	
	4-10	4.1	1.7	3.3	3.8	2.4	2.3	2.8	3.3	.0		23.8	
	11-21	5.1	1.5	1.1	2.4	2.1	2.5	.3	1.8	.0		16.8	
	22+	.5	.1	.1	.4	.4	.4	.7	.5	.0		3.1	
	TOT %	10.1	3.8	5.0	6.9	5.0	5.4	4.4	6.0	.0	1.0	47.6	
	TOT OBS												786
	TOT PCT	19.0	8.0	12.8	17.4	9.8	9.2	7.3	13.6	.0	3.1	100.0	

PERIOD: (PRIMARY) 1909-1970
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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
00&03	.0	.0	.0	2.8	7.0	1.4	.0	.0	.0	.0	11.3	88.7	71
06&09	.0	.0	.0	2.7	5.4	1.4	.0	.0	1.4	.0	10.8	89.2	74
12&15	.0	.0	1.2	6.2	9.9	4.9	.0	.0	.0	.0	22.2	77.8	81
18&21	.0	.0	1.5	1.5	13.4	.0	.0	1.5	1.5	.0	19.4	80.6	67
TOT	0	0	2	10	26	6	0	1	2	0	47	246	293
PCT	.0	.0	.7	3.4	8.9	2.0	.0	.3	.7	.0	16.0	84.0	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
00&03	.0	2.0	2.0	.0	42.8	53.3	152
06&09	.4	2.5	1.3	.4	56.5	38.8	237
12&15	.0	2.1	.5	.0	40.4	56.9	188
18&21	.0	1.6	1.2	.4	56.3	40.6	254
TOT	1	17	10	2	418	383	831
PCT	.1	2.0	1.2	.2	50.3	46.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	3.0	9.0	88.1	67
06&09	.0	.0	4.3	8.6	87.1	70
12&15	.0	1.3	7.6	15.2	77.2	79
18&21	.0	1.7	3.4	18.6	78.0	59
TOT	0	2	13	35	227	275
PCT	.0	.7	4.7	12.7	82.5	100.0

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
80/84	.0	.0	.0	.0	.0	.2	.0	.0	1	.2
75/79	.0	.0	.4	.5	1.3	1.3	.2	.4	22	4.0
70/74	.0	.0	.7	2.2	5.3	6.7	10.3	4.9	166	30.1
65/69	.0	.0	2.0	5.6	9.8	9.8	13.6	11.4	288	52.2
60/64	.0	.0	1.3	1.1	1.4	3.3	2.7	3.1	71	12.9
55/59	.0	.0	.4	.0	.4	.0	.0	.0	4	.7
TOTAL	0	0	26	52	100	117	148	109	552	100.0
PCT	.0	.0	4.7	9.4	18.1	21.2	26.8	19.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.8	.3	.5	.3	.2	.2	.0	.5	.0	.4
10.6	2.8	2.3	3.1	1.1	2.5	2.0	5.0	.0	.7
8.1	3.4	9.0	10.1	5.4	4.1	3.4	6.6	.0	2.2
.4	.1	1.7	1.6	3.3	3.2	1.7	.5	.0	.4
.0	.0	.0	.0	.0	.2	.5	.0	.0	.0
21.0	6.5	13.5	15.0	10.0	10.1	7.7	12.6	.0	3.6

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	81	78	74	69	63	58	57	69.1	221
06&09	82	79	75	69	64	61	60	69.5	323
12&15	76	74	72	67	62	59	57	67.3	255
18&21	78	75	71	67	61	59	56	66.6	370
TOT	82	77	74	68	62	59	56	68.0	1169

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	17.9	19.8	22.6	26.4	13.2	74	106
06&09	.0	19.9	15.4	19.9	24.4	20.5	75	156
12&15	.0	10.2	23.8	19.7	25.2	21.1	76	147
18&21	.0	8.7	12.8	22.1	29.7	26.7	80	172
TOT	0	80	102	122	154	123	77	581

SEPTEMBER

PERIOD: (PRIMARY) 1909-1970
(OVER-ALL) 1872-1970

AREA 0005 BRISBANE
26.7S 153.4E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA THP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
11/13	.0	.0	.2	.0	.2	.0	.0	2	.0	.3
9/10	.0	.0	.0	.0	.2	.3	.0	3	.0	.5
7/8	.0	.2	.0	.0	1.1	.0	.2	9	.0	1.4
6	.0	.0	.0	.2	1.1	.5	.0	11	.0	1.7
5	.0	.0	.2	.6	.2	.0	.0	6	.0	.9
4	.0	.0	.3	2.0	1.7	.2	.0	27	.0	4.2
3	.0	.0	.6	3.7	1.4	.0	.0	37	.0	5.7
2	.0	.3	1.2	5.4	2.2	.0	.0	59	.2	9.0
1	.0	.2	3.6	6.4	1.1	.0	.0	72	.6	10.5
0	.0	.3	6.4	6.5	1.1	.2	.0	93	.9	13.5
-1	.0	.8	6.5	5.1	.2	.0	.0	81	.5	12.1
-2	.0	.9	6.0	1.7	.2	.0	.0	57	.0	8.8
-3	.0	1.6	7.4	2.0	.0	.0	.0	71	.0	11.0
-4	.0	1.7	3.6	.3	.0	.0	.0	36	.2	5.4
-5	.2	1.4	1.9	.5	.0	.0	.0	25	.0	3.9
-6	.3	.9	1.6	.5	.0	.0	.0	21	.0	3.3
-7/-8	.8	2.0	1.1	.0	.0	.0	.0	25	.0	3.8
-9/-10	.8	.6	.2	.0	.0	.0	.0	10	.0	1.6
TOTAL	13	70	262	225	67	7	1	645	15	630
PCT	2.0	10.9	40.6	34.9	10.4	1.1	.2	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.0	.0	.0	.0	.0	2.2
1-2	.3	6.0	2.7	.0	.0	.0	8.9
3-4	.0	.9	2.7	.0	.0	.0	3.5
5-6	.0	.4	5.0	.0	.0	.0	5.4
7	.0	.0	1.6	.3	.0	.0	1.9
8-9	.0	.0	.4	.4	.0	.0	.9
10-11	.0	.0	.0	.3	.0	.0	.3
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
TOT PCT	1.6	8.2	12.3	1.1	.0	.0	23.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	46+	PCT
<1	.5	.9	.0	.0	.0	.0	1.4
1-2	.1	1.6	.3	.0	.0	.0	2.0
3-4	.0	1.0	.6	.0	.0	.0	1.6
5-6	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.6	3.4	2.2	.0	.0	.0	6.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.0	.0	.0	.0	1.2
1-2	.4	3.2	.0	.0	.0	.0	3.6
3-4	.0	2.0	1.6	.0	.0	.0	3.6
5-6	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.7	6.1	2.8	.0	.0	.0	9.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.6	.4	.0	.0	.0	3.0
1-2	.4	2.2	.5	.0	.0	.0	3.2
3-4	.0	.5	2.2	.0	.0	.0	2.8
5-6	.0	.0	2.4	.4	.0	.0	2.9
7	.0	.9	.9	.4	.0	.0	2.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	6.2	6.5	.9	.0	.0	13.9

PERIOD: (OVER-ALL) 1963-1970

SEPTEMBER

TABLE 18 (CONT)

AREA 0005 BRISBANE
26.7S 153.4E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.4
1-2	.0	3.9	.7	.0	.0	.0	4.7	.0	2.6	1.3	.0	.0	.0	3.8
3-4	.0	.7	2.1	.0	.0	.0	2.9	.0	.4	4.3	.4	.0	.0	5.1
5-6	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	2.7	.0	.0	.0	2.7
7	.0	.0	.0	.4	.0	.0	.4	.	.0	.4	.9	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
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	.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
TOT PCT	.0	5.1	5.5	.4	.0	.0	11.1	.0	3.4	8.6	2.0	.0	.0	14.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.6	.4	.0	.0	.0	.0	1.1	.2	2.4	.0	.0	.0	.0	2.7	
1-2	.0	4.0	.4	.0	.0	.0	4.5	.0	2.4	.4	.0	.0	.0	2.9	
3-4	.0	.7	.3	.0	.0	.0	1.1	.0	1.4	1.5	.0	.0	.0	2.9	
5-6	.0	.4	.0	.4	.0	.0	.9	.0	.0	.6	.0	.0	.0	.6	
7	.0	.0	.4	1.3	.0	.0	1.7	.0	.0	.0	.1	.0	.0	.1	
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.4	.0	.0	.4	
10-11	.0	.0	.0	.3	.0	.0	.3	.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	.3	.0	.0	.3	.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	
TOT PCT	.6	5.6	1.2	2.7	.0	.0	10.1	.2	6.3	2.6	.6	.0	.0	9.7	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.9	8.9	.4	.0	.0	.0	15.2	
1-2	1.3	25.7	6.3	.0	.0	.0	33.3	
3-4	.0	7.6	15.2	.4	.0	.0	23.2	
5-6	.0	.8	15.6	.8	.0	.0	17.3	
7	.0	.8	3.4	3.4	.0	.0	7.6	
8-9	.0	.0	.4	1.7	.0	.0	2.1	
10-11	.0	.0	.0	.8	.0	.0	.8	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.4	.0	.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	
								237
TOT PCT	7.2	43.9	41.4	7.6	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1970

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	2.6	10.1	13.8	8.6	4.5	.7	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	109	4
6-7	.0	3.7	7.1	11.2	7.5	1.5	1.1	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	89	5
8-9	.0	.0	3.4	3.0	4.5	1.1	1.5	.7	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	7
10-11	.0	.0	1.5	1.9	.7	.4	.7	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	16	7
12-13	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
>13	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	1.1	.4	.4	1.5	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	4
TOTAL	10	38	70	70	46	12	10	3	8	0	1	0	0	0	0	0	0	0	0	268	5
PCT	3.7	14.2	26.1	26.1	17.2	4.5	3.7	1.1	3.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1912-1971
(OVER-ALL) 1872-1971

AREA 0005 BRISBANE
26.7S 153.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.6	3.1	.0	.0	.0	.0	.0	4.7	.5	3.9	1.3	.0	5.2	.0	84.5
NE	1.0	.5	1.0	.0	.0	.0	.0	2.5	2.2	2.7	.0	.0	3.4	.0	90.2
E	1.8	4.8	.9	.0	.0	.0	.0	7.5	1.5	1.3	1.3	.0	2.2	.0	87.0
SE	3.9	7.6	.4	.0	.0	.0	.0	11.8	2.3	.0	.4	.0	5.4	.0	80.0
S	6.1	3.8	1.5	.0	.0	.0	.0	11.5	1.0	2.8	2.0	.0	7.6	.0	75.1
SW	5.2	.0	.0	.0	.0	.0	.0	5.2	.0	5.2	.0	.0	.0	.0	93.8
W	6.5	3.7	3.7	.0	.0	.0	.0	14.0	.0	.0	.0	.0	3.7	.0	82.2
NW	6.0	.7	.0	.0	.0	.0	.0	6.7	.3	8.7	2.7	.0	4.4	.0	78.5
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	.0	.0	100.0
TOT PCT	3.3	3.6	.7	.0	.0	.0	.0	7.5	1.2	2.9	1.1	.0	4.5	.0	83.3
TOT OBS:	731														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.0	3.4	.0	.0	.0	.0	.0	7.4	3.4	.0	.0	.0	5.4	.0	83.9
06&09	3.2	2.3	.5	.0	.0	.0	.0	5.9	.5	2.3	.9	.0	8.2	.0	83.6
12&15	2.3	4.0	1.2	.0	.0	.0	.0	7.5	1.2	6.4	.6	.0	2.3	.0	82.7
18&21	5.2	3.9	.9	.0	.0	.0	.0	10.0	.4	3.0	2.6	.0	2.2	.0	82.6
TOT PCT	3.8	3.4	.6	.0	.0	.0	.0	7.8	1.2	3.0	1.2	.0	4.5	.0	83.1
TOT OBS:	771														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	11.0	9.2	1.1	.1	.0		22.6	11.1	21.3	19.8	23.0	28.7	21.2	26.1	19.0	22.5
NE	.9	8.9	3.3	.3	.0	.0		13.4	8.9	11.3	8.2	19.3	19.1	13.3	10.1	11.5	13.5
E	.8	9.8	4.1	.5	*	.0		15.2	9.5	17.2	13.4	16.8	17.6	24.5	16.0	11.8	8.1
SE	.5	8.0	7.0	1.4	.2	.0		17.0	12.1	15.3	18.7	19.5	18.0	14.1	16.4	17.8	13.1
S	.8	5.3	4.2	1.1	.2	.0		11.7	11.8	17.8	14.2	11.4	4.0	14.9	7.9	11.2	17.6
SW	.3	1.9	1.6	.3	.0	.0		4.1	11.4	2.8	3.7	2.0	2.6	.8	5.7	6.4	6.3
W	.7	2.1	.8	.2	.0	.0		3.8	8.6	4.4	3.4	1.7	3.7	3.0	4.7	4.4	5.4
NW	1.2	5.3	4.1	.4	.0	.0		11.0	10.1	10.0	14.2	5.2	5.5	7.1	13.2	16.5	12.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0	.0	4.5	1.1	.7	1.1	.0	1.4	.9
TOT OBS	85	578	378	58	5	0	1104		10.5	80	134	174	136	92	159	218	111
TOT PCT	7.7	52.4	34.2	5.3	.5	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.4	13.1	3.7	.5	.0		22.6	11.1	20.3	25.5	24.3	20.2
NE	4.4	8.1	.9	.0	.0		13.4	8.9	9.3	19.2	11.3	12.2
E	4.7	9.2	1.2	.1	.0		15.2	9.5	14.8	17.2	19.1	10.6
SE	3.0	10.2	3.4	.4	.0		17.0	12.1	17.4	18.9	15.5	16.2
S	2.5	6.7	2.1	.4	.0		11.7	11.8	15.5	8.1	10.5	13.4
SW	.9	2.3	.9	*	.0		4.1	11.4	3.4	2.3	3.9	6.4
W	1.4	2.1	.3	.0	.0		3.8	8.6	3.7	2.6	4.1	4.7
NW	3.1	6.4	1.5	.0	.0		11.0	10.1	12.6	5.3	11.0	15.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	2.8	1.0	.4	1.2
TOT OBS	293	642	153	16	0	1104		10.5	214	310	251	329
TOT PCT	26.5	58.2	13.9	1.4	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.8	6.5	48.6	36.4	5.1	.5	.0	10.3	100.0	214
06&09	1.0	5.5	51.9	34.8	5.8	1.0	.0	11.0	100.0	310
12&15	.4	5.6	55.0	33.5	5.6	.0	.0	10.5	100.0	251
18&21	1.2	7.9	53.2	32.8	4.6	.3	.0	10.1	100.0	329
TOT	14	71	578	378	58	5	0	10.5		1104
PCT	1.3	6.4	52.4	34.2	5.3	.5	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	12.5	4.0	1.4	1.8		2.4
NE	6.2	3.9	2.7	1.6		3.3
E	5.1	7.2	2.8	1.9		3.7
SE	7.0	5.1	3.4	4.0		4.0
S	3.8	3.4	4.1	2.4		4.4
SW	.6	.8	1.4	.1		4.0
W	1.7	.0	.6	1.0		3.7
NW	3.5	2.0	2.3	.8		3.4
VAR	.0	.0	.0	.0		.0
CALM	.4	.4	.0	.0		1.5
TOT OBS	111	73	51	37	272	3.5
TOT PCT	40.8	26.8	18.8	13.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.4	.7	1.2	.0	.0	.0	.0	17.5	
NE	.0	.0	.0	.6	1.2	.3	.4	.0	.0	.0	11.9	
E	.0	.0	.0	1.6	.9	.9	.0	.0	.4	.0	13.3	
SE	.0	.0	.0	2.6	2.9	.6	.4	.0	.0	.0	13.1	
S	.0	.0	.4	1.7	1.6	1.1	.0	.0	.0	.0	8.9	
SW	.0	.0	.0	.2	.8	.0	.0	.0	.0	.4	1.6	
W	.0	.0	.0	.4	.6	.0	.0	.0	.0	.0	2.4	
NW	.0	.0	.0	.7	.4	.0	.0	.0	.0	.0	7.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
TOT OBS	0	0	1	22	25	11	2	0	1	1	209	272
TOT PCT	.0	.0	.4	8.1	9.2	4.0	.7	.0	.4	.4	76.8	100.0

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 >50YD	= OR >0
= OR >6500	.7	.7	.7	.7	.7	.7	.7	.7
= OR >5000	.7	.7	.7	.7	.7	.7	.7	.7
= OR >3500	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >2000	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
= OR >1000	13.0	14.5	14.9	14.9	14.9	14.9	14.9	14.9
= OR >600	18.8	22.1	22.5	22.5	22.5	22.8	22.8	22.8
= OR >300	18.8	22.5	22.8	22.8	22.8	23.2	23.2	23.2
= OR >150	18.8	22.5	22.8	22.8	22.8	23.2	23.2	23.2
= OR > 0	18.8	22.5	22.8	22.8	22.8	23.2	23.2	23.2
TOTAL	52	62	63	63	63	64	64	64

TOTAL NUMBER OF OBS: 276 PCT FREQ NH <5/8: 76.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
15.8	20.1	16.1	14.1	9.1	5.0	5.0	4.4	10.4	.0	298

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.4	.0	.2	.1	.3	.0	.0	.3	.0	.0	1.2	
	TOT %	.4	.0	.2	.1	.3	.0	.0	.3	.0	.0	1.2	
1<2	PCP	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.4	
	NO PCP	.8	.5	.2	.8	1.0	.0	.1	.4	.0	.0	3.8	
	TOT %	.8	.6	.2	1.0	1.2	.0	.1	.4	.0	.0	4.2	
2<5	PCP	.1	*	.0	.1	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	*	.0	.1	.0	.0	.0	.0	.0	.0	.3	
5<10	PCP	.7	.1	1.0	1.6	1.2	.2	.5	.7	.0	.0	6.0	
	NO PCP	11.3	7.3	5.8	7.1	4.9	1.6	1.2	5.3	.0	.1	44.7	
	TOT %	12.0	7.5	6.9	8.8	6.1	1.8	1.7	6.0	.0	.1	50.8	
10+	PCP	.2	*	.1	.1	.2	.0	.0	.0	.0	.0	.7	
	NO PCP	8.3	5.8	8.1	7.5	5.7	1.5	1.8	3.6	.0	.4	42.7	
	TOT %	8.5	5.8	8.2	7.6	6.0	1.5	1.8	3.6	.0	.4	43.4	
	TOT OBS												731
	TOT PCT	21.8	13.9	15.5	17.6	13.4	3.3	3.7	10.2	.0	.5	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	4-10	.0	.0	.1	.0	.1	.0	.0	.0	.0		.2	
	11-21	.1	.0	.1	.1	.1	.0	.0	.1	.0		.5	
	22+	.2	.0	.0	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.4	.0	.2	.1	.2	.0	.0	.2	.0	.0	1.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	4-10	.2	.4	.2	.1	.7	.0	.0	.2	.0		1.8	
	11-21	.4	.1	.0	.7	.4	.0	.0	.1	.0		1.7	
	22+	.1	.1	.0	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.8	.6	.2	.9	1.0	.0	.1	.4	.0	.0	3.9	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.1	.0	.0		.1	
	11-21	.2	*	.0	.1	.2	.1	.0	.2	.0		.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	*	.0	.1	.2	.1	.1	.2	.0	.0	1.0	
5<10	0-3	.9	.8	.5	.1	.5	.1	.3	.6	.0	.1	3.9	
	4-10	5.8	4.2	3.5	3.1	2.6	.8	1.1	2.9	.0		23.9	
	11-21	3.9	2.1	1.9	3.4	2.0	.7	.2	1.8	.0		16.0	
	22+	.9	.1	.5	1.3	.4	.1	.2	.4	.0		3.8	
	TOT %	11.4	7.1	6.4	7.9	5.5	1.7	1.7	5.8	.0	.1	47.6	
10+	0-3	.6	.1	.2	.1	.3	.1	.1	.4	.0	.4	2.2	
	4-10	4.6	4.2	5.9	4.6	2.4	.6	1.1	2.7	.0		26.1	
	11-21	5.2	1.4	2.0	2.7	2.0	.6	.5	1.7	.0		16.0	
	22+	.1	.1	.0	.5	1.0	.1	.0	.1	.0		2.0	
	TOT %	10.4	5.8	8.1	7.8	5.8	1.4	1.7	5.0	.0	.4	46.3	
	TOT OBS												817
	TOT PCT	23.2	13.5	14.9	16.8	12.7	3.1	3.7	11.6	.0	.5	100.0	

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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
00&03	.0	.0	1.3	7.7	3.8	3.8	.0	.0	.0	.0	16.7	83.3	78
06&09	.0	.0	.0	10.5	5.3	7.0	.0	.0	1.8	.0	24.6	75.4	57
12&15	.0	.0	.0	6.0	12.0	3.6	1.2	.0	.0	.0	22.9	77.1	83
18&21	.0	.0	.0	7.1	12.9	2.9	1.4	.0	.0	1.4	25.7	74.3	70
TOT	0	0	1	22	25	12	2	0	1	1	64	224	288
PCT	.0	.0	.3	7.6	8.7	4.2	.7	.0	.3	.3	22.2	77.8	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
00&03	.0	.0	4.5	.6	36.9	58.0	157
06&09	.0	1.2	7.8	.0	56.7	34.3	245
12&15	.0	.5	1.5	2.0	42.9	53.0	198
18&21	.4	2.3	1.6	1.2	53.5	41.1	258
TOT	1	10	33	8	420	386	858
PCT	.1	1.2	3.8	.9	49.0	45.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.3	9.2	7.9	82.9	76
06&09	.0	.0	10.7	14.3	75.0	56
12&15	.0	.0	6.5	18.2	75.3	77
18&21	.0	1.5	9.0	17.9	73.1	67
TOT	0	2	24	40	212	276
PCT	.0	.7	8.7	14.5	76.8	100.0

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
80/84	.0	.0	.0	.2	.4	.2	.0	.0	4	.7
75/79	.0	.0	.2	.9	1.7	4.6	3.0	2.2	68	12.6
70/74	.0	.6	1.1	3.0	10.4	13.9	17.1	7.8	290	53.9
65/69	.0	.2	.7	2.6	5.9	7.6	9.9	4.6	170	31.6
60/64	.0	.0	.2	.0	.4	.2	.0	.4	6	1.1
TOTAL	0	4	12	36	101	143	161	81	538	100.0
PCT	.0	.7	2.2	6.7	18.8	26.6	29.9	15.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.4	*	.2	.1	.0	.0	.0	.0	.0	.0
	3.6	2.8	2.4	1.1	.9	.2	.0	1.7	.0	.0
	13.3	9.0	8.1	9.6	5.1	1.2	1.2	6.3	.0	.2
	4.7	3.6	4.3	5.6	6.5	1.5	1.8	3.0	.0	.6
	.0	.0	.0	.2	.3	.1	.6	.0	.0	.0
	22.0	15.4	15.1	16.6	12.7	3.0	3.6	10.9	.0	.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	85	81	78	72	67	63	62	72.3	216
06&09	81	78	77	71	67	64	62	71.4	309
12&15	79	77	74	70	65	63	61	70.1	257
18&21	77	76	74	69	65	63	60	69.5	341
TOT	85	79	76	71	65	63	60	70.7	1123

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	17.3	20.9	28.2	22.7	10.9	72	110
06&09	.0	7.9	21.9	29.1	28.5	12.6	75	151
12&15	.0	8.5	11.5	28.5	36.9	14.6	78	130
18&21	.0	6.6	18.0	22.2	29.3	24.0	78	167
TOT	0	53	101	149	165	90	76	558

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.2	.0	.0	1	.0	.2
9/10	.0	.0	.0	.0	.0	.3	2	.0	.3
7/8	.0	.0	.0	.2	.2	.5	5	.0	.8
6	.0	.0	.0	.0	.8	.5	8	.0	1.3
5	.0	.0	.0	.3	2.0	.6	19	.0	3.0
4	.0	.0	.0	1.3	1.7	.5	22	.0	3.4
3	.0	.0	.2	.6	3.4	.6	31	.0	4.8
2	.0	.0	.9	3.4	3.0	.5	50	.3	7.5
1	.0	.0	1.9	6.6	3.6	.3	79	.2	12.2
0	.0	.2	1.9	9.2	4.5	.0	101	.2	15.6
-1	.0	.2	2.2	10.9	2.5	.0	101	.2	15.6
-2	.0	.2	3.6	5.8	.8	.0	66	.2	10.2
-3	.0	.0	5.2	3.8	.8	.0	62	.0	9.7
-4	.0	.2	3.1	4.1	.0	.0	47	.2	7.2
-5	.0	.0	1.7	1.4	.0	.2	21	.2	3.1
-6	.0	.0	1.4	.3	.0	.0	11	.0	1.7
-7/-8	.0	.2	1.4	.0	.0	.0	10	.2	1.4
-9/-10	.2	.0	.2	.0	.0	.0	2	.0	.3
-11/-13	.0	.0	.3	.0	.0	.0	2	.0	.3
TOTAL	1	5	153	307	149	25	640	9	631
PCT	.2	.8	23.9	48.0	23.3	3.9	100.0	1.4	98.6

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.9	.0	.0	.0	.0	1.3
1-2	.0	4.9	2.2	.0	.0	.0	7.1
3-4	.0	.9	4.0	.0	.0	.0	4.9
5-6	.0	.0	3.9	.0	.0	.0	3.9
7	.0	.0	1.2	.0	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	6.6	11.3	.0	.0	.0	18.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	4.3	.5	.0	.0	.0	4.9
3-4	.0	3.7	2.0	.0	.0	.0	5.7
5-6	.0	.5	.3	.0	.0	.0	.9
7	.0	.4	.5	.4	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	10.2	3.4	.4	.0	.0	14.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.6	.0	.0	.0	.0	2.6
1-2	.0	4.2	1.8	.0	.0	.0	6.1
3-4	.0	6.2	1.1	.0	.0	.0	7.3
5-6	.0	.8	1.8	.0	.0	.0	2.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	13.8	4.8	.0	.0	.0	18.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.7	.4	.0	.0	.0	3.2
1-2	.0	6.7	.5	.0	.0	.0	7.3
3-4	.0	1.8	3.7	.1	.0	.0	5.7
5-6	.0	.9	2.1	.0	.0	.0	2.9
7	.0	.0	.9	.0	.5	.0	1.4
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.1	.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
TOT PCT	.0	12.2	7.6	1.1	.5	.0	21.4

OCTOBER

PERIOD: (OVER-ALL) 1963-1971

AREA 0005 BRISBANE
26.7S 153.4E

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	4.5	.0	.0	.0	.0	4.5
3-4	.0	.0	.8	.8	.0	.0	1.5
5-6	.4	.0	2.1	.4	.0	.0	2.9
7	.0	.0	1.3	.0	.3	.0	1.6
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.2	.0	.0	1.2
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
TOT PCT	.4	4.9	4.1	2.8	.3	.0	12.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.4	.1	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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	2.0	.5	.0	.0	.0	2.5
TOT PCT							

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.8	.0	.0	.0	.0	1.8
3-4	.0	.9	.4	.0	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	2.7	.4	.0	.0	.0	3.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.9	.0	.0	.0	.0	.9	
1-2	.4	3.3	.5	.0	.0	.0	4.2	
3-4	.0	.9	1.0	.4	.0	.0	2.3	
5-6	.0	.0	.7	.0	.0	.0	.7	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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+	.4	5.0	2.2	.4	.0	.0	8.0	98.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.7	9.9	.4	.0	.0	.0	12.1	
1-2	.9	30.2	5.6	.0	.0	.0	36.6	
3-4	.0	14.7	12.9	1.3	.0	.0	28.9	
5-6	.4	2.2	10.8	.4	.0	.0	13.8	
7	.0	.4	4.3	.4	.9	.0	6.0	
8-9	.0	.0	.0	.9	.0	.0	.9	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.0	1.3	.0	.0	1.3	
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	
TOT PCT	3.0	57.3	34.1	4.7	.9	.0	100.0	232

PERIOD: (OVER-ALL) 1950-1971

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	1.9	13.8	13.0	10.4	3.7	.0	.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	4
6-7	.0	3.7	8.6	9.3	4.1	3.0	1.5	1.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	5
8-9	.0	.0	2.2	3.3	3.7	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	6
10-11	.0	.4	.0	.7	1.1	.0	.4	.0	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	9
12-13	.0	.0	.4	.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
>13	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	1.5	.7	2.6	.0	1.5	1.1	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	4
TOTAL	9	50	72	66	41	14	7	3	5	2	0	0	0	0	0	0	0	0	0	269	5
PCT	3.3	18.6	26.8	24.5	15.2	5.2	2.6	1.1	1.9	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1869-1972

AREA 0005 BRISBANE
26.8S 153.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.8	3.0	.0	.0	.0	.0	.0	5.8	.7	1.9	3.1	.0	2.8	.0	85.7
NE	2.7	3.6	.0	.0	.0	.0	.0	6.3	.9	3.6	.0	.0	2.2	.0	87.9
E	2.2	4.0	.4	.0	.0	.0	.0	6.7	.0	4.0	.4	.0	.7	.0	88.2
SE	3.0	9.7	.3	.0	.0	.0	.0	13.0	.6	2.6	2.3	.0	.7	.6	81.3
S	1.8	11.2	1.0	.0	.0	.0	.0	14.0	1.0	2.0	2.5	.0	9.2	.0	71.2
SW	2.4	1.2	.0	.0	.0	.0	.0	3.7	.0	.0	26.8	.0	14.6	.0	54.9
W	5.4	.0	.0	.0	.0	.0	.0	5.4	.0	6.8	18.9	.0	5.4	.0	63.5
NW	.0	.5	.0	.0	.0	.0	.0	.5	.0	3.9	6.8	.0	2.9	.0	85.9
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	14.3	.0	.0	14.3	.0	71.4
TOT PCT	2.4	5.6	.3	.0	.0	.0	.0	8.3	.5	3.0	3.3	.0	3.3	.1	81.9
TOT OBS:	736														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.7	6.0	.0	.0	.0	.0	.0	8.7	.0	.7	4.7	.0	4.0	.7	82.0
06&09	1.4	6.0	.0	.0	.0	.0	.0	7.4	.5	.5	2.8	.0	3.7	.0	85.2
12&15	4.0	3.4	.0	.0	.0	.0	.0	7.4	1.1	8.5	2.3	.0	1.7	.0	79.5
18&21	2.3	6.5	.9	.0	.0	.0	.0	9.8	.5	3.3	3.7	.0	3.7	.0	79.5
TOT PCT	2.5	5.5	.3	.0	.0	.0	.0	8.3	.5	3.2	3.3	.0	3.3	.1	81.6
TOT OBS:	737														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	7.6	8.4	1.7	.0	.0		18.5	12.2	22.0	18.2	18.5	18.4	27.4	21.0	15.0	12.6
NE	1.7	9.2	3.8	.3	.0	.0		15.0	8.6	16.3	10.5	17.8	20.2	14.9	20.3	10.8	9.1
E	1.6	9.2	4.1	.2	.0	.0		15.1	8.9	9.3	17.6	16.5	15.1	22.8	12.6	15.3	10.9
SE	1.2	8.3	10.1	2.1	*	.8		22.5	14.1	21.0	19.9	27.3	25.7	14.9	24.4	21.5	20.9
S	.6	3.9	5.6	2.0	.4	*		12.5	14.4	13.3	17.2	9.7	10.3	9.2	8.2	13.3	20.4
SW	.4	1.9	1.3	.0	*	.0		3.7	9.7	4.0	4.3	.7	2.2	1.1	1.6	6.6	8.7
W	.2	1.6	1.0	*	.0	.0		2.8	9.9	3.3	2.7	1.9	2.6	1.9	1.9	3.5	4.8
NW	.2	4.4	3.2	.1	.0	.0		8.0	10.6	10.7	6.4	7.1	3.3	6.5	8.1	10.4	11.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0	.0	3.1	.6	2.2	1.1	1.9	3.5	.9
TOT OBS	92	496	403	70	5	9	1075		11.3	75	128	173	136	92	155	201	115
TOT PCT	8.6	46.1	37.5	6.5	.5	.8		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.6	10.5	4.2	.2	.0		18.5	12.2	19.6	18.4	23.4	14.2
NE	6.6	7.0	1.5	.0	.0		15.0	8.6	12.7	18.9	18.3	10.2
E	6.0	7.4	1.5	.1	.0		15.1	8.9	14.5	15.9	16.4	13.7
SE	3.9	11.8	5.4	.6	.8		22.5	14.1	20.3	26.6	20.9	21.3
S	2.1	6.1	3.4	.7	.2		12.5	14.4	15.8	10.0	8.6	15.9
SW	1.2	2.1	.3	*	.0		3.7	9.7	4.2	1.4	1.4	7.4
W	.7	1.9	.2	.0	.0		2.8	9.9	3.0	2.2	1.9	4.0
NW	2.0	4.7	1.2	*	.0		8.0	10.6	8.0	5.4	7.5	10.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.9						1.9	.0	2.0	1.3	1.6	2.5
TOT OBS	301	554	191	18	11	1075		11.3	203	309	247	316
TOT PCT	28.0	51.5	17.8	1.7	1.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.0	7.9	47.8	35.5	5.9	.5	.5	11.1	100.0	203
06&09	1.3	4.2	44.7	42.7	5.8	.6	.0	11.6	100.0	309
12&15	1.6	5.3	44.5	40.1	7.3	.4	.8	11.5	100.0	247
18&21	2.5	9.5	47.8	31.6	7.0	.3	1.3	11.0	100.0	316
TOT	20	72	496	403	70	5	9	11.3		1075
PCT	1.9	6.7	46.1	37.5	6.5	.5	.8		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	11.8	3.8	4.3	3.1		3.1
NE	6.8	3.9	3.8	2.7		3.7
E	5.9	4.2	3.3	2.3		3.7
SE	6.5	4.7	4.3	3.8		4.0
S	2.6	2.8	2.2	2.9		4.6
SW	1.1	.4	.7	.8		4.2
W	1.3	.5	.0	.4		3.1
NW	4.9	1.6	1.0	1.1		2.9
VAR	.0	.0	.0	.0		.0
CALM	.7	.0	.0	.0		.5
TOT OBS	117	62	55	48	282	3.6
TOT PCT	41.5	22.0	19.5	17.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.4	2.0	1.1	.4	.0	.0	.0	19.2	
NE	.0	.0	.1	1.1	1.6	.7	.0	.0	.0	.0	18.7	
E	.0	.0	1.0	.7	1.0	.0	.0	.3	.0	.0	12.7	
SE	.0	.0	.0	.5	3.6	2.2	.0	.1	.0	.4	12.4	
S	.0	.0	.0	1.2	2.4	1.0	.0	.0	.0	.0	6.0	
SW	.0	.0	.0	.8	.4	.4	.0	.0	.0	.0	1.5	
W	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	1.9	
NW	.0	.0	.0	.0	.1	.4	.0	.0	.0	.7	7.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
TOT OBS	0	0	3	13	31	17	1	1	0	3	213	282
TOT PCT	.0	.0	1.1	4.6	11.0	6.0	.4	.4	.0	1.1	75.5	100.0

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 >50YD	= OR >0
= OR >6500	1.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7
= OR >5000	1.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1
= OR >3500	1.7	2.4	2.4	2.4	2.4	2.4	2.4	2.4
= OR >2000	5.9	8.3	8.3	8.3	8.3	8.3	8.3	8.3
= OR >1000	14.5	18.0	18.7	18.7	19.0	19.0	19.0	19.0
= OR >600	18.3	22.1	23.2	23.2	23.5	23.5	23.5	23.5
= OR >300	18.7	23.2	24.2	24.2	24.6	24.6	24.6	24.6
= OR >150	18.7	23.2	24.2	24.2	24.6	24.6	24.6	24.6
= OR > 0	18.7	23.2	24.2	24.2	24.6	24.6	24.6	24.6
TOTAL	54	67	70	70	71	71	71	71

TOTAL NUMBER OF OBS: 289

PCT FREQ NH <5/8: 75.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
17.1	20.6	17.7	10.8	7.0	4.1	6.3	6.0	10.4	.0	316

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.6	.0	.1	.7	.2	.7	.5	.5	.0	.0	3.3	
	TOT %	.6	.0	.1	.8	.2	.7	.5	.5	.0	.0	3.4	
1<2	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.3	.3	.0	.1	.8	.3	.1	.1	.0	.0	2.0	
	TOT %	.3	.3	.0	.2	.9	.3	.1	.1	.0	.0	2.2	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.4	
	TOT %	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.4	
5<10	PCP	.8	.8	.7	2.8	1.5	.1	.1	*	.0	.0	6.9	
	NO PCP	8.3	6.9	7.4	11.3	6.4	.6	.8	2.9	.0	.4	45.1	
	TOT %	9.2	7.7	8.2	14.1	7.9	.7	1.0	3.0	.0	.4	52.0	
10+	PCP	.3	.1	.3	.1	.3	*	.0	.0	.0	.0	1.1	
	NO PCP	9.0	7.0	6.6	8.3	3.9	1.0	1.0	3.5	.0	.5	40.9	
	TOT %	9.3	7.1	6.9	8.4	4.2	1.1	1.0	3.5	.0	.5	42.0	
	TOT OBS												736
	TOT PCT	19.5	15.2	15.3	23.5	13.3	2.8	2.5	7.0	.0	1.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.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	
	4-10	.3	.0	.1	.3	.2	.2	.3	.3	.0		1.5	
	11-21	.3	.0	.0	.4	.0	.5	.1	.1	.0		1.4	
	22+	.1	.0	.0	.1	.0	.0	.0	.1	.0		.3	
	TOT %	.6	.0	.1	.8	.2	.7	.4	.4	.0	.0	3.1	
1<2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.3	
	4-10	.3	.3	.0	.1	.1	.3	.1	.1	.0		1.3	
	11-21	.0	.0	.0	.1	.3	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.1	.4	.0	.0	.0	.0		.5	
	TOT %	.3	.3	.0	.4	.9	.3	.1	.1	.0	.1	2.4	
2<5	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.0	.0	.0	.1	.0	.0	.0	.0		.3	
	11-21	.1	.0	.1	.0	.0	.0	.0	.1	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.3	.0	.1	.0	.0	.1	.0	.0	.6	
5<10	0-3	.8	1.3	.9	.8	.5	.2	.1	.1	.0	.4	5.0	
	4-10	2.8	3.7	4.4	4.0	2.4	.5	.4	1.9	.0		20.1	
	11-21	4.8	1.9	2.0	6.3	3.1	.1	.4	.9	.0		19.6	
	22+	.8	.3	.3	2.3	1.4	.0	.0	.0	.0		5.0	
	TOT %	9.2	7.2	7.7	13.3	7.4	.8	.9	2.9	.0	.4	49.7	
10+	0-3	.1	.4	.5	.0	.1	.3	.1	.0	.0	1.1	2.6	
	4-10	4.4	4.8	4.6	3.5	1.5	.7	.6	2.0	.0		22.0	
	11-21	4.4	2.1	1.7	3.6	1.8	.4	.4	2.3	.0		16.7	
	22+	.6	*	.0	1.0	1.1	.0	.0	*	.0		2.8	
	TOT %	9.5	7.3	6.8	8.1	4.6	1.4	1.1	4.3	.0	1.1	44.1	
	TOT OBS												796
	TOT PCT	19.6	14.8	14.7	22.5	13.2	3.2	2.6	7.8	.0	1.6	100.0	

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PERIOD: (PRIMARY) 1906-1972
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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
00&03	.0	.0	.0	4.0	13.3	5.3	.0	.0	.0	1.3	24.0	76.0	75
06&09	.0	.0	.0	5.1	10.3	5.1	.0	.0	.0	1.3	21.8	78.2	78
12&15	.0	.0	3.5	3.5	7.0	4.7	1.2	1.2	.0	2.3	23.3	76.7	86
18&21	.0	.0	.0	4.8	11.1	7.9	.0	.0	.0	1.6	25.4	74.6	63
TOT	0	0	3	13	31	17	1	1	0	5	71	231	302
PCT	.0	.0	1.0	4.3	10.3	5.6	.3	.3	.0	1.7	23.5	76.5	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
00&03	.0	5.1	1.9	.6	39.2	53.2	158
06&09	.0	2.6	3.0	.9	53.2	38.3	230
12&15	.0	2.1	1.1	.0	43.7	53.2	190
18&21	.0	3.3	2.9	.8	57.7	35.1	239
TOT	0	26	19	5	410	357	817
PCT	.0	3.2	2.3	.6	50.2	43.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.4	6.9	18.1	75.0	72
06&09	.0	.0	6.8	16.4	76.7	73
12&15	.0	3.7	7.4	17.3	75.3	81
18&21	.0	.0	4.8	20.6	74.6	63
TOT	0	4	19	52	218	289
PCT	.0	1.4	6.6	18.0	75.4	100.0

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
80/84	.0	.0	.0	.2	1.0	.8	.2	.0	11	2.3
75/79	.0	.0	1.4	2.1	4.1	10.6	8.1	2.9	141	29.2
70/74	.0	.0	.4	5.2	12.4	16.1	18.4	7.2	289	59.8
65/69	.0	.0	.0	.2	1.4	2.3	3.1	1.2	40	8.3
60/64	.0	.0	.0	.0	.0	.0	.2	.2	2	.4
TOTAL	0	0	9	37	92	144	145	56	483	100.0
PCT	.0	.0	1.9	7.7	19.0	29.8	30.0	11.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.7	.2	.4	.3	.2	.0	.0	.5	.0	.0
11.0	6.3	3.5	2.0	2.3	.7	.8	2.4	.0	.2
11.3	11.5	10.8	12.2	6.0	1.3	.8	4.9	.0	1.0
1.1	.7	.4	3.2	2.0	.5	.2	.3	.0	.0
.0	.0	.0	.2	.2	.1	.0	.0	.0	.0
24.1	18.7	15.1	17.9	10.6	2.5	1.8	8.0	.0	1.2

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	85	82	80	74	69	65	64	74.3	201
06&09	82	81	78	73	68	65	65	73.3	302
12&15	81	78	76	73	67	64	63	72.2	251
18&21	80	78	77	72	66	64	62	71.8	320
TOT	85	81	78	73	67	64	62	72.8	1074

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	18.4	30.6	26.5	17.3	7.1	71	98
06&09	.0	11.1	22.2	28.6	29.4	8.7	75	126
12&15	.0	3.8	16.5	34.6	33.8	11.3	78	133
18&21	.0	7.1	10.0	29.3	35.7	17.9	79	140
TOT	0	47	94	149	149	58	76	497

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) 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	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.2	.0	.0	1	.0	.2
9/10	.0	.0	.0	.0	.2	.3	.2	4	.0	.6
7/8	.0	.0	.0	.2	.5	.0	.0	4	.0	.6
6	.0	.0	.0	.3	.8	.3	.0	9	.0	1.4
5	.0	.0	.0	.5	.5	.2	.0	7	.0	1.1
4	.0	.0	.6	1.4	.8	.2	.0	19	.3	2.7
3	.0	.0	.6	2.7	2.2	.2	.0	36	.5	5.2
2	.0	.0	.9	5.4	1.6	.2	.0	51	.6	7.4
1	.2	.0	1.3	7.0	1.7	.0	.0	64	.8	9.3
0	.0	.2	4.4	9.5	.8	.0	.0	94	.3	14.6
-1	.0	.2	4.9	8.5	.3	.0	.0	88	.3	13.6
-2	.0	1.6	7.0	4.6	.0	.0	.0	83	.3	12.8
-3	.0	.6	6.0	3.5	.0	.0	.0	64	.0	10.1
-4	.0	1.3	3.5	1.4	.2	.0	.0	40	.2	6.2
-5	.3	1.4	3.3	.2	.0	.0	.0	33	.3	4.9
-6	.2	.8	2.1	.5	.0	.0	.0	22	.0	3.5
-7/-8	.2	.8	.6	.0	.0	.0	.0	10	.0	1.6
-9/-10	.0	.5	.0	.0	.0	.0	.0	3	.0	.5
TOTAL	5	46	223	288	61	8	1	632	23	609
PCT	.8	7.3	35.3	45.6	9.7	1.3	.2	100.0	3.6	96.4

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.0	.0	.0	.0	.7
1-2	.0	4.7	2.3	.0	.0	.0	7.0
3-4	.0	3.3	5.1	.3	.0	.0	8.7
5-6	.0	.4	4.4	.4	.0	.0	5.2
7	.0	.0	1.5	.0	.0	.0	1.5
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.3	8.8	13.7	.7	.0	.0	23.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.0	.0	.0	.0	1.3
1-2	.0	6.1	1.0	.0	.0	.0	7.1
3-4	.4	2.9	1.2	.0	.0	.0	4.5
5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.4	.0	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.4	.0	.0	.0	.4
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
TOT PCT	.9	10.2	4.4	.0	.0	.0	15.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.8	.0	.0	.0	.0	2.8
1-2	.4	7.2	1.4	.0	.0	.0	9.1
3-4	.0	1.0	1.6	.0	.0	.0	2.7
5-6	.0	.0	.8	.0	.0	.0	.8
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	11.0	4.3	.0	.0	.0	15.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.7	.0	.0	.0	.0	1.7
1-2	.0	2.8	1.3	.0	.0	.0	4.1
3-4	.0	3.0	3.1	.4	.0	.0	6.5
5-6	.0	.8	3.4	.2	.0	.0	4.4
7	.0	.0	1.3	1.3	.0	.0	2.7
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	8.3	9.2	2.4	.0	.0	19.9

PERIOD: (OVER-ALL) 1963-1972

AREA 0005 BRISBANE
26.85 153.5E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.4
1-2	.0	1.6	.3	.0	.0	.0	2.0	.0	.1	.5	.0	.0	.0	.6
3-4	.0	1.2	1.3	.4	.0	.0	3.0	.0	.0	.9	.0	.0	.0	.9
5-6	.0	.4	3.0	1.0	.0	.0	4.4	.0	.4	.2	.0	.0	.0	.6
7	.0	.0	.3	.7	.4	.0	1.4	.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	.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	.4	.0	.0	.0	.4	.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
TOT PCT	.0	3.7	5.3	2.2	.4	.0	11.6	.0	.9	1.6	.0	.0	.0	2.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
1-2	.4	.3	.0	.0	.0	.0	.7	.0	.2	.9	.0	.0	.0	1.1	
3-4	.0	.3	.0	.0	.0	.0	.3	.0	.6	1.9	.1	.0	.0	2.6	
5-6	.0	.0	.7	.0	.0	.0	.7	.0	.0	2.2	.0	.0	.0	2.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	1.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9	
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	
TOT PCT	.4	1.0	.7	.0	.0	.0	2.2	.0	.8	7.2	.1	.0	.0	8.1	99.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.2	6.9	.0	.0	.0	.0	10.1	
1-2	.8	22.7	7.7	.0	.0	.0	31.2	
3-4	.4	12.1	15.0	1.2	.0	.0	28.7	
5-6	.0	2.0	15.8	1.6	.0	.0	19.4	
7	.0	.4	4.9	2.0	.4	.0	7.7	
8-9	.0	.0	1.2	.4	.0	.0	1.6	
10-11	.0	.0	.4	.0	.0	.0	.4	
12	.0	.0	.4	.0	.0	.0	.4	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.4	.0	.0	.0	.4	
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	
								247
TOT PCT	4.5	44.1	45.7	5.3	.4	.0	100.0	

PERIOD: (OVER-ALL) 1949-1972

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	.7	10.5	15.0	8.4	4.2	1.7	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	118	4
6-7	.0	.3	8.0	14.6	5.6	2.1	3.1	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	99	6
8-9	.0	1.0	2.1	3.1	4.5	2.1	.3	.3	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	6
10-11	.0	1.4	1.0	1.4	1.0	.3	.7	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	6
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	13
>13	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
INDET	.3	.0	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
TOTAL	3	38	76	80	48	18	13	4	3	3	1	0	0	0	0	0	0	0	0	287	5
PCT	1.0	13.2	26.5	27.9	16.7	6.3	4.5	1.4	1.0	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1877-1971

AREA 0005 BRISBANE
26.8S 153.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	6.4	2.3	1.6	.0	.0	.0	.0	10.4	2.9	6.1	1.6	.0	5.5	.0	75.6
NE	2.1	2.5	.8	.0	.0	.0	.0	5.5	.2	1.3	.4	.0	1.5	.8	90.3
E	6.1	8.6	1.2	.0	.0	.0	.8	16.7	.6	1.6	.8	.0	.0	.0	81.1
SE	5.5	8.1	.4	.0	.0	.0	.0	13.9	3.9	.9	2.5	.0	.4	.0	78.5
S	6.6	9.2	.0	.0	.0	.0	.0	15.8	4.6	2.6	.0	.0	.7	.0	76.3
SW	6.0	16.0	.0	.0	.0	.0	4.0	26.0	1.0	3.0	8.0	.0	.0	.0	62.0
W	.0	15.8	.0	.0	.0	.0	.0	15.8	.0	.0	.0	.0	10.5	.0	73.7
NW	3.8	6.1	.0	.0	.0	.0	.0	9.9	.0	2.3	.0	.0	6.9	.0	82.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	14.3	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0	85.7
TOT PCT	5.1	6.6	.8	.0	.0	.0	.3	12.8	2.1	2.4	1.4	.0	2.0	.2	79.9
TOT OBS:	666														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.8	5.3	.0	.0	.0	.0	.0	7.0	2.6	.0	1.8	.0	2.6	.0	86.0
06&09	4.2	4.7	.9	.0	.0	.0	.5	10.3	.5	3.7	1.4	.0	2.8	.0	82.7
12&15	7.1	5.4	.6	.0	.0	.0	.6	13.7	2.4	4.2	.0	.0	1.2	.0	78.6
18&21	8.0	10.1	1.0	.0	.0	.0	.0	19.1	3.0	2.0	2.0	.0	1.0	.5	72.9
TOT PCT	5.6	6.5	.7	.0	.0	.0	.3	13.1	2.0	2.7	1.3	.0	1.9	.1	79.4
TOT OBS:	695														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.6	8.8	8.6	1.0	.0	.0		19.9	10.9	18.2	21.4	17.5	19.8	19.1	22.9	22.5	15.1
NE	1.9	11.8	4.3	.1	.0	.0		18.1	8.4	14.8	12.6	23.0	25.0	23.9	17.1	14.9	11.4
E	1.0	9.1	7.4	.6	.0	.0		18.1	10.4	23.3	11.7	17.4	19.8	22.5	17.5	18.5	16.8
SE	1.5	7.8	9.6	1.4	.0	.0		20.3	12.1	14.4	18.4	26.4	23.8	21.3	20.7	16.2	17.3
S	.8	3.5	5.1	1.3	.4	.0		11.0	14.1	15.7	19.4	10.7	7.3	7.9	8.0	9.2	14.9
SW	.7	1.7	.8	.3	.0	.0		3.5	8.9	3.8	6.3	2.0	.4	.6	3.4	4.5	7.4
W	.3	1.0	.2	.0	.0	.0		1.5	6.9	1.7	2.4	.6	.8	.0	.3	1.6	5.4
NW	.4	2.6	2.2	.1	.0	.0		5.3	10.2	8.1	3.9	1.2	1.6	2.5	5.8	9.4	9.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0	.0	3.9	1.1	1.6	2.2	4.1	3.0	2.0
TOT OBS	106	461	381	48	4	0	1000		10.5	59	103	177	124	89	146	201	101
TOT PCT	10.6	46.1	38.1	4.8	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.3	11.1	3.3	.3	.0		19.9	10.9	20.2	18.4	21.5	20.0
NE	7.1	9.9	1.2	.0	.0		18.1	8.4	13.4	23.8	19.7	13.7
E	5.2	10.2	2.7	.0	.0		18.1	10.4	15.9	18.4	19.4	18.0
SE	3.8	10.8	5.7	.1	.0		20.3	12.1	17.0	25.3	21.0	16.6
S	2.2	4.6	3.4	.7	.1		11.0	14.1	18.1	9.3	8.0	11.1
SW	1.8	1.1	.4	.1	.0		3.5	8.9	5.4	1.3	2.3	5.5
W	.8	.6	.1	.0	.0		1.5	6.9	2.2	.7	.2	2.9
NW	1.7	3.2	.4	*	.0		5.3	10.2	5.4	1.4	4.6	9.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.0	2.5	1.3	3.4	2.6
TOT OBS	301	515	171	12	1	1000		10.5	162	301	235	302
TOT PCT	30.1	51.5	17.1	1.2	.1		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1911-1971
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.5	10.5	47.5	31.5	8.0	.0	.0	10.6	100.0	162
06&09	1.3	6.0	44.9	42.5	4.3	1.0	.0	11.2	100.0	301
12&15	3.4	8.1	41.7	43.0	3.4	.4	.0	10.5	100.0	235
18&21	2.6	9.3	50.0	33.4	4.6	.0	.0	9.9	100.0	302
TOT	24	82	461	381	48	4	0	10.5		1000
PCT	2.4	8.2	46.1	38.1	4.8	.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.4	4.0	4.3	1.6		3.5
NE	8.1	5.4	4.1	1.6		3.6
E	8.1	6.0	4.1	2.5		3.7
SE	5.5	6.3	6.3	2.9		4.3
S	1.[illegible]	3.9	2.6	3.0		4.9
SW	.[illegible]	.5	.4	.5		4.1
W	.4	.4	.7	.0		4.2
NW	2.3	1.2	1.0	1.0		3.5
VAR	.0	.0	.0	.0		.0
CALM	.7	.0	.7	.0		3.5
TOT OBS	93	74	65	35	267	3.9
TOT PCT	34.8	27.7	24.3	13.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.4	.0	.3	2.3	.4	.4	.0	.0	.0	13.6	
NE	.0	.0	.0	.7	1.2	.4	.0	.0	.0	.0	16.9	
E	.0	.6	.4	1.8	.9	.0	.0	.0	.0	.4	16.7	
SE	.0	.2	.5	2.1	3.0	.4	.7	.0	.0	.0	14.1	
S	.0	.0	.3	.9	2.3	1.1	.0	.0	.0	.0	6.3	
SW	.0	.0	.0	.1	.4	.0	.0	.0	.0	.0	1.7	
W	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	1.1	
NW	.0	.0	.0	.5	1.0	.0	.0	.0	.0	.0	4.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.7	
TOT OBS	0	3	3	19	31	6	3	0	0	1	201	267
TOT PCT	.0	1.1	1.1	7.1	11.6	2.2	1.1	.0	.0	.4	75.3	100.0

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 >50YD	= OR >0
= OR >6500	.7	.7	.7	.7	.7	.7	.7	.7
= OR >5000	.7	.7	.7	.7	.7	.7	.7	.7
= OR >3500	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
= OR >2000	2.9	3.6	4.0	4.0	4.0	4.0	4.0	4.0
= OR >1000	10.1	14.4	14.8	14.8	14.8	14.8	15.2	15.2
= OR >600	15.2	21.3	21.7	21.7	21.7	21.7	22.0	22.0
= OR >300	15.9	23.1	23.5	23.5	23.5	23.5	23.8	23.8
= OR >150	15.9	23.1	24.5	24.5	24.5	24.5	24.9	24.9
= OR > 0	15.9	23.1	24.5	24.5	24.5	24.5	24.9	24.9
TOTAL	44	64	68	68	68	68	69	69

TOTAL NUMBER OF OBS: 277

PCT FREQ NH <5/8: 75.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.8	18.2	19.5	16.6	9.4	6.5	4.2	7.8	10.1	.0	308

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	
	NO PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.0	.0	.0	.2	.0	.0	.2	.0	.0	.5	
1/2<1	PCP	.0	.0	.2	.0	.1	.1	.0	.0	.0	.0	.3	
	NO PCP	.2	.1	.2	.5	.0	.2	.0	.0	.0	.0	1.1	
	TOT %	.2	.1	.3	.5	.1	.2	.0	.0	.0	.0	1.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.7	.1	.0	.1	.1	.2	.2	.0	.0	.0	1.2	
	TOT %	.7	.1	.0	.1	.1	.2	.2	.0	.0	.0	1.2	
2<5	PCP	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.6	
5<10	PCP	1.6	1.0	2.6	2.9	1.4	.9	.1	.3	.0	.0	10.7	
	NO PCP	8.6	7.2	6.8	9.5	5.3	1.7	.5	2.2	.0	.2	42.0	
	TOT %	10.2	8.2	9.3	12.4	6.8	2.6	.6	2.5	.0	.2	52.6	
10+	PCP	.4	.0	.3	*	.2	.0	.2	*	.0	.2	1.2	
	NO PCP	7.6	9.2	9.0	8.3	4.2	.8	.5	2.2	.0	.8	42.6	
	TOT %	8.0	9.2	9.3	8.3	4.4	.8	.7	2.3	.0	.9	43.8	
	TOT OBS												665
	TOT PCT	19.2	17.7	19.1	21.4	11.4	3.8	1.4	4.9	.0	1.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	TOT %	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.4	
1/2<1	0-3	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.3	
	4-10	.0	.1	.2	.1	.0	.0	.0	.0	.0		.4	
	11-21	.1	.0	.0	.1	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.1	.1	.1	.1	.0	.0	.0		.3	
	TOT %	.1	.1	.3	.5	.1	.2	.0	.0	.0	.0	1.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.1	.0	.0	.1	.2	.0	.0	.0		.7	
	11-21	.3	.0	.0	.1	.2	.0	.1	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.6	.1	.0	.1	.3	.2	.1	.0	.0	.0	1.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	11-21	.2	.2	.2	.2	.0	.0	.0	.0	.0		.8	
	22+	.0	.0	.0	.0	.4	.0	.0	.0	.0		.4	
	TOT %	.2	.2	.2	.5	.4	.0	.0	.0	.0	.0	1.5	
5<10	0-3	.8	1.4	.8	1.0	.5	.6	.3	.3	.0	.7	6.3	
	4-10	5.2	4.1	3.4	3.8	1.8	.8	.2	1.2	.0		20.5	
	11-21	3.0	2.2	4.1	5.6	3.2	.7	.1	.9	.0		19.8	
	22+	.5	.0	.2	1.0	.9	.2	.0	.1	.0		2.9	
	TOT %	9.6	7.7	8.5	11.4	6.4	2.4	.5	2.4	.0	.7	49.5	
10+	0-3	.4	.5	.1	.3	.2	.0	.0	.1	.0	1.1	2.6	
	4-10	3.3	6.6	5.3	3.6	1.4	.6	.6	1.3	.0		22.7	
	11-21	4.3	2.4	3.6	4.8	2.5	.3	.0	1.2	.0		19.1	
	22+	.5	.0	.1	.2	.6	.1	.0	*	.0		1.6	
	TOT %	8.5	9.5	9.1	8.8	4.6	1.1	.6	2.6	.0	1.1	46.0	
	TOT OBS												732
	TOT PCT	19.2	17.5	18.1	21.2	12.0	3.9	1.3	5.1	.0	1.8	100.0	

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PERIOD: (PRIMARY) 1911-1971
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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
00&03	.0	3.3	.0	5.0	8.3	1.7	1.7	.0	.0	.0	20.0	80.0	60
06&09	.0	.0	1.4	4.1	13.5	1.4	2.7	.0	.0	1.4	24.3	75.7	74
12&15	.0	1.3	1.3	10.1	3.8	2.5	.0	.0	.0	.0	19.0	81.0	79
18&21	.0	.0	3.9	6.6	17.1	2.6	.0	.0	.0	1.3	31.6	68.4	76
TOT	0	3	5	19	31	6	3	0	0	2	69	220	289
PCT	.0	1.0	1.7	6.6	10.7	2.1	1.0	.0	.0	.7	23.9	76.1	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
00&03	.0	1.6	1.6	1.6	41.5	53.7	123
06&09	.9	.9	.9	.9	56.5	40.1	232
12&15	.0	.6	1.1	1.7	45.3	51.4	181
18&21	.4	2.2	1.8	1.8	50.2	43.6	225
TOT	3	10	10	11	377	350	761
PCT	.4	1.3	1.3	1.4	49.5	46.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.3	8.3	11.7	80.0	60
06&09	.0	4.1	8.1	17.6	74.3	74
12&15	.0	2.8	14.1	7.0	78.9	71
18&21	.0	4.2	12.5	20.8	66.7	72
TOT	0	10	30	40	207	277
PCT	.0	3.6	10.8	14.4	74.7	100.0

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
85/89	.0	.0	.0	.2	.2	.0	.0	.0	2	.4
80/84	.0	.2	.0	.2	.6	2.7	2.1	.6	31	6.4
75/79	.0	.0	.2	1.2	7.9	18.8	12.4	9.9	244	50.4
70/74	.0	.0	.0	2.1	10.1	9.7	11.8	6.0	192	39.7
65/69	.0	.0	.0	.0	.6	.2	1.0	1.2	15	3.1
TOTAL	0	1	1	18	94	152	132	86	484	100.0
PCT	.0	.2	.2	3.7	19.4	31.4	27.3	17.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
2.6	1.5	.3	.7	.2	.2	.2	.8	.0	.0
14.6	11.6	7.9	7.2	3.8	1.0	.1	3.2	.0	1.0
3.0	5.5	10.7	10.4	5.9	1.1	1.1	1.5	.0	.4
.0	.0	.5	1.3	.8	.3	.0	.2	.0	.0
20.4	18.6	19.6	19.6	10.6	2.6	1.4	5.7	.0	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	88	85	83	77	71	70	69	77.0	163
06&09	88	86	82	76	70	67	65	76.2	306
12&15	81	79	78	75	70	66	65	74.4	237
18&21	82	81	78	74	69	67	67	74.3	312
TOT	88	83	81	75	70	67	65	75.3	1018

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	11.4	22.8	34.2	20.3	11.4	74	79
06&09	.0	4.1	21.2	34.9	27.4	12.3	77	146
12&15	.0	2.2	19.4	30.6	27.6	20.1	79	134
18&21	.0	2.1	14.3	26.4	30.7	26.4	81	140
TOT	0	21	95	156	136	91	78	499

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.2	1	.2	.0
9/10	.0	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.0	.2	.7	.4	7	.0	1.2
6	.0	.2	.7	.2	.4	.0	8	.0	1.4
5	.0	.0	.0	.9	1.4	.0	13	.0	2.3
4	.0	.0	1.2	2.1	1.1	.0	25	.0	4.4
3	.0	.2	.7	3.9	1.1	.0	33	.2	5.6
2	.0	.4	1.6	4.8	.4	.0	40	.4	6.7
1	.0	.4	5.1	5.5	.5	.0	65	.4	11.1
0	.2	1.6	8.5	4.8	.0	.0	85	.0	15.0
-1	.2	1.1	11.8	3.0	.0	.0	91	.0	16.0
-2	.0	1.4	9.7	1.4	.0	.0	71	.0	12.5
-3	.2	2.3	7.2	.7	.0	.0	59	.4	10.0
-4	.0	1.8	2.5	.2	.0	.0	25	.0	4.4
-5	.0	1.8	1.4	.2	.0	.0	19	.2	3.2
-6	.2	1.9	.2	.0	.0	.0	13	.0	2.3
-7/-8	.2	.7	.7	.0	.0	.0	9	.0	1.6
-9/-10	.0	.4	.2	.0	.0	.0	3	.0	.5
TOTAL	5	79	292	157	31	4	568	9	559
PCT	.9	13.9	51.4	27.6	5.5	.7	100.0	1.6	98.4

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.0	.0	.0	.0	.0	.5
1-2	.0	4.3	1.8	.0	.0	.0	6.1
3-4	.0	2.1	6.5	.5	.0	.0	9.2
5-6	.0	.0	4.4	.0	.0	.0	4.4
7	.0	.0	.4	.5	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.5	6.4	13.1	1.0	.0	.0	21.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.5	8.2	3.0	.0	.0	.0	11.7
3-4	.0	.6	2.3	.0	.0	.0	2.9
5-6	.0	.5	.2	.0	.0	.0	.7
7	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.5	9.9	6.5	.0	.0	.0	16.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	3.1	.0	.0	.0	.0	3.5
1-2	.0	5.4	1.8	.0	.0	.0	7.1
3-4	.0	2.3	3.9	.0	.0	.0	6.2
5-6	.0	.0	1.4	.0	.0	.0	1.4
7	.0	.0	.4	.5	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	10.7	7.5	.5	.0	.0	19.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.4
1-2	.1	3.1	.6	.0	.0	.0	3.8
3-4	.0	3.0	6.5	.0	.0	.0	9.5
5-6	.0	1.0	2.5	.0	.0	.0	3.5
7	.0	.0	2.7	.5	.0	.0	3.2
8-9	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.5	.0	.0	.0	.5
12	.0	.0	.5	.0	.0	.0	.5
13-16	.0	.0	.0	.5	.0	.0	.5
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
TOT PCT	.2	7.3	13.3	1.4	.0	.0	22.3

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
1-2	.4	2.1	.8	.0	.0	.0	3.3	.0	.6	.1	.0	.0	.0	.7
3-4	.0	1.0	1.2	.5	.0	.0	2.6	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.0	1.3	.0	.5	.0	1.8	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.4	.0	.0	.0	.4	.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	.5	.0	.5	.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
TOT PCT	.4	3.5	5.8	.5	1.0	.0	11.1	.0	1.1	.7	.0	.0	.0	1.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.5	.5	.0	.0	.0	.0	1.0	.0	1.5	.0	.0	.0	.0	1.5	
3-4	.0	1.0	.0	.0	.0	.0	1.0	.0	.6	1.4	.0	.0	.0	2.0	
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	
TOT PCT	.5	1.4	.0	.0	.0	.0	1.9	.0	2.1	1.5	.0	.0	.0	3.7	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.1	4.1	.0	.0	.0	.0	9.2	
1-2	1.4	25.3	7.8	.0	.0	.0	34.6	
3-4	.5	10.6	21.2	.9	.0	.0	33.2	
5-6	.0	1.8	10.1	.0	.5	.0	12.4	
7	.0	.0	6.5	1.4	.0	.0	7.8	
8-9	.0	.0	.5	.5	.0	.0	.9	
10-11	.0	.0	.5	.0	.0	.0	.5	
12	.0	.0	.5	.0	.0	.0	.5	
13-16	.0	.0	.0	.5	.0	.0	.5	
17-19	.0	.0	.0	.0	.5	.0	.5	
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	
TOT PCT	6.9	41.9	47.0	3.2	.9	.0	100.0	217

PERIOD: (OVER-ALL) 1949-1971

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	.0	12.1	8.5	7.7	4.0	1.5	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	94	4
6-7	.0	.4	8.1	12.1	6.6	2.2	.7	.0	1.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	86	6
8-9	.0	.4	1.8	4.4	6.6	3.7	.4	.7	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	7
10-11	.0	.4	.0	.7	.4	1.5	.4	1.5	.0	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	16	10
12-13	.0	.0	.4	.0	.4	.7	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	9
>13	.0	.0	.0	.0	.4	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
INDET	.4	.7	1.8	1.1	.7	.0	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	5
TOTAL	1	38	56	71	52	27	7	8	7	2	2	1	0	0	0	0	0	0	0	272	6
PCT	.4	14.0	20.6	26.1	19.1	9.9	2.6	2.9	2.6	.7	.7	.4	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1857-1973

AREA 0005 BRISBANE
26.8S 153.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.2	3.3	.9	.0	.0	.0	.0	9.4	1.2	3.4	1.2	.0	2.1	.1	83.2
NE	4.4	5.2	1.0	.0	.0	.0	.0	10.6	2.1	1.6	1.2	.0	1.3	.1	83.4
E	6.7	8.4	1.8	.0	.0	.0	.2	17.1	1.7	1.7	.7	.0	.5	.0	78.8
SE	5.0	10.8	.7	.0	.0	.0	.0	16.6	2.8	1.2	1.0	.0	.8	*	78.2
S	4.9	8.0	1.0	.0	.0	.0	.0	13.8	2.5	1.7	.9	.0	2.2	.0	78.9
SW	4.8	6.3	.5	.0	.0	.0	.3	11.9	1.8	2.6	3.4	.4	2.5	.0	77.9
W	2.7	2.8	.4	.0	.0	.0	.0	5.9	1.4	6.9	1.6	.0	2.3	.1	82.2
NW	2.9	2.5	.5	.0	.0	.0	.0	5.9	.1	3.7	1.3	.0	2.2	.0	87.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6	2.0	.0	.0	.0	.0	.0	4.6	.0	4.9	.4	.0	2.7	.0	88.8
TOT PCT	4.5	6.3	.8	.0	.0	.0	*	11.7	1.8	2.1	1.1	*	1.6	*	82.2
TOT OBS:	8979														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.3	5.4	.9	.0	.0	.0	.0	9.4	2.7	.1	1.2	.0	2.0	.1	84.5
06&09	4.1	6.4	.8	.0	.0	.0	.1	11.4	1.2	1.3	1.0	*	1.9	*	83.6
12&15	5.1	5.7	.9	.0	.0	.0	*	11.7	1.9	4.0	.7	.0	1.0	.0	81.3
18&21	5.4	7.2	.9	.0	.0	.0	.0	13.5	1.4	2.6	1.3	.0	1.4	*	80.2
TOT PCT	4.5	6.3	.9	.0	.0	.0	*	11.7	1.7	2.1	1.1	*	1.6	*	82.3
TOT OBS:	9299														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	6.4	4.9	.6	*	.0		13.1	9.9	11.0	13.5	13.8	15.3	14.3	14.3	12.2	10.0
NE	1.1	6.6	2.6	.3	*	*		10.7	8.9	7.6	8.7	12.6	14.8	12.1	11.8	8.9	8.1
E	1.0	7.8	5.2	.9	.2	*		15.2	11.3	14.8	13.5	15.2	17.1	19.6	15.9	14.5	12.3
SE	1.0	7.4	9.6	2.7	.4	.1		21.3	13.7	19.9	18.5	23.0	23.3	20.9	21.7	20.4	18.6
S	.7	5.4	6.6	2.2	.5	.1		15.5	14.4	19.7	18.1	17.5	13.4	15.1	12.0	14.0	16.8
SW	.7	3.6	3.6	.7	.1	*		8.7	12.5	11.2	10.4	5.5	4.6	5.5	7.6	10.7	14.7
W	.6	2.8	1.8	.4	*	.0		5.5	10.2	6.1	5.6	3.8	4.1	4.8	5.9	6.6	7.3
NW	.6	4.2	2.6	.3	*	.0		7.7	9.9	8.7	8.3	5.0	4.8	4.9	8.6	9.7	10.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0	1.1	3.5	1.5	2.7	2.7	2.2	3.0	1.6
TOT OBS							13785		11.6	1043	1593	2185	1633	1162	1906	2814	1449
TOT PCT	9.2	44.1	36.9	8.1	1.4	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.7	7.2	2.0	.2	.0		13.1	9.9	12.5	14.4	14.2	11.5
NE	4.3	5.5	.9	*	*		10.7	8.9	8.1	13.6	11.9	8.6
E	4.2	8.1	2.3	.4	.1		15.2	11.3	14.0	16.0	17.2	13.8
SE	3.5	10.6	6.0	1.0	.2		21.3	13.7	19.2	24.2	21.3	19.8
S	2.5	7.6	4.0	1.2	.2		15.3	14.4	18.7	15.8	13.2	15.0
SW	2.2	4.2	1.9	.3	.1		8.7	12.5	10.7	5.1	6.9	12.1
W	1.8	2.8	.8	.1	*		5.5	10.2	5.8	3.9	5.5	6.8
NW	2.5	4.2	.9	.1	.0		7.7	9.9	8.4	4.9	7.3	10.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.0	2.6	2.0	2.4	2.5
TOT OBS						13785		11.6	2636	3818	3068	4263
TOT PCT	27.0	50.2	18.9	3.4	.5		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1857-1973

AREA 0005 BRISBANE
26.8S 153.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	2.6	7.8	40.7	38.4	8.9	1.6	.2	11.9	100.0	2636
06&09	2.0	6.6	44.3	36.8	8.1	1.8	.3	11.8	100.0	3818
12&15	2.4	5.9	46.0	36.2	8.3	1.0	.3	11.6	100.0	3068
18&21	2.5	7.2	44.8	36.5	7.4	1.2	.4	11.4	100.0	4263
TOT								11.6		13785
PCT	2.4	6.9	44.1	36.9	8.1	1.4	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.2	2.4	2.5	1.4		3.3
NE	3.8	2.2	2.7	1.3		4.0
E	4.8	3.6	4.2	3.6		4.6
SE	6.1	6.0	6.1	3.5		4.2
S	5.6	4.4	4.4	3.0		4.1
SW	4.2	1.6	1.8	.9		3.7
W	3.4	.5	.9	.4		2.9
NW	3.1	1.1	1.2	.7		3.2
VAR	.0	.0	.0	.0		.0
CALM	1.5	.3	.3	.1		2.3
TOT OBS					3872	3.8
TOT PCT	38.9	22.0	24.1	15.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	*	.1	.4	1.1	.5	.2	.0	.1	.1	10.0	
NE	*	*	.1	.6	1.0	.5	.1	.1	*	.1	7.6	
E	.1	.1	.4	1.9	2.1	.7	.2	.1	*	.1	10.6	
SE	.1	*	.2	1.9	3.2	1.3	.3	*	*	.1	14.5	
S	.1	.0	.3	1.6	2.3	1.0	.2	.1	*	.1	11.6	
SW	*	.0	.1	.5	.7	.4	.1	*	*	.1	6.5	
W	.0	.0	.0	.2	.2	.2	.1	.0	*	.3	4.4	
NW	.0	*	.1	.2	.4	.2	.1	.0	*	.1	5.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.1	.1	.0	.0	.0	*	2.0	
TOT OBS												3872
TOT PCT	.3	.2	1.2	7.4	11.2	4.8	1.4	.2	.2	.8	72.2	100.0

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 >500YD	* OR >0
* OR >6500	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >5000	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >3500	2.4	2.7	2.7	2.7	2.7	2.7	2.7	2.7
* OR >2000	6.5	7.5	7.6	7.6	7.6	7.6	7.6	7.6
* OR >1000	14.9	18.0	18.5	18.6	18.6	18.6	18.7	18.7
* OR >600	19.5	24.3	25.4	25.8	25.9	26.0	26.0	26.0
* OR >300	19.8	25.1	26.4	26.9	27.1	27.2	27.3	27.3
* OR >150	19.8	25.1	26.6	27.1	27.3	27.4	27.4	27.4
* OR > 0	19.9	25.3	26.8	27.3	27.5	27.6	27.7	27.7

TOTAL NUMBER OF OBS: 3938 PCT FREQ NH <5/8: 72.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.1	18.2	16.2	13.3	9.4	5.9	6.3	6.1	10.3	.1	4312

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PERIOD: (PRIMARY) 1906-1973
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	*	.1	*	.0	*	.0	.0	.1	
	NO PCP	*	*	*	*	*	.0	.0	.0	.0	*	.1	
	TOT %	*	*	*	*	.1	*	.0	*	.0	*	.2	
1/2<1	PCP	*	*	.1	.1	.1	*	.0	*	.0	*	.3	
	NO PCP	.2	.1	.1	.3	.1	.1	.1	.1	.0	.0	1.0	
	TOT %	.2	.1	.2	.3	.2	.1	.1	.1	.0	*	1.3	
1<2	PCP	.0	*	.1	.1	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.2	.1	.1	.1	.2	.1	.1	.1	.0	*	1.1	
	TOT %	.2	.2	.2	.2	.3	.1	.1	.1	.0	*	1.3	
2<5	PCP	*	*	.2	.1	.1	*	.0	*	.0	*	.6	
	NO PCP	*	*	.1	.1	*	.0	*	*	.0	.0	.3	
	TOT %	.1	.1	.2	.2	.2	*	*	*	.0	*	.8	
5<10	PCP	.8	.7	1.8	2.7	1.5	.5	.2	.3	.0	*	8.6	
	NO PCP	5.7	4.3	5.5	8.3	6.5	3.5	2.7	3.6	.0	.6	40.7	
	TOT %	6.5	5.0	7.3	10.9	8.0	4.0	3.0	3.9	.0	.6	49.3	
10+	PCP	.2	.1	.4	.5	.4	.1	*	*	.0	*	1.8	
	NO PCP	5.6	4.6	7.2	9.5	7.3	4.1	2.6	3.0	.0	1.1	45.2	
	TOT %	5.8	4.7	7.6	10.1	7.8	4.2	2.6	3.1	.0	1.1	47.0	
	TOT OBS												8977
	TOT PCT	12.8	10.0	15.5	21.8	16.6	8.4	5.7	7.3	.0	1.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	*	*	
	4-10	*	*	*	.0	.0	.0	.0	*	.0		*	
	11-21	*	*	*	*	*	*	*	.0	.0		.1	
	22+	.0	.0	*	*	.1	.0	.0	.0	.0		.1	
	TOT %	*	*	*	*	.1	*	*	*	.0	*	.2	
1/2<1	0-3	.0	.0	*	*	.0	*	.0	*	.0	*	.1	
	4-10	.1	.1	.1	*	*	*	*	*	.0		.4	
	11-21	.1	*	*	.2	*	*	*	*	.0		.4	
	22+	.1	*	*	.1	.1	*	.0	*	.0		.3	
	TOT %	.2	.1	.1	.3	.2	.1	*	.1	.0	*	1.2	
1<2	0-3	.0	*	.0	*	*	*	*	*	.0	*	.1	
	4-10	.1	.1	*	*	.1	.1	*	.1	.0		.5	
	11-21	.1	*	*	.1	.1	*	*	*	.0		.4	
	22+	*	*	.1	*	.1	.0	*	.0	.0		.3	
	TOT %	.2	.1	.2	.2	.3	.1	.1	.1	.0	*	1.3	
2<5	0-3	.0	.0	*	.0	.0	*	.0	*	.0	*	*	
	4-10	*	*	*	.1	.1	*	*	*	.0		.2	
	11-21	*	.1	.1	.1	.1	*	.0	*	.0		.5	
	22+	*	*	.1	.1	.2	*	.0	*	.0		.5	
	TOT %	.1	.1	.3	.3	.3	*	*	.1	.0	*	1.2	
5<10	0-3	.7	.7	.5	.6	.4	.3	.4	.3	.0	.7	4.5	
	4-10	2.9	2.7	3.2	3.2	2.6	1.5	1.2	2.0	.0		19.3	
	11-21	2.2	1.3	2.7	4.7	3.1	1.5	1.0	1.2	.0		17.8	
	22+	.3	.1	.6	1.8	1.4	.4	.1	.2	.0		4.9	
	TOT %	6.1	4.8	7.0	10.3	7.5	3.7	2.7	3.6	.0	.7	46.4	
10+	0-3	.5	.3	.5	.4	.3	.3	.3	.2	.0	1.3	4.1	
	4-10	3.1	3.3	4.3	3.8	2.7	1.9	1.5	1.9	.0		22.5	
	11-21	2.6	1.3	2.6	5.0	3.5	1.9	.8	1.4	.0		19.1	
	22+	.2	*	.3	1.5	1.3	.5	.2	.1	.0		4.0	
	TOT %	6.3	5.0	7.7	10.6	7.8	4.6	2.8	3.6	.0	1.3	49.6	
	TOT OBS												9975
	TOT PCT	13.0	10.1	15.4	21.8	16.1	8.5	5.7	7.5	.0	2.1	100.0	

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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
00&03	.5	.3	1.0	7.0	10.5	4.8	1.3	.0	.1	.8	26.3	73.7	1054
06&09	.3	.1	1.2	6.2	11.5	4.4	1.3	.4	.3	1.2	26.9	73.1	961
12&15	.2	.1	1.4	6.8	8.3	5.1	1.7	.3	.1	.5	24.5	75.5	1114
18&21	.2	.2	1.2	7.7	11.8	4.3	.9	.1	.3	1.0	27.6	72.4	1035
TOT													4164
PCT	.3	.2	1.2	6.9	10.5	4.7	1.3	.2	.2	.9	26.3	73.7	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
00&03	.1	1.5	1.3	1.1	38.2	57.9	1936
06&09	.4	1.3	1.6	1.0	53.0	42.7	2846
12&15	.1	.8	1.2	1.3	40.0	56.6	2371
18&21	.2	1.4	1.2	1.3	52.2	43.7	3143
TOT							10296
PCT	.2	1.2	1.3	1.2	47.0	49.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.5	2.1	9.9	17.9	72.2	1001
06&09	.3	2.1	9.5	18.9	71.7	919
12&15	.2	1.8	9.7	16.2	74.2	1052
18&21	.2	2.0	10.6	19.1	70.3	966
TOT						3938
PCT	.3	2.0	9.9	18.0	72.1	100.0

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
85/89	.0	.0	*	*	.1	*	*	*		.2
80/84	.0	*	.0	.2	.8	1.5	.9	.3		3.7
75/79	.0	*	.3	1.2	4.7	11.0	6.9	3.5		27.6
70/74	.0	.1	.6	2.3	7.2	9.2	8.7	4.3		32.4
65/69	.0	.1	1.0	2.9	5.3	6.0	6.2	4.1		25.5
60/64	.0	.1	.6	.9	1.9	1.9	1.7	1.3		8.4
55/59	.0	*	.2	.3	.4	.3	.3	.2		1.6
50/54	.0	.0	.0	*	.1	.1	.1	*		.4
45/49	.0	.0	*	.0	.0	*	*	.1		.1
TOTAL									6568	100.0
PCT	.0	.3	2.6	7.8	20.5	29.9	25.0	13.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.1	*	*	*	*	.0	.0	*	.0	.0
	1.1	.6	.7	.6	.3	.1	.1	.4	.0	*
	4.9	4.6	5.9	6.0	2.9	.7	.4	1.7	.0	.4
	4.5	3.7	5.6	7.8	4.9	1.8	1.3	2.3	.0	.5
	2.6	1.5	3.2	4.7	5.2	3.1	2.1	2.3	.0	.8
	.3	.2	.3	.9	2.5	2.2	1.2	.6	.0	.3
	*	.0	.0	*	.3	.6	.5	.1	.0	.1
	.0	.0	.0	.0	*	.1	.1	*	.0	.1
	.0	.0	.0	.0	*	.1	.0	.0	.0	*
	13.5	10.6	15.7	20.1	16.2	8.6	5.7	7.3	.0	2.2

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	88	81	78	73	67	63	54	72.2	2593
06&09	89	80	77	72	67	64	55	71.8	3807
12&15	89	76	75	71	66	62	52	70.5	3100
18&21	87	77	75	70	64	61	45	69.9	4307
TOT	89	79	76	71	65	61	45	71.0	13807

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	14.5	24.3	31.5	20.4	9.3	73	1310
06&09	.0	12.6	22.1	29.8	23.8	11.7	74	1744
12&15	.0	8.7	19.3	31.3	26.3	14.4	76	1673
18&21	.0	8.2	16.9	27.6	28.0	19.2	77	2052
TOT	0	737	1382	2014	1688	958	75	6779

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	1	.0	*
11/13	.0	.0	.0	.0	*	*	*	*	*	*	.0	9	*	.1
9/10	.0	.0	.0	.0	.0	*	*	.1	.1	*	.0	22	*	.3
7/8	.0	.0	.0	*	.1	*	.2	.2	.1	.1	*	55	.0	.7
6	.0	.0	.0	.0	.1	.1	.3	.2	.2	*	.0	71	.0	.9
5	.0	.0	.0	*	.1	.2	.3	.4	.3	*	.0	97	.0	1.3
4	.0	.0	.0	*	.1	.5	.7	.6	.2	*	.0	170	*	2.2
3	.0	.0	.0	*	.4	.7	1.1	1.0	.4	*	.0	272	.1	3.5
2	.0	.0	*	.2	.5	1.2	1.5	1.5	.4	.0	.0	401	.2	5.1
1	.0	*	*	.2	1.0	2.2	2.4	2.9	.3	*	.0	678	.2	8.8
0	.0	.0	.1	.2	1.5	3.0	4.0	2.8	.1	.0	.0	885	.2	11.5
-1	.0	.0	.1	.4	1.9	3.4	5.2	2.4	.1	.0	.0	1020	.1	13.2
-2	*	.0	.1	.5	3.0	3.2	4.8	1.6	*	.0	.0	1016	.1	13.1
-3	.0	*	.1	.8	3.1	2.8	3.7	.6	.0	.0	.0	865	.1	11.0
-4	.0	.1	.1	1.0	2.7	2.5	1.8	.4	*	.0	.0	683	.1	8.5
-5	.0	*	.2	.9	2.2	1.7	1.2	.2	.0	.0	.0	507	.1	6.4
-6	.0	*	.2	1.1	1.4	1.1	.6	.1	.0	.0	.0	354	.0	4.5
-7/-8	*	*	.5	1.5	1.6	.8	.3	.1	.0	.0	.0	384	*	4.8
-9/-10	*	.1	.7	.7	.3	.1	.1	.0	.0	.0	.0	157	.0	1.9
-11/-13	*	.2	.3	.1	.1	*	.0	.0	.0	.0	.0	61	.0	.8
-14/-16	*	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	14	.0	.2
-17/-19	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	.1
TOTAL												7728		
PCT	.1	.5	2.2	7.6	20.0	23.6	28.4	15.1	2.2	.2	*	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	.0	.0	.0	.0	1.3
1-2	.1	3.1	1.0	.0	.0	.0	4.2
3-4	.1	1.3	2.4	.1	.0	.0	3.8
5-6	.0	.1	2.0	.2	.0	.0	2.4
7	.0	*	.6	.1	.0	.0	.7
8-9	.0	.0	.1	*	.0	.0	.1
10-11	.0	.0	*	*	.0	.0	.1
12	.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
TOT PCT	.5	5.5	6.0	.5	*	.0	12.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.9	.1	.0	.0	.0	1.2
1-2	.2	3.4	.8	.0	.0	.0	4.3
3-4	*	1.9	1.3	.0	.0	.0	3.2
5-6	.0	.1	.6	*	.0	.0	.7
7	.0	.1	.2	*	.0	.0	.4
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	*	.0	.0	.0	*
12	.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	*	*
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
TOT PCT	.4	6.3	3.1	.1	.0	*	9.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.5	*	.0	.0	.0	1.9
1-2	.2	3.8	.8	.0	.0	.0	4.8
3-4	.1	2.7	2.5	.3	.0	.0	5.5
5-6	.0	.3	1.9	.1	.0	.0	2.4
7	.0	.1	.7	.1	.1	.0	.9
8-9	.0	.0	.2	.2	*	.0	.4
10-11	.0	.0	*	.1	.0	.0	.2
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	*	.1	.0	.0	.1
17-19	.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	*	*	*
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
TOT PCT	.6	8.3	6.2	1.0	.1	*	16.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.2	.1	.0	.0	.0	1.5
1-2	.1	3.2	1.2	.0	.0	.0	4.5
3-4	.1	1.7	4.3	.3	.0	.0	6.4
5-6	.0	.6	3.9	.8	.1	.0	5.4
7	*	.1	1.5	.8	.1	.0	2.5
8-9	.0	.0	.4	.5	.1	.0	.9
10-11	.0	*	*	.4	.2	*	.7
12	.0	*	*	.2	*	.0	.3
13-16	.0	.0	*	.2	.1	.0	.3
17-19	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	*	*	.0	*
23-25	.0	.0	.0	.0	*	.0	*
26-32	.0	.0	.0	*	*	*	.1
33-40	.0	.0	.0	.0	*	*	*
41-48	.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
TOT PCT	.3	6.9	11.5	3.3	.6	*	22.7

PERIOD: (OVER-ALL) 1963-1973

ANNUAL

TABLE 18 (CONT)

AREA 0005 BRISBANE
26.8S 153.5E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.1	*	.0	.0	.0	1.3	.2	.6	.1	.0	.0	.0	.8
1-2	.1	2.9	1.0	.0	.0	.0	3.9	.1	1.5	.6	.0	.0	.0	2.2
3-4	*	1.5	2.9	.4	.0	.0	4.9	.0	.8	1.8	.1	.0	.0	2.7
5-6	*	.1	2.6	.5	.1	.0	3.4	.0	.2	1.0	.2	.0	.0	1.4
7	*	.0	.9	.7	.2	.0	1.8	.0	*	.3	.5	*	.0	.9
8-9	.0	*	.3	.6	.1	.0	1.0	.0	.0	.1	.1	.1	.0	.3
10-11	.0	.0	.0	.2	.1	*	.4	.0	.0	*	.1	*	.0	.1
12	.0	.0	*	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	*	.3	.1	.0	.4	.0	.0	.0	*	*	.0	.1
17-19	.0	.0	.0	*	*	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	*	*	*	.0	.1	.0	.0	.0	.0	*	.0	*
23-25	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	*	*	*	.1	.0	.0	.0	.0	.0	.0	.0
33-40	.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	.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
TOT PCT	.3	5.6	7.8	2.9	.7	.1	17.5	.3	3.1	3.8	1.1	.2	.0	8.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	.5	.0	.0	.0	.0	.7	*	.7	.0	.0	.0	.0	.7	
1-2	.1	1.4	.3	.0	.0	.0	1.8	.1	1.4	.4	.0	.0	.0	2.0	
3-4	.0	.6	.5	.1	.0	.0	1.2	.0	.5	1.3	.1	.0	.0	1.9	
5-6	.0	.1	.5	.1	.0	.0	.7	.0	*	.6	*	.0	.0	.6	
7	.0	.0	.1	.2	.0	.0	.3	.0	.0	.2	*	.0	.0	.3	
8-9	.0	.0	.0	*	.0	.0	*	.0	.0	.1	*	.0	.0	.1	
10-11	.0	.0	.0	.1	.0	.0	.1	.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	
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	
TOT PCT	.3	2.6	1.5	.5	.0	.0	4.9	.2	2.7	2.6	.2	.0	.0	5.6	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.4	7.6	.3	.0	.0	.0	12.3	
1-2	1.1	20.5	6.0	.0	.0	.0	27.6	
3-4	.3	10.8	16.8	1.3	.0	.0	29.2	
5-6	.1	1.6	13.0	2.0	.2	.0	16.9	
7	.1	.3	4.5	2.5	.4	.0	7.7	
8-9	.0	*	1.1	1.5	.3	.0	2.9	
10-11	.0	*	.2	1.0	.3	*	1.6	
12	.0	*	.1	.3	.1	.0	.5	
13-16	.0	.0	.1	.6	.2	.0	.8	
17-19	.0	.0	.0	.1	*	.0	.1	
20-22	.0	.0	*	*	.1	.0	.1	
23-25	.0	.0	.0	.0	*	.0	*	
26-32	.0	.0	.0	.1	.1	.1	.3	
33-40	.0	.0	.0	.0	*	*	.1	
41-48	.0	.0	.0	.0	.0	.1	.1	
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	
								3277
TOT PCT	6.0	40.8	42.0	9.3	1.7	.2	100.0	

PERIOD: (OVER-ALL) 1949-1972

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	1.6	9.0	12.3	7.2	2.9	1.0	.5	.1	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	1339	4
6-7	*	1.4	7.6	11.2	6.0	2.4	1.4	.4	.8	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	1228	6
8-9	.0	.4	2.3	3.9	4.6	2.8	2.0	1.0	1.0	.3	*	*	.1	.0	.0	.0	.0	.0	.0	732	7
10-11	.0	.4	.5	1.4	1.1	.8	.9	.4	.6	.2	.1	.1	.1	*	*	.0	.0	.0	.0	265	9
12-13	.0	.0	.2	.2	.4	.2	.3	.2	.2	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	83	10
>13	.0	.0	.0	.1	.3	.1	.0	.1	.1	.1	.1	*	.1	*	.0	.0	.0	.0	.0	41	13
INDET	1.9	.5	1.0	.8	.5	.2	.2	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	223	3
TOTAL																				3911	6
PCT	3.5	11.7	23.9	24.9	15.9	7.5	5.2	2.4	2.9	.8	.4	.3	.4	.1	*	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1857-1973

AREA 0005 BRISBANE
26.8S 153.5E

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	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	*
83/84	.8	1.2	.8	.2	.0	.0	.0	.0	.0	.0	.0	.3	33	.3
81/82	6.3	5.9	5.8	1.4	.0	.0	.0	.0	.0	.1	.3	1.3	209	1.7
79/80	20.0	26.7	20.1	6.3	1.2	.0	.0	.0	.1	.1	1.3	9.0	835	6.8
77/78	39.6	36.2	37.5	21.6	4.3	.6	.1	.0	.1	1.1	7.8	24.1	1712	13.9
75/76	24.4	18.8	24.1	33.0	17.5	3.9	1.0	.6	1.4	6.6	24.6	39.0	1946	15.8
73/74	6.5	8.3	6.5	23.8	32.9	15.8	2.5	3.0	4.7	21.0	32.3	17.0	1802	14.6
71/72	1.8	1.8	3.2	8.9	22.2	30.7	15.9	9.5	18.6	32.3	22.1	6.5	1825	14.8
69/70	.5	.4	1.1	2.5	11.0	26.9	32.0	27.2	28.6	25.2	8.4	1.7	1753	14.2
67/68	.0	.2	.5	1.1	6.8	12.3	26.9	28.8	29.3	9.9	2.8	.7	1265	10.2
65/66	.1	.2	.3	.8	2.4	4.9	12.4	16.7	13.7	2.8	.3	.4	582	4.7
63/64	.0	.0	.1	.4	1.4	3.7	4.9	7.4	2.2	.8	.1	.0	225	1.8
61/62	.0	.0	.0	.0	.2	.7	1.2	5.1	1.0	.1	.0	.0	88	.7
59/60	.0	.0	.0	.0	.2	.4	1.9	.9	.2	.0	.0	.0	39	.3
57/58	.0	.0	.0	.0	.0	.1	1.1	.7	.0	.1	.0	.0	21	.2
55/56	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	3	*
53/54	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	2	*
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	981	931	1078	1021	1214	1079	1136	1015	1032	1005	958	893	12343	100.0
MEAN	77.3	77.4	77.0	75.0	72.4	70.2	68.2	67.5	68.7	71.1	73.4	75.6	72.8	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1011	1010	1009	1009	1012	1010	1010	1010	1010	624
FEB	1013	1012	1012	1012	1013	1012	1011	1012	1012	652
MAR	1015	1014	1012	1013	1015	1013	1013	1013	1014	697
APR	1018	1016	1015	1016	1017	1016	1015	1016	1016	702
MAY	1019	1016	1016	1016	1018	1016	1016	1016	1017	741
JUN	1019	1017	1017	1016	1020	1017	1018	1018	1018	656
JUL	1020	1018	1017	1017	1019	1018	1018	1019	1018	735
AUG	1019	1018	1017	1017	1018	1017	1017	1018	1018	657
SEP	1018	1018	1016	1018	1018	1019	1018	1019	1018	684
OCT	1019	1016	1015	1016	1019	1016	1016	1016	1017	664
NOV	1016	1016	1012	1014	1014	1015	1014	1015	1014	592
DEC	1014	1012	1012	1012	1014	1012	1012	1012	1012	545
ANN	1017	1015	1014	1015	1016	1015	1015	1015	1015	7949
OBS	1023	597	1370	661	1145	776	1778	599		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	985	993	1001	1008	1011	1014	1018	1021	1023
FEB	990	996	1004	1009	1012	1016	1019	1022	1024
MAR	991	999	1003	1011	1014	1017	1021	1024	1027
APR	999	1003	1007	1013	1016	1019	1023	1025	1028
MAY	1001	1005	1008	1013	1017	1020	1025	1027	1028
JUN	997	1004	1008	1013	1019	1022	1027	1029	1032
JUL	1001	1006	1010	1015	1019	1022	1025	1027	1031
AUG	998	1003	1010	1015	1018	1021	1025	1027	1030
SEP	997	1001	1008	1014	1018	1022	1025	1028	1030
OCT	1001	1004	1008	1014	1017	1020	1023	1025	1028
NOV	999	1003	1005	1011	1014	1018	1022	1025	1031
DEC	1001	1003	1005	1009	1012	1015	1019	1022	1025

JANUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1858-1973

AREA 0006 COFFS HARBOUR
30.3S 153.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.0	.0	.6	.0	.0	.0	.0	2.3	.0	2.9	5.0	.0	4.0	.0	86.4
NE	8.5	.8	2.5	.0	.0	.0	.0	11.0	.0	1.9	1.7	.0	5.0	.0	81.3
E	5.2	3.7	1.8	.0	.0	.0	.0	10.8	1.2	.0	6.8	.0	2.2	.0	79.1
SE	3.7	5.9	1.7	.0	.0	.0	.0	11.3	.7	1.5	1.5	.0	3.1	.0	81.9
S	3.1	6.1	2.4	.0	.0	.0	.0	11.0	.6	3.2	2.8	.0	3.2	.0	79.3
SW	4.7	6.9	4.3	.0	.0	.0	.0	15.9	.0	4.7	1.7	.0	2.1	.0	77.3
W	3.0	11.9	6.0	.0	.0	.0	.0	20.9	.0	3.0	3.0	.0	.0	.0	73.1
NW	1.4	.0	4.2	.0	.0	.0	.0	4.2	2.8	.0	14.0	.0	1.4	.0	77.6
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	14.3	.0	.0	.0	.0	85.7
TOT PCT	4.0	3.6	2.1	.0	.0	.0	.0	9.4	.5	2.4	3.6	.0	3.3	.0	81.2
TOT OBS:	796														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	3.7	3.7	3.2	.0	.0	.0	.0	9.7	.5	.0	2.3	.0	4.1	.0	83.4
06609	6.7	2.5	1.3	.0	.0	.0	.0	10.5	.4	1.3	5.0	.0	4.6	.0	79.0
12615	2.3	3.8	2.3	.0	.0	.0	.0	7.5	.8	6.8	3.0	.0	.8	.0	81.2
18621	3.5	4.8	1.7	.0	.0	.0	.0	10.0	.4	3.5	3.5	.0	2.2	.0	80.8
TOT PCT	4.3	3.7	2.1	.0	.0	.0	.0	9.7	.5	2.4	3.5	.0	3.2	.0	81.0
TOT OBS:	817														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	8.0	8.8	1.7	.0	.0		19.6	12.2	21.3	21.3	13.1	16.4	11.4	27.8	20.4	24.5
NE	.7	8.6	6.3	.9	.2	.0		16.6	11.5	11.0	17.9	24.0	22.0	16.1	20.1	9.5	10.2
E	.4	7.1	2.2	.2	.1	.0		10.0	9.5	7.8	8.6	14.9	10.8	7.9	11.1	9.0	7.3
SE	1.0	8.1	6.1	1.0	.1	.0		16.3	11.2	9.9	16.4	19.0	22.4	17.1	13.7	15.8	14.5
S	1.0	6.1	10.0	3.1	.8	.2		21.1	15.1	28.9	24.5	23.0	19.8	34.3	17.1	16.6	12.9
SW	1.1	3.1	3.3	.7	*	*		8.1	11.6	12.7	6.2	3.3	4.2	6.1	4.7	12.4	15.3
W	.5	1.1	.5	.0	.0	.0		2.2	7.2	1.9	1.2	1.1	2.4	.0	2.6	3.6	4.0
NW	.5	2.5	1.4	.3	.0	.0		4.7	10.1	5.6	3.1	.9	2.0	2.9	3.0	9.0	10.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0	.9	.8	.8	.0	4.3	.0	3.5	1.1
TOT OBS	98	582	503	103	15	3	1304		11.9	116	242	249	125	70	117	199	186
TOT PCT	7.5	44.6	38.6	7.9	1.2	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.9	10.2	5.3	.3	.0		19.6	12.2	21.3	14.2	21.7	22.3
NE	3.7	9.2	3.2	.5	.0		16.6	11.5	15.6	23.3	18.6	9.9
E	3.6	5.1	1.1	.1	.1		10.0	9.5	8.3	13.5	9.9	8.2
SE	4.1	9.0	2.9	.3	*		16.3	11.2	14.3	20.1	15.0	15.2
S	3.2	10.0	6.1	1.5	.3		21.1	15.1	25.9	21.9	23.5	14.8
SW	2.2	3.8	1.8	.2	*		8.1	11.6	8.3	3.6	5.2	13.8
W	1.1	1.0	*	.0	.0		2.2	7.2	1.5	1.5	1.6	3.8
NW	1.5	2.5	.6	.1	.0		4.7	10.1	3.9	1.3	2.9	9.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	.8	.5	1.6	2.3
TOT OBS	321	663	274	40	6	1304		11.9	358	374	187	385
TOT PCT	24.6	50.8	21.0	3.1	.5		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.8	6.1	44.4	38.5	7.8	1.7	.6	12.3	100.0	358
06&09	.5	2.4	43.6	42.8	8.6	1.9	.3	13.0	100.0	374
12&15	1.6	8.0	42.8	35.3	12.3	.0	.0	12.0	100.0	187
18&21	2.3	9.1	46.8	36.1	5.2	.5	.0	10.3	100.0	385
TOT	17	81	582	503	103	15	3	11.9		1304
PCT	1.3	6.2	44.6	38.6	7.9	1.2	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.6	4.4	3.6	1.7		3.1
NE	6.7	3.6	1.9	2.3		3.4
E	2.7	1.7	3.2	3.0		4.9
SE	2.7	2.7	6.4	3.6		5.2
S	6.5	5.6	7.7	7.8		5.0
SW	2.0	1.4	2.7	.5		4.0
W	.7	.5	.0	.0		2.1
NW	2.6	.7	.5	.4		2.7
VAR	.0	.0	.0	.0		.0
CALM	.6	.9	.0	.0		2.4
TOT OBS	109	71	86	64	330	4.2
TOT PCT	33.0	21.5	26.1	19.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.7	1.1	.7	.3	.0	.0	.0	15.5	
NE	.0	.0	.3	.5	.4	1.1	.0	.0	.3	.0	11.8	
E	.0	.0	.3	.9	1.7	1.1	.4	.5	.3	.0	5.5	
SE	.0	.0	.0	1.6	4.2	2.0	.5	.2	.0	.0	7.0	
S	.0	.3	.5	4.1	5.9	1.4	.3	.0	.0	.3	14.8	
SW	.0	.0	.4	.4	.9	.3	.0	.0	.0	.0	4.8	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
NW	.0	.0	.0	.1	.0	.5	.0	.0	.0	.0	3.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
TOT OBS	0	1	5	27	47	23	5	2	2	1	217	330
TOT PCT	.0	.3	1.5	8.2	14.2	7.0	1.5	.6	.6	.3	65.8	100.0

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 >50YD	= OR >0
= OR >6500	.3	.6	.9	.9	.9	.9	.9	.9
= OR >5000	.9	1.2	1.5	1.5	1.5	1.5	1.5	1.5
= OR >3500	2.1	2.6	2.9	2.9	2.9	2.9	2.9	2.9
= OR >2000	7.6	9.1	9.7	9.7	9.7	9.7	9.7	9.7
= OR >1000	17.6	22.1	23.5	23.5	23.5	23.5	23.5	23.5
= OR >600	23.2	30.0	31.8	31.8	31.8	31.8	31.8	31.8
= OR >300	23.2	30.9	32.9	33.2	33.2	33.2	33.2	33.2
= OR >150	23.2	30.9	32.9	33.2	33.2	33.5	33.8	33.8
= OR > 0	23.2	30.9	32.9	33.2	33.2	33.5	33.8	33.8
TOTAL	79	105	112	113	113	114	115	115

TOTAL NUMBER OF OBS: 340

PCT FREQ NH <5/8: 66.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.4	20.2	15.0	11.7	7.3	5.4	6.7	6.2	16.1	.0	386

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PERIOD: (PRIMARY) 1914-1973
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.3	
	TOT %	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.6	.3	.7	.4	1.1	.0	.0	.2	.0	.0	3.3	
	TOT %	.6	.3	.7	.4	1.1	.0	.0	.2	.0	.0	3.3	
1<2	PCP	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.8	.3	.0	.1	.3	.0	.0	.3	.0	.0	1.8	
	TOT %	.8	.3	.1	.2	.3	.0	.0	.3	.0	.0	2.0	
2<5	PCP	.0	.0	.2	.2	.3	.1	.1	.0	.0	.0	.9	
	NO PCP	.1	.0	.3	.4	.5	*	.0	.3	.0	.0	1.5	
	TOT %	.1	.0	.5	.6	.8	.1	.1	.3	.0	.0	2.4	
5<10	PCP	.4	1.7	.6	1.5	1.8	1.0	.3	.1	.0	.0	7.4	
	NO PCP	6.4	3.3	2.6	6.3	7.2	2.0	.4	1.3	.0	.0	29.5	
	TOT %	6.8	5.0	3.2	7.8	9.0	3.0	.7	1.4	.0	.0	36.9	
10+	PCP	.1	.0	.1	.1	.1	.1	.1	.1	.0	.0	.8	
	NO PCP	11.8	9.5	5.5	7.7	11.2	4.0	1.2	2.3	.0	.9	54.3	
	TOT %	11.9	9.5	5.6	7.9	11.3	4.2	1.4	2.4	.0	.9	55.0	
	TOT OBS												794
	TOT PCT	20.3	15.1	10.2	16.9	22.7	7.3	2.1	4.5	.0	.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	TOT %	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.1	.2	.2	.6	.1	.0	.2	.0		1.5	
	11-21	.4	.1	.4	.2	.5	.0	.0	.0	.0		1.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	.2	.6	.4	1.0	.1	.0	.2	.0	.0	2.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.3	.1	.1	.2	.4	.1	.0	.2	.0		1.2	
	11-21	.5	.4	.0	.0	.1	.0	.0	.1	.0		1.1	
	22+	.1	.1	.1	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.8	.6	.2	.2	.5	.1	.0	.3	.0	.1	2.7	
2<5	0-3	.0	.0	.0	*	.1	.0	.0	.1	.0	.0	.2	
	4-10	.1	.3	.2	.3	.2	.2	.0	.0	.0		1.1	
	11-21	.0	.0	.1	.3	.5	.1	.1	.1	.0		1.1	
	22+	.1	.2	.2	.0	.1	.1	.0	.0	.0		.7	
	TOT %	.2	.5	.4	.6	.9	.3	.1	.2	.0	.0	3.2	
5<10	0-3	.2	.2	.2	.9	.3	.2	.0	.0	.0	.3	2.4	
	4-10	3.6	2.8	2.0	2.9	1.7	1.2	.4	.9	.0		15.4	
	11-21	1.8	1.1	.7	2.6	4.9	1.4	.3	.3	.0		13.1	
	22+	.5	.4	.0	.4	1.5	.3	.0	.1	.0		3.2	
	TOT %	6.1	4.6	2.8	6.8	8.4	3.1	.7	1.3	.0	.3	34.1	
10+	0-3	.7	.5	.4	.2	.7	.5	.5	.4	.0	.8	4.7	
	4-10	3.9	4.9	4.0	4.3	3.5	1.8	.9	1.0	.0		24.5	
	11-21	6.2	4.4	1.1	3.5	4.8	2.3	.2	1.2	.0		23.6	
	22+	1.0	.3	.1	.2	1.8	.3	.0	.3	.0		4.0	
	TOT %	11.7	10.1	5.6	8.2	10.8	4.9	1.6	2.9	.0	.8	56.7	
	TOT OBS												961
	TOT PCT	19.4	16.1	9.7	16.1	21.7	8.6	2.4	4.8	.0	1.2	100.0	

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PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1858-1973

AREA 0006 COFFS HARBOUR
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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
00&03	.0	.8	.8	7.5	15.0	5.8	.8	.0	.0	.0	30.8	69.2	120
06&09	.0	.9	1.8	9.9	10.8	1.8	1.8	.0	1.8	.9	29.7	70.3	111
12&15	.0	.0	.0	10.9	14.1	6.3	.0	.0	.0	.0	31.3	68.8	64
18&21	.0	.0	2.7	1.4	12.2	13.5	2.7	2.7	.0	.0	35.1	64.9	74
TOT	0	2	5	28	48	23	5	2	2	1	116	253	369
PCT	.0	.5	1.4	7.6	13.0	6.2	1.4	.5	.5	.3	31.4	68.6	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
00&03	.4	1.2	2.0	1.6	27.7	67.2	256
06&09	.4	5.0	2.9	5.4	34.6	51.8	280
12&15	.0	4.1	1.4	2.7	35.1	56.8	148
18&21	.7	1.7	3.7	3.0	37.9	53.0	298
TOT	4	28	26	32	333	559	982
PCT	.4	2.9	2.6	3.3	33.9	56.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.8	10.5	21.9	67.5	114
06&09	.0	3.0	16.8	15.8	67.3	101
12&15	.0	.0	13.6	18.6	67.8	59
18&21	.0	3.0	6.1	34.8	59.1	66
TOT	0	7	41	75	224	340
PCT	.0	2.1	12.1	22.1	65.9	100.0

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
90/94	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
85/89	.0	.0	.0	.2	.0	.2	.4	.2	5	1.0
80/84	.0	.0	.0	.4	1.6	3.2	1.0	.2	32	6.5
75/79	.0	.2	.2	1.6	3.8	13.9	13.9	5.2	193	38.9
70/74	.0	.0	.4	1.0	12.5	12.5	10.1	6.9	215	43.3
65/69	.0	.0	.0	.4	2.4	3.8	2.0	1.4	50	10.1
TOTAL	0	1	3	19	102	167	136	69	496	100.0
PCT	.0	.2	.6	3.6	20.6	33.7	27.4	13.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
.3	.3	.0	.0	.0	.2	.0	.2	.0	.0
3.1	1.5	.5	.3	.5	.1	.0	.5	.0	.0
10.7	8.2	3.2	5.3	6.8	2.0	.7	1.8	.0	.2
5.2	4.0	6.0	9.1	12.8	3.8	.6	1.1	.0	.8
.4	.7	.3	1.7	4.5	1.6	.4	.4	.0	.2
19.8	14.8	10.0	16.4	24.5	7.7	1.6	4.0	.0	1.2

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	90	82	80	75	69	67	66	75.2	348
06&09	90	85	81	75	70	67	66	75.2	366
12&15	79	78	78	73	68	67	64	73.2	186
18&21	89	80	78	73	68	66	65	73.1	389
TOT	90	82	80	74	69	67	64	74.3	1289

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	5.4	19.6	43.2	21.6	10.1	75	148
06&09	.0	5.4	28.2	30.9	22.8	12.8	75	149
12&15	.0	5.2	27.3	26.0	28.6	13.0	76	77
18&21	.0	1.4	10.0	32.1	36.4	20.0	81	140
TOT	0	22	106	175	139	72	77	514

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1850-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) 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	.1	.0	.0	.0	1	.0	.1
11/13	.0	.0	.0	.1	.0	.0	.3	3	.1	.3
9/10	.0	.0	.0	.3	.3	.0	.1	5	.1	.6
7/8	.0	.1	.1	.4	.6	.4	.0	12	.0	1.7
6	.0	.1	.1	.3	.1	.3	.0	7	.0	1.0
5	.1	.0	.7	1.3	.9	.0	.0	21	.0	3.0
4	.0	.1	1.3	2.5	.1	.0	.0	28	.0	4.1
3	.0	.4	1.3	3.0	.4	.0	.0	36	.1	5.1
2	.0	.6	3.8	3.2	.3	.0	.0	54	.3	7.5
1	.1	.3	6.5	2.3	.0	.0	.0	64	.3	9.0
0	.1	3.0	9.7	2.6	.1	.0	.0	108	1.0	14.6
-1	.4	2.3	7.5	2.6	.1	.0	.0	90	.6	12.5
-2	.3	4.3	5.9	1.9	.0	.0	.0	86	.9	11.6
-3	.6	2.6	2.6	.6	.0	.0	.0	45	.0	6.5
-4	.7	3.8	3.6	.3	.0	.0	.0	58	.0	8.4
-5	1.3	2.5	1.3	.1	.0	.0	.0	36	.0	5.2
-6	.3	1.3	.0	.0	.0	.0	.0	11	.0	1.6
-7/-8	.7	1.6	.1	.0	.0	.0	.0	17	.1	2.3
-9/-10	.7	.3	.1	.0	.0	.0	.0	8	.0	1.2
TOTAL	38	163	310	150	21	5	3	690	25	665
PCT	5.5	23.6	44.9	21.7	3.0	.7	.4	100.0	3.6	96.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	.7	.0	.0	.0	.0	1.8
1-2	.0	2.1	3.5	.0	.0	.0	5.6
3-4	.0	1.3	4.7	.6	.0	.0	6.6
5-6	.0	.0	1.6	1.0	.0	.0	2.6
7	.0	.0	1.0	.0	.0	.0	1.0
8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.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
TOT PCT	1.1	4.1	11.1	1.9	.0	.0	18.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.1	.0	.0	.0	.0	.4
1-2	.4	2.7	1.5	.0	.0	.0	4.7
3-4	.0	2.2	3.9	.4	.0	.0	6.5
5-6	.0	.4	1.6	.4	.0	.0	2.3
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.8	5.4	7.1	.8	.0	.0	14.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.3	2.8	.4	.0	.0	.0	3.4
3-4	.0	2.3	1.0	.0	.0	.0	3.3
5-6	.0	.4	.3	.4	.0	.0	1.0
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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	.4	.0	.4
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
TOT PCT	.3	6.8	2.0	.4	.4	.0	9.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.4	2.2	.6	.0	.0	.0	3.2
3-4	.0	2.4	1.7	.4	.0	.0	4.5
5-6	.0	.4	4.4	.2	.0	.0	4.9
7	.0	.0	.0	.4	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	6.6	6.7	1.0	.0	.0	14.7

PERIOD: (OVER-ALL) 1963-1973

JANUARY

TABLE 18 (CONT)

AREA 0006 COFFS HARBOUR
30.3S 153.3E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	.9	.3	.0	.0	.0	2.2	.4	.6	.1	.0	.0	.0	1.1
1-2	.0	2.7	1.8	.0	.0	.0	4.5	.1	.4	1.2	.0	.0	.0	1.7
3-4	.0	2.8	6.5	1.7	.0	.0	10.9	.4	.4	2.7	.1	.0	.0	3.5
5-6	.0	.6	3.4	1.5	.0	.0	5.6	.0	.1	.9	.1	.0	.0	1.1
7	.0	.0	1.3	1.7	.0	.0	3.0	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.4	.5	.4	.0	.0	1.3	.0	.0	.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	.4	.0	.0	.0	.4
13-16	.0	.0	.0	.3	.0	.0	.3	.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	.6	.6	.0	.0	.0	.0	.0	.1	.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
TOT PCT	1.1	7.3	13.8	5.6	.0	.6	28.4	.8	1.5	5.8	.3	.0	.1	8.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.8	.0	.0	.0	.0	.8	.4	.4	.0	.0	.0	.0	.7	
1-2	.3	.0	.4	.0	.0	.0	.6	.0	.0	.4	.0	.0	.0	.4	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.7	.4	.0	.0	.0	1.2	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0	.4	
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	.3	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0	.4	
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	
TOT PCT	.5	.8	.4	.0	.0	.0	1.7	.4	1.1	1.5	.2	.0	.0	3.2	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.3	6.4	.4	.0	.0	.0	12.1	
1-2	1.4	13.1	9.6	.0	.0	.0	24.1	
3-4	.4	12.1	20.6	3.2	.0	.0	36.2	
5-6	.0	1.8	12.4	3.5	.0	.0	17.7	
7	.0	.0	3.2	2.1	.0	.0	5.3	
8-9	.0	.4	1.1	.4	.0	.0	1.8	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.4	.0	.3	.0	.0	.0	.7	
13-16	.0	.0	.4	.7	.0	.0	1.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.4	.0	.4	
26-32	.0	.0	.0	.0	.0	.7	.7	
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	
TOT PCT	7.4	33.7	47.9	9.9	.4	.7	100.0	282

PERIOD: (OVER-ALL) 1949-1973

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	2.1	6.3	15.1	6.6	4.5	1.2	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	121	4
6-7	.0	1.2	8.2	15.4	8.2	2.7	1.5	.3	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	127	6
8-9	.0	.3	2.4	5.1	4.2	1.2	.3	.3	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	48	7
10-11	.0	.0	.0	.9	.6	.9	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	10	9
12-13	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
>13	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	2	20
INDET	1.5	1.5	1.5	1.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	3
TOTAL	12	31	91	98	60	21	7	3	2	2	0	1	3	0	0	0	0	0	0	331	5
PCT	3.6	9.4	27.5	29.6	18.1	6.3	2.1	.9	.6	.6	.0	.3	.9	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1876-1969

AREA 0006 COFFS HARBOUR
30.3S 153.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.3	.6	.0	.0	.0	.0	.0	5.9	.0	3.6	1.7	.0	3.4	.0		85.5
NE	4.6	2.7	2.1	.0	.0	.0	.0	9.4	5.0	1.0	3.7	.0	2.5	.0		78.4
E	3.5	6.5	1.3	.0	.0	.0	.0	11.2	.9	.0	.9	.0	1.7	.0		85.3
SE	4.6	5.3	.7	.0	.0	.0	.0	10.6	1.4	.7	3.5	.0	1.4	.0		82.4
S	6.5	8.1	1.9	.0	.0	.0	.0	16.6	6.1	3.0	3.5	.0	5.1	.0		66.4
SW	3.1	9.2	1.8	.0	.0	.0	.0	14.0	.9	3.9	.0	.0	3.5	.0		77.6
W	2.9	5.8	.0	.0	.0	.0	.0	8.7	.0	8.7	.0	.0	5.8	.0		76.8
NW	4.0	.0	.0	.0	.0	.0	.0	4.0	.0	6.4	.0	3.2	.0	.0		86.4
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	.0	.0		100.0
TOT PCT	4.7	4.9	1.2	.0	.0	.0	.0	10.8	2.5	2.2	2.3	.1	2.9	.0		79.3
TOT OBS:	768															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	4.3	5.7	.0	.0	.0	.0	.0	10.0	4.7	.0	1.9	.5	3.8	.0		79.1
06609	3.8	4.6	.4	.0	.0	.0	.0	8.9	2.1	1.3	3.8	.0	3.8	.0		80.2
12615	6.7	4.5	5.2	.0	.0	.0	.0	16.4	1.5	6.7	1.5	.0	.7	.0		73.9
18621	5.4	5.0	.5	.0	.0	.0	.0	10.9	1.0	4.0	1.5	.0	2.0	.0		80.7
TOT PCT	4.8	5.0	1.1	.0	.0	.0	.0	11.0	2.4	2.6	2.3	.1	2.8	.0		79.0
TOT OBS:	784															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	6.9	6.8	.7	.1	.0		14.8	11.4	13.5	14.5	8.7	18.8	14.7	19.0	19.7	14.2
NE	.9	8.4	5.6	.8	*	.0		15.7	10.3	14.3	16.7	19.5	19.2	13.7	17.1	12.1	11.4
E	1.5	8.6	4.7	.6	.3	.0		15.7	10.5	7.9	14.0	20.0	16.5	15.4	18.5	15.9	15.4
SE	1.0	6.7	8.0	3.2	.4	.1		19.4	14.2	13.9	23.8	23.4	28.1	13.7	19.4	13.9	14.5
S	.6	4.9	9.1	4.0	.6	.1		19.3	16.2	23.8	21.8	22.4	11.6	29.5	13.0	17.9	15.4
SW	.4	2.7	3.2	.9	.1	.0		7.4	13.1	11.9	4.2	3.9	3.7	7.9	10.2	7.9	12.7
W	.5	1.6	.3	.0	.0	.0		2.4	6.2	4.0	1.0	1.1	.8	1.4	.0	5.1	4.9
NW	.6	2.2	1.2	*	.0	.0		4.0	8.4	8.3	2.7	1.1	1.2	2.4	1.9	5.8	9.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.1	2.4	1.5	.0	.0	1.4	.9	1.7	2.5
TOT OBS	86	502	464	122	19	2	1195		12.3	126	204	228	121	73	108	173	162
TOT PCT	7.2	42.0	38.8	10.2	1.6	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.3	8.7	2.6	.2	.0		14.8	11.4	14.1	12.2	17.3	17.0
NE	4.3	9.7	1.4	.3	.0		15.7	10.3	15.8	19.4	15.7	11.8
E	4.9	8.4	1.8	.5	.1		15.7	10.5	11.7	18.8	17.3	15.7
SE	3.4	9.3	5.1	1.4	.2		19.4	14.2	20.0	25.0	17.1	14.2
S	2.5	8.4	6.1	2.0	.3		19.3	16.2	22.6	18.6	19.6	16.7
SW	1.3	3.7	2.3	.1	*		7.4	13.1	7.1	3.9	9.3	10.2
W	1.5	.9	.0	.0	.0		2.4	6.2	2.1	1.0	.6	5.0
NW	1.7	2.2	.2	*	.0		4.0	8.4	4.8	1.1	2.1	7.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.1	1.8	.0	1.1	2.1
TOT OBS	286	614	233	54	8	1195		12.3	330	349	181	335
TOT PCT	23.9	51.4	19.5	4.5	.7		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.8	7.9	42.7	38.8	7.6	1.2	.0	11.4	100.0	330
06&09	.0	4.6	39.8	43.0	10.3	2.3	.0	12.8	100.0	349
12&15	1.1	6.1	35.9	40.9	14.4	1.1	.6	13.6	100.0	181
18&21	2.1	5.4	46.9	33.4	10.4	1.5	.3	11.9	100.0	335
TOT	15	71	502	464	122	19	2	12.3		1195
PCT	1.3	5.9	42.0	38.8	10.2	1.6	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.3	3.1	1.9	.7		2.5
NE	4.1	2.5	6.0	3.0		4.8
E	5.1	3.7	4.6	2.6		4.3
SE	2.9	3.1	4.5	4.2		5.3
S	5.0	4.3	3.0	6.9		5.3
SW	3.4	1.1	2.6	.5		3.6
W	.3	1.1	.4	.6		4.5
NW	1.6	1.0	.7	.9		4.0
VAR	.0	.0	.0	.0		.0
CALM	.9	.3	.3	.3		3.1
TOT OBS	105	69	103	66	343	4.4
TOT PCT	30.6	20.1	30.0	19.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.2	.8	.5	.3	.0	.0	.0	10.6	
.0	.0	.3	1.5	1.5	.9	.6	.0	.0	.0	10.6	
.0	.0	.0	1.9	2.3	.6	.6	.0	.0	.6	10.1	
.0	.0	.3	1.1	2.8	2.0	.4	.0	.0	.0	8.2	
.0	.0	.8	3.1	4.6	2.6	1.4	.0	.0	.0	12.8	
.0	.0	.1	.6	.9	.7	.0	.0	.0	.0	5.4	
.0	.0	.0	.0	.6	.0	.3	.0	.0	.0	1.5	
.0	.0	.0	.3	.0	.0	.0	.0	.3	.0	3.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	1.2	
0	0	5	30	46	26	13	0	1	2	220	343
.0	.0	1.5	8.7	13.4	7.6	3.8	.0	.3	.6	64.1	100.0

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 >50YD	= OR >0
= OR >6500	.9	.9	.9	.9	.9	.9	.9	.9
= OR >5000	.9	.9	.9	.9	.9	.9	.9	.9
= OR >3500	4.0	4.6	4.6	4.6	4.6	4.6	4.6	4.6
= OR >2000	9.5	11.8	12.1	12.1	12.1	12.1	12.1	12.1
= OR >1000	18.8	25.1	25.4	25.4	25.4	25.4	25.4	25.4
= OR >600	23.4	31.8	33.8	34.1	34.4	34.4	34.4	34.4
= OR >300	24.0	32.7	35.0	35.3	35.8	35.8	35.8	35.8
= OR >150	24.0	32.7	35.0	35.3	35.8	35.8	35.8	35.8
= OR > 0	24.0	32.7	35.0	35.3	35.8	35.8	35.8	35.8
TOTAL	83	113	121	122	124	124	124	124

TOTAL NUMBER OF OBS: 346

PCT FREQ NH <5/8: 64.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.3	17.5	16.3	13.0	9.5	5.0	6.8	10.5	14.0	.0	399

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	
1/2<1	PCP	.0	.0	.1	.1	.2	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.6	.1	1.1	.3	.0	.0	.0	.0	.0	2.1	
	TOT %	.0	.6	.3	1.2	.5	.0	.0	.0	.0	.0	2.5	
1<2	PCP	.1	.1	.1	.1	.1	.2	.0	.0	.0	.0	.7	
	NO PCP	.5	.2	.1	.3	1.0	.3	.1	.0	.0	.0	2.5	
	TOT %	.5	.3	.3	.4	1.1	.4	.1	.0	.0	.0	3.1	
2<5	PCP	.0	.1	.1	.3	.5	.1	.0	.0	.0	.0	1.0	
	NO PCP	.0	.0	.4	.1	.4	.2	.1	.0	.0	.0	1.2	
	TOT %	.0	.1	.4	.4	.9	.3	.1	.0	.0	.0	2.2	
5<10	PCP	.5	.9	1.1	1.3	1.5	.6	.2	.1	.0	.0	6.3	
	NO PCP	5.1	3.6	4.0	5.1	4.3	1.6	.4	1.1	.0	.5	25.8	
	TOT %	5.6	4.5	5.1	6.4	5.8	2.2	.6	1.3	.0	.5	32.0	
10+	PCP	.3	.3	.1	.3	1.1	.2	.0	*	.0	.0	2.3	
	NO PCP	8.9	9.8	8.8	9.9	11.1	4.3	1.4	2.8	.0	.7	37.6	
	TOT %	9.2	10.1	8.9	10.2	12.2	4.5	1.4	2.8	.0	.7	39.9	
	TOT OBS												768
	TOT PCT	15.3	15.7	15.1	18.5	20.5	7.4	2.2	4.1	.0	1.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.3	.1	.0	.0	.0	.0	.0	.0		.3	
	11-21	.0	.2	.0	.1	.2	.0	.0	.0	.0		.5	
	22+	.0	.0	.1	.9	.2	.0	.0	.0	.0		1.2	
	TOT %	.0	.5	.2	1.0	.4	.0	.0	.0	.0	.0	2.2	
1<2	0-3	.0	.0	.1	.1	.1	.0	.1	.0	.0	.0	.3	
	4-10	.1	.2	.0	.0	.1	.1	.0	.1	.0		.5	
	11-21	.4	.1	.2	.2	.7	.2	.0	.0	.0		1.7	
	22+	.0	.0	.0	.1	.1	.1	.0	.0	.0		.3	
	TOT %	.5	.2	.2	.3	1.0	.4	.1	.1	.0	.0	2.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.2	.1	.1	.0	.1	.0	.0		.7	
	11-21	.0	.0	.2	.2	.2	.2	.0	.0	.0		.8	
	22+	.0	.2	.1	.1	.8	.1	.0	.0	.0		1.4	
	TOT %	.0	.4	.5	.5	1.0	.4	.1	.0	.0	.0	2.8	
5<10	0-3	.1	.3	.7	.5	.1	.2	.1	.2	.0	.5	2.6	
	4-10	2.3	2.4	1.6	1.3	1.6	.9	.5	.7	.0		11.4	
	11-21	2.6	1.5	1.8	2.7	2.3	.7	.0	.2	.0		11.9	
	22+	.3	.2	.4	1.4	1.6	.5	.0	.0	.0		4.4	
	TOT %	5.4	4.4	4.6	5.9	5.4	2.3	.6	1.2	.0	.5	30.3	
10+	0-3	.3	.4	.7	.7	.4	.4	.2	.6	.0	.8	4.5	
	4-10	4.2	4.7	5.6	4.9	3.4	2.0	.9	1.8	.0		27.5	
	11-21	4.3	4.8	2.1	3.7	5.7	2.4	.4	1.0	.0		24.4	
	22+	.5	.6	.1	.8	2.6	.4	.0	*	.0		5.1	
	TOT %	9.3	10.6	8.4	10.1	12.1	5.3	1.6	3.4	.0	.8	61.5	
	TOT OBS												881
	TOT PCT	15.2	16.2	14.2	17.8	19.9	8.3	2.4	4.6	.0	1.2	100.0	

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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
00&03	.0	.0	.8	6.4	15.2	8.0	3.2	.0	.8	.0	34.4	65.6	125
06&09	.0	.0	.0	7.1	10.7	7.1	3.6	.0	.0	1.8	30.4	69.6	112
12&15	.0	.0	1.4	13.0	13.0	4.3	1.4	.0	.0	.0	33.3	66.7	69
18&21	.0	.0	4.2	8.3	8.3	6.9	5.6	.0	.0	.0	33.3	66.7	72
TOT	0	0	5	31	46	26	13	0	1	2	124	254	378
PCT	.0	.0	1.3	8.2	12.2	6.9	3.4	.0	.3	.5	32.8	67.2	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
00&03	.4	1.3	2.5	3.0	25.3	67.5	237
06&09	.4	2.7	4.2	3.1	32.6	57.1	261
12&15	.7	2.7	.0	4.8	27.4	64.4	146
18&21	.0	2.0	3.2	1.6	36.1	57.1	252
TOT	3	19	25	26	276	547	896
PCT	.3	2.1	2.8	2.9	30.8	61.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.8	7.6	28.8	63.6	118
06&09	.0	.0	9.7	24.3	66.0	103
12&15	.0	3.2	15.9	20.6	63.5	63
18&21	.0	4.8	14.5	24.2	61.3	62
TOT	0	6	38	87	221	346
PCT	.0	1.7	11.0	25.1	63.9	100.0

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
85/89	.0	.0	.0	.0	.4	.0	.2	.0	3	.6
80/84	.0	.0	.0	.6	.7	4.2	2.4	1.1	49	9.0
75/79	.0	.0	.2	1.5	8.3	14.8	17.2	7.9	270	49.8
70/74	.0	.0	.2	2.0	7.6	7.7	10.9	8.5	200	36.9
65/69	.0	.0	.2	.4	.4	.7	1.3	.7	20	3.7
TOTAL	0	0	3	24	94	149	173	99	542	100.0
PCT	.0	.0	.6	4.4	17.3	27.5	31.9	18.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.2	.0	.0	.0	.4	.0	.0
2.4	3.0	1.8	.8	.5	.2	.0	.5	.0	.0
10.4	10.0	6.7	6.8	8.5	2.7	.7	2.5	.0	1.5
4.2	3.0	5.4	7.1	11.2	3.6	1.2	1.3	.0	.0
.0	.0	.2	.1	1.7	.9	.6	.0	.0	.2
17.0	16.0	14.0	15.0	21.8	7.5	2.4	4.7	.0	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	89	83	81	76	70	66	66	75.8	316
06&09	85	83	80	75	70	67	66	75.4	344
12&15	80	79	78	73	70	66	65	73.7	180
18&21	86	81	78	73	67	65	60	73.3	336
TOT	89	82	80	75	69	66	60	74.7	1176

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	6.3	20.0	30.6	34.4	8.8	76	160
06&09	.0	4.7	19.3	29.8	29.2	17.0	78	171
12&15	.0	3.3	17.4	18.5	32.6	28.3	81	92
18&21	.0	4.5	12.0	24.1	32.3	27.1	81	133
TOT	0	27	97	149	178	105	79	556

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
11/13	.0	.0	.6	.0	.1	5	.0	.7
9/10	.0	.1	.0	.0	.0	1	.0	.1
7/8	.0	.0	.3	.3	.1	5	.0	.7
6	.0	.0	.3	.1	.0	3	.0	.4
5	.0	.0	.4	.7	.7	13	.0	1.9
4	.0	.0	.1	1.3	.7	15	.0	2.2
3	.0	.4	1.2	1.5	.7	26	.1	3.7
2	.1	.4	2.5	4.5	.9	57	.4	8.0
1	.0	.9	3.4	3.4	.7	57	.3	8.2
0	.0	1.5	5.5	6.3	.4	92	.4	13.2
-1	.1	1.8	6.1	3.4	.1	78	.1	11.5
-2	.1	3.0	9.1	3.4	.0	105	.4	15.2
-3	.0	3.3	4.6	1.6	.0	64	.3	9.2
-4	.3	2.4	6.4	.3	.0	63	.1	9.2
-5	.1	1.9	3.0	.1	.0	35	.1	5.1
-6	.1	1.6	1.5	.1	.0	23	.0	3.4
-7/-8	.6	1.8	.9	.1	.0	23	.0	3.4
-9/-10	.4	.1	.3	.0	.0	6	.0	.9
-11/-13	.0	.1	.0	.0	.0	1	.0	.1
TOTAL	14	131	311	184	32	672	17	655
PCT	2.1	19.5	46.3	27.4	4.8	100.0	2.5	97.5

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.0	.0	.0	.0	.0	.4
1-2	.4	3.3	.3	.0	.0	.0	3.9
3-4	.0	2.0	3.4	.0	.0	.0	5.4
5-6	.0	.0	2.0	.0	.4	.0	2.3
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.3	.0	.0	.0	.3
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
TOT PCT	.7	5.2	6.2	.3	.4	.0	12.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.8	.0	.0	.0	.0	.9
1-2	.0	4.5	1.9	.0	.0	.0	6.3
3-4	.0	2.1	3.6	.0	.0	.0	5.8
5-6	.0	.4	2.0	.0	.0	.0	2.4
7	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.0	.7	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.1	7.8	8.5	.7	.0	.0	17.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.3	.0	.0	.0	.0	1.6
1-2	.4	5.5	.3	.0	.0	.0	6.1
3-4	.0	2.7	3.5	.0	.0	.0	6.2
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.7	9.5	4.2	.0	.0	.0	14.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.0	.5	.0	.0	.0	2.8
1-2	.4	3.4	.5	.0	.0	.0	4.3
3-4	.0	1.3	3.6	.0	.0	.0	4.9
5-6	.0	.4	2.4	.4	.0	.0	3.2
7	.0	.0	.6	.1	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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	.4	.0	.4
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
TOT PCT	.7	7.1	7.5	.5	.4	.0	16.2

PERIOD: (OVER-ALL) 1963-1969

FEBRUARY

TABLE 18 (CONT)

AREA 0006 COFFS HARBOUR
30.3S 153.3E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.3	.0	.0	.0	.3	.0	.4	.0	.0	.0	.0	.4
1-2	.0	4.6	1.1	.0	.0	.0	5.7	.0	1.3	.4	.0	.0	.0	1.7
3-4	.0	1.0	4.9	.4	.0	.0	6.3	.0	1.2	1.7	.0	.0	.0	2.9
5-6	.0	.3	2.6	1.1	.0	.0	4.0	.0	.1	.6	.7	.0	.0	1.4
7	.0	.4	1.7	2.1	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.7	.7	.0	1.5	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.4	.7	.0	1.0	.0	.0	.0	.4	.1	.0	.5
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	.4	.0	.0	.4	.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	.4	.4	.7	.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
TOT PCT	.0	6.2	10.6	5.1	1.8	.4	24.1	.0	3.0	2.6	1.1	.1	.0	6.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.7	.4	.0	.0	.0	1.1	.0	1.3	.5	.0	.0	.0	1.8	
3-4	.0	.3	.7	.0	.0	.0	1.0	.0	.6	1.1	.0	.0	.0	1.7	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.8	
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	.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	
TOT PCT	.0	1.8	1.1	.0	.0	.0	2.9	.0	1.9	2.4	.1	.0	.0	4.4	98.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.3	5.1	.7	.0	.0	.0	9.2	
1-2	1.5	24.3	5.1	.0	.0	.0	30.9	
3-4	.0	11.0	22.4	.4	.0	.0	33.8	
5-6	.0	1.1	10.7	2.2	.4	.0	14.3	
7	.0	.4	3.3	2.2	.0	.0	5.9	
8-9	.0	.0	.0	1.5	.7	.0	2.2	
10-11	.0	.0	.0	1.1	.7	.0	1.8	
12	.0	.0	.4	.0	.0	.0	.4	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.4	.0	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.7	.4	1.1	
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	
								272
TOT PCT	4.8	41.9	42.6	7.7	2.6	.4	100.0	

PERIOD: (OVER-ALL) 1950-1969

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	7.4	16.6	8.0	1.5	.0	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	121	4
6-7	.0	1.2	8.3	8.3	9.2	2.4	1.2	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	109	6
8-9	.0	.0	1.5	2.4	5.0	3.0	1.5	.6	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	7
10-11	.0	.0	.3	.9	1.8	1.8	.6	.3	.9	.0	.6	.0	1.2	.0	.0	.0	.0	.0	.0	28	12
12-13	.0	.0	.0	.6	1.2	.3	.0	.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	10	9
>13	.0	.0	.0	.0	.0	.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	9
INDET	1.2	.3	.3	2.1	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	4
TOTAL	6	30	91	75	64	27	17	11	8	2	3	0	4	0	0	0	0	0	0	338	6
PCT	1.8	8.9	26.9	22.2	18.9	8.0	5.0	3.3	2.4	.6	.9	.0	1.2	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1876-1972

AREA 0006 COFFS HARBOUR
30.3S 153.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.4	1.7	.0	.0	.0	.0	.0	2.1	.6	3.1	.0	.0	3.7	.0	90.5
NE	2.9	3.4	1.0	.0	.0	.0	.0	7.3	1.2	1.2	.0	.0	3.4	.0	86.8
E	3.7	7.1	.0	.0	.0	.0	.0	10.8	.0	4.4	1.8	.0	.9	.0	82.1
SE	2.9	5.4	.7	.0	.0	.0	.0	9.0	3.6	1.0	.3	.0	.7	.0	85.4
S	1.8	5.4	1.0	.0	.0	.0	.0	8.2	2.1	3.6	1.6	.0	1.1	.0	83.4
SW	6.8	9.9	3.0	.0	.0	.0	.0	19.8	1.5	2.3	.0	.0	1.9	.0	75.3
W	6.2	.0	1.5	.0	.0	.0	.0	7.7	4.6	1.5	6.2	.0	9.2	.0	72.3
NW	4.8	.0	.0	.0	.0	.0	.0	4.8	.0	3.0	.0	.0	4.8	.0	87.5
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	22.2	.0	77.8
TOT PCT	2.9	4.6	.8	.0	.0	.0	.0	8.3	1.7	2.6	.9	.0	2.6	.0	84.1
TOT OBS:	782														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.3	2.7	.4	.0	.0	.0	.0	4.5	1.3	.4	.9	.0	4.9	.0	87.9
06&09	3.5	5.7	.4	.0	.0	.0	.0	9.7	1.8	1.8	.0	.0	1.8	.0	85.0
12&15	3.8	6.9	.8	.0	.0	.0	.0	11.5	2.3	6.9	.8	.0	.0	.0	78.6
18&21	3.9	4.4	1.7	.0	.0	.0	.0	10.0	1.7	2.6	2.2	.0	2.2	.0	81.7
TOT PCT	3.1	4.7	.9	.0	.0	.0	.0	8.6	1.7	2.5	1.0	.0	2.5	.0	83.8
TOT OBS:	810														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	8.4	5.2	.4	.1	.0		15.3	10.2	16.9	15.0	12.6	15.7	13.9	20.7	16.1	14.0
NE	1.0	8.7	3.7	.3	.0	.0		13.7	9.2	3.2	11.0	18.1	18.0	18.9	15.5	16.0	8.8
E	1.1	8.1	4.7	.2	*	.0		14.2	9.8	7.7	12.6	16.7	21.0	11.8	22.8	11.4	10.5
SE	1.0	6.8	8.0	1.6	.4	.0		17.7	13.1	18.3	15.4	25.3	19.3	24.0	11.2	13.6	15.2
S	.7	6.0	8.2	2.9	.6	.1		18.4	15.0	18.5	26.3	21.2	18.0	20.9	12.5	14.2	12.4
SW	.5	3.8	3.5	1.0	.3	.0		9.0	13.1	16.3	10.2	3.0	4.0	5.1	5.2	10.8	16.2
W	.6	2.7	.7	.1	.0	.0		4.1	7.7	5.6	2.5	1.1	1.0	2.4	4.3	7.3	8.8
NW	.8	3.3	1.1	.0	.0	.0		5.2	7.8	10.1	4.9	.7	2.3	.3	4.3	8.1	10.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0	3.2	2.1	1.2	.7	2.7	3.4	2.4	4.3
TOT OBS	124	640	468	88	19	1	1340		11.2	124	236	246	150	74	116	206	188
TOT PCT	9.3	47.8	34.9	6.6	1.4	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.6	8.5	2.0	.1	.0		15.3	10.2	15.7	13.8	18.0	15.1
NE	5.1	7.1	1.4	.0	.0		13.7	9.2	8.3	18.1	16.8	12.6
E	4.9	7.1	2.1	.1	.0		14.2	9.8	10.9	18.3	18.6	11.0
SE	3.2	9.1	4.8	.6	*		17.7	13.1	16.4	23.0	16.2	14.3
S	2.9	7.9	6.2	1.3	.1		18.4	15.0	23.6	20.0	15.8	13.3
SW	2.0	4.0	2.3	.6	.0		9.0	13.1	12.3	3.4	5.1	13.4
W	2.3	1.7	.1	.1	.0		4.1	7.7	3.6	1.1	3.6	8.0
NW	2.4	2.5	.4	.0	.0		5.2	7.8	6.7	1.3	2.8	9.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.0	2.5	1.0	3.2	3.3
TOT OBS	397	644	259	38	2	1340		11.2	360	396	190	394
TOT PCT	29.6	48.1	19.3	2.8	.1		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1876-1972

AREA 0006 COFFS HARBOUR
30.3S 153.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.4	1.7	.0	.0	.0	.0	.0	2.1	.6	3.1	.0	.0	3.7	.0	90.5
NE	2.9	3.4	1.0	.0	.0	.0	.0	7.3	1.2	1.2	.0	.0	3.4	.0	86.8
E	3.7	7.1	.0	.0	.0	.0	.0	10.8	.0	4.4	1.8	.0	.9	.0	82.1
SE	2.9	5.4	.7	.0	.0	.0	.0	9.0	3.6	1.0	.3	.0	.7	.0	85.4
S	1.8	5.4	1.0	.0	.0	.0	.0	8.2	2.1	3.6	1.6	.0	1.1	.0	83.4
SW	6.8	9.9	3.0	.0	.0	.0	.0	19.8	1.5	2.3	.0	.0	1.9	.0	75.3
W	6.2	.0	1.5	.0	.0	.0	.0	7.7	4.6	1.5	6.2	.0	9.2	.0	72.3
NW	4.8	.0	.0	.0	.0	.0	.0	4.8	.0	3.0	.0	.0	4.8	.0	87.5
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	22.2	.0	77.8
TOT PCT	2.9	4.6	.8	.0	.0	.0	.0	8.3	1.7	2.6	.9	.0	2.6	.0	84.1
TOT OBS:	782														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.3	2.7	.4	.0	.0	.0	.0	4.5	1.3	.4	.9	.0	4.9	.0	87.9
06&09	3.5	5.7	.4	.0	.0	.0	.0	9.7	1.8	1.8	.0	.0	1.8	.0	85.0
12&15	3.8	6.9	.8	.0	.0	.0	.0	11.5	2.3	6.9	.8	.0	.0	.0	78.6
18&21	3.9	4.4	1.7	.0	.0	.0	.0	10.0	1.7	2.6	2.2	.0	2.2	.0	81.7
TOT PCT	3.1	4.7	.9	.0	.0	.0	.0	8.6	1.7	2.5	1.0	.0	2.5	.0	83.8
TOT OBS:	810														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	8.4	5.2	.4	.1	.0		15.3	10.2	16.9	15.0	12.6	15.7	13.9	20.7	16.1	14.0
NE	1.0	8.7	3.7	.3	.0	.0		13.7	9.2	3.2	11.0	18.1	18.0	18.9	15.5	16.0	8.8
E	1.1	8.1	4.7	.2	*	.0		14.2	9.8	7.7	12.6	16.7	21.0	11.8	22.8	11.4	10.5
SE	1.0	6.8	8.0	1.6	.4	.0		17.7	13.1	18.3	15.4	25.3	19.3	24.0	11.2	13.6	15.2
S	.7	6.0	8.2	2.9	.6	.1		18.4	15.0	18.5	26.3	21.2	18.0	20.9	12.5	14.2	12.4
SW	.5	3.8	3.5	1.0	.3	.0		9.0	13.1	16.3	10.2	3.0	4.0	5.1	5.2	10.8	16.2
W	.6	2.7	.7	.1	.0	.0		4.1	7.7	5.6	2.5	1.1	1.0	2.4	4.3	7.3	8.8
NW	.8	3.3	1.1	.0	.0	.0		5.2	7.8	10.1	4.9	.7	2.3	.3	4.3	8.1	10.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0	3.2	2.1	1.2	.7	2.7	3.4	2.4	4.3
TOT OBS	124	640	468	88	19	1	1340		11.2	124	236	246	150	74	116	206	188
TOT PCT	9.3	47.8	34.9	6.6	1.4	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.6	8.5	2.0	.1	.0		15.3	10.2	15.7	13.8	18.0	15.1
NE	5.1	7.1	1.4	.0	.0		13.7	9.2	8.3	18.1	16.8	12.6
E	4.9	7.1	2.1	.1	.0		14.2	9.8	10.9	18.3	18.6	11.0
SE	3.2	9.1	4.8	.6	*		17.7	13.1	16.4	23.0	16.2	14.3
S	2.9	7.9	6.2	1.3	.1		18.4	15.0	23.6	20.0	15.8	13.3
SW	2.0	4.0	2.3	.6	.0		9.0	13.1	12.3	3.4	5.1	13.4
W	2.3	1.7	.1	.1	.0		4.1	7.7	3.6	1.1	3.6	8.0
NW	2.4	2.5	.4	.0	.0		5.2	7.8	6.7	1.3	2.8	9.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.0	2.5	1.0	3.2	3.3
TOT OBS	397	644	259	38	2	1340		11.2	360	396	190	394
TOT PCT	29.6	48.1	19.3	2.8	.1		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.5	8.1	45.3	34.7	6.4	2.8	.3	11.4	100.0	360
06&09	1.0	5.1	45.7	39.6	7.1	1.5	.0	11.9	100.0	396
12&15	3.2	5.3	47.9	33.7	9.5	.5	.0	11.4	100.0	190
18&21	3.3	8.4	52.0	31.0	4.8	.5	.0	10.1	100.0	394
TOT	32	92	640	468	88	19	1	11.2		1340
PCT	2.4	6.9	47.8	34.9	6.6	1.4	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.2	2.7	3.7	.8		2.7
NE	6.1	2.0	3.9	.9		3.3
E	2.6	1.7	2.9	1.1		4.2
SE	3.8	5.0	10.4	3.7		5.1
S	4.4	4.6	6.8	3.9		4.8
SW	4.7	2.1	2.0	.7		3.1
W	2.2	.2	.6	.7		3.2
NW	3.5	.7	.6	.3		2.3
VAR	.0	.0	.0	.0		.0
CALM	1.4	.0	.6	.3		3.2
TOT OBS	131	68	112	44	355	3.9
TOT PCT	36.9	19.2	31.5	12.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	1.0	.5	.0	.0	.3	.2	13.5	
NE	.0	.0	.3	1.7	.6	.1	.0	.0	.0	.1	10.3	
E	.0	.0	.2	1.1	1.3	.0	.0	.0	.0	.0	5.7	
SE	.0	.0	.1	2.3	4.9	3.2	.6	.0	.0	.0	12.0	
S	.0	.0	.0	1.6	4.4	1.5	.5	.3	.3	.0	11.3	
SW	.0	.0	.0	.4	.3	.7	.4	.0	.0	.0	7.8	
W	.0	.0	.0	.2	.2	.3	.0	.0	.0	.0	3.0	
NW	.0	.0	.0	.0	.1	.3	.0	.0	.0	.0	4.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.3	.3	.0	.0	.0	.3	1.4	
TOT OBS	0	0	2	26	46	24	5	1	2	2	247	355
TOT PCT	.0	.0	.6	7.3	13.0	6.8	1.4	.3	.6	.6	69.6	100.0

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 >50YD	= OR >0
= OR >6500	.8	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >5000	.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >3500	1.6	2.7	2.7	2.7	2.7	2.7	2.7	2.7
= OR >2000	7.7	9.6	9.6	9.6	9.6	9.6	9.6	9.6
= OR >1000	18.1	22.3	22.3	22.5	22.5	22.5	22.5	22.5
= OR >600	23.4	28.8	29.4	29.7	29.7	29.7	29.7	29.7
= OR >300	23.6	29.4	29.9	30.2	30.2	30.2	30.2	30.2
= OR >150	23.6	29.4	29.9	30.2	30.2	30.2	30.2	30.2
= OR > 0	23.6	29.4	29.9	30.2	30.2	30.2	30.2	30.2
TOTAL	86	107	109	110	110	110	110	110

TOTAL NUMBER OF OBS: 364

PCT FREQ NH <5/8: 69.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
14.3	16.3	18.5	10.0	9.0	5.3	8.5	9.0	9.3	.0	400

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.3	.0	.1	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.3	.1	.1	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.5	.1	.2	.0	.0	.0	.0	.0	.8	
1<2	PCP	.1	.0	.0	.3	.0	.0	.0	.1	.0	.0	.4	
	NO PCP	.4	.2	.1	.0	.3	.0	.1	.0	.0	.0	1.2	
	TOT %	.5	.2	.1	.3	.3	.0	.1	.1	.0	.0	1.5	
2<5	PCP	.0	.3	.1	.3	.1	.1	.0	.0	.0	.0	.8	
	NO PCP	.1	.0	.0	.3	.3	.4	.0	.0	.0	.0	1.0	
	TOT %	.1	.3	.1	.5	.3	.4	.0	.0	.0	.0	1.8	
5<10	PCP	.3	.6	.8	.5	.8	1.2	.2	.2	.0	.0	4.6	
	NO PCP	4.9	3.3	5.8	4.6	5.9	1.3	1.2	1.7	.0	.3	28.9	
	TOT %	5.1	3.9	6.6	5.1	6.7	2.5	1.4	1.9	.0	.3	33.5	
10+	PCP	.0	.1	.3	.7	.6	.4	.1	.0	.0	.0	2.2	
	NO PCP	9.7	8.7	6.3	12.2	11.6	5.1	2.5	3.5	.0	.9	60.2	
	TOT %	9.7	8.8	6.6	12.9	12.1	5.5	2.6	3.5	.0	.9	62.4	
	TOT OBS												782
	TOT PCT	15.4	13.1	13.9	18.8	19.6	8.4	4.2	5.4	.0	1.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.1	.0	.0	.0	.0	.0		.1	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.1	.1	.0	.0	.0	.0		.3	
	11-21	.0	.0	.3	.1	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	TOT %	.0	.0	.5	.1	.2	.0	.0	.0	.0	.0	.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.1	.1	.0	.1	.0	.1	.1	.0		.7	
	11-21	.2	.1	.0	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.2	.1	.0	.0	.0	.0		.3	
	TOT %	.4	.2	.1	.2	.2	.0	.1	.1	.0	.0	1.3	
2<5	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	4-10	.1	.2	.0	.1	.1	.4	.1	.0	.0		.9	
	11-21	.0	.0	.2	.3	.1	.2	.0	.0	.0		.7	
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	TOT %	.1	.2	.2	.5	.4	.6	.1	.0	.0	.0	2.0	
5<10	0-3	.5	.3	.2	.5	.2	.1	.2	.2	.0	.3	2.4	
	4-10	2.6	2.4	3.7	2.1	1.5	.5	.7	.9	.0		14.4	
	11-21	.9	1.1	1.9	1.6	3.3	.8	.2	.4	.0		10.2	
	22+	.3	.0	.2	.6	1.3	.9	.1	.0	.0		3.4	
	TOT %	4.3	3.7	5.9	4.8	6.3	2.3	1.2	1.5	.0	.3	30.5	
10+	0-3	.4	.6	.9	.6	.2	.2	.6	.9	.0	.9	5.4	
	4-10	4.7	5.0	4.6	5.3	4.1	2.5	1.8	2.5	.0		30.5	
	11-21	3.8	3.2	2.2	6.5	5.7	2.3	.3	.7	.0		24.9	
	22+	.4	.4	.2	1.3	1.8	.4	.1	.0	.0		4.6	
	TOT %	9.4	9.1	7.9	13.7	11.9	5.6	2.8	4.1	.0	.9	65.3	
	TOT OBS												949
	TOT PCT	14.4	13.2	14.6	19.4	18.9	8.5	4.1	5.6	.0	1.3	100.0	

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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
00&03	.0	.0	.0	3.2	12.9	8.1	1.6	.0	.8	.8	27.4	72.6	124
06&09	.0	.0	2.0	9.1	16.2	7.1	1.0	.0	.0	1.0	36.4	63.6	99
12&15	.0	.0	.0	10.7	9.3	4.0	.0	.0	.0	.0	24.0	76.0	75
18&21	.0	.0	.0	6.0	9.5	6.0	2.4	1.2	1.2	.0	26.2	73.8	84
TOT	0	0	2	26	47	25	5	1	2	2	110	272	382
PCT	.0	.0	.5	6.8	12.3	6.5	1.3	.3	.5	.5	28.8	71.2	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
00&03	.0	.8	2.3	1.9	23.8	71.2	260
06&09	.0	.4	.4	1.4	36.7	61.2	278
12&15	.7	1.4	1.4	3.4	25.0	68.2	148
18&21	.3	1.0	1.0	2.1	33.2	62.3	292
TOT	2	8	12	20	298	638	978
PCT	.2	.8	1.2	2.0	30.5	65.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	5.0	24.2	70.8	120
06&09	.0	2.1	11.5	26.0	62.5	96
12&15	.0	.0	14.1	14.1	71.8	71
18&21	.0	.0	7.8	22.1	70.1	77
TOT	0	2	33	81	250	364
PCT	.0	.5	9.1	22.3	68.7	100.0

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
80/84	.0	.0	.0	.4	1.9	1.2	.2	.0	18	3.7
75/79	.0	.0	.2	2.1	6.4	17.7	10.3	2.3	189	38.9
70/74	.0	.0	.2	3.5	12.8	16.7	14.2	5.1	255	52.5
65/69	.0	.0	.0	.0	.4	1.0	2.7	.8	24	4.9
TOTAL	0	0	2	29	104	178	133	40	486	100.0
PCT	.0	.0	.4	6.0	21.4	36.6	27.4	8.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.2	.7	.4	.1	.5	.5	.0	.0	.0	.4
8.7	6.2	4.7	6.8	6.2	1.9	1.1	2.7	.0	.6
4.8	5.7	4.4	13.2	12.6	5.6	2.5	2.8	.0	.8
.1	.1	.1	.2	1.9	1.6	.6	.4	.0	.0
14.9	12.7	9.6	20.3	21.1	9.6	4.2	5.9	.0	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	82	81	80	75	70	65	63	74.8	350
06&09	85	83	80	75	68	64	61	74.5	387
12&15	79	78	76	73	69	64	59	73.2	190
18&21	80	79	77	73	67	65	64	72.4	401
TOT	85	81	79	74	68	64	59	73.8	1328

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	6.8	23.0	38.5	23.6	8.1	75	148
06&09	.0	9.2	24.8	42.6	19.9	3.5	73	141
12&15	.0	4.9	24.4	37.8	28.0	4.9	75	82
18&21	.0	2.9	11.8	27.2	39.0	19.1	80	136
TOT	0	31	105	185	139	47	76	507

MARCH

AREA 0006 COFFS HARBOUR
30.3S 153.2E

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1876-1972

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA THP DIF	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.1	.0	1	.0	.1
7/8	.0	.0	.0	.3	.0	2	.0	.3
6	.0	.0	.0	.0	.3	2	.0	.3
5	.0	.1	.3	.6	.6	11	.0	1.5
4	.0	.3	.7	1.7	.3	21	.0	2.9
3	.0	.0	.4	1.3	.1	13	.0	1.8
2	.0	.8	1.8	3.1	.4	44	.4	5.7
1	.0	.8	2.4	2.9	.0	44	.1	6.0
0	.3	1.3	8.2	2.9	.0	91	.1	12.5
-1	.1	1.5	6.0	2.9	.1	77	.4	10.3
-2	.6	4.2	10.3	1.3	.0	117	.0	16.3
-3	.1	4.0	7.2	.0	.0	82	.0	11.4
-4	.6	5.0	5.6	.3	.0	82	.0	11.4
-5	.8	3.2	3.1	.0	.3	53	.0	7.4
-6	.7	2.5	1.7	.1	.0	36	.0	5.0
-7/-8	.6	2.9	1.0	.0	.0	32	.0	4.5
-9/-10	.4	.7	.1	.0	.0	9	.0	1.3
-11/-13	.1	.0	.0	.0	.0	1	.0	.1
TOTAL	31	197	350	125	16	719	8	711
PCT	4.3	27.4	48.7	17.4	2.2	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.3	1.6	1.9	.0	.0	.0	3.8
3-4	.0	1.9	3.2	.7	.0	.0	5.9
5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.4	.4	.0	.0	.0	.7
8-9	.0	.4	.6	.0	.0	.0	1.0
10-11	.0	.0	.0	.0	.4	.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
TOT PCT	.3	5.1	7.4	.7	.4	.0	13.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	2.0	.9	.0	.0	.0	2.9
3-4	.0	.8	2.4	.0	.0	.0	3.2
5-6	.0	.4	2.0	.4	.0	.0	2.7
7	.0	.0	1.1	.4	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	4.2	6.4	.7	.0	.0	11.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	1.7	.0	.0	.0	.0	1.7
3-4	.0	.9	.7	.0	.0	.0	1.6
5-6	.0	.0	2.1	.0	.0	.0	2.1
7	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	3.9	3.9	.0	.0	.0	7.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.1	.0	.0	.0	.5
1-2	.4	2.4	1.0	.0	.0	.0	3.8
3-4	.0	2.4	4.9	.7	.0	.0	8.0
5-6	.0	.5	3.3	1.2	.0	.0	5.0
7	.0	.0	1.8	1.5	.0	.0	3.3
8-9	.0	.0	.7	.1	.0	.0	.8
10-11	.0	.0	.0	.0	.4	.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
TOT PCT	.4	5.8	11.8	3.5	.4	.0	21.8

MARCH

PERIOD: (OVER-ALL) 1963-1972

AREA 0006 COFFS HARBOUR
30.3S 153.2E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.4	.3	.0	.0	.0	2.0	.1	1.3	.0	.0	.0	.0	1.4
1-2	.0	1.1	1.2	.0	.0	.0	2.3	.0	.9	1.8	.0	.0	.0	2.7
3-4	.0	1.3	3.8	.4	.0	.0	5.4	.0	.5	2.2	.0	.0	.0	2.6
5-6	.0	1.6	4.2	1.0	.4	.0	7.2	.0	.5	2.0	.1	.0	.0	2.5
7	.0	.0	1.7	1.6	.0	.0	3.3	.0	.0	.5	.8	.4	.0	1.6
8-9	.0	.0	.6	.5	.0	.0	1.2	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.4	.4	.0	.0	.7	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
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
TOT PCT	.4	5.3	12.2	4.2	.4	.0	22.5	.1	3.1	6.5	1.7	.4	.0	11.7

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.6	.6	.0	.0	.0	.0	1.3	.0	.7	.0	.0	.0	.0	.7	
1-2	.4	.9	.6	.0	.0	.0	1.9	.1	1.6	.5	.0	.0	.0	2.3	
3-4	.0	.3	.0	.0	.0	.0	.3	.0	.3	.5	.0	.0	.0	.7	
5-6	.0	.4	.3	.3	.0	.0	.9	.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	.5	.0	.0	.0	.5	
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	
TOT PCT	1.0	2.2	.9	.3	.0	.0	4.3	.1	2.6	1.4	.0	.0	.0	4.2	97.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.3	7.5	.4	.0	.0	.0	12.1	
1-2	1.4	12.1	7.9	.0	.0	.0	21.4	
3-4	.0	8.2	17.5	1.8	.0	.0	27.5	
5-6	.0	3.2	15.0	2.9	.4	.0	21.4	
7	.0	.4	6.1	4.3	.4	.0	11.1	
8-9	.0	.4	2.9	.7	.0	.0	3.9	
10-11	.0	.0	.4	.7	.7	.0	1.8	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.4	.0	.0	.4	
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	
								280
TOT PCT	5.7	31.8	50.0	11.1	1.4	.0	100.0	

PERIOD: (OVER-ALL) 1950-1972

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	4.9	10.6	4.0	3.1	.9	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	4
6-7	.0	1.1	8.0	14.6	5.4	2.0	2.3	1.1	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	124	6
8-9	.0	.0	1.7	2.6	5.7	5.7	2.6	1.4	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	72	8
10-11	.0	.0	.6	1.7	.9	1.1	1.7	1.1	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	8
12-13	.0	.0	.0	.3	.3	.0	.3	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	10
>13	.0	.0	.0	.9	.6	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	7
INDET	.6	.6	1.7	1.4	.6	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	4
TOTAL	13	23	79	89	58	35	26	14	12	1	0	0	0	0	0	0	0	0	0	350	6
PCT	3.7	6.6	22.6	25.4	16.6	10.0	7.4	4.0	3.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1914-1970
(OVER-ALL) 1858-1970

AREA 0006 COFFS HARBOUR
30.3S 153.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.5	1.0	.0	.0	.0	.0	.0	1.5	1.0	4.1	.0	.0	1.0	.0		92.4
NE	10.7	1.4	.7	.0	.0	.0	.0	12.8	1.4	2.8	.0	.0	.0	.0		82.9
E	6.5	9.4	2.7	.0	.0	.0	.0	18.6	.9	.0	.0	.0	.0	.0		80.5
SE	5.6	12.2	.2	.0	.0	.0	.0	18.0	1.7	.4	.0	.0	.0	.0		80.2
S	7.2	11.1	.0	.0	.0	.0	.0	18.2	2.5	1.4	.5	.0	2.1	.0		75.6
SW	4.7	1.4	.4	.0	.0	.0	.0	6.5	2.4	2.0	.0	.0	.0	.0		89.1
W	2.0	3.3	2.0	.0	.0	.0	.0	7.3	1.3	5.0	.0	.0	.0	.0		86.3
NW	.8	2.4	.0	.0	.0	.0	.0	3.3	.0	3.7	.0	.0	.0	.0		93.1
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	.0	.0		100.0
TOT PCT	5.0	6.2	.6	.0	.0	.0	.0	11.7	1.6	2.1	.1	.0	.6	.0		84.0
TOT OBS:	861															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.4	6.7	.0	.0	.0	.0	.0	10.1	1.7	.0	.0	.0	.8	.0		87.4
06&09	4.0	5.8	.4	.0	.0	.0	.0	10.2	2.2	.7	.4	.0	.7	.0		85.8
12&15	9.6	7.5	.7	.0	.0	.0	.0	17.8	1.4	4.8	.0	.0	.0	.0		76.0
18&21	5.6	6.5	1.3	.0	.0	.0	.0	13.4	.9	4.3	.0	.0	.4	.0		81.5
TOT PCT	5.2	6.5	.6	.0	.0	.0	.0	12.2	1.6	2.1	.1	.0	.6	.0		83.5
TOT OBS:	891															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	6.5	3.4	.3	.1	*		11.5	9.7	7.4	11.7	12.0	15.2	16.3	16.1	10.9	6.3
NE	.8	5.5	2.4	.6	.5	*		9.9	11.5	4.8	8.7	17.2	10.0	11.1	10.5	6.9	7.1
E	.7	5.0	2.6	.8	*	.0		9.1	11.0	2.1	8.4	12.7	13.0	10.8	7.7	6.4	9.5
SE	.8	6.0	6.6	1.6	.1	.0		15.2	12.8	12.4	13.6	17.5	23.4	20.5	19.0	10.6	9.7
S	.4	5.8	10.2	3.7	.7	*		20.8	15.5	25.2	24.5	27.2	21.3	17.0	15.7	16.5	13.8
SW	.6	5.2	7.4	2.3	.2	*		15.8	13.8	27.9	13.1	6.3	7.3	14.9	12.5	23.3	25.6
W	1.4	4.6	2.3	.3	.0	.0		8.6	8.8	7.9	8.5	2.1	5.7	3.1	9.3	13.4	15.6
NW	.6	5.2	1.7	*	.0	.0		7.6	8.2	10.7	10.3	3.3	2.7	2.1	7.7	9.9	11.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0	1.7	1.3	.8	1.4	4.2	1.6	2.1	1.0
TOT OBS	105	587	489	130	23	2	1336		12.0	121	233	260	140	72	124	191	195
TOT PCT	7.9	43.9	36.6	9.7	1.7	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.4	5.9	1.0	.1	.1		11.5	9.7	10.2	13.1	16.2	8.5
NE	3.5	4.7	.9	.7	.1		9.9	11.5	7.3	14.7	10.7	7.0
E	2.4	5.0	1.4	.3	.0		9.1	11.0	6.2	12.8	8.8	8.0
SE	3.0	7.7	3.7	.8	.0		15.2	12.8	13.2	19.6	19.5	10.2
S	2.0	10.4	6.8	1.6	.1		20.8	15.5	24.7	25.1	16.2	15.2
SW	3.3	7.2	4.5	.7	.1		15.8	13.8	18.1	6.6	13.4	24.5
W	3.7	3.8	1.0	.1	.0		8.6	8.8	8.3	4.0	7.0	14.5
NW	3.3	3.8	.4	.0	.0		7.6	8.2	10.5	3.1	5.6	10.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	1.4	1.0	2.6	1.6
TOT OBS	361	648	264	57	6	1336		12.0	354	400	196	386
TOT PCT	27.0	48.5	19.8	4.3	.4		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1914-1970
(OVER-ALL) 1858-1970

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.4	7.1	41.5	38.4	8.5	2.5	.6	12.3	100.0	354
06&09	1.0	5.0	44.8	36.0	11.5	1.8	.0	12.4	100.0	400
12&15	2.6	4.6	44.9	35.7	10.7	1.5	.0	12.0	100.0	196
18&21	1.6	8.0	44.8	36.0	8.5	1.0	.0	11.2	100.0	386
TOT	20	85	587	489	130	23	2	12.0		1336
PCT	1.5	6.4	43.9	36.6	9.7	1.7	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.6	1.3	4.0	.7		2.8
NE	5.3	1.0	2.3	1.0		3.2
E	3.0	.8	3.6	1.0		4.4
SE	3.4	2.5	7.1	2.2		4.6
S	5.1	5.7	5.9	6.6		4.9
SW	8.1	3.5	4.2	1.8		3.4
W	2.5	.8	.0	1.0		2.9
NW	3.8	.7	.7	.4		2.5
VAR	.0	.0	.0	.0		.0
CALM	1.2	.6	.3	.0		1.8
TOT OBS	134	57	94	50	335	3.8
TOT PCT	40.0	17.0	28.1	14.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.5	.5	.4	.0	.0	.3	.3	11.6	
NE	.0	.0	.0	.8	1.3	.3	.0	.0	.0	.3	6.9	
E	.0	.0	.0	.9	.6	1.2	.3	.0	.0	.0	5.4	
SE	.0	.0	.0	1.4	3.7	1.3	.7	.0	.0	.0	8.2	
S	.0	.0	.0	2.8	4.0	1.9	.5	.2	.0	.0	13.9	
SW	.0	.0	.0	1.3	2.1	1.0	.0	.1	.0	.0	13.2	
W	.0	.0	.0	.0	.4	.3	.0	.0	.0	.0	3.6	
NW	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	3.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	
TOT OBS	0	0	0	26	42	22	5	1	1	2	236	335
TOT PCT	.0	.0	.0	7.8	12.5	6.6	1.5	.3	.3	.6	70.4	100.0

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 >5OYD	= OR >0
= OR >6500	.9	.9	.9	.9	.9	.9	.9	.9
= OR >5000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
= OR >3500	2.1	2.4	2.4	2.4	2.4	2.4	2.4	2.4
= OR >2000	7.1	8.8	9.1	9.1	9.1	9.1	9.1	9.1
= OR >1000	15.9	20.9	21.8	21.8	21.8	21.8	21.8	21.8
= OR >600	20.3	27.9	29.4	29.4	29.7	29.7	29.7	29.7
= OR >300	20.3	27.9	29.4	29.4	29.7	29.7	29.7	29.7
= OR >150	20.3	27.9	29.4	29.4	29.7	29.7	29.7	29.7
= OR > 0	20.3	27.9	29.4	29.4	29.7	29.7	29.7	29.7
TOTAL	69	95	100	100	101	101	101	101

TOTAL NUMBER OF OBS: 340 PCT FREQ NH <5/8: 70.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
14.9	23.1	12.7	11.2	8.4	6.5	5.7	8.4	9.2	.0	403

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.2	
1<2	PCP	.0	.0	.0	.2	.1	.1	.1	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.2	.2	.1	.1	.0	.0	.0	.6	
2<5	PCP	.0	.2	.1	.0	.5	.2	.0	.0	.0	.0	.9	
	NO PCP	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.6	
	TOT %	.0	.2	.1	.0	.8	.4	.0	.0	.0	.0	1.5	
5<10	PCP	.2	.4	1.6	2.1	2.8	.5	.5	.1	.0	.0	8.2	
	NO PCP	3.0	2.4	2.8	4.4	6.4	3.2	3.7	2.8	.0	.3	29.2	
	TOT %	3.1	2.8	4.4	6.6	9.2	3.7	4.2	3.0	.0	.3	37.4	
10+	PCP	.0	.3	.2	.3	.6	.2	.0	.1	.0	.0	1.9	
	NO PCP	8.3	4.7	5.2	7.9	11.4	11.5	4.4	4.0	.0	1.0	58.4	
	TOT %	8.3	5.0	5.4	8.2	12.0	11.7	4.4	4.2	.0	1.0	60.3	
	TOT OBS												841
	TOT PCT	11.4	8.2	9.8	15.0	22.3	16.0	8.7	7.1	.0	1.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2.	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.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	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.1	.0	.1	.1	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.1	.0	.1	.0	.0		.2	
	11-21	.0	.0	.0	.1	.1	.1	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.2	.1	.1	.0	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.1	.3	.1	.0	.0	.0		.6	
	11-21	.1	.3	.1	.1	.6	.4	.0	.0	.0		1.4	
	22+	.0	.1	.1	.0	.2	.1	.0	.0	.0		.3	
	TOT %	.1	.4	.2	.2	1.0	.5	.0	.0	.0	.0	2.3	
5<10	0-3	.2	.3	.2	.3	.2	.3	1.0	.3	.0	.3	3.0	
	4-10	1.8	1.7	1.9	2.1	2.6	1.0	2.6	1.8	.0		15.5	
	11-21	.5	.6	1.2	3.4	3.8	1.9	.5	.6	.0		12.4	
	22+	.3	.1	.6	.6	1.7	.2	.0	.0	.0		3.5	
	TOT %	2.8	2.8	3.9	6.4	8.2	3.3	4.1	2.7	.0	.3	34.4	
10+	0-3	.7	.5	.5	.5	.2	.3	.7	.4	.0	1.1	4.9	
	4-10	3.9	3.3	3.6	4.2	2.7	4.5	2.3	3.4	.0		27.9	
	11-21	3.4	1.2	1.7	3.8	6.4	4.7	1.7	1.1	.0		24.1	
	22+	.2	.1	.0	.3	2.8	2.2	.2	.1	.0		5.7	
	TOT %	8.2	5.1	5.9	8.8	12.0	11.8	4.8	5.0	.0	1.1	62.6	
	TOT OBS												981
	TOT PCT	11.0	8.4	9.9	15.5	21.5	15.7	9.0	7.6	.0	1.4	100.0	

APRIL

PERIOD: (PRIMARY) 1914-1970
(OVER-ALL) 1858-1970

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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
00&03	.0	.0	.0	6.3	9.4	7.1	1.6	.8	.0	.8	26.0	74.0	127
06&09	.0	.0	.0	5.6	10.3	3.2	.8	.0	.8	.8	21.4	78.6	126
12&15	.0	.0	.0	6.0	13.4	7.5	3.0	.0	.0	.0	29.9	70.1	67
18&21	.0	.0	.0	12.3	13.8	7.7	.0	.0	.0	.0	33.8	66.2	65
TOT	0	0	0	27	43	23	5	1	1	2	102	283	385
PCT	.0	.0	.0	7.0	11.2	6.0	1.3	.3	.3	.5	26.5	73.5	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
00&03	.0	.4	.8	2.7	25.3	70.9	261
06&09	.0	.3	.0	3.0	35.1	61.6	305
12&15	.6	.0	.6	1.8	39.0	57.9	164
18&21	.0	.0	.7	2.1	42.7	54.4	281
TOT	1	2	5	25	357	621	1011
PCT	.1	.2	.5	2.5	35.3	61.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.9	9.7	20.4	69.9	113
06&09	.0	.0	7.3	18.2	74.5	110
12&15	.0	.0	8.5	23.7	67.8	59
18&21	.0	.0	13.8	24.1	62.1	58
TOT	0	1	32	71	237	340
PCT	.0	.3	9.4	20.9	69.7	100.0

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
85/89	.0	.0	.2	.0	.0	.0	.0	.0	1	.2
80/84	.0	.0	.0	.5	.5	.2	.3	.0	9	1.5
75/79	.0	.0	.2	2.2	5.2	5.7	1.9	.5	93	15.7
70/74	.0	.0	1.0	5.6	13.3	16.8	10.6	3.9	304	51.2
65/69	.0	.8	.5	1.3	3.7	5.9	9.4	5.2	160	26.9
60/64	.0	.3	.3	.2	.5	.5	1.5	.8	25	4.2
55/59	.0	.0	.2	.0	.0	.0	.2	.0	2	.3
TOTAL	0	7	14	58	138	173	142	62	594	100.0
PCT	.0	1.2	2.4	9.8	23.2	29.1	23.9	10.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
80/84	.8	.4	.0	.0	.2	.0	.0	.2	.0	.0
75/79	3.4	2.7	1.6	2.4	2.7	1.2	.7	.9	.0	.2
70/74	5.0	5.3	7.0	9.5	11.3	5.9	2.4	3.7	.0	1.0
65/69	1.8	.7	1.7	2.9	7.0	6.5	4.3	1.6	.0	.3
60/64	.0	.0	.0	.2	.4	2.6	.9	.2	.0	.0
55/59	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0
TOTAL	11.1	9.1	10.3	15.0	21.7	16.4	8.3	6.6	.0	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	81	80	78	72	66	62	58	71.9	348
06&09	86	82	79	72	65	63	57	71.9	396
12&15	79	78	75	71	64	62	59	70.1	201
18&21	87	76	75	69	63	59	57	69.1	388
TOT	87	80	77	71	64	60	57	70.8	1333

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	17.6	24.2	26.9	21.4	9.9	72	182
06&09	.0	17.2	28.0	28.0	20.4	6.5	71	186
12&15	.0	9.8	25.0	33.7	17.4	14.1	74	92
18&21	.0	4.5	14.2	31.0	34.8	15.5	78	155
TOT	0	80	141	180	147	67	74	615

PERIOD: (PRIMARY) 1914-1970
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	WO FOG
11/13	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
7/8	.0	.0	.0	.0	.1	.5	.0	.0	5	.0	.6
6	.0	.0	.0	.0	.1	.1	.1	.1	4	.0	.5
5	.0	.0	.0	.1	.1	.3	.3	.0	6	.0	.8
4	.0	.0	.1	.0	.5	.4	.1	.0	9	.0	1.2
3	.0	.0	.4	.3	1.8	.6	.3	.0	26	.0	3.3
2	.0	.0	.1	.5	2.8	1.0	.1	.0	36	.0	4.6
1	.0	.0	.4	.6	2.6	1.2	.0	.0	37	.0	4.8
0	.0	.0	.8	3.6	3.6	.9	.0	.0	69	.0	8.9
-1	.0	.0	1.0	3.3	4.8	1.0	.0	.0	79	.0	10.2
-2	.0	.1	1.2	6.3	3.9	.4	.0	.0	92	.0	11.8
-3	.0	.4	1.9	4.5	3.0	.0	.0	.0	76	.1	9.6
-4	.0	.4	2.6	7.7	2.6	.0	.0	.0	103	.0	13.2
-5	.1	.5	3.0	3.6	1.0	.1	.0	.0	65	.0	8.4
-6	.0	.4	2.4	4.2	.3	.0	.0	.0	57	.0	7.3
-7/-8	.3	1.3	3.5	2.2	.1	.0	.0	.0	57	.0	7.3
-9/-10	.3	1.3	2.2	.9	.0	.0	.0	.0	36	.0	4.6
-11/-13	.4	.8	.9	.0	.0	.0	.0	.0	16	.0	2.1
-14/-16	.0	.3	.1	.0	.0	.0	.0	.0	3	.0	.4
-17/-19	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	9	42	160	295	213	51	7	1	778	1	777
PCT	1.2	5.4	20.6	37.9	27.3	6.6	.9	.1	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.8	.0	.0	.0	.0	2.1
1-2	.0	2.5	.4	.0	.0	.0	2.9
3-4	.4	1.7	2.1	.0	.0	.0	4.1
5-6	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.7	6.0	4.3	.0	.0	.0	11.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.6	.0	.0	.0	.0	1.7
1-2	.0	3.2	1.1	.0	.0	.0	4.3
3-4	.0	1.8	.8	.0	.0	.0	2.5
5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.1	6.6	3.6	.0	.0	.0	10.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	2.7	.4	.0	.0	.0	3.1
3-4	.0	1.4	1.6	.0	.0	.0	3.0
5-6	.0	.0	.8	.0	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.4	.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
TOT PCT	.0	5.3	2.7	.4	.0	.0	8.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.0	.0	.0	.0	.8
1-2	.4	1.9	.8	.0	.0	.0	3.1
3-4	.0	3.9	2.4	.1	.0	.0	6.5
5-6	.0	1.1	3.6	.0	.0	.0	4.7
7	.0	.0	.0	.4	.4	.0	.8
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.4	.4	.0	.0	.8
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
TOT PCT	.8	7.3	7.2	1.2	.4	.0	16.9

PERIOD: (OVER-ALL) 1963-1970

APRIL

TABLE 18 (CONT)

AREA 0006 COFFS HARBOUR
30.3S 153.3E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.5	2.8	.0	.0	.0	5.4
3-4	.0	1.4	2.8	1.3	.0	.0	5.5
5-6	.0	.4	2.6	2.9	.0	.0	5.9
7	.0	.0	.8	1.0	.0	.0	1.8
8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.4	1.4	.0	.0	1.8
12	.0	.0	.4	.8	.7	.0	1.8
13-16	.0	.0	.0	.0	.8	.0	.8
17-19	.0	.0	.0	.0	.4	.0	.4
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
TOT PCT	.0	4.3	10.2	7.4	1.8	.0	23.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	2.6	2.3	.0	.0	.0	5.0
3-4	.0	2.5	2.1	1.2	.0	.0	5.8
5-6	.0	.1	2.1	.5	.0	.0	2.6
7	.0	.0	.4	1.6	.0	.0	2.0
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.1	.4	.0	.5
12	.0	.0	.0	.0	.1	.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
TOT PCT	.0	6.4	6.9	3.8	.5	.0	17.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.4	2.0	.3	.0	.0	.0	2.6
3-4	.0	.0	.7	.0	.0	.0	.7
5-6	.0	.3	.0	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	3.4	.9	.0	.0	.0	4.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	
1-2	.0	2.4	.1	.0	.0	.0	2.5	
3-4	.0	.4	.4	.0	.0	.0	.8	
5-6	.0	.0	.2	.0	.0	.0	.2	
7	.0	.4	.0	.0	.0	.0	.4	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	.0	4.3	.7	.0	.0	.0	5.0	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.4	8.2	.0	.0	.0	.0	11.6	
1-2	1.1	19.9	8.2	.0	.0	.0	29.2	
3-4	.4	13.1	12.7	2.6	.0	.0	28.8	
5-6	.0	1.9	12.0	3.4	.0	.0	17.2	
7	.0	.4	1.9	3.0	.4	.0	5.6	
8-9	.0	.0	.4	.7	.0	.0	1.1	
10-11	.0	.0	.7	2.2	.4	.0	3.4	
12	.0	.0	.4	.7	.7	.0	1.9	
13-16	.0	.0	.0	.0	.7	.0	.7	
17-19	.0	.0	.0	.0	.4	.0	.4	
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	
								267
TOT PCT	4.9	43.4	36.3	12.7	2.6	.0	100.0	

PERIOD: (OVER-ALL) 1949-1970

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	.9	6.7	11.3	5.2	2.3	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	94	4
6-7	.0	1.2	7.6	7.3	6.7	1.7	1.5	1.2	1.5	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	6
8-9	.0	1.2	3.2	6.1	6.7	4.9	2.6	.9	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	7
10-11	.0	.6	.6	.3	1.2	.6	1.2	1.7	.6	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	29	10
12-13	.0	.0	.0	.0	.6	.0	.3	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	10
>13	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3	.0	.6	.0	.0	.0	.0	.0	.0	4	24
INDET	1.2	.3	2.0	.6	1.5	.3	.3	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	22	5
TOTAL	7	34	85	67	65	26	23	15	14	3	1	0	4	0	0	0	0	0	0	344	6
PCT	2.0	9.9	24.7	19.5	18.9	7.6	6.7	4.4	4.1	.9	.3	.0	1.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1857-1971

AREA 0006 COFFS HARBOUR
30.3S 153.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.4	3.6	.0	.0	.0	.0	.0	8.9	1.2	3.6	1.2	.0	.0	.0	86.3
NE	13.2	2.9	4.9	.0	.0	.0	.0	21.0	.0	2.0	2.0	.0	.0	.0	75.1
E	13.2	9.5	2.1	.0	.0	.0	.0	24.9	1.1	3.2	.0	.0	.0	.0	74.1
SE	3.7	3.7	.7	.0	.0	.0	.0	8.1	4.0	2.2	.0	.0	.4	.0	86.0
S	5.2	10.0	1.0	.0	.0	.0	.0	16.2	1.2	1.3	.0	.0	1.8	.0	79.8
SW	3.6	7.3	.0	.0	.0	.0	.0	10.9	1.3	1.7	.0	.0	.5	.0	85.7
W	4.4	.0	.0	.0	.0	.0	.0	4.4	.9	3.1	.0	.0	3.1	.0	89.6
NW	3.8	.0	.0	.0	.0	.0	.0	3.8	1.3	4.4	1.3	.0	1.9	.0	89.8
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	9.1	.0	.0	.0	.0	90.9
TOT PCT	5.4	5.6	.7	.0	.0	.0	.0	11.8	1.3	2.5	.4	.0	1.1	.0	83.8
TOT OBS:	815														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.5	4.5	.9	.0	.0	.0	.0	10.0	.9	.9	.0	.0	1.4	.0	87.3
06&09	5.3	4.9	.4	.0	.0	.0	.0	10.5	1.2	1.6	.8	.0	.4	.0	85.8
12&15	5.8	5.2	.6	.0	.0	.0	.0	11.6	1.9	5.2	.6	.0	.6	.0	80.6
18&21	7.2	7.7	1.4	.0	.0	.0	.0	16.3	1.4	3.3	.0	.0	1.9	.0	78.9
TOT PCT	5.6	5.5	.8	.0	.0	.0	.0	12.0	1.3	2.5	.4	.0	1.1	.0	83.5
TOT OBS:	832														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	5.3	3.7	.3	.0	.0		10.5	9.9	8.1	8.5	13.3	11.1	19.2	8.1	9.0	9.7
NE	.6	3.0	2.1	.3	.1	.0		6.1	10.9	6.0	6.7	8.2	9.1	5.8	5.0	3.8	3.5
E	.5	2.5	1.8	.7	.4	.0		5.9	13.6	4.6	5.6	5.5	8.3	9.3	5.8	6.3	4.1
SE	.5	4.0	3.8	1.2	.5	.0		10.0	13.5	2.9	9.4	13.4	17.1	6.1	11.6	8.8	6.8
S	.9	8.0	9.7	3.4	1.0	.0		23.0	14.7	18.1	23.8	34.8	29.7	23.3	16.9	13.5	18.4
SW	.8	10.0	8.5	3.5	.6	.0		23.4	13.8	34.4	26.9	15.9	12.8	17.2	23.4	26.9	29.2
W	.7	6.3	2.5	.7	.2	.0		10.2	10.7	14.0	8.0	2.7	6.8	6.1	15.9	16.4	15.4
NW	1.0	5.8	2.3	.1	*	.0		9.2	8.7	11.9	9.6	3.4	2.4	10.8	11.6	14.3	12.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0	.0	1.6	2.8	2.7	2.3	1.6	1.0	.5
TOT OBS	106	614	473	140	38	0	1371		12.4	120	254	251	148	86	129	198	185
TOT PCT	7.7	44.8	34.5	10.2	2.8	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.2	6.0	1.3	.1	.0		10.5	9.9	8.4	12.5	12.6	9.3
NE	1.7	3.2	1.0	.2	.0		6.1	10.9	6.5	8.5	5.3	3.7
E	1.5	2.4	1.3	.7	*		5.9	13.6	5.3	6.5	7.2	5.2
SE	2.3	4.9	1.9	.7	.1		10.0	13.5	7.3	14.8	9.4	7.8
S	4.1	10.0	6.8	1.7	.4		23.0	14.7	22.0	32.9	19.4	15.9
SW	3.6	12.3	5.9	1.5	.1		23.4	13.8	29.3	14.8	20.9	28.0
W	3.0	5.1	1.9	.3	.0		10.2	10.7	9.9	4.2	12.0	15.9
NW	3.4	4.9	.9	*	.0		9.2	8.7	10.4	3.0	11.3	13.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	1.1	2.8	1.9	.8
TOT OBS	335	669	287	71	9	1371		12.4	374	399	215	383
TOT PCT	24.4	48.8	20.9	5.2	.7		100.0		100.0	100.0	100.0	100.0

MAY

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.1	5.6	44.7	36.6	9.1	2.9	.0	12.4	100.0	374
06&09	2.8	6.8	43.1	32.8	12.0	2.5	.0	12.3	100.0	399
12&15	1.9	6.5	40.9	34.9	12.1	3.7	.0	13.1	100.0	215
18&21	.8	5.7	48.8	33.9	8.4	2.3	.0	12.0	100.0	383
TOT	22	84	614	473	140	38	0	12.4		1371
PCT	1.6	6.1	44.8	34.5	10.7	2.8	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.4	2.1	3.1	1.7		3.3
NE	1.5	.8	2.3	1.3		4.9
E	2.3	.1	3.1	1.3		4.8
SE	1.3	1.7	3.1	.9		4.8
S	8.2	3.9	7.7	4.4		4.3
SW	11.2	4.3	6.3	1.4		3.1
W	4.1	1.6	2.1	1.6		3.7
NW	3.5	1.5	2.5	1.1		3.8
VAR	.0	.0	.0	.0		.0
CALM	1.2	.0	.3	.3		3.0
TOT OBS	136	55	104	48	343	3.9
TOT PCT	39.7	16.0	30.3	14.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.6	.3	.4	.0	.3	.0	.6	10.9	
NE	.0	.0	.0	.7	1.6	.4	.0	.0	.0	.0	3.3	
E	.0	.0	.3	.2	1.8	.9	.0	.0	.0	.0	3.6	
SE	.0	.0	.0	.9	1.4	.9	.4	.0	.0	.0	3.4	
S	.0	.0	.5	1.4	3.6	2.3	.7	.0	.0	.0	13.6	
SW	.0	.0	.1	.7	1.8	1.4	.4	.0	.1	.0	18.7	
W	.0	.0	.0	.4	.0	.0	.3	.0	.8	.7	7.2	
NW	.0	.0	.0	.1	.9	.6	.0	.0	.3	.1	6.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
TOT OBS	0	0	3	17	40	24	6	1	4	5	243	343
TOT PCT	.0	.0	.9	5.0	11.7	7.0	1.7	.3	1.2	1.5	70.8	100.0

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 >500YD	= OR >0
= OR >6500	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
= OR >5000	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
= OR >3500	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
= OR >2000	9.5	11.2	11.2	11.2	11.2	11.2	11.2	11.2
= OR >1000	17.0	22.2	22.8	22.8	22.8	22.8	22.8	22.8
= OR >600	20.2	26.8	28.0	28.0	28.0	28.0	28.0	28.0
= OR >300	20.2	27.7	28.8	28.8	28.8	28.8	28.8	28.8
= OR >150	20.5	28.0	29.1	29.1	29.1	29.1	29.1	29.1
= OR > 0	20.5	28.0	29.1	29.1	29.1	29.1	29.1	29.1
TOTAL	71	97	101	101	101	101	101	101

TOTAL NUMBER OF OBS: 347 PCT FREQ NH <5/8: 70.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
13.3	22.0	18.2	9.5	6.1	6.4	11.0	3.1	10.5	.0	391

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.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	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.1	.3	.0	.0	.0	.1	.0	.1	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.4	.1	.1	.1	.0	.0	.6	
	TOT %	.1	.3	.0	.0	.4	.2	.1	.1	.0	.0	1.2	
2<5	PCP	.0	.4	.4	.1	.5	*	.1	.0	.0	.0	1.5	
	NO PCP	.0	.0	.0	.1	.3	*	.0	.0	.0	.0	.5	
	TOT %	.0	.4	.4	.2	.8	.1	.1	.0	.0	.0	2.0	
5<10	PCP	.6	.3	.7	.4	2.5	2.0	.1	.3	.0	.0	6.9	
	NO PCP	1.7	1.3	1.6	3.2	6.2	6.7	3.6	2.8	.0	.4	27.5	
	TOT %	2.3	1.6	2.3	3.7	8.7	8.7	3.7	3.1	.0	.4	34.4	
10+	PCP	.2	.4	.4	.1	1.2	.4	.2	.0	.0	.0	2.8	
	NO PCP	7.7	3.7	2.7	4.3	14.4	13.8	5.7	6.5	.0	1.0	59.6	
	TOT %	7.9	4.0	3.1	4.4	15.5	14.1	5.9	6.5	.0	1.0	62.5	
	TOT OBS												815
	TOT PCT	10.3	6.3	5.8	8.3	25.4	23.1	9.8	9.7	.0	1.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.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	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.1	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.0	.0	.3	.0	.1	.1	.0		.6	
	11-21	.0	.2	.0	.0	.1	.2	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.3	.0	.0	.4	.2	.1	.1	.0	.0	1.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.0	.2	.2	.2	.0	.0		.7	
	11-21	.0	.3	.2	.2	.6	.2	.0	.0	.0		1.4	
	22+	.0	.0	.1	.3	.2	*	.0	.0	.0		.5	
	TOT %	.0	.3	.4	.5	1.0	.4	.2	.0	.0	.0	2.6	
5<10	0-3	.7	.4	.3	.1	.4	.6	.2	.2	.0	.3	3.0	
	4-10	.8	.6	.8	1.2	2.5	2.6	2.1	1.7	.0		12.4	
	11-21	.3	.5	.5	1.6	2.6	3.2	.7	.6	.0		10.1	
	22+	.1	.1	.6	1.2	2.2	1.6	.2	*	.0		5.9	
	TOT %	1.9	1.6	2.2	4.1	7.7	8.0	3.2	2.5	.0	.3	31.4	
10+	0-3	.6	.3	.2	.4	.9	.4	.3	.9	.0	1.0	4.9	
	4-10	3.3	1.8	1.7	3.4	5.8	7.4	4.2	4.1	.0		31.7	
	11-21	3.7	1.3	.9	2.0	7.6	5.2	1.4	1.6	.0		23.6	
	22+	.3	.3	.3	.4	1.5	1.4	.4	*	.0		4.5	
	TOT %	7.8	3.7	3.1	6.2	15.8	14.3	6.2	6.6	.0	1.0	64.8	
	TOT OBS												993
	TOT PCT	9.8	5.9	5.6	10.7	24.8	22.9	9.7	9.2	.0	1.3	100.0	

MAY

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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
00&03	.0	.9	.9	1.7	7.8	7.0	1.7	.0	.9	1.7	22.6	77.4	115
06&09	.0	.0	.8	5.9	14.4	3.4	3.4	.0	.0	1.7	29.7	70.3	118
12&15	.0	.0	1.2	7.4	11.1	9.9	.0	.0	2.5	.0	32.1	67.9	81
18&21	.0	.0	.0	5.2	8.6	6.9	.0	1.7	1.7	1.7	25.9	74.1	58
TOT	0	1	3	18	40	24	6	1	4	5	102	270	372
PCT	.0	.3	.8	4.8	10.8	6.5	1.6	.3	1.1	1.3	27.4	72.6	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
00&03	.0	.0	1.2	1.9	22.1	74.8	258
06&09	.0	.3	.3	2.0	32.6	64.8	298
12&15	.0	.0	1.1	2.9	30.9	65.1	175
18&21	.0	.4	1.8	4.3	40.1	53.4	279
TOT	0	2	11	28	320	649	1010
PCT	.0	.2	1.1	2.8	31.7	64.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.9	3.7	20.4	75.9	108
06&09	.0	.9	8.2	23.6	68.2	110
12&15	.0	1.3	9.1	24.7	66.2	77
18&21	.0	.0	7.7	19.2	73.1	52
TOT	0	4	24	77	246	347
PCT	.0	1.2	6.9	22.2	70.9	100.0

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	.2	.0	.4	.0	.2	.4	.2	.6	10	1.9
70/74	.0	.2	1.5	2.6	8.6	7.5	3.6	1.9	138	25.8
65/69	.0	.6	1.5	8.2	10.7	12.5	9.3	4.3	252	47.1
60/64	.0	.2	.9	2.4	5.4	5.2	6.7	1.1	118	22.1
55/59	.0	.0	.2	.6	.6	.4	1.3	.2	17	3.2
TOTAL	1	5	24	74	136	139	113	43	535	100.0
PCT	.2	.9	4.5	13.8	25.4	26.0	21.1	8.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.7	.2	.0	*	.6	.3	.0	.0	.0	.0
6.1	2.3	2.4	2.4	5.2	2.6	1.2	2.5	.0	1.1
3.4	1.2	3.4	4.5	14.2	11.8	4.7	3.4	.0	.6
.2	.1	.6	.6	7.0	8.5	2.3	2.7	.0	.2
.0	.0	.0	.1	.8	.9	.7	.6	.0	.0
10.4	3.8	6.4	7.7	27.9	24.1	8.9	9.2	.0	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	80	77	74	68	61	59	57	67.8	372
06&09	81	77	74	68	62	60	58	67.9	396
12&15	75	73	72	66	59	57	52	66.0	214
18&21	76	73	71	65	58	55	52	64.6	379
TOT	81	76	73	67	59	57	52	66.7	1361

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	15.9	31.8	27.2	18.5	6.6	71	151
06&09	.6	29.7	27.9	23.6	10.3	7.9	67	165
12&15	.0	18.8	17.8	25.7	28.7	8.9	73	101
18&21	.0	11.5	18.5	27.7	32.3	10.0	75	130
TOT	1	107	136	142	116	45	71	547

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.3	.0	.4	5	.0	.7
6	.0	.0	.0	.1	.0	.1	.1	3	.0	.4
5	.0	.0	.1	.0	.4	.1	.3	7	.0	.9
4	.0	.0	.0	.0	.1	.0	.1	2	.0	.3
3	.0	.0	.1	.3	.1	.1	.0	5	.0	.7
2	.0	.0	.0	.4	1.2	.5	.0	16	.0	2.2
1	.0	.0	.0	.7	.9	.8	.3	20	.0	2.7
0	.0	.0	.8	1.7	2.7	1.1	.0	47	.1	6.1
-1	.0	.0	.7	1.7	3.2	1.1	.0	50	.0	6.7
-2	.0	.0	.7	4.5	5.1	.4	.0	80	.0	10.7
-3	.0	.0	.8	4.7	4.4	.3	.0	76	.0	10.1
-4	.0	.1	2.0	5.7	3.5	.3	.0	87	.0	11.6
-5	.1	.3	3.3	6.4	3.5	.1	.0	103	.0	13.7
-6	.0	.1	2.0	5.2	1.3	.1	.0	66	.0	8.8
-7/-8	.0	1.2	4.4	6.5	.7	.0	.0	96	.1	12.7
-9/-10	.0	1.3	4.1	1.6	.0	.0	.0	53	.1	6.9
-11/-13	.0	.9	2.5	.3	.0	.0	.0	28	.0	3.7
-14/-16	.0	.7	.1	.0	.0	.0	.0	6	.0	.8
TOTAL	1		163		205		9		3	747
		35		299		38		750		
PCT	.1	4.7	21.7	39.9	27.3	5.1	1.2	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.1	.0	.0	.0	.0	1.9
1-2	.0	3.9	2.6	.0	.0	.0	6.5
3-4	.4	.3	3.1	.0	.0	.0	3.8
5-6	.0	.0	1.9	.3	.0	.0	2.3
7	.0	.0	.4	.3	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.4	.0	.0	.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
TOT PCT	1.2	5.3	8.4	.6	.0	.0	15.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.0	.0	.0	.0	.0	.4
1-2	.0	1.0	1.4	.0	.0	.0	2.5
3-4	.0	.4	1.4	.0	.0	.0	1.8
5-6	.0	.4	.9	.0	.0	.0	1.3
7	.0	.0	.0	.5	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	1.8	3.8	.5	.0	.0	6.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	2.8	1.1	.0	.0	.0	3.9
3-4	.0	2.9	.4	.0	.0	.0	3.3
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	6.0	2.4	.0	.0	.0	8.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.5	.0	.0	.0	.0	.9
1-2	.0	1.2	.9	.0	.0	.0	2.2
3-4	.0	.8	2.3	.0	.0	.0	3.1
5-6	.0	.4	.1	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	3.0	3.3	.0	.0	.0	6.7

PERIOD: (OVER-ALL) 1963-1971

MAY

TABLE 18 (CONT)

AREA 0006 COFFS HARBOUR
30.3S 153.3E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	2.7	1.0	.0	.0	.0	3.7	.0	5.2	1.8	.0	.0	.0	7.1
3-4	.0	3.6	4.1	.0	.0	.0	7.7	.0	4.2	3.5	.0	.0	.0	7.7
5-6	.0	.3	5.7	2.8	.0	.0	8.8	.0	.5	1.1	1.3	.0	.0	3.0
7	.0	.0	.8	.0	.0	.0	.8	.0	.8	.8	2.9	.0	.0	4.5
8-9	.0	.0	.4	.3	.0	.0	.7	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.4	.0	.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	.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
TOT PCT	.0	7.3	12.1	3.9	.3	.0	23.6	.0	12.0	7.3	4.7	.1	.0	24.1

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.4	1.2	.0	.0	.0	.0	1.6	.4	.1	.0	.0	.0	.0	.5	
1-2	.0	3.1	.8	.0	.0	.0	3.9	.4	3.1	.9	.0	.0	.0	4.4	
3-4	.0	.7	.0	.0	.0	.0	.7	.0	.6	1.2	.0	.0	.0	1.8	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
7	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.1	.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	
TOT PCT	.4	5.0	.8	.0	.3	.0	6.6	.8	3.8	2.2	.1	.1	.0	7.0	98.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.1	5.3	.0	.0	.0	.0	9.4	
1-2	.4	23.0	10.7	.0	.0	.0	34.0	
3-4	.4	13.5	16.0	.0	.0	.0	29.9	
5-6	.0	1.6	10.2	4.5	.0	.0	16.4	
7	.0	.8	2.0	3.7	.4	.0	7.0	
8-9	.0	.0	.8	.4	.0	.0	1.2	
10-11	.0	.0	.0	.8	.0	.0	.8	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.4	.0	.4	.0	.8	
17-19	.0	.0	.0	.4	.0	.0	.4	
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	
								244
TOT PCT	4.9	44.3	40.2	9.8	.8	.0	100.0	

PERIOD: (OVER-ALL) 1949-1971

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	11.3	13.4	4.9	3.4	.9	.9	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	119	4
6-7	.0	.9	9.8	14.3	6.1	4.0	.9	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	121	5
8-9	.0	.9	2.4	5.2	4.3	1.2	.9	.3	1.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	56	7
10-11	.0	.3	.0	.0	.3	.3	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
12-13	.0	.0	.0	.0	.6	.3	.9	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	10
>13	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	2	18
INDET	.9	1.2	1.2	.6	.0	.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	4
TOTAL	7	48	88	82	48	23	14	5	10	1	1	1	0	0	0	0	0	0	0	328	5
PCT	2.1	14.6	26.8	25.0	14.6	7.0	4.3	1.5	3.0	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1909-1970
(OVER-ALL) 1858-1970

AREA 0006 COFFS HARBOUR
30.3S 153.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	6.8	5.1	.0	.0	.0	.0	.0	11.9	1.7	8.1	.0	.0	1.3	.0		78.7
NE	6.8	8.1	5.4	.0	.0	.0	.0	20.3	.0	6.1	.0	.0	.7	.0		73.0
E	13.0	15.0	.0	.0	.0	.0	.0	28.0	2.9	5.8	.0	.0	.0	.0		65.2
SE	8.0	16.4	.3	.0	.0	.0	.0	24.4	5.8	5.3	.0	.0	.0	.0		67.6
S	7.9	11.9	2.9	.0	.0	.0	.0	22.4	2.3	3.8	.7	.0	.0	.0		71.8
SW	7.8	4.7	.8	.0	.0	.0	.0	13.2	1.9	2.2	.7	.0	.4	.0		81.7
W	1.4	2.1	.0	.0	.0	.0	.0	3.4	.9	3.7	.0	.0	.0	.0		92.9
NW	1.7	3.4	.0	.0	.0	.0	.0	5.1	1.1	2.3	.0	.0	.0	.0		92.7
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	.0	.0		100.0
TOT PCT	6.6	7.9	1.1	.0	.0	.0	.0	15.6	2.2	3.9	.3	.0	.2	.0		78.9
TOT OBS:	881															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.5	8.5	.4	.0	.0	.0	.0	13.4	4.9	.4	.4	.0	.4	.0		80.8
06&09	4.7	5.8	1.1	.0	.0	.0	.0	11.5	1.4	2.5	.4	.0	.4	.0		84.2
12&15	10.0	7.3	.0	.0	.0	.0	.0	17.3	.7	9.3	.0	.0	.0	.0		74.7
18&21	8.8	10.0	2.4	.0	.0	.0	.0	20.7	1.6	4.8	.4	.0	.0	.0		74.1
TOT PCT	6.6	7.9	1.1	.0	.0	.0	.0	15.5	2.2	3.8	.3	.0	.2	.0		79.0
TOT OBS:	903															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	3.2	1.7	.2	.0	.0		5.7	8.7	2.5	6.9	6.0	4.8	5.4	6.3	7.0	4.9
NE	.4	2.2	1.1	*	.0	.0		3.7	8.6	.8	2.2	6.1	3.7	3.5	4.4	5.2	2.2
E	.5	2.2	2.3	.7	.1	.1		5.9	13.4	4.0	6.3	7.8	9.0	5.8	5.9	3.6	4.4
SE	.3	4.4	3.5	2.5	.7	.2		11.7	16.5	11.6	11.9	13.1	13.0	12.7	10.4	10.3	10.9
S	1.2	8.4	8.7	4.0	1.2	.2		23.7	15.0	17.2	22.0	31.3	29.3	25.4	21.5	21.1	19.3
SW	1.0	7.8	10.2	5.0	1.5	.1		25.5	16.1	29.4	25.8	21.7	23.3	22.7	25.6	28.5	27.1
W	.8	5.7	4.7	1.4	.6	.0		13.2	13.1	23.3	15.0	6.0	9.5	9.6	13.7	12.5	18.4
NW	.5	5.8	2.6	.2	.0	.0		9.2	9.3	11.1	9.5	6.5	5.3	10.4	10.7	9.8	11.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0	.0	.4	1.5	2.0	4.6	1.5	1.8	1.0
TOT OBS	95	560	489	198	57	8	1407		13.8	119	253	259	150	65	135	220	206
TOT PCT	6.8	39.8	34.8	14.1	4.1	.6		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.8	2.4	.6	*	.0		5.7	8.7	5.5	5.6	6.0	6.0
NE	1.6	2.0	.1	*	.0		3.7	8.6	1.7	5.2	4.1	3.8
E	1.7	2.1	1.7	.3	.1		5.9	13.4	5.6	8.3	5.9	4.0
SE	2.2	4.4	2.9	1.9	.2		11.7	16.5	11.8	13.1	11.1	10.6
S	5.0	9.6	6.6	1.8	.7		23.7	15.0	20.5	30.6	22.8	20.2
SW	4.0	10.0	8.4	2.6	.6		25.5	16.1	26.9	22.3	24.6	27.8
W	3.1	6.1	2.9	1.0	.1		12.2	13.1	17.7	7.3	12.4	15.4
NW	3.7	4.3	1.2	.1	.0		9.2	9.3	10.0	6.1	10.6	10.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	.3	1.7	2.5	1.4
TOT OBS	357	576	343	108	23	1407		13.8	372	409	200	426
TOT PCT	25.4	40.9	24.4	7.7	1.6		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1909-1970
(OVER-ALL) 1858-1970

AREA 0006 COFFS HARBOUR
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.3	4.3	42.2	33.6	15.6	3.0	1.1	14.1	100.0	372
06&09	1.7	7.6	38.4	31.1	15.9	4.6	.7	13.9	100.0	409
12&15	2.5	6.5	34.0	39.0	12.0	5.5	.5	14.1	100.0	200
18&21	1.4	3.8	41.8	37.3	12.0	3.8	.0	13.3	100.0	426
TOT	19	76	560	489	198	57	8	13.8		1407
PCT	1.4	5.4	39.8	34.8	14.1	4.1	.6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.5	.7	1.8	.0		3.3
NE	1.1	.4	1.7	.3		4.2
E	1.5	.2	2.0	2.7		5.7
SE	1.5	2.1	3.9	4.7		5.9
S	6.6	3.7	7.0	2.7		4.2
SW	13.6	3.1	7.5	2.5		3.4
W	11.8	2.8	1.9	.2		2.0
NW	6.8	.8	.8	.3		1.7
VAR	.0	.0	.0	.0		.0
CALM	.3	.3	.0	.0		2.5
TOT OBS	138	43	80	41	302	3.6
TOT PCT	45.7	14.2	26.5	13.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.7	.0	.0	.2	.0	.0	4.1	
NE	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	2.8	
E	.0	.0	.3	1.3	1.9	.8	.0	.0	.0	.0	2.1	
SE	.0	.3	.7	2.2	2.4	.5	.4	.0	.0	.0	5.7	
S	.7	.0	.3	1.9	3.1	.7	.6	.0	.0	.0	12.7	
SW	.7	.0	.7	1.3	3.1	1.9	.3	.3	.0	.1	18.1	
W	.0	.0	.0	.2	.0	.7	.0	.0	.0	.6	13.3	
NW	.0	.0	.0	.0	.7	.0	.0	.1	.0	.0	8.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
TOT OBS	4	1	6	22	36	15	4	2	0	2	210	302
TOT PCT	1.3	.3	2.0	7.3	11.9	5.0	1.3	.7	.0	.7	69.5	100.0

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 >50YD	= OR >0
= OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
= OR >5000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >3500	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
= OR >2000	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
= OR >1000	15.8	18.1	19.4	19.4	19.4	19.4	19.4	19.4
= OR >600	20.6	24.8	26.5	26.5	26.8	26.8	26.8	26.8
= OR >300	21.3	26.1	28.1	28.1	28.7	28.7	28.7	28.7
= OR >150	21.3	26.5	28.4	28.4	29.0	29.0	29.0	29.0
= OR > 0	21.6	27.4	29.7	29.7	30.3	30.3	30.3	30.3
TOTAL	67	85	92	92	94	94	94	94

TOTAL NUMBER OF OBS: 310

PCT FREQ NH <5/8: 69.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
16.9	25.8	9.2	8.1	8.1	4.4	7.8	8.9	10.6	.3	360

PERIOD: (PRIMARY) 1909-1970
(OVER-ALL) 1858-1970

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.1	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3	
1<2	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
2<5	PCP	.0	.0	.1	.1	.6	.1	.1	.0	.0	.0	1.0	
	NO PCP	.1	.0	.1	.1	.2	.3	.0	.0	.0	.0	.8	
	TOT %	.1	.0	.2	.2	.9	.4	.1	.0	.0	.0	1.8	
5<10	PCP	.6	.6	1.2	1.9	3.6	2.4	.3	.3	.0	.0	10.9	
	NO PCP	2.6	1.6	2.0	3.3	9.1	8.8	3.7	3.6	.0	.1	34.7	
	TOT %	3.2	2.3	3.1	5.2	12.6	11.2	3.9	3.9	.0	.1	45.6	
10+	PCP	.1	.2	.3	.6	1.0	.9	.1	.2	.0	.0	3.2	
	NO PCP	3.2	1.7	2.2	4.7	9.1	13.4	8.3	6.0	.0	.3	48.9	
	TOT %	3.3	1.9	2.5	5.2	10.0	14.2	8.4	6.2	.0	.3	52.1	
	TOT OBS												881
	TOT PCT	6.7	4.2	5.9	10.7	23.6	26.0	12.4	10.1	.0	.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.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	
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.1	.1	.0	.0	.0		.2	
	TOT %	.1	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	*	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
2<5	0-3	*	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	4-10	.1	*	*	.0	.2	.1	.1	.1	.0		.7	
	11-21	.0	.0	*	.1	.4	.3	.0	.0	.0		1.0	
	22+	.0	.0	.1	.1	.1	.1	.0	.0	.0		.4	
	TOT %	.1	*	.2	.2	.8	.5	.1	.1	.0	.0	2.2	
5<10	0-3	.2	.1	.1	.0	.9	.4	.5	*	.0	.2	2.6	
	4-10	1.7	1.0	1.4	1.6	3.2	2.0	1.1	2.6	.0		14.6	
	11-21	1.1	1.0	.7	1.9	3.9	3.9	1.5	1.0	.0		15.0	
	22+	.0	.0	.7	1.5	3.1	3.7	.4	*	.0		9.4	
	TOT %	3.0	2.1	2.8	5.1	11.2	10.0	3.6	3.7	.0	.2	41.6	
10+	0-3	.5	.3	.4	.2	.3	.5	.4	.3	.0	.7	3.6	
	4-10	2.0	1.4	.9	2.6	4.4	5.3	4.3	4.3	.0		25.3	
	11-21	.8	.2	.9	1.0	4.1	5.8	3.6	1.9	.0		18.4	
	22+	.1	.0	.1	1.9	2.2	3.2	.7	.2	.0		8.5	
	TOT %	3.5	2.0	2.4	5.8	11.0	14.9	9.0	6.7	.0	.7	55.8	
	TOT OBS												1019
	TOT PCT	6.7	4.1	5.4	11.1	23.0	25.6	12.7	10.6	.0	.9	100.0	

JUNE

PERIOD: (PRIMARY) 1909-1970
(OVER-ALL) 1858-1970

AREA 0006 COFFS HARBOUR
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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
00&03	.9	.0	.9	6.3	12.5	3.6	1.8	.0	.0	1.8	27.7	72.3	112
06&09	1.0	.0	1.9	4.8	8.7	3.8	1.9	1.0	.0	.0	23.1	76.9	104
12&15	1.7	1.7	1.7	10.2	3.4	3.4	.0	.0	.0	.0	22.0	78.0	59
18&21	1.6	.0	3.1	7.8	18.8	7.8	.0	1.6	.0	.0	40.6	59.4	64
TOT	4	1	6	23	37	15	4	2	0	2	94	245	339
PCT	1.2	.3	1.8	6.8	10.9	4.4	1.2	.6	.0	.6	27.7	72.3	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
00&03	.0	.4	.0	2.7	33.7	63.1	255
06&09	.0	.3	.3	1.9	45.8	51.6	312
12&15	.0	.0	.0	2.5	35.2	62.3	162
18&21	.0	.3	.0	1.6	48.7	49.4	312
TOT	0	3	1	22	438	577	1041
PCT	.0	.3	.1	2.1	42.1	55.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.0	2.9	9.7	20.4	69.9	103
06&09	1.1	3.2	9.6	16.0	74.5	94
12&15	1.9	5.6	20.4	3.7	75.9	54
18&21	1.7	5.1	13.6	30.5	55.9	59
TOT	4	12	38	56	216	310
PCT	1.3	3.9	12.3	18.1	69.7	100.0

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	.2	.0	.4	.0	.0	.0	3	.6
70/74	.0	.2	.2	.6	1.5	.8	.0	.6	20	3.8
65/69	.0	.9	2.4	6.0	8.5	11.7	7.7	1.7	207	39.0
60/64	.0	.6	1.7	4.5	9.8	12.4	10.7	4.9	237	44.6
55/59	.0	.0	.0	1.3	2.6	2.8	3.0	1.7	58	10.9
50/54	.0	.0	.0	.2	.4	.0	.4	.2	6	1.1
TOTAL	0	9	24	67	123	144	116	48	531	100.0
PCT	.0	1.7	4.5	12.6	23.2	27.1	21.8	9.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.1	.1	.2	.0	.0	.2	.0	.0
	.6	.0	.9	.2	1.2	.4	.3	.1	.0	.0
	4.0	2.6	3.5	6.8	7.8	6.5	2.7	4.5	.0	.6
	1.6	1.5	1.9	4.5	11.6	12.1	6.9	4.9	.0	.0
	.2	.0	.0	1.2	1.6	4.7	2.4	.8	.0	.0
	.0	.0	.0	.0	.0	.2	.7	.3	.0	.0
	6.4	4.1	6.0	12.9	22.4	23.9	12.9	10.8	.0	.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	74	73	70	64	58	56	50	64.2	370
06&09	77	74	70	64	59	56	51	64.6	415
12&15	70	69	68	63	57	52	51	62.6	202
18&21	72	70	67	62	55	52	50	61.6	423
TOT	77	72	69	63	57	53	50	63.3	1410

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	16.6	26.8	28.0	17.8	10.8	72	157
06&09	.0	26.5	26.5	22.3	15.1	9.6	68	166
12&15	.0	21.0	23.5	27.2	22.2	6.2	71	81
18&21	.0	9.8	16.8	32.2	32.2	9.1	76	143
TOT	0	101	129	149	117	51	72	547

PERIOD: (PRIMARY) 1909-1970
(OVER-ALL) 1858-1970

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA THP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
6	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
5	.0	.0	.0	.1	.3	.1	.0	.0	4	.0	.5
4	.0	.0	.1	.3	.6	.4	.0	.0	11	.0	1.4
3	.0	.0	.0	.5	.4	.3	.3	.1	12	.1	1.4
2	.0	.0	.3	.3	.9	1.3	.4	.0	24	.1	2.9
1	.0	.0	.1	.6	1.3	.8	.1	.0	23	.0	2.9
0	.0	.0	.5	1.4	1.5	1.4	.0	.0	38	.0	4.8
-1	.0	.0	.4	.9	3.3	1.1	.1	.0	46	.0	5.8
-2	.0	.1	.8	2.7	3.3	1.0	.0	.0	62	.0	7.9
-3	.0	.0	.4	4.2	4.1	.4	.0	.0	71	.0	9.0
-4	.1	.0	.5	4.7	4.4	.3	.0	.0	79	.0	10.0
-5	.0	.3	1.4	7.2	3.8	.0	.0	.0	100	.0	12.7
-6	.0	.0	.6	7.5	2.7	.1	.0	.0	86	.0	10.9
-7/-8	.0	.5	3.0	10.4	1.8	.0	.0	.0	124	.1	15.6
-9/-10	.0	.4	3.7	4.4	.5	.0	.0	.0	71	.0	9.0
-11/-13	.0	.8	1.5	.4	.0	.0	.0	.0	21	.0	2.7
-14/-16	.3	.6	.4	.3	.0	.0	.0	.0	12	.0	1.5
-17/-19	.0	.3	.0	.0	.0	.0	.0	.0	2	.0	.3
TOTAL	3	23	108	361	228	57	7	1	788	3	785
PCT	.4	2.9	13.7	45.8	28.9	7.2	.9	.1	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.3	.0	.0	.0	.0	1.1
1-2	.3	1.2	1.0	.0	.0	.0	2.4
3-4	.0	1.0	.7	.4	.0	.0	2.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.1	2.4	1.6	.4	.0	.0	5.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.2	.0	.0	.0	.0	1.6
1-2	.0	.5	.4	.0	.0	.0	.9
3-4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	1.6	.9	.0	.0	.0	2.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.0	.0	.0	.0	.0	.8
1-2	.4	.7	.0	.0	.0	.0	1.1
3-4	.0	1.0	.8	.4	.0	.0	2.1
5-6	.0	.0	.8	.3	.0	.0	1.1
7	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.3	.0	.0	.0	.3
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
TOT PCT	1.2	1.6	2.5	1.0	.0	.0	6.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	1.4	.4	.0	.0	.0	1.7
3-4	.4	1.4	.3	.4	.0	.0	2.6
5-6	.0	.0	1.6	.6	.0	.0	2.2
7	.0	.1	.7	1.6	.0	.0	2.4
8-9	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.1	.8	.0	.0	.9
12	.0	.0	.0	.0	.8	.0	.8
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	.8	.0	.8
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
TOT PCT	.4	4.1	3.3	3.9	1.6	.0	13.2

PERIOD: (OVER-ALL) 1963-1970

JUNE

TABLE 18 (CONT)

AREA 0006 COFFS HARBOUR
30.3S 153.3E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.3	.0	.0	.0	.0	1.6
1-2	.0	2.0	1.0	.0	.0	.0	3.0
3-4	.0	3.7	3.7	.6	.0	.0	7.9
5-6	.0	.0	2.5	1.1	.0	.0	3.6
7	.0	.3	1.3	2.2	.0	.0	3.8
8-9	.0	.0	.0	.8	.0	.0	.8
10-11	.0	.0	.3	.4	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.6	.0	.6
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	.4	.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
TOT PCT	.4	7.3	8.7	5.0	1.0	.0	22.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.1	.0	.0	.0	.0	2.1
1-2	.0	3.1	1.9	.0	.0	.0	5.0
3-4	.0	1.7	2.0	1.0	.0	.0	4.7
5-6	.0	.5	3.4	1.6	.0	.0	5.4
7	.0	.0	.9	1.9	.0	.0	2.8
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.1	.0	.4	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.2	.6	.0	1.7
17-19	.0	.0	.0	.0	.2	.0	.2
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
TOT PCT	.0	7.5	8.3	6.0	1.2	.0	23.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.1	.3	.0	.0	.0	2.4
1-2	.0	4.7	1.6	.0	.0	.0	6.4
3-4	.0	.4	.0	.4	.0	.0	.8
5-6	.0	.3	2.5	.0	.0	.0	2.8
7	.0	.0	.4	1.2	.0	.0	1.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.6	.0	.6
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
TOT PCT	.0	7.6	4.8	1.6	.6	.0	14.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	1.1	.1	.0	.0	.0	1.6	
1-2	.1	3.9	1.1	.0	.0	.0	5.0	
3-4	.0	1.4	1.9	.4	.0	.0	3.7	
5-6	.0	.0	.4	.0	.0	.0	.4	
7	.0	.0	.0	.4	.0	.0	.4	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	.5	6.3	3.5	.8	.0	.0	11.0	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.0	9.2	.4	.0	.0	.0	14.5	
1-2	1.1	17.2	7.3	.0	.0	.0	25.6	
3-4	.4	10.3	9.5	3.4	.0	.0	23.7	
5-6	.0	.8	11.5	3.4	.0	.0	15.6	
7	.0	.4	3.8	7.3	.0	.0	11.5	
8-9	.0	.0	.0	1.9	.0	.0	1.9	
10-11	.0	.0	.8	1.1	.4	.0	2.3	
12	.0	.0	.0	.0	.8	.0	.8	
13-16	.0	.0	.0	1.1	1.1	.0	2.3	
17-19	.0	.0	.0	.0	.8	.0	.8	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	1.1	.0	1.1	
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	
TOT PCT	6.5	37.8	33.2	18.3	4.2	.0	100.0	262

PERIOD: (OVER-ALL) 1949-1970

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	8.5	13.5	6.6	2.5	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	4
6-7	.0	.0	3.8	7.2	5.3	3.8	2.2	1.3	.6	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	82	7
8-9	.0	.3	3.1	2.5	4.1	4.4	4.1	.6	.6	.3	.0	.3	.3	.0	.0	.0	.0	.0	.0	66	8
10-11	.0	.0	.6	1.6	3.1	1.9	.6	.6	.0	.0	.3	.0	.6	.0	.0	.0	.0	.0	.0	30	9
12-13	.0	.0	.9	.0	.6	1.3	.3	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	8
>13	.0	.0	.0	.0	.0	.3	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	13
INDET	2.5	.6	.3	.0	1.3	.0	.9	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	4
TOTAL	9	30	71	57	54	38	28	9	11	6	2	1	3	0	0	0	0	0	0	319	6
PCT	2.8	9.4	22.3	17.9	16.9	11.9	8.8	2.8	3.4	1.9	.6	.3	.9	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1912-1970
(OVER-ALL) 1855-1970

AREA 0006 COFFS HARBOUR
30.35 153.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.7	.0	1.1	.0	.0	.0	.0	3.8	.0	1.1	2.7	.0	.0	.0		92.4
NE	3.0	9.0	.0	.0	.0	.0	.0	11.9	.7	.0	4.5	.0	.7	.0		82.1
E	9.7	14.2	.0	.0	.0	.0	.0	23.9	5.3	3.5	3.5	.0	2.7	.0		61.1
SE	6.0	8.1	.0	.0	.0	.0	.0	14.1	.7	2.7	.0	.0	.0	.0		82.6
S	1.8	8.9	.6	.0	.0	.0	.0	11.3	.8	1.8	.0	.0	.8	.0		85.6
SW	4.9	1.6	.7	.0	.0	.0	.0	7.2	.8	2.0	.3	.0	.8	.0		89.7
W	2.6	2.3	1.2	.0	.0	.0	.0	6.1	1.0	2.5	.3	.0	.3	.0		90.4
NW	1.5	3.8	.4	.0	.0	.0	.0	5.7	.0	.4	1.5	.0	.0	.0		92.3
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	.0	.0		100.0
TOT PCT	3.4	4.1	.7	.0	.0	.0	.0	8.3	.8	1.8	1.0	.0	.6	.0		88.0
TOT OBS:	726															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.5	2.5	.0	.0	.0	.0	.0	6.1	1.0	.5	.0	.0	1.0	.0		91.4
06&09	2.7	6.3	.5	.0	.0	.0	.0	9.5	.9	1.4	1.4	.0	.9	.0		86.9
12&15	3.8	4.5	2.3	.0	.0	.0	.0	10.5	.0	3.8	.8	.0	.0	.0		85.7
18&21	4.3	4.3	.5	.0	.0	.0	.0	9.2	1.0	1.9	1.4	.0	.0	.0		86.5
TOT PCT	3.6	4.5	.7	.0	.0	.0	.0	8.7	.8	1.7	.9	.0	.5	.0		87.8
TOT OBS:	760															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	6.7	2.7	1.0	*	.0		11.4	10.0	5.3	9.3	16.1	18.8	20.8	14.3	8.4	5.2
NE	.5	2.0	1.3	.3	*	.0		4.2	10.8	.0	3.9	6.1	7.3	9.5	3.0	1.6	4.4
E	.3	2.1	1.6	.6	.2	.0		4.7	13.9	4.0	3.5	5.2	4.3	3.0	6.1	6.5	4.4
SE	.4	2.0	2.4	.4	*	*		5.2	11.9	3.0	7.0	6.2	12.4	3.0	3.9	3.2	2.2
S	.7	6.0	7.6	2.9	1.1	.1		18.4	15.7	14.4	19.8	26.7	23.1	21.2	16.5	10.0	14.8
SW	1.0	9.7	11.3	4.1	.8	.1		26.9	14.5	41.2	28.4	21.6	16.7	19.7	25.7	28.9	31.6
W	1.2	9.6	6.4	.9	.3	.0		18.2	11.1	24.5	14.8	8.5	7.3	16.3	22.2	28.0	26.4
NW	.8	5.7	2.5	.4	.1	.0		9.5	9.7	6.6	12.6	6.3	8.5	4.9	7.4	13.0	10.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.1	1.0	.8	3.5	1.7	1.5	.9	.5	.5
TOT OBS	89	542	445	132	32	3	1243		12.6	99	243	227	117	66	115	193	183
TOT PCT	7.2	43.6	35.8	10.6	2.6	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.4	5.0	1.9	.2	.0		11.4	10.0	8.1	17.0	16.7	6.8
NE	1.4	1.9	.8	.1	.0		4.2	10.8	2.8	6.5	5.4	2.9
E	1.0	2.1	1.1	.6	.0		4.7	13.9	3.7	4.9	5.0	5.5
SE	1.5	2.6	.8	.2	*		5.2	11.9	5.8	8.3	3.6	2.7
S	2.8	7.8	5.8	1.7	.4		18.4	15.7	18.2	25.4	18.2	12.3
SW	4.2	12.8	8.0	1.6	.3		26.9	14.5	32.1	19.9	23.5	30.2
W	4.9	10.0	2.7	.6	.1		18.2	11.1	17.6	8.1	20.0	27.2
NW	3.5	4.9	.9	.2	.0		9.5	9.7	10.8	7.0	6.5	11.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.1	.9	2.9	1.1	.5
TOT OBS	312	585	272	64	10	1243		12.6	342	344	181	376
TOT PCT	25.1	47.1	21.9	5.1	.8		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1912-1970
(OVER-ALL) 1855-1970

AREA 0006 COFFS HARBOUR
30.3S 153.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.9	4.7	42.4	38.9	9.9	2.9	.3	13.0	100.0	342
06&09	2.9	6.7	40.4	37.5	9.6	2.3	.6	12.3	100.0	344
12&15	1.1	4.4	44.8	31.5	14.4	3.9	.0	13.3	100.0	181
18&21	.5	6.6	47.1	33.5	10.4	1.9	.0	12.2	100.0	376
TOT	17	72	542	445	132	32	3	12.6		1243
PCT	1.4	5.8	43.6	35.8	10.6	2.6	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.7	2.7	1.8	1.7		3.1
NE	1.4	.8	.5	1.5		4.4
E	1.0	.6	1.0	1.4		4.8
SE	.9	1.4	.6	1.4		4.9
S	8.6	4.0	4.5	1.8		3.4
SW	15.9	5.8	6.0	2.6		3.0
W	12.8	2.7	2.5	.6		2.1
NW	3.8	.9	.7	.5		2.5
VAR	.0	.0	.0	.0		.0
CALM	1.0	.0	.3	.0		2.2
TOT OBS	146	54	53	33	286	3.1
TOT PCT	51.0	18.9	18.5	11.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.3	1.1	.7	.0	.0	.0	.0	9.7	
NE	.0	.0	.7	.3	.9	.0	.0	.0	.0	.0	2.3	
E	.0	.0	.3	.5	.5	.0	.0	.0	.0	.0	2.5	
SE	.0	.0	.0	.5	.6	.1	.3	.0	.0	.0	2.7	
S	.0	.0	.3	.3	2.0	.9	.5	.2	.0	.0	14.7	
SW	.3	.0	.1	.7	3.6	.4	1.0	.2	.2	.3	24.0	
W	.0	.0	.0	.3	1.1	.0	.3	.0	.2	.7	16.0	
NW	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	5.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
TOT OBS	1	0	4	9	30	6	6	1	1	3	225	286
TOT PCT	.3	.0	1.4	3.1	10.5	2.1	2.1	.3	.3	1.0	78.7	100.0

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 >50YD	= OR >0
= OR >6500	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >5000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
= OR >3500	3.4	3.4	3.7	3.7	3.7	3.7	3.7	3.7
= OR >2000	6.1	6.1	6.4	6.4	6.4	6.4	6.4	6.4
= OR >1000	14.2	16.3	16.6	16.9	16.9	16.9	16.9	16.9
= OR >600	16.3	19.7	20.0	20.3	20.3	20.3	20.3	20.3
= OR >300	16.6	20.3	20.7	21.7	21.7	21.7	21.7	21.7
= OR >150	16.6	20.3	20.7	21.7	21.7	21.7	21.7	21.7
= OR > 0	16.9	20.7	21.0	22.0	22.0	22.0	22.0	22.0
TOTAL	50	61	62	65	65	65	65	65

TOTAL NUMBER OF OBS: 295 PCT FREQ NH <5/8: 78.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
21.4	25.4	12.4	10.8	7.7	7.1	3.1	2.8	9.3	.0	323

PERIOD: (PRIMARY) 1912-1970
(OVER-ALL) 1855-1970

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.1	.0	.0	.0	.1	.1	.0	.0	.0	.3	
	TOT %	.0	.1	.0	.0	.0	.1	.1	.0	.0	.0	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.4	
	TOT %	.3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.4	
1<2	PCP	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.4	
	NO PCP	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.4	.1	.0	.0	.1	.0	.0	.0	.0	.7	
2<5	PCP	.2	.0	.0	.0	.0	.1	.2	.1	.0	.0	.7	
	NO PCP	.0	.1	.0	.0	.2	*	.0	.0	.0	.0	.4	
	TOT %	.2	.1	.0	.0	.2	.2	.2	.1	.0	.0	1.1	
5<10	PCP	.1	.3	.7	.7	1.8	1.2	1.0	.3	.0	.0	6.1	
	NO PCP	4.8	1.5	1.2	1.5	4.2	6.6	8.3	3.7	.0	.3	32.2	
	TOT %	5.0	1.8	1.9	2.2	6.0	7.9	9.3	4.1	.0	.3	38.3	
10+	PCP	.1	.1	.1	*	.2	.4	.1	*	.0	.0	1.1	
	NO PCP	7.2	2.0	1.8	2.9	10.6	17.3	11.1	4.6	.0	.7	58.1	
	TOT %	7.3	2.1	1.9	3.0	10.8	17.6	11.2	4.6	.0	.7	59.2	
	TOT OBS												726
	TOT PCT	12.7	4.6	3.9	5.1	17.0	25.9	20.8	9.0	.0	1.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.1	.1	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.0	.0	.0	.1	.1	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.2	.1	.1	.0	.0	.0	.0	.0		.3	
	22+	.0	.1	.3	.0	.0	.1	.0	.0	.0		.6	
	TOT %	.1	.3	.4	.1	.0	.1	.0	.0	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.0	.0	.1	.1	.1	.1	.0		.6	
	11-21	.0	.1	.1	.1	.3	.1	.1	.0	.0		.7	
	22+	.0	.1	.0	.0	.0	.1	.0	.0	.0		.2	
	TOT %	.2	.2	.1	.1	.4	.3	.2	.1	.0	.0	1.5	
5<10	0-3	.4	.2	.0	.1	.2	.5	.7	.3	.0	.2	2.8	
	4-10	2.4	.9	.3	.6	2.6	2.8	3.3	2.1	.0		14.9	
	11-21	.9	.5	.7	.7	1.3	2.4	3.3	.9	.0		10.7	
	22+	.6	.1	.7	.4	1.0	1.3	.6	.1	.0		4.9	
	TOT %	4.2	1.6	1.8	1.8	5.2	7.0	8.0	3.4	.0	.2	33.3	
10+	0-3	.5	.3	.2	.2	.3	.5	.7	.5	.0	.8	4.0	
	4-10	5.0	1.4	1.5	1.2	3.3	7.0	7.3	3.6	.0		30.4	
	11-21	1.7	.7	.4	1.6	5.2	9.0	4.0	1.8	.0		24.4	
	22+	.2	.0	.1	.1	1.8	2.2	.4	*	.0		4.8	
	TOT %	7.5	2.4	2.2	3.2	10.6	18.7	12.4	5.9	.0	.8	63.6	
	TOT OBS												872
	TOT PCT	12.3	4.6	4.4	5.1	16.2	26.1	20.6	9.6	.0	1.0	100.0	

JULY

PERIOD: (PRIMARY) 1912-1970
(OVER-ALL) 1855-1970

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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
00&03	1.0	.0	2.0	2.0	9.9	3.0	2.0	.0	1.0	1.0	21.8	78.2	101
06&09	.0	.0	1.1	6.5	7.6	2.2	2.2	.0	.0	1.1	20.7	79.3	92
12&15	.0	.0	1.5	1.5	12.3	4.6	1.5	1.5	.0	.0	23.1	76.9	65
18&21	.0	.0	.0	1.7	10.3	.0	1.7	.0	.0	1.7	15.5	84.5	58
TOT	1	0	4	10	31	8	6	1	1	3	65	251	316
PCT	.3	.0	1.3	3.2	9.8	2.5	1.9	.3	.3	.9	20.6	79.4	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
00&03	.4	.0	.9	1.3	27.0	70.4	230
06&09	.0	.4	1.1	.4	38.2	59.9	262
12&15	.0	.7	.7	1.3	29.5	67.8	149
18&21	.4	.4	1.1	2.6	39.2	56.2	265
TOT	2	3	8	13	310	569	906
PCT	.2	.3	1.0	1.4	34.2	62.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.1	3.2	6.5	17.2	76.3	93
06&09	.0	1.1	9.1	12.5	78.4	88
12&15	.0	1.6	3.3	21.3	75.4	61
18&21	.0	.0	1.9	15.1	83.0	53
TOT	1	5	17	48	230	295
PCT	.3	1.7	5.8	16.3	78.0	100.0

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	.0	.2	.0	.0	.0	1	.2
70/74	.0	.2	.0	.6	.6	.8	.2	.2	13	2.6
65/69	.2	.2	1.0	3.2	6.1	6.1	3.4	1.8	109	22.1
60/64	.0	.4	4.9	8.5	10.9	12.8	6.3	6.7	249	50.4
55/59	.0	.2	1.8	4.3	4.3	5.9	2.8	2.0	105	21.3
50/54	.0	.0	.0	.4	1.2	.0	1.2	.4	17	3.4
TOTAL	1	5	38	85	115	126	69	55	494	100.0
PCT	.2	1.0	7.7	17.2	23.3	25.5	14.0	11.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
.9	.1	.2	.2	.2	.3	.2	.7	.0	.0
5.8	1.0	1.2	1.9	2.8	3.8	3.6	1.7	.0	.2
4.2	4.0	1.4	2.7	11.6	13.4	8.4	3.8	.0	1.0
.9	.0	.4	.0	2.1	10.0	6.9	.9	.0	.0
.1	.0	.0	.0	.2	1.0	2.0	.1	.0	.0
11.8	5.1	3.1	4.8	16.9	28.7	21.2	7.2	.0	1.2

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	74	72	69	62	56	53	51	62.3	347
06&09	79	75	70	63	58	55	54	63.6	354
12&15	73	72	67	61	55	52	51	61.6	184
18&21	73	67	66	60	54	52	49	59.8	374
TOT	79	72	68	62	55	52	49	61.8	1259

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	23.4	26.2	27.6	7.0	15.2	70	145
06&09	.6	31.8	25.5	19.7	12.7	9.6	67	157
12&15	.0	32.6	25.6	26.7	10.5	4.7	66	86
18&21	.0	16.5	18.0	25.6	23.3	16.5	76	133
TOT	1	134	124	128	71	83	70	521

PERIOD: (PRIMARY) 1912-1970
(OVER-ALL) 1855-1970

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) 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	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.0	.3	.0	.2	3	.0	.5
6	.0	.0	.0	.0	.0	.3	.0	.0	2	.0	.3
4	.0	.0	.0	.0	.0	.5	.2	.0	4	.0	.6
3	.0	.0	.0	.0	.8	.3	.0	.0	7	.0	1.1
2	.0	.0	.2	.8	1.5	.3	.2	.0	19	.0	2.9
1	.0	.0	.3	.6	.2	.5	.2	.0	11	.0	1.7
0	.0	.0	.2	1.8	3.0	1.2	.0	.0	41	.0	6.2
-1	.0	.0	.5	3.5	2.9	.2	.0	.0	46	.0	6.9
-2	.0	.2	.9	5.1	3.6	.2	.0	.0	66	.2	9.8
-3	.2	.2	.6	3.8	3.9	.2	.0	.0	58	.3	8.4
-4	.0	.2	2.0	7.5	2.1	.0	.0	.0	78	.0	11.7
-5	.2	.3	3.8	7.4	.5	.2	.0	.0	81	.2	12.0
-6	.0	.6	2.3	3.9	.2	.0	.0	.0	46	.2	6.8
-7/-8	.0	1.4	7.4	6.8	.5	.0	.0	.0	106	.0	15.9
-9/-10	.3	2.1	5.0	1.5	.0	.0	.0	.0	59	.0	8.9
-11/-13	.0	2.9	1.2	.2	.0	.0	.0	.0	28	.0	4.2
-14/-16	.2	.5	.2	.3	.0	.0	.0	.0	7	.0	1.1
-17/-19	.0	.5	.0	.0	.0	.0	.0	.0	3	.0	.5
TOTAL	5		161		126		3			5	660
		57		286		26		1	665		
PCT	.8	8.6	24.2	43.0	18.9	3.9	.5	.2	100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.4	6.1	.4	.0	.0	.0	7.0
3-4	.0	.7	1.5	.0	.0	.0	2.2
5-6	.0	.0	.7	.0	.0	.0	.7
7	.0	.4	.4	.4	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	8.6	3.1	.4	.0	.0	12.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.0	.0	.0	.0	.9
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	1.0	.6	.0	.0	.0	1.5
5-6	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	.0	.6	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	2.1	1.5	.6	.0	.0	4.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	1.1	.0	.0	.0	.0	1.1
3-4	.0	1.2	.0	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.3	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.4	.0	.4
17-19	.0	.0	.0	.0	.8	.0	.8
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
TOT PCT	.0	3.2	.0	.3	1.2	.0	4.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.4	.2	.0	.0	.0	1.7
3-4	.0	.6	1.8	.0	.0	.0	2.3
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.1	.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
TOT PCT	.0	2.0	2.9	.0	.1	.0	5.0

JULY

PERIOD: (OVER-ALL) 1963-1970

AREA 0006 COFFS HARBOUR
30.3S 153.2E

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.9	3.3	2.3	.0	.0	.0	6.5
3-4	.0	.4	3.8	.9	.0	.0	5.1
5-6	.0	.0	3.5	.8	.0	.0	4.3
7	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.8	.9	.0	1.7
12	.0	.0	.0	.3	.0	.0	.3
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
TOT PCT	.9	4.1	10.4	3.2	.9	.0	19.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.4	1.0	.0	.0	.0	2.9
1-2	.9	5.0	2.0	.0	.0	.0	7.9
3-4	.0	1.3	6.3	.0	.0	.0	7.6
5-6	.0	.0	5.0	.6	.0	.0	5.5
7	.0	.0	1.4	2.2	.0	.0	3.7
8-9	.0	.0	.0	.9	.0	.0	.9
10-11	.0	.0	.4	.6	.0	.0	1.0
12	.0	.0	.0	.6	.0	.0	.6
13-16	.0	.0	.0	.0	.4	.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
TOT PCT	1.3	7.7	16.2	4.8	.4	.0	30.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.8	.3	.0	.0	.0	2.0
1-2	.0	4.4	.8	.0	.0	.0	5.2
3-4	.0	1.8	5.1	.0	.0	.0	6.9
5-6	.0	.0	1.2	.3	.0	.0	1.5
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.9	7.0	7.7	.8	.0	.0	16.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.4	.0	.0	.0	.0	.4	
1-2	.0	1.0	.9	.0	.0	.0	1.9	
3-4	.0	.6	1.3	.0	.0	.0	1.9	
5-6	.0	.0	.6	.1	.0	.0	.7	
7	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	2.0	2.9	.1	.0	.0	5.0	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.9	5.7	1.3	.0	.0	.0	11.0	
1-2	2.2	23.2	6.6	.0	.0	.0	32.0	
3-4	.0	7.5	20.2	.9	.0	.0	28.5	
5-6	.0	.0	12.3	1.8	.0	.0	14.0	
7	.0	.4	3.5	3.5	.0	.0	7.5	
8-9	.0	.0	.0	1.8	.0	.0	1.8	
10-11	.0	.0	.4	1.3	.9	.0	2.6	
12	.0	.0	.0	.9	.0	.0	.9	
13-16	.0	.0	.0	.0	.9	.0	.9	
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	
								228
TOT PCT	6.1	36.8	44.3	10.1	2.6	.0	100.0	

PERIOD: (OVER-ALL) 1949-1970

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	1.4	7.9	9.4	5.4	.4	.4	.4	.7	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	4
6-7	.0	1.1	6.8	7.2	8.3	4.0	1.8	.4	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	86	6
8-9	.0	.7	4.7	3.2	8.6	4.3	2.2	2.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	7
10-11	.0	.0	.4	1.4	2.5	1.4	.7	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	8
12-13	.0	.0	.4	.7	.4	.4	.0	.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	16
INDET	.7	.7	1.1	1.8	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	4
TOTAL	6	29	63	55	58	29	14	12	8	4	0	0	0	0	0	0	0	0	0	278	6
PCT	2.2	10.4	22.7	19.8	20.9	10.4	5.0	4.3	2.9	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1908-1969
(OVER-ALL) 1860-1969

AREA 0006 COFFS HARBOUR
30.2S 153.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	8.5	.9	1.7	.0	.0	.0	.0	11.1	1.5	3.6	.0	.0	3.4	.0		82.5
NE	16.2	3.7	.0	.0	.0	.0	.0	19.9	1.8	3.3	3.0	.0	1.5	.0		73.4
E	9.8	3.9	6.3	.0	.0	.0	.0	20.0	2.0	2.9	2.0	.0	2.0	.0		74.1
SE	3.5	19.5	1.5	.0	.0	.0	.0	24.5	1.2	2.4	2.4	.0	.3	.0		70.5
S	2.3	10.0	.8	.0	.0	.0	.0	13.2	.7	.7	.3	.0	.5	.0		85.3
SW	2.8	4.5	.7	.0	.0	.0	.0	8.0	.6	.0	2.0	0	.3	.0		89.2
W	1.4	.0	.5	.0	.0	.0	.0	1.9	.0	1.7	.0	.0	2.9	.0		93.5
NW	1.3	.0	1.9	.0	.0	.0	.0	3.2	.0	1.6	1.3	.0	.6	.0		93.3
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	16.7	.0	.0	.0	.0		83.3
TOT PCT	4.8	5.4	1.3	.0	.0	.0	.0	11.5	.8	1.8	1.2	.0	1.3	.0		84.3
TOT OBS:	837															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.2	6.3	.9	.0	.0	.0	.0	9.4	.9	.4	1.3	.0	2.2	.0		86.2
06&09	4.3	3.9	1.6	.0	.0	.0	.0	9.7	1.2	.8	1.9	.0	1.9	.0		84.4
12&15	5.8	5.8	.0	.0	.0	.0	.0	11.5	.7	4.3	2.2	.0	.0	.0		84.2
18&21	7.1	5.9	2.1	.0	.0	.0	.0	15.1	.8	2.5	.0	.0	.8	.0		81.9
TOT PCT	4.8	5.4	1.3	.0	.0	.0	.0	11.4	.9	1.7	1.3	.0	1.4	.0		84.1
TOT OBS:	858															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	6.1	4.8	1.0	.1	.0		13.1	11.0	11.1	9.9	16.0	18.7	18.9	14.6	11.0	10.4
NE	.7	3.9	1.6	.5	*	.0		6.7	9.8	2.5	4.0	12.1	6.0	15.4	7.6	7.9	1.8
E	1.1	3.2	1.3	.6	.1	.1		6.4	10.7	4.5	7.1	9.5	8.9	1.8	8.7	4.4	3.3
SE	.6	3.7	3.4	1.8	.5	.3		10.2	15.4	3.5	11.2	13.2	16.7	3.5	12.2	7.1	7.8
S	.7	6.4	7.5	2.9	.5	.0		18.0	14.0	18.8	19.2	23.7	21.3	16.7	14.6	13.9	14.1
SW	1.1	8.0	7.5	3.3	.6	.1		20.5	14.0	34.2	23.1	11.5	14.4	19.3	17.0	22.4	26.4
W	1.0	6.3	3.9	1.1	.2	.1		12.6	11.4	17.1	11.0	6.5	5.5	7.0	12.8	17.9	20.1
NW	.6	6.5	3.0	.7	*	.0		10.9	10.3	8.4	12.8	6.3	7.8	14.0	9.7	13.2	14.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0	.0	1.6	1.3	.6	3.5	2.8	2.1	1.5
TOT OBS	116	608	455	163	28	7	1377		12.3	101	254	235	154	57	144	234	198
TOT PCT	8.4	44.2	33.0	11.8	2.0	.5		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.9	6.5	2.6	.1	.0		13.1	11.0	10.3	17.0	15.8	10.7
NE	2.7	3.0	.9	.2	.0		6.7	9.8	3.6	9.7	9.8	5.1
E	2.7	2.5	.9	.4	.1		6.4	10.7	6.3	9.3	6.7	3.9
SE	2.1	4.5	2.4	.8	.4		10.2	15.4	9.0	14.6	9.7	7.4
S	2.8	9.5	4.7	.8	.1		18.0	14.0	19.1	22.8	15.2	14.0
SW	4.4	8.4	6.4	1.2	.1		20.5	14.0	26.3	12.7	17.7	24.2
W	4.1	6.1	1.7	.5	.2		12.6	11.4	12.7	6.1	11.2	18.9
NW	3.2	5.9	1.5	.2	.0		10.9	10.3	11.5	6.9	10.9	13.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	1.1	1.0	3.0	1.9
TOT OBS	377	638	291	58	13	1377		12.3	355	389	201	432
TOT PCT	27.4	46.3	21.1	4.2	.9		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1908-1969
(OVER-ALL) 1860-1969

AREA 0006 COFFS HARBOUR
30.2S 153.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.1	5.9	45.9	34.1	11.0	2.0	.0	12.1	100.0	355
06&09	1.0	10.0	39.8	34.2	12.9	1.3	.8	12.3	100.0	389
12&15	3.0	5.5	46.3	29.9	11.9	3.0	.5	12.5	100.0	201
18&21	1.9	5.3	45.6	32.6	11.6	2.3	.7	12.4	100.0	432
TOT	22	94	608	455	163	28	7	12.3		1377
PCT	1.6	6.8	44.2	33.0	11.8	2.0	.5		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.2	2.5	3.8	3.8		4.4
NE	2.7	1.7	3.4	2.4		4.7
E	1.9	.3	1.4	1.8		4.9
SE	1.4	1.4	1.6	.1		4.1
S	7.3	5.0	4.9	1.6		3.6
SW	10.8	4.4	3.6	1.4		2.7
W	11.2	1.2	1.0	.0		1.2
NW	6.2	1.2	2.0	.8		2.5
VAR	.0	.0	.0	.0		.0
CALM	1.2	.0	.8	.0		3.6
TOT OBS	124	46	58	31	259	3.3
TOT PCT	47.9	17.8	22.4	12.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	2.2	2.2	.4	.3	.2	.7	.0	9.3	
NE	.0	.0	.4	.1	1.5	.4	.1	.2	.0	.4	7.1	
E	.0	.0	.0	.7	.4	.8	.0	.0	.0	.0	3.6	
SE	.0	.0	.0	.1	.8	.0	.0	.0	.0	.0	3.7	
S	.0	.0	.0	.9	3.1	.0	.0	.0	.0	.4	14.6	
SW	.0	.0	.0	.3	1.5	1.2	.8	.0	.0	.0	16.5	
W	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	12.6	
NW	.0	.0	.0	.4	.6	.8	.0	.4	.1	.0	7.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	1.2	
TOT OBS	0	0	1	12	30	9	3	2	2	2	198	259
TOT PCT	.0	.0	.4	4.6	11.6	3.5	1.2	.8	.8	.8	76.4	100.0

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 >50YD	= OR >0
= OR >6500	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >5000	1.9	1.9	2.3	2.3	2.3	2.3	2.3	2.3
= OR >3500	3.1	3.1	3.4	3.4	3.4	3.4	3.4	3.4
= OR >2000	6.5	6.5	6.9	6.9	6.9	6.9	6.9	6.9
= OR >1000	15.3	18.7	19.1	19.1	19.1	19.1	19.1	19.1
= OR >600	16.8	22.5	23.7	23.7	23.7	23.7	23.7	23.7
= OR >300	16.8	22.9	24.0	24.0	24.0	24.0	24.0	24.0
= OR >150	16.8	22.9	24.0	24.0	24.0	24.0	24.0	24.0
= OR > 0	16.8	22.9	24.0	24.0	24.0	24.0	24.0	24.0
TOTAL	44	60	63	63	63	63	63	63

TOTAL NUMBER OF OBS: 262 PCT FREQ NH <5/8: 76.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
16.9	30.5	12.9	10.5	6.2	2.8	5.2	6.5	8.6	.0	325

PERIOD: (PRIMARY) 1908-1969
(OVER-ALL) 1860-1969

AREA 0006 COFFS HARBOUR
30.25 153.3E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.2	.1	.2	.1	.1	.0	.0	.0	.0	.7	
	TOT %	.0	.2	.1	.2	.1	.1	.0	.0	.0	.0	.7	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	.1	.1	.0	.0	.1	.1	.2	.0	.0	.7	
	TOT %	.2	.1	.1	.0	.0	.1	.1	.2	.0	.0	.7	
2<5	PCP	.2	.2	.0	.2	.1	.2	.0	.1	.0	.0	1.0	
	NO PCP	.0	.0	.0	.1	.0	.2	.0	.0	.0	.0	.4	
	TOT %	.2	.2	.0	.3	.1	.5	.0	.1	.0	.0	1.3	
5<10	PCP	1.1	1.2	1.0	2.2	1.9	.9	.1	.1	.0	.0	8.5	
	NO PCP	4.7	2.0	2.2	4.7	6.5	5.8	4.4	3.6	.0	.1	33.9	
	TOT %	5.8	3.2	3.2	6.9	8.4	6.7	4.4	3.7	.0	.1	42.4	
10+	PCP	.2	.2	.2	.1	.4	.5	.2	.1	.0	.0	2.0	
	NO PCP	7.6	4.2	2.5	2.5	9.0	13.4	7.7	5.2	.0	.6	52.7	
	TOT %	7.9	4.5	2.7	2.7	9.4	13.9	7.9	5.3	.0	.6	54.7	
	TOT OBS												837
	TOT PCT	14.0	8.1	6.1	10.1	17.9	21.2	12.4	9.4	.0	.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	
	4-10	.0	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.2	.1	.2	.1	.1	.0	.0	.0	.0	.6	
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.2	.1	.0	.0	.0	.1	.1	.1	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.1	.1	.0	.0	.1	.1	.2	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.2	.0	.0	.0		.2	
	11-21	.3	.2	.0	.3	.1	.1	.0	.1	.0		.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.2	.0	.3	.1	.4	.0	.1	.0	.0	1.2	
5<10	0-3	1.0	.4	.8	.1	.1	.4	.2	.4	.0	.1	3.4	
	4-10	2.0	1.5	1.3	1.4	2.4	2.0	2.0	2.1	.0		14.8	
	11-21	1.8	.5	.4	2.5	3.7	2.2	1.4	.8	.0		13.2	
	22+	.6	.3	.4	2.0	1.4	1.3	.3	.2	.0		6.4	
	TOT %	5.3	2.7	2.9	6.1	7.5	5.9	3.9	3.4	.0	.1	37.8	
10+	0-3	.4	.4	.6	.1	.4	.6	.6	.2	.0	.9	4.1	
	4-10	3.8	2.7	1.6	1.9	3.8	5.9	4.3	3.4	.0		27.5	
	11-21	3.2	1.1	.4	.5	5.0	6.7	2.9	2.0	.0		21.7	
	22+	.7	.3	.1	.1	1.4	2.6	.9	.2	.0		6.3	
	TOT %	8.1	4.5	2.7	2.6	10.5	15.8	8.8	5.8	.0	.9	59.6	
	TOT OBS												968
	TOT PCT	13.8	7.7	5.8	9.1	18.2	22.2	12.7	9.5	.0	1.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1908-1969
(OVER-ALL) 1860-1969

AREA 0006 COFFS HARBOUR
30.2S 153.3E

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
00&03	.0	.0	.0	4.6	7.3	1.6	.9	.0	.0	.0	14.7	85.3	109
06&09	.0	.0	.0	4.4	11.0	4.4	2.2	1.1	1.1	1.1	25.3	74.7	91
12&15	.0	.0	.0	1.9	17.0	3.8	.0	.0	1.9	1.9	26.4	73.6	53
18&21	.0	.0	1.7	3.3	8.3	1.7	.0	1.7	.0	.0	16.7	83.3	60
TOT	0	0	1	12	32	9	3	2	2	2	63	250	313
PCT	.0	.0	.3	3.8	10.2	2.9	1.0	.6	.6	.6	20.1	79.9	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
00&03	.0	.8	1.6	.8	29.8	67.1	252
06&09	.0	1.0	.3	1.4	42.6	54.5	290
12&15	.7	.7	.0	.0	38.4	60.3	151
18&21	.0	.0	.7	2.0	41.2	56.1	296
TOT	1	6	7	12	379	584	989
PCT	.1	.6	.7	1.2	38.3	59.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	5.3	11.6	83.2	95
06&09	.0	.0	5.1	24.4	70.5	78
12&15	.0	.0	2.2	28.9	68.9	45
18&21	.0	2.3	9.1	13.6	77.3	44
TOT	0	1	14	49	199	262
PCT	.0	.4	5.3	18.7	76.0	100.0

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	.6	.4	1.7	.8	.4	.2	20	4.2
65/69	.0	.2	2.1	2.7	4.8	7.5	4.0	1.9	111	23.1
60/64	.0	.2	4.2	7.7	12.5	12.9	8.8	4.4	243	50.6
55/59	.0	.0	1.3	2.5	4.4	4.6	4.6	1.9	92	19.2
50/54	.0	.0	.0	.4	.8	.4	.4	.8	14	2.9
TOTAL	0	2	39	66	116	126	87	44	480	100.0
PCT	.0	.4	8.1	13.8	24.2	26.3	18.1	9.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.4	.6	.2	.5	.5	.3	.1	.6	.0	.0
6.7	4.1	1.2	1.4	2.8	1.4	2.0	3.6	.0	.0
5.4	3.2	3.1	2.6	10.7	13.2	7.2	4.5	.0	.6
1.0	.9	.4	.2	2.9	6.1	4.7	2.7	.0	.2
.2	.0	.0	.2	.1	1.3	1.0	.1	.0	.0
14.7	8.8	4.9	4.8	17.0	22.3	15.1	11.5	.0	.8

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	74	73	70	63	56	53	49	62.6	344
06&09	79	73	70	63	57	51	47	63.4	387
12&15	70	69	67	62	56	51	51	61.9	205
18&21	70	69	67	61	54	52	50	60.6	431
TOT	79	72	69	62	56	52	47	62.1	1367

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	19.2	25.8	27.8	17.9	9.3	71	151
06&09	.0	28.6	27.9	25.9	13.6	4.1	67	147
12&15	.0	25.0	21.1	31.6	14.5	7.9	70	76
18&21	.0	14.9	19.8	23.1	27.3	14.9	75	121
TOT	0	108	120	132	91	44	70	495

PERIOD: (PRIMARY) 1908-1969
(OVER-ALL) 1860-1969

AREA 0006 COFFS HARBOUR
30.2S 153.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
9/10	.0	.0	.0	.0	.1	.0	.1	.0	2	.0	.3
7/8	.0	.0	.0	.0	.0	.3	.0	.1	3	.0	.4
6	.0	.0	.0	.1	.1	.0	.0	.0	2	.0	.3
5	.0	.0	.0	.1	.0	.7	.0	.0	6	.0	.8
4	.0	.0	.1	.3	.4	.8	.0	.0	12	.0	1.7
3	.0	.0	.0	.1	.8	.6	.3	.0	13	.0	1.8
2	.0	.0	.0	.6	1.4	.7	.0	.0	19	.0	2.6
1	.0	.0	.4	1.1	1.7	1.5	.0	.0	34	.4	4.3
0	.0	.1	.8	1.8	3.5	.4	.0	.0	48	.0	6.6
-1	.0	.4	.6	2.2	5.0	.1	.0	.0	60	.1	8.1
-2	.0	.4	.7	6.2	2.6	.0	.0	.0	72	.0	9.9
-3	.0	.3	1.8	5.0	2.6	.0	.0	.0	70	.1	9.5
-4	.0	.3	2.1	6.4	2.8	.0	.0	.0	83	.3	11.2
-5	.0	.3	4.7	7.6	1.2	.1	.0	.0	101	.1	13.8
-6	.0	.4	3.3	4.6	.4	.0	.0	.0	63	.3	8.4
-7/-8	.0	1.1	4.7	3.5	.1	.0	.0	.0	68	.0	9.4
-9/-10	.0	1.5	3.3	1.5	.0	.0	.0	.0	46	.0	6.4
-11/-13	.6	1.0	.8	.1	.0	.0	.0	.0	18	.0	2.5
-14/-16	.3	.0	.0	.1	.0	.0	.0	.0	3	.0	.4
TOTAL	6	42	169	300	169	38	3	1	724	10	714
PCT	.8	5.8	23.3	41.4	22.8	5.2	.4	.1	100.0	1.4	98.6

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.0	.0	.0	.0	.0	[illegible]
1-2	.0	1.7	1.3	.0	.0	.0	3.0
3-4	.0	1.4	1.8	.0	.0	.0	[illegible]
5-6	.0	1.3	2.9	.4	.0	.0	4.5
7	.0	.0	.0	.4	.0	.0	.4
8-9	.0	.0	.5	.0	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.5	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	[illegible]	.0	.0	.0	.0	.0	.0
23-25	[illegible]	.0	.0	.0	.0	.0	.0
26-32	[illegible]	.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
TOT PCT	.5	6.5	6.5	.7	.5	.0	14.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.5	2.6	.5	.0	.0	.0	3.6
3-4	.0	1.4	2.2	.0	.0	.0	3.6
5-6	.0	.1	1.9	1.1	.0	.0	3.1
7	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.5	5.5	4.5	1.2	.0	.0	11.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	.4	.0	.0	.0	.0	1.8
1-2	.0	2.3	.0	.0	.0	.0	2.3
3-4	.0	.5	.4	.0	.0	.0	.8
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.4	3.1	1.3	.0	.0	.0	5.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.1	.0	.0	.0	.0	1.6
1-2	.0	2.0	.6	.0	.0	.0	2.6
3-4	.0	.0	.2	.0	.0	.0	.2
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.5	3.1	1.0	.5	.0	.0	5.0

AUGUST

PERIOD: (OVER-ALL) 1963-1969

AREA 0006 COFFS HARBOUR
30.2S 153.3E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.2	.0	.0	.0	.0	2.0	.6	.7	.0	.0	.0	.0	1.3
1-2	.0	3.1	1.3	.0	.0	.0	4.4	.0	4.8	1.0	.0	.0	.0	5.7
3-4	.0	.5	4.2	.4	.0	.0	5.0	.0	2.5	3.0	.6	.0	.0	6.1
5-6	.0	.0	3.7	1.6	.0	.0	5.3	.0	.1	2.4	1.9	.0	.0	4.4
7	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	1.9	.0	.0	1.9
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	.5	.0	.0	.5
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
TOT PCT	.8	4.8	9.2	2.4	.0	.0	17.2	.6	8.1	6.3	4.9	.0	.0	20.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	1.0	2.2	.0	.0	.0	.0	3.1	.5	.2	.0	.0	.0	.0	.7	
1-2	.0	3.9	1.2	.0	.0	.0	5.1	.0	3.5	1.3	.0	.0	.0	4.8	
3-4	.0	1.8	1.7	.0	.0	.0	3.5	.0	1.9	.5	.0	.0	.0	2.4	
5-6	.0	.8	1.0	.4	.0	.0	2.2	.0	.5	1.0	.0	.0	.0	1.4	
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	
TOT PCT	1.0	8.7	3.8	.4	.0	.0	13.9	.5	6.1	2.8	.0	.0	.0	9.3	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.4	9.3	.0	.0	.0	.0	17.8	
1-2	.5	24.3	7.0	.0	.0	.0	31.8	
3-4	.0	9.8	13.6	.9	.0	.0	24.3	
5-6	.0	2.8	13.1	5.1	.0	.0	21.0	
7	.0	.0	.5	2.8	.0	.0	3.3	
8-9	.0	.0	.5	.5	.0	.0	.9	
10-11	.0	.0	.0	.5	.0	.0	.5	
12	.0	.0	.0	.0	.5	.0	.5	
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	
								214
TOT PCT	8.9	46.3	34.6	9.8	.5	.0	100.0	

PERIOD: (OVER-ALL) 1949-1969

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	7.5	11.1	6.7	2.8	.4	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	3
6-7	.0	.4	8.7	7.5	7.9	2.4	1.6	.4	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	76	6
8-9	.0	.0	2.0	5.5	8.3	4.3	.8	.4	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	7
10-11	.0	.4	1.2	1.6	2.4	1.2	.8	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	7
12-13	.0	.0	.0	.4	.0	.0	.0	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	12
>13	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	2.8	.4	.4	.4	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	3
TOTAL	15	22	59	56	54	22	8	7	9	1	0	0	0	0	0	0	0	0	0	253	5
PCT	5.9	8.7	23.3	22.1	21.3	8.7	3.2	2.8	3.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1910-1970
(OVER-ALL) 1872-1970

AREA 0006 COFFS HARBOUR
30.3S 153.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.8	6.8	1.2	.0	.0	.0	.0	11.8	.0	2.7	3.0	.0	4.4		.0	78.7
NE	1.6	2.7	2.2	.0	.0	.0	.0	6.5	2.2	1.1	7.6	.0	4.3		.0	78.3
E	5.6	7.8	1.1	.0	.0	.0	.0	14.4	.0	2.2	3.3	.0	2.2		.0	80.0
SE	10.6	7.3	1.6	.0	.0	.0	.0	19.6	.0	1.6	.0	.0	1.6		.0	78.8
S	3.9	6.8	3.9	.0	.0	.0	.0	14.7	1.4	.0	.8	.0	.8		.0	82.4
SW	3.4	4.0	1.5	.0	.0	.0	.0	8.9	.9	4.5	1.9	.0	4.0		.0	79.8
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	3.9	.0	4.3		.0	85.5
NW	.7	1.5	.7	.0	.0	.0	.0	2.9	1.5	2.2	5.1	.0	9.5		.0	78.9
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	12.5	.0	.0		.0	87.5
TOT PCT	3.5	4.8	1.7	.0	.0	.0	.0	10.0	.8	2.5	3.1	.0	3.8		.0	80.2
TOT OBS:	768															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.5	3.0	1.5	.0	.0	.0	.0	8.0	1.5	.0	3.5	.0	6.5		.0	80.4
06&09	1.8	8.3	2.8	.0	.0	.0	.0	12.8	.5	.9	3.7	.0	4.1		.0	78.0
12&15	5.6	5.6	2.1	.0	.0	.0	.0	13.2	.7	8.3	2.1	.0	1.4		.0	76.4
18&21	3.8	3.8	.4	.0	.0	.0	.0	8.1	.4	2.6	4.7	.0	2.1		.0	82.5
TOT PCT	3.5	5.2	1.6	.0	.0	.0	.0	10.3	.8	2.5	3.6	.0	3.6		.0	79.6
TOT OBS:	795															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	7.6	10.3	1.4	.7	.0		21.2	13.0	20.7	20.7	18.7	25.8	25.3	23.0	22.7	17.5
NE	.7	6.4	4.8	.5	.1	.0		12.4	10.8	6.4	10.1	25.4	11.3	12.0	9.7	10.4	7.0
E	.6	3.4	1.2	.5	.0	.0		5.8	10.1	4.5	4.8	9.9	11.1	5.2	3.6	3.4	2.8
SE	.4	3.8	3.5	.8	.5	.0		9.0	13.5	6.6	8.3	15.5	14.9	3.9	9.7	5.4	4.1
S	.7	5.9	7.0	2.8	.3	.0		16.6	14.2	15.5	21.7	16.4	18.3	20.1	18.1	9.8	14.8
SW	.5	6.0	6.1	2.0	.4	.0		15.1	14.1	23.9	12.8	8.7	5.3	15.3	17.3	21.2	20.1
W	.7	4.6	2.3	.3	.0	.0		7.8	9.7	9.3	7.1	1.1	1.9	6.2	9.7	11.8	16.2
NW	.8	6.1	2.8	.9	*	.0		10.6	10.5	11.4	11.9	3.9	10.7	12.0	8.9	14.0	14.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0	1.8	2.7	.4	.8	.0	.0	1.5	3.2
TOT OBS	91	567	491	119	26	0	1294		12.3	110	226	241	131	77	124	198	187
TOT PCT	7.0	43.8	37.9	9.2	2.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.5	11.0	4.5	1.0	.2		21.2	13.0	20.7	21.2	23.9	20.2
NE	3.3	7.1	1.6	.3	.0		12.4	10.8	8.9	20.4	10.6	8.7
E	1.8	3.2	.4	.4	.0		5.8	10.1	4.7	10.3	4.2	3.1
SE	1.9	5.0	.9	1.0	.2		9.0	13.5	7.7	15.3	7.5	4.8
S	2.6	8.2	4.4	1.3	*		16.6	14.2	19.6	17.1	18.9	12.3
SW	2.1	7.9	3.7	1.4	*		15.1	14.1	16.4	7.5	16.5	20.6
W	2.5	4.2	1.0	.1	.0		7.8	9.7	7.8	1.4	8.3	13.8
NW	3.7	4.8	1.9	.3	.0		10.6	10.5	11.8	6.3	10.1	14.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	2.4	.5	.0	2.3
TOT OBS	309	667	239	74	5	1294		12.3	336	372	201	385
TOT PCT	23.9	51.5	18.5	5.7	.4		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1910-1970
(OVER-ALL) 1872-1970

AREA 0006 COFFS HARBOUR
30.3S 153.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.4	7.7	47.9	33.6	6.8	1.5	.0	11.2	100.0	336
06&09	.5	4.6	41.1	41.1	9.1	3.5	.0	13.1	100.0	372
12&15	.0	4.5	41.3	38.8	13.9	1.5	.0	13.2	100.0	201
18&21	2.3	5.2	44.2	38.2	8.8	1.3	.0	11.9	100.0	385
TOT	19	72	567	491	119	26	0	12.3		1294
PCT	1.5	5.6	43.8	37.9	9.2	2.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	15.7	3.4	3.3	1.6		2.1
NE	6.9	2.3	3.9	1.3		3.2
E	1.1	.8	3.7	.3		4.8
SE	3.5	1.0	1.8	.4		3.2
S	6.1	3.7	4.0	1.5		3.6
SW	8.6	3.7	4.8	1.0		3.2
W	4.0	1.1	.9	.0		1.9
NW	6.1	.7	1.0	.6		2.1
VAR	.0	.0	.0	.0		.0
CALM	.6	.0	.3	.0		3.0
TOT OBS	166	53	75	21	315	2.9
TOT PCT	52.7	16.8	23.8	6.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.8	2.7	.6	.2	.0	.0	.0	19.8	
NE	.0	.0	.0	1.0	.6	.6	.4	.0	.0	.0	11.7	
E	.0	.0	.0	.6	.9	.6	.3	.0	.0	.0	3.4	
SE	.0	.0	.0	.4	.4	.4	.0	.0	.0	.0	5.6	
S	.0	.0	.0	1.4	1.4	.9	.0	.0	.0	.3	11.3	
SW	.0	.0	.0	1.3	2.5	.0	.0	.3	.0	.0	14.0	
W	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	5.8	
NW	.0	.0	.0	.5	.5	.1	.0	.0	.0	.0	7.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.6	
TOT OBS	0	0	0	19	29	10	4	1	0	1	251	315
TOT PCT	.0	.0	.0	6.0	9.2	3.2	1.3	.3	.0	.3	79.7	100.0

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 >50YD	= OR >0
= OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
= OR >5000	.9	.9	.9	.9	.9	.9	.9	.9
= OR >3500	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
= OR >2000	5.3	5.6	5.6	5.6	5.6	5.6	5.6	5.6
= OR >1000	13.7	14.9	15.2	15.2	15.2	15.2	15.2	15.2
= OR >600	17.7	20.2	21.1	21.1	21.1	21.1	21.1	21.1
= OR >300	17.7	20.2	21.1	21.1	21.1	21.1	21.1	21.1
= OR >150	17.7	20.2	21.1	21.1	21.1	21.1	21.1	21.1
= OR > 0	17.7	20.2	21.1	21.1	21.1	21.1	21.1	21.1
TOTAL	57	65	68	68	68	68	68	68

TOTAL NUMBER OF OBS: 322 PCT FREQ NH <5/8: 78.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	.0	TOTAL OBS
23.4	21.3	13.9	9.9	8.8	5.7	6.0	6.3	4.3	.0	352

PERIOD: (PRIMARY) 1910-1970
(OVER-ALL) 1872-1970

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.3	.0	.0	.0	.0	.1	.0	.0	.1	.5	
	TOT %	.0	.3	.0	.0	.1	.0	.1	.0	.0	.1	.7	
1/2<1	PCP	.8	.1	.0	.1	.1	.1	.0	.1	.0	.0	1.3	
	NO PCP	.5	.7	.2	.0	.1	.2	.2	.1	.0	.0	2.0	
	TOT %	1.2	.8	.2	.1	.2	.3	.2	.3	.0	.0	3.3	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.0	.0	.1	.2	.2	.5	.0	.0	1.0	
	TOT %	.1	.0	.0	.0	.1	.2	.2	.5	.0	.0	1.0	
2<5	PCP	.1	.1	.1	.1	.2	.2	.0	.0	.0	.0	.7	
	NO PCP	.1	.1	.1	.0	.0	.4	.0	.1	.0	.0	.8	
	TOT %	.3	.1	.1	.1	.2	.6	.0	.1	.0	.0	1.4	
5<10	PCP	1.3	.5	.7	1.2	1.7	.8	.0	.0	.0	.0	6.1	
	NO PCP	5.8	3.0	1.4	1.8	4.9	4.4	2.5	2.9	.0	.5	27.2	
	TOT %	7.1	3.5	2.1	3.0	6.6	5.3	2.5	2.9	.0	.5	33.3	
10+	PCP	.4	.1	.1	.3	.4	.4	.0	.1	.0	.0	1.8	
	NO PCP	13.0	7.2	3.3	4.6	9.0	10.5	5.3	5.1	.0	.4	58.5	
	TOT %	13.3	7.4	3.5	4.9	9.4	10.9	5.3	5.2	.0	.4	60.3	
	TOT OBS												768
	TOT PCT	22.0	12.0	5.9	8.0	16.6	17.3	8.3	9.0	.0	1.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.2	
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.1	.0	.0	.1	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.0	.0	.1	.0	.1	.0	.0	.1	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.2	.2	.0	.1	.1	.2	.0	.0		.9	
	11-21	.2	.2	.0	.0	.1	.1	.0	.0	.0		.6	
	22+	.6	.3	.0	.1	.1	.1	.0	.2	.0		1.3	
	TOT %	1.0	.7	.2	.1	.2	.3	.2	.2	.0	.0	2.8	
1<2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	4-10	.1	.0	.0	.0	.0	.1	.1	.3	.0		.4	
	11-21	.0	.0	.0	.1	.1	.1	.1	.1	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	.1	.1	.3	.2	.4	.0	.0	1.1	
2<5	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.0	.0	.0	.2	.0	.1	.0		.6	
	11-21	.2	.0	.0	.1	.1	.1	.0	.0	.0		.4	
	22+	.0	.1	.1	.0	.1	.1	.0	.0	.0		.4	
	TOT %	.3	.2	.1	.2	.1	.5	.0	.1	.0	.0	1.5	
5<10	0-3	.7	.3	.1	.1	.3	.2	.3	.2	.0	.4	2.5	
	4-10	1.7	1.8	1.3	1.2	2.8	2.0	.9	1.4	.0		13.0	
	11-21	3.1	1.1	.6	1.4	2.6	2.0	1.0	.8	.0		12.5	
	22+	.9	.1	.0	.2	.6	.9	.0	.2	.0		3.0	
	TOT %	6.3	3.3	1.9	2.9	6.2	5.1	2.3	2.6	.0	.4	31.0	
10+	0-3	.4	.2	.2	.1	.2	.2	.3	.2	.0	.6	2.5	
	4-10	5.0	4.7	2.5	3.1	2.9	4.4	3.2	3.6	.0		29.4	
	11-21	7.7	3.4	.8	1.9	5.1	4.9	1.5	1.2	.0		26.5	
	22+	.6	.1	.0	.1	1.8	1.6	.2	.2	.0		4.6	
	TOT %	13.8	8.4	3.5	5.2	10.0	11.1	5.2	5.3	.0	.6	63.1	
	TOT OBS												907
	TOT PCT	21.6	12.8	5.7	8.4	16.8	17.2	7.9	8.6	.0	1.1	100.0	

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PERIOD: (PRIMARY) 1910-1970
(OVER-ALL) 1872-1970

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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
00&03	.0	.0	.0	8.5	7.5	4.7	.9	.0	.0	.0	21.7	78.3	106
06&09	.0	.0	.0	.0	11.7	3.2	1.1	1.1	.0	1.1	18.1	81.9	94
12&15	.0	.0	.0	12.5	8.3	2.8	1.4	.0	.0	1.4	26.4	73.6	72
18&21	.0	.0	.0	1.4	8.6	1.4	1.4	.0	.0	.0	12.9	87.1	70
TOT	0	0	0	19	31	11	4	1	0	2	68	274	342
PCT	.0	.0	.0	5.6	9.1	3.2	1.2	.3	.0	.6	19.9	80.1	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
00&03	.9	3.5	1.3	2.2	24.8	67.4	230
06&09	.4	4.2	1.5	.4	32.4	61.0	259
12&15	.0	1.3	.6	1.3	29.5	67.3	156
18&21	.7	3.5	.7	2.1	36.7	56.4	289
TOT	5	31	10	14	293	581	934
PCT	.5	3.3	1.1	1.5	31.4	62.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	11.1	14.1	74.7	99
06&09	.0	.0	1.1	18.0	80.9	89
12&15	.0	.0	12.9	14.3	72.9	70
18&21	.0	.0	4.7	12.5	82.8	64
TOT	0	0	24	48	250	322
PCT	.0	.0	7.5	14.9	77.6	100.0

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
80/84	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
75/79	.0	.0	.0	.4	.4	.8	.0	.0	8	1.6
70/74	.0	.2	1.4	1.2	2.7	3.9	3.9	.6	68	14.0
65/69	.0	.2	1.2	4.5	11.1	11.3	11.5	4.5	216	44.4
60/64	.0	.6	1.6	3.1	8.6	11.7	5.7	1.8	162	33.3
55/59	.0	.0	.8	1.0	1.2	.8	1.6	.6	30	6.2
50/54	.0	.0	.0	.2	.2	.0	.0	.0	2	.4
TOTAL	0	5	25	51	119	139	111	37	487	100.0
PCT	.0	1.0	5.1	10.5	24.4	28.5	22.8	7.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
.6	.1	.0	.0	.2	.0	.2	.5	.0	.0
4.9	2.4	.6	.6	.6	1.1	.6	3.0	.0	.2
10.1	7.9	3.4	3.7	6.0	6.5	2.2	4.3	.0	.2
5.4	1.3	2.1	2.7	7.0	7.4	5.1	1.3	.0	1.0
.4	.0	.0	.1	1.5	3.6	.6	.1	.0	.0
.0	.0	.0	.0	.0	.4	.0	.0	.0	.0
21.4	11.9	6.1	7.1	15.3	19.0	8.7	9.1	.0	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	76	75	73	66	59	57	57	66.1	331
06&09	80	76	73	66	59	56	55	66.1	376
12&15	75	73	70	64	58	55	54	64.3	203
18&21	80	73	69	64	57	55	54	63.4	386
TOT	80	75	72	65	58	55	54	65.0	1296

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	16.3	24.8	32.6	19.1	7.1	71	141
06&09	.0	22.8	29.4	25.7	16.2	5.9	69	136
12&15	.0	13.2	22.0	33.0	17.6	14.3	74	91
18&21	.0	13.5	20.3	23.3	36.1	6.8	74	133
TOT	0	84	122	142	113	40	72	501

PERIOD: (PRIMARY) 1910-1970
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.3	.1	.0	3	.0	.4
7/8	.0	.0	.1	.0	.4	.6	.0	8	.0	1.2
6	.0	.0	.0	.0	.3	.6	.0	6	.0	.9
5	.0	.0	.1	.3	.9	.4	.0	12	.1	1.6
4	.0	.1	.4	.7	1.5	.7	.0	24	.0	3.5
3	.0	.0	.3	1.0	1.6	.9	.1	27	.3	3.6
2	.0	.0	.9	3.2	2.9	.7	.0	53	1.2	6.6
1	.0	.3	.3	3.8	3.8	.4	.0	59	1.0	7.6
0	.0	.3	2.0	5.8	2.5	.0	.0	73	.3	10.3
-1	.0	.4	3.4	8.3	1.2	.0	.0	91	.3	13.0
-2	.0	.4	5.8	5.2	.3	.0	.0	81	.0	11.8
-3	.1	.3	3.5	4.1	.6	.1	.0	60	.3	8.5
-4	.1	.6	4.8	1.6	.4	.0	.0	52	.1	7.4
-5	.1	1.5	3.4	.7	.0	.0	.0	39	.1	5.5
-6	.1	2.2	2.2	1.3	.1	.0	.0	41	.0	6.0
-7/-8	.4	2.0	2.0	.4	.0	.0	.0	34	.0	5.0
-9/-10	.3	.7	1.3	.0	.0	.0	.0	16	.0	2.3
-11/-13	.1	.9	.0	.0	.0	.0	.0	7	.0	1.0
TOTAL	10	67	210	251	115	32	1	686	26	660
PCT	1.5	9.8	30.6	36.6	16.8	4.7	.1	100.0	3.8	96.2

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.8	.0	.0	.0	2.2
1-2	.0	3.7	3.9	.0	.0	.0	7.6
3-4	.0	2.4	6.0	.0	.0	.0	8.4
5-6	.0	.6	3.2	.0	.0	.0	3.8
7	.0	.0	.7	.4	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3
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
TOT PCT	.0	8.1	14.5	.7	.0	.0	23.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.8	.0	.0	.0	1.3
1-2	.0	4.4	1.5	.0	.0	.0	5.8
3-4	.0	1.6	3.3	.0	.0	.0	4.9
5-6	.0	.1	1.8	.0	.0	.0	1.9
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.1	6.5	7.8	.5	.0	.0	14.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.6	.0	.0	.0	.0	2.2
1-2	.0	1.6	.0	.0	.0	.0	1.6
3-4	.0	.4	.4	.0	.0	.0	.8
5-6	.0	.4	.8	.0	.0	.0	1.2
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.7	4.0	1.6	.0	.0	.0	6.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.0	1.8	.4	.0	.0	.0	2.2
3-4	.0	.8	1.7	.1	.0	.0	2.6
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	3.5	2.9	.1	.0	.0	6.5

PERIOD: (OVER-ALL) 1963-1970

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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	.6	.0	.0	.0	.0	.6
1-2	.0	1.5	.4	.0	.0	.0	1.8	.4	3.7	1.2	.0	.0	.0	5.2
3-4	.4	1.1	3.5	.3	.0	.0	5.2	.0	2.0	3.3	.0	.0	.0	5.3
5-6	.0	1.1	2.2	1.2	.0	.0	4.5	.0	.9	2.0	.8	.0	.0	3.7
7	.0	.0	.0	.8	.0	.0	.8	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.4	.4	.0	.0	.8	.0	.4	1.6	.4	.0	.0	2.3
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	1.2	.8	.0	.0	1.9
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.4	.0	.4
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
TOT PCT	.4	3.9	6.5	3.4	.0	.0	14.1	.4	7.6	9.6	1.9	.4	.0	19.9

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.4	.9	.0	.0	.0	.0	1.3	
1-2	.0	2.1	.4	.0	.0	.0	2.5	.0	3.7	.1	.0	.0	.0	3.8	
3-4	.0	.4	.0	.0	.0	.0	.4	.0	.6	1.6	.0	.0	.0	2.1	
5-6	.0	.7	.4	.0	.0	.0	1.1	.0	.1	1.6	.0	.0	.0	1.6	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
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	
TOT PCT	.0	3.5	1.1	.0	.0	.0	4.6	.4	5.2	3.7	.4	.0	.0	9.7	99.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.1	6.1	1.5	.0	.0	.0	10.7	
1-2	.4	22.1	7.6	.0	.0	.0	30.2	
3-4	.4	9.2	19.5	.4	.0	.0	29.4	
5-6	.0	4.2	11.8	1.9	.0	.0	17.9	
7	.0	.0	2.7	1.5	.0	.0	4.2	
8-9	.0	.4	2.3	1.1	.0	.0	3.8	
10-11	.0	.0	1.5	1.1	.0	.0	2.7	
12	.0	.0	.0	.8	.4	.0	1.1	
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	
								262
TOT PCT	3.8	42.0	46.9	6.9	.4	.0	100.0	

PERIOD: (OVER-ALL) 1949-1970

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	1.6	10.1	16.7	7.5	2.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	119	3
6-7	.0	2.0	7.5	11.4	6.5	2.3	.7	.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	5
8-9	.0	.3	7.0	4.2	3.3	2.9	2.9	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	7
10-11	.0	.0	.0	1.6	.3	1.0	.7	1.3	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	17	9
12-13	.0	.0	.7	.3	.3	.0	.0	.0	.3	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	8	11
>13	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
INDET	.3	.0	1.6	1.6	.7	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	5
TOTAL	6	38	87	82	42	21	14	7	4	3	2	0	0	0	0	0	0	0	0	306	5
PCT	2.0	12.4	28.4	26.8	13.7	6.9	4.6	2.3	1.3	1.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1870-1971

AREA 0006 COFFS HARBOUR
30.3S 153.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.9	2.5	.6	.0	.0	.0	.0	5.0	.9	5.3	2.8	.0	6.8	.0	80.4
NE	.4	1.3	.9	.0	.0	.0	.0	2.7	.9	2.9	.4	.0	4.2	.9	88.4
E	1.9	1.4	1.9	.0	.0	.0	.0	5.3	4.3	3.4	5.8	.0	1.9	.0	79.3
SE	2.8	7.4	.0	.0	.0	.0	.0	10.2	1.1	.4	.7	.0	1.8	.0	85.9
S	7.9	7.9	1.5	.0	.0	.0	.0	17.2	.5	5.5	2.2	.0	4.0	.0	72.7
SW	6.4	7.1	3.0	.0	.0	.0	.0	16.5	.4	1.9	2.2	.0	4.9	.0	74.2
W	.0	5.6	.0	.0	.0	.0	.0	5.6	.0	4.0	3.4	.0	11.3	.0	75.7
NW	3.5	1.2	.0	.0	.0	.0	.0	4.7	1.2	4.1	10.5	.0	5.8	.0	75.0
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	10.0	.0	90.0
TOT PCT	3.3	4.3	1.0	.0	.0	.0	.0	8.6	1.0	3.7	2.7	.0	5.0	.1	79.6
TOT OBS:	695														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.7	3.7	1.0	.0	.0	.0	.0	9.4	1.6	1.0	3.1	.0	6.8	.0	79.1
06&09	4.3	2.8	.9	.0	.0	.0	.0	8.1	.0	1.9	3.3	.0	6.2	.5	81.5
12&15	2.3	7.0	2.3	.0	.0	.0	.0	11.6	.8	11.6	2.3	.0	.8	.0	73.6
18&21	1.1	5.9	.0	.0	.0	.0	.0	7.0	1.6	3.2	2.2	.0	5.9	.0	80.1
TOT PCT	3.2	4.6	1.0	.0	.0	.0	.0	8.8	1.0	3.8	2.8	.0	5.3	.1	79.1
TOT OBS:	717														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.5	6.9	10.7	3.3	*	.0		22.4	13.5	24.3	25.4	19.0	21.8	29.6	22.1	22.2	18.6
NE	1.1	7.8	5.8	1.1	.0	.0		15.8	11.1	14.1	15.5	25.5	22.5	14.6	10.5	11.7	7.9
E	.4	5.1	1.6	.3	.1	.0		7.5	9.4	3.5	4.6	10.8	12.0	16.8	8.4	5.3	4.1
SE	.7	5.7	2.8	.6	*	.0		9.8	9.9	7.2	6.6	14.8	14.6	12.1	9.5	9.3	5.9
S	.7	5.4	8.3	2.7	.6	.0		17.7	14.9	19.6	21.7	18.7	19.4	11.4	17.4	13.3	15.9
SW	.6	4.4	4.8	1.3	.4	.0		11.4	13.2	11.6	14.2	5.8	4.2	9.3	12.6	11.4	20.5
W	.9	3.4	1.6	.6	.2	.1		6.7	10.9	6.4	5.1	.5	1.4	1.4	4.7	15.0	16.0
NW	.3	4.5	1.4	.3	.2	.1		6.8	10.8	9.4	5.5	3.5	2.3	1.8	9.5	10.7	11.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0	4.0	1.3	1.4	1.9	2.9	5.3	1.1	.0
TOT OBS	92	490	419	113	17	2	1133		12.1	101	226	210	108	70	95	178	145
TOT PCT	8.1	43.2	37.0	10.0	1.5	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.3	9.8	7.4	.8	*		22.4	13.5	25.1	20.0	25.3	20.6
NE	4.1	8.1	3.6	*	.0		15.8	11.1	15.1	24.4	12.3	10.0
E	3.0	3.6	.8	.1	.0		7.5	9.4	4.3	11.2	12.0	4.8
SE	3.4	5.1	1.2	.2	.0		9.8	9.9	6.8	14.7	10.6	7.7
S	3.2	7.3	5.4	1.7	.2		17.7	14.9	21.0	18.9	14.8	14.5
SW	2.4	5.7	2.6	.6	.1		11.4	13.2	13.4	5.3	11.2	15.5
W	2.4	3.4	.6	.3	.1		6.7	10.9	5.5	.8	3.3	15.5
NW	2.1	3.8	.6	.2	.1		6.8	10.8	6.7	3.1	6.2	10.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.9						1.9	.0	2.1	1.6	4.2	.6
TOT OBS	302	529	252	44	6	1133		12.1	327	318	165	323
TOT PCT	26.7	46.7	22.2	3.9	.5		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1913-1971
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.1	7.6	40.4	37.0	10.4	1.8	.6	12.3	100.0	327
06&09	1.6	4.4	41.5	39.0	11.6	1.9	.0	12.9	100.0	318
12&15	4.2	3.0	47.3	33.9	9.7	1.8	.0	11.7	100.0	165
18&21	.6	8.4	45.8	36.5	8.0	.6	.0	11.2	100.0	323
TOT	21	71	490	419	113	17	2	12.1		1133
PCT	1.9	6.3	43.2	37.0	10.0	1.5	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	12.1	3.5	5.0	2.0		3.1
NE	8.3	3.0	3.6	2.6		3.6
E	2.3	1.2	1.6	2.7		4.8
SE	3.4	2.6	3.2	2.2		4.4
S	6.2	4.3	3.4	3.6		4.0
SW	3.9	1.4	2.0	2.4		3.8
W	3.7	.5	.4	.7		2.4
NW	4.0	.5	.7	.4		2.3
VAR	.0	.0	.0	.0		.0
CALM	1.1	.7	.4	.4		3.2
TOT OBS	127	50	57	48	282	3.6
TOT PCT	45.0	17.7	20.2	17.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.3	1.0	1.2	.6	.0	.0	.0	.5	19.0	
NE	.0	.0	.0	1.1	.8	1.1	.4	.4	.0	.5	13.4	
E	.0	.3	.3	1.0	.9	1.1	.0	.0	.0	.0	4.4	
SE	.0	.1	.4	.1	1.2	1.8	.0	.0	.0	.0	7.7	
S	.0	.0	.0	1.0	1.5	1.6	.3	.0	.0	.0	13.1	
SW	.0	.0	.0	.8	2.0	.2	.4	.0	.0	.0	6.3	
W	.0	.0	.0	.4	.4	.0	.4	.0	.0	.0	4.3	
NW	.0	.0	.1	.1	.4	.1	.0	.0	.0	.0	4.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	2.1	
TOT OBS	0	1	3	15	24	19	4	1	0	3	212	282
TOT PCT	.0	.4	1.1	5.3	8.5	6.7	1.4	.4	.0	1.1	75.2	100.0

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 >50YD	= OR >0
= OR >6500	.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >5000	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >3500	2.8	3.1	3.1	3.1	3.1	3.1	3.1	3.1
= OR >2000	9.1	9.8	9.8	9.8	9.8	9.8	9.8	9.8
= OR >1000	15.0	18.5	18.5	18.5	18.5	18.5	18.5	18.5
= OR >600	18.2	23.4	23.8	23.8	23.8	23.8	23.8	23.8
= OR >300	18.9	24.1	24.8	24.8	24.8	24.8	24.8	24.8
= OR >150	19.2	24.5	25.2	25.2	25.2	25.2	25.2	25.2
= OR > 0	19.2	24.5	25.2	25.2	25.2	25.2	25.2	25.2
TOTAL	55	70	72	72	72	72	72	72

TOTAL NUMBER OF OBS: 286

PCT FREQ NH <5/8: 74.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.1	24.2	13.7	12.4	7.5	4.7	4.0	6.5	9.9	.0	322

PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1870-1971

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.3	.1	.1	.0	.1	.1	.1	.1	.0	.0	1.0	
	TOT %	.3	.1	.1	.1	.1	.1	.1	.1	.0	.0	1.2	
1<2	PCP	.1	.0	.0	.0	.2	.2	.0	.0	.0	.0	.6	
	NO PCP	1.6	.6	.1	.0	.5	.3	.5	.6	.0	.0	4.2	
	TOT %	1.7	.6	.1	.0	.7	.5	.5	.6	.0	.0	4.8	
2<5	PCP	.1	.0	.0	.1	.1	.1	.1	.0	.0	.0	.6	
	NO PCP	.3	.1	.0	.1	.2	.1	.0	.3	.0	.0	1.2	
	TOT %	.4	.1	.0	.3	.3	.2	.1	.3	.0	.0	1.7	
5<10	PCP	.7	.1	.1	.3	2.2	1.1	.3	.3	.0	.0	5.2	
	NO PCP	6.6	4.4	2.8	3.8	6.3	2.3	2.4	1.8	.0	.1	30.5	
	TOT %	7.3	4.5	3.0	4.1	8.5	3.4	2.7	2.1	.0	.1	35.7	
10+	PCP	.1	.3	.3	.5	.9	.1	.0	.0	.0	.0	2.2	
	NO PCP	13.0	10.6	4.0	5.1	9.1	5.3	2.9	3.1	.0	1.3	54.5	
	TOT %	13.1	10.9	4.3	5.5	10.0	5.4	2.9	3.1	.0	1.3	56.6	
	TOT OBS												694
	TOT PCT	22.9	16.2	7.5	10.1	19.7	9.6	6.4	6.2	.0	1.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	4-10	.0	.1	.1	.0	.1	.1	.0	.0	.0		.2	
	11-21	.1	.0	.0	.1	.1	.1	.0	.0	.0		.4	
	22+	.1	.0	.0	.0	.0	.0	.0	.1	.0		.2	
	TOT %	.2	.1	.1	.1	.1	.1	.1	.1	.0	.0	1.0	
1<2	0-3	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	4-10	.3	.1	.1	.0	.0	.2	.4	.4	.0		1.6	
	11-21	.4	.2	.0	.0	.5	.2	.0	.1	.0		1.5	
	22+	.7	.1	.0	.0	.1	.0	.0	.0	.0		.9	
	TOT %	1.5	.5	.1	.0	.7	.4	.4	.5	.0	.0	4.2	
2<5	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.1	.1	.1	.1	.2	.0	.4	.0		1.0	
	11-21	.4	.1	.1	.2	.5	.1	.0	.0	.0		1.3	
	22+	.1	.0	.0	.0	.1	.1	.1	.0	.0		.4	
	TOT %	.6	.4	.2	.3	.6	.4	.1	.4	.0	.0	2.9	
5<10	0-3	.4	.4	.3	.1	.4	.2	.2	.1	.0	.1	2.3	
	4-10	1.9	1.6	1.6	2.0	2.3	.9	1.5	1.6	.0		13.3	
	11-21	2.8	2.2	.9	.9	2.9	2.0	.5	.4	.0		12.7	
	22+	1.9	.2	.1	.4	1.8	.0	.2	.2	.0		4.8	
	TOT %	6.9	4.4	3.0	3.4	7.4	3.1	2.5	2.3	.0	.1	33.1	
10+	0-3	.7	.3	.2	.2	.4	.3	.4	.2	.0	1.2	3.9	
	4-10	4.4	6.4	3.1	3.8	3.0	2.5	2.1	2.4	.0		27.7	
	11-21	6.5	3.8	.9	1.5	5.5	2.6	.8	1.0	.0		22.6	
	22+	1.2	.2	.2	.3	1.3	.8	.5	.2	.0		4.6	
	TOT %	12.9	10.7	4.2	5.8	10.1	6.2	3.9	3.8	.0	1.2	38.9	
	TOT OBS												819
	TOT PCT	22.1	16.1	7.6	9.7	19.0	10.3	7.0	7.0	.0	1.3	100.0	

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PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1870-1971

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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
00&03	.0	.0	.0	5.8	5.8	6.8	2.9	.0	.0	.0	21.4	78.6	103
06&09	.0	.0	1.2	1.2	10.5	5.8	1.2	.0	.0	2.3	22.1	77.9	86
12&15	.0	1.6	1.6	9.5	9.5	4.8	1.6	1.6	.0	.0	30.2	69.8	63
18&21	.0	.0	1.6	3.3	6.6	6.6	.0	.0	.0	1.6	19.7	80.3	61
TOT	0	1	3	15	25	19	5	1	0	3	72	241	313
PCT	.0	.3	1.0	4.8	8.0	6.1	1.6	.3	.0	1.0	23.0	77.0	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
00&03	.0	1.4	6.0	2.8	24.8	65.1	218
06&09	.0	1.7	4.3	2.6	35.5	56.0	234
12&15	.0	.0	1.4	2.8	32.4	63.4	142
18&21	.0	.8	4.0	3.2	40.5	51.4	247
TOT	0	9	35	24	283	490	841
PCT	.0	1.1	4.2	2.9	33.7	58.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	9.7	17.2	73.1	93
06&09	.0	1.3	3.9	22.1	74.0	77
12&15	.0	3.3	13.1	18.0	68.9	61
18&21	.0	1.8	5.5	16.4	78.2	55
TOT	0	4	23	53	210	286
PCT	.0	1.4	8.0	18.5	73.4	100.0

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
80/84	.0	.0	.0	.0	.4	.2	.0	.0	3	.6
75/79	.0	.0	.0	.6	.9	1.3	.4	.4	17	3.6
70/74	.0	.0	.6	2.3	3.8	7.5	8.1	2.6	117	24.9
65/69	.0	.4	1.3	4.1	7.9	14.5	15.6	8.5	245	52.2
60/64	.0	.0	.4	1.3	5.3	4.5	2.8	2.3	78	16.6
55/59	.0	.0	.0	.0	.0	.6	.4	.9	9	1.9
TOTAL	0	2	11	39	86	134	128	69	469	100.0
PCT	.0	.4	2.3	8.3	18.3	28.6	27.3	14.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.2	.0	.2	.0	.2	.0	.0	.0	.0
1.7	.5	.4	.0	.2	.0	.0	.6	.0	.2
9.3	4.4	1.3	1.5	3.0	2.0	1.0	1.9	.0	.4
9.7	10.7	5.2	5.7	11.1	3.8	2.3	2.5	.0	1.3
1.1	.5	1.3	1.6	4.6	3.3	2.7	1.5	.0	.0
.0	.2	.0	.0	.5	.5	.4	.2	.0	.0
21.7	16.6	8.2	9.0	19.6	9.9	6.4	6.7	.0	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	81	78	75	69	62	59	57	69.0	321
06&09	83	80	75	69	63	60	55	68.8	313
12&15	77	74	72	67	61	58	57	66.9	167
18&21	76	73	71	65	59	57	56	65.4	327
TOT	83	78	74	68	61	58	55	67.6	1128

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	15.7	20.0	32.9	22.9	8.6	72	140
06&09	.0	11.8	16.9	29.4	31.6	10.3	75	136
12&15	.0	10.3	14.9	24.1	26.4	24.1	78	87
18&21	.0	5.0	19.0	25.6	29.8	20.7	78	121
TOT	0	53	87	138	134	72	76	484

PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1870-1971

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) 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	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.2	.2	2	.0	.3
9/10	.0	.0	.0	.2	.0	.0	.0	.0	1	.0	.2
7/8	.0	.0	.3	.2	.5	.3	.5	.0	11	.0	1.8
6	.0	.0	.2	.0	.6	.5	.2	.0	9	.2	1.3
5	.0	.0	.2	.2	1.1	.8	.0	.2	15	.0	2.4
4	.0	.0	.3	.3	1.3	1.3	.5	.0	23	.0	3.6
3	.0	.0	.0	.6	1.3	1.1	.0	.0	19	.0	3.0
2	.0	.0	.6	2.1	4.8	2.2	.2	.0	62	.8	9.1
1	.0	.2	.5	3.3	6.1	.5	.0	.0	66	.2	10.4
0	.0	.0	1.3	5.1	6.4	1.0	.0	.0	86	.6	13.1
-1	.0	.6	1.0	4.8	3.8	.6	.0	.0	68	.2	10.7
-2	.0	.5	3.2	5.3	2.7	.3	.0	.0	75	.2	11.8
-3	.0	.2	1.0	6.2	1.6	.0	.2	.0	57	.3	8.8
-4	.0	.2	3.2	3.2	.8	.5	.0	.0	49	.0	7.8
-5	.0	.3	2.5	2.2	.2	.0	.0	.0	33	.2	5.1
-6	.2	.8	1.3	1.6	.0	.0	.0	.0	24	.2	3.7
-7/-8	.0	.2	2.2	1.0	.0	.0	.0	.0	21	.2	3.2
-9/-10	.0	.0	.2	.2	.0	.0	.0	.0	2	.0	.3
-11/-13	.2	.2	.3	.0	.0	.0	.0	.0	4	.2	.5
-14/-16	.0	.2	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	2	20	114	228	195	57	10	2	628	19	609
PCT	.3	3.2	18.2	36.3	31.1	9.1	1.6	.3	100.0	3.0	97.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.8	.0	.0	.0	.0	1.7
1-2	.0	3.4	2.0	.0	.0	.0	5.4
3-4	.0	2.1	5.5	.8	.0	.0	8.4
5-6	.0	.0	2.9	.9	.0	.0	3.8
7	.0	.0	1.2	1.7	.0	.0	2.9
8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.9	6.3	12.1	3.3	.0	.0	22.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.4	.0	.0	.0	.0	1.9
1-2	.0	5.2	1.0	.0	.0	.0	6.2
3-4	.0	3.5	3.2	.1	.0	.0	6.9
5-6	.0	.4	2.0	.0	.0	.0	2.4
7	.0	.1	.6	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	10.7	6.7	.1	.0	.0	18.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.3	2.9	.4	.0	.0	.0	3.7
3-4	.0	.8	.9	.0	.0	.0	1.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.3	.3	.0	.0	.0	.7
8-9	.0	.0	.4	.3	.0	.0	.8
10-11	.0	.0	.0	.3	.0	.0	.3
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
TOT PCT	.3	4.8	2.1	.7	.0	.0	7.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.6	2.8	.6	.0	.0	.0	3.9
3-4	.0	2.0	1.0	.0	.0	.0	3.0
5-6	.0	.9	1.0	.1	.0	.0	2.0
7	.0	.0	1.0	.4	.0	.0	1.4
8-9	.0	.0	.0	.1	.1	.0	.2
10-11	.0	.0	.0	.1	.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
TOT PCT	.6	7.1	3.5	.8	.1	.0	12.1

PERIOD: (OVER-ALL) 1963-1971

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TABLE 18 (CONT)

AREA 0006 COFFS HARBOUR
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.0	.0	.0	.0	.9	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	2.4	1.1	.0	.0	.0	3.5	.1	2.7	.1	.0	.0	.0	2.9
3-4	.0	3.0	4.3	.4	.0	.0	7.7	.0	.9	2.7	.0	.0	.0	3.5
5-6	.0	.0	2.1	.3	.0	.0	2.4	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.7	.4	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.4	.0	.3	.0	.8	.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
TOT PCT	.4	5.9	8.6	1.2	.3	.0	16.5	.1	4.9	4.3	.0	.0	.0	9.3

	W							NW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.9	
1-2	.3	1.7	.0	.0	.0	.0	2.0	.0	2.0	.1	.0	.0	.0	2.1	
3-4	.0	1.3	.0	.0	.0	.0	1.3	.0	.1	.6	.0	.0	.0	.7	
5-6	.0	.0	.4	.0	.4	.0	.9	.0	.0	.4	.0	.0	.0	.4	
7	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.1	.0	.0	.1	
8-9	.0	.0	.3	.0	.0	.0	.3	.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	
TOT PCT	.3	3.0	.8	.9	.4	.0	5.4	.0	3.0	1.2	.1	.0	.0	4.3	96.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.1	7.0	.0	.0	.0	.0	13.1	
1-2	1.7	23.1	5.2	.0	.0	.0	30.1	
3-4	.0	13.5	17.9	1.3	.0	.0	32.8	
5-6	.0	1.3	9.2	1.3	.4	.0	12.2	
7	.0	.4	4.8	3.5	.0	.0	8.7	
8-9	.0	.0	1.7	.4	.4	.0	2.6	
10-11	.0	.0	.0	.4	.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	
								229
TOT PCT	7.9	45.4	38.9	7.0	.9	.0	100.0	

PERIOD: (OVER-ALL) 1949-1971

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	.7	7.7	12.9	6.3	4.8	1.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	4
6-7	.0	.7	11.8	11.4	8.1	2.6	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97	5
8-9	.0	.4	3.0	3.7	4.4	3.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	6
10-11	.0	.0	1.5	1.1	.4	3.0	1.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	7
12-13	.0	.0	.0	.7	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
>13	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
INDET	1.1	.7	1.1	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	3
TOTAL	5	26	82	68	50	30	6	3	1	0	0	0	0	0	0	0	0	0	0	271	5
PCT	1.8	9.6	30.3	25.1	18.5	11.1	2.2	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1869-1972

AREA 0006 COFFS HARBOUR
30.3S 153.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	2.2	3.0	.3	.0	.0	.0	.0	5.2	.5	5.3	11.1	.0	4.6	.5	73.7
NE	3.3	4.2	.9	.0	.0	.0	.0	8.2	2.8	1.4	4.9	.0	12.0	.0	70.8
E	9.8	6.3	.0	.0	.0	.0	.0	16.0	1.0	2.8	.7	.0	6.3	.0	73.2
SE	5.6	12.2	1.0	.0	.0	.0	.0	18.7	2.5	.0	.5	.0	2.5	.0	75.7
S	1.4	2.8	.0	.0	.0	.0	.0	4.2	3.6	.8	1.2	.0	3.0	.0	87.1
SW	3.0	4.5	1.5	.0	.0	.0	.0	9.0	1.9	2.2	.7	.0	.0	.0	88.4
W	10.1	4.5	.0	.0	.0	.0	.0	14.6	.0	11.2	.0	.0	3.4	.0	73.0
NW	5.9	1.5	.0	.0	.0	.0	.0	7.4	.0	13.3	11.9	.0	9.6	.0	60.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.0	10.0	.0	.0	.0	.0	.0	20.0	.0	10.0	.0	.0	20.0	.0	50.0
TOT PCT	3.9	4.8	.5	.0	.0	.0	.0	9.1	1.8	3.3	4.8	.0	5.6	.1	75.9
TOT OBS:	787														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00&03	2.4	4.3	1.0	.0	.0	.0	.0	7.2	1.4	.0	3.9	.0	9.7	.5	77.3
06&09	2.5	5.4	.4	.0	.0	.0	.0	8.3	2.5	1.7	5.8	.0	5.4	.0	76.9
12&15	6.3	2.8	.7	.0	.0	.0	.0	9.9	1.4	9.9	1.4	.0	2.1	.0	76.8
18&21	5.1	6.0	.0	.0	.0	.0	.0	11.2	1.4	4.2	6.5	.0	5.1	.0	72.6
TOT PCT	3.8	4.8	.5	.0	.0	.0	.0	9.1	1.7	3.3	4.7	.0	5.8	.1	75.8
TOT OBS:	806														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	7.7	12.8	2.9	.0	.0		24.7	13.7	23.4	25.0	22.0	21.3	28.1	30.5	24.1	26.7
NE	1.6	6.9	7.9	.9	.1	.0		17.4	11.6	16.4	15.5	21.4	20.9	27.4	18.6	14.5	10.4
E	.8	5.2	2.2	.5	*	.0		8.8	9.6	4.4	8.7	9.8	11.0	6.6	11.8	9.[illegible]	6.7
SE	.9	6.2	4.8	1.3	.4	.0		13.5	12.5	7.0	11.9	22.2	23.6	11.8	13.2	9.[illegible]	5.6
S	.9	5.4	6.6	2.0	.6	.1		15.7	14.3	23.6	18.9	15.3	12.6	14.2	11.1	1[illegible].9	16.1
SW	.3	3.8	4.3	1.4	.2	.0		10.0	13.8	14.0	9.8	4.7	5.9	4.9	8.9	12.[illegible]	17.9
W	.4	1.8	.8	.2	.0	.0		3.2	9.3	5.6	2.5	2.3	.4	2.4	1.8	4.7	5.4
NW	.4	3.1	1.6	.2	.0	.0		5.3	9.7	4.7	6.3	1.8	3.5	.3	4.1	9.1	8.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0	.9	1.4	.4	.8	4.2	.0	3.0	2.3
TOT OBS	99	505	516	117	16	1	1254		12.4	107	216	244	127	72	110	203	175
TOT PCT	7.9	40.3	41.1	9.3	1.3	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.3	12.9	7.3	1.1	.0		24.7	13.7	24.5	21.8	29.5	25.3
NE	3.6	9.8	3.7	.3	.0		17.4	11.6	15.8	21.2	22.1	12.6
E	3.0	4.9	.6	.2	.0		8.8	9.6	7.3	10.2	9.8	8.1
SE	3.1	6.8	2.8	.8	.2		13.5	12.5	10.3	22.7	12.6	7.7
S	3.1	7.0	4.2	1.1	.3		15.7	14.3	20.4	14.4	12.4	14.6
SW	1.8	4.8	2.8	.6	*		10.0	13.8	11.2	5.1	7.3	14.9
W	1.3	1.7	.2	.1	.0		3.2	9.3	3.6	1.6	2.1	5.0
NW	1.8	2.7	.7	*	.0		5.3	9.7	5.7	2.4	2.6	9.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	1.2	.5	1.6	2.6
TOT OBS	281	635	279	53	6	1254		12.4	323	371	182	378
TOT PCT	22.4	50.6	22.2	4.2	.5		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1869-1972

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	1.2	9.0	39.6	39.6	8.4	1.9	.3	12.0	100.0	323
06&09	.5	3.0	38.3	43.9	12.7	1.6	.0	13.7	100.0	371
12&15	1.6	3.3	37.9	46.7	8.8	1.6	.0	13.0	100.0	182
18&21	2.6	9.0	43.9	37.0	7.1	.3	.0	11.0	100.0	378
TOT	19	80	505	516	117	16	1	12.4		1254
PCT	1.5	6.4	40.3	41.1	9.3	1.3	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	13.8	2.0	6.5	2.3		3.1
NE	7.2	2.5	5.8	3.8		4.1
E	1.8	1.0	1.7	2.0		4.6
SE	3.1	2.5	2.6	2.9		4.5
S	7.3	4.1	4.3	4.7		4.1
SW	5.7	1.8	1.6	.6		2.9
W	1.4	.6	.7	.9		4.3
NW	1.7	.2	1.1	.0		3.0
VAR	.0	.0	.0	.0		.0
CALM	1.3	.0	.3	.3		2.6
TOT OBS	131	44	74	53	302	3.8
TOT PCT	43.4	14.6	24.5	17.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.7	1.3	.6	.7	.0	.0	.7	20.7	
NE	.0	.0	.1	1.7	1.9	1.2	1.1	.0	.0	.3	13.1	
E	.0	.0	.2	.6	.0	1.2	.8	.0	.0	.0	3.6	
SE	.3	.0	.0	1.4	1.4	.4	.4	.0	.0	.0	7.1	
S	.0	.0	.0	2.2	2.8	2.2	.0	.0	.0	.0	13.2	
SW	.0	.0	.0	.6	.4	.7	.0	.0	.0	.0	8.0	
W	.0	.0	.0	.6	.3	.3	.0	.0	.0	.0	2.3	
NW	.0	.0	.0	.0	.4	.3	.0	.0	.0	.0	2.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	1.3	
TOT OBS	1	0	1	24	26	22	9	0	0	3	216	302
TOT PCT	.3	.0	.3	7.9	8.6	7.3	3.0	.0	.0	1.0	71.5	100.0

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 >500YD	* OR >0
* OR >6500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >3500	3.5	3.9	3.9	3.9	3.9	3.9	3.9	3.9
* OR >2000	9.3	10.9	10.9	10.9	10.9	10.9	10.9	10.9
* OR >1000	16.4	19.3	19.3	19.3	19.3	19.3	19.3	19.3
* OR >600	20.9	26.4	27.0	27.0	27.0	27.0	27.0	27.0
* OR >300	20.9	26.4	27.3	27.3	27.3	27.3	27.3	27.3
* OR >150	20.9	26.4	27.3	27.3	27.3	27.3	27.3	27.3
* OR > 0	20.9	26.7	27.7	27.7	27.7	27.7	27.7	27.7
TOTAL	65	83	86	86	86	86	86	86

TOTAL NUMBER OF OBS: 311 PCT FREQ NH <5/8: 72.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
20.0	20.3	15.6	9.7	6.2	5.3	5.3	6.5	10.9	.3	340

NOVEMBER

PERIOD: (PRIMARY) 1910-1972
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.1	
1/2<1	PCP	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	2.5	.8	.1	.1	.2	.1	.0	.3	.0	.0	3.9	
	TOT %	2.7	1.1	.1	.1	.2	.1	.0	.3	.0	.0	4.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	1.5	1.5	.3	.1	.1	.0	.0	.5	.0	.0	3.9	
	TOT %	1.5	1.5	.3	.1	.1	.0	.0	.5	.0	.0	3.9	
2<5	PCP	.1	.1	.1	.0	.0	*	.1	.0	.0	.0	.4	
	NO PCP	.4	.0	.0	.1	.0	.0	.1	.0	.0	.0	.6	
	TOT %	.4	.1	.1	.1	.0	*	.2	.0	.0	.0	1.0	
5<10	PCP	1.0	.6	1.3	2.2	.4	.7	.2	.3	.0	.1	6.9	
	NO PCP	8.6	4.8	4.5	4.5	4.4	2.1	.8	1.1	.0	.4	31.1	
	TOT %	9.6	5.4	5.7	6.7	4.8	2.8	1.0	1.5	.0	.5	38.0	
10+	PCP	.2	.5	.1	.1	.2	*	.1	.0	.0	.1	1.4	
	NO PCP	13.0	9.8	2.9	5.4	10.4	5.6	1.4	2.0	.0	.6	51.1	
	TOT %	13.2	10.2	3.0	5.5	10.6	5.6	1.6	2.0	.0	.8	52.5	
	TOT OBS												787
	TOT PCT	27.4	18.3	9.1	12.5	15.8	8.5	2.8	4.3	.0	1.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.1	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.1	
1/2<1	0-3	.1	.1	.0	.1	.0	.0	.0	.1	.0	.0	.3	
	4-10	.3	.0	.1	.1	.2	.1	.0	.1	.0		.7	
	11-21	1.1	.4	.0	.0	.0	.0	.0	.1	.0		1.6	
	22+	.9	.4	.0	.0	.0	.0	.0	.0	.0		1.3	
	TOT %	2.3	.9	.1	.2	.2	.1	.0	.2	.0	.0	3.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.5	.5	.3	.1	.1	.0	.0	.1	.0		1.6	
	11-21	.7	.8	.0	.0	.0	.0	.0	.3	.0		1.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.3	1.3	.3	.1	.1	.0	.0	.4	.0	.0	3.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.4	.1	.1	.1	.0	.0	.1	.1	.0		.9	
	11-21	.5	.2	.1	.1	.1	.1	.1	.1	.0		1.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.9	.3	.1	.2	.1	.1	.2	.2	.0	.1	2.3	
5<10	0-3	.8	.8	.5	.5	.6	.2	.1	.1	.0	.4	3.9	
	4-10	2.1	2.0	2.4	2.2	1.6	1.6	.4	1.0	.0		13.4	
	11-21	4.6	1.7	1.8	1.9	1.7	.7	.3	.4	.0		13.2	
	22+	1.2	.4	.5	1.6	.7	.5	.0	.1	.0		5.0	
	TOT %	8.8	5.0	5.2	6.2	4.5	3.0	.9	1.5	.0	.4	35.5	
10+	0-3	.3	.7	.2	.1	.2	.1	.4	.1	.0	.7	2.7	
	4-10	3.8	4.8	2.7	3.0	3.7	2.0	.7	1.4	.0		22.2	
	11-21	6.8	4.7	.6	2.3	5.3	2.8	.4	.5	.0		23.5	
	22+	1.5	.5	.1	.4	2.2	1.4	.1	.1	.0		6.3	
	TOT %	12.4	10.7	3.7	5.8	11.3	6.3	1.6	2.2	.0	.7	54.7	
	TOT OBS												919
	TOT PCT	25.7	18.2	9.3	12.5	16.2	9.5	2.7	4.5	.0	1.2	100.0	

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(OVER-ALL) 1869-1972

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
00&03	.0	.0	.0	7.0	6.1	6.1	.9	.0	.0	.9	21.1	78.9	114
06&09	1.1	.0	1.1	6.5	9.7	5.4	4.3	.0	.0	.0	28.0	72.0	93
12&15	.0	.0	.0	10.1	7.2	5.8	4.3	.0	.0	2.9	30.4	69.6	69
18&21	.0	.0	.0	5.6	9.3	11.1	1.9	.0	.0	.0	27.8	72.2	54
TOT	1	0	1	24	26	22	9	0	0	3	86	244	330
PCT	.3	.0	.3	7.3	7.9	6.7	2.7	.0	.0	.9	26.1	73.9	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
00&03	.4	2.9	4.6	.4	25.9	65.7	239
06&09	.0	5.1	3.6	1.4	37.9	52.0	277
12&15	.0	1.9	.6	3.9	32.5	61.0	154
18&21	.0	4.5	4.1	3.7	42.5	45.1	268
TOT	1	36	33	21	331	516	938
PCT	.1	3.8	3.5	2.2	35.3	55.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.0	1.0	8.6	15.2	76.2	105
06&09	1.1	2.2	8.8	19.8	71.4	91
12&15	.0	.0	11.3	22.6	66.1	62
18&21	.0	.0	7.5	22.6	69.8	53
TOT	2	3	28	60	223	311
PCT	.6	1.0	9.0	19.3	71.7	100.0

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
80/84	.0	.0	.4	.4	.2	.2	.0	.0	6	1.3
75/79	.0	.0	.7	.2	2.6	4.6	2.8	.4	52	11.3
70/74	.0	.4	.7	2.4	7.6	10.8	18.0	7.6	219	47.5
65/69	.0	.2	.9	5.4	5.6	8.5	9.3	4.8	160	34.7
60/64	.0	.0	.0	1.1	1.3	1.1	.9	.4	22	4.8
55/59	.0	.0	.0	.0	.4	.0	.0	.0	2	.4
TOTAL	0	3	12	44	82	116	143	61	461	100.0
PCT	.0	.7	2.6	9.5	17.8	25.2	31.0	13.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.3	.3	.0	.2	.0	.1	.2	.0	.0	.2
	5.5	2.8	.5	.5	.8	.8	.2	.3	.0	.0
	15.9	12.0	3.4	3.9	5.5	2.4	2.3	1.7	.0	.4
	5.9	4.2	3.5	6.3	7.5	3.4	1.1	1.6	.0	1.3
	.7	.0	.6	.1	2.3	.8	.2	.2	.0	.0
	.0	.0	.0	.0	.2	.3	.0	.0	.0	.0
	28.3	19.3	8.0	10.9	16.2	7.6	3.9	3.9	.0	2.0

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	82	80	78	71	65	62	62	71.2	318
06&09	83	81	77	71	65	62	54	70.7	359
12&15	75	74	74	69	64	61	59	68.7	187
18&21	83	77	75	69	62	59	54	68.5	379
TOT	83	80	76	70	64	60	54	69.8	1243

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	16.5	23.0	25.2	24.5	10.8	73	139
06&09	.0	15.8	16.5	28.6	29.3	9.8	74	133
12&15	.0	10.5	17.4	16.3	44.2	11.6	78	86
18&21	.0	6.9	14.7	26.7	31.9	19.8	79	116
TOT	0	61	86	118	148	61	76	474

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	WO FOG
14/16	.0	.0	.0	.0	.0	.1	.1	.0	2	.0	.3
11/13	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.0	.0	.1	.1	.0	2	.0	.3
7/8	.0	.0	.0	.0	.3	.6	.3	.0	8	.0	1.1
6	.0	.0	.0	.0	.0	.3	.7	.0	7	.6	.4
5	.0	.0	.1	.0	1.0	.9	.6	.0	18	.0	2.6
4	.0	.0	.0	.0	1.0	3.3	.4	.1	34	.6	4.3
3	.0	.0	.0	.1	1.6	2.6	.4	.0	33	.6	4.1
2	.0	.0	.1	1.3	5.4	4.6	.4	.0	83	.9	11.0
1	.0	.0	.1	1.3	5.3	2.6	.7	.0	70	1.0	9.0
0	.0	.0	.7	4.1	5.6	3.0	.3	.0	96	.6	13.1
-1	.1	.0	.4	3.7	4.1	2.3	.3	.0	77	.4	10.5
-2	.1	.0	1.0	3.4	5.1	.9	.0	.0	74	.1	10.4
-3	.0	.0	.3	5.0	3.3	1.0	.0	.0	67	.1	9.4
-4	.0	.1	.6	3.3	2.4	.0	.0	.0	45	.1	6.3
-5	.0	.0	.0	2.7	1.9	.1	.0	.0	33	.0	4.7
-6	.0	.0	.9	1.6	.7	.0	.0	.0	22	.0	3.1
-7/-8	.0	.4	.9	1.6	.7	.0	.0	.0	25	.0	3.6
-9/-10	.0	.1	.0	.3	.0	.0	.0	.0	3	.0	.4
-11/-13	.0	.0	.3	.0	.0	.0	.0	.0	2	.0	.3
TOTAL	2		38		269		31			35	667
		5		199		156		2	702		
PCT	.3	.7	5.4	28.3	38.3	22.2	4.4	.3	100.0	5.0	95.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	.0	.0	.0	.0	1.2
1-2	.0	2.9	3.5	.0	.0	.0	6.5
3-4	.0	1.8	7.2	.8	.0	.0	9.7
5-6	.0	.0	2.5	1.1	.0	.0	3.6
7	.0	.0	1.4	.0	.0	.0	1.4
8-9	.0	.0	.3	.7	.0	.0	1.0
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.4	.0	.0	.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
TOT PCT	.4	5.5	15.3	2.8	.0	.0	24.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.6	.0	.0	.0	.0	2.0
1-2	.4	3.0	2.4	.0	.0	.0	5.8
3-4	.4	2.9	3.5	.0	.0	.0	6.9
5-6	.0	.0	2.8	.5	.0	.0	3.3
7	.0	.0	1.3	.0	.0	.0	1.3
8-9	.0	.0	.1	.5	.0	.0	.6
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
TOT PCT	1.2	7.5	10.2	1.1	.0	.0	20.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.0	.0	.0	.0	.8
1-2	.0	1.7	.3	.0	.0	.0	2.0
3-4	.0	1.1	1.4	.0	.0	.0	2.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.3	.0	.0	.0	.3
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
TOT PCT	.4	3.1	2.0	.4	.0	.0	5.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.0	2.1	.5	.0	.0	.0	2.5
3-4	.0	1.3	2.2	.0	.0	.0	3.4
5-6	.0	.2	3.2	.4	.0	.0	3.8
7	.0	.0	.4	.8	.0	.0	1.2
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	4.3	6.3	1.3	.0	.0	11.9

PERIOD: (OVER-ALL) 1963-1972

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TABLE 18 (CONT)

AREA 0006 COFFS HARBOUR
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.0	.0	.0	.0	.7
1-2	.0	1.6	1.8	.0	.0	.0	3.3
3-4	.0	1.0	3.2	.0	.0	.0	4.2
5-6	.0	1.0	4.0	1.1	.8	.0	6.9
7	.0	.0	1.2	1.5	.8	.0	3.4
8-9	.0	.0	.7	.3	.4	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.4	.6	.0	1.0
20-22	.0	.0	.0	.0	.4	.0	.4
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
TOT PCT	.3	3.9	10.9	3.5	2.9	.0	21.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5
1-2	.0	.8	.6	.0	.0	.0	1.4
3-4	.0	1.4	2.3	.4	.0	.0	4.0
5-6	.0	.0	.2	.5	.0	.0	.7
7	.0	.0	.8	.5	.4	.0	1.7
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.4	.2	.0	.6
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
TOT PCT	.1	2.5	3.9	2.3	.6	.0	9.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.6	.4	.0	.0	.0	2.0
3-4	.0	.4	.3	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	2.0	.7	.0	.0	.0	2.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.4	.0	.0	.0	.0	.4	
1-2	.0	1.3	.4	.0	.0	.0	1.7	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.5	.0	.0	.0	.5	
7	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	.0	1.7	1.0	.0	.0	.0	2.6	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.0	4.6	.0	.0	.0	.0	9.7	
1-2	.4	14.7	9.7	.0	.0	.0	24.7	
3-4	.4	9.7	19.7	1.2	.0	.0	30.9	
5-6	.0	1.2	13.1	3.5	.8	.0	18.5	
7	.0	.0	5.0	2.7	1.2	.0	8.9	
8-9	.0	.0	1.2	1.9	.4	.0	3.5	
10-11	.0	.0	.4	.4	.0	.0	.8	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.4	.4	.0	.0	.8	
17-19	.0	.0	.0	.8	.8	.0	1.5	
20-22	.0	.0	.0	.0	.4	.0	.4	
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	
TOT PCT	5.8	30.1	49.4	11.2	3.5	.0	100.0	259

PERIOD: (OVER-ALL) 1949-1972

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	.7	8.4	8.0	9.4	4.0	1.0	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97	4
6-7	.0	.7	7.0	11.4	6.7	6.4	1.3	2.0	1.3	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	113	7
8-9	.0	.7	3.3	2.7	5.7	2.0	1.0	.7	1.0	1.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	55	7
10-11	.0	.0	.7	.7	.7	1.0	.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	7
12-13	.0	.0	.3	.0	.3	.3	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	5	11
>13	.0	.0	.0	.0	.3	.0	.7	.7	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	7	12
INDET	.7	.3	.7	1.0	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	10	6
TOTAL	4	30	60	75	53	32	12	14	9	5	2	1	2	0	0	0	0	0	0	299	6
PCT	1.3	10.0	20.1	25.1	17.7	10.7	4.0	4.7	3.0	1.7	.7	.3	.7	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1912-1969
(OVER-ALL) 1872-1969

AREA 0006 COFFS HARBOUR
30.3S 153.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.0	3.3	1.6	.0	.0	.0	.0	7.9	.5	3.3	3.0	.0	6.1	.0	79.2
NE	1.5	1.9	.8	.0	.0	.0	.0	4.1	.8	.4	1.9	.0	3.6	.0	89.3
E	2.7	5.4	.0	.0	.0	.0	.0	8.1	.0	1.0	6.1	.0	1.3	.0	83.5
SE	7.5	6.4	.0	.0	.0	.0	.0	13.9	2.1	.8	5.3	.0	1.1	.0	77.3
S	7.3	8.6	1.3	.0	.0	.0	.7	17.9	.7	6.5	2.3	.0	5.4	.0	72.4
SW	3.3	15.8	2.4	.0	.0	.0	.0	21.5	.0	2.9	6.7	.0	7.2	.0	62.7
W	17.1	.0	4.3	.0	.0	.0	.0	21.4	.0	17.1	11.4	.0	.0	.0	61.4
NW	1.7	3.5	.0	.0	.0	.0	.0	5.2	.0	5.2	8.7	.0	3.5	.0	77.4
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	.0	.0	100.0
TOT PCT	4.4	5.5	1.1	.0	.0	.0	.1	11.2	.7	3.2	3.9	.0	4.2	.0	78.4
TOT OBS:	744														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.3	3.3	1.4	.0	.0	.0	.5	8.4	1.4	1.4	4.2	.0	6.1	.0	79.4
06&09	6.2	7.0	1.3	.0	.0	.0	.0	14.5	.9	2.2	4.8	.0	5.7	.0	73.1
12&15	7.0	5.3	.0	.0	.0	.0	.0	12.3	.0	6.1	1.8	.0	1.8	.0	80.7
18&21	5.0	5.9	1.4	.0	.0	.0	.0	12.2	.5	4.5	3.2	.0	2.7	.0	78.8
TOT PCT	5.1	5.4	1.2	.0	.0	.0	.1	11.8	.8	3.2	3.7	.0	4.4	.0	77.6
TOT OBS:	777														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	8.9	11.7	2.5	*	.0		24.3	13.0	25.9	20.6	19.0	28.1	25.0	30.2	23.4	29.2
NE	1.1	9.5	8.2	.9	*	.0		19.7	11.1	20.8	18.0	22.2	30.2	17.2	25.0	16.1	12.2
E	1.2	7.3	2.6	.2	.0	.0		11.3	8.7	9.3	10.3	15.7	9.9	13.2	11.0	12.8	7.2
SE	.6	6.1	4.4	1.1	.0	.0		12.2	11.7	4.2	15.2	17.9	11.0	13.2	9.0	11.3	9.7
S	.8	6.3	8.6	2.3	.3	.0		18.2	13.7	24.5	25.0	16.2	14.7	22.1	14.8	14.1	16.7
SW	.5	2.7	2.2	.4	.2	.0		5.9	12.0	6.5	4.0	3.2	2.5	2.5	5.7	8.9	11.4
W	.6	1.5	.2	.0	.1	.2		2.6	10.7	1.6	1.9	1.5	1.7	3.9	1.9	5.0	3.6
NW	.4	1.9	1.1	.3	.0	.3		3.9	13.2	4.2	2.3	2.4	2.1	2.9	1.4	5.3	8.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0	2.8	2.8	1.8	.0	.0	1.0	3.2	1.1
TOT OBS	98	523	461	90	8	5	1185		11.7	107	214	217	121	51	105	190	180
TOT PCT	8.3	44.1	38.9	7.6	.7	.4		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.0	12.7	7.0	.7	.0		24.3	13.0	22.4	22.3	28.5	26.2
NE	4.5	11.4	3.6	.2	.0		19.7	11.1	18.9	25.1	22.4	14.2
E	3.9	6.5	.8	*	.0		11.3	8.7	10.0	13.6	11.7	10.1
SE	2.8	6.1	3.0	.2	.0		12.2	11.7	11.5	15.4	10.4	10.5
S	3.5	7.8	6.4	.4	.1		18.2	13.7	24.8	15.7	17.1	15.3
SW	1.7	2.7	1.2	.3	.0		5.9	12.0	4.8	3.0	4.6	10.1
W	1.4	.9	*	.0	.3		2.6	10.7	1.8	1.6	2.6	4.3
NW	1.3	1.6	.7	*	.3		3.9	13.2	3.0	2.3	1.9	7.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.9						1.9	.0	2.8	1.2	.6	2.2
TOT OBS	297	590	268	23	7	1185		11.7	321	338	156	370
TOT PCT	25.1	49.8	22.6	1.9	.6		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1912-1969
(OVER-ALL) 1872-1969

AREA 0006 COFFS HARBOUR
30.3S 153.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.8	8.4	43.3	38.0	6.9	.3	.3	11.1	100.0	321
06&09	1.2	3.3	41.7	43.2	8.9	1.5	.3	12.9	100.0	338
12&15	.6	3.8	41.0	43.6	8.3	1.3	1.3	13.0	100.0	156
18&21	2.2	8.6	48.4	33.8	6.8	.0	.3	10.7	100.0	370
TOT	22	76	523	461	90	8	5	11.7		1185
PCT	1.9	6.4	44.1	38.9	7.6	.7	.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.9	4.3	6.4	4.3		3.9
NE	8.5	1.6	6.0	2.8		3.7
E	3.9	1.6	3.8	2.2		4.4
SE	3.6	3.0	4.0	2.5		4.6
S	4.7	2.1	7.8	4.6		5.1
SW	1.6	.7	1.7	.9		4.4
W	.7	.7	.6	.6		4.6
NW	1.2	.5	1.4	.5		4.1
VAR	.0	.0	.0	.0		.0
CALM	1.1	.0	.4	.7		4.0
TOT OBS	94	40	88	52	274	4.3
TOT PCT	34.3	14.6	32.1	19.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.2	.0	.7	.4	2.1	1.4	.4	.0	.0	.0	18.7	
.2	.0	.5	.7	.8	1.6	.4	.0	.0	.0	14.7	
.0	.0	.6	.7	1.8	.5	.0	.0	.0	.0	7.8	
.0	.0	.0	1.6	1.4	1.3	.0	.0	.0	.0	8.9	
.0	.0	.9	2.6	4.6	1.6	.4	.0	.0	.3	8.8	
.0	.4	.5	1.0	.2	.1	.0	.0	.0	.1	2.7	
.0	.0	.0	.6	.4	.0	.0	.0	.0	.0	1.7	
.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	2.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	1.1	
1	1	9	21	37	18	3	0	0	1	183	274
.4	.4	3.3	7.7	13.5	6.6	1.1	.0	.0	.4	66.8	100.0

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 >500YD	= OR >0
= OR >6500	.0	.3	.3	.3	.3	.3	.3	.3
= OR >5000	.0	.3	.3	.3	.3	.3	.3	.3
= OR >3500	1.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7
= OR >2000	6.6	8.4	8.4	8.4	8.4	8.4	8.4	8.4
= OR >1000	15.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
= OR >600	21.0	29.4	29.4	29.4	29.4	29.4	29.4	29.4
= OR >300	22.4	32.2	32.5	32.5	32.5	32.5	32.5	32.5
= OR >150	22.4	32.5	32.9	32.9	32.9	32.9	32.9	32.9
= OR > 0	22.4	32.5	32.9	33.2	33.2	33.2	33.2	33.2
TOTAL	64	93	94	95	95	95	95	95

TOTAL NUMBER OF OBS: 286

PCT FREQ NH <5/8: 66.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
11.5	21.8	16.8	7.8	8.1	6.5	8.1	6.9	12.1	.3	321

PERIOD: (PRIMARY) 1912-1969
(OVER-ALL) 1872-1969

AREA 0006 COFFS HARBOUR
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.4	
1/2<1	PCP	.1	.0	.1	.2	.2	.0	.0	.1	.0	.0	.8	
	NO PCP	.4	.1	.4	.5	.1	.2	.1	.2	.0	.0	2.0	
	TOT %	.5	.1	.5	.7	.3	.2	.1	.3	.0	.0	2.8	
1<2	PCP	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.4	
	NO PCP	1.1	.4	.1	.2	.6	.5	.0	.0	.0	.0	2.8	
	TOT %	1.2	.5	.1	.2	.6	.5	.1	.0	.0	.0	3.2	
2<5	PCP	.0	.1	.0	.0	.2	*	.0	.0	.0	.0	.4	
	NO PCP	.4	.2	.0	.0	.1	.1	.1	.1	.0	.0	1.1	
	TOT %	.4	.3	.0	.0	.4	.2	.1	.1	.0	.0	1.5	
5<10	PCP	1.0	.3	.7	1.4	2.9	1.3	.4	.1	.0	.0	8.1	
	NO PCP	9.4	6.7	3.5	3.3	7.6	2.4	.5	1.7	.0	.4	35.3	
	TOT %	10.4	7.0	4.1	4.7	10.5	3.7	.9	1.7	.0	.4	43.4	
10+	PCP	.7	.1	.0	.1	.3	.1	.0	.0	.0	.0	1.3	
	NO PCP	11.5	9.8	5.2	6.8	8.4	2.2	1.0	1.6	.0	.7	47.3	
	TOT %	12.2	9.9	5.2	6.9	8.7	2.3	1.0	1.6	.0	.7	48.7	
	TOT OBS												744
	TOT PCT	24.7	17.8	10.0	12.6	20.6	7.0	2.4	3.9	.0	1.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	TOT %	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	
	4-10	.0	.0	.4	.3	.0	.1	.0	.1	.0		1.0	
	11-21	.2	.1	.0	.2	.2	.0	.0	.0	.0		.6	
	22+	.3	.0	.0	.1	.0	.0	.1	.2	.0		.7	
	TOT %	.4	.1	.4	.6	.2	.2	.1	.3	.0	.0	2.3	
1<2	0-3	.0	.0	.1	.1	.1	.1	.1	.1	.0	.0	.3	
	4-10	.1	.2	.0	.2	.6	.1	.1	.0	.0		1.2	
	11-21	.7	.3	.1	.2	.2	.2	.0	.0	.0		1.7	
	22+	.3	.2	.0	.0	.1	.0	.0	.0	.0		.6	
	TOT %	1.1	.6	.1	.4	.9	.4	.2	.1	.0	.0	3.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1	
	11-21	.5	.3	.0	.0	.2	.0	.0	.0	.0		1.0	
	22+	.1	.2	.0	.0	.2	*	.1	.1	.0		.7	
	TOT %	.6	.4	.0	.0	.4	.1	.1	.1	.0	.0	1.8	
5<10	0-3	.7	.2	.3	.2	.4	.0	.3	.2	.0	.3	2.7	
	4-10	3.7	3.0	2.1	1.3	3.0	1.1	.5	.7	.0		15.4	
	11-21	4.4	2.9	1.0	1.9	4.1	1.6	.0	.5	.0		16.4	
	22+	.7	.1	.1	.6	1.4	.4	.1	.2	.0		3.5	
	TOT %	9.4	6.2	3.5	4.0	8.9	3.1	.9	1.6	.0	.3	37.9	
10+	0-3	.3	.5	.6	.2	.2	.2	.2	.1	.0	.7	3.0	
	4-10	5.5	6.2	3.6	3.9	2.7	1.3	.8	1.0	.0		24.8	
	11-21	6.9	5.3	1.3	2.9	4.8	.6	.3	.6	.0		22.7	
	22+	1.0	.2	.1	.5	1.1	.4	.0	.1	.0		3.3	
	TOT %	13.8	12.1	5.6	7.4	8.8	2.5	1.3	1.8	.0	.7	53.9	
	TOT OBS												898
	TOT PCT	25.2	19.5	9.6	12.5	19.5	6.4	2.5	3.9	.0	1.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1872-1969

AREA 0006 COFFS HARBOUR
30.3S 153.3E

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
00&03	.0	.0	2.7	7.1	13.4	6.3	1.8	.0	.0	.9	32.1	67.9	112
06&09	.0	.0	4.6	10.3	9.2	5.7	1.1	.0	.0	.0	31.0	69.0	87
12&15	2.0	.0	4.0	8.0	10.0	4.0	2.0	.0	.0	.0	30.0	70.0	50
18&21	.0	1.7	.0	1.7	17.2	8.6	.0	.0	.0	.0	29.3	70.7	58
TOT	1	1	9	22	38	19	4	0	0	1	95	212	307
PCT	.3	.3	2.9	7.2	12.4	6.2	1.3	.0	.0	.3	30.9	69.1	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
00&03	.4	2.0	2.8	.8	28.0	65.9	246
06&09	.4	3.4	5.7	2.3	43.8	44.5	265
12&15	.0	1.5	3.0	2.3	38.3	54.9	133
18&21	.3	1.7	3.5	2.1	41.8	50.5	287
TOT	3	21	36	17	356	498	931
PCT	.3	2.3	3.9	1.8	38.2	53.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	2.8	12.1	23.4	64.5	107
06&09	.0	6.3	18.8	17.5	63.8	80
12&15	2.1	6.4	17.0	17.0	66.0	47
18&21	.0	1.9	7.7	28.8	63.5	52
TOT	1	12	40	62	184	286
PCT	.3	4.2	14.0	21.7	64.3	100.0

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
85/89	.0	.0	.2	.0	.0	.0	.0	.0	1	.2
80/84	.0	.0	.0	.7	.4	1.3	.4	.0	11	2.3
75/79	.0	.0	.0	1.7	3.6	9.5	8.6	3.6	128	26.9
70/74	.0	.0	.0	1.9	9.3	13.1	17.5	10.5	248	52.2
65/69	.0	.0	.0	.8	3.4	2.5	4.4	4.2	73	15.4
60/64	.0	.0	.0	.2	.6	.0	.6	1.5	14	2.9
TOTAL	0	0	1	23	82	125	150	94	475	100.0
PCT	.0	.0	.2	4.8	17.3	26.3	31.6	19.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
.9	.5	.2	.0	.2	.0	.2	.0	.0	.2
11.1	6.3	2.1	1.5	3.1	.9	.4	1.3	.0	.2
12.1	9.1	7.9	6.9	10.3	2.8	.8	1.5	.0	.8
1.3	.6	1.3	2.6	6.2	2.2	.6	.6	.0	.0
.0	.0	.0	.4	.5	1.2	.0	.8	.0	.0
25.4	16.8	11.5	11.5	20.3	7.1	2.0	4.2	.0	1.3

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	84	82	80	74	68	64	60	73.9	322
06&09	88	83	79	73	68	63	54	73.3	341
12&15	78	77	77	72	67	64	64	71.9	159
18&21	85	78	76	72	66	63	62	71.3	376
TOT	88	81	78	73	67	64	54	72.7	1198

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	7.6	18.8	34.0	28.5	11.1	77	144
06&09	.0	6.2	18.5	24.7	30.1	20.5	79	146
12&15	.0	4.2	18.1	22.2	27.8	27.8	80	72
18&21	.0	1.5	12.7	20.1	38.1	27.6	82	134
TOT	0	25	84	128	156	103	79	496

DECEMBER

AREA 0006 COFFS HARBOUR
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PERIOD: (PRIMARY) 1912-1969
(OVER-ALL) 1872-1969

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	85 88	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.3	2	.0	.3
9/10	.0	.0	.0	.0	.0	.0	.1	.0	.1	2	.0	.3
7/8	.0	.0	.0	.0	.0	.9	.4	.9	.0	15	.0	2.2
6	.0	.0	.0	.0	.1	.1	.3	.1	.0	5	.0	.7
5	.0	.0	.0	.0	.0	1.2	1.3	.1	.0	18	.1	2.5
4	.0	.0	.0	.0	.6	1.9	2.1	.3	.0	33	.3	4.5
3	.0	.0	.0	.1	.6	2.6	1.6	.0	.0	34	.3	4.7
2	.0	.0	.0	.6	2.6	4.5	1.6	.1	.0	65	.6	8.9
1	.0	.0	.0	.0	2.5	5.1	1.2	.0	.0	60	.1	8.7
0	.0	.0	.0	.6	4.8	7.0	1.9	.1	.0	99	.9	13.7
-1	.0	.0	.0	1.3	4.1	6.3	.6	.0	.0	84	.6	11.7
-2	.0	.0	.1	2.2	6.3	5.3	.7	.0	.0	100	.1	14.5
-3	.0	.0	.1	1.2	3.7	2.5	.3	.0	.0	53	.3	7.5
-4	.0	.0	.0	1.5	3.1	1.0	.1	.0	.0	39	.3	5.4
-5	.0	.0	.1	1.2	1.8	.4	.0	.0	.0	24	.0	3.5
-6	.1	.0	.0	.9	1.5	.3	.0	.0	.0	19	.0	2.7
-7/-8	.0	.0	1.3	.9	.7	.1	.0	.0	.0	21	.3	2.8
-9/-10	.0	.1	.1	.4	.0	.0	.0	.0	.0	5	.1	.6
-11/-13	.0	.0	.1	.3	.0	.0	.0	.0	.0	3	.0	.4
TOTAL	1		14		221		84		3		28	654
		1		76		270		12		682		
PCT	.1	.1	2.1	11.1	32.4	39.6	12.3	1.8	.4	100.0	4.1	95.9

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	.8	.0	.0	.0	.0	1.8
1-2	.0	3.8	.4	.0	.0	.0	4.2
3-4	.0	2.9	4.9	.0	.0	.0	7.8
5-6	.0	.5	4.8	2.6	.0	.0	7.9
7	.0	.0	3.3	.0	.0	.0	3.3
8-9	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.5	.0	.0	.5
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
TOT PCT	1.0	7.9	13.8	3.6	.0	.0	26.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.8	.0	.0	.0	.0	1.3
1-2	.0	4.4	.3	.0	.0	.0	4.7
3-4	.1	.7	4.6	.0	.0	.0	5.3
5-6	.0	.0	3.0	.0	.0	.0	3.0
7	.0	.0	1.3	.0	.0	.0	1.3
8-9	.0	.0	.5	.5	.0	.0	1.0
10-11	.0	.0	.1	.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
TOT PCT	.7	5.9	9.8	.5	.0	.0	16.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	5.9	1.4	.0	.0	.0	7.3
3-4	.4	1.4	.9	.0	.0	.0	2.7
5-6	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	8.3	3.4	.0	.0	.0	12.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	1.6	.5	.0	.0	.0	2.1
3-4	.0	2.7	5.7	.0	.0	.0	8.5
5-6	.0	.1	1.0	.7	.0	.0	1.8
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.5	.0	.0	.5
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	4.9	7.4	1.2	.0	.0	13.5

PERIOD: (OVER-ALL) 1963-1969

DECEMBER

AREA 0006 COFFS HARBOUR
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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.3	1.4	.0	.0	.0	3.8	.0	.8	.7	.0	.0	.0	1.4
3-4	.0	1.6	6.1	.0	.0	.0	7.7	.5	.5	.1	.0	.0	.0	1.2
5-6	.0	.4	2.6	1.3	.0	.0	4.3	.0	.0	.0	.1	.5	.0	.7
7	.0	.0	1.8	.0	.0	.0	1.8	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.5	.5	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.0	.0	.4	.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
TOT PCT	.0	4.3	12.5	2.7	.5	.0	20.1	.5	1.3	.9	.3	.5	.0	3.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.5	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0	
3-4	.0	.0	.5	.0	.0	.0	.5	.0	.1	.0	.0	.0	.0	.1	
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.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	.5	.5	
23-25	.0	.0	.0	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	1.0	1.0	
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	
TOT PCT	.5	.0	.9	.0	.5	1.0	3.0	.0	1.2	.3	.0	.0	1.6	3.0	98.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.0	3.0	.0	.0	.0	.0	8.0	
1-2	1.0	20.1	4.5	.0	.0	.0	25.6	
3-4	1.0	9.5	22.1	.0	.0	.0	32.7	
5-6	.0	1.0	12.6	4.5	.5	.0	18.6	
7	.0	.0	6.5	.0	.0	.0	6.5	
8-9	.0	.0	1.0	1.5	.0	.0	2.5	
10-11	.0	.0	.5	.0	.5	.0	1.0	
12	.0	.0	.0	1.0	.0	.0	1.0	
13-16	.0	.0	.0	1.0	.0	.0	1.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.5	.5	
23-25	.0	.0	.0	.0	.0	1.0	1.0	
26-32	.0	.0	.0	.0	.5	1.0	1.5	
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	
								199
TOT PCT	7.0	33.7	47.2	8.0	1.5	2.5	100.0	

PERIOD: (OVER-ALL) 1949-1969

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	9.3	9.6	8.9	4.4	1.1	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	4
6-7	.0	.7	9.6	12.2	7.8	2.2	1.5	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	95	6
8-9	.0	.4	1.9	2.6	3.7	1.9	1.1	.0	.7	.0	1.1	.7	.4	.0	.0	.0	.0	.0	.0	39	9
10-11	.0	.4	.0	1.1	2.2	.7	.4	.7	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	17	8
12-13	.0	.0	.4	.4	.0	.0	.7	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	9
>13	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	3	21
INDET	.0	.7	.7	1.9	.7	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	6
TOTAL	4	31	60	73	52	16	11	6	7	1	4	2	3	0	0	0	0	0	0	270	6
PCT	1.5	11.5	22.2	27.0	19.3	5.9	4.1	2.2	2.6	.4	1.5	.7	1.1	.0	.0	.0	.0	.0	.0	100.0	

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PERIOD: (PRIMARY) 1908-1973
(OVER-ALL) 1855-1973

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.5	2.4	.6	.0	.0	.0	.0	6.5	.7	3.9	2.5	.0	3.2	*		83.9
NE	6.1	3.5	1.8	.0	.0	.0	.0	11.3	1.4	2.0	2.5	.0	3.2	.1		80.0
E	7.0	7.5	1.4	.0	.0	.0	.0	16.0	1.6	2.4	2.6	.0	1.8	.0		76.5
SE	5.4	9.2	.7	.0	.0	.0	.0	15.2	2.1	1.6	1.2	.0	1.1	.0		79.5
S	4.7	8.1	1.4	.0	.0	.0	.1	14.3	1.9	2.6	1.3	.0	2.3	.0		78.5
SW	4.5	6.4	1.7	.0	.0	.0	.0	12.6	1.0	2.5	1.3	.0	2.1	.0		80.9
W	4.3	3.0	1.3	.0	.0	.0	.0	8.5	.7	5.6	2.4	.0	3.4	.0		80.9
NW	2.6	1.4	.6	.0	.0	.0	.0	4.5	.7	3.9	4.5	.3	3.1	.0		83.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.8	.8	.0	.0	.0	.0	.0	1.7	.0	4.2	1.0	.0	4.4	.0		88.8
TOT PCT	4.3	5.2	1.1	.0	.0	.0	*	10.5	1.3	2.7	2.0	*	2.6	*		81.5
TOT OBS:	9460															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.4	4.6	.9	.0	.0	.0	*	8.8	1.8	.4	1.8	*	4.0	*		83.3
06&09	4.1	5.3	1.0	.0	.0	.0	.0	10.3	1.3	1.5	2.6	.0	3.0	*		81.7
12&15	5.7	5.5	1.4	.0	.0	.0	.0	12.6	1.0	7.0	1.4	.0	.7	.0		78.5
18&21	5.1	5.8	1.1	.0	.0	.0	.0	12.0	1.1	3.5	2.1	.0	2.1	.0		80.0
TOT PCT	4.5	5.3	1.1	.0	.0	.0	*	10.8	1.3	2.7	2.1	*	2.6	*		81.2
TOT OBS:	9750															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	6.9	6.9	1.3	.1	*		16.2	11.4	15.0	15.7	14.7	18.0	19.1	19.4	16.2	15.1
NE	.8	6.1	4.2	.6	.1	*		11.8	10.6	8.4	10.8	17.1	15.0	13.8	12.3	9.6	7.2
E	.8	5.0	2.4	.5	.1	*		8.8	10.8	5.4	7.9	11.5	11.3	9.0	10.1	7.9	6.6
SE	.7	5.3	4.8	1.4	.3	.1		12.5	13.0	8.4	12.6	16.8	18.0	11.8	11.9	9.9	8.9
S	.8	6.2	8.5	3.1	.7	.1		19.3	14.9	20.7	22.4	23.1	19.9	21.3	15.8	14.5	15.4
SW	.7	5.6	6.0	2.2	.4	*		14.9	13.6	22.0	14.9	9.1	8.7	12.1	14.1	17.9	21.2
W	.8	4.1	2.2	.4	.1	*		7.7	9.7	10.1	6.6	3.0	3.7	5.0	8.2	11.7	12.9
NW	.6	4.4	1.9	.3	*	*		7.2	9.7	8.5	7.6	3.3	4.2	5.4	6.7	10.2	11.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0	1.6	1.5	1.3	1.0	2.6	1.6	2.0	1.6
TOT OBS							15439		12.2	1351	2801	2867	1592	833	1422	2383	2190
TOT PCT	7.8	43.5	36.8	9.8	1.9	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.9	8.3	3.6	.4	*		16.2	11.4	15.5	15.9	19.3	15.7
NE	3.3	6.4	1.9	.2	*		11.8	10.6	10.0	16.4	12.8	8.5
E	2.8	4.4	1.2	.3	*		8.8	10.8	7.0	11.5	9.7	7.3
SE	2.7	6.2	2.7	.7	.1		12.5	13.0	11.2	17.2	11.9	9.4
S	3.1	8.7	5.8	1.4	.2		19.3	14.9	21.9	21.9	17.8	14.9
SW	2.7	6.9	4.2	1.0	.1		14.9	13.6	17.2	9.0	13.3	19.4
W	2.6	3.7	1.0	.2	.1		7.7	9.7	7.7	3.2	7.0	12.3
NW	2.6	3.7	.8	.1	*		7.2	9.7	8.0	3.7	6.1	10.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	1.5	1.2	2.0	1.8
TOT OBS						15439		12.2	4152	4459	2255	4573
TOT PCT	25.5	48.4	21.1	4.4	.6		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.5	6.9	43.4	36.8	9.0	2.0	.3	12.1	100.0	4152
06&09	1.2	5.3	41.5	38.7	10.8	2.2	.2	12.8	100.0	4459
12&15	2.0	5.1	42.1	37.0	11.5	2.1	.2	12.7	100.0	2255
18&21	1.8	7.0	46.3	35.0	8.5	1.3	.1	11.5	100.0	4573
TOT								12.2		15439
PCT	1.6	6.2	43.5	36.8	9.8	1.9	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.5	2.7	3.7	1.7		3.1
NE	5.0	1.8	3.4	1.9		3.9
E	2.4	1.2	2.7	1.9		4.7
SE	2.6	2.4	4.1	2.4		4.7
S	6.3	4.3	6.1	4.2		4.4
SW	7.5	2.8	3.8	1.4		3.4
W	4.6	1.2	.9	.6		2.9
NW	3.7	.8	1.1	.5		2.8
VAR	.0	.0	.0	.0		.0
CALM	1.0	.2	.3	.2		2.9
TOT OBS					3726	3.7
TOT PCT	41.7	17.4	26.2	14.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	.0	.1	.6	1.3	.6	.2	.1	.1	.2	13.6	
NE	*	.0	.2	.9	1.0	.7	.2	*	*	.1	9.0	
E	.0	*	.2	.9	1.2	.7	.2	*	*	*	4.8	
SE	*	*	.1	1.1	2.1	1.2	.3	*	.0	.0	6.7	
S	.1	*	.3	1.9	3.4	1.5	.4	.1	*	.1	13.1	
SW	.1	*	.2	.8	1.6	.7	.3	.1	*	*	11.6	
W	.0	.0	.0	.2	.4	.1	.1	.0	.1	.2	6.2	
NW	.0	.0	*	.1	.4	.2	.0	*	.1	*	5.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	*	.2	.1	.1	.0	.0	*	1.4	
TOT OBS												3726
TOT PCT	.2	.1	1.1	6.6	11.6	5.8	1.8	.3	.3	.7	71.5	100.0

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 >50YD	= OR >0
= OR >6500	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >5000	1.2	1.3	1.4	1.4	1.4	1.4	1.4	1.4
= OR >3500	2.7	3.1	3.1	3.1	3.1	3.1	3.1	3.1
= OR >2000	7.6	8.8	8.9	8.9	8.9	8.9	8.9	8.9
= OR >1000	16.1	20.0	20.5	20.5	20.5	20.5	20.5	20.5
= OR >600	20.2	26.0	27.0	27.1	27.1	27.1	27.1	27.1
= OR >300	20.5	26.7	27.9	28.0	28.2	28.2	28.2	28.2
= OR >150	20.5	26.8	28.0	28.2	28.3	28.3	28.3	28.3
= OR > 0	20.6	27.0	28.2	28.3	28.5	28.5	28.5	28.5

TOTAL NUMBER OF OBS: 3809

PCT FREQ NH <5/8: 71.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
15.7	22.4	14.6	10.4	7.7	5.4	6.5	6.8	10.4	.1	4322

PERIOD: (PRIMARY) 1908-1973
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	*	.0	*	.0	.0	.0	.0	.0	.1	
	NO PCP	*	*	.0	*	*	*	*	*	.0	*	.1	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.2	
1/2<1	PCP	.1	*	*	*	.1	*	.0	*	.0	.0	.3	
	NO PCP	.4	.2	.2	.2	.2	.1	*	.1	.0	.0	1.3	
	TOT %	.5	.3	.2	.2	.2	.1	*	.1	.0	.0	1.7	
1<2	PCP	*	.1	*	.1	*	.1	*	*	.0	.0	.3	
	NO PCP	.5	.3	.1	.1	.3	.1	.1	.2	.0	.0	1.6	
	TOT %	.6	.3	.1	.1	.3	.2	.1	.2	.0	.0	1.9	
2<5	PCP	.1	.1	.1	.1	.3	.1	.1	*	.0	.0	.8	
	NO PCP	.1	*	.1	.1	.2	.2	*	.1	.0	.0	.8	
	TOT %	.2	.2	.2	.2	.5	.3	.1	.1	.0	.0	1.6	
5<10	PCP	.7	.6	.9	1.3	2.0	1.2	.3	.2	.0	*	7.1	
	NO PCP	5.3	3.2	2.9	3.9	6.1	3.9	2.7	2.3	.0	.3	30.5	
	TOT %	5.9	3.8	3.7	5.2	8.1	5.1	3.0	2.5	.0	.3	37.6	
10+	PCP	.2	.2	.2	.3	.6	.3	.1	.1	.0	*	1.9	
	NO PCP	9.6	6.8	4.2	6.2	10.4	8.9	4.4	3.9	.0	.8	55.1	
	TOT %	9.8	7.0	4.4	6.4	11.0	9.2	4.5	4.0	.0	.8	57.0	
	TOT OBS												9457
	TOT PCT	16.9	11.6	8.6	12.2	20.1	14.8	7.7	6.9	.0	1.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	.0	.0	.0	*	*	.0	.0	*	*	
	4-10	.0	*	*	*	.0	.0	.0	*	.0		*	
	11-21	*	*	.0	*	*	*	*	*	.0		.1	
	22+	.0	.0	.0	.0	*	.0	.0	.0	.0		*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.2	
1/2<1	0-3	*	*	*	*	*	*	*	*	.0	.0	.1	
	4-10	.1	.1	.1	.1	.1	*	*	*	.0		.4	
	11-21	.2	.1	.1	.1	.1	*	.0	*	.0		.5	
	22+	.2	.1	*	.1	*	*	*	*	.0		.5	
	TOT %	.4	.2	.2	.2	.2	.1	*	.1	.0	.0	1.4	
1<2	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
	4-10	.2	.1	.1	*	.1	*	.1	.1	.0		.7	
	11-21	.2	.2	*	*	.2	.1	*	.1	.0		.8	
	22+	.1	*	*	*	*	*	.0	.0	.0		.2	
	TOT %	.5	.3	.1	.1	.3	.2	.1	.2	.0	*	1.9	
2<5	0-3	*	*	.0	*	*	*	.0	*	.0	*	.1	
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0		.7	
	11-21	.2	.1	.1	.2	.3	.2	*	*	.0		1.0	
	22+	*	.1	.1	*	.1	.1	*	*	.0		.4	
	TOT %	.3	.3	.2	.3	.6	.4	.1	.1	.0	*	2.2	
5<10	0-3	.5	.3	.3	.3	.3	.3	.3	.2	.0	.3	2.8	
	4-10	2.2	1.8	1.7	1.7	2.3	1.5	1.3	1.5	.0		14.0	
	11-21	2.0	1.2	1.0	1.9	3.1	1.9	.8	.6	.0		12.6	
	22+	.6	.2	.4	.9	1.5	1.0	.2	.1	.0		4.8	
	TOT %	5.4	3.5	3.4	4.8	7.2	4.7	2.6	2.3	.0	.3	34.2	
10+	0-3	.5	.4	.4	.3	.4	.4	.4	.4	.0	.9	4.0	
	4-10	4.1	4.0	3.0	3.5	3.6	3.9	2.7	2.7	.0		27.5	
	11-21	4.6	2.8	1.1	2.6	5.4	4.1	1.4	1.2	.0		23.4	
	22+	.6	.3	.1	.5	1.9	1.4	.3	.1	.0		5.2	
	TOT %	9.9	7.5	4.6	6.9	11.2	9.8	4.9	4.4	.0	.9	60.0	
	TOT OBS												11167
	TOT PCT	16.4	11.9	8.5	12.3	19.6	15.1	7.8	7.1	.0	1.2	100.0	

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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
00&03	.2	.1	.7	5.5	10.3	5.7	1.7	.1	.3	.7	25.1	74.9	1368
06&09	.2	.1	1.2	5.9	10.9	4.4	2.0	.3	.3	1.0	26.3	73.7	1213
12&15	.3	.3	1.0	8.5	10.7	5.1	1.3	.3	.4	.5	28.3	71.7	787
18&21	.1	.1	1.1	4.8	11.0	6.5	1.3	.7	.2	.4	26.4	73.6	778
TOT													4146
PCT	.2	.1	1.0	6.1	10.6	5.3	1.7	.3	.3	.7	26.3	73.7	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
00&03	.2	1.2	2.2	1.8	26.5	68.0	2942
06&09	.1	2.1	2.1	2.1	37.3	56.3	3321
12&15	.2	1.2	.9	2.5	32.8	62.5	1828
18&21	.2	1.4	2.0	2.5	40.1	53.8	3366
TOT							11457
PCT	.2	1.5	1.9	2.2	34.6	59.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.2	1.3	8.3	19.6	72.1	1268
06&09	.2	1.7	9.2	19.8	71.0	1117
12&15	.3	1.8	11.8	19.0	69.3	729
18&21	.1	1.6	8.3	22.0	69.7	695
TOT						3809
PCT	.2	1.5	9.2	20.0	70.8	100.0

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
90/94	.0	.0	.0	.0	*	.0	.0	.0		*
85/89	.0	.0	*	*	*	*	*	*		.2
80/84	.0	.0	*	.2	.5	.9	.4	.1		2.1
75/79	*	*	.2	.9	2.7	5.7	4.6	1.7		15.8
70/74	.0	.1	.6	2.0	6.8	8.2	8.1	4.0		29.9
65/69	*	.3	.9	3.1	5.4	7.2	6.7	3.3		27.0
60/64	.0	.2	1.2	2.4	4.6	5.1	3.7	2.0		19.1
55/59	.0	*	.4	.8	1.1	1.2	1.2	.6		5.3
50/54	.0	.0	.0	.1	.2	*	.2	.1		.7
TOTAL									6050	100.0
PCT	*	.6	3.3	9.5	21.4	28.4	24.9	12.0		

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	.0
	*	*	.0	*	.0	*	.0	*	.0	.0
	.7	.6	.2	.1	.2	.1	*	.1	.0	.1
	4.4	3.1	1.6	2.0	2.4	.8	.3	.9	.0	.2
	5.9	4.1	3.3	4.6	6.2	2.6	1.1	1.7	.0	.5
	4.1	2.8	2.1	3.2	6.1	4.2	2.1	2.0	.0	.4
	1.5	.9	.9	1.3	4.6	5.2	2.8	1.7	.0	.2
	.2	.1	.1	.1	.8	2.2	1.3	.4	.0	*
	*	.0	.0	*	*	.2	.3	*	.0	.0
TOTAL PCT	16.9	11.6	8.2	11.3	20.4	15.3	8.0	7.0	.0	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	90	78	76	70	63	60	49	69.5	4087
06&09	90	79	76	70	64	60	47	69.5	4434
12&15	80	75	73	68	62	59	51	67.7	2278
18&21	89	75	73	67	61	58	49	66.8	4589
TOT	90	78	75	69	62	59	47	68.4	15388

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	13.9	23.7	31.2	21.5	9.7	73	1806
06&09	.1	17.5	24.1	27.6	20.9	9.8	72	1833
12&15	.0	13.2	21.2	26.9	24.9	13.8	75	1023
18&21	.0	7.8	15.6	26.6	32.8	17.3	78	1595
TOT	2	833	1337	1766	1549	770	74	6257

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.0	4	.0	*
11/13	.0	.0	.0	*	.0	*	.1	*	*	*	*	19	*	.2
9/10	.0	.0	.0	.0	*	*	*	.1	*	*	*	14	*	.2
7/8	.0	.0	.0	*	*	.2	.2	.3	.1	*	.0	78	.0	.9
6	.0	.0	.0	*	*	.1	.2	.2	.1	*	.0	51	.1	.6
5	.0	.0	.0	.1	.1	.4	.4	.4	.2	.0	.0	131	*	1.5
4	.0	.0	*	.1	.2	.5	.8	.7	.1	.0	.0	216	.1	2.5
3	.0	.0	.0	.1	.4	.6	1.0	.7	.1	.0	.0	251	.1	2.9
2	.0	.0	*	.3	1.0	1.8	2.0	1.2	.2	.0	.0	532	.4	6.0
1	.0	.0	.1	.3	1.1	2.0	2.0	1.0	.1	.0	.0	545	.3	6.2
0	.0	*	.1	.8	2.2	2.9	3.3	1.2	.1	.0	.0	888	.3	10.3
-1	.0	*	.2	1.0	2.7	2.2	2.9	.9	*	.0	.0	846	.2	9.8
-2	.0	.1	.3	2.1	2.7	3.2	3.0	.6	.0	.0	.0	1010	.2	11.8
-3	*	*	.3	1.6	2.9	2.4	1.8	.2	.0	.0	.0	779	.2	9.0
-4	*	*	.5	2.5	2.4	2.4	1.7	.1	.0	.0	.0	818	.1	9.5
-5	*	.1	1.0	2.7	2.0	1.6	.8	*	*	.0	.0	703	.1	8.1
-6	.0	.1	.8	1.9	1.4	1.1	.3	*	.0	.0	.0	494	*	5.6
-7/-8	.0	.3	1.6	2.7	1.5	.9	.2	*	.0	.0	.0	624	.1	7.1
-9/-10	*	.4	1.2	1.2	.6	.2	*	.0	.0	.0	.0	314	*	3.6
-11/-13	*	.4	.5	.4	.1	*	.0	.0	.0	.0	.0	129	*	1.5
-14/-16	.1	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	32	.0	.4
-17/-19	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	.1
TOTAL												8484		
PCT	.2	1.6	6.7	17.8	21.3	22.6	20.8	7.8	1.1	.1	*	100.0	2.2	97.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.0	.1	.0	.0	.0	1.6
1-2	.1	3.0	1.8	.0	.0	.0	4.9
3-4	.1	1.6	3.7	.3	.0	.0	5.6
5-6	.0	.2	2.1	.5	*	.0	2.9
7	.0	.1	.8	.3	.0	.0	1.1
8-9	.0	*	.2	.1	.0	.0	.3
10-11	.0	.0	*	*	*	.0	.1
12	.0	.0	*	.1	*	.0	.1
13-16	.0	.0	.1	*	.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
TOT PCT	.7	5.9	8.7	1.3	.1	.0	16.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.1	.0	.0	.0	1.2
1-2	.1	2.8	1.1	.0	.0	.0	4.0
3-4	*	1.5	2.5	*	.0	.0	4.1
5-6	.0	.2	1.7	.2	.0	.0	2.1
7	.0	*	.5	.1	.0	.0	.6
8-9	.0	.0	.1	.2	.0	.0	.2
10-11	.0	.0	*	*	.0	.0	*
12	.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
TOT PCT	.4	5.5	5.9	.6	.0	.0	12.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.0	.0	.0	.0	1.2
1-2	.1	2.6	.4	.0	.0	.0	3.1
3-4	*	1.4	1.0	*	.0	.0	2.4
5-6	.0	.1	.6	.1	.0	.0	.7
7	.0	*	.2	*	.0	.0	.3
8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	*	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	*	.0	*
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.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
TOT PCT	.4	5.0	2.3	.3	.1	.0	8.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	*	.0	.0	.0	1.1
1-2	.2	2.0	.6	.0	.0	.0	2.8
3-4	*	1.6	2.3	.1	.0	.0	4.1
5-6	.0	.3	1.8	.3	.0	.0	2.4
7	.0	*	.5	.4	*	.0	1.0
8-9	.0	.0	.1	.1	*	.0	.2
10-11	.0	.0	*	.1	*	.0	.2
12	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	*	.0	.0	*
17-19	.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	.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
TOT PCT	.3	4.9	5.3	1.2	.2	.0	12.0

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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.1	.0	.0	.0	.9	.1	.9	.1	.0	.0	.0	1.2
1-2	.1	2.5	1.4	.0	.0	.0	4.0	.1	2.6	1.2	.0	.0	.0	4.0
3-4	*	1.8	4.2	.5	.0	.0	6.6	.1	1.6	2.6	.3	.0	.0	4.6
5-6	.0	.5	3.3	1.4	.1	.0	5.2	.0	.2	1.7	.7	*	.0	2.6
7	.0	.1	1.0	1.0	.1	.0	2.1	.0	.1	.6	1.0	.1	.0	1.7
8-9	.0	*	.3	.4	.1	.0	.8	.0	*	.2	.2	.0	.0	.4
10-11	.0	.0	.1	.3	.2	.0	.6	.0	.0	.1	.3	.1	.0	.5
12	.0	.0	*	.2	.1	.0	.3	.0	.0	*	.1	*	.0	.1
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.1	.1	.0	.2
17-19	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.1	*	.0	.1
20-22	.0	.0	.0	*	*	.0	.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	.1	.1	.1	.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
TOT PCT	.4	5.4	10.5	4.0	.8	.1	21.1	.3	5.5	6.6	2.6	.3	*	15.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	.8	.1	.0	.0	.0	1.2	.2	.5	*	.0	.0	.0	.7	
1-2	.1	2.1	.6	.0	.0	.0	2.8	*	2.1	.5	.0	.0	.0	2.6	
3-4	.0	.6	.7	*	.0	.0	1.4	.0	.6	.8	*	.0	.0	1.4	
5-6	.0	.2	.5	.1	*	.0	.8	.0	*	.5	*	.0	.0	.6	
7	.0	.0	.1	.2	*	.0	.3	.0	*	*	.1	*	.0	.1	
8-9	.0	.0	.1	*	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
12	*	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
13-16	.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	.1	.1	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.1	.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	
TOT PCT	.4	3.7	2.0	.3	.2	.1	6.7	.2	3.3	2.0	.1	*	.1	5.7	98.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.7	6.5	.4	.0	.0	.0	11.6	
1-2	1.1	19.8	7.4	.0	.0	.0	28.3	
3-4	.3	10.6	17.6	1.3	.0	.0	29.9	
5-6	.0	1.7	12.0	3.2	.2	.0	17.1	
7	.0	.3	3.6	3.0	.2	.0	7.1	
8-9	.0	.1	1.0	1.1	.1	.0	2.3	
10-11	.0	.0	.4	.8	.3	.0	1.5	
12	*	.0	.1	.3	.2	.0	.6	
13-16	.0	.0	.1	.3	.3	.0	.7	
17-19	.0	.0	.0	.1	.2	.0	.4	
20-22	.0	.0	.0	*	*	*	.1	
23-25	.0	.0	.0	.0	*	.1	.1	
26-32	.0	.0	.0	.0	.2	.2	.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	
								2998
TOT PCT	6.1	38.9	42.6	10.2	1.8	.3	100.0	

PERIOD: (OVER-ALL) 1949-1970

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	1.4	8.0	12.3	6.6	3.0	.7	.5	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1216	4
6-7	.0	.9	8.1	10.7	7.2	3.0	1.4	.8	.8	.3	*	*	.0	.0	.0	.0	.0	.0	.0	1226	6
8-9	.0	.4	2.6	3.8	5.3	3.3	1.7	.6	.7	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	702	7
10-11	.0	.1	.5	1.1	1.4	1.2	.7	.7	.3	.1	.1	*	.2	.0	.0	.0	.0	.0	.0	234	9
12-13	.0	.0	.2	.3	.4	.2	.2	.3	.3	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	81	9
>13	.0	.0	.0	.1	.1	.1	.1	.1	.2	*	.1	*	.1	.0	.0	.0	.0	.0	.0	40	13
INDET	1.1	.6	1.1	1.2	.5	.1	.2	.1	.1	*	*	.0	*	.0	.0	.0	.0	.0	.0	188	4
																				3687	6
TOTAL PCT	2.6	10.1	24.8	23.8	18.0	8.7	4.8	2.9	2.6	.8	.4	.2	.5	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1908-1973
(OVER-ALL) 1855-1973

AREA 0006 COFFS HARBOUR
30.3S 153.3E

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	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	*
83/84	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	10	.1
81/82	1.8	3.2	1.5	.2	.0	.0	.0	.0	.0	.0	.1	.5	83	.6
79/80	5.6	11.4	9.2	2.7	.1	.0	.0	.0	.0	.3	.4	1.7	366	2.6
77/78	19.0	27.3	24.1	11.0	1.5	.2	.0	.0	.1	.2	1.6	8.6	1099	7.7
75/76	30.1	28.4	33.3	24.0	6.4	.9	.5	.1	.3	1.1	5.7	18.4	1769	12.4
73/74	25.3	16.4	18.9	28.4	21.0	3.2	.7	.5	.9	6.1	14.3	29.0	1960	13.7
71/72	11.3	7.7	6.9	19.6	25.6	13.6	3.7	2.8	6.0	14.5	23.3	21.5	1869	13.1
69/70	4.0	3.4	3.7	8.6	23.3	29.3	15.3	10.1	15.1	25.3	27.2	12.4	2121	14.9
67/68	1.0	.7	1.4	5.0	15.1	24.7	28.0	29.8	29.8	27.3	15.4	4.8	2092	14.7
65/66	.7	.2	.3	1.7	5.7	14.6	26.4	28.1	26.4	15.5	7.8	1.7	1534	10.7
63/64	.2	.7	.2	.7	2.3	7.3	16.5	22.1	16.3	6.9	2.2	.4	902	6.3
61/62	.2	.2	.2	.1	.7	3.3	6.1	7.0	3.4	1.6	.3	.1	277	1.9
59/60	.0	.0	.0	.0	.2	1.9	1.0	3.1	1.1	.4	.2	.1	97	.7
57/58	.0	.0	.0	.0	.1	.5	.4	1.8	.3	.7	.2	.0	48	.3
55/56	.0	.0	.0	.0	.1	.4	.4	.5	.3	.2	.2	.0	24	.2
53/54	.0	.0	.0	.0	.0	.0	.1	.2	.2	.0	.0	.0	6	.1
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	1192	1074	1254	1246	1288	1293	1170	1219	1175	1070	1160	1120	14261	100.0
MEAN	74.7	75.6	75.3	73.4	70.6	67.9	66.3	65.4	66.5	68.2	70.2	72.8	70.5	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1014	1012	1012	1010	1014	1011	1012	1011	1012	766
FEB	1014	1013	1012	1013	1013	1014	1012	1013	1013	821
MAR	1017	1015	1015	1015	1016	1015	1015	1016	1015	791
APR	1018	1017	1016	1016	1018	1016	1015	1017	1017	880
MAY	1020	1019	1017	1019	1018	1018	1018	1018	1018	816
JUN	1021	1018	1017	1017	1018	1018	1019	1019	1018	790
JUL	1019	1019	1017	1019	1019	1019	1018	1020	1018	730
AUG	1019	1019	1017	1017	1018	1018	1017	1018	1018	737
SEP	1020	1017	1016	1017	1017	1018	1016	1017	1017	704
OCT	1018	1016	1015	1015	1017	1016	1016	1016	1016	694
NOV	1014	1013	1013	1012	1015	1013	1013	1014	1014	697
DEC	1013	1012	1011	1012	1013	1012	1012	1012	1012	661
ANN	1017	1016	1015	1015	1016	1016	1015	1016	1016	9087
OBS	1333	1344	1784	792	824	650	1364	996		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	991	997	1004	1008	1012	1016	1020	1024	1028
FEB	996	1000	1004	1009	1013	1017	1021	1024	1028
MAR	996	1003	1007	1012	1016	1019	1023	1026	1028
APR	1001	1002	1007	1013	1017	1021	1025	1028	1033
MAY	1002	1004	1008	1015	1019	1023	1027	1030	1032
JUN	995	1000	1007	1014	1019	1023	1029	1032	1033
JUL	995	1003	1007	1014	1019	1023	1027	1030	1033
AUG	992	997	1006	1014	1018	1022	1028	1032	1037
SEP	986	998	1005	1013	1018	1022	1027	1030	1033
OCT	996	1000	1004	1012	1016	1020	1025	1028	1033
NOV	992	1000	1004	1009	1014	1017	1023	1027	1031
DEC	994	999	1003	1009	1012	1016	1020	1023	1025

JANUARY

PERIOD: (PRIMARY) 1899-1973
(OVER-ALL) 1856-1973

AREA 0007 SYDNEY
33.2S 152.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.4	1.9	.9	.0	.0	.0	.0	5.1	.3	3.1	6.4	.0	4.9		.0	81.0
NE	2.8	2.0	1.1	.0	.0	.0	.0	6.0	.2	2.4	7.6	.0	2.5		.0	82.1
E	3.5	2.2	.7	.0	.0	.0	.0	6.0	.4	2.1	6.3	.0	1.4		.0	84.4
SE	4.1	6.8	1.0	.0	.0	.0	.0	11.8	.5	1.8	8.0	.0	1.1		.0	77.0
S	5.7	4.7	2.2	.0	.0	.0	.0	12.4	1.2	3.6	5.0	.0	.6		.0	78.6
SW	4.4	3.6	2.8	.0	.0	.0	.0	10.8	.2	3.1	6.9	.0	2.0		.0	79.2
W	3.2	.0	1.9	.0	.0	.0	.0	5.1	1.3	1.9	2.5	.0	3.2		.0	87.9
NW	1.4	1.4	3.2	.0	.0	.0	.0	6.1	1.4	2.2	2.9	.0	2.5		.0	84.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	2.1	.0	.0	.0	.0	.0	2.1	.0	2.1	.0	.0	.0		.0	95.7
TOT PCT	3.4	3.3	1.4	.0	.0	.0	.0	8.2	.5	2.6	6.3	.0	2.1		.0	81.2
TOT OBS:	2277															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.9	1.9	1.5	.0	.0	.0	.0	5.2	.2	.2	5.6	.0	2.8		.0	86.1
06&09	3.9	3.5	1.0	.0	.0	.0	.0	8.5	.4	3.0	7.6	.0	2.8		.0	79.4
12&15	5.7	3.0	1.3	.0	.0	.0	.0	9.9	1.0	7.2	4.4	.0	.8		.0	78.7
18&21	3.8	3.8	1.4	.0	.0	.0	.0	9.0	.4	1.2	6.7	.0	1.6		.0	81.3
TOT PCT	3.9	3.2	1.3	.0	.0	.0	.0	8.3	.5	2.9	6.3	.0	2.0		.0	81.1
TOT OBS:	2484															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	5.6	5.6	1.5	.1	.0		14.1	12.1	18.1	15.0	9.7	12.8	13.6	14.9	15.9	15.8
NE	2.4	11.2	9.2	1.0	*	.0		23.8	10.4	17.0	20.8	31.5	30.6	25.9	25.4	17.9	16.8
E	1.5	7.0	3.2	.2	.0	*		11.9	8.8	10.9	11.7	18.5	12.6	12.4	11.3	9.8	6.8
SE	1.4	8.9	5.0	1.0	.1	.0		16.3	10.4	13.2	16.0	18.0	17.3	14.8	18.4	16.1	13.6
S	1.5	7.2	6.9	2.2	.2	*		18.1	12.6	21.9	18.0	14.4	15.0	23.3	17.4	20.6	19.8
SW	1.0	2.7	2.5	.6	.1	*		7.0	11.6	10.3	6.8	3.4	5.3	3.8	5.2	10.8	11.4
W	1.1	1.4	.7	.1	*	.0		3.3	8.0	1.3	4.6	1.9	2.4	1.4	4.1	2.7	6.2
NW	.5	1.6	1.1	.2	*	.0		3.3	10.3	5.8	3.9	2.0	1.1	3.9	2.2	4.1	5.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2							2.2	.0	1.4	3.4	.7	2.9	.9	1.0	2.1	3.7
TOT OBS	396	1412	1060	212	21	3	3104		10.6	138	525	451	511	222	402	481	374
TOT PCT	12.8	45.5	34.1	6.8	.7	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.4	7.2	3.0	.5	*		14.1	12.1	15.6	11.3	14.4	15.8
NE	6.7	13.2	3.7	.2	*		23.8	10.4	20.0	31.0	25.6	17.4
E	4.9	6.1	.9	*	*		11.9	8.8	11.5	15.3	11.7	8.5
SE	5.0	8.7	2.2	.4	*		16.3	10.4	15.4	17.6	17.1	15.0
S	4.3	8.6	4.3	.8	.1		18.1	12.6	18.8	14.7	19.5	20.3
SW	2.2	2.8	1.6	.3	*		7.0	11.6	7.5	4.4	4.7	11.1
W	1.8	1.0	.4	.1	.0		3.3	8.0	3.9	2.2	3.1	4.2
NW	1.1	1.6	.5	.1	.0		3.3	10.3	4.3	1.5	2.8	4.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.2						2.2	.0	3.0	1.9	1.0	2.8
TOT OBS	985	1530	511	71	7	3104		10.6	663	962	624	855
TOT PCT	31.7	49.3	16.5	2.3	.2		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1899-1973
(OVER-ALL) 1856-1973

AREA 0007 SYDNEY
33.2S 152.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.0	10.3	48.3	30.0	7.5	.9	.0	10.4	100.0	663
06&09	1.9	8.6	44.8	37.8	6.2	.5	.1	10.9	100.0	962
12&15	1.0	8.2	41.3	40.7	7.5	1.1	.2	11.8	100.0	624
18&21	2.8	14.7	47.1	28.4	6.4	.4	.1	9.7	100.0	855
TOT	68	328	1412	1060	212	21	3	10.6		3104
PCT	2.2	10.6	45.5	34.1	6.8	.7	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.7	3.2	3.1	2.0		3.2
NE	13.2	4.2	3.8	1.1		2.6
E	4.1	3.4	3.2	2.1		3.9
SE	4.0	3.2	3.5	4.0		4.7
S	3.6	4.4	6.7	5.6		5.2
SW	2.3	1.1	2.1	.8		3.9
W	.9	.5	.1	.2		3.2
NW	1.2	.7	1.4	1.0		4.6
VAR	.0	.0	.0	.0		.0
CALM	.9	.0	.2	.4		3.0
TOT OBS	216	118	138	98	570	3.9
TOT PCT	37.9	20.7	24.2	17.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.8	1.8	.7	.2	.4	.0	.0	12.2	
NE	.0	.0	.2	.2	1.9	1.2	.2	.0	.0	.0	18.6	
E	.0	.0	.0	.5	1.3	1.4	.7	.0	.0	.0	8.9	
SE	.0	.2	.0	.8	3.5	1.1	.3	.2	.0	.0	8.7	
S	.0	.0	.5	2.5	4.4	2.1	.6	.0	.0	.0	10.3	
SW	.0	.0	.2	.1	.8	.5	.0	.0	.0	.0	4.7	
W	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	1.6	
NW	.0	.0	.0	.2	.9	.3	.4	.2	.0	.2	2.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.2	.0	.4	.0	.0	.0	.0	.0	.9	
TOT OBS	0	1	7	29	85	42	13	4	0	1	388	570
TOT PCT	.0	.2	1.2	5.1	14.9	7.4	2.3	.7	.0	.2	68.1	100.0

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 >50YD	= OR >0
= OR >6500	.0	.2	.2	.2	.2	.2	.2	.2
= OR >5000	.7	.9	.9	.9	.9	.9	.9	.9
= OR >3500	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1
= OR >2000	9.6	10.1	10.3	10.3	10.5	10.5	10.5	10.5
= OR >1000	21.3	25.1	25.5	25.5	25.7	25.7	25.7	25.7
= OR >600	24.4	30.2	30.5	30.5	30.7	30.7	30.7	30.7
= OR >300	25.0	31.2	31.8	31.8	31.9	31.9	31.9	31.9
= OR >150	25.0	31.4	31.9	31.9	32.1	32.1	32.1	32.1
= OR > 0	25.0	31.4	31.9	31.9	32.1	32.1	32.1	32.1
TOTAL	143	180	183	183	184	184	184	184

TOTAL NUMBER OF OBS: 573

PCT FREQ NH <5/8: 67.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.3	17.1	14.4	11.6	9.3	5.4	6.2	7.8	13.8	.0	644

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PERIOD: (PRIMARY) 1899-1973
(OVER-ALL) 1856-1973

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	NO PCP	*	.0	*	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	*	.0	*	*	*	.0	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	*	.1	*	.0	*	.0	.0	.2	
	NO PCP	.5	1.6	.6	.6	.6	.5	.1	*	.0	.0	4.5	
	TOT %	.5	1.6	.6	.6	.7	.5	.1	.1	.0	.0	4.7	
1<2	PCP	.0	*	.0	.1	*	.0	.0	.0	.0	.0	.2	
	NO PCP	.3	.3	.1	.1	.1	*	.1	.1	.0	.0	1.0	
	TOT %	.3	.4	.1	.2	.1	*	.1	.1	.0	.0	1.2	
2<5	PCP	.1	*	.1	.0	*	.0	*	.0	.0	.0	.4	
	NO PCP	*	.1	.1	.2	.1	*	.1	.0	.0	.0	.7	
	TOT %	.2	.1	.2	.2	.1	*	.1	.0	.0	.0	1.0	
5<10	PCP	.4	1.1	.5	1.6	1.8	.5	.1	.1	.0	*	6.1	
	NO PCP	4.7	10.1	5.2	7.2	8.8	2.6	1.5	1.3	.0	.5	41.9	
	TOT %	5.1	11.2	5.8	8.7	10.5	3.1	1.7	1.4	.0	.5	48.0	
10+	PCP	.2	.3	.1	.1	.4	.2	.0	.1	.0	.0	1.4	
	NO PCP	7.2	10.7	5.5	5.7	6.9	3.1	1.5	1.5	.0	1.5	43.6	
	TOT %	7.4	11.0	5.6	5.8	7.3	3.3	1.5	1.5	.0	1.5	45.0	
	TOT OBS												2277
	TOT PCT	13.5	24.3	12.2	15.6	18.8	7.0	3.5	3.0	.0	2.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.0	.0	.0	.0	.0	.0	.0	.0		*	
	11-21	.0	.0	*	*	*	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	*	*	*	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.1	.1	.1	.2	.2	.1	*	*	.0	.0	.8	
	4-10	.1	.7	.4	.4	.1	.1	.1	.1	.0		1.9	
	11-21	.1	.5	.1	.0	.3	.1	.0	.0	.0		1.0	
	22+	.1	.1	.0	*	.2	.1	*	.0	.0		.6	
	TOT %	.4	1.5	.5	.6	.7	.4	.1	.1	.0	.0	4.3	
1<2	0-3	.0	*	.0	*	*	.0	.0	*	.0	.0	.1	
	4-10	.1	.2	.1	.1	*	*	*	.0	.0		.6	
	11-21	.2	.2	.0	*	.1	*	.1	*	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.4	.1	.2	.1	.1	.2	.1	.0	.0	1.3	
2<5	0-3	.1	*	.0	.0	.0	.0	*	.0	.0	*	.2	
	4-10	.1	*	.1	.2	.2	*	*	*	.0		.6	
	11-21	.1	.2	.1	.2	.2	*	.0	.0	.0		.9	
	22+	*	*	*	.0	.1	.1	*	.0	.0		.3	
	TOT %	.3	.3	.3	.4	.5	.1	.1	*	.0	*	2.0	
5<10	0-3	.5	1.6	1.0	.9	1.0	.5	.6	.4	.0	.6	7.1	
	4-10	2.0	5.7	3.3	4.4	4.4	.9	.6	.5	.0		21.8	
	11-21	1.6	2.9	.9	2.3	2.9	1.0	.3	.4	.0		12.3	
	22+	.7	.4	.2	.7	1.6	.4	.1	.1	.0		4.2	
	TOT %	4.8	10.6	5.4	8.3	10.0	2.9	1.5	1.3	.0	.6	45.4	
10+	0-3	.5	.9	.5	.4	.4	.5	.7	.1	.0	1.6	5.6	
	4-10	2.7	4.6	3.2	3.7	2.7	1.4	.7	.8	.0		19.8	
	11-21	3.5	5.3	2.0	2.3	3.8	1.4	.2	.6	.0		19.0	
	22+	.8	.4	*	.3	.6	.1	*	.1	.0		2.3	
	TOT %	7.5	11.2	5.6	6.8	7.4	3.4	1.6	1.6	.0	1.6	46.8	
	TOT OBS												2538
	TOT PCT	13.4	23.9	11.9	16.3	18.7	6.9	3.6	3.1	.0	2.2	100.0	

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PERIOD: (PRIMARY) 1899-1973
(OVER-ALL) 1856-1973

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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
00&03	.0	.0	.0	5.7	14.9	7.8	2.1	1.4	.0	.0	31.9	68.1	141
06&09	.0	.0	.0	5.2	11.2	6.0	1.7	.9	.0	.9	25.9	74.1	116
12&15	.0	.5	2.4	4.2	17.9	7.1	2.4	.5	.0	.0	34.9	65.1	212
18&21	.0	.0	1.4	4.1	10.3	6.8	2.1	.0	.0	.0	24.7	75.3	146
TOT	0	1	7	29	87	43	13	4	0	1	185	430	615
PCT	.0	.2	1.1	4.7	14.1	7.0	2.1	.7	.0	.2	30.1	69.9	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
00&03	.2	4.2	.8	1.5	44.3	49.1	481
06&09	.2	5.1	1.7	2.0	53.5	37.5	865
12&15	.0	2.6	.9	1.7	42.0	52.9	586
18&21	.1	5.0	1.6	2.3	50.2	40.7	813
TOT	4	120	37	53	1330	1201	2745
PCT	.1	4.4	1.3	1.9	48.5	43.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <30YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	6.9	26.9	66.2	130
06&09	.0	.0	6.9	23.5	69.6	102
12&15	.0	2.9	7.2	28.2	64.6	209
18&21	.0	2.3	7.6	19.7	72.7	132
TOT	0	9	41	144	388	573
PCT	.0	1.6	7.2	25.1	67.7	100.0

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
90/94	.0	.0	.1	.1	.0	.1	.0	.0	3	.3
85/89	.0	.0	.2	.3	.1	.1	.3	.1	11	1.0
80/84	.0	.0	.0	.3	1.3	.8	.3	.3	35	3.0
75/79	.0	.2	.3	.9	1.8	6.2	7.6	4.5	246	21.4
70/74	.0	.1	.3	1.7	7.0	12.2	13.1	12.9	542	47.2
65/69	.0	.0	.2	1.1	6.6	7.7	6.8	2.8	290	25.2
60/64	.0	.0	.0	.4	.3	.2	.7	.1	20	1.7
55/59	.0	.0	.0	.0	.0	.0	.1	.1	2	.2
TOTAL	0	3	12	55	197	313	330	239	1149	100.0
PCT	.0	.3	1.0	4.8	17.1	27.2	28.7	20.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	.0	.1	.0	.0	.1
.2	.3	.0	.0	.0	.0	.3	.1	.0	.2
.8	.7	.2	.1	.2	.2	.1	.3	.0	.5
5.5	7.0	2.1	1.4	1.5	.8	1.0	1.4	.0	.8
7.6	12.1	6.3	6.7	6.9	2.9	1.5	1.5	.0	1.7
1.4	1.8	2.5	5.9	8.7	3.7	.8	.1	.0	.3
.1	*	*	.3	.7	.4	.1	.0	.0	.1
.0	.0	.0	.0	.1	.0	.1	.0	.0	.0
15.6	21.9	11.2	14.4	18.1	8.0	3.9	3.4	.0	3.6

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	89	85	81	73	67	64	63	73.5	665
06&09	90	82	79	73	67	65	60	72.7	983
12&15	85	78	75	71	66	63	59	70.7	661
18&21	92	80	77	70	65	62	58	70.4	946
TOT	92	82	79	72	66	63	58	71.8	3255

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	12.7	23.2	25.7	24.9	13.5	75	237
06&09	.0	6.1	16.8	29.4	29.7	18.0	78	327
12&15	.0	2.4	17.0	25.3	28.1	27.1	80	288
18&21	.0	4.6	13.2	27.6	31.3	23.3	80	326
TOT	0	72	202	320	339	245	78	1178

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PERIOD: (PRIMARY) 1899-1973
(OVER-ALL) 1856-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	89 92	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.1	.0	.0	.1	2	.0	.1
11/13	.0	.0	.0	.1	.4	.1	.2	.1	.0	15	.0	.8
9/10	.0	.0	.0	.4	.2	.3	.3	.1	.0	24	.0	1.2
7/8	.0	.0	.1	.1	.4	1.1	.3	.1	.0	38	.2	1.8
6	.0	.0	.1	.0	.4	.8	.2	.0	.0	29	.2	1.3
5	.0	.0	.1	.3	1.3	1.1	.0	.0	.0	52	.3	2.3
4	.0	.0	.1	.5	2.1	.7	.0	.0	.0	65	.5	2.8
3	.0	.0	.2	.7	3.0	.6	.1	.0	.0	89	.5	4.1
2	.0	.0	.2	2.9	4.1	.9	.2	.0	.0	163	.6	7.7
1	.0	.0	.5	5.0	4.7	.6	.0	.0	.0	212	1.1	9.6
0	.0	.1	1.5	7.9	4.2	1.2	.0	.0	.0	292	1.0	13.8
-1	.0	.1	1.6	6.9	2.6	.3	.0	.0	.0	226	.6	10.9
-2	.1	.1	4.0	5.9	2.5	.2	.0	.0	.0	249	1.0	11.6
-3	.0	.1	3.8	3.8	.7	.1	.0	.0	.0	165	.5	7.9
-4	.0	.2	3.3	2.5	.9	.0	.0	.0	.0	135	.7	6.2
-5	.0	.4	2.3	1.3	.4	.0	.0	.0	.0	86	.2	4.2
-6	.1	.4	1.2	.9	.3	.0	.0	.0	.0	55	.2	2.6
-7/-8	.1	.3	1.0	1.1	.1	.0	.0	.0	.0	47	.1	2.3
-9/-10	.0	.3	.4	.2	.0	.0	.0	.0	.0	17	.0	.9
-11/-13	.1	.1	.3	.1	.0	.0	.0	.0	.0	8	.0	.4
TOTAL	4	35	399	799	552	154	22	3	1	1969	144	1825
PCT	.2	1.8	20.3	40.6	28.0	7.8	1.1	.2	.1	100.0	7.3	92.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.0	.0	.0	.0	.8
1-2	.0	1.6	1.3	.0	.0	.0	2.9
3-4	.0	1.8	2.7	.4	.0	.0	4.9
5-6	.0	.7	2.7	.4	.0	.0	3.8
7	.0	.0	1.1	.4	.0	.0	1.5
8-9	.0	.0	.5	.7	.0	.0	1.2
10-11	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.2	.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
TOT PCT	.2	4.7	8.3	2.7	.0	.0	15.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.5	.0	.0	.0	.0	2.1
1-2	.0	3.0	2.3	.0	.0	.0	5.3
3-4	.0	2.0	6.4	.1	.0	.0	8.5
5-6	.0	.7	2.3	.1	.0	.0	3.1
7	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.6	7.3	11.9	.7	.0	.0	20.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.5	3.4	.8	.0	.0	.0	4.7
3-4	.0	2.3	3.2	.2	.0	.0	5.7
5-6	.0	.2	2.0	.0	.0	.0	2.2
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.2	.0	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.5	6.8	6.4	.2	.0	.0	14.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.0	.0	.0	.0	.8
1-2	.0	3.0	.5	.0	.0	.0	3.5
3-4	.0	2.3	4.1	.0	.0	.0	6.5
5-6	.0	.5	2.2	.1	.0	.0	2.8
7	.0	.2	.4	.2	.0	.0	.9
8-9	.0	.0	.2	.4	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.3	6.5	7.5	.7	.0	.0	15.1

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.6	.0	.0	.0	.0	1.8
1-2	.2	2.8	.4	.0	.0	.0	3.5
3-4	.0	2.3	5.9	.0	.0	.0	8.3
5-6	.0	.2	2.5	1.2	.0	.0	3.9
7	.0	.0	1.5	.7	.0	.0	2.2
8-9	.0	.0	.2	1.0	.2	.0	1.5
10-11	.0	.0	.0	.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
TOT PCT	.4	7.0	10.6	3.4	.2	.0	21.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.2	.8	.3	.0	.0	.0	1.4
3-4	.0	1.2	1.2	.0	.0	.0	2.4
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.3	.1	.0	.0	.4
8-9	.0	.2	1.0	.0	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.2	.2	.0	.0	.5
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
TOT PCT	.2	2.5	3.3	.3	.0	.0	6.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.2	.0	.0	.0	.2
5-6	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.2	.2	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.2	.7	.4	.2	.0	.0	1.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.1	.0	.0	.0	.0	.2	
1-2	.0	1.0	.2	.0	.0	.0	1.3	
3-4	.0	.1	1.2	.0	.0	.0	1.2	
5-6	.0	.1	.7	.0	.0	.0	.7	
7	.0	.0	.6	.1	.0	.0	.7	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	.1	1.3	2.7	.1	.0	.0	4.1	99.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.7	5.6	.0	.0	.0	.0	8.3	
1-2	1.2	15.4	5.9	.0	.0	.0	22.5	
3-4	.0	12.5	24.7	.7	.0	.0	37.9	
5-6	.0	2.7	12.5	1.7	.0	.0	16.9	
7	.0	.2	5.4	1.7	.0	.0	7.3	
8-9	.0	.5	2.0	2.7	.2	.0	5.4	
10-11	.0	.0	.0	1.0	.0	.0	1.0	
12	.0	.0	.2	.5	.0	.0	.7	
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	
								409
TOT PCT	3.9	36.9	50.6	8.3	.2	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

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	7.8	14.4	7.2	2.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	172	3
6-7	.0	.8	10.0	12.6	6.8	4.6	2.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	187	5
8-9	.0	.6	1.6	2.2	4.6	2.2	2.4	.4	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	7
10-11	.0	.4	.6	1.2	.2	1.6	.4	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	7
12-13	.0	.0	.4	.2	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
>13	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
INDET	.4	.4	2.2	2.4	.4	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	4
TOTAL	11	50	146	129	75	47	29	5	7	1	0	0	0	0	0	0	0	0	0	500	5
PCT	2.2	10.0	29.2	25.8	15.0	9.4	5.8	1.0	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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PERIOD: (PRIMARY) 1910-1973
(OVER-ALL) 1856-1973

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.6	1.3	.4	.0	.0	.0	.0	4.3	.6	4.7	6.3	.0	1.5	.3	83.5
NE	3.8	3.3	1.0	.0	.0	.0	.0	8.1	.5	1.3	4.4	.0	1.9	.0	83.8
E	3.7	3.2	1.6	.0	.0	.0	.0	8.4	1.0	1.8	1.8	.0	.5	.0	86.8
SE	5.7	7.6	1.8	.0	.0	.0	.0	15.1	.4	.8	3.3	.0	2.1	.0	78.2
S	5.3	4.1	1.9	.0	.0	.0	.0	11.3	.7	1.5	3.2	.0	1.3	.0	83.0
SW	3.8	2.1	.0	.0	.0	.0	.0	5.9	1.3	3.6	6.2	.0	2.3	.0	82.0
W	9.1	.0	3.0	.0	.0	.0	.0	12.2	5.1	4.6	3.0	.0	5.1	.0	71.1
NW	1.3	3.2	1.9	.0	.0	.0	.0	6.4	.5	5.3	3.2	.0	2.1	.0	82.4
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	4.8	.0	.0	.0	.0	95.2
TOT PCT	4.1	3.7	1.3	.0	.0	.0	.0	9.1	.8	2.3	3.9	.0	1.7	*	82.7
TOT OBS:	2097														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.7	2.8	1.2	.0	.0	.0	.0	7.7	.5	.2	3.5	.0	1.4	.0	87.0
06&09	4.7	4.1	.9	.0	.0	.0	.0	9.8	.3	1.3	4.4	.0	2.2	.1	82.7
12&15	3.3	2.5	.9	.0	.0	.0	.0	6.7	1.6	5.1	4.0	.0	1.3	.0	81.9
18&21	4.7	4.3	2.1	.0	.0	.0	.0	11.1	.8	2.7	4.3	.0	1.8	.0	79.8
TOT PCT	4.2	3.6	1.3	.0	.0	.0	.0	9.1	.7	2.3	4.1	.0	1.7	*	82.5
TOT OBS:	2176														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	6.1	6.0	1.1	*	.0		14.3	11.5	17.0	11.0	11.2	13.2	11.9	18.3	18.8	15.3
NE	1.9	11.4	8.6	1.0	.1	.0		23.0	10.6	15.0	19.5	28.9	27.9	27.2	26.3	18.5	16.8
E	1.3	8.0	4.4	.6	.3	.0		14.5	10.5	16.9	14.8	16.6	13.9	17.1	13.0	14.9	10.8
SE	1.7	7.4	6.3	1.7	.2	.0		17.3	11.6	12.8	19.6	19.1	20.7	12.0	17.5	15.9	14.1
S	1.7	5.3	6.2	2.5	.3	.1		16.1	13.6	17.2	19.1	14.7	16.1	20.8	13.3	14.9	14.4
SW	1.1	3.0	1.8	.8	.1	.0		6.7	11.3	13.3	8.9	4.7	4.0	4.1	4.5	5.8	12.3
W	.4	1.2	.6	.1	*	.0		2.3	9.4	3.3	2.1	1.8	1.3	1.6	1.8	2.8	4.7
NW	1.1	2.0	.7	.3	*	.0		4.1	8.3	3.7	3.8	2.8	2.1	4.9	3.8	5.2	7.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0	.7	1.3	.2	.9	.5	1.5	3.2	4.0
TOT OBS	334	1236	968	226	29	2	2795		11.1	135	478	418	456	219	331	436	322
TOT PCT	11.9	44.2	34.6	8.1	1.0	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.8	7.0	3.4	.2	.0		14.3	11.5	12.3	12.2	15.7	17.3
NE	6.2	12.9	3.7	.2	*		23.0	10.6	18.5	28.4	26.6	17.8
E	4.3	8.3	1.3	.5	.1		14.5	10.5	15.3	15.2	14.6	13.2
SE	5.0	8.3	3.2	.8	*		17.3	11.6	18.1	19.9	15.3	15.1
S	4.0	6.2	4.7	1.0	.2		16.1	13.6	18.7	15.4	16.3	14.7
SW	2.3	2.8	1.2	.4	*		6.7	11.3	9.9	4.3	4.4	8.6
W	1.1	.8	.4	*	.0		2.3	9.4	2.4	1.5	1.7	3.6
NW	2.0	1.6	.4	*	.0		4.1	8.3	3.8	2.4	4.2	6.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	1.1	.6	1.1	3.6
TOT OBS	447	1339	510	89	10	2795		11.1	613	874	550	758
TOT PCT	30.3	47.9	18.2	3.2	.4		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1910-1973
(OVER-ALL) 1856-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.1	13.9	44.4	29.9	9.0	1.6	.2	11.0	100.0	613
06&09	.6	8.6	44.6	38.2	7.0	.9	.1	11.4	100.0	874
12&15	1.1	6.7	42.5	39.6	8.9	1.1	.0	12.1	100.0	550
18&21	3.6	12.1	44.9	30.7	8.0	.7	.0	10.3	100.0	758
TOT	45	289	1236	968	226	29	2	11.1		2795
PCT	1.6	10.3	44.2	34.6	8.1	1.0	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.3	2.8	4.1	1.1		3.2
NE	11.4	2.6	4.6	2.2		3.0
E	5.6	3.6	5.0	2.3		4.0
SE	3.8	1.5	4.6	3.7		4.9
S	4.3	3.3	6.8	3.6		4.8
SW	1.5	2.4	2.8	.8		4.5
W	1.2	.8	.9	.3		3.5
NW	1.6	.7	.8	1.0		4.0
VAR	.0	.0	.0	.0		.0
CALM	.3	.3	.3	.2		4.4
TOT OBS	221	108	179	91	599	4.0
TOT PCT	36.9	18.0	29.9	15.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	.8	.8	.4	.4	.0	.0	.1	12.6	
NE	.0	.0	.1	1.1	1.9	.8	.5	.3	.0	.2	16.0	
E	.0	.0	.3	1.3	2.0	1.1	.6	.1	.2	.0	11.0	
SE	.0	.0	.2	.9	3.4	1.5	.5	.0	.2	.0	6.8	
S	.0	.2	.2	1.4	3.1	2.5	.9	.2	.0	.0	9.6	
SW	.0	.0	.0	.6	1.1	.7	.3	.0	.0	.2	4.6	
W	.0	.0	.0	.0	.1	.5	.2	.0	.0	.0	2.3	
NW	.0	.0	.2	.3	.5	.3	.2	.0	.0	*	2.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.8	
TOT OBS	0	1	6	39	78	48	21	3	2	3	398	599
TOT PCT	.0	.2	1.0	6.5	13.0	8.0	3.5	.5	.3	.5	66.4	100.0

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 >50YD	= OR >0
= OR >6500	.7	.8	.8	.8	.8	.8	.8	.8
= OR >5000	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >3500	4.1	4.8	4.8	4.8	4.8	4.8	4.8	4.8
= OR >2000	10.4	12.2	12.4	12.4	12.4	12.4	12.5	12.5
= OR >1000	21.8	25.4	25.7	25.7	25.7	25.7	25.9	25.9
= OR >600	25.4	31.4	32.2	32.2	32.2	32.2	32.3	32.3
= OR >300	25.7	32.3	33.3	33.3	33.3	33.3	33.5	33.5
= OR >150	25.9	32.5	33.5	33.5	33.5	33.5	33.7	33.7
= OR > 0	25.9	32.5	33.5	33.5	33.5	33.5	33.7	33.7
TOTAL	157	197	203	203	203	203	204	204

TOTAL NUMBER OF OBS: 606

PCT FREQ NH <5/8: 66.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
12.9	16.3	16.0	11.2	8.6	6.8	9.3	9.0	9.8	.0	731

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PERIOD: (PRIMARY) 1910-1973
(OVER-ALL) 1856-1973

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	*	.0	.1	*	*	.1	.0	*	.0	.0	.2	
	TOT %	*	.1	.1	*	*	.1	.0	*	.0	.0	.3	
1/2<1	PCP	.0	.2	*	.1	*	*	.0	.0	.0	.0	.4	
	NO PCP	.3	.2	.2	.2	.3	.2	*	.0	.0	.0	1.5	
	TOT %	.3	.4	.2	.3	.3	.3	*	.0	.0	.0	1.9	
1<2	PCP	.0	*	.0	*	*	*	*	.0	.0	.0	.2	
	NO PCP	.3	.3	*	.3	.2	*	.1	.1	.0	.0	1.3	
	TOT %	.3	.4	*	.4	.2	*	.1	.1	.0	.0	1.5	
2<5	PCP	*	*	.1	*	*	.1	.0	*	.0	.0	.3	
	NO PCP	.2	.1	.1	.1	.3	*	.0	*	.0	.0	.8	
	TOT %	.2	.1	.2	.2	.3	.1	.0	*	.0	.0	1.1	
5<10	PCP	.5	1.2	.9	2.0	1.4	.2	.2	.2	.0	.0	6.8	
	NO PCP	5.7	8.6	5.2	5.6	5.0	2.1	.8	1.7	.0	.4	35.2	
	TOT %	6.3	9.8	6.2	7.7	6.4	2.3	1.1	1.9	.0	.4	42.0	
10+	PCP	*	.3	.2	.3	.4	.1	*	*	.0	.0	1.4	
	NO PCP	7.2	11.8	7.6	8.0	8.8	4.4	1.1	2.4	.0	.6	51.8	
	TOT %	7.3	12.1	7.7	8.3	9.1	4.5	1.1	2.4	.0	.6	53.2	
	TOT OBS												2094
	TOT PCT	14.3	23.0	14.4	16.9	16.4	7.3	2.3	4.5	.0	1.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.1	.1	*	.0	*	.0	*	.0		.3	
	11-21	.0	.1	.0	.0	*	*	.0	.0	.0		.1	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	.2	.1	*	*	.1	.0	*	.0	.0	.5	
1/2<1	0-3	.1	*	.1	.0	.0	*	*	.0	.0	.0	.3	
	4-10	.1	.2	.1	.1	.1	.1	.0	.0	.0		.6	
	11-21	.1	.2	.0	.2	.2	.1	.0	.0	.0		.7	
	22+	*	*	*	.1	*	*	.0	.0	.0		.2	
	TOT %	.3	.4	.2	.3	.3	.3	*	.0	.0	.0	1.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.2	*	.2	.1	*	.1	.1	.0		.9	
	11-21	.1	.1	.0	.1	.1	*	.1	.0	.0		.5	
	22+	*	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.2	.4	*	.4	.3	*	.2	.1	.0	.0	1.6	
2<5	0-3	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	4-10	.1	.1	.1	.1	.0	*	.0	*	.0		.5	
	11-21	.1	.1	*	.2	.2	*	.0	.0	.0		.7	
	22+	*	*	*	.0	.2	*	.0	.0	.0		.4	
	TOT %	.2	.2	.2	.3	.4	.1	.0	*	.0	.0	1.5	
5<10	0-3	.4	.9	.7	.8	.9	.3	.2	.5	.0	.4	5.2	
	4-10	2.1	4.0	2.6	2.9	2.0	1.1	.5	.8	.0		16.0	
	11-21	2.8	4.0	2.1	2.4	2.1	.6	.2	.3	.0		14.4	
	22+	.6	.5	.5	1.1	1.2	.2	.1	.2	.0		4.4	
	TOT %	5.9	9.4	5.8	7.2	6.2	2.2	1.0	1.8	.0	.4	39.9	
10+	0-3	.5	1.1	.6	1.0	.9	1.0	.2	.6	.0	.9	6.7	
	4-10	3.1	6.8	5.0	4.0	3.1	1.8	.5	1.2	.0		25.4	
	11-21	3.3	4.6	2.4	3.5	3.6	1.0	.4	.4	.0		19.2	
	22+	.3	.3	*	.6	1.3	.6	.1	.1	.0		3.4	
	TOT %	7.2	12.8	8.0	9.1	8.9	4.4	1.1	2.3	.0	.9	54.7	
	TOT OBS												2270
	TOT PCT	13.9	23.4	14.3	17.3	16.1	7.1	2.3	4.3	.0	1.3	100.0	

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PERIOD: (PRIMARY) 1910-1973
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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
00&03	.0	.0	.0	5.3	15.3	6.7	.7	.7	.7	1.3	30.7	69.3	150
06&09	.0	.6	2.5	3.2	10.8	8.3	4.5	1.3	.0	.0	31.2	68.8	157
12&15	.0	.0	.5	10.0	12.0	7.2	1.9	.0	.0	.0	31.6	68.4	209
18&21	.0	.0	1.2	3.0	10.2	6.6	5.4	.0	.6	.6	27.7	72.3	166
TOT	0	1	7	39	82	49	21	3	2	3	207	475	682
PCT	.0	.1	1.0	5.7	12.0	7.2	3.1	.4	.3	.4	30.4	69.6	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
00&03	.9	2.0	.9	1.3	34.6	60.3	448
06&09	.3	2.0	2.4	1.6	48.3	45.5	752
12&15	.4	1.3	1.3	1.3	34.8	61.0	480
18&21	.7	2.1	1.6	1.9	40.9	52.7	670
TOT	13	44	39	37	959	1258	2350
PCT	.6	1.9	1.7	1.6	40.8	53.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.8	9.0	27.1	63.9	133
06&09	.0	4.0	8.1	30.6	61.3	124
12&15	.0	.5	11.7	21.4	66.8	196
18&21	.0	1.3	6.5	24.8	68.6	153
TOT	0	9	55	154	397	606
PCT	.0	1.5	9.1	25.4	65.5	100.0

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
85/89	.0	.0	.1	.3	.2	.1	.0	.1	9	.7
80/84	.0	.0	.0	.6	1.1	.5	.7	.5	45	3.4
75/79	.0	.0	.3	.9	3.2	7.8	8.0	6.5	349	26.7
70/74	.0	.0	.2	1.2	6.7	12.7	16.4	12.9	656	50.2
65/69	.0	.0	.2	1.1	3.3	5.0	4.7	3.1	226	17.3
60/64	.0	.0	.0	.0	.2	.1	1.0	.5	23	1.8
TOTAL	0	0	9	54	192	342	402	309	1308	100.0
PCT	.0	.0	.7	4.1	14.7	26.1	30.7	23.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.2	.2	.0	.1	.1	.1	.2	.0	.0
.7	.8	.6	.4	.2	.2	.1	.4	.0	.1
6.2	9.6	3.2	2.5	1.6	1.1	.4	1.8	.0	.3
7.1	12.2	7.4	7.9	8.6	3.7	1.2	1.4	.0	.8
.8	1.0	1.8	3.9	5.6	2.8	.4	.5	.0	.4
.0	.1	.0	.2	.8	.4	.3	*	.0	.0
14.8	23.7	13.1	14.9	16.8	8.3	2.4	4.3	.0	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	88	85	81	74	67	65	62	73.9	603
06&09	90	83	79	73	67	63	58	73.2	871
12&15	82	79	76	72	66	62	56	71.8	559
18&21	88	80	76	71	65	61	57	71.1	779
TOT	90	82	79	72	66	62	56	72.5	2812

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	8.5	19.6	25.1	24.7	22.1	77	271
06&09	.0	5.6	15.6	29.2	30.0	19.6	79	377
12&15	.0	1.7	17.0	25.2	33.7	22.4	80	294
18&21	.0	3.9	8.6	24.7	32.8	29.9	82	384
TOT	0	64	195	347	405	315	80	1326

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PERIOD: (PRIMARY) 1910-1973
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	85 88	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
14/16	.0	.0	.0	.0	.0	.1	.0	.0	.0	2	.1	.1
11/13	.0	.0	.0	.1	.1	.0	.0	.1	.1	6	.0	.4
9/10	.0	.0	.0	.1	.1	.1	.3	.2	.0	11	.0	.7
7/8	.0	.0	.0	.1	.3	.1	.9	.1	.0	22	.1	1.3
6	.0	.0	.0	.0	.1	.5	.3	.1	.0	16	.1	.9
5	.0	.0	.0	.1	.1	.6	.8	.1	.0	26	.2	1.4
4	.0	.0	.0	.1	.8	1.9	.9	.3	.0	63	.2	3.8
3	.0	.0	.0	.0	.6	2.3	.6	.1	.0	56	.4	3.1
2	.0	.0	.0	.0	2.0	5.8	1.9	.3	.0	160	.8	9.3
1	.0	.0	.0	.1	3.0	6.2	1.2	.0	.0	167	.6	9.9
0	.0	.0	.1	.8	6.5	7.5	1.4	.0	.0	260	1.2	15.2
-1	.0	.0	.0	.8	5.5	4.8	.5	.1	.0	187	.6	11.1
-2	.0	.0	.0	1.9	6.4	3.3	.2	.0	.0	188	.4	11.4
-3	.0	.0	.0	1.1	4.5	2.1	.3	.0	.0	126	.3	7.6
-4	.0	.0	.1	1.9	3.5	1.1	.1	.0	.0	107	.1	6.6
-5	.0	.0	.1	1.0	2.5	1.0	.3	.0	.0	79	.0	5.0
-6	.0	.0	.1	1.1	.8	.3	.0	.0	.0	36	.1	2.2
-7/-8	.0	.0	.2	.8	1.0	.3	.0	.0	.0	36	.0	2.3
-9/-10	.0	.1	.6	.6	.4	.1	.0	.0	.0	28	.0	1.8
-11/-13	.0	.1	.3	.2	.0	.0	.0	.0	.0	8	.0	.5
-14/-16	.0	.1	.1	.0	.0	.0	.0	.0	.0	4	.0	.3
-17/-19	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	5	24	169	609	609	153	19	1	1590	81	1509
PCT	.1	.3	1.5	10.6	38.3	38.3	9.6	1.2	.1	100.0	5.1	94.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	2.0	1.6	.0	.0	.0	3.5
3-4	.0	1.6	2.9	.0	.0	.0	4.5
5-6	.0	.2	2.1	.2	.0	.0	2.6
7	.0	.2	.7	.2	.0	.0	1.1
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.2	.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	.2	.0	.2
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
TOT PCT	.0	5.4	7.5	.6	.2	.0	13.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.5	4.0	1.5	.0	.0	.0	6.0
3-4	.2	2.8	3.5	.0	.0	.0	6.6
5-6	.0	.7	3.5	.3	.0	.0	4.5
7	.0	.5	1.6	.2	.0	.0	2.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.2	.2	.0	.0	.5
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
TOT PCT	.7	9.4	10.6	.8	.0	.0	21.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.3	.0	.0	.0	.0	1.5
1-2	.2	4.5	1.6	.0	.0	.0	6.4
3-4	.0	2.6	3.4	.0	.0	.0	6.0
5-6	.0	.6	2.1	.0	.0	.0	2.8
7	.0	.2	.4	.0	.0	.0	.6
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.2	.0	.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
TOT PCT	.5	9.2	8.1	.2	.0	.0	18.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	1.6	2.1	.0	.0	.0	3.7
3-4	.0	1.1	4.0	.0	.0	.0	5.1
5-6	.0	.8	3.3	.1	.0	.0	4.2
7	.0	.0	1.3	.4	.0	.0	1.7
8-9	.0	.0	.1	.7	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.2	.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
TOT PCT	.0	4.5	10.8	1.5	.0	.0	16.8

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY

TABLE 18 (CONT)

AREA 0007 SYDNEY
33.3S 152.1E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.5	.0	.2	.0	.0	.0	.0	.2
1-2	.2	1.6	.6	.0	.0	.0	2.4	.1	.9	.0	.0	.0	.0	.9
3-4	.0	1.1	2.6	.0	.0	.0	3.7	.0	.8	.8	.1	.0	.0	1.6
5-6	.2	.0	3.7	.3	.0	.0	4.2	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	2.0	1.5	.0	.0	3.5	.0	.0	.9	.5	.0	.0	1.4
8-9	.0	.0	.4	.7	.0	.0	1.1	.0	.0	.0	.5	.0	.0	.5
10-11	.2	.0	.2	.0	.2	.0	.6	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.2	.0	.4	.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	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.2	.0	.2	.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
TOT PCT	.9	2.9	9.6	2.7	.9	.0	17.0	.1	1.9	2.8	1.1	.0	.0	5.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.5	.0	.0	.0	.0	.5	.0	.3	.0	.0	.0	.0	.3	
1-2	.0	.4	.0	.0	.0	.0	.4	.0	.8	.0	.0	.0	.0	.8	
3-4	.0	.3	.4	.2	.0	.0	.9	.0	.3	.5	.0	.0	.0	.8	
5-6	.0	.0	.5	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.5	
7	.0	.2	.0	.2	.0	.0	.3	.0	.1	.5	.2	.0	.0	.9	
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	.1	.0	.0	.1	
12	.0	.0	.2	.0	.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	.1	.0	.1	
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	
TOT PCT	.0	1.4	1.1	.3	.0	.0	2.8	.0	2.0	1.0	.3	.1	.0	3.4	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.8	6.2	.0	.0	.0	.0	8.1	
1-2	1.2	15.7	7.4	.0	.0	.0	24.2	
3-4	.2	10.6	18.0	.2	.0	.0	29.1	
5-6	.2	2.8	16.2	.9	.0	.0	20.1	
7	.0	1.2	7.4	3.2	.0	.0	11.8	
8-9	.0	.0	.9	1.8	.0	.0	2.8	
10-11	.2	.0	.5	.5	.2	.0	1.4	
12	.0	.0	.5	.0	.0	.0	.5	
13-16	.0	.0	.5	.7	.2	.0	1.4	
17-19	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.2	.0	.2	
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	
								433
TOT PCT	3.7	36.5	51.3	7.4	1.2	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

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	8.4	14.7	6.3	4.3	.9	.9	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	208	4
6-7	.0	1.1	6.7	10.6	5.8	3.4	1.7	1.3	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	169	6
8-9	.0	.4	1.5	3.5	3.4	2.6	1.7	1.3	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	80	7
10-11	.0	.0	.7	.6	.4	.4	.6	1.1	.9	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	29	10
12-13	.0	.0	.6	.2	.2	.6	.4	.4	.9	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	18	10
>13	.0	.0	.0	.6	.0	.2	.4	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	8	10
INDET	1.3	.4	.0	1.3	.9	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	4
TOTAL	18	55	130	124	80	45	32	24	20	6	1	2	0	0	0	0	0	0	0	937	6
PCT	3.4	10.2	24.2	23.1	14.9	8.4	6.0	4.5	3.7	1.1	.2	.4	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1856-1973

AREA 0007 SYDNEY
33.3S 152.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.3	2.7	.6	.0	.0	.0	.0	4.6	1.0	5.0	4.6	.0	2.0	.0	83.4
NE	2.7	2.8	.1	.0	.0	.0	.2	5.7	.8	3.9	2.8	.0	2.5	.2	81.5
E	5.0	4.6	1.4	.0	.0	.0	.0	11.0	.9	2.5	2.0	.0	1.1	.0	83.2
SE	4.6	7.3	1.4	.0	.0	.0	.0	13.0	1.1	1.9	2.1	.0	.7	.0	81.8
S	6.8	8.8	1.2	.0	.0	.0	.0	16.2	.7	2.0	2.8	.0	1.6	.0	77.9
SW	5.0	5.7	1.0	.0	.0	.0	.0	11.7	.7	3.8	1.7	.0	.9	.0	81.9
W	4.1	2.7	1.1	.0	.0	.0	.0	7.9	.0	.0	6.0	.0	.8	.0	85.4
NW	4.9	4.3	1.7	.0	.0	.0	.0	10.9	1.1	4.5	4.7	.0	1.3	.0	78.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	3.7	.0	.0	.0	.0	3.7	.0	3.7	.0	.0	3.7	.0	88.9
TOT PCT	4.2	5.2	1.0	.0	.0	.0	*	10.2	.9	3.0	3.0	.0	1.5	*	82.2
TOT OBS:	2210														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.0	4.9	1.6	.0	.0	.0	.0	10.5	.7	.5	2.3	.0	2.8	.0	83.6
06&09	3.9	4.8	.4	.0	.0	.0	.1	9.3	.3	3.1	4.1	.0	1.7	.1	82.8
12&15	3.4	4.7	.8	.0	.0	.0	.0	8.7	1.7	5.3	2.7	.0	.8	.0	82.2
18&21	5.2	6.1	1.2	.0	.0	.0	.0	12.1	.9	2.8	3.4	.0	1.2	.0	80.2
TOT PCT	4.2	5.2	.9	.0	.0	.0	*	10.2	.9	3.0	3.2	.0	1.5	*	82.1
TOT OBS:	2329														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	5.9	6.3	1.4	.1	.0		15.1	11.9	17.2	14.8	10.1	11.9	20.2	19.3	18.4	11.7
NE	1.6	9.7	7.2	.5	*	.0		19.0	10.2	10.2	14.4	25.3	26.4	22.5	20.3	15.9	12.2
E	1.3	6.6	3.5	.4	*	.0		11.9	9.4	9.1	10.3	13.6	15.3	13.4	12.0	9.8	10.5
SE	1.2	8.2	6.9	1.7	.2	*		18.2	12.2	16.9	18.7	22.9	19.0	16.1	18.2	16.0	15.7
S	.9	5.9	6.8	3.1	.8	.1		17.4	15.2	23.8	19.4	16.8	14.1	17.9	16.1	19.0	15.5
SW	.6	2.9	2.5	.7	.3	*		7.1	12.9	10.9	10.7	4.7	3.9	2.1	5.0	8.1	12.2
W	.9	2.2	.8	.3	.0	*		4.3	8.7	4.7	5.4	1.6	3.1	2.0	3.2	4.9	9.6
NW	1.0	2.9	1.1	.3	.0	.0		5.3	9.0	6.1	4.9	4.3	4.7	4.6	4.9	4.9	9.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0	1.3	1.4	.7	1.5	1.3	1.0	3.0	2.8
TOT OBS	323	1363	1082	261	42	5	3076		11.5	160	486	455	455	239	418	536	327
TOT PCT	10.5	44.3	35.2	8.5	1.4	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.8	7.6	3.5	.2	*		15.1	11.9	15.4	11.0	19.6	15.9
NE	5.2	11.2	2.5	*	*		19.0	10.2	13.3	25.9	21.1	14.5
E	4.8	5.6	1.3	.1	*		11.9	9.4	10.0	14.5	12.5	10.1
SE	4.3	9.2	3.9	.7	.1		18.2	12.2	18.2	21.0	17.4	15.9
S	3.2	7.0	5.1	2.0	.1		17.4	15.2	20.5	15.5	16.8	17.7
SW	2.0	3.0	1.4	.6	*		7.1	12.9	10.8	4.3	4.0	9.7
W	2.1	1.6	.5	.1	*		4.3	8.7	5.2	2.4	2.8	6.7
NW	2.3	2.1	.8	.1	.0		5.3	9.0	5.2	4.5	4.8	6.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	1.4	1.1	1.1	2.9
TOT OBS	906	1456	586	118	10	3076		11.5	646	910	657	863
TOT PCT	29.5	47.3	19.1	3.8	.3		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1856-1973

AREA 0007 SYDNEY
33.3S 152.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.4	11.1	39.0	36.2	9.3	2.5	.5	12.1	100.0	646
06&09	1.1	8.4	46.6	34.7	7.8	1.3	.1	11.3	100.0	910
12&15	1.1	6.2	43.8	38.1	9.7	1.1	.0	12.0	100.0	657
18&21	2.9	9.6	46.2	32.7	7.6	.8	.1	10.8	100.0	863
TOT	51	272	1363	1082	261	42	5	11.5		3076
PCT	1.7	8.8	44.3	35.2	8.5	1.4	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	9.8	2.0	4.9	1.4		2.9
NE	8.6	2.8	4.1	2.0		3.1
E	3.3	2.4	3.2	3.5		4.7
SE	3.8	3.4	7.1	3.7		5.0
S	4.6	4.7	6.9	2.6		4.5
SW	1.5	1.6	2.3	.8		4.6
W	1.7	.3	.5	.1		2.5
NW	1.8	.9	1.7	.2		3.4
VAR	.0	.0	.0	.0		.0
CALM	1.0	.0	.7	.0		2.9
TOT OBS	254	127	220	101	702	3.9
TOT PCT	36.2	18.1	31.3	14.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.5	1.9	1.0	.0	.0	.0	.4	14.2	
NE	*	.0	*	.7	1.4	1.2	.5	.2	.1	.2	13.2	
E	.1	.0	.1	1.2	1.8	1.4	.5	.2	.0	.0	7.2	
SE	.0	.0	.1	2.2	4.0	1.7	.6	.1	.0	.0	9.3	
S	.0	.0	.5	1.4	3.3	2.2	.4	.2	.0	.0	10.9	
SW	.0	.0	.5	.4	1.0	.5	.1	.1	.0	.0	3.7	
W	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	2.2	
NW	.0	.0	.0	.2	.1	.5	.0	.0	.0	*	3.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0	1.1	
TOT OBS	1	0	9	46	98	61	15	6	1	5	460	702
TOT PCT	.1	.0	1.3	6.6	14.0	8.7	2.1	.9	.1	.7	65.5	100.0

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 >50YD	* OR >0
* OR >6500	.7	.8	.8	.8	.8	.8	.8	.8
* OR >5000	1.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7
* OR >3500	3.2	3.8	3.8	3.8	3.8	3.8	3.8	3.8
* OR >2000	8.9	11.7	12.1	12.1	12.1	12.1	12.1	12.1
* OR >1000	21.1	25.6	26.3	26.3	26.3	26.3	26.3	26.3
* OR >600	25.4	32.0	32.7	32.8	32.8	32.8	32.8	32.8
* OR >300	26.1	32.8	33.9	34.1	34.1	34.1	34.1	34.1
* OR >150	26.1	32.8	33.9	34.1	34.1	34.1	34.1	34.1
* OR > 0	26.1	33.0	34.1	34.2	34.2	34.2	34.2	34.2
TOTAL	185	234	242	243	243	243	243	243

TOTAL NUMBER OF OBS: 710

PCT FREQ NH <5/8: 65.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.6	19.7	14.3	10.4	7.2	7.5	7.6	7.7	10.9	.1	804

MARCH

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1856-1973

AREA 0007 SYDNEY
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
<1/2	NO PCP	*	.0	.0	.0	.0	.0	*	.0	.0	.0	.1	
	TOT %	*	.0	.0	*	.0	.0	*	.0	.0	.0	.1	
	PCP	.1	*	.1	.1	.2	*	.0	*	.0	.0	.6	
1/2<1	NO PCP	.5	.1	.1	.1	.1	.0	.2	.3	.0	.0	1.4	
	TOT %	.5	.2	.1	.2	.4	*	.2	.4	.0	.0	2.0	
	PCP	*	*	.0	.0	*	.0	.0	.0	.0	.0	.1	
1<2	NO PCP	*	.1	.1	.1	.1	.0	.0	.0	.0	.0	.4	
	TOT %	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.5	
	PCP	.1	*	*	.1	.1	.1	*	.0	.0	*	.5	
2<5	NO PCP	.2	.2	.0	.2	.2	.2	*	.1	.0	.0	1.0	
	TOT %	.3	.2	*	.3	.3	.2	.1	.1	.0	*	1.6	
	PCP	.5	.8	.9	1.8	2.2	.5	.2	.5	.0	.0	7.4	
5<10	NO PCP	5.0	8.0	4.5	7.5	7.3	2.6	1.5	1.5	.0	.3	38.2	
	TOT %	5.5	8.8	5.5	9.3	9.5	3.1	1.7	1.9	.0	.3	45.6	
	PCP	.0	.1	.3	.3	.5	.2	*	.1	.0	.0	1.5	
10+	NO PCP	8.9	9.3	6.1	7.8	7.8	3.0	2.2	2.8	.0	.9	48.6	
	TOT %	8.9	9.5	6.4	8.1	8.2	3.2	2.2	2.9	.0	.9	50.2	
	TOT OBS												2208
	TOT PCT	15.3	18.8	12.1	18.0	18.6	6.6	4.2	5.3	.0	1.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
<1/2	4-10	.0	.0	.0	*	.0	.0	*	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	.0	*	.0	.0	*	.0	.0	.0	.1	
	0-3	*	.1	.0	.0	.0	.0	*	.1	.0	.0	.2	
1/2<1	4-10	*	*	*	.1	*	*	.1	*	.0		.4	
	11-21	.1	.0	.1	.1	.1	.0	*	.2	.0		.6	
	22+	.3	*	*	.0	.2	.0	.0	.0	.0		.6	
	TOT %	.5	.1	.1	.2	.3	*	.1	.4	.0	.0	1.8	
	0-3	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	4-10	.0	*	.1	*	.0	.0	.0	.0	.0		.1	
	11-21	*	*	.0	.0	.1	*	.0	.0	.0		.2	
	22+	.0	.0	.0	*	.1	.0	.0	.0	.0		.1	
	TOT %	.1	.1	.1	.1	.2	*	.0	.0	.0	.0	.5	
	0-3	.0	.1	*	*	*	*	.0	*	.0	*	.3	
2<5	4-10	.2	.1	.1	.1	.1	.1	*	.1	.0		.8	
	11-21	.1	.1	.0	.2	.2	.1	*	*	.0		.7	
	22+	.0	*	.0	*	*	.1	.0	.0	.0		.2	
	TOT %	.3	.3	.1	.4	.4	.3	.1	.1	.0	*	1.9	
	0-3	.3	.8	.5	.7	.6	.3	.4	.1	.0	.4	4.3	
5<10	4-10	2.3	4.6	2.7	3.7	2.8	1.2	.8	.9	.0		19.0	
	11-21	2.1	2.6	1.5	3.0	3.3	1.1	.3	.5	.0		14.4	
	22+	.4	.1	.2	1.0	1.9	.2	.1	.2	.0		4.2	
	TOT %	5.1	8.1	4.9	8.5	8.6	2.9	1.6	1.8	.0	.4	41.9	
	0-3	.9	.7	.8	.6	.3	.3	.6	.7	.0	1.0	6.0	
10+	4-10	3.4	4.8	3.9	4.2	3.0	1.5	1.1	1.7	.0		23.7	
	11-21	4.0	4.4	2.2	3.6	3.4	1.0	.4	.6	.0		19.6	
	22+	.8	.3	.1	.9	1.5	.5	.2	.1	.0		4.5	
	TOT %	9.1	10.3	7.1	9.2	8.2	3.3	2.4	3.1	.0	1.0	53.7	
	TOT OBS												2481
	TOT PCT	15.1	19.0	12.3	18.4	17.7	6.5	4.2	5.3	.0	1.5	100.0	

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1856-1973

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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
00&03	.0	.0	1.2	5.3	12.9	9.4	1.2	.6	.6	.0	31.0	69.0	171
06&09	.0	.0	.6	8.6	10.9	9.8	1.1	.6	.0	.6	32.2	67.8	174
12&15	.4	.0	.9	5.2	12.2	5.7	2.6	1.3	.0	.9	29.1	70.9	230
18&21	.0	.0	2.0	5.0	15.8	7.4	2.5	.5	.0	1.0	34.2	65.8	202
TOT	1	0	9	46	101	61	15	6	1	5	245	532	777
PCT	.1	.0	1.2	5.9	13.0	7.9	1.9	.8	.1	.6	31.5	68.5	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
00&03	.2	1.7	1.1	2.8	38.9	55.3	463
06&09	.0	2.3	.5	2.3	48.4	46.6	794
12&15	.2	1.9	.2	1.2	36.9	59.7	583
18&21	.1	2.0	.4	1.2	44.3	50.1	763
TOT	3	52	13	47	1132	1356	2603
PCT	.1	2.0	.5	1.8	43.5	52.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.3	10.1	25.3	64.6	158
06&09	.0	.6	11.0	25.3	63.6	154
12&15	.5	1.4	6.8	23.3	69.9	219
18&21	.0	2.8	10.1	29.1	60.9	179
TOT	1	11	66	182	462	710
PCT	.1	1.5	9.3	25.6	65.1	100.0

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
85/89	.0	.0	.0	.1	.2	.1	.1	.0	5	.4
80/84	.0	.0	.0	.2	.9	.5	.3	.2	27	2.1
75/79	.0	.2	.1	1.0	2.7	7.2	5.9	2.2	252	19.2
70/74	.0	.0	.2	2.7	7.6	14.9	17.2	8.8	673	51.3
65/69	.0	.1	.1	2.2	4.3	7.8	6.3	3.3	315	24.0
60/64	.0	.0	.0	.1	.5	.5	.8	.9	38	2.9
55/59	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
TOTAL	0	3	5	83	211	406	401	202	1311	100.0
PCT	.0	.2	.4	6.3	16.1	31.0	30.6	15.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.1	.0	.1	.1	*	.0	.0	.0	.0
.2	.5	.2	.4	.2	.2	.1	.2	.0	.1
5.6	5.7	2.0	1.9	1.0	.7	.4	1.4	.0	.4
8.0	10.2	7.4	8.9	8.6	3.2	1.5	2.7	.0	.8
.5	1.2	2.3	6.6	9.2	1.7	1.0	.9	.0	.6
.1	.0	.1	.4	.8	.8	.4	.4	.0	.0
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
14.5	17.7	12.0	18.3	19.9	6.6	3.5	5.7	.0	1.8

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	89	84	79	73	65	62	60	72.5	635
06&09	89	83	78	72	66	62	57	72.2	911
12&15	81	78	75	71	66	61	58	71.2	683
18&21	86	78	75	70	63	59	55	70.0	907
TOT	89	81	77	72	65	61	55	71.4	3136

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	10.2	25.0	28.8	23.1	12.9	75	264
06&09	.0	9.1	15.8	34.2	28.6	12.3	76	374
12&15	.0	4.4	13.5	31.7	33.5	16.9	79	319
18&21	.0	4.2	12.4	28.3	35.7	19.3	80	378
TOT	0	91	215	412	410	207	78	1335

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PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1856-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) 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	85 88	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.1	.0	.1	.0	3	.0	.2
9/10	.0	.0	.0	.0	.2	.2	.1	.0	.0	8	.0	.4
7/8	.0	.0	.0	.1	.1	.2	.2	.1	.0	11	.0	.6
6	.0	.0	.0	.0	.0	.4	.4	.0	.1	16	.1	.8
5	.0	.0	.0	.0	.2	.7	.5	.1	.0	28	.1	1.4
4	.0	.0	.0	.2	.6	1.7	.8	.1	.0	65	.1	3.3
3	.0	.0	.0	.1	.6	1.4	.3	.0	.0	45	.3	2.1
2	.0	.0	.0	.1	1.6	4.0	1.3	.1	.0	134	.3	6.8
1	.0	.0	.0	.1	1.8	4.0	.5	.0	.0	122	.4	6.1
0	.0	.0	.0	1.0	6.2	6.5	1.1	.1	.0	282	.5	14.3
-1	.0	.0	.0	.9	5.1	5.1	.4	.0	.0	219	.5	11.1
-2	.0	.0	.2	2.0	6.5	3.9	.5	.0	.0	249	.4	12.7
-3	.0	.0	.2	3.0	4.1	2.3	.2	.0	.0	183	.3	9.3
-4	.0	.0	.6	2.7	4.9	1.4	.1	.0	.0	183	.4	9.3
-5	.0	.0	.7	2.8	3.0	.8	.1	.0	.0	138	.2	7.1
-6	.0	.0	.8	1.3	1.4	.4	.0	.0	.0	75	.1	3.9
-7/-8	.0	.2	.6	1.9	1.3	.2	.0	.0	.0	78	.1	4.0
-9/-10	.0	.4	.5	.9	.5	.1	.0	.0	.0	45	.0	2.4
-11/-13	.1	.1	.2	.1	.1	.1	.0	.0	.0	10	.0	.5
-14/-16	.0	.0	.0	.1	.1	.0	.0	.0	.0	2	.0	.1
TOTAL	1	13	71	327	722	632	121	8	1	1896	71	1825
PCT	.1	.7	3.7	17.2	38.1	33.3	6.4	.4	.1	100.0	3.7	96.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.5	.0	.0	.0	.0	1.2
1-2	.0	2.6	1.4	.0	.0	.0	4.0
3-4	.0	1.1	3.2	.0	.0	.0	4.4
5-6	.0	.3	3.6	.7	.0	.0	4.7
7	.0	.0	.5	.6	.0	.0	1.1
8-9	.0	.0	.1	.5	.0	.0	.7
10-11	.0	.2	.0	.3	.0	.0	.5
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
TOT PCT	.7	4.8	9.1	2.2	.0	.0	16.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4
1-2	.0	3.5	1.8	.0	.0	.0	5.3
3-4	.0	2.9	4.8	.0	.0	.0	7.7
5-6	.0	.2	1.1	.2	.0	.0	1.6
7	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	*	.2	.0	.0	.2
10-11	.0	.0	.0	.2	.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
TOT PCT	.2	6.9	8.6	.7	.0	.0	16.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	.0	.0	.0	.0	1.2
1-2	.0	3.5	.3	.0	.0	.0	3.8
3-4	.2	1.2	2.9	.2	.0	.0	4.5
5-6	.0	.5	1.4	.0	.0	.0	2.0
7	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.1	.1	.0	.0	.3
13-16	.0	.0	.0	.1	.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
TOT PCT	.6	6.1	5.7	.6	.0	.0	13.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4
1-2	.0	3.4	.8	.0	.0	.0	4.3
3-4	.0	2.7	3.2	.2	.0	.0	6.2
5-6	.0	.2	2.5	.5	.0	.0	3.3
7	.0	.2	1.2	1.2	.2	.0	2.8
8-9	.0	.2	.2	.5	.0	.0	.9
10-11	.0	.0	.2	*	.0	.0	.3
12	.0	.0	*	*	.2	.0	.3
13-16	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.2	.0	.2
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
TOT PCT	.2	7.1	8.4	3.0	.6	.0	19.3

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.9	.0	.0	.0	.0	1.1	.2	.4	.0	.0	.0	.0	.6
1-2	.0	2.2	1.0	.0	.0	.0	3.2	.0	.7	.4	.0	.0	.0	1.1
3-4	.0	1.9	2.7	.0	.0	.0	4.6	.0	.3	1.0	.2	.0	.0	1.5
5-6	.2	.0	2.4	1.5	.0	.0	4.1	.0	.2	1.1	.3	.0	.0	1.6
7	.0	.0	1.9	.3	.3	.0	2.6	.0	.0	.2	*	*	.0	.3
8-9	.0	.0	.2	1.1	.0	.4	1.7	.0	.0	.0	.0	.2	.0	.2
10-11	.0	.0	.1	.3	.0	.0	.5	.0	.0	.0	.0	.2	.0	.2
12	.0	.0	.2	.4	.6	.0	1.2	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.2	.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
TOT PCT	.4	5.1	8.5	3.9	.9	.4	19.3	.2	1.7	2.8	.7	.6	.0	6.1

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	.2	.0	.0	.0	.0	.4	.3	.4	.0	.0	.0	.0	.7	
1-2	.2	.7	.2	.0	.0	.0	1.1	.2	1.5	.0	.0	.0	.0	1.7	
3-4	.0	.1	.5	.0	.0	.0	.7	.0	.7	.7	.0	.0	.0	1.4	
5-6	.0	.0	.1	.0	.0	.0	.1	.0	*	.8	.0	.0	.0	.8	
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	.2	.0	.0	.2	
10-11	.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	*	
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	
TOT PCT	.4	1.1	.9	.0	.0	.0	2.4	.5	2.6	1.5	.3	.0	.0	5.0	98.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.7	3.8	.0	.0	.0	.0	8.5	
1-2	.4	18.2	5.9	.0	.0	.0	24.5	
3-4	.2	11.1	19.0	.6	.0	.0	30.8	
5-6	.2	1.6	13.0	3.4	.0	.0	18.2	
7	.0	.2	5.5	2.2	.6	.0	8.5	
8-9	.0	.2	.8	2.6	.2	.4	4.2	
10-11	.0	.2	.4	1.2	.2	.0	2.0	
12	.0	.0	.6	.8	.8	.0	2.2	
13-16	.0	.0	.0	.6	.2	.0	.8	
17-19	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.2	.0	.2	
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	
TOT PCT	5.5	35.2	45.3	11.5	2.2	.4	100.0	506

PERIOD: (OVER-ALL) 1949-1973

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	2.1	8.8	12.6	7.3	2.0	.9	.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	229	4
6-7	.0	1.1	6.2	9.3	6.1	2.6	1.4	.6	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	189	6
8-9	.0	.2	2.1	4.2	5.6	3.2	2.9	.5	1.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	133	7
10-11	.0	.0	.2	1.4	1.4	.9	1.7	.3	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	9
12-13	.0	.0	.5	1.4	.6	.5	.3	.3	.3	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	27	8
>13	.0	.0	.0	.3	.6	.0	.2	.2	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	12	11
INDET	.6	.5	.9	1.1	1.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	4
TOTAL	18	69	148	164	115	54	47	15	19	3	6	1	0	0	0	0	0	0	0	659	6
PCT	2.7	10.5	22.5	24.9	17.5	8.2	7.1	2.3	2.9	.5	.9	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1857-1972

AREA 0007 SYDNEY
33.3S 152.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.5	2.7	1.9	.0	.0	.0	.0	7.0	.0	4.1	1.2	.0	3.2	.0		85.0
NE	5.6	4.9	2.2	.0	.0	.0	.0	12.8	.4	2.9	2.5	.0	2.8	.0		80.4
E	4.1	8.4	1.9	.0	.0	.0	.0	14.4	.8	2.2	2.6	.0	3.2	.0		77.2
SE	5.3	8.0	1.2	.0	.0	.0	.0	14.4	3.3	3.3	2.8	.0	1.3	.0		76.2
S	4.1	10.3	1.4	.0	.0	.0	.0	15.8	2.3	3.3	1.9	.0	1.6	.0		75.6
SW	4.6	6.5	2.3	.0	.0	.0	.0	13.1	2.6	2.7	1.3	.0	.2	.3		80.8
W	3.0	3.3	1.3	.0	.0	.0	.0	7.6	.8	2.1	1.2	.0	5.3	.0		83.3
NW	2.4	.8	.0	.0	.0	.0	.0	3.1	.5	1.8	2.8	.0	5.6	.0		86.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	1.9	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	1.9	.0		96.2
TOT PCT	4.0	6.1	1.5	.0	.0	.0	.0	11.5	1.6	2.8	2.0	.0	2.6	*		80.3
TOT OBS:	2190															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.6	7.5	1.6	.0	.0	.0	.0	10.5	2.6	.2	.7	.0	4.2	.2		81.5
06&09	4.0	6.2	1.7	.0	.0	.0	.0	11.9	.6	2.3	2.3	.0	2.6	.0		81.3
12&15	5.7	4.9	1.4	.0	.0	.0	.0	12.0	2.2	5.7	2.0	.0	1.2	.0		77.9
18&21	3.9	6.7	1.2	.0	.0	.0	.0	11.8	1.2	3.3	3.1	.0	2.1	.0		79.4
TOT PCT	3.9	6.3	1.5	.0	.0	.0	.0	11.6	1.5	2.9	2.2	.0	2.5	*		80.0
TOT OBS:	2285															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.5	5.3	4.0	.6	.1	.0		11.5	10.5	12.2	11.0	8.5	12.0	13.3	14.8	12.0	9.5
NE	1.3	5.7	3.6	.7	.1	.0		11.4	10.3	7.7	8.1	16.7	17.4	11.7	11.9	8.7	5.9
E	1.1	5.1	2.1	.6	.2	.0		9.2	10.2	8.0	6.6	14.6	9.3	10.2	10.5	7.5	6.9
SE	1.4	6.3	5.7	1.7	.3	.0		15.3	12.3	19.3	12.3	16.8	19.0	21.4	13.5	13.7	11.7
S	2.2	5.5	6.5	2.8	.9	.1		18.0	14.2	17.5	21.5	20.2	16.5	16.7	16.3	17.7	16.3
SW	1.7	4.6	4.0	2.1	.7	.1		13.2	13.7	16.8	14.9	11.5	9.0	10.6	11.7	15.4	17.1
W	1.6	4.4	3.5	1.0	.2	.0		10.5	11.2	10.5	13.6	3.7	7.1	5.2	10.4	14.6	17.0
NW	1.5	3.9	2.4	.2	*	.0		8.1	9.1	6.7	8.7	6.3	7.0	6.5	8.4	8.1	12.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6							2.6	.0	1.3	3.2	1.7	2.7	4.5	2.6	2.3	3.0
TOT OBS	438	1184	929	282	73	4	2910		11.5	150	470	404	484	201	387	479	335
TOT PCT	15.1	40.7	31.9	9.7	2.5	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.8	5.8	1.7	.3	*		11.5	10.5	11.3	10.4	14.3	10.9
NE	3.9	5.5	1.7	.3	.0		11.4	10.3	8.0	17.1	11.8	7.5
E	3.4	4.3	1.2	.3	*		9.2	10.2	7.0	11.7	10.4	7.2
SE	4.0	7.1	3.6	.5	.1		15.3	12.3	14.0	18.0	16.2	12.9
S	4.4	7.3	4.3	1.5	.5		18.0	14.2	20.6	18.2	16.4	17.2
SW	3.9	4.5	3.4	1.2	.2		13.2	13.7	15.4	10.1	11.3	16.1
W	3.9	3.9	2.3	.4	.1		10.5	11.2	12.9	5.6	8.6	15.6
NW	3.5	3.3	1.3	*	*		8.1	9.1	8.2	6.7	7.7	10.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.6						2.6	.0	2.7	2.3	3.2	2.6
TOT OBS	971	1215	564	132	28	2910		11.5	620	888	588	814
TOT PCT	33.4	41.8	19.4	4.5	1.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1857-1972

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.7	14.2	39.8	29.5	10.5	2.9	.3	11.6	100.0	620
06&09	2.3	12.6	42.2	31.0	9.5	2.4	.1	11.3	100.0	888
12&15	3.2	7.7	40.3	35.5	10.5	2.7	.0	12.2	100.0	588
18&21	2.6	14.3	39.9	32.2	8.7	2.2	.1	11.2	100.0	814
TOT	77	361	1184	929	282	73	4	11.5		2910
PCT	2.6	12.4	40.7	31.9	9.7	2.5	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.7	1.6	2.2	1.3		3.1
NE	5.6	1.9	2.0	.9		2.8
E	4.3	2.1	2.7	2.0		4.0
SE	4.1	3.9	5.0	2.8		4.5
S	4.1	3.8	6.1	3.0		4.7
SW	5.9	3.1	3.9	1.5		3.6
W	5.7	.7	2.2	.9		3.0
NW	4.9	1.3	1.4	.6		2.4
VAR	.0	.0	.0	.0		.0
CALM	2.1	.0	.2	.7		2.5
TOT OBS	260	113	158	84	615	3.6
TOT PCT	42.3	18.4	25.7	13.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.1	1.2	.3	.5	.0	.0	.0	8.5	
NE	.0	.0	.0	.2	.9	.7	.5	.0	.0	.0	8.1	
E	.0	.2	.0	.6	2.0	.8	.3	.0	.0	.0	7.4	
SE	.2	.0	.0	1.6	2.2	2.0	.7	.0	.0	.2	8.9	
S	.0	.0	.0	2.3	3.0	1.8	.2	.1	.1	.0	9.4	
SW	.0	.0	.3	1.8	1.3	.5	.4	.1	*	.0	10.0	
W	.0	.0	.0	.7	.8	.9	.4	.0	.0	.0	6.6	
NW	.0	.0	.0	.5	.7	.1	*	.0	.0	.0	6.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	2.3	
TOT OBS	1	1	2	48	75	47	19	1	1	1	419	615
TOT PCT	.2	.2	.3	7.8	12.2	7.6	3.1	.2	.2	.2	68.1	100.0

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 >50YD	* OR >0
* OR >6500	.2	.3	.3	.3	.3	.3	.3	.3
* OR >5000	.3	.5	.5	.5	.5	.5	.5	.5
* OR >3500	2.9	3.5	3.5	3.5	3.5	3.5	3.5	3.5
* OR >2000	7.6	11.3	11.3	11.3	11.3	11.3	11.3	11.3
* OR >1000	16.7	23.0	23.0	23.0	23.0	23.0	23.0	23.0
* OR >600	20.4	29.4	30.4	30.7	30.7	30.7	30.7	30.7
* OR >300	20.7	29.7	30.7	31.0	31.0	31.0	31.0	31.0
* OR >150	20.7	29.9	30.9	31.2	31.2	31.2	31.2	31.2
* OR > 0	20.7	29.9	31.0	31.4	31.4	31.4	31.4	31.4
TOTAL	129	186	193	195	195	195	195	195

TOTAL NUMBER OF OBS: 622

PCT FREQ NH <5/8: 68.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
18.2	16.8	13.9	10.7	8.8	5.4	9.5	5.5	11.1	.1	704

APRIL

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1857-1972

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
1/2<1	PCP	.0	*	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	NO PCP	*	.1	.0	*	*	.1	.0	.1	.0	.0	.5	
	TOT %	*	.1	.0	*	.2	.1	.0	.1	.0	.0	.7	
1<2	PCP	.0	*	*	*	*	*	.0	.0	.0	.0	.2	
	NO PCP	.0	*	.0	*	*	.0	.1	.2	.0	.0	.4	
	TOT %	.0	.1	*	.1	.1	*	.1	.2	.0	.0	.5	
2<5	PCP	.0	.0	*	.3	.1	.1	.0	*	.0	.0	.5	
	NO PCP	.1	.1	.0	.2	.4	.1	.2	.1	.0	.1	1.1	
	TOT %	.1	.1	*	.5	.4	.2	.2	.2	.0	.1	1.7	
5<10	PCP	.7	1.0	1.3	1.6	1.9	1.2	.5	.2	.0	*	8.4	
	NO PCP	4.2	4.5	4.9	6.6	6.6	5.3	4.1	3.5	.0	1.0	40.7	
	TOT %	4.9	5.5	6.2	8.2	8.5	6.6	4.6	3.7	.0	1.1	49.2	
10+	PCP	.1	.2	*	.3	.7	.5	.3	*	.0	.0	2.1	
	NO PCP	5.9	4.2	3.4	6.3	8.1	6.6	5.3	4.5	.0	1.2	45.7	
	TOT %	5.9	4.5	3.4	6.6	8.8	7.2	5.6	4.5	.0	1.2	47.9	
	TOT OBS												2187
	TOT PCT	11.0	10.2	9.7	15.4	18.1	14.1	10.5	8.7	.0	2.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	*	.0	.0	.0	.0		*	
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	*	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
	4-10	.0	.1	.0	.1	.0	*	.0	.1	.0		.3	
	11-21	.0	*	.0	.0	.1	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	*	.0	.0	.0	.0		*	
	TOT %	*	.1	.0	.1	.2	.1	.0	.1	.0	.0	.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
	4-10	*	*	.0	*	.0	.0	.0	.1	.0		.2	
	11-21	*	.1	.0	*	*	*	.0	.0	.0		.3	
	22+	.0	*	*	.1	.1	.0	*	.0	.0		.3	
	TOT %	.1	.1	*	.1	.2	*	.1	.1	.0	.0	.8	
2<5	0-3	.0	.0	.0	.1	.1	.1	*	.1	.0	.1	.4	
	4-10	*	.0	*	.2	.1	.0	.1	*	.0		.5	
	11-21	*	.1	*	.1	.1	.0	*	.1	.0		.4	
	22+	.0	*	*	*	.2	.1	.0	.0	.0		.3	
	TOT %	.1	.1	.1	.5	.5	.2	.2	.2	.0	.1	1.9	
5<10	0-3	.5	.7	.6	.6	1.0	.7	.7	.7	.0	1.0	6.5	
	4-10	2.6	2.1	3.3	3.3	2.4	1.9	1.9	1.4	.0		19.0	
	11-21	1.4	1.9	1.2	2.7	2.8	2.1	1.3	1.3	.0		14.8	
	22+	.2	.5	.6	1.0	1.8	1.4	.4	.1	.0		5.9	
	TOT %	4.7	5.2	5.8	7.6	8.1	6.2	4.3	3.5	.0	1.0	46.2	
10+	0-3	1.0	.7	.6	.7	1.3	.9	.9	.9	.0	1.5	8.6	
	4-10	2.5	2.7	2.2	2.8	2.6	2.8	2.2	2.2	.0		20.0	
	11-21	2.3	1.4	.8	3.1	3.6	2.1	2.2	1.4	.0		16.8	
	22+	.4	.1	.1	.5	1.6	1.4	.7	.2	.0		4.9	
	TOT %	6.2	4.9	3.7	7.1	9.0	7.3	6.0	4.6	.0	1.5	50.3	
	TOT OBS												2368
	TOT PCT	11.0	10.5	9.6	15.4	18.1	13.8	10.6	8.5	.0	2.5	100.0	

PERIOD: (PRIMARY) 1906-1972
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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
00&03	.0	.0	.0	8.6	16.7	9.9	3.7	.6	.0	.0	39.5	60.5	162
06&09	.0	.8	.0	7.1	7.1	4.0	5.6	.0	.8	.0	25.4	74.6	126
12&15	.5	.0	.9	7.4	9.3	5.6	1.4	.0	.0	.5	25.6	74.4	215
18&21	.0	.0	.0	5.1	10.8	9.1	1.7	.0	.0	.0	26.7	73.3	176
TOT	1	1	2	48	75	49	19	1	1	1	198	481	679
PCT	.1	.1	.3	7.1	11.0	7.2	2.8	.1	.1	.1	29.2	70.8	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
00&03	.0	.9	1.1	2.0	37.0	59.0	446
06&09	.1	.9	.9	1.6	56.3	40.2	772
12&15	.0	.2	.0	1.9	42.5	55.4	522
18&21	.4	1.2	1.0	1.8	47.5	48.0	723
TOT	4	21	19	44	1166	1209	2463
PCT	.2	.9	.8	1.8	47.3	49.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	11.5	31.8	56.7	157
06&09	.0	.9	9.2	19.3	71.6	109
12&15	.5	1.5	9.7	17.9	72.3	195
18&21	.0	.0	7.5	23.0	69.6	161
TOT	1	4	59	143	420	622
PCT	.2	.6	9.5	23.0	67.5	100.0

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
80/84	.1	.0	.1	.2	.1	.0	.0	.0	8	.6
75/79	.0	.0	.1	1.0	.8	1.5	.7	.4	62	4.5
70/74	.0	.1	.5	2.1	7.3	9.6	8.3	3.8	438	31.6
65/69	.0	.1	.9	4.9	9.0	13.1	10.3	4.9	592	42.7
60/64	.0	.0	.4	1.7	3.5	3.6	5.3	2.5	237	17.1
55/59	.0	.0	.0	.1	.4	.9	1.3	.4	42	3.0
50/54	.0	.0	.0	.1	.0	.1	.1	.1	6	.4
TOTAL	1	2	29	134	294	398	360	167	1385	100.0
PCT	.1	.1	2.1	9.7	21.2	28.7	26.0	12.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.1	.0	.0	.1	.0	.1	.1	.0	.0
1.0	1.0	.4	.1	.3	.5	.3	.7	.0	.1
6.0	5.4	4.8	4.0	4.0	2.1	1.6	3.2	.0	.5
2.7	2.9	4.9	8.9	8.9	5.7	4.4	2.6	.0	1.7
.5	.2	1.0	2.6	3.7	4.4	2.8	1.2	.0	.6
.1	.1	.0	*	.6	1.2	.4	.4	.0	.3
.0	.0	.0	.0	.1	.1	.1	.1	.0	.0
10.5	9.7	11.0	15.6	17.7	14.1	9.8	8.4	.0	3.2

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	83	79	76	70	63	60	57	69.8	628
06&09	83	79	75	69	61	57	50	68.8	906
12&15	85	75	74	68	62	57	55	68.1	601
18&21	79	75	73	67	59	54	50	66.7	835
TOT	85	78	75	68	61	57	50	68.3	2970

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	16.2	26.8	26.4	19.0	11.6	73	284
06&09	.2	14.1	19.4	28.4	26.7	11.2	74	412
12&15	.0	9.1	21.6	32.0	28.5	8.8	75	319
18&21	.0	8.6	18.3	26.7	29.4	17.0	77	405
TOT	1	168	299	402	374	176	75	1420

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.0	.2	.3	9	.0	.5
7/8	.0	.0	.0	.0	.1	.1	.1	.3	10	.0	.6
6	.0	.0	.0	.1	.0	.2	.2	.2	12	.0	.7
5	.0	.0	.0	.0	.1	.5	.5	.2	21	.0	1.2
4	.0	.0	.0	.0	.1	.6	1.0	.2	34	.1	1.9
3	.0	.0	.0	.0	.3	.5	1.1	.2	38	.1	2.1
2	.0	.0	.0	.3	.9	1.6	1.6	.1	80	.1	4.4
1	.0	.0	.0	.2	1.1	2.1	2.8	.1	111	.2	6.1
0	.0	.0	.1	.6	2.2	6.5	2.5	.0	208	.2	11.6
-1	.0	.0	.0	1.0	3.1	5.5	1.3	.1	193	.6	10.3
-2	.0	.0	.1	1.4	3.4	5.7	1.0	.1	203	.3	11.2
-3	.0	.0	.3	1.5	3.7	3.3	.3	.0	161	.3	8.8
-4	.0	.0	.3	2.1	4.9	3.6	.6	.0	203	.2	11.3
-5	.0	.0	.2	1.8	4.0	1.8	.2	.0	141	.0	8.0
-6	.0	.1	.1	1.7	2.8	.9	.2	.0	101	.2	5.5
-7/-8	.0	.2	.6	2.4	3.4	1.5	.0	.0	144	.1	8.1
-9/-10	.0	.2	.4	1.4	1.3	.3	.0	.0	63	.1	3.5
-11/-13	.1	.0	.4	.6	.2	.0	.0	.0	22	.1	1.2
-14/-16	.0	.1	.1	.1	.1	.0	.0	.0	6	.0	.3
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	11	45	267	559	611	238	25	1761	45	1716
PCT	.1	.6	2.6	15.2	31.7	34.7	13.5	1.6	100.0	2.6	97.4

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.2	.0	.0	.0	.0	1.6
1-2	.5	1.3	.6	.0	.0	.0	2.4
3-4	.2	1.1	1.8	.0	.0	.0	3.0
5-6	.0	.2	2.3	.2	.0	.0	2.8
7	.0	.0	.5	.4	.0	.0	.9
8-9	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.2	.2	.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
TOT PCT	1.1	3.8	5.4	1.1	.0	.0	11.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.0	.0	.0	.0	.0	1.1
1-2	.1	3.6	.5	.0	.0	.0	4.2
3-4	.1	1.5	.5	.0	.0	.0	2.0
5-6	.0	.0	1.6	.2	.0	.0	1.8
7	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.5	.2	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.2	6.0	2.6	.8	.2	.0	9.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.6	.0	.0	.0	.0	2.5
1-2	.2	1.9	.2	.0	.0	.0	2.3
3-4	.0	.9	1.3	.0	.0	.0	2.2
5-6	.0	.2	.7	.0	.0	.0	.9
7	.0	.2	.2	.8	.2	.0	1.5
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.2	.5	.0	.7
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
TOT PCT	1.0	4.9	2.7	1.1	.7	.0	10.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	.0	.0	.0	.0	1.1
1-2	.2	3.6	.6	.0	.0	.0	4.4
3-4	.2	2.2	2.5	.0	.0	.0	5.0
5-6	.0	1.0	3.7	.5	.0	.0	5.2
7	.0	.0	.7	.2	.0	.0	.9
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.8	7.6	7.6	.7	.0	.0	16.7

APRIL

PERIOD: (OVER-ALL) 1963-1972

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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.4	.0	.0	.0	.0	1.0	.6	1.0	.2	.0	.0	.0	1.8
1-2	.2	2.0	1.2	.0	.0	.0	3.5	.0	2.4	.1	.0	.0	.0	2.5
3-4	.2	1.9	2.6	.4	.0	.0	5.2	.0	1.8	2.5	.3	.0	.0	4.5
5-6	.0	.5	2.2	1.5	.0	.0	4.2	.0	.1	1.1	.8	.9	.0	2.9
7	.0	.0	.7	.8	.4	.0	1.9	.0	.0	.2	.8	.1	.0	1.1
8-9	.0	.0	.2	1.1	.0	.0	1.2	.0	.0	.1	.6	.3	.0	.9
10-11	.0	.0	.0	.5	.0	.0	.5	.0	.0	.2	.2	.2	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.3
13-16	.0	.0	.0	.5	.4	.0	.8	.0	.0	.2	.2	.6	.0	1.1
17-19	.0	.2	.0	.4	.4	.0	1.1	.0	.0	.0	.1	.3	.0	.4
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.1	.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
TOT PCT	1.1	5.1	6.9	5.2	1.3	.0	19.5	.6	5.2	4.9	3.0	2.6	.0	16.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	2.2	.0	.0	.0	.0	2.2	.5	1.4	.0	.0	.0	.0	1.9	
1-2	.0	1.1	.6	.0	.0	.0	1.7	.2	.1	.5	.0	.0	.0	.8	
3-4	.0	.2	.7	.0	.0	.0	.9	.0	1.2	1.2	.0	.0	.0	2.4	
5-6	.0	.2	.4	.2	.0	.0	.8	.0	.0	1.3	.0	.0	.0	1.3	
7	.0	.0	.0	.5	.0	.0	.5	.0	.2	.0	.0	.0	.0	.2	
8-9	.0	.0	.2	.0	.2	.0	.4	.0	.0	.5	.0	.0	.0	.5	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.2	.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	
TOT PCT	.0	3.7	1.9	.9	.4	.0	6.9	.7	2.9	3.7	.0	.0	.0	7.3	98.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.8	9.7	.2	.0	.0	.0	15.7	
1-2	1.6	15.7	4.4	.0	.0	.0	21.8	
3-4	.7	10.6	13.0	.7	.0	.0	25.0	
5-6	.0	2.1	13.2	3.5	.9	.0	19.7	
7	.0	.5	2.3	3.5	.7	.0	6.9	
8-9	.0	.0	1.2	2.3	.7	.0	4.2	
10-11	.0	.0	.7	1.2	.7	.0	2.5	
12	.0	.0	.2	.2	.0	.0	.5	
13-16	.0	.0	.2	.7	1.2	.0	2.1	
17-19	.0	.2	.0	.5	.7	.0	1.4	
20-22	.0	.0	.0	.0	.2	.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	
								432
TOT PCT	8.1	38.9	35.4	12.5	5.1	.0	100.0	

PERIOD: (OVER-ALL) 1949-1972

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	6.9	9.3	7.1	2.4	.3	.5	.3	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	169	4
6-7	.0	.9	5.4	9.3	6.0	1.9	1.4	.7	.9	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	155	6
8-9	.0	.2	3.1	2.8	5.5	3.1	2.4	1.0	1.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	116	7
10-11	.0	.3	.2	.9	1.2	.7	1.9	.5	.5	.2	.5	.0	.2	.0	.0	.0	.0	.0	.0	41	10
12-13	.0	.0	.0	.2	.3	.0	.3	.0	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	11	12
>13	.0	.0	.0	.3	.5	.0	.2	.2	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	9	10
INDET	9.2	1.7	.5	.7	.7	.2	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	78	2
TOTAL	60	58	107	123	97	36	39	17	27	6	7	1	1	0	0	0	0	0	0	579	6
PCT	10.4	10.0	18.5	21.2	16.8	6.2	6.7	2.9	4.7	1.0	1.2	.2	.2	.0	.0	.0	.0	0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1857-1972

AREA 0007 SYDNEY
33.25 152.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG SNOW	DUST	NO SIG WEA
N	4.2	3.3	.0	.0	.0	.0	.0	7.4	1.1	5.3	4.8	.0	.5	.0		82.1
NE	5.1	5.7	1.1	.0	.0	.0	.5	12.5	2.3	7.0	3.3	.0	1.1	.0		77.4
E	6.0	11.1	2.6	.0	.0	.0	.0	19.7	.7	2.6	4.7	.0	.0	.0		73.4
SE	5.8	7.7	2.0	.0	.0	.0	.0	15.5	2.2	.9	3.0	.0	.0	.0		79.1
S	8.1	14.6	1.9	.0	.0	.0	.0	24.6	2.3	1.5	1.9	.0	.0	.0		70.0
SW	6.1	8.9	1.0	.0	.0	.0	.0	15.9	1.1	2.1	1.9	.0	.0	.0		79.6
W	3.4	3.1	.5	.0	.0	.0	.0	6.8	.6	3.8	1.4	.0	.7	.0		87.4
NW	4.2	3.0	.5	.0	.0	.0	.0	7.6	1.1	5.9	2.7	.0	1.1	.0		82.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	1.6	.0	.0	.0	.0	1.6	.0	2.2	3.2	.0	6.3	.0		85.7
TOT PCT	5.3	7.3	1.2	.0	.0	.0	*	13.8	1.4	3.3	2.6	.0	.6	.0		79.1
TOT OBS:	2119															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG SNOW	DUST	NO SIG WEA
00&03	5.5	4.7	1.7	.0	.0	.0	.0	11.8	1.2	.5	2.6	.0	.9	.0		83.4
06&09	6.2	8.7	1.0	.0	.0	.0	.0	15.8	1.0	2.2	3.0	.0	.5	.0		78.3
12&15	6.2	7.2	.4	.0	.0	.0	.0	13.8	2.1	7.0	2.5	.0	.2	.0		76.3
18&21	4.8	7.8	1.6	.0	.0	.0	.2	14.1	1.4	3.6	2.3	.0	.6	.0		78.9
TOT PCT	5.6	7.3	1.1	.0	.0	.0	*	14.1	1.4	3.3	2.6	.0	.5	.0		79.0
TOT OBS:	2183															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	4.7	3.0	.2	.0	.0		8.9	9.5	7.1	6.0	6.4	10.3	11.3	11.5	10.1	9.0
NE	1.1	4.8	2.3	.3	.0	.0		8.5	9.1	10.0	6.0	13.8	10.0	7.7	8.9	7.4	5.4
E	.7	3.3	1.9	.5	.1	.0		6.6	10.6	6.9	5.4	8.1	10.0	5.7	7.3	4.8	4.2
SE	.7	5.6	3.8	1.7	.5	.1		12.4	13.5	11.0	12.6	11.5	14.2	7.3	14.8	11.4	13.8
S	1.5	6.4	6.0	2.9	.8	.2		17.8	14.7	13.9	20.3	20.1	17.3	20.8	17.0	14.4	17.1
SW	1.4	6.3	6.3	3.1	.7	.2		18.0	14.8	18.7	20.9	16.9	14.1	16.7	15.7	22.4	16.6
W	1.6	5.7	5.0	2.1	.4	.1		14.9	13.2	17.6	16.9	14.3	11.6	14.0	12.4	16.1	17.3
NW	1.5	4.7	3.1	.4	.1	*		9.9	10.1	12.9	8.5	7.5	8.2	11.9	10.4	10.2	13.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1							3.1	.0	1.9	3.5	1.3	4.3	4.6	1.9	3.3	3.6
TOT OBS	371	1215	919	331	75	16	2927		12.2	155	519	390	441	237	361	490	334
TOT PCT	12.7	41.5	31.4	11.3	2.6	.5		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.0	4.9	1.0	*	.0		8.9	9.5	6.2	8.5	11.4	9.6
NE	3.4	4.0	1.1	*	.0		8.5	9.1	6.9	11.8	8.4	6.6
E	2.6	2.6	1.1	.3	*		6.6	10.6	5.8	9.1	6.7	4.6
SE	3.1	5.6	2.5	.8	.4		12.4	13.5	12.2	12.9	11.8	12.3
S	4.4	6.8	4.2	2.0	.5		17.8	14.7	18.8	18.6	18.5	15.5
SW	3.9	6.8	5.1	2.0	.2		18.0	14.8	20.4	15.4	16.1	20.1
W	4.2	6.2	3.2	1.2	.1		14.9	13.2	17.0	12.8	13.0	16.6
NW	3.3	5.0	1.2	.3	*		9.9	10.1	9.5	7.9	11.0	11.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.1						3.1	.0	3.1	2.9	3.0	3.4
TOT OBS	904	1229	564	194	36	2927		12.2	674	831	598	824
TOT PCT	30.9	42.0	19.3	6.6	1.2		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1857-1972

AREA 0007 SYDNEY
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.1	11.6	38.6	30.9	10.2	4.3	1.3	12.8	100.0	674
06&09	2.9	9.4	43.1	30.6	11.4	2.3	.4	11.9	100.0	831
12&15	3.0	7.0	44.0	32.1	11.7	2.0	.2	12.3	100.0	598
18&21	3.4	10.0	40.5	32.2	11.8	1.8	.4	12.0	100.0	824
TOT	91	280	1215	919	331	75	16	12.2		2927
PCT	3.1	9.6	41.5	31.4	11.3	2.6	.5		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.1	2.1	2.5	1.9		4.2
NE	2.2	1.1	3.2	2.1		4.9
E	1.4	.9	2.5	.8		4.9
SE	1.7	3.1	3.0	1.1		4.5
S	3.9	4.4	3.7	3.0		4.6
SW	6.1	4.4	4.9	1.8		3.8
W	6.8	3.4	5.2	2.3		3.8
NW	4.1	1.7	3.0	2.0		4.0
VAR	.0	.0	.0	.0		.0
CALM	3.3	.7	.4	.0		1.9
TOT OBS	231	154	215	106	706	4.1
TOT PCT	32.7	21.8	30.5	15.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	.4	1.6	.8	.2	.0	.2	.1	6.2	
NE	.3	.0	.4	.3	1.5	.3	.1	.0	.0	.3	5.4	
E	.0	.0	.0	.7	.6	.7	.1	.0	.0	.0	3.5	
SE	.0	.0	.1	.5	1.4	1.1	.1	.0	.0	.0	5.7	
S	.0	.0	.5	1.9	2.1	1.9	.5	.0	.0	.0	10.1	
SW	.0	.0	.5	.9	2.4	1.3	.4	.0	.0	.0	11.8	
W	.3	.0	.0	1.4	2.4	1.5	.5	.0	.0	.5	11.2	
NW	.0	.0	.1	1.0	1.7	.3	.1	.1	.1	.5	6.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.1	.0	.0	.0	.1	.0	4.0	
TOT OBS	4	0	13	50	98	56	14	1	3	10	457	706
TOT PCT	.6	.0	1.8	7.1	13.9	7.9	2.0	.1	.4	1.4	64.7	100.0

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 >50YD	= OR >0
= OR >6500	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
= OR >5000	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >3500	3.5	3.9	3.9	3.9	3.9	3.9	3.9	3.9
= OR >2000	9.4	11.5	11.8	11.8	11.8	11.9	11.9	11.9
= OR >1000	20.1	25.1	25.4	25.5	25.5	25.7	25.7	25.7
= OR >600	24.3	30.7	32.4	32.5	32.5	32.7	32.7	32.7
= OR >300	25.4	32.4	34.2	34.4	34.4	34.5	34.5	34.5
= OR >150	25.4	32.4	34.2	34.4	34.4	34.5	34.5	34.5
= OR > 0	25.4	32.7	34.5	34.6	34.8	35.1	35.1	35.1
TOTAL	181	233	246	247	248	250	250	250

TOTAL NUMBER OF OBS: 713 PCT FREQ NH <5/8: 64.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.1	13.5	16.7	14.1	7.9	7.8	9.6	7.1	10.8	.5	780

MAY

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1857-1972

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	NO PCP	.0	*	.0	.0	.0	.0	*	.0	.0	*	.1	
	TOT %	.0	*	.0	*	*	.0	*	.0	.0	*	.2	
1/2<1	PCP	*	.0	.1	.0	.0	*	*	.0	.0	.0	.2	
	NO PCP	.1	.0	*	.1	.1	.0	*	.1	.0	.0	.4	
	TOT %	.1	.0	.1	.1	.1	*	.1	.1	.0	.0	.6	
1<2	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	*	.0	*	.1	*	.0	.0	.0	.2	
	TOT %	.0	.0	.1	.0	*	.1	*	.0	.0	.0	.2	
2<5	PCP	*	*	*	.1	.6	.2	.1	.1	.0	.0	1.1	
	NO PCP	.0	.1	*	.2	.1	.1	.2	.3	.0	*	1.0	
	TOT %	*	.1	.1	.2	.7	.3	.3	.4	.0	*	2.1	
5<10	PCP	.5	.9	1.0	1.5	2.9	2.3	.7	.5	.0	.0	10.3	
	NO PCP	3.4	2.7	2.0	4.2	5.8	5.8	5.1	3.8	.0	.6	33.5	
	TOT %	3.9	3.7	3.0	5.7	8.7	8.1	5.8	4.4	.0	.6	43.9	
10+	PCP	.1	.1	.1	.1	.9	.3	.2	.2	.0	*	2.1	
	NO PCP	5.2	4.7	3.0	4.9	7.5	8.5	9.4	5.4	.0	2.3	50.9	
	TOT %	5.3	4.8	3.2	5.0	8.3	8.8	9.7	5.6	.0	2.3	53.0	
	TOT OBS												2118
	TOT PCT	9.4	8.7	6.5	11.1	17.9	17.3	15.9	10.4	.0	3.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	*	.0	.0	.0	.0	.0	*	.0	*	.1	
	4-10	.0	.0	.0	.0	.0	.0	*	.0	.0		*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	TOT %	.0	*	.0	*	*	.0	*	*	.0	*	.2	
1/2<1	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	4-10	.1	.0	.0	.0	.0	.0	*	.1	.0		.2	
	11-21	.0	.0	*	*	.0	*	*	.0	.0		.2	
	22+	.0	.0	.1	*	*	.0	.0	.0	.0		.1	
	TOT %	.1	.0	.1	.1	.1	*	.1	.1	.0	.0	.6	
1<2	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	*	.0	.0	.0	*	*	.0		.1	
	11-21	.0	.0	*	.0	*	*	*	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0		*	
	TOT %	.0	.0	.1	.0	.1	.1	.1	*	.0	.0	.3	
2<5	0-3	.0	*	*	*	.1	.0	.1	*	.0	.1	.4	
	4-10	.1	.1	*	.2	.4	.1	.1	.3	.0		1.3	
	11-21	.0	.1	*	.1	.2	.1	.1	.1	.0		.7	
	22+	.0	.0	.1	*	.1	.2	.0	.0	.0		.4	
	TOT %	.1	.3	.2	.4	.8	.4	.3	.4	.0	.1	2.8	
5<10	0-3	.3	.4	.4	.2	.6	.7	.5	.7	.0	.6	4.3	
	4-10	1.9	1.9	1.0	2.4	3.0	2.6	1.8	1.8	.0		16.2	
	11-21	1.2	1.1	1.1	1.6	2.8	2.5	1.7	1.3	.0		13.3	
	22+	.2	.1	.4	1.3	1.9	1.9	1.4	.2	.0		7.4	
	TOT %	3.6	3.4	2.9	5.5	8.4	7.6	5.3	4.0	.0	.6	41.2	
10+	0-3	.7	.5	.2	.4	.8	.8	1.1	.8	.0	2.5	7.9	
	4-10	2.8	2.8	1.9	3.0	3.4	3.4	4.0	2.6	.0		23.9	
	11-21	1.8	1.2	1.1	2.0	3.0	3.7	3.6	1.8	.0		18.2	
	22+	.0	.2	.2	.5	1.1	1.6	1.1	.3	.0		4.9	
	TOT %	5.4	4.8	3.4	6.0	8.4	9.4	9.7	5.5	.0	2.5	55.0	
	TOT OBS												2353
	TOT PCT	9.1	8.5	6.6	11.9	17.7	17.5	15.4	9.9	.0	3.2	100.0	

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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
00&03	.6	.0	3.0	6.1	15.2	9.8	3.0	.0	.0	2.4	40.2	59.8	164
06&09	.0	.0	3.3	9.3	9.9	8.6	2.0	.0	.7	.7	34.4	65.6	151
12&15	.4	.0	.9	6.9	12.5	5.2	1.3	.4	.9	.4	28.9	71.1	232
18&21	1.0	.0	.5	4.9	14.2	7.8	1.5	.0	.0	2.0	31.9	68.1	204
TOT	4	0	13	50	98	57	14	1	3	10	230	501	751
PCT	.5	.0	1.7	6.7	13.0	7.6	1.9	.1	.4	1.3	33.3	66.7	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
00&03	.9	.5	.5	2.9	35.4	59.8	443
06&09	.0	.8	.1	3.6	47.9	47.5	718
12&15	.0	.4	.2	1.9	37.2	60.4	535
18&21	.1	.4	.4	2.6	42.7	53.7	721
TOT	5	13	7	68	1008	1316	2417
PCT	.2	.5	.3	2.8	41.7	54.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.6	4.5	12.2	30.8	57.1	156
06&09	.0	3.5	14.1	23.2	62.7	142
12&15	.5	1.4	9.5	21.6	68.9	222
18&21	1.0	1.6	8.3	25.9	65.8	193
TOT	4	18	76	179	458	713
PCT	.6	2.5	10.7	25.1	64.2	100.0

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
80/84	.0	.0	.2	.0	.2	.1	.0	.0	5	.4
75/79	.0	.1	.2	.5	.5	.6	.0	.1	25	1.9
70/74	.0	.0	.4	1.8	3.9	3.4	1.4	.5	151	11.4
65/69	.0	.0	.9	4.5	8.5	13.3	9.0	3.3	522	39.5
60/64	.0	.0	.5	3.1	12.0	9.5	7.7	3.0	473	35.8
55/59	.0	.0	.1	.8	2.9	2.4	2.7	1.2	132	10.0
50/54	.0	.0	.0	.1	.1	.0	.5	.3	12	.9
TOTAL	0	1	29	142	371	386	280	111	1320	100.0
PCT	.0	.1	2.2	10.8	28.1	29.2	21.2	8.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.1	.0	.1	.0	.0	.2	.0	.0	.1
	.2	.7	.0	.1	.1	.0	.4	.2	.0	.3
	1.9	1.9	.9	.7	.5	.8	2.0	1.7	.0	1.1
	4.6	4.6	3.8	4.9	5.7	5.4	4.7	3.9	.0	2.0
	1.3	1.3	1.7	3.8	8.2	8.3	6.7	3.3	.0	1.1
	.2	.2	.1	.3	1.8	3.3	3.0	1.0	.0	.1
	.1	.0	.0	.0	.0	.3	.3	.2	.0	.0
	8.3	8.7	6.5	9.9	16.3	18.2	17.2	10.3	.0	4.6

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	83	77	73	65	58	54	51	65.8	662
06&09	81	76	72	65	58	54	49	65.2	833
12&15	75	73	70	64	57	53	50	64.2	603
18&21	79	73	70	64	56	52	50	63.3	830
TOT	83	75	72	64	57	53	49	64.6	2928

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	14.9	32.2	24.9	21.1	6.9	72	261
06&09	.0	16.5	24.2	31.3	18.4	9.6	72	364
12&15	.0	14.4	27.2	31.3	19.1	8.1	72	320
18&21	.0	8.1	28.0	28.5	26.3	9.1	75	407
TOT	0	178	373	395	290	116	73	1352

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.1	.1	.0	3	.0	.2
9/10	.0	.0	.0	.1	.2	.1	.0	.0	5	.0	.3
7/8	.0	.0	.0	.1	.2	.1	.0	.0	7	.0	.4
6	.0	.0	.0	.1	.2	.1	.1	.0	7	.0	.4
5	.0	.0	.0	.2	.3	.2	.1	.1	14	.0	.8
4	.0	.0	.0	.4	.3	1.0	.3	.1	33	.1	1.8
3	.0	.0	.0	.2	.5	.7	.2	.0	27	.1	1.5
2	.0	.0	.0	.4	1.0	1.4	.4	.0	52	.1	3.0
1	.0	.1	.0	.2	1.4	1.7	.3	.0	63	.2	3.6
0	.0	.0	.1	1.8	3.0	2.2	.1	.0	122	.1	7.2
-1	.0	.1	.2	1.7	2.7	2.2	.4	.0	123	.3	7.0
-2	.0	.1	.4	3.8	5.1	2.6	.2	.0	202	.3	11.7
-3	.0	.1	.2	2.4	4.5	1.7	.1	.0	151	.2	8.8
-4	.0	.2	.8	4.9	4.0	.8	.0	.0	177	.7	9.9
-5	.1	.1	1.2	4.4	4.5	.3	.0	.0	176	.3	10.2
-6	.1	.1	1.5	3.3	2.9	.1	.0	.0	136	.2	7.9
-7/-8	.1	.2	2.1	6.2	2.7	.4	.0	.0	197	.4	11.3
-9/-10	.0	.5	1.9	3.6	.7	.0	.0	.0	113	.1	6.6
-11/-13	.0	.3	1.7	.8	.2	.0	.0	.0	51	.2	2.9
-14/-16	.1	.3	.4	.2	.0	.0	.0	.0	17	.0	1.0
-17/-19	.0	.0	.1	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	6	34	177	582	577	262	38	2	1678	54	1624
PCT	.4	2.0	10.5	34.7	34.4	15.6	2.3	.1	100.0	3.2	96.8

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.2	.0	.0	.0	.0	.9
1-2	.0	3.3	.4	.0	.0	.0	3.7
3-4	.0	.5	3.8	.0	.0	.0	4.3
5-6	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.7	4.0	6.0	.0	.0	.0	10.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.0	3.2	.5	.0	.0	.0	3.7
3-4	.0	.7	1.2	.0	.0	.0	1.9
5-6	.0	.7	.8	.0	.0	.0	1.6
7	.0	.0	.7	.7	.0	.0	1.4
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.2	.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
TOT PCT	.0	5.4	3.6	1.0	.0	.0	9.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2
1-2	.0	1.0	.5	.0	.0	.0	1.4
3-4	.0	.4	.7	.0	.0	.0	1.0
5-6	.0	.0	1.1	.2	.0	.0	1.4
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.2	1.3	2.7	.2	.0	.0	4.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.0	.0	.0	.0	.8
1-2	.0	1.3	.5	.0	.0	.0	1.7
3-4	.0	1.7	1.1	.2	.0	.0	3.1
5-6	.0	.2	.8	.2	.0	.0	1.3
7	.0	.1	.8	.0	.0	.0	.9
8-9	.0	.0	.1	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.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
TOT PCT	.1	4.0	3.4	1.1	.0	.0	8.5

PERIOD: (OVER-ALL) 1963-1972

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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.1	.0	.0	.0	.0	1.5	.4	.6	.0	.0	.0	.0	1.0
1-2	.0	2.3	1.4	.0	.0	.0	3.7	.0	2.7	.0	.0	.0	.0	2.7
3-4	.2	1.0	2.0	.2	.0	.0	3.4	.0	1.8	3.2	.3	.0	.0	5.3
5-6	.0	.0	2.3	.2	.0	.0	2.6	.0	.5	3.7	1.3	.3	.0	5.7
7	.0	.4	2.0	.8	.4	.0	3.6	.0	.0	.9	1.6	.4	.0	2.9
8-9	.0	.2	.7	.6	.0	.0	1.4	.0	.1	.0	.2	.0	.0	.3
10-11	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.1	.1	.0	.1
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.5	.0	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.3	.1	.0	.4
20-22	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.2	.2	.0	.5
23-25	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.2	.0	.2	.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
TOT PCT	.7	5.0	8.7	2.9	1.0	.2	18.4	.4	5.7	7.8	4.5	1.1	.0	19.4

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	.5	.0	.0	.0	.0	.7	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	2.8	.0	.0	.0	.0	2.8	.0	2.3	1.2	.0	.0	.0	3.5	
3-4	.0	.6	2.4	.2	.0	.0	3.3	.0	1.5	3.0	.0	.0	.0	4.5	
5-6	.0	.9	2.7	1.1	.2	.0	4.8	.0	.3	1.0	.1	.0	.0	1.4	
7	.0	.0	1.1	1.7	.4	.0	3.3	.0	.5	.1	.0	.1	.0	.6	
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.2	.0	.2	.0	.4	.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	.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	
TOT PCT	.2	4.8	6.7	3.0	1.0	.0	15.7	.0	4.8	5.3	.1	.1	.0	10.2	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.0	4.3	.0	.0	.0	.0	9.3	
1-2	.0	18.6	4.5	.0	.0	.0	23.2	
3-4	.2	8.1	17.2	1.0	.0	.0	26.5	
5-6	.0	2.6	13.6	3.1	.5	.0	19.8	
7	.0	1.0	6.4	4.8	1.2	.0	13.4	
8-9	.2	.2	1.4	1.2	.0	.0	3.1	
10-11	.0	.0	.2	1.2	.2	.0	1.7	
12	.0	.0	.2	.5	.0	.0	.7	
13-16	.0	.0	.0	.2	.2	.0	.5	
17-19	.0	.0	.0	.5	.2	.0	.7	
20-22	.0	.0	.0	.2	.2	.2	.7	
23-25	.0	.0	.0	.0	.2	.0	.2	
26-32	.0	.0	.0	.0	.2	.0	.2	
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	
TOT PCT	5.5	34.8	43.7	12.6	3.1	.2	100.0	419

PERIOD: (OVER-ALL) 1949-1972

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	9.9	9.4	8.5	4.2	.5	.7	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	200	4
6-7	.0	1.4	6.4	8.7	6.6	2.1	1.9	1.0	.5	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	171	6
8-9	.0	.2	1.0	3.0	2.8	1.9	1.7	.7	1.4	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	75	8
10-11	.0	.0	.5	.3	1.0	.7	1.9	1.2	.7	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	40	10
12-13	.0	.0	.3	.3	.3	.2	.3	.3	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	13	9
>13	.0	.0	.0	.3	.2	.2	.0	.3	.3	.5	.2	.2	.2	.0	.0	.0	.0	.0	.0	14	14
INDET	4.7	1.0	1.6	1.4	.9	.7	.3	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	3
TOTAL	33	72	111	130	92	36	40	22	20	10	6	2	2	0	0	0	0	0	0	576	6
PCT	5.7	12.5	19.3	22.6	16.0	6.3	6.9	3.8	3.5	1.7	1.0	.3	.3	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1902-1972
(OVER-ALL) 1855-1972

AREA 0007 SYDNEY
33.2S 152.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.0	8.0	1.3	.0	.0	.0	.0	13.3	.5	3.2	2.2	.0	1.3		.0	81.2
NE	6.5	5.4	1.8	.0	.0	.0	.0	13.8	.2	5.0	.0	.0	.0		.0	81.5
E	10.2	9.5	3.1	.0	.0	.0	.4	23.2	3.9	3.1	3.9	.0	.0		.0	67.6
SE	11.3	15.0	.5	.0	.0	.0	.2	27.1	.7	3.0	.0	.0	.0		.0	71.1
S	7.8	16.3	2.3	.0	.0	.0	.0	26.4	2.0	3.2	1.4	.0	.0		.0	69.0
SW	5.4	9.0	.9	.0	.0	.0	.0	15.3	1.1	3.1	.6	.0	.2		.0	80.8
W	3.7	2.0	.5	.0	.0	.0	.3	6.5	.5	5.1	.8	.0	.7		.0	88.0
NW	5.0	.8	.5	.0	.0	.0	.0	6.3	.0	2.7	3.1	.0	.6		.0	87.5
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	4.0	.0	.0		.0	96.0
TOT PCT	6.3	8.4	1.2	.0	.0	.0	.1	16.0	1.1	3.5	1.3	.0	.4		.0	79.1
TOT OBS:	1973															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	5.6	5.6	1.2	.0	.0	.0	.0	12.4	1.0	.5	.7	.0	.7		.0	85.0
06609	6.2	10.8	1.3	.0	.0	.0	.2	18.4	.8	2.7	1.1	.0	.3		.0	78.1
12615	5.9	8.1	1.0	.0	.0	.0	.2	15.3	.7	6.7	1.7	.0	.5		.0	78.1
18621	7.1	8.3	1.2	.0	.0	.0	.2	16.7	1.5	4.8	1.7	.0	.3		.0	76.2
TOT PCT	6.3	8.5	1.2	.0	.0	.0	.1	16.1	1.0	3.7	1.3	.0	.4		.0	78.9
TOT OBS:	2054															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	4.1	2.7	.7	.1	.0		8.4	11.1	4.2	6.1	8.3	10.2	7.3	12.6	9.2	5.9
NE	.8	2.8	1.5	.2	*	.0		5.3	9.1	2.4	4.0	6.5	7.4	5.0	5.9	5.9	3.1
E	.4	2.6	1.9	.8	.3	.0		6.0	13.7	12.3	5.4	6.5	6.9	6.3	5.8	5.4	3.6
SE	1.4	3.3	3.6	1.6	.6	.1		10.5	14.1	8.9	10.8	10.0	11.6	11.1	10.8	10.5	9.4
S	1.4	4.8	6.4	3.4	1.1	.1		17.2	16.1	14.3	15.7	23.3	18.2	21.9	16.7	14.9	16.3
SW	3.1	5.8	7.5	4.3	1.1	.1		21.9	15.0	25.6	24.6	20.2	21.6	17.4	18.3	20.4	26.8
W	1.3	5.9	7.3	3.1	1.0	.3		18.8	15.6	23.6	21.2	15.6	13.2	21.1	17.6	20.6	22.3
NW	1.5	4.2	3.0	1.2	.2	.1		10.1	11.6	7.1	10.7	7.0	11.3	8.1	10.1	11.3	11.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	1.6	1.4	2.6	1.8	1.7	2.3	1.8	.9
TOT OBS	340	919	929	419	119	18	2744		13.9	124	491	379	445	175	353	448	329
TOT PCT	12.4	33.5	33.9	15.3	4.3	.7		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.5	4.2	1.4	.3	.0		8.4	11.1	5.7	9.3	10.8	7.8
NE	2.3	2.3	.6	.1	.0		5.3	9.1	3.7	6.9	5.6	4.7
E	1.8	2.1	1.4	.6	.1		6.0	13.7	6.8	6.7	6.0	4.7
SE	2.5	4.5	2.3	1.1	.2		10.5	14.1	10.4	10.9	10.9	10.0
S	3.3	6.1	5.4	1.9	.5		17.2	16.1	15.4	19.4	18.4	15.5
SW	5.2	7.6	6.1	2.4	.6		21.9	15.0	24.8	20.9	18.0	23.1
W	3.9	7.0	5.3	2.1	.5		18.8	15.6	21.7	14.3	18.8	21.3
NW	3.5	4.1	2.0	.5	.1		10.1	11.6	10.0	9.3	9.4	11.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	1.5	2.2	2.1	1.4
TOT OBS	736	1039	670	244	55	2744		13.9	615	824	528	777
TOT PCT	26.8	37.9	24.4	8.9	2.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1902-1972
(OVER-ALL) 1855-1972

AREA 0007 SYDNEY
33.25 152.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.5	12.2	31.1	31.5	17.6	5.0	1.1	14.4	100.0	615
06&09	2.2	10.9	34.8	35.1	12.9	3.6	.5	13.2	100.0	824
12&15	2.1	7.6	31.6	37.5	16.3	4.7	.2	14.5	100.0	528
18&21	1.4	11.1	35.3	31.9	15.3	4.2	.8	13.9	100.0	777
TOT	49	291	919	929	419	119	18	13.9		2744
PCT	1.8	10.6	33.5	33.9	15.3	4.3	.7		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.6	.6	1.8	1.2		4.6
NE	1.4	.8	.9	1.1		4.6
E	1.5	.3	3.4	2.9		5.8
SE	1.2	1.7	4.3	3.2		5.7
S	2.6	5.4	9.1	3.7		5.1
SW	6.6	5.0	6.2	1.7		3.7
W	10.4	3.8	4.2	2.6		3.2
NW	4.2	.6	2.9	1.0		3.5
VAR	.0	.0	.0	.0		.0
CALM	.6	.4	.6	.0		3.5
TOT OBS	152	94	168	88	502	4.3
TOT PCT	30.3	18.7	33.5	17.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.9	.1	.1	.0	.0	.0	.7	3.4	
NE	.0	.0	.0	.5	.6	.2	.0	.0	.0	.0	2.8	
E	.0	.0	.0	1.3	1.9	.4	.3	.4	.0	.0	3.7	
SE	.0	.2	.4	1.6	1.7	.8	.8	.0	.0	.2	4.6	
S	.0	.0	.2	3.1	5.1	.9	.7	.1	.0	.0	10.8	
SW	.2	.0	.4	1.5	3.1	.6	.1	.1	.0	*	13.4	
W	.0	.0	.4	1.2	2.2	1.2	.1	.2	.0	.3	15.4	
NW	.0	.0	.0	.3	1.1	1.0	.3	.0	.0	*	6.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	1.4	
TOT OBS	1	1	7	53	80	28	12	4	0	7	309	502
TOT PCT	.2	.2	1.4	10.6	15.9	5.6	2.4	.8	.0	1.4	61.6	100.0

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 >50YD	= OR >0
= OR >6500	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >5000	1.9	2.1	2.1	2.1	2.1	2.1	2.1	2.1
= OR >3500	3.7	4.5	4.5	4.5	4.5	4.5	4.5	4.5
= OR >2000	8.2	9.7	10.1	10.1	10.1	10.1	10.1	10.1
= OR >1000	20.5	25.0	25.9	25.9	25.9	25.9	25.9	25.9
= OR >600	25.9	33.1	35.9	36.3	36.3	36.3	36.3	36.3
= OR >300	25.9	33.5	37.0	37.4	37.6	37.6	37.6	37.6
= OR >150	25.9	33.7	37.2	37.6	37.8	37.8	37.8	37.8
= OR > 0	25.9	33.7	37.2	37.8	38.0	38.0	38.0	38.0
TOTAL	133	173	191	194	195	195	195	195

TOTAL NUMBER OF OBS: 513

PCT FREQ NH <5/8: 62.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.6	15.3	10.5	10.3	13.6	9.5	9.1	7.8	12.1	.2	580

JUNE

PERIOD: (PRIMARY) 1902-1972
(OVER-ALL) 1855-1972

AREA 0007 SYDNEY
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1	
1/2<1	PCP	.1	.2	.0	.1	.2	.1	.1	.0	.0	.0	.7	
	NO PCP	.1	.0	.1	.0	.0	.1	.1	.1	.0	.0	.3	
	TOT %	.2	.2	.1	.1	.2	.1	.1	.1	.0	.0	1.0	
1<2	PCP	.0	.0	.0	.0	.1	.1	*	*	.0	.0	.2	
	NO PCP	.1	.0	.0	.0	.1	.1	.1	.1	.0	.0	.3	
	TOT %	.1	.0	.0	.0	.1	.1	.1	.1	.0	.0	.5	
2<5	PCP	*	.2	.3	.1	.4	.4	.1	*	.0	.0	1.5	
	NO PCP	*	.1	.1	.4	.2	.2	*	.1	.0	.0	1.1	
	TOT %	.1	.2	.4	.4	.6	.6	.2	.1	.0	.0	2.6	
5<10	PCP	.7	.4	.9	2.2	3.4	2.2	1.0	.5	.0	.0	11.4	
	NO PCP	3.5	2.7	2.2	3.3	6.2	7.6	7.9	3.9	.0	.6	37.9	
	TOT %	4.3	3.0	3.2	5.5	9.7	9.8	8.9	4.4	.0	.6	49.2	
10+	PCP	.2	.1	.2	.4	.5	.6	*	.1	.0	.0	2.2	
	NO PCP	3.2	2.1	2.6	4.0	6.5	10.7	9.5	5.1	.0	.7	44.4	
	TOT %	3.4	2.2	2.9	4.3	7.0	11.3	9.6	5.2	.0	.7	46.6	
	TOT OBS												1972
	TOT PCT	7.9	5.6	6.6	10.4	17.6	22.0	18.8	9.8	.0	1.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0		*	
	TOT %	.0	.0	*	.1	.0	.0	.0	.0	.0	*	.1	
1/2<1	0-3	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	4-10	.0	*	*	.1	*	*	.0	*	.0		.3	
	11-21	.1	.1	.0	*	*	.0	.0	.0	.0		.3	
	22+	*	.0	.0	.0	.1	.1	.1	.0	.0		.3	
	TOT %	.2	.1	*	.1	.2	.1	.1	.1	.0	.0	.9	
1<2	0-3	.0	.0	.0	*	.0	*	*	*	.0	.0	.2	
	4-10	*	.0	.1	.0	.0	*	.1	*	.0		.3	
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.1	.1	*	*	.0		.2	
	TOT %	*	.0	.1	*	.1	.3	.2	.1	.0	.0	.8	
2<5	0-3	.0	.0	.0	.1	.1	*	.1	*	.0	.0	.3	
	4-10	.0	.1	.1	.2	.2	.1	*	.1	.0		.9	
	11-21	.1	.1	.2	.0	.1	.2	.0	.0	.0		.7	
	22+	.0	.0	.1	.3	.3	.4	*	*	.0		1.2	
	TOT %	.1	.2	.4	.5	.8	.8	.1	.2	.0	.0	3.1	
5<10	0-3	.3	.4	.2	.6	.6	.9	.8	.5	.0	.5	4.9	
	4-10	1.8	1.3	1.2	1.5	2.5	2.4	2.6	1.2	.0		14.6	
	11-21	1.8	1.0	.6	1.6	3.1	3.1	3.0	1.9	.0		16.0	
	22+	.2	.1	.9	1.4	2.7	2.9	1.8	.5	.0		10.4	
	TOT %	4.0	2.8	2.9	5.1	8.9	9.2	8.2	4.1	.0	.5	45.9	
10+	0-3	.4	.5	.3	.8	.9	2.6	.5	1.0	.0	.7	7.8	
	4-10	2.1	1.5	1.1	1.7	2.0	3.2	2.6	2.7	.0		17.0	
	11-21	.8	.5	1.0	2.1	3.4	4.2	4.4	1.3	.0		17.7	
	22+	.2	*	.3	.5	1.2	1.8	2.2	.4	.0		6.7	
	TOT %	3.5	2.4	2.7	5.2	7.6	11.9	9.7	5.4	.0	.7	49.2	
	TOT OBS												2185
	TOT PCT	7.8	5.6	6.2	11.1	17.6	22.3	18.3	9.8	.0	1.3	100.0	

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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
00&03	.0	.0	.8	8.8	16.0	5.6	.8	.8	.0	.8	33.6	66.4	125
06&09	.0	.0	.8	12.6	16.0	3.4	3.4	1.7	.0	.8	38.7	61.3	119
12&15	.6	.0	.6	6.9	12.5	6.3	2.5	.6	.0	1.9	31.9	68.1	160
18&21	.0	.7	2.7	10.9	15.0	5.4	2.0	.0	.0	1.4	38.1	61.9	147
TOT	1	1	7	33	81	29	12	4	0	7	195	356	551
PCT	.2	.2	1.3	9.6	14.7	5.3	2.2	.7	.0	1.3	35.4	64.6	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
00&03	.2	.5	1.2	2.6	39.0	56.6	426
06&09	.0	1.1	1.0	3.8	55.3	38.8	709
12&15	.2	1.1	1.1	2.6	38.4	56.6	463
18&21	.1	.9	.4	2.7	48.1	47.8	668
TOT	3	21	20	68	1057	1097	2266
PCT	.1	.9	.9	3.0	46.6	48.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.9	12.0	23.9	64.1	117
06&09	.0	.9	14.5	27.3	58.2	110
12&15	.7	1.3	9.2	24.3	66.4	152
18&21	.0	3.7	17.2	24.6	58.2	134
TOT	1	9	67	128	318	513
PCT	.2	1.8	13.1	25.0	62.0	100.0

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	.0	.1	.0	.0	.0	1	.1
70/74	.0	.0	.1	.1	.4	.6	.3	.2	19	1.6
65/69	.0	.1	1.0	1.2	3.1	5.0	4.2	1.9	192	16.4
60/64	.0	.2	1.5	5.8	12.5	15.7	9.4	4.3	578	49.4
55/59	.0	.0	.3	2.7	5.6	6.7	7.7	3.0	304	26.0
50/54	.0	.0	.0	.3	1.2	1.2	1.8	1.3	67	5.7
45/49	.0	.0	.0	.0	.1	.3	.3	.1	9	.8
TOTAL	0	3	35	118	268	344	277	125	1170	100.0
PCT	.0	.3	3.0	10.1	22.9	29.4	23.7	10.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
.4	.2	.1	.1	.3	.2	.1	.3	.0	.0
2.2	1.7	2.5	1.6	1.8	1.7	2.8	2.0	.0	.2
2.9	2.4	3.6	7.1	10.5	10.1	8.1	3.7	.0	.9
.3	.7	.8	3.2	5.7	5.9	6.6	2.3	.0	.4
.1	.1	.3	.1	.2	2.5	1.6	.8	.0	.2
.0	.0	.0	.1	.2	.3	.3	.0	.0	.0
5.9	5.1	7.2	12.2	18.6	20.6	19.4	9.2	.0	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	77	73	68	62	55	52	46	61.9	611
06&09	75	70	68	61	55	52	47	61.6	837
12&15	72	69	67	61	55	52	51	61.1	544
18&21	75	68	66	60	52	49	46	59.8	795
TOT	77	70	68	61	54	50	46	61.0	2787

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	17.6	22.4	26.9	22.4	10.6	73	245
06&09	.0	14.2	21.4	29.1	23.9	11.4	74	351
12&15	.0	14.3	25.1	34.3	19.9	6.4	72	251
18&21	.0	7.5	23.2	27.7	27.9	13.7	76	358
TOT	0	156	276	353	289	131	74	1205

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
9/10	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
7/8	.0	.0	.0	.1	.5	.1	.1	.1	.0	12	.0	.8
6	.0	.0	.0	.1	.0	.0	.1	.0	.0	2	.0	.1
5	.0	.0	.0	.0	.1	.1	.1	.0	.1	5	.0	.3
4	.0	.0	.0	.0	.3	.4	.0	.1	.0	12	.0	.8
3	.0	.0	.0	.0	.2	.4	.3	.1	.0	14	.0	.9
2	.0	.0	.0	.3	.8	1.0	.4	.0	.0	40	.0	2.5
1	.0	.0	.0	.3	1.6	1.2	.3	.0	.0	52	.1	3.2
0	.0	.0	.1	1.0	2.8	2.2	.4	.0	.0	102	.1	6.3
-1	.0	.0	.3	1.1	3.4	2.9	.5	.0	.0	131	.2	8.1
-2	.0	.0	.5	1.7	5.4	2.8	.2	.0	.0	166	.2	10.3
-3	.0	.0	.2	2.5	4.6	2.0	.1	.0	.0	148	.2	9.2
-4	.0	.1	.4	2.6	5.8	1.8	.0	.0	.0	169	.2	10.5
-5	.0	.5	.8	3.9	5.5	1.3	.0	.0	.0	189	.2	11.8
-6	.0	.3	.6	3.6	3.2	.3	.0	.0	.0	123	.1	7.7
-7/-8	.0	.3	1.7	6.2	4.8	.6	.0	.0	.0	214	.4	13.2
-9/-10	.0	.3	1.8	3.6	1.8	.0	.0	.0	.0	116	.0	7.4
-11/-13	.0	.5	1.4	2.2	.2	.0	.0	.0	.0	67	.1	4.2
-14/-16	.0	.1	.3	.1	.1	.0	.0	.0	.0	8	.0	.5
-17/-19	.1	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	1		127		648		38		1		27	1548
		32		458		267		3		1575		
PCT	.1	2.0	8.1	29.1	41.1	17.0	2.4	.2	.1	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.3	.0	.0	.0	1.0
1-2	.3	3.2	.0	.0	.0	.0	3.4
3-4	.0	.3	.8	.0	.0	.0	1.1
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.3	4.2	1.6	.2	.0	.0	6.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.6
1-2	.0	1.6	.5	.0	.0	.0	2.1
3-4	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.0	.6	.3	.0	.0	.8
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.3	2.4	1.4	.3	.0	.0	4.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.0	.0	.0	.0	1.1
1-2	.5	.5	.0	.0	.0	.0	1.0
3-4	.0	.3	1.4	.3	.0	.0	1.9
5-6	.0	.3	2.7	.2	.0	.0	3.1
7	.0	.0	.0	.5	.3	.0	.8
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.2	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.3	.0	.3
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
TOT PCT	.8	1.9	4.3	1.2	.7	.0	8.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.1	.0	.0	.0	.0	.4
1-2	.5	1.2	.0	.0	.0	.0	1.7
3-4	.0	.8	1.2	.5	.0	.0	2.5
5-6	.0	.8	2.0	.1	.1	.0	2.9
7	.0	.0	.6	.8	.0	.0	1.4
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.3	.0	.3
13-16	.0	.0	.3	.0	.3	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.3	.0	.3
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
TOT PCT	.8	2.9	4.4	1.7	.9	.0	10.6

PERIOD: (OVER-ALL) 1963-1972

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.0	.0	.0	.0	.7
1-2	.0	.6	.3	.0	.0	.0	.9
3-4	.0	1.0	3.9	.0	.0	.0	4.9
5-6	.0	.5	3.0	1.0	.2	.0	4.7
7	.0	.0	3.7	.2	.0	.0	3.9
8-9	.0	.0	.5	1.3	.0	.2	2.0
10-11	.0	.0	.0	.2	.3	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.2	.0	.5
17-19	.0	.0	.0	.5	.0	.0	.5
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.5	.0	.5
26-32	.0	.0	.0	.0	.5	.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
TOT PCT	.3	2.6	11.4	3.4	1.6	.2	19.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	1.0	.8	.0	.0	.0	1.9
3-4	.0	1.1	4.0	.3	.0	.0	5.3
5-6	.0	.3	3.1	1.6	.3	.0	5.1
7	.0	.0	1.0	.3	.3	.0	1.6
8-9	.0	.0	.3	.5	.3	.1	1.1
10-11	.0	.0	.3	.6	.0	.0	.9
12	.0	.0	.1	.8	.3	.0	1.1
13-16	.0	.0	.0	.3	.3	.0	.6
17-19	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.3	.0	.3
23-25	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	2.5	9.4	4.4	1.7	.1	18.1

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.2	.0	.0	.0	1.0
1-2	.0	4.5	.9	.0	.0	.0	5.5
3-4	.0	.7	5.4	.0	.0	.0	6.1
5-6	.0	.0	2.7	.0	.0	.0	2.7
7	.0	.0	1.2	.8	.0	.0	1.9
8-9	.0	.0	.3	.8	.3	.2	1.5
10-11	.0	.0	.3	.7	.0	.3	1.2
12	.0	.0	.2	.5	.3	.0	1.0
13-16	.0	.0	.0	.0	.0	.2	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.5	.5
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
TOT PCT	.0	6.0	11.1	2.8	.5	1.2	21.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.6	.1	.0	.0	.0	.6	
1-2	.3	2.7	.6	.0	.0	.0	3.5	
3-4	.0	1.1	1.2	.0	.0	.0	2.3	
5-6	.0	.0	.3	.0	.0	.0	.3	
7	.0	.0	.6	.6	.0	.0	1.2	
8-9	.0	.0	.0	.0	.3	.1	.3	
10-11	.0	.0	.0	.3	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.1	.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	
TOT PCT	.3	4.4	2.7	.8	.3	.1	8.6	97.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.3	4.1	.5	.0	.0	.0	9.0	
1-2	1.5	15.1	3.1	.0	.0	.0	19.7	
3-4	.0	5.6	17.6	1.0	.0	.0	24.3	
5-6	.3	1.8	14.6	3.1	.5	.0	20.2	
7	.0	.0	7.2	3.3	.5	.0	11.0	
8-9	.0	.0	1.5	2.6	.8	.5	5.4	
10-11	.0	.0	.5	2.3	.3	.3	3.3	
12	.0	.0	.3	1.3	.8	.0	2.3	
13-16	.0	.0	.3	.5	1.0	.3	2.0	
17-19	.0	.0	.0	.5	.0	.0	.5	
20-22	.0	.0	.0	.0	.5	.5	1.0	
23-25	.0	.0	.0	.0	.8	.0	.8	
26-32	.0	.0	.0	.0	.5	.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	
TOT PCT	6.1	26.6	45.5	14.6	5.6	1.5	100.0	391

PERIOD: (OVER-ALL) 1949-1972

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	1.6	6.0	8.3	4.4	3.0	.8	1.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	129	4
6-7	.0	.2	3.4	8.0	6.0	2.2	2.0	1.4	1.0	1.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	132	8
8-9	.0	.4	2.0	9.8	4.4	5.6	3.2	2.2	2.4	.6	1.4	.8	.2	.0	.0	.0	.0	.0	.0	145	9
10-11	.0	.0	1.0	.4	1.6	1.0	1.4	.8	.6	.4	.4	.4	.2	.0	.0	.0	.0	.0	.0	41	10
12-13	.0	.0	.0	.2	.4	.2	.4	.4	1.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	14	11
>13	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	4	16
INDET	3.4	.6	.4	1.4	.2	.6	.2	.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	4
TOTAL	25	36	76	101	78	52	42	27	30	13	15	6	2	0	0	0	0	0	0	503	7
PCT	5.0	7.2	15.1	20.1	15.5	10.3	8.3	5.4	6.0	2.6	3.0	1.2	.4	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1855-1972

AREA 0007 SYDNEY
33.25 152.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.7	1.9	.6	.0	.0	.0	.0	8.2	.0	3.3	4.1	.0	.0	.0	85.1
NE	7.7	7.7	2.4	.0	.0	.0	.0	17.8	.0	1.0	3.8	.0	.5	.0	77.9
E	3.5	6.4	3.5	.0	.0	.0	.0	13.3	1.2	.9	.6	.0	.6	.0	83.5
SE	6.7	16.3	2.1	.0	.0	.0	.0	25.1	.8	1.2	1.2	.0	.2	.0	71.6
S	6.7	11.7	.3	.0	.0	.0	.3	19.0	3.0	2.3	1.3	.0	1.8	.0	73.9
SW	3.4	9.0	.7	.0	.0	.0	.0	13.1	2.0	1.7	1.3	.0	2.0	.1	80.0
W	1.6	4.2	.0	.0	.0	.0	.0	5.7	.5	4.5	2.0	.0	3.4	.1	84.2
NW	2.2	2.1	.0	.0	.0	.0	.5	4.8	.0	5.2	2.6	.0	1.0	.0	86.5
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	5.0	.0	20.0	.0	75.0
TOT PCT	4.2	7.5	.8	.0	.0	.0	.1	12.5	1.2	2.7	2.0	.0	1.9	.1	80.1
TOT OBS:	1828														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.9	5.7	.5	.0	.0	.0	.0	10.1	1.8	.3	.8	.0	3.4	.0	83.6
06&09	4.2	6.7	.8	.0	.0	.0	.2	11.9	.7	2.5	3.0	.0	1.2	.0	81.4
12&15	4.6	9.8	1.2	.0	.0	.0	.2	15.9	2.0	4.9	2.4	.0	.2	.2	75.3
18&21	5.0	7.3	.3	.0	.0	.0	.0	12.6	.5	2.9	2.9	.0	2.4	.0	78.9
TOT PCT	4.5	7.3	.7	.0	.0	.0	.1	12.6	1.1	2.7	2.4	.0	1.8	.1	79.9
TOT OBS:	1971														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	3.6	3.0	.4	*	.0		8.1	10.4	9.5	8.2	8.6	9.7	7.2	8.3	6.1	8.0
NE	.9	2.3	1.8	.6	.1	.0		5.7	11.1	3.6	4.7	7.0	7.6	8.3	5.0	4.6	4.3
E	.8	2.2	1.3	.5	.2	.0		4.9	11.2	4.4	3.6	5.7	7.2	2.6	6.3	3.2	4.9
SE	.6	3.9	2.7	1.5	.3	.1		9.1	14.1	6.7	9.3	10.0	9.8	7.6	9.5	10.0	7.0
S	1.4	6.5	5.1	2.3	1.4	.3		17.0	15.3	20.2	16.4	21.1	16.0	21.9	16.0	15.1	13.2
SW	1.8	7.2	8.4	4.4	1.3	.2		23.2	15.6	25.4	22.0	21.3	21.1	25.8	22.7	23.9	27.8
W	2.0	7.2	6.9	2.7	.9	*		19.7	15.6	22.6	22.7	16.2	15.7	15.8	19.1	23.3	22.0
NW	.9	5.2	3.0	.9	.1	.0		10.2	11.1	6.7	11.0	7.2	9.5	8.9	12.1	12.5	11.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0	.8	2.1	2.9	3.4	1.7	1.0	1.2	1.8
TOT OBS	289	963	813	334	111	15	2525		13.4	126	431	374	409	180	309	416	280
TOT PCT	11.4	38.1	32.2	13.2	4.4	.6		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.5	4.2	1.3	.1	.0		8.1	10.4	8.3	9.2	7.9	6.9
NE	2.1	2.3	1.0	.2	.0		5.7	11.1	4.4	7.3	6.2	4.5
E	1.8	2.0	.6	.4	*		4.9	11.2	3.8	6.5	5.0	3.9
SE	2.2	3.8	2.1	.8	.2		9.1	14.1	8.8	9.9	8.8	8.8
S	4.1	6.4	4.0	1.7	.8		17.0	15.3	17.2	18.4	18.2	14.4
SW	4.9	8.6	6.2	2.9	.6		23.2	15.6	22.8	21.2	23.8	23.4
W	5.3	8.0	4.3	1.9	.2		19.7	13.6	22.7	15.9	17.9	22.8
NW	3.3	4.8	1.8	.3	.1		10.2	11.1	10.0	8.4	10.9	11.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.0						2.0	.0	1.8	3.2	1.2	1.4
TOT OBS	712	1016	538	209	50	2525		13.4	557	783	489	696
TOT PCT	28.2	40.2	21.3	8.3	2.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1855-1972

AREA 0007 SYDNEY
33.25 152.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.8	11.3	33.8	33.2	13.8	5.4	.7	13.9	100.0	557
06&09	3.2	11.4	41.9	28.5	11.1	3.6	.4	12.0	100.0	783
12&15	1.2	3.5	38.9	36.6	14.5	4.7	.6	14.6	100.0	689
18&21	1.4	9.9	36.9	32.5	14.2	4.3	.7	13.6	100.0	696
TOT	51	298	963	813	334	111	15	13.4		2525
PCT	2.0	9.4	38.1	32.2	13.2	4.4	.6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.9	1.2	1.7	1.3		3.8
NE	2.1	.5	1.5	1.9		4.6
E	1.8	1.0	1.0	.1		3.4
SE	1.8	1.0	3.4	2.0		5.1
S	4.8	4.4	9.3	.7		4.2
SW	7.3	6.1	10.4	2.2		4.1
W	9.4	3.9	3.9	1.5		3.0
NW	5.1	1.3	1.7	1.3		3.2
VAR	.0	.0	.0	.0		.0
CALM	1.2	.0	.2	.0		1.5
TOT OBS	184	99	168	56	507	3.8
TOT PCT	36.3	19.5	33.1	11.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.5	.6	.6	.0	.2	.2	.0	5.1	
NE	.0	.0	.2	1.3	.8	.4	.6	.0	.0	.0	2.7	
E	.0	.0	.0	.1	.5	.0	.0	.2	.0	.0	3.2	
SE	.2	.0	.2	*	2.4	1.0	.6	.2	.0	.0	3.6	
S	.0	.0	.0	1.8	4.3	1.5	.3	.2	.0	.0	11.1	
SW	.2	.0	1.0	2.4	4.0	1.9	.5	.0	.2	.0	15.7	
W	.1	.0	.0	1.5	1.5	.6	.2	.3	.0	.1	14.3	
NW	.0	.0	.0	.2	.8	.2	.8	*	.0	*	7.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
TOT OBS	3	0	7	40	76	32	15	6	2	1	325	507
TOT PCT	.6	.0	1.4	7.9	15.0	6.3	3.0	1.2	.4	.2	64.1	100.0

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 >50YD	* OR >0
* OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
* OR >5000	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7
* OR >3500	5.0	5.2	5.2	5.2	5.2	5.2	5.2	5.2
* OR >2000	9.9	11.3	11.5	11.5	11.5	11.5	11.5	11.5
* OR >1000	21.2	25.6	25.8	26.0	26.2	26.2	26.2	26.2
* OR >600	25.4	32.0	33.4	33.8	34.0	34.0	34.0	34.0
* OR >300	26.4	33.2	34.6	35.0	35.3	35.3	35.3	35.3
* OR >150	26.4	33.2	34.6	35.0	35.3	35.3	35.3	35.3
* OR > 0	26.8	33.8	35.1	35.5	35.9	35.9	35.9	35.9
TOTAL	138	174	181	183	185	185	185	185

TOTAL NUMBER OF OBS: 515 PCT FREQ NH <5/8: 64.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
13.4	15.9	11.7	11.7	10.9	10.1	10.2	6.9	9.1	.0	596

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1855-1972

AREA 0007 SYDNEY
33.2S 152.3E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	.1	.0	.0	.0	.0	.1	*	.0	.0	.2	
	TOT %	*	.1	.0	.0	.0	.0	.1	*	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.2	.0	.0	.0	*	.1	.1	.0	.0	.4	
	TOT %	.0	.2	.0	.1	.0	*	.1	.1	.0	.0	.5	
1<2	PCP	.1	.1	.0	.1	.1	.1	.1	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.1	.1	.2	.1	.1	.0	.1	.5	
	TOT %	.1	.1	.0	.1	.2	.2	.1	.1	.0	.1	.8	
2<5	PCP	.1	.2	.1	.2	.4	.2	.1	*	.0	.0	1.2	
	NO PCP	.1	.0	.1	.1	.5	.7	.4	.1	.0	.1	2.0	
	TOT %	.2	.2	.2	.3	.9	.9	.5	.1	.0	.1	3.2	
5<10	PCP	.5	.7	.5	1.8	2.4	2.1	.8	.4	.0	.0	9.2	
	NO PCP	4.1	1.7	2.0	3.6	6.3	7.2	9.1	4.9	.0	.3	39.1	
	TOT %	4.5	2.4	2.5	5.4	8.8	9.3	9.9	5.3	.0	.3	48.3	
10+	PCP	.1	.1	.1	.1	.4	.8	.2	.1	.0	.0	1.7	
	NO PCP	3.8	2.7	2.0	3.1	6.9	12.0	9.3	5.0	.0	.6	45.3	
	TOT %	3.9	2.8	2.1	3.2	7.2	12.7	9.4	5.1	.0	.6	47.0	
	TOT OBS												1827
	TOT PCT	8.7	5.7	4.7	9.0	17.1	23.1	20.0	10.6	.0	1.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	.0	*	*	.0	.0	*	*	.0		.2	
	11-21	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	*	.0	.0	*	*	.0	*	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.0	.0	*	*	.0	.0		.2	
	11-21	.0	.1	.0	.0	.0	*	*	*	.0		.2	
	22+	.0	.0	.0	.1	*	.0	.0	.0	.0		.1	
	TOT %	.0	.2	.0	.1	*	.1	.1	*	.0	.0	.6	
1<2	0-3	.0	.0	.0	.0	*	*	.1	.0	.0	.1	.3	
	4-10	.0	.0	.0	*	.0	.1	.1	.0	.0		.3	
	11-21	.0	*	.0	.0	.0	.0	.0	*	.0		.1	
	22+	*	.0	.0	*	.1	.1	.0	.0	.0		.4	
	TOT %	*	*	.0	.1	.2	.3	.2	*	.0	.1	1.1	
2<5	0-3	*	.0	*	*	.2	.2	.2	*	.0	.1	.9	
	4-10	*	.1	.1	.2	.4	.3	*	.0	.0		1.1	
	11-21	.1	*	.0	*	.1	.2	.1	*	.0		.5	
	22+	.0	.1	*	.1	.2	.2	.2	.0	.0		.9	
	TOT %	.2	.3	.2	.4	1.0	1.0	.5	.1	.0	.1	3.6	
5<10	0-3	.5	.3	.4	.2	.6	.9	1.0	.4	.0	.3	4.7	
	4-10	1.8	1.1	.8	1.8	3.0	2.3	3.4	2.4	.0		16.6	
	11-21	1.6	.6	.6	1.6	2.1	3.0	3.1	1.5	.0		14.0	
	22+	.2	.3	.5	1.3	2.5	2.5	1.6	.7	.0		9.6	
	TOT %	4.1	2.4	2.3	4.9	8.2	8.6	9.1	5.0	.0	.3	45.0	
10+	0-3	.8	.7	.4	.4	.6	.9	.9	.5	.0	.7	5.8	
	4-10	1.6	1.1	1.2	1.7	3.1	4.0	3.7	3.2	.0		19.7	
	11-21	1.5	1.0	.4	1.0	2.9	5.5	3.4	1.4	.0		17.0	
	22+	.1	.2	.1	.3	.9	3.0	2.0	.4	.0		7.1	
	TOT %	4.0	3.0	2.1	3.3	7.5	13.4	10.0	5.4	.0	.7	49.5	
	TOT OBS												2015
	TOT PCT	8.3	6.0	4.6	8.9	16.9	23.4	19.9	10.6	.0	1.3	100.0	

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1855-1972

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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
00&03	.7	.0	1.5	11.0	11.8	6.6	2.9	2.2	.7	.0	37.5	62.5	136
06&09	.9	.0	.9	3.5	16.7	7.0	4.4	.0	.0	.0	33.3	66.7	114
12&15	.6	.0	1.2	7.3	14.6	6.1	1.8	1.2	.0	.0	32.9	67.1	164
18&21	.0	.0	1.3	6.0	11.3	3.3	4.0	.7	.7	.7	27.8	72.2	151
TOT	3	0	7	40	76	32	18	6	2	1	185	380	565
PCT	.5	.0	1.2	7.1	13.5	5.7	3.2	1.1	.4	.2	32.7	67.3	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
00&03	.3	.5	1.0	2.8	40.5	55.0	400
06&09	.3	1.0	1.6	5.9	52.3	38.9	683
12&15	.0	1.4	.2	1.6	43.0	53.8	442
18&21	.6	1.1	1.3	2.7	47.2	47.1	633
TOT	7	22	24	75	1008	1022	2158
PCT	.3	1.0	1.1	3.5	46.7	47.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.8	2.4	14.6	26.8	58.5	123
06&09	1.0	2.1	6.2	33.0	60.8	97
12&15	.6	2.5	10.8	23.6	65.6	157
18&21	.0	1.4	8.7	21.7	69.6	138
TOT	3	11	53	132	330	515
PCT	.6	2.1	10.3	25.6	64.1	100.0

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	.2	.2	.3	.0	.0	.0	7	.6
65/69	.0	.2	.8	.8	2.3	2.4	1.3	1.0	102	8.8
60/64	.0	.3	1.3	5.4	11.8	10.6	7.5	3.4	465	40.2
55/59	.0	.1	.5	4.9	10.3	10.7	9.5	3.9	462	40.0
50/54	.0	.0	.2	.4	2.3	1.7	2.6	1.9	106	9.2
49/49	.0	.0	.0	.0	.2	.4	.2	.4	14	1.2
TOTAL	0	6	34	136	314	299	244	123	1156	100.0
PCT	.0	.5	2.9	11.8	27.2	25.9	21.1	10.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.1	.0	.0	.0	.0	.2	.1	.0	.1
2.4	.9	.3	.4	.6	.7	1.0	2.5	.0	.2
4.4	3.4	1.9	3.4	7.1	8.5	6.6	3.9	.0	1.0
2.2	1.4	1.3	3.2	8.0	12.3	8.1	2.9	.0	.5
.2	.3	.2	.6	1.4	2.7	3.1	.7	.0	.1
.0	.0	.0	.1	.2	.3	.4	.2	.0	.0
9.2	6.1	3.7	7.6	17.3	24.5	19.4	10.3	.0	1.8

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	60	54	52	48	60.5	558
06&09	73	68	66	60	54	50	46	59.9	810
12&15	71	67	65	59	53	50	47	59.2	507
18&21	71	67	64	58	51	48	46	57.8	731
TOT	73	68	65	59	53	49	46	59.3	2606

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	19.6	27.3	25.7	17.6	9.8	72	245
06&09	.0	17.6	24.9	22.9	21.8	12.7	73	353
12&15	.0	14.7	29.5	26.4	22.5	7.0	72	258
18&21	.0	9.6	26.6	29.8	21.9	12.0	75	342
TOT	0	181	322	314	253	128	73	1198

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PERIOD: (PRIMARY) 1906-1972
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.1	.1	.0	2	.0	.1
9/10	.0	.0	.0	.1	.1	.0	.1	.0	3	.0	.2
7/8	.0	.0	.0	.1	.2	.3	.0	.1	9	.0	.6
6	.0	.0	.0	.1	.0	.1	.0	.0	3	.1	.1
5	.0	.0	.0	.1	.5	.1	.0	.0	11	.0	.7
4	.0	.0	.0	.1	.9	.3	.1	.0	21	.0	1.4
3	.0	.0	.1	.3	1.1	.3	.1	.0	27	.1	1.7
2	.0	.1	.1	.9	1.1	.7	.1	.0	46	.1	2.9
1	.0	.0	.3	.9	1.8	.6	.1	.0	56	.1	3.7
0	.0	.0	.5	1.9	3.2	1.2	.1	.0	103	.3	6.6
-1	.0	.0	.3	2.0	2.7	.8	.0	.0	87	.4	5.4
-2	.0	.1	1.5	4.3	4.5	1.0	.0	.0	170	.5	10.8
-3	.0	.2	.8	3.3	4.1	1.1	.0	.0	142	.2	9.2
-4	.0	.1	1.3	5.1	4.2	.4	.0	.0	167	.3	10.8
-5	.0	.3	1.3	5.3	3.3	.5	.0	.0	160	.3	10.4
-6	.0	.3	1.2	3.8	2.4	.3	.0	.0	120	.4	7.6
-7/-8	.1	.8	3.9	6.9	3.0	.1	.0	.0	222	.1	14.6
-9/-10	.1	.1	2.5	2.7	.4	.0	.0	.0	88	.1	5.8
-11/-13	.1	.3	1.7	1.2	.1	.0	.0	.0	51	.0	3.4
-14/-16	.0	.1	.5	.0	.0	.0	.0	.0	9	.0	.6
-17/-19	.1	.1	.1	.1	.0	.0	.0	.0	6	.0	.4
TOTAL	8		240		503		10			43	1460
		39		586		116		1	1503		
PCT	.5	2.6	16.0	39.0	33.5	7.7	.7	.1	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	2.4	.5	.0	.0	.0	2.9
3-4	.0	.3	1.7	.0	.0	.0	1.9
5-6	.0	.3	.5	.0	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.5	.2	.0	.7
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
TOT PCT	.0	3.5	2.7	.7	.2	.0	7.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.5
1-2	.3	.7	.3	.0	.0	.0	1.3
3-4	.0	.9	.1	.0	.0	.0	1.0
5-6	.0	.0	.6	.8	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.1	.3	.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
TOT PCT	.5	1.8	1.1	1.1	.3	.0	4.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	1.6	.2	.0	.0	.0	1.8
3-4	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.5	.0	.5
17-19	.0	.0	.0	.0	.2	.0	.2
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
TOT PCT	.0	2.5	.7	.2	.7	.0	4.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.1	.0	.0	.0	.0	.3
1-2	.0	1.1	.0	.0	.0	.0	1.1
3-4	.0	.6	1.2	.0	.0	.0	1.8
5-6	.0	.3	.3	.9	.0	.0	1.4
7	.0	.0	.8	.6	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.1	.0	.3
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.3	.0	.3
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
TOT PCT	.3	2.0	2.3	1.7	.1	.3	6.7

PERIOD: (OVER-ALL) 1963-1972

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.1	.0	.0	.0	.0	1.6
1-2	.3	2.5	1.2	.0	.0	.0	4.0
3-4	.0	1.6	3.2	.0	.0	.0	4.8
5-6	.0	.2	2.3	.7	.0	.0	3.2
7	.0	.0	.5	.4	1.9	.2	3.0
8-9	.0	.0	.2	.5	.8	.0	1.5
10-11	.0	.0	.2	.5	.0	.5	1.2
12	.0	.0	.0	.2	.3	.0	.5
13-16	.0	.0	.0	.0	.3	.0	.3
17-19	.0	.0	.0	.0	.5	.0	.5
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.3	.0	.3
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
TOT PCT	.8	5.4	7.6	2.2	4.1	.7	20.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	2.9	1.3	.0	.0	.0	4.2
3-4	.0	1.5	3.3	.3	.0	.0	5.2
5-6	.0	.4	3.0	1.7	.3	.0	5.4
7	.0	.0	1.2	3.2	.2	.1	4.7
8-9	.0	.3	.6	.4	.0	.0	1.3
10-11	.0	.0	.1	1.4	.1	.0	1.5
12	.0	.0	.0	.9	.5	.0	1.4
13-16	.0	.0	.0	.5	.9	.0	1.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.5	.0	.0	.5
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
TOT PCT	.0	6.0	9.5	9.0	1.9	.1	26.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0
1-2	.5	2.7	1.1	.0	.0	.0	4.4
3-4	.0	1.8	2.7	.5	.0	.0	5.0
5-6	.0	.2	3.2	.9	.0	.0	4.3
7	.0	.0	.5	.7	.0	.2	1.4
8-9	.0	.0	.0	1.0	1.1	.0	2.1
10-11	.0	.0	.0	.0	.5	.0	.5
12	.0	.0	.0	.0	.5	.0	.5
13-16	.0	.0	.0	.2	.5	.0	.7
17-19	.0	.0	.0	.0	.3	.0	.3
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
TOT PCT	.5	5.8	7.5	3.4	2.7	.2	20.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.5	.0	.0	.0	.0	.5	
1-2	.0	1.9	.3	.0	.0	.0	2.2	
3-4	.0	1.4	1.2	.0	.0	.0	2.6	
5-6	.0	.0	1.4	.1	.0	.0	1.5	
7	.0	.0	.0	.5	.0	.0	.5	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.1	.0	.1	
13-16	.0	.0	.0	.1	.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	
TOT PCT	.0	3.8	2.9	.7	.1	.0	7.5	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.2	4.8	.0	.0	.0	.0	8.0	
1-2	1.3	15.7	5.1	.0	.0	.0	22.1	
3-4	.3	8.5	13.3	.8	.0	.0	22.9	
5-6	.0	1.3	11.7	5.1	.3	.0	18.4	
7	.0	.0	2.9	5.6	2.1	.5	11.2	
8-9	.0	.3	.8	2.4	1.9	.0	5.3	
10-11	.0	.0	.3	2.4	1.1	.5	4.3	
12	.0	.0	.0	1.1	1.3	.0	2.4	
13-16	.0	.0	.0	1.1	2.1	.0	3.2	
17-19	.0	.0	.0	.0	1.1	.0	1.1	
20-22	.0	.0	.0	.5	.0	.0	.5	
23-25	.0	.0	.0	.0	.3	.3	.5	
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	375
TOT PCT	4.8	30.7	34.1	18.9	10.1	1.3	100.0	

PERIOD: (OVER-ALL) 1949-1972

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	6.8	9.4	5.2	1.3	.2	.9	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	4
6-7	.0	1.3	7.2	7.6	4.8	2.4	3.1	1.1	3.7	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	149	7
8-9	.0	.2	1.7	3.7	6.1	3.5	3.5	1.5	1.7	.2	.7	.2	.7	.4	.0	.0	.0	.0	.0	111	9
10-11	.0	.4	.4	.7	1.1	2.2	.4	.0	1.5	.7	.0	.2	.4	.0	.0	.0	.0	.0	.0	37	11
12-13	.0	.0	.0	.4	.2	.2	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	8	12
>13	.0	.0	.0	.0	.0	.0	.2	.0	.4	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	6	18
INDET	1.7	.9	.9	.4	.7	.4	.4	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	5
TOTAL	14	44	90	83	65	41	39	13	41	8	9	3	6	2	0	0	0	0	0	458	7
PCT	3.1	9.6	19.7	18.1	14.2	9.0	8.5	2.8	9.0	1.7	2.0	.7	1.3	.4	.0	.0	.0	.0	.0	100.0	

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PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1855-1972

AREA 0007 SYDNEY
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.6	1.5	.8	.0	.0	.0	.2	7.1	.7	4.8	1.7	.0	2.4	.0	84.9
NE	9.1	4.8	.9	.0	.0	.0	.0	14.6	1.6	2.7	1.2	.0	.9	.0	80.2
E	4.6	10.2	3.1	.0	.0	.0	.9	18.1	.7	.9	3.5	.0	.4	.0	77.3
SE	8.9	7.9	3.1	.0	.0	.0	.0	19.8	.9	1.4	.7	.0	.3	.0	78.3
S	3.0	6.8	2.8	.0	.0	.0	.0	12.6	1.7	2.7	1.2	.0	.4	.0	82.5
SW	4.7	5.6	1.2	.0	.0	.0	.5	12.0	.6	3.8	1.4	.0	.5	.0	82.6
W	2.1	3.3	.8	.0	.0	.0	.0	6.2	.0	4.1	1.6	.0	1.2	.0	87.8
NW	3.6	3.2	.1	.0	.0	.0	.3	7.2	.5	5.4	2.3	.0	2.0	.0	84.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.8	.0	1.9	.0	.0	.0	.0	5.7	.0	.0	3.8	.0	18.9	.0	71.7
TOT PCT	4.5	4.8	1.4	.0	.0	.0	.2	10.9	.7	3.4	1.7	.0	1.5	.0	82.8
TOT OBS:	1873														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.6	4.4	1.4	.0	.0	.0	.3	10.4	.3	.3	1.6	.0	1.4	.0	86.3
06&09	4.4	5.2	1.7	.0	.0	.0	.0	11.3	.5	3.3	1.6	.0	1.4	.0	82.9
12&15	5.5	3.8	.5	.0	.0	.0	.5	10.3	1.5	6.8	2.0	.0	.8	.0	80.4
18&21	3.7	5.7	1.7	.0	.0	.0	.2	11.3	.7	3.0	1.7	.0	2.5	.0	82.0
TOT PCT	4.5	4.9	1.4	.0	.0	.0	.2	10.9	.7	3.4	1.7	.0	1.6	.0	82.8
TOT OBS:	1931														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.6	5.6	4.0	1.3	.1	.1		12.6	11.4	8.6	12.6	14.8	12.4	14.3	15.7	10.2	11.0
NE	.8	4.2	2.5	.8	.2	.0		8.4	11.7	10.0	6.5	10.9	10.8	13.8	9.0	6.0	4.2
E	.7	2.5	1.7	.3	.1	.0		5.3	10.5	4.5	4.9	5.6	6.7	6.4	5.8	5.7	2.6
SE	.9	4.0	2.2	.8	*	.0		7.8	10.4	6.1	5.9	11.8	10.2	8.5	7.2	6.1	6.1
S	1.7	5.5	4.7	2.4	.3	.3		14.9	14.0	18.0	14.8	16.6	16.6	14.7	15.8	12.1	13.1
SW	1.9	6.0	6.9	3.9	.8	.2		19.7	15.2	19.5	21.6	19.0	16.4	17.8	16.0	19.3	27.4
W	1.4	5.9	6.1	3.3	.7	*		17.5	14.6	21.6	18.0	12.4	13.5	12.0	20.6	23.0	19.3
NW	1.1	5.2	3.3	1.2	.3	*		11.1	12.0	9.8	13.6	7.7	8.8	10.3	8.4	15.4	12.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0	1.8	2.1	1.3	4.5	2.3	1.5	2.3	4.0
TOT OBS	336	1044	842	377	68	16	2683		12.8	110	470	399	420	177	338	442	327
TOT PCT	12.5	38.9	31.4	14.1	2.5	.6		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.7	6.1	2.1	.6	.1		12.6	11.4	11.8	13.6	15.2	10.6
NE	2.2	4.4	1.2	.6	.0		8.4	11.7	7.2	10.8	10.7	5.2
E	1.8	2.4	1.0	.1	*		5.3	10.5	4.9	6.1	6.0	4.4
SE	2.9	3.4	1.4	.1	.0		7.8	10.4	5.9	11.0	7.7	6.1
S	4.1	5.8	3.4	1.3	.4		14.9	14.0	15.4	16.6	15.4	12.5
SW	4.2	7.2	5.6	2.3	.3		19.7	15.2	21.2	17.7	16.6	22.8
W	3.8	6.7	5.3	1.6	.2		17.5	14.6	18.7	13.0	17.6	21.4
NW	2.7	5.8	1.9	.5	.1		11.1	12.0	12.9	8.3	9.1	14.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	2.1	2.9	1.7	3.0
TOT OBS	753	1126	583	189	32	2683		12.8	580	819	515	769
TOT PCT	28.1	42.0	21.7	7.0	1.2		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1855-1972

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.1	14.7	35.3	31.2	12.4	3.6	.7	12.6	100.0	580
06&09	2.9	8.7	41.9	30.9	13.1	2.0	.6	12.3	100.0	819
12&15	1.7	4.3	41.4	32.4	16.7	2.7	.8	14.0	100.0	515
18&21	3.0	11.7	36.8	31.3	14.6	2.2	.4	12.5	100.0	769
TOT	68	268	1044	842	377	68	16	12.8		2683
PCT	2.5	10.0	38.9	31.4	14.1	2.5	.6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.3	1.7	2.9	2.9		4.0
NE	3.5	1.6	3.5	2.9		4.5
E	2.6	1.3	2.1	.6		3.9
SE	1.8	1.6	3.3	.8		4.5
S	4.0	3.9	5.4	1.3		4.2
SW	6.3	4.4	5.8	1.0		3.6
W	10.2	3.4	3.3	1.6		2.9
NW	4.0	1.1	2.1	2.2		4.0
VAR	.0	.0	.0	.0		.0
CALM	.6	.6	.4	.0		3.1
TOT OBS	193	99	145	67	504	3.8
TOT PCT	38.3	19.6	28.8	13.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.4	.7	1.4	.7	.2	.0	.1	.0	9.1	
NE	.0	.0	.2	1.4	1.5	.6	.5	.4	.4	.0	6.3	
E	.0	.0	.2	.8	.5	.0	.2	.2	.0	.0	4.8	
SE	.0	.0	.0	.6	.7	.5	.0	.2	.0	.0	5.5	
S	.0	.0	.0	1.2	2.3	1.3	.1	.0	.0	.2	9.4	
SW	.2	.0	.2	1.3	2.5	1.1	.2	.0	.0	.0	11.8	
W	.1	.0	.1	.8	1.7	.7	.0	.2	.0	.0	14.7	
NW	.0	.0	.2	.7	.9	1.0	*	.2	.0	.0	6.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.4	
TOT OBS	2	0	7	39	60	30	7	6	3	1	349	504
TOT PCT	.4	.0	1.4	7.7	11.9	6.0	1.4	1.2	.6	.2	69.2	100.0

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 >50YD	= OR >0
= OR >6500	.8	.8	.8	.8	.8	.8	.8	.8
= OR >5000	1.6	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >3500	3.0	3.3	3.5	3.5	3.5	3.5	3.5	3.5
= OR >2000	8.9	9.6	9.8	9.8	9.8	9.8	9.8	9.8
= OR >1000	17.9	20.7	21.5	21.5	21.5	21.5	21.5	21.5
= OR >600	21.5	26.4	28.9	29.1	29.1	29.1	29.1	29.1
= OR >300	21.7	27.0	29.7	30.1	30.1	30.1	30.5	30.5
= OR >150	21.7	27.0	29.7	30.1	30.1	30.1	30.5	30.5
= OR > 0	21.9	27.4	30.1	30.5	30.5	30.5	30.9	30.9
TOTAL	111	139	153	155	155	155	157	157

TOTAL NUMBER OF OBS: 508

PCT FREQ NH <5/8: 69.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.0	24.7	12.0	10.8	10.2	7.0	6.3	6.7	10.3	.0	600

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PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1855-1972

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	TOT %	.1	.0	.0	.1	.0	.0	.2	.0	.0	.0	.4	
1/2<1	PCP	*	*	*	.1	.0	.1	.0	.0	.0	.0	.3	
	NO PCP	.0	.1	.1	.1	.1	*	*	.0	.0	.1	.4	
	TOT %	*	.1	.1	.2	.1	.1	*	.0	.0	.1	.7	
1<2	PCP	.1	.1	.0	.0	.2	.1	.0	.0	.0	.0	.4	
	NO PCP	.2	.1	.0	.0	.0	.1	.1	.2	.0	.1	.6	
	TOT %	.2	.1	.0	.0	.2	.2	.1	.2	.0	.1	1.0	
2<5	PCP	.2	.2	*	.1	.2	.3	.1	.1	.0	.0	1.2	
	NO PCP	.2	.1	.1	.1	.6	.7	.3	.4	.0	.1	2.5	
	TOT %	.3	.3	.1	.1	.8	1.0	.4	.5	.0	.1	3.7	
5<10	PCP	.4	.8	.9	1.1	1.0	1.3	.6	.6	.0	.1	6.9	
	NO PCP	4.7	3.3	2.3	2.7	4.8	7.0	6.4	3.3	.0	1.3	36.0	
	TOT %	5.1	4.1	3.2	3.9	5.9	8.3	7.0	3.9	.0	1.4	42.8	
10+	PCP	.2	.2	.1	.2	.3	.5	.4	.1	.0	.1	1.9	
	NO PCP	6.4	4.2	2.5	3.4	6.6	9.5	10.1	5.8	.0	1.1	49.5	
	TOT %	6.5	4.3	2.6	3.6	6.9	10.0	10.4	5.9	.0	1.2	51.4	
	TOT OBS												1872
	TOT PCT	12.3	9.0	6.0	7.8	13.8	19.7	18.1	10.4	.0	2.8	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	*	.0	.0		*	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	22+	.1	.0	.0	.0	*	*	.1	.0	.0		.3	
	TOT %	.1	.0	.0	*	*	*	.2	.0	.0	.0	.4	
1/2<1	0-3	.0	.1	*	.0	.0	.0	.0	.0	.0	.1	.3	
	4-10	.0	.0	.0	.0	*	.1	*	.0	.0		.2	
	11-21	*	*	.0	*	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	*	.1	.0	*	.0	.0	.0		.2	
	TOT %	*	.1	.1	.2	*	.2	*	.0	.0	.1	.8	
1<2	0-3	*	.0	*	*	.2	.1	.1	.0	.0	.1	.7	
	4-10	.1	*	.0	.1	*	*	.0	.1	.0		.4	
	11-21	.1	*	.0	.0	*	*	*	.1	.0		.4	
	22+	.0	*	.0	.0	*	.1	*	*	.0		.2	
	TOT %	.2	.1	*	.2	.3	.3	.2	.2	.0	.1	1.6	
2<5	0-3	.1	*	.1	*	.4	.3	*	.2	.0	*	1.1	
	4-10	.1	.2	.0	.1	.2	.3	.1	.2	.0		1.1	
	11-21	*	.0	.0	.0	*	.1	*	.1	.0		.4	
	22+	.1	.2	*	.0	.1	.4	.2	.0	.0		1.0	
	TOT %	.3	.4	.1	.1	.8	1.1	.4	.5	.0	*	3.6	
5<10	0-3	.7	.4	.3	.4	.9	1.1	.5	.4	.0	1.3	6.1	
	4-10	1.9	1.7	1.3	1.5	1.8	2.2	2.4	1.8	.0		14.6	
	11-21	1.7	1.2	1.2	1.4	1.5	2.8	2.2	1.0	.0		13.0	
	22+	.4	.5	.1	.4	1.1	1.6	1.4	.4	.0		6.1	
	TOT %	4.7	3.9	2.9	3.7	5.4	7.7	6.5	3.6	.0	1.3	39.7	
10+	0-3	.7	.3	.2	.5	.6	.6	.8	.5	.0	1.2	5.3	
	4-10	3.3	2.3	1.5	2.2	3.1	3.7	3.5	3.1	.0		22.8	
	11-21	2.0	1.6	.8	.9	2.7	3.6	4.3	1.9	.0		17.7	
	22+	.8	.3	.1	.4	1.2	2.4	2.0	.7	.0		8.0	
	TOT %	6.8	4.5	2.6	4.0	7.6	10.4	10.6	6.2	.0	1.2	53.8	
	TOT OBS												2061
	TOT PCT	12.2	9.0	5.8	8.2	14.2	19.5	17.9	10.4	.0	2.8	100.0	

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1855-1972

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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
00&03	.0	.0	2.7	6.3	7.1	4.5	3.6	.0	.9	.9	25.9	74.1	112
06&09	.0	.0	.8	6.8	9.8	6.8	1.5	1.5	.0	.0	27.1	72.9	133
12&15	1.1	.0	1.7	7.4	11.4	5.7	.6	1.7	.6	.0	30.3	69.7	175
18&21	.0	.0	.0	6.4	12.2	5.1	.6	.6	.6	.0	25.6	74.4	156
TOT	2	0	7	39	60	32	8	6	3	1	158	418	576
PCT	.3	.0	1.2	6.8	10.4	5.6	1.4	1.0	.5	.2	27.4	72.6	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
00&03	.5	1.1	1.3	2.1	35.0	59.9	374
06&09	.3	1.0	3.1	6.6	44.1	44.8	669
12&15	.5	.2	.7	2.3	35.0	61.3	431
18&21	.3	.6	.8	2.5	42.9	52.9	645
TOT	8	16	34	78	854	1129	2119
PCT	.4	.8	1.6	3.7	40.3	53.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.0	12.1	18.2	69.7	99
06&09	.0	.9	10.0	22.7	67.3	110
12&15	1.2	3.1	12.4	20.5	67.1	161
18&21	.0	.0	7.2	21.0	71.7	138
TOT	2	9	53	105	350	508
PCT	.4	1.8	10.4	20.7	68.9	100.0

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	.0	.0	.0	.0	1	.1
70/74	.0	.1	.0	.7	.3	.3	.2	.2	20	1.7
65/69	.0	.3	.6	2.3	3.7	3.0	1.9	1.3	153	13.0
60/64	.0	.1	1.2	4.8	12.6	11.6	7.9	2.7	482	40.9
55/59	.0	.1	.7	3.4	9.5	12.1	6.9	2.6	416	35.3
50/54	.0	.0	.3	.4	1.9	1.2	2.6	1.5	93	7.9
45/49	.0	.0	.0	.0	.0	.2	.4	.5	13	1.1
TOTAL	0	7	32	137	330	334	234	104	1178	100.0
PCT	.0	.6	2.7	11.6	28.0	28.4	19.9	8.8		

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	.1	.0	.0
.4	.1	.1	.0	.1	.1	.6	.1	.0	.2
4.0	1.7	.6	.5	1.0	1.0	1.5	2.5	.0	.3
5.5	5.9	3.2	2.9	5.2	5.9	6.6	4.4	.0	1.4
2.0	1.7	1.1	3.4	6.5	9.9	6.8	2.1	.0	2.0
.2	.1	.0	.7	.4	2.3	3.4	.4	.0	.5
.0	.0	.0	.2	.2	.3	.3	.0	.0	.2
12.0	9.5	5.1	7.6	13.3	19.5	19.1	9.5	.0	4.4

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	75	73	69	61	55	51	47	61.7	560
06&09	75	71	68	60	55	53	50	60.9	812
12&15	78	68	66	60	54	51	45	59.7	518
18&21	73	68	65	59	52	48	45	58.5	762
TOT	78	71	67	60	54	50	45	60.2	2652

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	22.2	28.4	23.5	18.5	7.4	70	243
06&09	.0	16.0	30.0	28.1	18.2	7.7	71	363
12&15	.0	16.2	28.6	25.7	21.2	8.3	72	241
18&21	.0	9.3	23.9	32.4	23.1	11.3	75	364
TOT	0	185	334	339	246	107	72	1211

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PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1855-1972

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.0	.3	.1	.1	.1	8	.0	.6
7/8	.0	.0	.0	.1	.2	.5	.3	.1	16	.0	1.1
6	.0	.0	.0	.1	.3	.4	.1	.0	12	.0	.9
5	.0	.0	.0	.1	.2	.5	.2	.0	14	.1	.9
4	.0	.0	.1	.2	.9	1.1	.4	.0	39	.0	2.8
3	.0	.0	.0	.1	.3	.7	.1	.0	16	.0	1.1
2	.0	.0	.1	.5	2.0	1.5	.1	.1	60	.1	4.1
1	.0	.0	.1	.9	2.6	1.4	.1	.0	71	.1	5.0
0	.0	.1	.3	2.2	4.0	2.3	.1	.0	126	.1	8.8
-1	.0	.1	.3	3.6	3.3	1.1	.1	.0	120	.3	8.2
-2	.0	.0	.9	3.6	4.6	1.1	.0	.0	145	.4	9.9
-3	.0	.2	.9	4.8	3.9	.4	.1	.0	145	.3	10.0
-4	.0	[illegible]	1.8	6.4	4.1	.4	.0	.0	180	.1	12.7
-5	.0	[illegible]	1.5	6.3	2.4	.1	.1	.0	151	.0	10.7
-6	.0	.1	1.2	4.1	1.1	.0	.0	.0	93	.0	6.6
-7/-8	.2	.4	2.8	5.2	1.1	.1	.0	.0	138	.1	9.7
-9/-10	.3	.4	1.1	1.4	.2	.0	.0	.0	47	.1	3.3
-11/-13	.0	.2	.6	.6	.1	.0	.0	.0	22	.0	1.6
-14/-16	.0	.1	.0	.1	.0	.0	.0	.0	2	.0	.1
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	7	28	167	564	446	166	25	4	1407	25	1382
PCT	.5	2.0	11.9	40.1	31.7	11.8	1.8	.3	100.0	1.8	98.2

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.2	.0	.0	.0	.0	.7
1-2	.0	2.9	.7	.0	.0	.0	3.6
3-4	.0	2.7	1.4	.7	.0	.0	4.8
5-6	.0	.0	1.5	.3	.0	.0	1.8
7	.0	.0	.0	.3	.0	.3	.5
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.5	.0	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.3	.0	.0	.3
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
TOT PCT	.5	5.8	3.9	2.3	.0	.3	12.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.3	.0	.0	.0	1.4
1-2	.0	2.9	.1	.0	.0	.0	3.0
3-4	.0	2.0	1.9	.3	.0	.0	4.2
5-6	.0	.3	1.8	.6	.0	.0	2.7
7	.0	.0	.6	.0	.3	.0	.9
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.8	.0	.0	.8
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
TOT PCT	.0	6.4	4.7	2.2	.3	.0	13.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	1.6	1.1	.0	.0	.0	2.6
3-4	.0	.9	1.0	.0	.0	.0	2.0
5-6	.0	.3	.2	1.0	.0	.0	1.5
7	.0	.0	.5	.0	.2	.0	.7
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	3.0	3.0	1.0	.2	.0	7.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.2	.0	.0	.0	.0	1.5
1-2	.0	.9	.3	.0	.0	.0	1.2
3-4	.3	.3	.4	.3	.0	.0	1.3
5-6	.0	.3	.3	.0	.0	.0	.5
7	.0	.0	.6	.3	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.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
TOT PCT	.5	2.7	1.6	.6	.0	.0	5.4

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PERIOD: (OVER-ALL) 1963-1972

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.2	.0	.0	.0	1.2	.3	1.1	.1	.0	.0	.0	1.4
1-2	.5	2.4	.5	.0	.0	.0	3.5	.0	1.2	1.3	.0	.0	.0	2.4
3-4	.0	1.6	1.7	.5	.0	.0	3.7	.0	1.4	2.2	.1	.0	.0	3.7
5-6	.0	.0	1.4	.9	.2	.0	2.5	.0	.3	1.7	.2	.1	.0	2.2
7	.2	.0	1.7	.5	.2	.0	2.6	.3	.0	1.0	.3	.3	.1	2.1
8-9	.0	.0	.3	.0	.3	.0	.5	.0	.0	.0	.8	.2	.0	1.0
10-11	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	1.0	.3	.0	1.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.3	.0	.0	.3	.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
TOT PCT	.7	4.9	5.8	3.4	.7	.0	15.6	.6	3.9	6.3	2.8	.9	.1	14.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	.8	.0	.0	.0	.0	1.0	.1	.9	.0	.0	.0	.0	.9	
1-2	.3	1.2	1.4	.0	.0	.0	2.9	.0	2.6	.8	.0	.0	.0	3.5	
3-4	.0	2.1	4.2	.0	.0	.0	6.3	.0	.8	1.5	.1	.0	.0	2.4	
5-6	.0	.9	2.2	.8	.0	.0	4.0	.0	.4	.1	.0	.0	.0	.5	
7	.0	.0	1.6	.5	.3	.2	2.6	.0	.0	.0	.5	.0	.0	.5	
8-9	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.5	.2	.0	.7	.0	.0	.0	.5	.1	.0	.6	
12	.0	.0	.3	.0	.2	.0	.5	.0	.0	.0	.0	.3	.0	.3	
13-16	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.3	.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	.3	.0	.3	.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	
TOT PCT	.5	5.1	10.0	1.8	1.6	.2	19.1	.1	4.7	2.4	1.5	.4	.0	9.1	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.8	6.4	.5	.0	.0	.0	11.8	
1-2	.8	15.5	6.2	.0	.0	.0	22.5	
3-4	.3	11.8	14.2	1.9	.0	.0	28.2	
5-6	.0	2.4	9.1	3.8	.3	.0	15.5	
7	.5	.0	5.9	2.4	1.3	.5	10.7	
8-9	.0	.0	.8	1.1	1.1	.0	2.9	
10-11	.0	.0	.0	3.2	.5	.0	3.8	
12	.0	.0	.3	1.3	.5	.0	2.1	
13-16	.0	.0	.3	1.1	.0	.0	1.3	
17-19	.0	.0	.0	.5	.0	.0	.5	
20-22	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.3	.0	.0	.3	
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	
TOT PCT	6.4	36.2	37.3	15.5	4.0	.5	100.0	373

PERIOD: (OVER-ALL) 1949-1972

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	1.9	5.4	9.7	3.9	1.9	1.9	1.7	.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	130	4
6-7	.0	.0	4.8	10.6	7.3	2.6	2.6	1.3	1.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	143	7
8-9	.0	.0	3.9	3.7	6.3	3.0	2.6	1.3	1.5	1.3	.4	.4	.0	.0	.0	.0	.0	.0	.0	113	8
10-11	.0	.2	1.7	1.1	.9	1.9	.2	.6	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	8
12-13	.0	.0	.4	.0	.2	.0	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	9
>13	.0	.0	.0	.0	.2	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	11
INDET	1.3	1.3	1.1	.4	.9	.2	.6	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	5
TOTAL	15	32	100	91	82	45	37	19	28	9	3	2	0	0	0	0	0	0	0	463	6
PCT	3.2	6.9	21.6	19.7	17.7	9.7	8.0	4.1	6.0	1.9	.6	.4	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1909-1972
(OVER-ALL) 1855-1972

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.6	4.2	1.7	.0	.0	.0	.3	7.9	.8	4.2	7.6	.0	1.4		.0	78.4
NE	4.4	2.2	.4	.0	.0	.0	.0	7.1	.7	4.6	2.9	.0	4.7		.0	82.2
E	11.4	1.3	3.1	.0	.0	.0	.0	15.2	1.8	5.8	7.4	.0	2.0		.0	68.8
SE	6.3	7.0	1.7	.0	.0	.0	.0	14.8	.6	3.3	4.6	.0	.0		.0	77.4
S	4.1	7.1	.8	.0	.0	.0	.3	12.3	2.3	2.1	1.2	.2	1.2		.0	80.7
SW	6.0	5.3	.4	.0	.0	.0	.0	11.6	1.2	6.6	2.4	.1	1.8		.0	77.6
W	6.5	1.9	.0	.0	.0	.0	.0	8.4	1.1	6.6	6.6	.0	5.4		.0	74.8
NW	2.4	1.9	1.0	.0	.0	.0	.0	5.3	.2	3.4	9.7	.0	4.4		.6	77.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	4.4	.0	.0	.0	.0	4.4	2.2	.0	2.2	.0	15.6		.0	75.6
TOT PCT	4.6	4.1	1.1	.0	.0	.0	.1	9.9	1.2	4.4	4.8	.1	2.9		.1	77.9
TOT OBS:	1766															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	5.7	1.7	.6	.0	.0	.0	.6	8.5	.9	1.4	2.6	.0	5.1		.3	81.8
06&09	4.1	3.4	1.6	.0	.0	.0	.0	9.0	.9	3.4	6.2	.0	2.3		.0	79.4
12&15	4.9	4.2	1.0	.0	.0	.0	.0	9.8	2.0	7.4	3.2	.0	1.0		.0	77.9
18&21	4.4	6.1	1.3	.0	.0	.0	.0	11.8	.9	4.9	6.6	.2	3.2		.0	73.4
TOT PCT	4.6	4.0	1.2	.0	.0	.0	.1	9.9	1.1	4.3	5.0	.1	2.8		.1	77.8
TOT OBS:	1852															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	6.3	6.7	2.3	.1	.1		16.7	13.2	18.7	15.2	13.8	16.2	15.8	19.5	17.8	17.6
NE	1.0	6.2	4.9	.7	.1	.0		12.9	11.0	5.9	12.3	19.5	16.5	14.7	15.2	10.3	3.6
E	1.0	3.3	1.8	.3	.1	.0		6.4	9.9	5.7	4.5	8.4	9.3	8.3	8.0	5.1	1.9
SE	.5	4.1	2.8	.8	.1	.0		8.3	11.7	7.1	6.4	8.3	11.9	8.5	9.8	6.6	7.3
S	1.4	5.6	6.9	2.5	.5	.0		16.9	13.9	19.1	18.4	19.4	17.0	20.4	13.9	13.7	16.7
SW	1.0	4.3	5.0	2.8	.8	.0		13.9	15.6	16.0	13.9	13.6	10.0	16.8	12.1	17.0	14.4
W	1.5	3.9	4.2	2.1	.5	*		12.2	13.8	13.2	14.8	9.4	9.5	9.7	9.5	13.2	18.8
NW	.8	4.2	3.3	1.0	.2	.0		9.6	12.0	11.8	10.4	6.9	6.0	4.3	11.0	13.5	12.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1							3.1	.0	2.5	4.1	.8	3.7	1.5	1.2	2.9	7.4
TOT OBS	286	957	899	317	62	3	2524		12.6	119	393	356	407	199	333	421	296
TOT PCT	11.3	37.9	35.6	12.6	2.5	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.2	6.8	4.6	.9	.1		16.7	13.2	16.0	15.1	18.1	17.7
NE	3.4	7.0	2.3	.3	.0		12.9	11.0	10.8	17.9	15.0	7.5
E	2.6	2.7	.8	.1	.1		6.4	9.9	4.7	8.9	8.1	3.8
SE	2.2	4.4	1.1	.6	.0		8.3	11.7	6.6	10.2	9.3	6.9
S	3.7	6.9	5.0	1.3	.1		16.9	13.9	18.6	18.1	16.3	14.9
SW	2.7	5.2	4.1	1.8	.1		13.9	15.6	14.4	11.7	13.9	15.9
W	3.5	4.4	2.6	1.3	.1		12.2	13.8	14.4	9.4	9.5	15.5
NW	2.7	4.6	1.8	.5	*		9.6	12.0	10.7	6.4	8.5	13.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.1						3.1	.0	3.7	2.4	1.3	4.7
TOT OBS	710	1061	571	170	12	2524		12.6	512	763	532	717
TOT PCT	28.1	42.0	22.6	6.7	.5		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.7	10.5	37.9	31.4	14.3	2.0	.2	12.2	100.0	512
06&09	2.4	8.4	36.2	38.1	12.2	2.5	.3	13.0	100.0	763
12&15	1.3	4.1	40.8	36.3	14.5	3.0	.0	13.5	100.0	532
18&21	4.7	9.5	37.7	35.4	10.3	2.4	.0	11.8	100.0	717
TOT	78	208	957	899	317	62	3	12.6		2324
PCT	3.1	8.2	37.9	35.6	12.6	2.5	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.7	2.7	2.6	2.3		3.0
NE	5.0	1.6	2.6	1.4		3.3
E	1.9	1.1	1.9	2.2		4.9
SE	1.6	1.1	2.4	2.3		5.3
S	5.8	3.1	8.0	2.3		4.4
SW	4.7	2.9	7.0	1.8		4.5
W	5.4	2.6	2.5	1.4		3.3
NW	3.5	1.5	2.9	1.0		3.9
VAR	.0	.0	.0	.0		.0
CALM	.9	.4	.2	.4		3.0
TOT OBS	204	92	164	83	543	4.0
TOT PCT	37.6	16.9	30.2	15.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.4	.5	1.7	.4	.2	.2	.0	.2	12.9	
NE	.0	.0	*	.1	1.5	.6	.4	*	.0	.0	7.9	
E	.0	.0	.5	1.0	.4	1.0	.1	.1	.0	.0	4.1	
SE	.0	.0	.2	1.0	1.2	1.2	.5	.0	.0	.0	3.3	
S	.0	.0	.2	2.7	3.5	1.2	.5	.1	.2	.0	11.0	
SW	.0	.0	.2	1.7	2.9	1.5	.0	.1	.0	.0	10.3	
W	.0	.2	.1	.6	1.0	1.0	.0	.0	.0	.0	8.9	
NW	.0	.0	*	.6	.6	1.2	.4	.0	.0	.2	6.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.2	.2	.0	.0	.0	.0	1.3	
TOT OBS	0	1	9	45	70	45	11	3	1	2	356	543
TOT PCT	.0	.2	1.7	8.3	12.9	8.3	2.0	.6	.2	.4	65.6	100.0

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 >50YD	* OR >0
* OR >6500	.2	.5	.5	.5	.5	.5	.5	.5
* OR >5000	.5	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >3500	2.1	3.8	3.8	3.8	3.8	3.8	3.8	3.8
* OR >2000	8.0	11.3	11.8	11.8	11.8	11.8	11.8	11.8
* OR >1000	17.7	23.6	24.3	24.3	24.3	24.3	24.3	24.3
* OR >600	23.0	31.6	32.5	32.5	32.5	32.5	32.5	32.5
* OR >300	23.4	32.7	33.6	34.1	34.1	34.1	34.1	34.1
* OR >150	23.4	32.9	33.8	34.3	34.3	34.3	34.3	34.3
* OR > 0	23.4	32.9	33.8	34.3	34.3	34.3	34.3	34.3
TOTAL	131	184	189	192	192	192	192	192

TOTAL NUMBER OF OBS: 560 PCT FREQ NH <5/8: 65.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.3	16.9	11.9	11.1	8.5	7.0	8.3	8.0	11.1	.0	614

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.2	
	TOT %	.0	.1	.1	.0	.1	.1	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	*	*	.0	.0	.1	.0	.0	.0	.0	.2	
	NO PCP	1.0	.2	.0	.1	.1	.1	.5	.3	.0	.0	2.3	
	TOT %	1.0	.2	*	.1	.1	.2	.5	.3	.0	.0	2.5	
1<2	PCP	.0	*	.1	*	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.1	.3	.1	.0	.0	.1	.2	.2	.0	.1	1.1	
	TOT %	.1	.3	.2	*	.1	.1	.2	.2	.0	.1	1.3	
2<5	PCP	.1	.1	.1	*	.2	.1	.1	*	.0	.0	.7	
	NO PCP	.2	.3	.3	.2	.2	.3	.5	.2	.0	.2	2.3	
	TOT %	.3	.3	.4	.2	.4	.4	.6	.2	.0	.2	3.0	
5<10	PCP	1.2	.7	.7	.8	1.5	1.0	.7	.4	.0	.1	7.1	
	NO PCP	6.6	5.1	2.0	3.0	6.0	5.1	3.9	3.0	.0	.5	35.1	
	TOT %	7.9	5.8	2.7	3.9	7.5	6.1	4.5	3.4	.0	.5	42.2	
10+	PCP	*	.1	.1	.2	.5	.4	.3	.0	.0	.1	1.6	
	NO PCP	8.1	5.8	2.9	3.2	9.7	6.7	6.4	4.7	.0	1.6	49.2	
	TOT %	8.2	5.9	2.9	3.5	10.1	7.1	6.7	4.7	.0	1.7	50.7	
	TOT OBS												1766
	TOT PCT	17.4	12.6	6.3	7.7	18.2	14.0	12.5	8.7	.0	2.5	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	*	.0	.1	.0	.0	.1	.0	*	.0		.2	
	11-21	.0	.1	.0	.0	.1	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.1	.1	.0	.1	.1	.0	*	.0	.1	.3	
1/2<1	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	.4	.1	.0	*	*	.1	.0	.1	.0		.6	
	11-21	.4	.1	*	.0	.1	.1	.1	.1	.0		1.0	
	22+	.2	.0	.0	.0	*	*	.3	.1	.0		.7	
	TOT %	.9	.2	*	.1	.1	.2	.5	.3	.0	.0	2.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.1	.2	
	4-10	.0	.2	.1	.0	.1	.1	.0	.1	.0		.4	
	11-21	.1	*	.0	.0	.0	.1	*	.1	.0		.3	
	22+	.0	.1	.1	*	.1	.1	.1	*	.0		.5	
	TOT %	.1	.3	.2	*	.1	.2	.1	.1	.0	.1	1.3	
2<5	0-3	.0	.1	.2	.1	.1	*	.3	*	.0	.2	1.1	
	4-10	.2	.1	.1	*	.0	.0	.1	.1	.0		.7	
	11-21	*	.1	.2	.1	.2	.2	.1	.0	.0		.8	
	22+	*	.1	*	*	.1	.2	*	.1	.0		.5	
	TOT %	.3	.4	.4	.3	.4	.4	.5	.2	.0	.2	3.1	
5<10	0-3	.5	.3	.4	.2	.3	.2	.2	.4	.0	.5	3.0	
	4-10	1.9	2.5	1.0	1.6	2.2	1.5	1.0	1.1	.0		12.8	
	11-21	3.2	2.2	.9	1.4	2.8	2.4	1.7	1.3	.0		15.9	
	22+	1.6	.4	.3	.5	1.6	1.6	1.3	.5	.0		7.7	
	TOT %	7.2	5.3	2.6	3.8	7.0	5.6	4.2	3.3	.0	.5	39.5	
10+	0-3	.5	.6	.6	.1	.8	.6	1.0	.3	.0	2.1	6.5	
	4-10	3.4	3.0	2.0	2.4	3.7	2.4	2.3	2.6	.0		21.8	
	11-21	3.4	2.3	.8	1.1	4.3	2.6	2.4	1.7	.0		18.6	
	22+	1.1	.4	.1	.3	1.5	2.2	.9	.4	.0		6.8	
	TOT %	8.4	6.3	3.4	3.9	10.2	7.7	6.6	4.9	.0	2.1	53.6	
	TOT OBS												1966
	TOT PCT	16.9	12.5	6.7	8.0	17.9	14.2	11.9	8.9	.0	2.9	100.0	

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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
00&03	.0	.0	3.1	11.5	10.0	10.8	3.8	.8	.0	.8	40.8	59.2	130
06&09	.0	.0	.8	10.8	10.8	6.9	1.5	.0	.0	.0	30.8	69.2	130
12&15	.0	.0	1.6	5.3	13.8	8.5	1.6	1.1	.0	.5	32.4	67.6	188
18&21	.0	.7	.7	4.8	11.6	4.1	2.7	.7	.7	.0	25.9	74.1	147
TOT	0	1	9	46	70	45	14	4	1	2	192	403	595
PCT	.0	.2	1.5	7.7	11.8	7.6	2.4	.7	.2	.3	32.3	67.7	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
00&03	.3	1.6	1.1	1.1	35.1	60.8	367
06&09	.2	3.7	1.2	5.4	45.9	43.6	647
12&15	.0	.9	.9	2.9	35.7	59.7	454
18&21	.7	2.7	1.5	1.5	41.1	52.4	586
TOT	6	50	25	61	829	1083	2054
PCT	.3	2.4	1.2	3.0	40.4	52.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.3	16.3	27.6	56.1	123
06&09	.0	.8	13.3	20.0	66.7	120
12&15	.0	1.7	9.0	25.3	65.7	178
18&21	.0	1.4	7.2	20.9	71.9	139
TOT	0	10	62	132	366	560
PCT	.0	1.8	11.1	23.6	65.4	100.0

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
80/84	.0	.1	.0	.3	.0	.0	.0	.0	4	.3
75/79	.0	.0	.1	.7	.2	.1	.1	.0	13	1.1
70/74	.0	.2	.3	1.0	2.7	1.5	.6	.3	77	6.6
65/69	.0	.3	.5	2.6	5.0	6.3	8.8	4.6	328	28.2
60/64	.0	.1	1.3	3.5	8.8	11.8	11.8	4.2	482	41.4
55/59	.0	.0	.3	2.2	4.2	6.0	5.8	1.5	233	20.0
50/54	.0	.0	.0	.4	.5	.4	1.0	.0	28	2.4
TOTAL	0	8	28	125	248	304	327	125	1165	100.0
PCT	.0	.7	2.4	10.7	21.3	26.1	28.1	10.7		

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	.2	.0	.2
.1	.2	.2	*	.1	*	.3	*	.0	.3
1.1	1.1	.5	.4	.6	.6	1.2	.6	.0	.5
7.6	4.7	1.5	.8	2.7	1.8	3.9	3.8	.0	1.3
7.2	5.3	3.4	3.8	7.4	5.2	4.9	3.0	.0	1.1
1.5	.5	.8	2.3	5.2	6.0	2.2	.8	.0	.8
.0	.0	*	.1	.8	.9	.6	.0	.0	.0
17.4	11.8	6.4	7.4	16.7	14.5	13.1	8.5	.0	4.1

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	81	76	72	64	56	53	50	64.0	515
06&09	81	75	71	63	56	54	49	63.4	763
12&15	74	70	68	62	56	54	51	61.9	540
18&21	80	73	68	61	55	52	49	61.3	739
TOT	81	74	70	62	56	53	49	62.6	2557

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	20.1	24.6	20.9	28.3	6.1	71	244
06&09	.0	15.5	19.3	28.9	23.2	13.1	74	336
12&15	.0	11.0	20.2	30.1	27.0	11.7	75	282
18&21	.0	10.1	21.3	25.1	32.6	11.0	76	347
TOT	0	167	256	320	336	130	74	1209

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PERIOD: (PRIMARY) 1909-1972
(OVER-ALL) 1855-1972

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	.0	.1	2	.0	.1
11/13	.0	.0	.0	.0	.0	.1	.1	.0	.0	3	.0	.2
9/10	.0	.0	.0	.2	.1	.3	.2	.0	.0	11	.1	.7
7/8	.0	.0	.0	.3	.3	1.0	.3	.0	.0	26	.1	1.9
6	.0	.0	.1	.1	.4	.0	.0	.0	.0	8	.1	.5
5	.0	.0	.0	.6	1.3	.7	.1	.0	.0	36	.5	2.2
4	.0	.0	.3	.4	1.7	.6	.0	.0	.0	41	.4	2.7
3	.0	.1	.3	1.3	2.7	.8	.0	.0	.0	71	.4	4.9
2	.0	.1	.4	2.7	3.6	.5	.0	.0	.0	99	.6	6.8
1	.0	.1	.6	3.0	3.7	.5	.1	.1	.0	110	.7	7.4
0	.0	.1	1.2	6.5	3.6	.4	.1	.0	.0	158	.6	11.1
-1	.0	.3	2.4	4.5	2.0	.5	.0	.0	.0	130	1.1	8.5
-2	.0	.5	2.6	5.6	1.6	.1	.0	.0	.0	141	.4	10.1
-3	.0	.4	3.8	2.5	1.3	.0	.0	.0	.0	108	.2	7.6
-4	.1	.6	3.3	4.2	.9	.0	.0	.0	.0	121	.2	8.8
-5	.0	.7	3.7	2.3	1.0	.0	.0	.0	.0	103	.4	7.3
-6	.0	.4	1.5	1.0	.1	.0	.0	.0	.0	41	.1	3.0
-7/-8	.2	1.6	2.9	1.6	.1	.0	.0	.0	.0	87	.1	6.3
-9/-10	.1	.9	1.2	.3	.0	.0	.0	.0	.0	33	.0	2.4
-11/-13	.3	.2	.6	.0	.0	.0	.0	.0	.0	15	.0	1.1
-14/-16	.1	.2	.0	.0	.0	.0	.0	.0	.0	4	.0	.3
TOTAL	10	82	333	501	331	76	13	1	1	1348	80	1268
PCT	.7	6.1	24.7	37.2	24.6	5.6	1.0	.1	.1	100.0	5.9	94.1

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.0	2.5	1.8	.0	.0	.0	4.3
3-4	.0	1.5	4.1	.0	.0	.0	5.6
5-6	.0	.0	1.5	.2	.0	.0	1.7
7	.0	.0	1.5	1.5	.2	.0	3.2
8-9	.0	.0	.0	.7	.0	.0	.7
10-11	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.6	.0	.0	.6
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
TOT PCT	.0	4.7	8.9	3.7	.2	.0	17.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.2	3.2	.6	.0	.0	.0	4.0
3-4	.0	1.1	2.3	.0	.0	.0	3.4
5-6	.0	.0	.8	.0	.2	.0	1.1
7	.0	.0	.3	.0	.1	.0	.3
8-9	.0	.0	.5	.1	.0	.0	.5
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.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
TOT PCT	.2	4.5	4.4	.3	.3	.0	9.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.8	.0	.0	.0	.0	1.7
1-2	.0	2.1	.0	.0	.0	.0	2.1
3-4	.2	.6	.8	.0	.0	.0	1.7
5-6	.0	.6	.6	.0	.0	.0	1.2
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.2	.2	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.5	.0	.0	.5
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
TOT PCT	1.1	4.2	1.9	.2	.7	.0	8.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.1	1.9	.0	.0	.0	.0	1.9
3-4	.0	1.1	.9	.0	.0	.0	2.0
5-6	.0	.5	1.0	.0	.0	.0	1.5
7	.0	.0	.5	.6	.0	.0	1.1
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.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
TOT PCT	.1	3.6	2.5	.8	.0	.0	6.9

PERIOD: (OVER-ALL) 1963-1972

SEPTEMBER

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.0	.0	.0	.0	.0	1.5
1-2	.2	1.6	.4	.0	.0	.0	2.2
3-4	.0	1.9	4.7	.0	.0	.0	6.6
5-6	.0	.2	1.6	1.3	.0	.0	3.2
7	.0	.2	1.6	.8	.0	.0	2.6
8-9	.0	.0	.3	.3	.0	.0	.7
10-11	.0	.0	.5	.0	.2	.0	.7
12	.0	.0	.5	.2	.0	.0	.7
13-16	.0	.0	.6	.6	.0	.0	1.2
17-19	.0	.0	.0	.0	.2	.0	.2
20-22	.0	.0	.0	.2	.2	.0	.5
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
TOT PCT	.6	4.9	10.2	3.6	.6	.0	19.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.2	1.0	1.0	.0	.0	.0	2.1
3-4	.0	1.5	1.2	1.0	.0	.0	3.7
5-6	.0	.2	1.9	1.0	.5	.0	3.6
7	.0	.1	1.2	.6	.0	.0	1.9
8-9	.0	.0	.7	1.2	.2	.0	2.2
10-11	.0	.0	.0	1.1	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.1	.2	.0	.3
17-19	.0	.0	.0	.0	.1	.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
TOT PCT	.2	2.9	6.1	5.0	1.0	.0	15.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.2	.2	.0	.0	.0	1.1
1-2	.2	1.9	.7	.0	.0	.0	2.8
3-4	.2	.8	1.7	.2	.0	.0	2.9
5-6	.0	.0	2.7	.2	.0	.0	2.8
7	.0	.0	1.2	.2	.0	.0	1.4
8-9	.0	.0	.2	.2	.0	.0	.5
10-11	.0	.0	.0	.7	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.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
TOT PCT	1.0	2.9	6.7	1.6	.0	.0	12.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	1.0	.0	.0	.0	.0	1.5	
1-2	.2	2.3	.3	.0	.0	.0	2.9	
3-4	.1	.3	1.1	.0	.0	.0	1.5	
5-6	.0	.5	.9	.2	.0	.0	1.6	
7	.0	.0	.3	.1	.0	.0	.4	
8-9	.0	.0	.0	.2	.0	.0	.2	
10-11	.0	.0	.2	.0	.2	.0	.5	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.1	.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	
TOT PCT	.8	4.1	2.9	.6	.2	.0	8.6	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.5	4.5	.2	.0	.0	.0	9.2	
1-2	1.1	16.4	4.7	.0	.0	.0	22.2	
3-4	.7	8.7	16.8	1.1	.0	.0	27.4	
5-6	.0	2.0	11.0	2.9	.7	.0	16.6	
7	.0	.2	7.0	3.8	.2	.0	11.2	
8-9	.0	.0	1.8	2.9	.4	.0	5.2	
10-11	.0	.0	.7	2.5	.4	.0	3.6	
12	.0	.0	.4	.7	.0	.0	1.1	
13-16	.0	.0	.7	1.6	.7	.0	2.9	
17-19	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.2	.2	.0	.4	
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	446
TOT PCT	6.3	31.8	43.3	15.7	2.9	.0	100.0	

PERIOD: (OVER-ALL) 1949-1972

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	1.4	7.6	13.0	5.6	4.1	1.2	.6	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	177	4
6-7	.0	1.4	6.6	7.6	7.0	2.7	2.7	.8	2.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	161	6
8-9	.0	.2	.8	1.7	3.1	2.9	3.1	1.2	2.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	81	9
10-11	.0	.4	.0	1.0	1.6	2.1	1.6	.4	1.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	43	9
12-13	.0	.0	.0	.6	.2	.2	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8
>13	.0	.0	.0	.0	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
INDET	1.9	2.9	.6	1.6	.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	3
TOTAL	17	64	108	93	86	50	43	16	32	3	2	1	0	0	0	0	0	0	0	315	6
PCT	3.3	12.4	21.0	18.1	16.7	9.7	8.3	3.1	6.2	.6	.4	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.7	1.3	1.7	.0	.0	.0	.8	6.0	1.2	5.1	6.0	.0	4.1	.0	78.1
NE	3.5	1.4	2.3	.0	.0	.0	.2	7.3	1.1	3.2	4.0	.0	4.4	.0	80.5
E	6.2	.9	.7	.0	.0	.0	.5	8.3	.7	1.4	5.7	.0	1.1	.0	83.6
SE	4.1	3.3	5.4	.0	.0	.0	.1	12.9	1.3	1.6	4.0	.0	1.3	.0	80.0
S	5.3	5.9	1.1	.0	.0	.0	.0	12.3	2.5	1.8	4.8	.0	1.8	.0	77.4
SW	3.2	4.4	1.0	.0	.0	.0	.0	8.2	2.1	3.4	1.6	.0	.9	.0	84.6
W	2.6	3.6	.8	.0	.0	.0	.0	6.9	2.0	7.3	3.0	.0	3.6	.0	77.9
NW	3.1	1.8	.4	.0	.0	.0	.0	5.3	1.3	7.3	5.1	.0	4.0	.0	77.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.7	.0	.0	.0	.0	.0	.0	5.7	.0	.0	2.9	.0	25.7	.0	65.7
TOT PCT	3.9	2.9	1.7	.0	.0	.0	.2	8.7	1.6	3.5	4.3	.0	3.2	.0	79.5
TOT OBS:	1733														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.0	2.0	2.0	.0	.0	.0	.6	8.1	2.0	.0	4.0	.0	4.6	.0	81.2
06&09	3.3	1.7	2.4	.0	.0	.0	.2	7.3	1.1	2.6	4.4	.0	3.5	.2	81.3
12&15	5.1	4.1	1.5	.0	.0	.0	.0	10.7	2.3	6.9	2.8	.0	1.8	.0	77.3
18&21	4.2	4.2	1.2	.0	.0	.0	.2	9.7	1.0	4.9	5.7	.0	3.0	.0	76.3
TOT PCT	4.1	3.0	1.8	.0	.0	.0	.2	8.9	1.5	3.7	4.4	.0	3.2	.1	79.0
TOT OBS:	1789														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	6.4	7.6	1.9	.4	.0		17.4	13.1	25.2	15.1	12.6	16.8	16.1	22.7	20.7	14.3
NE	1.2	7.4	7.1	1.2	.1	.0		17.0	11.5	13.3	14.7	25.1	20.4	22.1	16.5	13.4	8.8
E	.7	4.6	2.0	.5	*	.0		7.8	9.6	7.6	7.2	12.0	10.3	6.8	5.8	6.2	4.8
SE	1.2	5.3	3.9	.6	.2	*		11.3	11.1	7.0	12.8	11.7	13.7	12.3	13.8	8.5	7.3
S	1.1	6.5	7.6	2.5	.7	.1		18.5	14.1	14.6	20.1	20.0	19.4	19.5	14.9	16.6	20.8
SW	.8	4.4	4.5	1.7	.4	*		11.9	14.1	15.0	12.6	8.5	8.6	11.6	10.9	15.6	14.1
W	1.0	2.5	2.4	1.1	.2	.0		7.2	13.2	7.2	7.3	4.4	4.7	5.5	8.7	8.0	12.5
NW	.7	2.7	2.8	.4	.1	.0		6.7	11.6	9.2	7.1	4.9	4.2	4.5	5.5	9.0	10.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0	.8	3.1	.8	1.8	1.6	1.3	2.0	6.7
TOT OBS	249	966	922	239	53	3	2432		12.2	128	390	362	382	191	312	398	269
TOT PCT	10.2	39.7	37.9	9.8	2.2	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.7	8.4	4.5	.9	*		17.4	13.1	17.6	14.8	20.2	18.1
NE	4.5	8.8	3.4	.4	*		17.0	11.5	14.3	22.7	18.6	11.5
E	2.7	4.2	.7	.1	.0		7.8	9.6	7.3	11.2	6.2	5.7
SE	3.0	6.1	1.7	.4	.1		11.3	11.1	11.4	12.7	13.2	8.1
S	4.3	7.5	5.1	1.3	.3		18.5	14.1	18.8	19.7	16.7	18.3
SW	2.4	5.2	3.4	.7	.2		11.9	14.1	13.2	8.5	11.2	15.0
W	1.9	2.9	1.8	.5	.1		7.2	13.2	7.3	4.5	7.5	9.8
NW	1.8	3.4	1.2	.3	.0		6.7	11.6	7.6	4.5	5.1	9.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.3						2.3	.0	2.5	1.3	1.4	3.9
TOT OBS	645	1132	527	111	17	2432		12.2	518	744	503	667
TOT PCT	26.5	46.5	21.7	4.6	.7		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.5	9.7	38.8	35.9	9.5	3.5	.2	12.4	100.0	518
06&09	1.3	6.5	40.5	40.9	9.3	1.6	.0	12.3	100.0	744
12&15	1.4	5.8	41.7	39.0	10.1	1.8	.2	12.6	100.0	503
18&21	3.9	9.9	38.1	35.4	10.5	2.1	.1	11.8	100.0	667
TOT	56	193	966	922	239	53	3	12.2		2432
PCT	2.3	7.9	39.7	37.9	9.8	2.2	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.7	3.2	4.7	4.7		4.3
NE	7.1	2.8	4.9	3.5		4.1
E	2.8	1.4	3.3	.7		4.1
SE	2.3	1.6	2.1	2.5		4.8
S	3.6	3.9	7.6	4.2		5.0
SW	3.3	2.2	4.9	2.1		4.6
W	3.9	.9	1.5	.5		2.9
NW	3.1	.9	.8	1.4		3.5
VAR	.0	.0	.0	.0		.0
CALM	.9	.2	.0	.0		1.0
TOT OBS	179	91	158	104	532	4.3
TOT PCT	33.6	17.1	29.7	19.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.6	2.0	1.0	.8	.5	.1	.0	13.3	
NE	*	.0	.0	.8	2.2	1.1	.8	.4	*	.4	12.7	
E	.1	.0	.0	.4	1.2	.5	.2	.0	.0	.1	5.6	
SE	.0	.0	.4	.8	1.6	.9	.0	.0	.0	*	4.8	
S	.0	.0	.1	3.1	3.5	1.7	.5	.0	.0	.2	10.1	
SW	.2	.0	.2	1.3	2.3	.9	.5	.0	.0	.0	7.0	
W	.0	.0	.0	.7	.2	.1	.0	.0	.0	.0	5.7	
NW	.0	.0	.0	.6	.4	*	.0	*	.0	.0	5.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
TOT OBS	2	0	4	49	71	34	14	5	1	4	348	532
TOT PCT	.4	.0	.8	9.2	13.3	6.4	2.6	.9	.2	.8	65.4	100.0

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 >500YD	= OR >0
= OR >6500	.6	.9	.9	.9	.9	.9	.9	.9
= OR >5000	1.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >3500	3.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6
= OR >2000	9.0	11.1	11.1	11.1	11.1	11.1	11.1	11.1
= OR >1000	19.4	23.8	23.8	24.0	24.0	24.0	24.0	24.0
= OR >600	24.5	32.1	32.8	33.0	33.2	33.2	33.2	33.2
= OR >300	24.7	32.7	33.4	33.8	33.9	33.9	33.9	33.9
= OR >150	24.7	32.7	33.4	33.8	33.9	33.9	33.9	33.9
= OR > 0	25.1	33.2	33.9	34.3	34.5	34.5	34.5	34.5
TOTAL	136	180	184	186	187	187	187	187

TOTAL NUMBER OF OBS: 542

PCT FREQ NH <5/8: 65.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
12.6	16.8	12.9	13.1	9.7	6.7	6.4	8.0	13.5	.3	659

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.4	.3	*	.2	.3	.1	.1	.2	.0	.0	1.6	
	TOT %	.4	.3	*	.2	.4	.1	.1	.2	.0	.0	1.7	
1<2	PCP	.1	.1	*	.1	.3	.0	.0	.0	.0	.0	.5	
	NO PCP	.7	.3	.1	.1	.1	.1	.2	.3	.0	.0	1.9	
	TOT %	.8	.4	.1	.2	.3	.1	.2	.3	.0	.0	2.4	
2<5	PCP	*	*	.1	.2	.2	.1	.1	*	.0	.0	.9	
	NO PCP	.2	.4	.3	.1	1.1	*	.0	.1	.0	.2	2.5	
	TOT %	.2	.4	.5	.3	1.3	.2	.1	.1	.0	.2	3.4	
5<10	PCP	.8	.6	.3	1.0	1.4	.5	.3	.2	.0	.0	5.0	
	NO PCP	6.1	5.5	2.5	4.3	6.3	4.0	3.0	2.3	.0	.5	34.4	
	TOT %	6.9	6.1	2.8	5.3	7.7	4.5	3.3	2.5	.0	.5	39.4	
10+	PCP	.2	.5	.1	.1	.5	.3	.1	.1	.0	.1	2.1	
	NO PCP	9.0	8.7	4.6	4.9	9.7	6.1	3.6	3.2	.0	1.3	51.0	
	TOT %	9.2	9.2	4.7	5.0	10.2	6.4	3.7	3.3	.0	1.4	53.2	
	TOT OBS												1727
	TOT PCT	17.4	16.4	8.2	11.0	20.0	11.2	7.3	6.5	.0	2.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.2	.1	*	*	*	.1	.1	.2	.0		.6	
	11-21	.1	.1	.0	.1	.2	.0	.0	*	.0		.6	
	22+	.0	.1	.0	*	.1	.0	.0	.0	.0		.2	
	TOT %	.4	.3	*	.2	.4	.1	.1	.2	.0	.0	1.5	
1<2	0-3	.1	.0	.0	.0	.0	.0	.1	*	.0	.0	.2	
	4-10	*	.1	.1	.1	.2	*	.1	.0	.0		.6	
	11-21	.3	.1	.0	.1	.2	*	*	.1	.0		.8	
	22+	.3	.1	*	.1	.1	.0	.0	.2	.0		.8	
	TOT %	.7	.3	.1	.3	.4	.1	.2	.3	.0	.0	2.3	
2<5	0-3	.1	.1	.2	.1	.2	.0	.0	.1	.0	.2	.8	
	4-10	.2	.3	.2	.2	.6	.1	.0	.0	.0		1.6	
	11-21	.2	.2	.0	.1	.4	.1	.0	.1	.0		1.1	
	22+	.1	.1	*	*	.2	*	.1	.0	.0		.5	
	TOT %	.4	.7	.5	.4	1.4	.2	.1	.2	.0	.2	3.9	
5<10	0-3	.2	.3	.2	.4	.3	.4	.5	.3	.0	.4	3.0	
	4-10	1.9	2.0	1.4	1.8	1.9	1.1	.9	1.0	.0		12.1	
	11-21	3.2	3.1	1.0	2.4	3.2	1.7	1.1	.9	.0		16.7	
	22+	1.0	.4	*	.2	1.7	1.0	.5	.1	.0		5.0	
	TOT %	6.4	5.8	2.7	4.8	7.1	4.2	3.1	2.3	.0	.4	36.7	
10+	0-3	.8	.9	.4	.7	.8	.5	.5	.4	.0	1.6	6.6	
	4-10	3.5	4.5	3.0	2.8	4.0	2.9	1.5	1.2	.0		23.3	
	11-21	4.3	3.9	1.3	1.5	4.1	2.8	1.6	1.6	.0		21.1	
	22+	.8	.5	.2	.3	1.0	.7	.8	.2	.0		4.5	
	TOT %	9.4	9.8	4.9	5.3	9.9	6.9	4.3	3.4	.0	1.6	55.5	
	TOT OBS												1925
	TOT PCT	17.3	16.8	8.2	10.9	19.1	11.4	7.7	6.4	.0	2.2	100.0	

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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
00&03	.0	.0	.0	10.0	11.6	5.0	2.9	.7	.0	.0	32.1	67.9	140
06&09	.0	.0	.7	8.6	9.9	4.0	4.6	.7	.7	.7	29.8	70.2	151
12&15	1.1	.0	.6	8.0	12.5	6.8	.6	1.7	.0	1.1	32.4	67.6	176
18&21	.7	.0	1.3	6.0	10.6	6.6	1.3	.7	.0	.7	27.8	72.2	151
TOT	3	0	4	50	72	35	14	6	1	4	189	429	618
PCT	.5	.0	.6	8.1	11.7	5.7	2.3	1.0	.2	.6	30.6	69.4	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
00&03	.0	2.4	2.2	2.4	30.1	62.9	369
06&09	.0	1.4	2.9	6.6	42.2	46.9	625
12&15	.0	.2	1.2	1.6	33.6	63.4	432
18&21	.0	2.0	2.3	3.4	38.2	54.1	555
TOT	0	30	44	76	732	1099	1981
PCT	.0	1.5	2.2	3.8	37.0	55.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.0	11.7	25.8	62.5	120
06&09	.0	2.3	12.4	23.3	64.3	129
12&15	1.2	1.8	10.2	23.5	66.3	166
18&21	.8	2.4	9.4	22.8	67.7	127
TOT	3	9	59	129	354	542
PCT	.6	1.7	10.9	23.8	65.3	100.0

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
80/84	.1	.0	.0	.0	.0	.0	.0	.0	1	.1
75/79	.0	.1	.0	.5	.5	.6	.2	.0	22	1.7
70/74	.0	.1	.3	.5	1.6	3.4	3.2	1.9	138	10.9
65/69	.0	.3	.8	1.8	4.3	8.8	11.7	11.0	490	38.6
60/64	.0	.1	.7	2.9	9.0	11.2	9.6	4.8	486	38.3
55/59	.0	.0	.2	.9	1.7	3.2	2.7	.9	120	9.5
50/54	.0	.0	.0	.2	.1	.2	.4	.0	11	.9
TOTAL	1	7	25	85	216	347	351	236	1268	100.0
PCT	.1	.6	2.0	6.7	17.0	27.4	27.7	18.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.1	*	.0	.0	.0	.0
	.2	.4	.2	.1	.2	.2	.0	.2	.0	.2
	3.6	2.3	.9	.4	.8	.9	.5	1.1	.0	.5
	11.0	8.7	3.3	3.2	3.9	2.5	2.2	3.1	.0	.8
	2.6	5.3	3.6	6.0	10.5	5.0	2.6	1.7	.0	.9
	.1	*	.2	1.1	3.6	2.2	1.7	.4	.0	.2
	.0	.0	.1	.0	.2	.2	.3	.1	.0	.0
	17.5	16.7	8.2	10.8	19.2	11.0	7.2	6.7	.0	2.7

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	80	77	74	66	59	55	52	66.2	514
06&09	78	76	72	65	59	55	52	65.3	743
12&15	73	72	70	64	58	55	50	63.9	513
18&21	73	72	69	63	56	53	52	63.1	676
TOT	80	75	72	64	58	54	50	64.6	2446

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	.4	14.6	18.3	28.4	25.4	13.1	74	268
06&09	.0	8.6	19.0	28.4	25.9	18.0	77	394
12&15	.0	7.7	17.8	26.6	25.2	22.7	78	286
18&21	.0	6.9	13.5	26.0	32.6	21.0	79	362
TOT	1	120	224	358	360	247	77	1310

OCTOBER

AREA 0007 SYDNEY
33.3S 152.3E

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1861-1972

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.1	.1	.0	.1	3	.0	.2
11/13	.0	.0	.0	.0	.2	.1	.2	.0	5	.0	.4
9/10	.0	.0	.0	.0	.2	.2	.3	.1	9	.1	.6
7/8	.0	.0	.0	.2	.1	.5	.2	.0	13	.0	1.0
6	.0	.0	.0	.1	.2	.8	.2	.0	17	.2	1.1
5	.0	.0	.0	.1	.8	.9	.0	.0	23	.3	1.4
4	.0	.0	.1	.2	1.6	1.8	.4	.0	34	.2	3.9
3	.0	.0	.1	1.1	1.7	1.3	.2	.0	58	.2	4.2
2	.0	.0	.2	1.1	3.9	2.3	.1	.0	99	.6	6.9
1	.0	.0	.3	1.4	5.6	1.4	.1	.0	115	.7	8.0
0	.0	.0	.9	5.7	7.6	1.6	.1	.0	210	.7	15.2
-1	.0	.0	.7	5.1	4.2	1.1	.1	.0	146	.5	10.5
-2	.0	.1	1.9	6.4	3.3	.5	.0	.0	161	.8	11.3
-3	.0	.2	1.2	3.5	2.3	.5	.0	.0	102	.5	7.3
-4	.0	.2	1.8	3.6	1.8	.0	.0	.0	97	.3	7.0
-5	.0	.4	2.3	2.7	1.0	.1	.0	.0	85	.2	6.2
-6	.0	.3	1.4	1.5	.3	.0	.0	.0	46	.3	3.2
-7/-8	.1	.3	1.4	1.1	.5	.1	.0	.0	46	.1	3.4
-9/-10	.2	.2	.8	.3	.1	.0	.0	.0	21	.0	1.6
-11/-13	.0	.2	.6	.1	.0	.0	.0	.0	11	.0	.8
-14/-16	.0	.1	.0	.0	.1	.0	.0	.0	2	.0	.2
TOTAL	3	25	181	451	465	173	23	2	1323	74	1249
PCT	.2	1.9	13.7	34.1	35.1	13.1	1.7	.2	100.0	5.6	94.4

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.9	.0	.0	.0	.0	1.2
1-2	.0	3.5	.9	.0	.0	.0	4.4
3-4	.0	1.7	4.9	.0	.0	.0	6.6
5-6	.0	.5	2.4	.7	.0	.0	3.6
7	.0	.2	1.7	.7	.0	.0	2.5
8-9	.0	.0	.0	.7	.0	.0	.7
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.2	.0	.2	.0	.0	.5
17-19	.0	.0	.0	.0	.2	.0	.2
20-22	.0	.0	.0	.0	.2	.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
TOT PCT	.2	7.0	10.1	2.5	.5	.0	20.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.7	.0	.0	.0	.0	1.7
1-2	.0	3.9	1.9	.0	.0	.0	5.7
3-4	.0	1.9	3.0	.0	.0	.0	4.9
5-6	.0	.3	2.1	.0	.0	.0	2.4
7	.0	.0	.4	.6	.0	.0	.9
8-9	.0	.0	.2	.5	.2	.0	.9
10-11	.0	.0	.1	.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
TOT PCT	.0	7.7	7.6	1.5	.2	.0	17.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.9	.2	.0	.0	.0	1.5
1-2	.0	2.9	.0	.0	.0	.0	2.9
3-4	.0	.9	1.5	.0	.0	.0	2.4
5-6	.0	.4	.4	.0	.0	.0	.8
7	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	5.1	2.1	.4	.0	.0	8.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.4
1-2	.0	3.1	.7	.0	.0	.0	3.8
3-4	.0	.5	1.5	.0	.0	.0	2.1
5-6	.0	.3	1.8	.0	.0	.0	2.1
7	.0	.0	.9	.4	.0	.0	1.3
8-9	.0	.0	.2	.1	.0	.0	.3
10-11	.0	.0	.1	.5	.0	.0	.5
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.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
TOT PCT	.1	4.3	5.2	1.0	.0	.0	10.6

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.5	2.4	1.5	.0	.0	.0	4.4
3-4	.0	1.5	2.4	.2	.0	.0	4.1
5-6	.0	.7	4.7	1.1	.0	.0	6.5
7	.0	.0	.4	1.2	.0	.0	1.7
8-9	.0	.0	.7	.2	.0	.0	.9
10-11	.0	.0	.6	.2	.0	.0	.8
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.6	.0	.0	.6
17-19	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.2	.0	.2
23-25	.0	.0	.0	.0	.2	.0	.2
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
TOT PCT	.5	5.3	10.2	4.1	.5	.0	20.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5
1-2	.0	1.3	.7	.0	.0	.0	2.0
3-4	.0	1.3	1.7	.2	.0	.0	3.2
5-6	.0	.0	1.7	.8	.0	.0	2.5
7	.0	.0	1.0	.6	.0	.0	1.6
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.1	.2	.2	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.2	.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	.2	.0	.0	.2
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
TOT PCT	.2	2.9	5.2	2.2	.5	.0	11.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2
1-2	.2	.9	.0	.0	.0	.0	1.1
3-4	.0	1.1	1.2	.0	.0	.0	2.4
5-6	.0	.0	.2	.2	.0	.0	.4
7	.0	.0	.2	.2	.0	.0	.4
8-9	.0	.0	.4	.2	.2	.0	.9
10-11	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.5	.0	.0	.5
13-16	.0	.0	.0	.0	.2	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.2	.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
TOT PCT	.5	2.0	2.1	1.5	.7	.0	6.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.3	.0	.0	.0	.0	.5	
1-2	.0	.5	.2	.0	.0	.0	.7	
3-4	.0	.3	.8	.0	.0	.0	1.1	
5-6	.0	.0	1.0	.0	.0	.0	1.0	
7	.0	.1	.2	.0	.0	.0	.2	
8-9	.0	.0	.2	.1	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.2	.0	.2	
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	
TOT PCT	.2	1.1	2.5	.1	.2	.0	4.1	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.5	5.3	.2	.0	.0	.0	9.1	
1-2	1.2	18.4	5.8	.0	.0	.0	25.3	
3-4	.0	9.1	16.7	.5	.0	.0	26.3	
5-6	.2	2.1	14.0	2.8	.0	.0	19.1	
7	.0	.2	4.7	3.7	.0	.0	8.6	
8-9	.0	.0	1.9	1.9	.5	.0	4.2	
10-11	.0	.0	.9	1.9	.2	.0	3.0	
12	.0	.0	.0	.9	.0	.0	.9	
13-16	.0	.2	.0	.9	.5	.0	1.6	
17-19	.0	.0	.0	.2	.5	.0	.7	
20-22	.0	.0	.0	.0	.7	.0	.7	
23-25	.0	.0	.0	.2	.2	.0	.5	
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	
TOT PCT	4.9	35.3	44.2	13.0	2.6	.0	100.0	430

TABLE 19

PERIOD: (OVER-ALL) 1949-1972

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	6.5	10.9	6.5	4.2	1.3	.2	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	166	4
6-7	.0	.2	6.7	7.9	7.1	4.6	2.1	.8	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	158	6
8-9	.0	.2	2.7	4.4	4.6	2.9	2.3	.6	1.7	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	104	8
10-11	.0	.2	1.1	.8	1.3	1.5	.4	.2	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	8
12-13	.0	.0	.4	.4	.8	.0	.4	.6	.0	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	16	10
>13	.0	.0	.0	.2	.2	.2	.8	.4	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	11	11
INDET	.4	.8	1.1	1.0	1.0	.6	.4	.0	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	33	7
TOTAL	10	41	120	110	100	58	34	15	20	6	6	1	1	0	0	0	0	0	0	522	6
PCT	1.9	7.9	23.0	21.1	19.2	11.1	6.5	2.9	3.8	1.1	1.1	.2	.2	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	3.2	3.3	.7	.0	.0	.0	.0	7.2	.9	4.7	7.7	.0	6.3	.3	73.9
NE	4.1	.2	1.5	.0	.0	.0	.3	5.8	.1	2.2	7.3	.0	8.4	.0	76.3
E	6.0	3.9	3.0	.0	.0	.0	.0	12.9	3.4	2.4	1.9	.0	2.5	.0	78.2
SE	4.9	5.4	1.6	.0	.0	.0	.0	11.4	.6	2.5	1.5	.0	3.2	.0	81.1
S	3.7	5.5	2.1	.0	.0	.0	.0	11.3	2.7	2.0	3.0	.0	1.4	.0	80.4
SW	8.9	2.9	.9	.0	.0	.0	.0	12.7	3.2	2.6	2.9	.0	1.9	.0	77.9
W	2.9	.0	.0	.0	.0	.0	.0	2.9	.7	2.9	5.3	.0	7.2	.0	81.0
NW	3.7	1.4	2.5	.0	.0	.0	.0	7.6	1.1	8.7	11.0	.0	5.9	.0	67.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.3	1.6	3.2	.0	.0	.0	.0	16.1	.0	.0	3.2	.0	4.8	.0	75.8
TOT PCT	4.9	3.0	1.6	.0	.0	.0	.1	9.4	1.5	3.0	4.9	.0	4.5	.1	77.3
TOT OBS:	1826														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00&03	3.8	1.9	2.2	.0	.0	.0	.0	7.8	1.3	.5	3.2	.0	5.4	.0	81.9
06&09	4.9	2.5	1.4	.0	.0	.0	.2	8.9	.7	2.0	6.0	.0	7.4	.2	75.7
12&15	4.5	2.3	2.3	.0	.0	.0	.0	8.8	2.0	6.5	3.5	.0	2.5	.0	77.6
18&21	5.5	4.6	.9	.0	.0	.0	.0	10.9	2.0	3.1	5.8	.0	3.3	.0	75.4
TOT PCT	4.8	2.9	1.6	.0	.0	.0	.1	9.3	1.5	3.0	4.9	.0	4.8	.1	77.2
TOT OBS:	1868														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	5.6	7.3	1.9	.3	.0		16.1	13.5	19.5	15.2	13.5	13.0	18.6	17.1	18.2	17.0
NE	1.5	7.6	8.2	1.2	*	.0		18.6	11.6	11.9	17.0	27.9	26.0	18.2	19.2	12.7	10.7
E	1.2	5.0	2.5	.4	.1	.0		9.2	9.6	8.6	9.7	12.0	10.2	9.1	10.0	7.6	5.4
SE	1.0	6.5	4.2	.5	.1	.0		12.2	10.4	11.4	11.4	12.6	15.2	8.5	12.3	13.3	9.8
S	1.0	6.0	6.8	2.8	.5	.1		17.3	14.2	18.8	16.9	17.4	15.0	19.2	17.1	18.8	16.9
SW	1.1	4.2	3.9	1.8	.5	*		11.6	13.9	15.3	12.7	7.3	8.4	13.6	10.8	12.2	16.2
W	.9	2.3	1.8	.7	.2	.0		5.8	11.9	6.1	6.9	4.4	4.5	5.6	5.7	4.8	9.5
NW	.7	2.9	1.9	.4	.1	.0		6.0	10.4	7.7	5.5	3.5	3.6	5.8	5.8	9.1	7.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3							3.3	.0	.7	4.7	1.5	4.1	1.5	1.9	3.2	6.9
TOT OBS	301	1021	930	249	43	3	2547		11.8	136	405	340	418	206	321	431	290
TOT PCT	11.8	40.1	36.5	9.8	1.7	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)									HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.0	7.6	4.6	.8	.0		16.1	13.5	16.3	13.2	17.6	17.7
NE	4.4	9.7	4.3	.2	.0		18.6	11.6	15.8	26.8	18.8	11.9
E	3.4	4.6	.9	.3	.0		9.2	9.6	9.4	11.0	9.7	6.7
SE	3.5	6.8	1.7	.2	*		12.2	10.4	11.4	14.0	10.8	11.9
S	3.6	7.6	4.3	1.6	.2		17.3	14.2	17.3	16.1	17.9	18.0
SW	3.3	4.3	2.8	1.1	.2		11.6	13.9	13.4	7.9	11.9	13.8
W	1.8	2.3	1.4	.2	*		5.8	11.9	6.7	4.5	5.6	6.7
NW	2.1	2.9	.7	.2	.0		6.0	10.4	6.1	3.6	5.8	8.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.3						3.3	.0	3.7	2.9	1.7	4.7
TOT OBS	721	1169	530	116	11	2547		11.8	541	758	527	721
TOT PCT	28.3	45.9	20.8	4.6	.4		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	3.7	11.6	39.2	36.6	6.5	2.4	.0	11.3	100.0	541
06&09	2.9	7.7	37.9	38.7	10.8	1.7	.4	12.5	100.0	758
12&15	1.7	3.2	39.7	40.8	13.1	1.5	.0	13.0	100.0	527
18&21	4.7	10.8	43.4	31.1	8.7	1.2	.0	10.7	100.0	721
TOT	85	216	1021	930	249	43	3	11.8		2547
PCT	3.3	8.5	40.1	36.5	9.8	1.7	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.9	2.6	3.8	2.7		3.4
NE	6.6	1.1	4.0	4.1		4.2
E	2.4	1.8	2.2	3.3		4.8
SE	1.8	1.3	4.8	1.5		4.9
S	4.2	4.2	6.3	2.7		4.4
SW	4.7	3.1	4.8	2.2		4.3
W	3.7	1.4	1.0	1.2		3.2
NW	2.9	1.5	1.8	1.0		3.5
VAR	.0	.0	.0	.0		.0
CALM	1.0	.0	.0	.2		1.8
TOT OBS	206	99	167	110	582	4.1
TOT PCT	35.4	17.0	28.7	18.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.1	1.2	.6	.5	.0	.1	.2	13.4	
NE	.2	.0	.3	1.6	1.7	1.1	.7	.5	.0	.2	9.5	
E	.3	.0	.3	1.2	1.4	.6	.2	.2	.0	.0	5.5	
SE	.2	.2	.1	1.0	2.3	.6	.2	.2	.0	.2	4.6	
S	.0	.0	.0	1.8	4.1	1.6	.1	.2	.0	.2	9.5	
SW	.0	.0	.5	1.0	2.6	.4	.3	.0	.0	.3	9.8	
W	.0	.0	.0	.5	.4	.3	.2	.0	.0	.3	5.7	
NW	.0	.0	.0	.3	.9	.5	.2	.0	*	.6	4.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	1.0	
TOT OBS	4	1	8	49	85	33	13	6	1	11	371	582
TOT PCT	.7	.2	1.4	8.4	14.6	5.7	2.2	1.0	.2	1.9	63.7	100.0

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 >50YD	= OR >0
= OR >6500	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >5000	2.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0
= OR >3500	4.9	5.2	5.2	5.2	5.2	5.2	5.2	5.2
= OR >2000	9.3	10.8	11.1	11.1	11.1	11.1	11.1	11.1
= OR >1000	21.0	24.9	25.6	25.8	25.8	25.8	25.8	25.8
= OR >600	25.1	32.3	33.7	34.0	34.0	34.0	34.0	34.0
= OR >300	25.3	32.8	34.8	35.2	35.2	35.4	35.4	35.4
= OR >150	25.3	32.8	35.0	35.4	35.4	35.5	35.5	35.5
= OR > 0	25.8	33.5	35.7	36.0	36.0	36.2	36.2	36.2
TOTAL	153	199	212	214	214	215	215	215

TOTAL NUMBER OF OBS: 594

PCT FREQ NH <5/8: 63.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
18.4	17.8	11.2	10.3	6.3	7.0	8.9	6.6	13.0	.6	653

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.1	.0	*	*	.0	*	*	.0	.0	.3	
	TOT %	.1	.1	.0	*	*	.0	*	*	.0	.0	.3	
1/2<1	PCP	.2	.0	.0	*	.1	.1	.0	.1	.0	.0	.4	
	NO PCP	.5	.5	.1	.1	.4	.1	.2	.4	.0	.0	2.3	
	TOT %	.7	.5	.1	.1	.4	.1	.2	.4	.0	.0	2.7	
1<2	PCP	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.2	
	NO PCP	.5	1.1	.1	.3	.2	.2	.2	.4	.0	.1	3.1	
	TOT %	.5	1.2	.1	.3	.2	.4	.2	.4	.0	.1	3.3	
2<5	PCP	.1	.2	.2	.1	.4	.3	.0	.1	.0	.1	1.5	
	NO PCP	.3	.5	.1	.1	.4	.3	.2	.1	.0	.1	2.0	
	TOT %	.4	.7	.3	.2	.8	.6	.2	.1	.0	.1	3.5	
5<10	PCP	.7	.4	.8	.9	1.5	.7	.1	.2	.0	.1	5.3	
	NO PCP	6.6	6.9	3.0	4.1	7.6	4.1	1.8	2.0	.0	.3	36.4	
	TOT %	7.3	7.2	3.8	5.0	9.0	4.9	1.8	2.2	.0	.4	41.7	
10+	PCP	.2	.3	.1	.2	.1	.3	.1	.2	.0	.4	2.0	
	NO PCP	7.5	7.6	4.3	5.2	7.6	6.0	3.1	2.6	.0	2.4	46.5	
	TOT %	7.7	7.9	4.4	5.5	7.7	6.3	3.2	2.8	.0	2.8	48.5	
	TOT OBS												1824
	TOT PCT	16.7	17.7	8.7	11.2	18.2	12.3	5.6	6.0	.0	3.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.0	.0	.0	.0	*	*	.0		.2	
	11-21	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.0	*	*	.0	*	*	.0	.0	.3	
1/2<1	0-3	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.1	
	4-10	.1	.1	.1	.1	.1	*	*	.1	.0		.7	
	11-21	.4	.3	.1	*	*	.0	.1	.2	.0		1.2	
	22+	*	.1	.0	*	.3	*	.0	.1	.0		.5	
	TOT %	.6	.5	.1	.1	.4	.1	.2	.4	.0	.0	2.5	
1<2	0-3	*	.0	*	.1	*	.1	*	*	.0	*	.5	
	4-10	.1	.4	*	.2	.2	.1	.1	.1	.0		1.2	
	11-21	.2	.5	.0	.1	*	*	.0	.2	.0		1.1	
	22+	.1	.2	.0	.0	.0	*	.0	.0	.0		.3	
	TOT %	.5	1.1	.1	.4	.2	.3	.1	.4	.0	*	3.2	
2<5	0-3	*	.2	.1	.1	.1	*	.1	*	.0	.1	.9	
	4-10	.1	.3	.1	.1	.4	.2	.1	*	.0		1.3	
	11-21	.3	.2	.1	*	.1	.1	.0	*	.0		1.0	
	22+	.1	.1	.1	*	.1	.2	.0	.0	.0		.6	
	TOT %	.6	.8	.4	.3	.7	.6	.2	.1	.0	.1	3.8	
5<10	0-3	.5	.4	.7	.4	.6	.3	.4	.4	.0	.5	4.3	
	4-10	1.9	2.9	1.6	2.8	2.5	2.0	.7	.7	.0		15.0	
	11-21	2.9	3.1	.9	1.2	3.1	1.5	.5	.8	.0		14.0	
	22+	1.3	.6	.3	.3	2.1	.8	.2	.2	.0		6.0	
	TOT %	6.5	7.1	3.6	4.6	8.3	4.6	1.9	2.1	.0	.5	39.3	
10+	0-3	.4	.8	.4	.4	.4	.7	.4	.2	.0	2.8	6.4	
	4-10	2.9	3.3	2.7	3.2	3.1	2.4	1.4	1.5	.0		20.4	
	11-21	3.6	4.3	1.4	2.2	3.7	2.3	1.1	.8	.0		19.5	
	22+	.8	.3	.2	.1	1.1	1.3	.5	.2	.0		4.6	
	TOT %	7.6	8.8	4.8	5.9	8.3	6.7	3.4	2.7	.0	2.8	50.9	
	TOT OBS												2035
	TOT PCT	15.9	18.4	9.0	11.4	17.9	12.3	5.9	5.7	.0	3.4	100.0	

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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
00&03	.0	.7	.7	9.5	14.2	7.4	1.4	.0	.0	3.4	37.2	62.8	148
06&09	.8	.0	.8	8.5	12.4	7.0	3.9	1.6	.0	2.3	37.2	62.8	129
12&15	.5	.0	2.1	6.7	12.3	4.1	2.1	1.0	.0	.5	29.2	70.8	195
18&21	1.3	.0	1.3	6.9	16.3	4.4	1.3	1.3	.6	1.3	34.4	65.6	160
TOT	4	1	8	49	87	35	13	6	1	11	215	417	632
PCT	.6	.2	1.3	7.8	13.8	5.5	2.1	.9	.2	1.7	34.0	66.0	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
00&03	.5	3.1	1.5	5.4	39.7	49.7	390
06&09	.2	2.9	6.5	4.1	44.0	42.4	630
12&15	.2	1.1	1.8	1.8	33.6	61.5	447
18&21	.3	2.9	2.3	3.6	39.9	51.0	612
TOT	6	53	69	77	826	1048	2079
PCT	.3	2.5	3.3	3.7	39.7	50.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.4	14.8	24.6	60.6	142
06&09	.8	1.7	11.8	29.4	58.8	119
12&15	.5	2.7	9.7	21.0	69.4	186
18&21	1.4	2.7	10.9	26.5	62.6	147
TOT	4	13	69	148	377	594
PCT	.7	2.2	11.6	24.9	63.5	100.0

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
85/89	.0	.0	.1	.0	.0	.0	.0	.1	2	.2
80/84	.0	.3	.2	.0	.4	.0	.0	.1	13	1.0
75/79	.0	.1	.3	1.0	.9	1.7	.6	.2	60	4.7
70/74	.0	.2	.7	1.4	3.6	4.7	8.5	4.7	303	23.9
65/69	.0	.4	.6	3.4	6.1	11.0	14.4	9.7	578	45.6
60/64	.0	.0	.8	1.5	5.7	6.5	4.7	2.7	277	21.9
55/59	.0	.0	.0	.2	.5	.9	.6	.6	34	2.7
TOTAL	0	12	[illegible]	95	217	314	367	228	1267	100.0
PCT	.0	.9	2.7	7.5	17.1	24.8	29.0	18.0		

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	.2	.0	.0	.0
.1	.1	.0	.1	.0	.2	.4	.1	.0	.2
.9	1.2	.5	.3	.2	.4	.3	.2	.0	.7
7.4	5.5	1.7	1.2	1.7	1.8	1.4	2.0	.0	1.3
6.3	8.7	4.4	5.0	8.0	5.6	2.9	3.5	.0	1.2
.7	1.9	2.2	3.4	6.8	3.8	1.3	.4	.0	1.3
.0	*	.1	.1	.8	1.2	.3	.1	.0	.0
15.4	17.5	9.0	10.0	17.5	13.0	6.8	6.2	.0	4.7

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	85	79	77	69	61	58	55	69.0	525
06&09	85	80	75	68	62	59	55	67.8	751
12&15	79	74	72	66	60	57	56	66.3	528
18&21	81	74	72	66	60	57	55	65.8	716
TOT	85	78	74	67	60	57	55	67.2	2520

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	18.7	25.0	22.0	22.4	11.9	72	268
06&09	.0	10.4	17.9	24.3	29.3	18.1	76	375
12&15	.0	8.2	13.6	25.8	30.8	21.5	78	279
18&21	.0	8.3	13.1	25.3	32.8	20.5	78	375
TOT	0	143	221	317	379	237	76	1297

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PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1857-1972

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
14/16	.0	.0	.0	.0	.0	.2	.1	5	.0	.4
11/13	.0	.0	.0	.0	.1	.1	.1	4	.0	.3
9/10	.0	.0	.1	.1	.3	.4	.1	13	.0	1.0
7/8	.0	.0	.1	.3	.7	1.0	.4	33	.1	2.4
6	.0	.0	.0	.1	.9	.7	.2	26	.1	1.9
5	.0	.0	.2	.7	1.2	.5	.0	35	.1	2.5
4	.0	.0	.1	.9	2.2	1.0	.1	58	.7	3.7
3	.0	.0	.4	1.7	3.1	.7	.0	79	.4	5.5
2	.0	.1	.6	3.5	3.4	.7	.1	112	1.3	7.1
1	.0	.1	.4	4.0	3.6	.1	.0	109	.7	7.4
0	.0	.3	1.6	7.2	4.8	.4	.0	191	.9	13.4
-1	.0	.2	2.0	5.6	2.8	.1	.0	144	.4	10.4
-2	.0	.3	3.4	4.7	1.7	.2	.0	139	.4	10.0
-3	.1	.2	1.9	3.3	1.0	.0	.0	87	.4	6.1
-4	.0	.7	3.7	2.7	1.0	.1	.0	110	.2	8.0
-5	.0	.4	2.2	2.2	.3	.1	.0	69	.2	4.9
-6	.0	.5	1.8	1.2	.2	.0	.0	50	.0	3.7
-7/-8	.0	.6	1.6	.7	.0	.0	.0	40	.1	2.8
-9/-10	.1	.9	.4	.4	.0	.0	.0	23	.0	1.7
-11/-13	.1	.2	.1	.1	.0	.0	.0	6	.0	.4
TOTAL	3	62	276	526	366	85	16	1334	80	1254
PCT	.2	4.6	20.7	39.4	27.4	6.4	1.2	100.0	6.0	94.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.0	.0	.0	.0	1.0
1-2	.2	2.2	2.3	.0	.0	.0	4.7
3-4	.0	2.0	3.8	.2	.0	.0	6.0
5-6	.0	.0	1.9	.4	.0	.0	2.2
7	.0	.0	1.1	.2	.2	.0	1.6
8-9	.0	.0	.5	.2	.2	.0	.9
10-11	.0	.0	.0	.4	.2	.0	.5
12	.0	.0	.0	.2	.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
TOT PCT	.4	5.0	9.6	1.6	.6	.0	17.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	2.0	1.4	.0	.0	.0	3.4
3-4	.0	1.8	3.4	.0	.0	.0	5.2
5-6	.0	.1	2.4	.5	.1	.0	3.0
7	.0	.0	1.4	.2	.0	.0	1.6
8-9	.0	.0	.3	.1	.0	.0	.4
10-11	.0	.0	.0	.5	.1	.0	.5
12	.0	.0	.0	.2	.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
TOT PCT	.0	4.4	8.9	1.5	.1	.0	14.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4
1-2	.0	2.1	.2	.0	.0	.0	2.4
3-4	.0	1.2	2.5	.2	.0	.0	3.9
5-6	.0	.6	1.1	.2	.2	.0	2.1
7	.0	.0	.4	.4	.2	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.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
TOT PCT	.2	4.2	4.3	.9	.4	.0	10.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.0	.0	.0	.0	.9
1-2	.0	2.2	.7	.0	.0	.0	2.8
3-4	.0	1.1	2.7	.1	.0	.0	3.9
5-6	.0	.7	1.1	.0	.0	.0	1.8
7	.0	.0	.3	.1	.0	.0	.4
8-9	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.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
TOT PCT	.2	4.6	4.8	.4	.0	.0	10.0

PERIOD: (OVER-ALL) 1963-1972

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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.9	.0	.0	.0	.0	.9
1-2	.0	2.8	1.4	.0	.0	.0	4.3	.0	2.5	.8	.0	.0	.0	3.2
3-4	.0	2.4	3.8	.3	.0	.0	6.6	.0	.9	2.8	.8	.0	.0	4.4
5-6	.0	.3	1.8	.4	.0	.0	2.5	.0	.1	1.1	.5	.0	.0	1.8
7	.0	.2	1.8	.2	.4	.0	2.5	.0	.1	.1	.5	.9	.0	1.6
8-9	.0	.0	.4	.2	.0	.0	.7	.0	.0	.2	.4	.0	.0	.7
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.9	.0	.0	.9
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.2	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.0	.7
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.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	.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
TOT PCT	.0	6.2	9.2	1.8	.4	.0	17.6	.0	4.4	5.0	4.0	1.4	.0	14.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.2	.9	.0	.0	.0	.0	1.1	
1-2	.2	.9	.0	.0	.0	.0	1.1	.0	1.9	.3	.0	.0	.0	2.2	
3-4	.0	.4	1.3	.2	.0	.0	1.9	.0	1.1	2.2	.4	.0	.0	3.8	
5-6	.0	.0	.7	.2	.0	.0	.9	.0	.0	.2	.1	.0	.0	.2	
7	.0	.2	.4	.5	.0	.0	1.2	.0	.0	.3	.0	.0	.0	.3	
8-9	.0	.0	.2	.2	.2	.0	.6	.0	.0	.1	.3	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.2	.0	.0	.0	.2	.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	
TOT PCT	.2	2.0	2.8	1.0	.2	.0	6.3	.2	3.9	3.1	.8	.0	.0	8.0	98.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	5.0	.0	.0	.0	.0	7.6	
1-2	.4	16.8	6.9	.0	.0	.0	24.2	
3-4	.2	10.8	22.2	2.2	.0	.0	35.4	
5-6	.0	4.7	10.2	2.2	.2	.0	14.3	
7	.0	.4	5.8	2.2	1.7	.0	10.2	
8-9	.0	.0	1.7	1.5	.4	.0	3.7	
10-11	.0	.0	.0	2.2	.2	.0	2.4	
12	.0	.0	.2	.6	.2	.0	1.1	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.4	.2	.0	.6	
20-22	.0	.0	.0	.2	.0	.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	
								463
TOT PCT	3.2	34.8	47.1	11.9	3.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1972

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	7.7	13.6	6.2	4.4	.7	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	189	4
6-7	.0	.4	4.0	11.0	8.3	5.0	2.2	.9	.4	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	181	7
8-9	.0	.0	1.1	6.1	5.7	2.4	1.8	1.7	1.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	111	8
10-11	.0	.2	.6	.2	.4	1.5	.4	.4	.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	25	9
12-13	.0	.0	.2	.2	.0	.2	.6	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	10
>13	.0	.0	.0	.2	.2	.0	.4	.2	.0	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	8	14
INDET	1.3	.4	.6	.4	.2	.4	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	4
TOTAL	15	47	109	132	104	55	32	22	15	7	5	1	1	0	0	0	0	0	0	545	6
PCT	2.8	8.6	20.0	24.2	19.1	10.1	5.9	4.0	2.8	1.3	.9	.2	.2	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1905-1972
(OVER-ALL) 1857-1972

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.1	.9	1.4	.0	.0	.0	.0	6.4	.9	6.0	7.7	.0	5.0	.0		75.1
NE	1.7	1.2	.8	.0	.0	.0	.0	3.7	.6	2.1	5.5	.0	5.2	.0		83.4
E	2.5	1.5	.9	.0	.0	.0	.0	4.9	1.1	2.5	4.8	.0	1.6	.0		85.4
SE	5.2	3.5	1.1	.0	.0	.0	.0	9.8	.8	.4	4.2	.0	2.8	.0		81.9
S	4.5	5.6	2.2	.0	.0	.0	.2	12.5	1.2	3.3	2.0	.0	2.4	.0		80.1
SW	7.4	6.0	1.2	.0	.0	.0	.0	14.6	2.8	4.5	5.4	.0	1.0	.0		74.4
W	6.8	7.7	.9	.0	.0	.0	1.7	17.0	5.1	6.4	2.6	.0	6.8	.0		63.0
NW	4.8	2.6	4.3	.0	.0	.0	.0	11.7	.0	3.0	5.2	.0	2.6	.0		77.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	4.7	.0	4.7	.0	.0	.0	.0	9.3	.0	2.3	2.3	.0	7.0	.0		79.1
TOT PCT	4.0	3.0	1.5	.0	.0	.0	.1	8.6	1.2	3.2	4.7	.0	3.5	.0		79.7
TOT OBS:	1982															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.9	1.6	2.1	.0	.0	.0	.0	7.5	1.8	.5	3.6	.0	5.7	.0		81.3
06&09	4.6	1.9	.9	.0	.0	.0	.0	7.4	.1	1.6	5.0	.0	4.0	.0		82.4
12&15	5.3	3.5	1.3	.0	.0	.0	.2	10.3	.9	7.7	4.4	.0	2.0	.0		77.2
18&21	3.5	4.7	2.0	.0	.0	.0	.2	10.4	1.8	3.5	4.7	.0	2.5	.0		77.6
TOT PCT	4.3	3.0	1.5	.0	.0	.0	.1	8.9	1.1	3.3	4.5	.0	3.5	.0		79.8
TOT OBS:	2115															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	6.1	6.9	2.0	.1	.0		16.4	12.8	24.6	14.5	14.4	14.8	11.1	18.8	18.3	18.8
NE	1.5	10.5	8.8	.9	.1	.0		21.8	11.0	15.4	19.0	25.8	28.8	28.8	24.1	16.4	11.7
E	1.1	6.9	3.0	.4	*	.0		11.5	9.2	7.2	10.7	15.1	14.3	14.4	10.2	8.8	7.8
SE	1.5	7.1	3.9	.8	.1	*		13.5	10.5	15.6	13.4	15.4	14.9	8.5	12.0	14.0	12.3
S	1.0	7.4	8.0	2.9	.4	.1		20.0	14.0	16.2	20.5	19.0	16.5	24.1	19.8	23.0	20.8
SW	.9	3.2	2.7	1.4	.3	*		8.4	13.5	10.2	10.2	7.8	5.1	6.8	7.5	10.1	11.3
W	.6	1.4	.7	.3	.1	.0		3.1	10.1	1.6	5.2	1.4	1.9	3.1	2.6	3.0	5.7
NW	.5	1.3	1.0	.2	.0	.0		3.0	10.1	6.0	3.0	.3	1.5	2.8	3.9	4.1	5.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0	3.2	3.5	.7	2.2	.5	1.1	2.2	6.5
TOT OBS	291	1173	934	239	29	6	2672		11.5	125	430	416	455	200	349	404	293
TOT PCT	10.9	43.9	35.0	8.9	1.1	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.4	7.9	4.4	.6	.0		16.4	12.8	16.8	14.6	16.0	18.5
NE	5.4	12.2	3.9	.3	*		21.8	11.0	18.2	27.4	25.8	14.4
E	4.5	5.6	1.2	.1	.0		11.5	9.2	9.9	14.7	11.7	8.4
SE	4.5	6.7	1.9	.4	.1		13.5	10.5	13.9	15.2	10.7	13.3
S	4.0	9.0	5.6	1.0	.4		20.0	14.0	19.5	17.7	21.4	22.1
SW	1.9	3.8	2.0	.5	.1		8.4	13.5	10.2	6.4	7.2	10.6
W	1.4	1.2	.4	.2	.0		3.1	10.1	4.4	1.6	2.8	4.1
NW	1.1	1.2	.5	.1	.0		3.0	10.1	3.6	.9	3.5	4.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.0	3.4	1.5	.9	4.0
TOT OBS	765	1274	531	85	17	2672		11.5	955	871	549	697
TOT PCT	28.6	47.7	19.9	3.2	.6		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1905-1972
(OVER-ALL) 1857-1972

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	3.4	10.6	40.7	33.3	10.8	1.1	.0	11.4	100.0	555
06&09	1.5	7.8	45.0	35.9	8.5	.9	.3	11.6	100.0	871
12&15	.9	4.4	46.8	37.0	9.8	.9	.2	12.3	100.0	549
18&21	4.0	10.8	42.8	33.4	7.3	1.4	.3	10.9	100.0	697
TOT	65	226	1173	934	239	29	6	11.5		2672
PCT	2.4	8.5	43.9	35.0	8.9	1.1	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.1	3.8	4.2	2.9		4.0
NE	8.3	4.5	5.6	2.4		3.7
E	4.2	2.7	3.2	1.7		3.9
SE	2.6	3.0	3.1	2.9		4.7
S	5.7	3.1	8.0	7.0		5.2
SW	1.6	2.4	3.3	1.6		4.8
W	.0	.2	.7	.3		6.2
NW	.7	.1	1.4	.6		5.3
VAR	.0	.0	.0	.0		.0
CALM	.9	.4	.6	.0		3.2
TOT OBS	161	108	160	104	533	4.4
TOT PCT	30.2	20.3	30.0	19.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.3	.7	1.4	.9	.2	.1	.0	.1	13.2	
.0	.0	*	.9	2.4	1.7	.2	.2	.0	*	15.5	
.0	.0	.2	1.0	1.8	.5	.1	.0	.0	.0	8.2	
.0	.0	.2	.5	2.0	1.1	.6	.0	.0	.0	7.3	
.2	.4	.4	3.1	5.7	2.3	.3	.0	.0	.1	11.3	
.2	.0	.0	1.4	2.1	.3	.0	.0	.0	*	5.0	
.0	.0	.2	.2	.3	.3	.0	.0	.0	.0	.2	
.0	.0	.0	.4	.5	.6	.0	*	.0	.0	1.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	1.7	
2	2	7	43	86	43	7	2	0	2	339	533
.4	.4	1.3	8.1	16.1	8.1	1.3	.4	.0	.4	63.6	100.0

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 >50YD	= OR >0
= OR >6500	.2	.4	.4	.4	.4	.4	.4	.4
= OR >5000	.7	.9	.9	.9	.9	.9	.9	.9
= OR >3500	1.9	2.2	2.2	2.2	2.2	2.2	2.2	2.2
= OR >2000	8.7	10.4	10.6	10.6	10.6	10.6	10.6	10.6
= OR >1000	20.7	25.6	26.7	26.7	26.7	26.7	26.7	26.7
= OR >600	25.6	32.8	34.6	34.6	34.6	34.6	34.6	34.6
= OR >300	25.7	33.9	35.9	35.9	35.9	35.9	35.9	35.9
= OR >150	25.7	34.3	36.3	36.3	36.3	36.3	36.3	36.3
= OR > 0	26.1	34.6	36.7	36.7	36.7	36.7	36.7	36.7
TOTAL	141	187	198	198	198	198	198	198

TOTAL NUMBER OF OBS: 540 PCT FREQ NH <5/8: 63.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
13.4	15.1	14.1	9.8	9.6	5.8	7.1	9.1	15.9	.0	603

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PERIOD: (PRIMARY) 1905-1972
(OVER-ALL) 1857-1972

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.1	.0	.0	*	*	.0	.0	.0	.0	.2	
	NO PCP	.7	.5	.2	.3	.2	.1	.0	.1	.0	.0	2.1	
	TOT %	.7	.6	.2	.3	.2	.1	.0	.1	.0	.0	2.3	
1<2	PCP	.0	.0	.0	*	.1	.0	.0	.0	.0	.1	.2	
	NO PCP	.5	.5	.1	.3	.1	*	.0	.0	.0	.1	1.5	
	TOT %	.5	.5	.1	.3	.3	*	.0	.0	.0	.1	1.7	
2<5	PCP	.1	.1	.1	.1	.3	.1	.0	.1	.0	.1	.8	
	NO PCP	.2	.3	.2	.1	.6	.1	.1	.1	.0	.1	1.7	
	TOT %	.4	.3	.3	.2	.9	.2	.1	.1	.0	.1	2.5	
5<10	PCP	.7	.4	.4	1.1	1.9	1.0	.4	.2	.0	.0	6.1	
	NO PCP	7.6	9.5	5.0	6.4	9.3	3.7	1.0	1.1	.0	.5	44.2	
	TOT %	8.4	9.9	5.4	7.6	11.2	4.7	1.4	1.3	.0	.5	50.3	
10+	PCP	.2	.2	.1	.1	.3	.1	.1	.1	.0	.1	1.3	
	NO PCP	6.6	9.7	4.9	4.9	8.3	3.3	1.4	1.3	.0	1.4	41.8	
	TOT %	6.8	9.9	5.0	5.0	8.5	3.4	1.5	1.4	.0	1.5	43.1	
	TOT OBS												1981
	TOT PCT	16.7	21.3	11.0	13.4	21.1	8.5	3.0	2.9	.0	2.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	.0	*	*	.0	.0	.0	.0		.1	
	11-21	.0	.0	*	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	*	.2	*	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	*	.1	.0	.0	*	.0	.0	*	.0	.0	.2	
	4-10	.1	.2	.1	.1	.1	*	.0	*	.0		.6	
	11-21	.2	.2	.1	.1	.1	*	.0	.0	.0		.8	
	22+	.2	*	.0	*	*	*	.0	.0	.0		.4	
	TOT %	.7	.5	.2	.3	.2	.1	.0	.1	.0	.0	2.0	
1<2	0-3	.0	.0	.0	*	*	.0	.0	.0	.0	.1	.1	
	4-10	.1	.1	*	.2	.2	.0	.0	.0	.0		.6	
	11-21	.3	.2	*	*	.1	*	.0	.0	.0		.7	
	22+	.1	*	.1	.1	*	.0	.0	.0	.0		.3	
	TOT %	.5	.4	.1	.3	.3	*	.0	.0	.0	.1	1.8	
2<5	0-3	.1	.1	.2	.1	.1	.0	.1	*	.0	.1	.9	
	4-10	.1	.2	.1	.1	.3	.1	*	*	.0		.9	
	11-21	.2	.1	*	.1	.4	.1	.0	*	.0		1.0	
	22+	*	.1	*	.0	.1	*	.0	*	.0		.3	
	TOT %	.5	.5	.4	.3	.9	.2	.1	.1	.0	.1	3.0	
5<10	0-3	.6	.8	.4	.8	.3	.3	.3	.2	.0	.5	4.2	
	4-10	2.5	4.7	2.9	3.7	4.1	1.8	.5	.5	.0		20.5	
	11-21	3.8	3.4	1.3	1.9	3.8	1.4	.3	.4	.0		16.3	
	22+	.9	.6	.3	.6	2.2	.9	.2	.1	.0		5.9	
	TOT %	7.8	9.4	5.0	7.0	10.3	4.4	1.3	1.2	.0	.5	46.9	
10+	0-3	.6	.7	.5	.6	.6	.6	.4	.2	.0	1.5	5.6	
	4-10	2.9	5.1	3.5	3.1	3.0	1.2	.8	.6	.0		20.3	
	11-21	2.7	4.8	1.6	1.5	3.9	1.1	.4	.5	.0		16.6	
	22+	.8	.3	.0	.1	1.4	.8	.1	.1	.0		3.5	
	TOT %	7.0	10.9	5.5	5.3	9.0	3.7	1.7	1.5	.0	1.5	46.0	
	TOT OBS												2202
	TOT PCT	16.5	21.8	11.2	13.3	20.8	8.4	3.1	2.9	.0	2.2	100.0	

PERIOD: (PRIMARY) 1905-1972
(OVER-ALL) 1857-1972

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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
00&03	.0	.0	1.6	6.5	14.6	11.4	.0	.8	.0	.0	35.0	65.0	123
06&09	.0	.7	1.4	2.2	14.4	5.8	2.2	.0	.0	.0	26.6	73.4	139
12&15	.5	.0	.5	9.7	18.4	5.4	.5	.5	.0	.5	36.2	63.8	185
18&21	.8	.8	1.6	11.2	12.0	10.4	2.4	.8	.0	.8	40.8	59.2	125
TOT	2	2	7	43	87	45	7	3	0	2	198	374	572
PCT	.3	.3	1.2	7.5	15.2	7.9	1.2	.5	.0	.3	34.6	65.4	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
00&03	.0	2.5	1.5	4.2	41.7	50.1	405
06&09	.3	2.6	2.5	2.9	52.9	38.9	768
12&15	.2	1.4	1.4	2.0	42.1	52.9	503
18&21	.3	2.0	1.4	2.9	54.0	39.5	659
TOT	5	50	41	68	1143	1028	2335
PCT	.2	2.1	1.8	2.9	49.0	44.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.8	8.8	28.9	62.3	114
06&09	.0	2.3	6.1	22.1	71.8	131
12&15	.5	1.1	13.2	24.2	62.6	182
18&21	.9	3.5	16.8	28.3	54.9	113
TOT	2	11	61	138	341	540
PCT	.4	2.0	11.3	25.6	63.1	100.0

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
85/89	.0	.0	.1	.0	.2	.1	.0	.0	5	.4
80/84	.0	.1	.0	.2	.2	.9	.7	.1	26	2.1
75/79	.0	.1	.2	.7	.6	4.3	3.5	1.1	126	10.3
70/74	.0	.0	.2	1.1	5.4	8.8	13.7	9.6	475	38.9
65/69	.0	.0	.1	1.3	5.8	10.6	10.6	7.5	438	35.9
60/64	.0	.2	.0	.5	3.6	2.9	2.8	2.1	148	12.1
55/59	.0	.0	.0	.1	.0	.1	.1	.0	3	.2
TOTAL	0	4	7	48	193	338	382	249	1221	100.0
PCT	.0	.3	.6	3.9	15.8	27.7	31.3	20.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.0	.0	.1	*	.1	.0	.0	.1
.6	.3	.3	.1	.1	*	.3	.1	.0	.2
2.5	2.3	1.4	.9	.8	.9	.4	.3	.0	.9
9.2	9.8	5.1	4.3	5.4	1.6	.5	1.8	.0	1.2
3.5	6.3	4.4	6.6	9.6	3.2	.9	.6	.0	.7
.2	.3	.9	2.0	5.1	2.3	.9	*	.0	.3
.0	.0	.0	.0	.1	.1	.0	.0	.0	.0
15.9	19.1	12.1	13.9	21.3	8.2	3.0	3.0	.0	3.4

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	87	84	79	72	64	62	59	71.6	553
06&09	87	81	77	70	64	62	60	70.2	887
12&15	81	76	73	69	63	61	57	68.5	569
18&21	83	78	75	68	63	60	57	68.4	756
TOT	87	81	77	69	63	61	57	69.6	2765

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	9.8	16.9	28.3	29.5	15.4	76	254
06&09	.0	3.7	20.9	27.2	27.9	20.2	78	401
12&15	.0	2.9	13.1	30.5	32.7	20.7	80	275
18&21	.0	3.6	10.3	25.1	36.0	25.1	81	331
TOT	0	60	197	348	396	260	79	1261

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PERIOD: (PRIMARY) 1905-1972
(OVER-ALL) 1857-1972

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) 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	WO FOG
14/16	.0	.0	.1	.1	.1	.0	.0	.1	6	.0	.4
11/13	.0	.0	.0	.0	.0	.0	.2	.0	4	.0	.2
9/10	.0	.0	.0	.1	.2	.1	.0	.0	7	.0	.4
7/8	.0	.0	.1	.1	.4	.7	.1	.0	21	.0	1.3
6	.0	.0	.2	.2	.3	.6	.1	.0	21	.1	1.2
5	.0	.0	.0	.4	1.4	.4	.0	.0	35	.2	1.9
4	.0	.0	.4	1.1	1.7	.1	.1	.0	54	.2	3.2
3	.0	.1	.4	1.6	2.1	.1	.0	.0	69	.3	4.0
2	.0	.2	1.0	5.8	3.2	.2	.0	.0	167	.4	10.0
1	.0	.2	1.5	5.5	3.4	.3	.0	.0	177	.6	10.4
0	.0	.7	3.8	8.5	2.2	.1	.0	.0	246	1.3	14.0
-1	.0	.3	4.0	5.5	.8	.1	.0	.0	171	1.1	9.5
-2	.0	1.4	5.2	3.8	.9	.1	.0	.0	182	.4	10.9
-3	.1	1.1	4.8	1.9	.8	.0	.0	.0	140	.6	8.1
-4	.1	1.6	3.6	1.4	.3	.0	.0	.0	112	.3	6.7
-5	.0	1.6	1.9	.7	.1	.0	.0	.0	69	.1	4.2
-6	.0	1.1	1.6	.4	.0	.0	.0	.0	49	.0	3.1
-7/-8	.1	1.2	.9	.3	.0	.0	.0	.0	41	.0	2.6
-9/-10	.2	.9	.4	.0	.0	.0	.0	.0	24	.0	1.5
-11/-13	.1	.5	.0	.0	.0	.0	.0	.0	9	.0	.6
-14/-16	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	9	176	478	601	287	46	7	1	1605	92	1513
PCT	.6	11.0	29.8	37.4	17.9	2.9	.4	.1	100.0	5.7	94.3

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.5
1-2	.3	3.1	1.2	.0	.0	.0	4.5
3-4	.0	2.2	2.2	.5	.0	.0	4.9
5-6	.0	.3	2.5	.4	.0	.0	3.2
7	.0	.0	1.2	.6	.0	.0	1.8
8-9	.0	.0	.5	.6	.0	.0	1.1
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.0	.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
TOT PCT	.5	5.8	7.6	2.8	.0	.0	16.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.0	.0	.0	.0	.8
1-2	.0	4.4	.8	.0	.0	.0	5.2
3-4	.0	3.8	4.6	.3	.0	.0	8.8
5-6	.0	.3	2.4	.0	.0	.0	2.6
7	.0	.3	1.1	.2	.0	.0	1.6
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.3	.0	.0	.3
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
TOT PCT	.3	9.3	9.2	1.1	.0	.0	19.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.5	.0	.0	.0	.0	2.5
1-2	.3	2.7	1.3	.0	.0	.0	4.3
3-4	.0	1.1	1.5	.2	.0	.0	2.7
5-6	.0	.0	1.1	.0	.0	.0	1.1
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.3	.0	.0	.3
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
TOT PCT	.3	6.2	4.1	.6	.0	.0	11.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.6	.3	.0	.0	.0	1.3
1-2	.0	2.4	.7	.0	.0	.0	3.1
3-4	.1	1.8	1.6	.0	.0	.0	3.4
5-6	.0	.3	1.1	.3	.0	.0	1.6
7	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.3	.1	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.6	5.0	4.6	.3	.0	.0	10.5

PERIOD: (OVER-ALL) 1963-1972

DECEMBER

TABLE 18 (CONT)

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33.3S 152.2E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.3	.0	.0	.0	.0	.0	.3
1-2	.0	2.2	1.4	.0	.0	.0	3.6	.0	1.5	.1	.0	.0	.0	1.6
3-4	.2	1.4	3.9	.4	.0	.0	5.9	.0	.1	1.3	.1	.0	.0	1.5
5-6	.0	1.1	4.6	2.7	.2	.0	8.6	.0	.1	1.3	.1	.1	.0	1.7
7	.0	.0	1.1	.7	.0	.0	1.8	.0	.0	1.1	1.3	.0	.0	2.4
8-9	.0	.0	1.1	.6	.0	.0	1.7	.0	.3	.1	.6	.0	.0	1.0
10-11	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.1	.6	.0	.0	.7
12	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.3	.0	.5	.0	.0	.0	.0	.3	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.3	.0	.0	.3	.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
TOT PCT	.2	5.2	13.3	5.6	.4	.0	24.7	.3	2.0	3.9	2.8	.3	.0	9.4

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	.0	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.3	
1-2	.0	.0	.3	.0	.0	.0	.3	.0	.3	.1	.0	.0	.0	.3	
3-4	.0	.2	.0	.0	.0	.0	.2	.0	.3	1.2	.0	.0	.0	1.5	
5-6	.0	.3	.4	.5	.0	.0	1.2	.0	.0	.8	.3	.0	.0	1.1	
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
10-11	.0	.0	.0	.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	.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	
TOT PCT	.3	.4	1.0	.7	.0	.0	2.4	.0	.8	2.1	.5	.0	.0	3.4	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.5	4.5	.3	.0	.0	.0	8.3	
1-2	.5	16.4	5.8	.0	.0	.0	22.7	
3-4	.5	10.9	16.2	1.5	.0	.0	29.0	
5-6	.3	2.3	14.1	4.3	.3	.0	21.2	
7	.0	.3	5.6	2.8	.0	.0	8.6	
8-9	.0	.3	2.3	2.0	.0	.0	4.5	
10-11	.0	.0	1.3	1.0	.0	.0	2.3	
12	.0	.0	.0	1.3	.0	.0	1.3	
13-16	.0	.0	.0	.8	.5	.0	1.3	
17-19	.0	.0	.0	.5	.0	.0	.5	
20-22	.0	.0	.0	.3	.0	.0	.3	
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	
								396
TOT PCT	4.8	34.6	45.5	14.4	.8	.0	100.0	

PERIOD: (OVER-ALL) 1949-1972

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	5.6	10.7	6.8	2.1	1.2	.4	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	146	4
6-7	.0	.6	7.0	14.1	7.6	3.1	2.1	.4	1.7	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	191	6
8-9	.0	.2	2.3	2.9	4.3	4.1	.6	1.9	1.4	.6	.4	.2	.0	.0	.0	.0	.0	.0	.0	97	8
10-11	.0	.4	.8	.6	1.7	.6	.8	.0	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	8
12-13	.0	.0	.4	.0	1.0	.2	.6	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	14	9
>13	.0	.0	.0	.4	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
INDET	.8	.4	1.0	1.0	1.4	.4	.2	.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	6
TOTAL	7	37	114	133	93	50	25	18	26	8	3	2	0	0	0	0	0	0	0	516	6
PCT	1.4	7.2	22.1	25.8	18.0	9.7	4.8	3.5	5.0	1.6	.6	.4	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1899-1973
(OVER-ALL) 1855-1973

AREA 0007 SYDNEY
33.3S 152.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.2	2.7	1.0	.0	.0	.0	.1	7.0	.7	4.5	5.0	.0	2.7	.1	81.0
NE	4.8	3.5	1.3	.0	.0	.0	.1	9.6	.7	3.2	3.8	.0	2.9	*	80.9
E	5.6	5.2	2.1	.0	.0	.0	.1	12.9	1.4	2.3	3.8	.0	1.2	.0	79.1
SE	6.1	8.0	1.9	.0	.0	.0	*	15.9	1.1	1.8	3.0	.0	1.1	.0	77.8
S	5.4	8.5	1.7	.0	.0	.0	.1	15.6	1.9	2.4	2.5	*	1.2	.0	77.4
SW	5.2	5.7	1.1	.0	.0	.0	*	12.1	1.6	3.4	2.8	*	1.2	*	80.1
W	4.1	2.6	.9	.0	.0	.0	.2	7.8	1.5	4.1	3.0	.0	3.6	*	81.0
NW	3.3	2.2	1.3	.0	.0	.0	.1	6.9	.7	4.6	4.6	.0	2.8	.1	81.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1	.5	1.6	.0	.0	.0	.0	4.2	.2	1.3	2.2	.0	8.7	.0	83.4
TOT PCT	4.5	4.9	1.3	.0	.0	.0	.1	10.7	1.1	3.1	3.5	*	2.2	*	80.2
TOT OBS: 23874															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.0	3.7	1.5	.0	.0	.0	.1	9.2	1.2	.4	2.6	.0	3.2	*	83.6
06&09	4.5	5.0	1.3	.0	.0	.0	.1	10.8	.6	2.5	4.1	.0	2.5	.1	80.5
12&15	5.0	4.8	1.1	.0	.0	.0	.1	11.0	1.7	6.4	3.0	.0	1.1	*	78.4
18&21	4.6	5.8	1.3	.0	.0	.0	.1	11.8	1.1	3.4	4.1	*	2.0	.0	78.3
TOT PCT	4.6	4.9	1.3	.0	.0	.0	.1	10.8	1.1	3.2	3.6	*	2.2	*	80.0
TOT OBS: 25037															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	5.4	5.3	1.3	.1	*		13.3	11.7	15.2	12.0	11.0	12.8	13.4	16.1	14.6	12.8
NE	1.3	7.0	5.5	.8	.1	.0		14.6	10.6	10.2	12.3	19.9	19.1	17.2	15.6	11.5	8.6
E	1.0	4.7	2.4	.5	.1	*		8.8	10.3	8.5	7.9	11.4	10.5	9.4	8.8	7.4	5.8
SE	1.1	5.9	4.2	1.2	.2	*		12.7	11.9	11.3	12.4	14.0	14.8	11.4	13.2	11.8	10.7
S	1.4	6.0	6.5	2.7	.7	.1		17.4	14.4	18.0	18.4	18.6	16.3	20.1	16.2	16.7	16.8
SW	1.4	4.5	4.7	2.3	.6	.1		13.5	13.9	16.4	15.0	11.6	10.6	12.3	11.7	15.1	17.3
W	1.2	3.7	3.3	1.4	.3	*		10.0	11.9	11.1	11.5	7.3	7.4	8.1	9.6	11.4	13.7
NW	1.0	3.4	2.2	.6	.1	*		7.3	10.5	7.8	7.6	5.0	5.7	6.4	7.2	8.9	10.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0	1.5	2.8	1.3	2.8	1.9	1.5	2.5	4.3
TOT OBS							32939		12.1	1606	5488	4744	5283	2446	4214	5382	3776
TOT PCT	12.0	40.7	34.1	10.7	2.2	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.4	6.5	2.9	.5	*		13.3	11.7	12.8	11.9	15.1	13.9
NE	4.1	7.8	2.4	.2	*		14.6	10.6	11.8	19.5	16.2	10.3
E	3.2	4.2	1.0	.3	*		8.8	10.3	8.0	10.9	9.0	6.7
SE	3.5	6.2	2.3	.6	.1		12.7	11.9	12.2	14.4	12.4	11.4
S	3.9	7.1	4.6	1.4	.3		17.4	14.4	18.3	17.4	17.7	16.8
SW	3.2	5.2	3.6	1.3	.2		13.5	13.9	15.3	11.1	11.9	16.0
W	2.9	3.8	2.3	.8	.1		10.0	11.9	11.4	7.3	9.1	12.4
NW	2.5	3.4	1.2	.2	*		7.3	10.5	7.7	5.4	6.9	9.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.0	2.5	2.1	1.6	3.2
TOT OBS						32939		12.1	7094	10027	6660	9158
TOT PCT	29.2	44.2	20.4	5.3	.9		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.5	11.8	38.9	32.5	10.9	2.9	.4	12.2	100.0	7094
06&09	2.1	9.1	41.6	35.0	10.0	1.9	.3	11.9	100.0	10027
12&15	1.6	5.7	41.1	37.1	12.0	2.3	.2	12.9	100.0	6660
18&21	3.2	11.2	40.8	32.3	10.3	2.0	.3	11.6	100.0	9158
TOT								12.1		32939
PCT	2.4	9.6	40.7	34.1	10.7	2.2	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.1	2.3	3.2	2.1		3.6
NE	6.2	2.1	3.4	2.1		3.8
E	3.0	1.8	2.8	1.9		4.3
SE	2.5	2.2	3.9	2.5		4.9
S	4.3	4.0	7.2	3.3		4.7
SW	4.3	3.2	4.9	1.5		4.2
W	4.9	1.8	2.2	1.1		3.4
NW	3.1	1.0	1.8	1.1		3.8
VAR	.0	.0	.0	.0		.0
CALM	1.1	.2	.3	.1		2.6
TOT OBS					6895	4.0
TOT PCT	35.6	18.9	29.6	15.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	.7	1.3	.6	.3	.1	.1	.2	10.3	
NE	*	.0	.1	.8	1.5	.8	.4	.2	.1	.1	9.9	
E	*	*	.1	.8	1.3	.7	.3	.1	*	*	6.1	
SE	*	*	.2	.9	2.2	1.1	.4	.1	*	*	6.1	
S	*	*	.2	2.2	3.7	1.8	.4	.1	*	.1	10.3	
SW	.1	.0	.3	1.2	2.2	.9	.2	*	*	.1	9.0	
W	*	*	.1	.6	.9	.6	.1	.1	.0	.1	7.4	
NW	.0	.0	*	.4	.8	.5	.2	.1	*	.1	4.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	*	*	.1	.1	.0	.0	*	.0	1.5	
TOT OBS												6895
TOT PCT	.3	.1	1.2	7.8	14.0	7.2	2.3	.7	.2	.7	65.5	100.0

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 >5OYD	= OR >0
= OR >6500	.7	.9	.9	.9	.9	.9	.9	.9
= OR >5000	1.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >3500	3.4	4.0	4.0	4.0	4.0	4.0	4.0	4.0
= OR >2000	9.0	10.9	11.1	11.1	11.2	11.2	11.2	11.2
= OR >1000	19.9	24.4	25.0	25.0	25.0	25.1	25.1	25.1
= OR >600	24.2	31.2	32.5	32.7	32.7	32.7	32.7	32.7
= OR >300	24.7	32.0	33.6	33.8	33.9	33.9	34.0	34.0
= OR >150	24.7	32.1	33.7	34.0	34.0	34.1	34.1	34.1
= OR > 0	24.8	32.4	34.0	34.2	34.3	34.4	34.4	34.4

TOTAL NUMBER OF OBS: 6996

PCT FREQ NH <5/8: 65.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
14.2	17.2	13.3	11.3	9.2	7.2	8.2	7.5	11.8	.2	7968

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	.0	*	*	.0	*	.0	.0	.0	.1	
	NO PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.2	
1/2<1	PCP	*	*	*	.1	.1	*	*	*	.0	.0	.3	
	NO PCP	.3	.3	.1	.1	.2	.1	.1	.1	.0	*	1.5	
	TOT %	.4	.4	.1	.2	.3	.1	.1	.1	.0	*	1.8	
1<2	PCP	*	*	*	*	.1	*	*	*	.0	*	.2	
	NO PCP	.2	.2	.1	.1	.1	.1	.1	.1	.0	*	1.0	
	TOT %	.2	.3	.1	.1	.2	.1	.1	.1	.0	*	1.3	
2<5	PCP	.1	.1	.1	.1	.2	.2	.1	*	.0	*	.9	
	NO PCP	.1	.2	.1	.2	.4	.2	.2	.1	.0	.1	1.6	
	TOT %	.2	.3	.2	.3	.6	.4	.2	.2	.0	.1	2.5	
5<10	PCP	.6	.8	.8	1.5	1.9	1.1	.5	.3	.0	*	7.5	
	NO PCP	5.2	5.7	3.4	4.9	6.7	4.8	3.8	2.7	.0	.6	37.7	
	TOT %	5.8	6.5	4.2	6.3	8.6	5.9	4.3	3.0	.0	.6	45.2	
10+	PCP	.1	.2	.1	.2	.4	.3	.1	.1	.0	.1	1.8	
	NO PCP	6.6	6.8	4.1	5.1	7.8	6.7	5.2	3.7	.0	1.3	47.4	
	TOT %	6.7	7.0	4.2	5.3	8.3	7.0	5.4	3.8	.0	1.4	49.1	
	TOT OBS												23853
	TOT PCT	13.4	14.4	8.9	12.3	18.0	13.6	10.1	7.2	.0	2.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	.0	*	*	.0	.0	*	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		.1	
	11-21	.0	*	*	*	*	*	.0	.0	.0		.1	
	22+	*	*	*	*	*	*	*	.0	.0		*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.2	
1/2<1	0-3	*	*	*	*	*	*	*	*	.0	*	.2	
	4-10	.1	.1	.1	.1	*	.1	*	.1	.0		.6	
	11-21	.1	.1	*	.1	.1	*	*	*	.0		.6	
	22+	.1	*	*	*	.1	*	*	*	.0		.3	
	TOT %	.3	.3	.1	.2	.2	.1	.1	.1	.0	*	1.6	
1<2	0-3	*	*	*	*	*	*	*	*	.0	*	.2	
	4-10	*	.1	*	.1	.1	*	*	*	.0		.5	
	11-21	.1	.1	*	*	.1	*	*	*	.0		.4	
	22+	.1	*	*	*	.1	*	*	*	.0		.3	
	TOT %	.2	.3	.1	.2	.2	.1	.1	.1	.0	*	1.4	
2<5	0-3	*	.1	.1	.1	.1	.1	.1	*	.0	.1	.6	
	4-10	.1	.1	.1	.1	.2	.1	.1	.1	.0		.9	
	11-21	.1	.1	.1	.1	.2	.1	*	*	.0		.7	
	22+	*	.1	*	*	.2	.2	*	*	.0		.6	
	TOT %	.3	.4	.3	.3	.7	.4	.2	.2	.0	.1	2.9	
5<10	0-3	.4	.6	.5	.5	.7	.6	.5	.4	.0	.6	4.8	
	4-10	2.1	2.9	1.9	2.6	2.7	1.7	1.4	1.2	.0		16.5	
	11-21	2.3	2.2	1.1	2.0	2.8	1.9	1.3	1.0	.0		14.6	
	22+	.6	.4	.4	.8	1.9	1.3	.8	.3	.0		6.4	
	TOT %	5.4	6.1	3.9	5.9	8.0	5.5	4.0	2.8	.0	.6	42.3	
10+	0-3	.7	.7	.5	.5	.7	.8	.7	.5	.0	1.5	6.6	
	4-10	2.9	3.6	2.6	2.9	3.1	2.6	2.0	1.9	.0		21.5	
	11-21	2.8	2.9	1.3	2.1	3.5	2.6	2.0	1.2	.0		18.4	
	22+	.6	.3	.1	.4	1.2	1.4	.9	.3	.0		5.1	
	TOT %	6.8	7.5	4.5	5.9	8.5	7.4	5.6	3.9	.0	1.5	51.6	
	TOT OBS												26399
	TOT PCT	13.1	14.6	8.9	12.6	17.7	13.6	10.1	7.2	.0	2.3	100.0	

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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
00&03	.1	.1	1.2	7.9	13.5	7.9	2.2	.7	.2	.8	34.6	65.4	1702
06&09	.1	.2	1.0	7.2	11.7	6.5	3.0	.7	.2	.5	31.0	69.0	1639
12&15	.5	*	1.2	7.1	13.3	6.1	1.6	.8	.1	.5	31.3	68.7	2341
18&21	.3	.2	1.2	6.2	12.5	6.4	2.3	.4	.3	.7	30.5	69.5	1931
TOT													7613
PCT	.3	.1	1.1	7.1	12.9	6.7	2.2	.7	.2	.6	31.8	68.2	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
00&03	.3	1.7	1.2	2.6	37.6	56.5	5012
06&09	.1	2.1	2.0	3.9	49.3	42.6	8632
12&15	.1	1.0	.8	1.9	37.9	58.2	5878
18&21	.3	1.9	1.3	2.4	44.9	49.1	8048
TOT							27570
PCT	.2	1.7	1.4	2.8	43.5	50.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.1	1.6	11.7	26.5	61.8	1572
06&09	.2	1.7	10.3	25.0	64.7	1447
12&15	.5	1.8	10.0	22.9	67.1	2223
18&21	.3	1.9	9.8	24.0	66.2	1754
TOT						6996
PCT	.3	1.8	10.4	24.4	65.2	100.0

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
90/94	.0	.0	*	*	.0	*	.0	.0		*
85/89	.0	.0	*	.1	.1	*	*	*		.2
80/84	*	*	*	.2	.3	.2	.2	.1		1.1
75/79	.0	.1	.1	.6	.9	2.5	2.2	1.2		7.6
70/74	.0	.1	.3	1.2	3.9	6.0	6.9	4.6		23.0
65/69	.0	.1	.5	2.2	5.2	7.8	7.5	4.5		27.9
60/64	.0	.1	.6	2.5	6.7	7.0	5.8	2.6		25.3
55/59	.0	*	.2	1.3	2.9	3.6	3.1	1.2		12.2
50/54	.0	.0	*	.2	.3	.4	.8	.4		2.3
45/49	.0	.0	.0	.0	*	.1	.1	.1		.3
TOTAL									14898	100.0
PCT	*	.4	1.9	8.2	20.5	27.7	26.5	14.8		

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	*
	.2	.2	.1	.1	.1	.1	.1	.1	.0	.1
	1.9	2.3	.8	.6	.5	.4	.3	.5	.0	.3
	4.4	5.1	2.9	2.9	3.1	1.5	1.0	1.4	.0	.7
	3.9	3.7	2.7	4.0	5.5	3.0	2.2	2.2	.0	.8
	2.1	2.2	1.8	3.0	5.6	4.6	3.4	1.8	.0	.7
	.5	.4	.4	1.1	2.7	3.5	2.4	.8	.0	.4
	*	*	*	.1	.3	.7	.8	.2	.0	.1
	.0	.0	.0	*	*	.1	.1	*	.0	*
PCT	13.1	14.0	8.8	11.9	17.7	13.9	10.4	7.1	.0	3.1

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	89	78	75	67	60	57	46	67.7	7029
06&09	90	77	73	67	60	57	46	67.0	10107
12&15	85	73	71	66	60	56	45	65.8	6826
18&21	92	74	71	65	58	55	45	64.9	9472
TOT	92	76	73	66	59	56	45	66.3	33434

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	*	15.4	24.1	25.6	23.1	11.8	73	3084
06&09	*	11.4	20.4	28.4	25.3	14.3	75	4427
12&15	.0	8.9	20.4	28.7	26.8	15.1	76	3412
18&21	.0	7.1	17.7	27.3	30.2	17.8	78	4379
TOT	2	1585	3114	4225	4077	2299	76	15302

ANNUAL

PERIOD: (PRIMARY) 1899-1973
(OVER-ALL) 1855-1973

AREA 0007 SYDNEY
33.3S 152.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) 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	85 88	89 92	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	3	.0	*
14/16	.0	.0	.0	.0	*	*	*	*	*	*	*	.0	19	*	.1
11/13	.0	.0	.0	.0	*	*	*	.1	*	*	*	.0	47	.0	.2
9/10	.0	.0	.0	*	.1	.1	.1	.2	.1	*	*	.0	109	*	.6
7/8	.0	.0	.0	*	.1	.2	.3	.2	.3	*	*	.0	218	*	1.1
6	.0	.0	.0	*	*	.1	.2	.2	.2	*	*	.0	169	.1	.8
5	.0	.0	.0	*	.2	.3	.4	.4	.3	*	.0	.0	300	.2	1.4
4	.0	.0	*	.1	.3	.6	.8	.8	.2	*	.0	.0	539	.2	2.7
3	.0	.0	*	.1	.4	.7	.9	.9	.1	*	.0	.0	589	.2	2.9
2	.0	*	*	.2	.8	1.4	1.8	1.7	.4	.1	.0	.0	1212	.4	6.0
1	.0	.0	.1	.2	1.0	1.8	2.1	1.8	.2	.0	.0	.0	1365	.5	6.7
0	.0	*	.1	.6	2.2	3.0	3.8	2.0	.3	*	.0	.0	2300	.6	11.5
-1	.0	*	.1	.9	2.0	2.5	3.0	1.3	.1	*	.0	.0	1877	.6	9.3
-2	.0	*	.3	1.2	3.1	3.0	2.8	1.0	.1	.0	.0	.0	2195	.5	11.0
-3	.0	*	.2	1.4	2.2	2.6	1.7	.5	*	.0	.0	.0	1658	.3	8.3
-4	.0	*	.4	1.8	2.9	2.4	1.5	.4	*	.0	.0	.0	1761	.3	9.0
-5	.0	.1	.4	1.9	2.3	1.9	.8	.2	*	.0	.0	.0	1446	.2	7.5
-6	.0	.1	.3	1.4	1.5	1.1	.4	.1	.0	.0	.0	.0	923	.1	4.7
-7/-8	*	.2	.9	2.2	2.0	1.1	.5	*	.0	.0	.0	.0	1290	.1	6.7
-9/-10	*	.1	.6	1.1	.9	.4	.1	*	.0	.0	.0	.0	618	*	3.2
-11/-13	*	.1	.4	.6	.2	.1	*	*	.0	.0	.0	.0	280	*	1.5
-14/-16	.0	*	.1	.1	*	*	*	.0	.0	.0	.0	.0	55	.0	.3
-17/-19	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	13	.0	.1
TOTAL													18989		
PCT	.1	.7	3.9	13.8	22.2	23.3	21.3	11.9	2.5	.3	*	*	100.0	4.3	95.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.7	*	.0	.0	.0	1.0
1-2	.1	2.5	1.1	.0	.0	.0	3.7
3-4	*	1.4	2.8	.2	.0	.0	4.3
5-6	.0	.2	1.9	.3	.0	.0	2.4
7	.0	*	.7	.4	*	*	1.2
8-9	.0	.0	.2	.3	*	.0	.5
10-11	.0	*	*	.3	*	.0	.3
12	.0	.0	*	.1	.0	.0	.1
13-16	.0	*	.0	.1	.0	.0	.1
17-19	.0	.0	.0	*	*	.0	.1
20-22	.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
TOT PCT	.4	4.9	6.7	1.7	.1	*	13.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	*	.0	.0	.0	.9
1-2	.1	3.0	1.0	.0	.0	.0	4.1
3-4	*	1.8	2.6	.1	.0	.0	4.6
5-6	.0	.3	1.7	.3	*	.0	2.2
7	.0	.1	.7	.2	*	.0	.9
8-9	.0	.0	.1	.2	*	.0	.4
10-11	.0	.0	*	.2	*	.0	.2
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	*	*	.0	.0	*
17-19	.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
TOT PCT	.2	6.0	6.2	1.0	.1	.0	13.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	*	.0	.0	.0	1.2
1-2	.1	2.3	.5	.0	.0	.0	3.0
3-4	*	1.1	1.7	.1	.0	.0	2.9
5-6	.0	.3	1.2	.1	*	.0	1.6
7	.0	*	.3	.2	.1	.0	.6
8-9	.0	*	.1	*	*	.0	.2
10-11	.0	.0	.0	.1	*	.0	.1
12	.0	.0	*	*	.0	.0	*
13-16	.0	.0	*	*	.1	.0	.1
17-19	.0	.0	.0	*	*	.0	*
20-22	.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
TOT PCT	.5	4.6	3.8	.6	.3	.0	9.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	*	.0	.0	.0	.8
1-2	.1	2.1	.6	.0	.0	.0	2.8
3-4	*	1.4	2.0	.1	.0	.0	3.6
5-6	.0	.5	1.7	.2	*	.0	2.4
7	.0	*	.7	.4	*	.0	1.2
8-9	.0	*	.1	.2	.0	.0	.3
10-11	.0	.0	*	.1	.0	.0	.1
12	.0	.0	*	*	*	.0	.1
13-16	.0	.0	*	.1	*	.0	.2
17-19	.0	.0	.0	*	*	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.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
TOT PCT	.3	4.6	5.2	1.1	.1	*	11.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	*	.0	.0	.0	1.0
1-2	.2	2.1	1.0	.0	.0	.0	3.3
3-4	.1	1.6	3.3	.2	.0	.0	5.1
5-6	*	.3	2.7	1.1	*	.0	4.2
7	*	.1	1.6	.7	.3	*	2.6
8-9	.0	*	.4	.6	.1	*	1.2
10-11	*	.0	.2	.4	.1	*	.7
12	.0	.0	.1	.2	.1	.0	.3
13-16	.0	.0	.1	.2	.1	.0	.4
17-19	.0	*	.0	.1	.1	.0	.3
20-22	.0	.0	.0	*	.1	*	.1
23-25	.0	.0	.0	*	.1	.0	.1
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
TOT PCT	.5	5.0	9.3	3.5	1.1	.1	19.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	*	.0	.0	.0	.7
1-2	*	1.6	.6	.0	.0	.0	2.2
3-4	.0	1.1	2.1	.3	.0	.0	3.5
5-6	.0	.2	1.8	.7	.2	.0	2.8
7	*	*	.8	.8	.2	*	1.8
8-9	.0	.1	.3	.4	.1	*	.9
10-11	.0	.0	.1	.5	.1	.0	.7
12	.0	.0	*	.2	.1	.0	.3
13-16	.0	.0	*	.1	.2	.0	.4
17-19	.0	.0	.0	.1	.1	.0	.1
20-22	.0	.0	.0	.1	*	.0	.1
23-25	.0	.0	.0	*	*	.0	*
26-32	.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
TOT PCT	.2	3.5	5.6	3.3	1.0	*	13.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	*	.0	.0	.0	.8
1-2	.1	1.4	.4	.0	.0	.0	2.0
3-4	*	.7	1.7	.1	.0	.0	2.6
5-6	.0	.2	1.3	.3	*	.0	1.9
7	.0	*	.6	.5	.1	*	1.1
8-9	.0	.0	.1	.2	.2	*	.6
10-11	.0	.0	*	.2	.1	*	.3
12	.0	.0	.1	.1	.1	.0	.2
13-16	.0	.0	*	.1	.1	.0	.2
17-19	.0	.0	.0	.0	*	.0	*
20-22	.0	.0	.0	.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
TOT PCT	.3	3.0	4.4	1.4	.6	.1	9.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.6	*	.0	.0	.0	.7	
1-2	.1	1.5	.4	.0	.0	.0	1.9	
3-4	*	.8	1.3	*	.0	.0	2.1	
5-6	.0	.1	.7	.1	.0	.0	.9	
7	.0	.1	.2	.2	*	.0	.5	
8-9	.0	.0	.1	.1	*	*	.2	
10-11	.0	.0	*	.1	*	.0	.1	
12	.0	.0	*	.0	*	.0	*	
13-16	.0	.0	.0	*	.0	*	*	
17-19	.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	
TOT PCT	.2	3.0	2.7	.5	.1	*	6.6	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.9	5.4	.2	.0	.0	.0	9.4	
1-2	.9	16.5	5.5	.0	.0	.0	22.9	
3-4	.3	9.9	17.4	1.0	.0	.0	28.6	
5-6	.1	2.1	12.8	3.1	.3	.0	18.3	
7	*	.3	5.5	3.3	.7	.1	9.9	
8-9	*	.1	1.4	2.1	.5	.1	4.2	
10-11	*	*	.5	1.7	.3	.1	2.6	
12	.0	.0	.2	.8	.3	.0	1.3	
13-16	.0	*	.2	.7	.6	*	1.5	
17-19	.0	*	.0	.3	.3	.0	.6	
20-22	.0	.0	.0	.1	.2	.1	.4	
23-25	.0	.0	.0	*	.2	*	.2	
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	
TOT PCT	5.3	34.4	43.6	13.0	3.4	.3	100.0	5073

PERIOD: (OVER-ALL) 1949-1972

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	7.3	11.3	6.3	3.0	.9	.7	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2039	4
6-7	.0	.8	6.2	9.8	6.6	3.1	2.1	.9	1.2	.4	.2	*	.0	.0	.0	.0	.0	.0	.0	1980	6
8-9	.0	.2	2.0	3.7	4.7	3.1	2.4	1.2	1.5	.3	.3	.2	.1	*	.0	.0	.0	.0	.0	1241	8
10-11	.0	.2	.7	.7	1.1	1.3	1.0	.5	.9	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	431	9
12-13	.0	.0	.3	.3	.4	.2	.3	.2	.4	*	.1	*	*	.0	.0	.0	.0	.0	.0	153	9
>13	.0	.0	.0	.2	.2	.1	.2	.2	.2	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	85	12
INDET	2.2	.9	.9	1.1	.8	.3	.3	.1	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	450	4
TOTAL PCT	3.7	9.4	21.3	22.0	16.7	9.0	6.9	3.4	4.6	1.3	1.0	.4	.2	*	.0	.0	.0	.0	.0	6373 100.0	6

PERIOD: (PRIMARY) 1899-1973
(OVER-ALL) 1855-1973

AREA 0007 SYDNEY
33.3S 152.3E

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	1	*
85/86	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	*
83/84	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	.1
81/82	.1	.8	.4	.1	.0	.0	.0	.0	.0	.1	.0	.2	197	.7
79/80	1.8	2.5	2.2	.8	.2	.0	.0	.0	*	.1	.1	1.5	575	2.1
77/78	4.2	8.2	6.7	2.0	.1	*	.0	.0	.1	.2	.9	4.5	1521	5.5
75/76	10.8	16.5	18.1	7.5	1.9	.1	*	.0	.1	.2	1.1	4.1	10.6	2902	10.5
73/74	20.5	27.0	24.9	19.8	8.0	1.1	*	.2	.2	1.1	4.1	10.6	3864	14.0
71/72	29.2	24.6	24.2	23.4	15.6	3.5	1.2	.3	1.6	3.2	8.0	23.1	4147	15.1
69/70	22.8	13.9	15.7	21.6	21.2	12.7	4.5	2.5	4.2	9.9	19.6	27.0	3648	13.3
67/68	7.3	4.1	5.2	12.3	21.8	18.5	12.2	8.5	10.2	16.2	24.5	21.4	3457	12.6
65/66	1.7	1.0	1.6	8.1	16.3	20.7	17.5	16.4	19.0	26.6	22.4	7.6	3563	12.9
63/64	.8	.6	.6	3.2	10.3	24.6	25.0	28.3	29.6	25.9	14.3	3.0	1951	7.1
61/62	.4	.2	.1	.8	2.1	10.7	18.9	21.8	22.1	10.3	3.5	.6	938	3.4
59/60	.2	.2	.0	.3	1.4	4.0	10.1	13.1	8.0	4.6	1.6	.4	467	1.7
57/58	*	.3	.0	.1	.6	2.8	6.7	5.8	3.4	1.3	.6	.1	154	.6
55/56	.0	.0	.0	.0	.3	.8	2.4	2.0	.7	.6	.3	.1	55	.2
53/54	.0	.0	.0	.0	*	.2	1.0	.7	.5	.1	.0	*	24	.1
51/52	.0	.0	.0	.0	.1	.0	.3	.4	.3	.1	.0	.0	8	*
49/50	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	1	*
47/48	.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	2771	2241	2720	2440	2429	2282	2148	2141	2061	1991	2023	2271	27518	100.0
MEAN	71.7	72.8	72.7	70.6	68.1	65.1	63.1	62.7	63.6	65.1	67.1	69.8	67.7	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1014	1013	1011	1012	1014	1012	1012	1012	1012	1695
FEB	1014	1014	1012	1013	1014	1013	1013	1014	1014	1858
MAR	1017	1016	1015	1016	1017	1016	1015	1016	1016	1923
APR	1019	1018	1016	1017	1018	1017	1017	1017	1017	1932
MAY	1020	1019	1018	1019	1019	1019	1018	1019	1019	1915
JUN	1019	1017	1017	1018	1018	1019	1017	1018	1018	1665
JUL	1019	1019	1017	1018	1018	1018	1017	1019	1018	1619
AUG	1017	1018	1016	1018	1018	1018	1017	1019	1018	1709
SEP	1017	1016	1015	1016	1018	1017	1017	1017	1016	1600
OCT	1016	1015	1014	1014	1017	1016	1014	1014	1015	1686
NOV	1015	1014	1013	1013	1014	1014	1013	1013	1014	1735
DEC	1013	1013	1012	1012	1013	1013	1012	1013	1012	1655
ANN	1017	1016	1015	1016	1017	1016	1015	1016	1016	20992
OBS	1608	3228	2802	3055	2454	2134	3429	2281		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	988	996	1002	1008	1012	1017	1022	1025	1029
FEB	991	999	1004	1009	1013	1018	1023	1025	1031
MAR	994	1001	1006	1012	1016	1020	1025	1029	1034
APR	992	1001	1006	1013	1018	1022	1027	1030	1036
MAY	996	1001	1005	1014	1020	1024	1029	1032	1036
JUN	988	998	1004	1013	1018	1023	1029	1034	1038
JUL	991	998	1006	1013	1019	1023	1029	1032	1039
AUG	990	998	1004	1012	1018	1023	1029	1033	1038
SEP	990	997	1003	1012	1017	1021	1028	1031	1034
OCT	987	996	1003	1010	1015	1020	1026	1028	1034
NOV	989	995	1002	1009	1014	1018	1024	1028	1032
DEC	990	998	1002	1008	1013	1017	1022	1025	1030

JANUARY

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.9	.6	.3	.0	.0	.0	.0	2.5	1.1	5.0	7.5	.0	8.8		.0	76.2
NE	3.8	1.2	.2	.0	.0	.0	.0	5.0	.9	5.0	1.9	.0	4.4		.0	85.2
E	6.1	1.7	3.8	.0	.0	.0	.0	11.6	.0	3.6	1.3	.0	1.3		.0	82.2
SE	3.3	3.5	2.0	.0	.0	.0	1.2	10.0	.0	1.2	2.0	.0	2.0		.0	86.0
S	5.3	4.1	.5	.0	.0	.0	.4	10.2	1.4	2.4	2.2	.0	2.5		.0	82.6
SW	7.0	13.1	4.2	.0	.0	.0	1.0	25.3	1.5	5.5	2.7	.0	1.8		.0	65.1
W	3.2	8.6	1.1	.0	.0	.0	.0	12.8	.0	3.7	6.4	.0	1.1		.0	75.9
NW	1.3	6.3	.0	.0	.0	.0	.0	7.5	.0	.6	8.8	.0	.0		.0	83.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	15.4	.0	.0	.0	.0	.0	.0	15.4	.0	7.7	.0	.0	15.4		.0	61.5
TOT PCT	4.5	4.1	1.4	.0	.0	.0	.3	10.2	.9	3.7	3.3	.0	3.5		.0	79.7
TOT OBS:	1156															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.4	3.4	1.3	.0	.0	.0	.0	8.1	.8	.0	2.1	.0	3.4		.0	85.6
06&09	3.7	3.7	.9	.0	.0	.0	.9	9.2	.0	2.3	3.4	.0	5.7		.0	80.8
12&15	8.2	4.1	1.9	.0	.0	.0	.4	14.2	1.5	9.3	3.4	.0	1.5		.0	73.9
18&21	3.5	4.9	1.4	.0	.0	.0	.0	9.8	1.2	3.8	4.9	.0	2.9		.0	78.0
TOT PCT	4.6	4.1	1.3	.0	.0	.0	.3	10.3	.8	3.8	3.6	.0	3.5		.0	79.4
TOT OBS:	1199															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	6.3	7.8	1.6	.1	*		16.9	12.6	16.7	21.0	14.3	13.5	11.2	17.2	18.8	18.9
NE	.9	7.9	8.4	1.8	.1	.0		19.2	12.5	12.9	14.1	21.4	28.5	23.2	22.6	16.6	13.6
E	.6	5.2	2.3	.5	.3	.0		8.9	10.7	4.2	8.4	12.5	10.8	8.9	8.1	8.0	7.3
SE	.6	6.2	4.3	1.1	.1	.0		12.4	11.8	8.7	12.4	14.0	17.1	12.1	14.4	9.0	9.8
S	.8	6.3	11.0	3.2	.6	.0		21.9	14.6	30.4	21.6	21.8	18.4	29.0	17.8	21.4	22.5
SW	.2	3.5	5.7	2.4	.4	.0		12.2	15.8	17.9	12.8	11.7	7.5	10.0	11.3	14.5	13.0
W	.4	1.3	1.2	.7	.1	.0		3.6	14.1	2.0	4.5	2.7	2.6	1.4	3.0	5.0	5.7
NW	.2	2.0	1.0	.2	.2	.1		3.6	12.3	4.5	4.0	1.2	1.7	.5	4.0	4.9	7.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0	2.7	1.0	.3	.0	3.6	1.7	1.8	1.5
TOT OBS	112	711	769	211	35	2	1840		13.0	112	290	293	237	138	235	329	206
TOT PCT	6.1	38.6	41.8	11.5	1.9	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.4	8.4	4.5	.5	.1		16.9	12.6	19.8	14.0	15.0	18.9
NE	3.9	9.9	4.9	.4	.1		19.2	12.5	13.8	24.6	22.8	13.4
E	3.5	3.9	1.1	.4	.1		8.9	10.7	7.3	11.7	8.4	7.7
SE	2.8	6.5	2.6	.4	*		12.4	11.8	11.4	15.4	13.5	9.3
S	3.2	10.8	6.3	1.4	.2		21.9	14.6	24.1	20.3	21.9	21.8
SW	1.5	5.1	4.6	1.0	.1		12.2	15.8	14.2	9.8	10.8	13.9
W	.8	1.6	.7	.5	.1		3.6	14.1	3.8	2.7	2.4	5.3
NW	1.3	1.5	.5	.2	.1		3.6	12.3	4.1	1.4	2.7	6.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	1.5	.2	2.4	1.7
TOT OBS	397	878	464	89	12	1840		13.0	402	530	373	535
TOT PCT	21.6	47.7	25.2	4.8	.7		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	1.5	5.2	38.6	41.0	11.9	1.7	.0	12.8	100.0	402
06609	.2	4.0	37.2	43.4	13.4	1.7	.2	13.7	100.0	530
12615	2.4	5.1	40.2	40.8	9.1	2.1	.3	12.6	100.0	373
18621	1.7	4.9	39.1	41.5	10.8	2.1	.0	12.8	100.0	535
TOT	25	87	711	769	211	35	2	13.0		1840
PCT	1.4	4.7	38.6	41.8	11.5	1.9	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.9	1.9	1.9	2.1		3.1
NE	9.2	2.9	3.9	1.4		2.9
E	2.2	1.3	3.1	1.4		4.5
SE	3.0	2.1	3.0	2.3		4.7
S	5.0	4.0	9.9	10.2		5.6
SW	3.1	2.4	5.0	3.1		4.8
W	.7	.4	1.4	.3		4.6
NW	.7	.8	.3	.6		4.0
VAR	.0	.0	.0	.0		.0
CALM	.5	.5	.8	.8		5.3
TOT OBS	128	65	117	88	398	4.4
TOT PCT	32.2	16.3	29.4	22.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.4	.7	1.3	.2	.0	.0	.0	11.2	
NE	.0	.0	.0	.3	1.3	.7	.1	.3	.0	.0	14.8	
E	.0	.0	.0	.0	1.9	.8	.3	.3	.0	.3	4.5	
SE	.0	.0	.3	.2	2.1	1.6	.5	.1	.0	.0	9.7	
S	.0	.3	.2	3.6	7.9	3.5	.8	.8	.0	.5	11.6	
SW	.0	.0	.3	.4	1.8	1.4	1.3	.1	.0	.0	8.4	
W	.0	.0	.0	1.0	.0	.2	.0	.0	.0	.0	1.6	
NW	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	1.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.3	.8	.0	.0	.0	.0	.0	1.5	
TOT OBS	0	1	3	25	67	38	12	6	0	3	243	398
TOT PCT	.0	.3	.8	6.3	16.8	9.5	3.0	1.5	.0	.8	61.1	100.0

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 >50YD	* OR >0
* OR >6500	.5	.7	.7	.7	.7	.7	.7	.7
* OR >5000	1.7	2.0	2.2	2.2	2.2	2.2	2.2	2.2
* OR >3500	4.5	5.0	5.2	5.2	5.2	5.2	5.2	5.2
* OR >2000	12.4	14.1	14.4	14.4	14.4	14.4	14.4	14.4
* OR >1000	24.3	30.7	31.2	31.2	31.2	31.2	31.2	31.2
* OR >600	28.2	36.4	37.4	37.4	37.4	37.4	37.4	37.4
* OR >300	28.7	37.1	38.1	38.1	38.1	38.1	38.1	38.1
* OR >150	29.0	37.4	38.4	38.4	38.4	38.4	38.4	38.4
* OR > 0	29.0	37.4	38.4	38.4	38.4	38.4	38.4	38.4
TOTAL	117	151	155	155	155	155	155	155

TOTAL NUMBER OF OBS: 404 PCT FREQ NH <5/8: 61.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.5	19.1	13.9	9.7	7.4	6.6	6.8	8.7	17.3	.0	497

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	*	*	.0	*	.1	.1	.0	.0	.0	.3	
	NO PCP	.8	.3	.1	.1	.5	.2	.2	.2	.0	.0	2.3	
	TOT %	.8	.3	.1	.1	.5	.3	.3	.2	.0	.0	2.7	
1<2	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	1.1	.4	.1	.1	.3	.1	*	.1	.0	.0	2.3	
	TOT %	1.1	.4	.2	.2	.3	.1	*	.1	.0	.0	2.5	
2<5	PCP	*	*	.3	.2	.2	.3	*	*	.0	.0	1.1	
	NO PCP	.2	.3	.2	.2	.2	.0	.0	.0	.0	.0	1.0	
	TOT %	.2	.3	.5	.4	.4	.3	*	*	.0	.0	2.2	
5<10	PCP	.3	.5	.4	.8	1.8	2.5	.4	.2	.0	.2	7.0	
	NO PCP	6.5	8.6	4.7	4.3	8.4	3.9	2.1	1.8	.0	.3	40.6	
	TOT %	6.8	9.1	5.0	5.0	10.2	6.4	2.5	2.0	.0	.5	47.6	
10+	PCP	.0	.3	.4	*	.4	.3	.0	.0	.0	.0	1.6	
	NO PCP	6.5	7.8	3.9	5.2	11.6	5.4	1.2	1.1	.0	.6	43.3	
	TOT %	6.5	8.1	4.4	5.2	11.9	5.8	1.2	1.1	.0	.6	44.8	
	TOT OBS												1155
	TOT PCT	15.5	18.3	10.2	11.0	23.4	12.9	4.0	3.4	.0	1.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.1	.1	
	4-10	.1	.1	.0	.0	.1	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.0	.0	.1	.0	*	*	.0	.1	.4	
1/2<1	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	4-10	.2	.0	.1	.0	.0	.0	.1	*	.0		.4	
	11-21	.4	.0	.0	.1	.3	.3	.1	.1	.0		1.3	
	22+	.1	.3	*	*	.1	.0	.0	.1	.0		.7	
	TOT %	.8	.3	.1	.1	.4	.3	.2	.2	.0	.0	2.4	
1<2	0-3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.2	.3	.1	.1	.2	.1	*	.1	.0		1.2	
	11-21	.6	.2	.0	.3	.4	*	.0	.0	.0		1.5	
	22+	.0	.1	.1	.2	*	.1	.0	.0	.0		.5	
	TOT %	1.0	.6	.3	.6	.6	.3	*	.1	.0	.0	3.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.3	.2	.2	.1	.3	.0	.0	.0		1.2	
	11-21	.2	.2	.1	.2	.2	.1	.1	*	.0		1.1	
	22+	.0	.1	.4	*	.3	.1	.0	.0	.0		1.0	
	TOT %	.4	.6	.7	.4	.6	.6	.1	*	.0	.0	3.4	
5<10	0-3	.5	.4	.2	.3	.3	.1	.3	.1	.0	.4	2.7	
	4-10	1.7	2.9	2.4	2.4	2.7	1.3	.8	1.0	.0		15.1	
	11-21	3.3	4.1	1.5	1.8	4.6	2.9	.6	.4	.0		19.3	
	22+	.8	1.0	.4	.6	1.9	1.5	.7	.4	.0		7.2	
	TOT %	6.4	8.4	4.5	5.1	9.5	5.9	2.3	1.8	.0	.4	44.3	
10+	0-3	.2	.3	.4	.4	.5	.1	.0	.1	.0	.7	2.7	
	4-10	3.0	4.3	2.9	3.5	3.6	1.8	.4	.7	.0		20.2	
	11-21	3.0	4.0	.9	1.8	6.4	2.7	.6	.4	.0		19.8	
	22+	.2	.4	.1	.1	1.1	1.3	.2	*	.0		3.5	
	TOT %	6.4	8.9	4.3	5.9	11.6	5.9	1.2	1.2	.0	.7	46.2	
	TOT OBS												1341
	TOT PCT	15.0	18.8	9.8	12.1	22.8	12.9	3.9	3.4	.0	1.3	100.0	

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PERIOD: (PRIMARY) 1897-1973
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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
00&03	.0	.9	1.8	3.6	17.3	2.7	1.8	.9	.0	.9	30.0	70.0	110
06&09	.0	.0	.0	3.3	12.4	7.4	1.7	1.7	.0	.0	26.4	73.6	121
12&15	.0	.0	.0	7.3	15.4	12.2	4.1	2.4	.0	1.6	43.1	56.9	123
18&21	.0	.0	1.0	7.8	14.6	10.7	2.9	.0	.0	.0	36.9	63.1	103
TOT	0	1	3	25	68	38	12	6	0	3	156	301	457
PCT	.0	.2	.7	5.5	14.9	8.3	2.6	1.3	.0	.7	34.1	65.9	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
00&03	.0	1.6	3.9	2.4	40.8	51.4	255
06&09	.2	2.4	4.4	4.6	48.3	40.0	412
12&15	.0	2.6	1.3	2.9	37.7	55.5	308
18&21	1.0	2.9	3.7	2.9	48.9	40.6	409
TOT	5	34	47	46	619	633	1384
PCT	.4	2.5	3.4	3.3	44.7	45.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.0	8.0	26.0	66.0	100
06&09	.0	.0	5.0	28.0	67.0	100
12&15	.0	.0	9.5	37.1	53.4	116
18&21	.0	1.1	12.5	30.7	56.8	88
TOT	0	4	35	124	245	404
PCT	.0	1.0	8.7	30.7	60.6	100.0

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
80/84	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
75/79	.0	.0	.0	.7	.3	2.0	1.7	.8	33	5.5
70/74	.0	.0	.0	.7	4.1	4.8	6.1	7.0	137	22.7
65/69	.0	.0	.2	2.0	10.1	12.4	17.1	5.1	283	46.9
60/64	.0	.0	.0	2.5	7.1	7.5	3.6	2.3	139	23.1
55/59	.0	.0	.0	.0	.5	.7	.2	.3	10	1.7
TOTAL	0	0	1	35	134	165	173	95	603	100.0
PCT	.0	.0	.2	5.8	22.2	27.4	28.7	15.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.1	.0	.0	.0	.0	.0	.0	.0
1.8	1.8	.3	.2	.6	.2	.1	.2	.0	.2
6.6	7.0	.7	.7	4.7	1.4	.2	.7	.0	.7
7.2	7.9	5.0	6.4	11.2	5.1	1.8	1.5	.0	.8
.4	.6	1.8	3.0	10.0	6.1	1.0	.1	.0	.2
.0	.0	.0	.0	.4	1.0	.1	.0	.0	.2
16.0	17.3	8.0	10.3	26.8	13.8	3.2	2.6	.0	2.0

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	83	80	77	69	62	59	57	69.2	386
06&09	83	79	75	68	62	60	56	66.5	520
12&15	78	75	73	67	61	58	54	67.2	378
18&21	78	76	73	67	60	56	54	66.7	548
TOT	83	78	75	68	61	58	54	67.8	1832

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	13.6	24.8	20.8	29.6	11.2	74	125
06&09	.0	5.1	27.8	28.5	22.8	15.8	76	158
12&15	.0	1.9	23.6	29.2	30.4	14.9	78	161
18&21	.0	5.2	12.1	30.1	32.4	20.2	79	173
TOT	0	37	134	170	178	98	77	617

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	WO FOG
11/13	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
9/10	.0	.0	.2	.0	.1	.1	.0	.0	4	.1	.3
7/8	.0	.0	.1	.2	.4	.5	.2	.0	14	.0	1.4
6	.0	.0	.0	.1	.3	.1	.2	.1	8	.0	.8
5	.0	.0	.0	.3	.4	1.0	.1	.0	18	.0	1.8
4	.0	.0	.2	.8	1.2	1.2	.3	.0	37	.1	3.6
3	.0	.1	.1	1.1	1.9	.5	.1	.1	39	.2	3.7
2	.0	.0	.3	1.6	3.4	2.4	.2	.0	79	.6	7.2
1	.0	.0	.5	2.0	5.3	2.0	.1	.0	100	.6	9.3
0	.0	.2	2.3	5.3	6.5	1.2	.2	.0	159	.7	15.0
-1	.0	.0	2.0	5.4	4.1	.1	.0	.0	118	.3	11.4
-2	.0	.2	2.9	7.1	2.9	.5	.0	.0	137	.3	13.2
-3	.0	.1	2.1	4.5	1.6	.2	.1	.0	87	.2	8.4
-4	.0	.4	2.0	4.5	.6	.1	.0	.0	77	.0	7.6
-5	.0	.4	2.1	2.4	.1	.2	.0	.0	52	.2	4.9
-6	.0	.3	1.8	1.0	.2	.0	.0	.0	33	.1	3.2
-7/-8	.1	.7	2.0	.6	.0	.0	.0	.0	34	.1	3.3
-9/-10	.1	.7	.6	.1	.0	.0	.0	.0	15	.0	1.5
-11/-13	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
TOTAL	2	31	192	376	293	102	15	2	1013	35	978
PCT	.2	3.1	19.0	37.1	28.9	10.1	1.5	.2	100.0	3.5	96.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	3.7	.6	.0	.0	.0	4.3
3-4	.0	1.4	4.2	.2	.0	.0	5.9
5-6	.0	.6	1.5	.6	.0	.0	2.6
7	.0	.0	.6	.2	.0	.0	.8
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
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	[illegible]	.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
TOT PCT	.0	6.3	7.1	1.1	.0	.0	14.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	5.4	1.2	.0	.0	.0	6.5
3-4	.3	1.9	2.5	.3	.0	.0	5.0
5-6	.0	.4	1.4	.7	.0	.0	2.6
7	.0	.0	1.4	.4	.0	.0	1.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.3	8.0	6.4	1.5	.0	.0	16.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	.6	.9	.0	.0	.0	1.5
3-4	.0	1.2	.5	.0	.0	.0	1.7
5-6	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	3.1	2.3	.0	.0	.0	5.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.7	.3	.0	.0	.0	1.3
1-2	.0	2.8	.5	.0	.0	.0	3.3
3-4	.0	1.4	1.0	.0	.0	.0	2.4
5-6	.0	.1	1.7	.0	.0	.0	1.8
7	.0	.0	.4	.1	.0	.0	.5
8-9	.0	.0	.0	.0	.1	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.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
TOT PCT	.3	5.0	4.0	.2	.1	.0	9.5

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.7
1-2	.7	7.1	1.5	.0	.0	.0	9.2
3-4	.0	.9	7.2	.0	.0	.0	8.1
5-6	.0	.8	6.4	1.0	.0	.0	8.3
7	.0	.0	2.5	1.4	1.0	.0	4.9
8-9	.0	.0	.2	.0	.2	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.6	.0	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.3	.0	.0	.3
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.3	.0	.0	.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
TOT PCT	1.0	9.2	17.8	3.6	1.2	.0	32.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.7	.7	.0	.0	.0	3.4
3-4	.0	2.3	2.1	.3	.0	.0	4.8
5-6	.0	.1	2.0	.0	.0	.0	2.1
7	.0	.0	.7	1.8	.0	.0	2.6
8-9	.0	.0	.4	.3	.3	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	5.1	5.9	2.5	.3	.0	13.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.0	.2	.0	.0	.0	.2
5-6	.0	.0	.5	.3	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.7	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.3	.7	1.0	.0	.0	2.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.4	.0	.0	.0	.0	.4	
1-2	.0	.5	.0	.0	.0	.0	.5	
3-4	.0	.7	.4	.1	.0	.0	1.2	
5-6	.0	.0	.7	.0	.0	.0	.7	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	.0	1.7	1.2	.1	.0	.0	3.0	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.6	3.6	.3	.0	.0	.0	7.5	
1-2	1.3	22.9	5.2	.0	.0	.0	29.4	
3-4	.3	9.8	18.0	1.0	.0	.0	29.1	
5-6	.0	2.0	15.0	2.6	.0	.0	19.6	
7	.0	.0	5.6	3.9	1.0	.0	10.5	
8-9	.0	.0	1.0	1.0	.7	.0	2.6	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.7	.0	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.3	.0	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.3	.0	.0	.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	306
TOT PCT	5.2	38.2	45.1	9.8	1.6	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

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	9.3	11.1	9.8	3.2	1.1	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	136	4
6-7	.3	.8	11.9	10.1	7.7	3.2	1.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	133	5
8-9	.0	.3	1.9	3.4	5.8	1.1	1.1	.3	.8	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	59	8
10-11	.0	.8	.5	1.1	1.9	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	6
12-13	.0	.0	.0	.0	.5	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
>13	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	3	12
INDET	1.3	1.9	.8	1.6	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	3
TOTAL	10	49	99	100	72	24	12	1	4	2	4	0	1	0	0	0	0	0	0	378	5
PCT	2.6	13.0	26.2	26.5	19.0	6.3	3.2	.3	1.1	.5	1.1	.0	.3	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1898-1971
(OVER-ALL) 1856-1971

AREA 0008 CAPE HOWE NE
36.0S 150.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.8	4.4	1.0	.0	.0	.0	.0	8.3	.3	5.4	4.5	.0	6.7	.5		75.0
NE	4.8	2.6	.4	.0	.0	.0	.4	8.4	1.5	3.4	2.1	.0	2.4	.0		84.0
E	6.9	3.2	1.1	.0	.0	.0	.0	11.1	.0	2.6	2.1	.0	.5	.0		84.1
SE	2.7	4.9	.9	.0	.0	.0	.0	8.4	1.1	2.2	3.1	.0	3.3	.0		81.8
S	5.4	4.0	2.4	.0	.0	.0	.0	11.8	2.1	1.5	1.7	.0	1.6	.0		82.1
SW	6.7	4.4	1.3	.0	.0	.0	.0	12.4	1.1	2.5	3.4	.0	.4	.0		81.1
W	3.8	7.5	.0	.0	.0	.0	.0	11.3	6.6	3.8	5.7	.0	.0	.0		72.6
NW	1.2	3.5	.0	.0	.0	.0	.0	4.7	2.3	9.9	1.2	.0	2.3	.0		79.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	12.5	.0	.0	.0	.0	.0	.0	12.5	.0	.0	12.5	.0	12.5	.0		62.5
TOT PCT	4.6	3.9	1.1	.0	.0	.0	.1	9.8	1.3	3.3	2.8	.0	2.7	.1		80.8
TOT OBS:	1055															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.3	1.9	1.9	.0	.0	.0	.0	8.2	.5	.0	3.8	.0	1.4	.0		86.1
06&09	4.5	3.5	.3	.0	.0	.0	.0	8.4	.6	2.6	3.2	.0	2.6	.3		83.3
12&15	4.5	4.9	1.5	.0	.0	.0	.4	11.4	1.9	6.1	1.5	.0	2.7	.0		78.4
18&21	5.3	6.5	1.5	.0	.0	.0	.0	13.3	1.9	5.0	2.5	.0	3.4	.0		74.9
TOT PCT	4.7	4.4	1.3	.0	.0	.0	.1	10.5	1.3	3.6	2.7	.0	2.6	.1		80.2
TOT OBS:	1106															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	7.2	7.9	1.9	.1	.0		18.1	12.6	19.9	18.4	13.1	16.3	19.2	19.1	19.3	21.1
NE	1.6	9.0	9.1	1.9	.2	*		21.8	12.1	14.5	24.7	25.2	26.9	23.1	23.0	18.8	13.2
E	.8	5.8	2.5	.5	*	*		9.6	9.7	7.4	8.4	11.4	12.6	9.4	13.3	5.5	9.5
SE	.5	5.3	4.6	.8	.1	.1		11.5	12.0	4.0	9.5	12.5	14.1	12.0	13.1	11.0	11.9
S	.9	6.9	9.0	3.5	.8	.1		21.2	15.4	29.3	21.6	23.7	19.8	21.1	15.8	22.5	19.9
SW	.5	2.6	4.3	2.0	.3	.1		9.9	16.0	14.5	9.3	9.6	7.5	10.6	8.1	10.8	12.4
W	*	.9	.9	.4	.1	.0		2.3	14.3	2.8	3.1	1.0	.9	1.9	2.3	2.8	3.5
NW	.2	2.2	1.4	.1	*	.0		3.9	10.3	4.3	3.3	2.3	.7	2.1	4.1	6.7	7.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0	3.4	1.7	1.2	1.3	.7	1.4	2.6	1.5
TOT OBS	128	697	691	195	30	7	1748		12.8	88	302	253	227	146	222	309	201
TOT PCT	7.3	39.9	39.5	11.2	1.7	.4		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.7	9.3	4.6	.5	.1		18.1	12.6	18.7	14.6	19.2	20.0
NE	5.1	11.4	4.5	.8	*		21.8	12.1	22.4	26.0	23.0	16.6
E	3.5	4.9	1.0	.2	*		9.6	9.7	8.2	11.9	11.8	7.1
SE	2.4	6.6	2.2	.2	.1		11.5	12.0	8.3	13.3	12.6	11.4
S	2.7	10.1	6.3	1.7	.5		21.2	15.4	23.3	21.9	17.9	21.5
SW	1.8	3.6	3.3	1.2	.2		9.9	16.0	10.4	8.6	9.1	11.4
W	.5	1.1	.5	.1	.1		2.3	14.3	3.1	.9	2.1	3.1
NW	1.1	2.3	.5	*	.0		3.9	10.3	3.5	1.5	3.3	6.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	2.1	1.3	1.1	2.2
TOT OBS	391	859	399	83	16	1748		12.8	390	480	368	510
TOT PCT	22.4	49.1	22.8	4.7	.9		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1898-1971
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.1	5.9	39.0	36.2	14.9	1.5	.5	13.0	100.0	390
06&09	1.3	4.4	37.9	43.1	11.0	1.7	.6	13.4	100.0	480
12&15	1.1	5.4	41.6	40.2	9.8	1.9	.0	12.3	100.0	368
18&21	2.2	6.9	41.2	38.2	9.4	1.8	.4	12.5	100.0	510
TOT	29	99	697	691	195	30	7	12.8		1748
PCT	1.7	5.7	39.9	39.5	11.2	1.7	.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.8	2.4	5.4	2.0		3.5
NE	10.1	1.9	5.2	2.4		3.5
E	1.7	1.0	3.0	1.7		5.2
SE	2.3	1.6	3.2	2.6		5.1
S	6.2	4.6	9.8	6.5		5.0
SW	2.6	1.8	3.9	3.9		5.3
W	.3	.1	.7	.2		5.5
NW	1.6	.3	.9	.3		3.4
VAR	.0	.0	.0	.0		.0
CALM	.8	.3	.3	.5		3.8
TOT OBS	127	54	124	77	382	4.4
TOT PCT	33.2	14.1	32.5	20.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.7	.4	1.5	.5	.9	.1	.4	.0	13.1	
NE	.0	.0	.6	1.2	3.0	1.0	.4	.0	.1	.0	13.3	
E	.0	.0	.3	.8	1.4	.5	.3	.0	.0	.0	4.2	
SE	.0	.0	.0	1.4	1.2	1.4	1.6	.0	.0	.0	4.1	
S	.0	.0	.0	2.8	5.6	3.2	2.0	.3	.5	.0	12.6	
SW	.0	.3	.0	2.1	2.2	1.0	.9	.0	.5	.0	5.3	
W	.0	.0	.0	.2	.5	.2	.0	.0	.0	.0	.4	
NW	.0	.0	.3	.0	.3	.0	.0	.1	.0	.0	2.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.0	.3	.0	.0	.0	.0	.3	1.0	
TOT OBS	1	1	7	34	61	30	23	2	6	1	216	382
TOT PCT	.3	.3	1.8	8.9	16.0	7.9	6.0	.5	1.6	.3	56.5	100.0

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 >50YD	= OR >0
= OR >6500	1.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8
= OR >5000	2.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3
= OR >3500	6.6	7.8	8.4	8.4	8.4	8.4	8.4	8.4
= OR >2000	12.9	14.9	15.9	15.9	15.9	15.9	15.9	15.9
= OR >1000	25.1	31.1	32.7	32.7	32.7	32.7	32.7	32.7
= OR >600	30.6	38.5	40.8	41.0	41.0	41.0	41.0	41.0
= OR >300	31.1	39.7	42.5	42.8	42.8	42.8	42.8	42.8
= OR >150	31.1	40.0	42.8	43.0	43.0	43.0	43.0	43.0
= OR > 0	31.4	40.3	43.0	43.3	43.3	43.5	43.5	43.5
TOTAL	124	159	170	171	171	172	172	172

TOTAL NUMBER OF OBS: 395

PCT FREQ NH <5/8: 56.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
10.8	17.9	14.1	7.4	7.4	8.0	9.2	11.6	13.5	.2	502

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PERIOD: (PRIMARY) 1898-1971
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	*	.2	.1	.0	*	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	TOT %	*	.0	.0	*	.2	.1	.0	*	.0	.1	.5	
1/2<1	PCP	.1	*	.1	.0	*	.2	.1	.0	.0	.0	.7	
	NO PCP	.7	.2	.0	.1	.5	.1	.0	*	.0	.0	1.5	
	TOT %	.8	.3	.1	.1	.4	.3	.1	*	.0	.0	2.2	
1<2	PCP	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.4	
	NO PCP	.8	.4	*	.2	*	.1	.0	.1	.0	.0	1.7	
	TOT %	.8	.6	*	.2	.2	.1	.0	.1	.0	.0	2.1	
2<5	PCP	.1	.2	.1	.2	.4	.2	.1	.0	.0	.0	1.3	
	NO PCP	.7	.2	.1	.0	.1	.1	*	*	.0	.0	1.2	
	TOT %	.8	.4	.3	.2	.5	.3	.1	*	.0	.0	2.6	
5<10	PCP	.9	1.1	.5	.4	1.2	.5	.1	.1	.0	.0	4.7	
	NO PCP	6.1	8.8	3.6	3.5	7.9	3.4	1.1	1.8	.0	.1	36.3	
	TOT %	6.9	9.9	4.1	3.9	9.0	3.9	1.2	2.0	.0	.1	41.0	
10+	PCP	.4	.2	.2	.3	.6	.4	.0	.0	.0	.1	2.3	
	NO PCP	8.6	10.1	4.2	5.9	11.0	6.2	1.1	1.9	.0	.5	49.4	
	TOT %	8.9	10.4	4.4	6.2	11.6	6.6	1.1	1.9	.0	.6	51.7	
	TOT OBS												1055
	TOT PCT	18.3	21.6	9.0	10.7	21.9	11.3	2.5	4.1	.0	.8	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	.0	.0	.0	.0	*	.0	.1	.2	
	4-10	*	.0	.0	.0	.0	.0	.0	*	.0		.1	
	11-21	.0	.0	.0	*	.2	.1	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	*	.2	.1	.0	.1	.0	.1	.6	
1/2<1	0-3	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	4-10	.1	.0	.0	*	.2	.2	.0	*	.0		.7	
	11-21	.5	.2	.0	.0	.1	.0	.1	*	.0		1.0	
	22+	.2	.0	.1	.0	*	.1	.0	.0	.0		.4	
	TOT %	.9	.2	.1	.1	.3	.4	.1	.1	.0	.0	2.2	
1<2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.2	.1	*	.1	*	.0	.0	*	.0		.5	
	11-21	.4	.1	*	.2	.0	.0	.0	.1	.0		.8	
	22+	.2	.2	.0	.0	.2	.1	.0	.0	.0		.6	
	TOT %	.7	.5	.1	.2	.2	.1	.0	.1	.0	.0	2.0	
2<5	0-3	.1	.1	.1	.0	.0	.0	.0	.1	.0	.1	.4	
	4-10	.6	.2	.2	.2	.1	.1	.1	.1	.0		1.6	
	11-21	.2	.3	.0	.1	.2	*	.0	.0	.0		.9	
	22+	*	.2	*	*	.3	.1	.0	.0	.0		.8	
	TOT %	.9	.8	.3	.3	.7	.3	.1	.2	.0	.1	3.7	
5<10	0-3	.1	.7	.4	.1	.3	.0	.0	.1	.0	.2	1.9	
	4-10	2.2	3.1	2.1	1.9	2.3	.9	.4	.9	.0		13.7	
	11-21	3.3	4.0	1.2	1.4	3.7	2.1	.3	.8	.0		16.8	
	22+	.7	1.2	.2	.4	2.0	.6	.3	*	.0		5.5	
	TOT %	6.3	8.9	3.9	3.8	8.3	3.6	1.0	1.8	.0	.2	37.9	
10+	0-3	.5	.6	.5	.4	.4	.4	.0	.1	.0	1.1	3.9	
	4-10	3.5	4.9	4.0	3.1	4.6	1.8	.4	1.1	.0		23.4	
	11-21	3.9	4.8	.9	2.7	4.9	2.7	.4	.6	.0		21.0	
	22+	1.0	.7	.0	.5	1.6	1.3	.2	*	.0		5.3	
	TOT %	8.9	11.1	5.4	6.7	11.5	6.1	1.0	1.8	.0	1.1	53.6	
	TOT OBS												1216
	TOT PCT	17.8	21.6	9.9	11.2	21.2	10.5	2.2	4.1	.0	1.5	100.0	

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PERIOD: (PRIMARY) 1898-1971
(OVER-ALL) 1856-1971

AREA 0008 CAPE HOWE NE
36.05 150.7E

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
00&03	1.0	.0	1.9	5.8	14.6	5.8	3.9	1.0	.0	.0	34.0	66.0	103
06&09	.0	.0	1.7	6.9	10.3	6.0	6.0	.0	2.6	.9	34.5	65.5	116
12&15	.7	.7	2.2	10.1	15.8	8.6	7.2	.7	2.2	.0	48.2	51.8	139
18&21	.0	.0	.0	5.8	16.3	4.8	2.9	.0	.0	.0	29.8	70.2	104
TOT	2	1	7	34	66	30	24	2	6	1	173	289	462
PCT	.4	.2	1.5	7.4	14.3	6.5	5.2	.4	1.3	.2	37.4	62.6	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
00&03	.9	3.7	.0	5.0	32.9	57.5	219
06&09	.3	2.8	2.2	3.0	44.2	47.5	362
12&15	.6	1.0	2.6	3.5	30.1	62.2	312
18&21	.5	2.4	2.1	3.2	43.2	48.5	375
TOT	7	30	24	45	488	674	1268
PCT	.6	2.4	1.9	3.5	38.5	53.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.1	3.4	13.6	28.4	58.0	88
06&09	.0	2.3	12.5	31.8	55.7	88
12&15	.7	3.7	15.6	34.1	50.4	135
18&21	.0	.0	10.7	28.6	60.7	84
TOT	2	10	53	123	219	395
PCT	.5	2.5	13.4	31.1	55.4	100.0

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
80/84	.0	.0	.5	.2	.0	.2	.0	.0	5	.8
75/79	.0	.0	.2	.8	.7	2.7	1.7	.3	38	6.4
70/74	.0	.0	.2	.7	3.7	6.5	16.1	10.1	222	37.2
65/69	.0	.0	.0	2.5	7.9	12.8	12.1	5.5	243	40.8
60/64	.0	.0	.0	1.0	3.9	3.7	2.5	2.0	78	13.1
55/59	.0	.0	.0	.2	.5	.5	.5	.0	10	1.7
TOTAL	0	0	5	32	99	157	196	107	596	100.0
PCT	.0	.0	.8	5.4	16.6	26.3	32.9	18.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.2	.2	.0	.0	.0	.0	.0	.0	.2
2.1	2.6	.5	.4	.3	.2	.1	.3	.0	.0
10.6	12.2	3.4	2.3	3.8	1.8	.6	1.7	.0	.8
4.4	5.9	3.2	6.5	13.1	5.6	.6	1.0	.0	.3
.3	.5	.6	1.8	6.1	3.1	.5	.2	.0	.0
.1	.0	.0	.1	.4	.6	.4	.1	.0	.0
17.7	21.3	8.0	11.2	23.7	11.3	2.1	3.3	.0	1.3

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	84	81	77	70	63	60	56	70.3	373
06&09	81	79	76	70	64	61	58	70.1	474
12&15	82	76	73	69	63	60	55	68.7	373
18&21	83	78	75	68	61	58	55	68.2	518
TOT	84	79	76	69	63	59	55	69.3	1738

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	10.9	20.2	21.8	40.3	6.7	75	119
06&09	.0	7.1	18.9	32.0	26.0	16.0	77	169
12&15	.0	2.3	12.6	23.6	39.1	22.4	81	174
18&21	.0	5.7	14.6	25.9	29.1	24.7	79	158
TOT	0	38	101	162	206	113	78	620

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PERIOD: (PRIMARY) 1898-1971
(OVER-ALL) 1856-1971

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36.0S 150.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) 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	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.3	.1	.0	.0	4	.0	.4
9/10	.0	.0	.0	.0	.1	.1	.0	.0	2	.0	.2
7/8	.0	.0	.0	.0	.2	.1	.6	.0	9	.0	1.0
6	.0	.0	.0	.1	.3	.4	.4	.0	12	.0	1.3
5	.0	.0	.0	.2	.5	1.0	.3	.1	20	.1	2.0
4	.0	.0	.0	.1	1.2	1.6	.3	.1	31	.0	3.3
3	.0	.0	.2	.6	1.9	1.7	1.0	.0	51	.1	5.4
2	.0	.0	.5	1.6	4.5	3.6	.3	.0	99	.5	10.1
1	.0	.1	.2	1.1	4.8	2.7	.2	.0	85	.1	9.0
0	.0	.0	.9	3.4	7.2	3.2	.1	.0	138	.3	14.5
-1	.0	.0	.3	3.2	4.5	.8	.0	.0	82	.2	8.6
-2	.0	.1	1.4	5.7	4.9	.6	.1	.0	120	.6	12.2
-3	.0	.1	1.2	4.4	3.1	.0	.0	.0	82	.3	8.5
-4	.0	.2	1.3	4.4	1.0	.1	.0	.0	65	.1	6.9
-5	.0	.1	1.9	2.9	1.1	.1	.0	.0	57	.1	6.0
-6	.0	.3	1.2	2.1	.2	.0	.0	.0	36	.2	3.6
-7/-8	.0	.2	2.1	.3	.1	.1	.0	.0	27	.0	2.9
-9/-10	.1	.3	.2	.1	.1	.1	.0	.0	9	.0	1.0
-11/-13	.0	.0	.1	.0	.1	.0	.0	.0	2	.0	.2
TOTAL	1	14	108	283	338	153	32	3	932	26	906
PCT	.1	1.5	11.6	30.4	36.3	16.4	3.4	.3	100.0	2.8	97.2

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.3	1.7	.6	.0	.0	.0	2.6
3-4	.0	2.7	3.9	.0	.0	.0	6.6
5-6	.0	.9	2.9	.4	.0	.0	4.2
7	.0	.0	.9	.6	.0	.0	1.5
8-9	.0	.0	.5	.5	.0	.0	1.1
10-11	.0	.0	.7	.0	.0	.0	.7
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
TOT PCT	.3	5.3	9.5	1.5	.0	.0	16.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.4	.0	.0	.0	1.5
1-2	.4	3.4	.9	.0	.0	.0	4.8
3-4	.0	1.9	6.6	.0	.0	.0	8.6
5-6	.0	.9	2.0	.4	.0	.0	3.3
7	.0	.0	1.6	1.1	.0	.0	2.7
8-9	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	7.4	11.7	1.7	.0	.0	21.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.4	3.7	.3	.0	.0	.0	4.3
3-4	.0	1.7	.0	.0	.0	.0	1.7
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.4	.0	.0	.0	.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
TOT PCT	.4	6.4	.8	.0	.0	.0	7.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.1	.0	.0	.0	.0	1.4
1-2	.0	.9	1.9	.0	.0	.0	2.7
3-4	.0	1.1	1.2	.0	.0	.0	2.3
5-6	.0	1.1	.4	.1	.0	.0	1.5
7	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.4	.7	.0	.0	1.1
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
TOT PCT	.4	4.1	4.7	.8	.0	.0	9.9

PERIOD: (OVER-ALL) 1963-1971

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TABLE 18 (CONT)

AREA 0008 CAPE HOWE NE
36.0S 150.7E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.4	.3	.0	.0	.0	1.3
1-2	.0	3.9	2.0	.0	.0	.0	5.9
3-4	.0	4.1	5.0	.0	.0	.0	9.1
5-6	.0	.7	1.1	.9	.0	.0	2.7
7	.0	.0	1.9	1.3	.0	.0	3.2
8-9	.0	.0	1.2	.4	.0	.0	1.6
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.7	.0	.0	.7
17-19	.0	.0	.0	.4	.0	.0	.4
20-22	.0	.0	.0	.4	.7	.0	1.1
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
TOT PCT	.7	9.0	11.5	3.5	1.4	.0	26.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.4	.0	.0	.0	1.1
1-2	.4	.5	.7	.0	.0	.0	1.6
3-4	.4	1.2	2.2	.0	.0	.0	3.8
5-6	.0	.4	2.5	1.5	.0	.0	4.3
7	.0	.0	.7	.4	.0	.0	1.1
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.4	.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
TOT PCT	1.1	2.5	6.6	2.0	.4	.0	12.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.0	.6	.4	.0	.0	1.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.4	.4	.0	.0	.0	.7	
1-2	.0	1.1	.0	.0	.0	.0	1.1	
3-4	.0	.0	1.1	.0	.0	.0	1.1	
5-6	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	.4	.0	.0	.0	.4	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	.0	1.4	1.9	.0	.0	.0	3.4	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.8	4.1	1.4	.0	.0	.0	10.3	
1-2	1.7	14.8	6.2	.0	.0	.0	22.8	
3-4	.3	12.4	19.7	.0	.0	.0	32.4	
5-6	.0	3.8	9.3	3.1	.0	.0	16.2	
7	.0	.0	6.6	3.4	.0	.0	10.0	
8-9	.0	.0	2.1	1.4	.0	.0	3.4	
10-11	.0	.0	1.0	1.0	.0	.0	2.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.3	.0	.0	1.0	.0	1.4	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.3	.7	.0	1.0	
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	
								290
TOT PCT	6.9	35.5	46.2	9.7	1.7	.0	100.0	

PERIOD: (OVER-ALL) 1949-1971

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	9.0	11.5	7.7	3.8	1.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	130	4
6-7	.0	.3	6.3	11.2	7.1	3.8	1.1	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	6
8-9	.0	.3	.8	3.6	4.7	2.7	2.2	.8	.8	.3	.3	.8	.0	.0	.0	.0	.0	.0	.0	63	8
10-11	.0	.0	1.6	1.4	2.5	1.4	.8	.5	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	7
12-13	.0	.0	.5	.3	.5	.0	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
>13	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
INDET	.8	.8	.8	.8	.5	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	4
TOTAL	7	38	79	91	70	37	21	8	9	1	1	3	0	0	0	0	0	0	0	365	6
PCT	1.9	10.4	21.6	24.9	19.2	10.1	5.8	2.2	2.5	.3	.3	.8	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1857-1973

AREA 0008 CAPE HOWE NE
36.1S 150.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.8	.8	.2	.0	.0	.0	.0	2.7	.4	2.7	4.7	.0	7.5		.0	82.1
NE	3.7	3.0	.9	.0	.0	.0	.0	7.5	.0	2.2	4.4	.0	2.3		.0	83.7
E	3.2	2.8	1.4	.0	.0	.0	.0	6.9	.7	.5	3.7	.0	.0		.0	88.7
SE	3.1	3.9	.4	.0	.0	.0	.0	7.4	.9	.7	.7	.0	.0		.0	90.2
S	7.1	5.9	1.1	.0	.0	.0	.0	13.4	1.9	2.5	.3	.0	.6		.0	82.2
SW	6.1	3.7	2.2	.0	.0	.0	.0	12.0	.5	5.4	.2	.0	.2		.0	84.3
W	6.6	5.0	3.3	.0	.0	.0	.0	13.2	3.3	.8	.0	.0	.0		.0	83.5
NW	.8	.0	.0	.0	.0	.0	.0	.8	.0	7.5	2.4	.0	.0		.0	90.1
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	7.1		.0	92.9
TOT PCT	4.2	3.3	1.0	.0	.0	.0	.0	8.2	.9	2.6	2.3	.0	2.1		.0	84.7
TOT OBS:	1285															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.9	2.6	.9	.0	.0	.0	.0	6.5	1.7	.0	2.2	.0	3.5		.0	86.1
06&09	4.9	2.8	1.3	.0	.0	.0	.0	8.4	.8	1.8	1.5	.0	2.6		.0	85.9
12&15	2.4	3.9	1.2	.0	.0	.0	.0	7.5	.6	3.3	2.1	.0	2.7		.0	84.4
18&21	4.9	4.2	.8	.0	.0	.0	.0	9.9	.5	4.2	3.4	.0	.5		.0	82.3
TOT PCT	4.1	3.4	1.0	.0	.0	.0	.0	8.3	.8	2.5	2.3	.0	2.2		.0	84.6
TOT OBS:	1340															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	7.2	7.9	1.5	.5	.0		17.9	13.2	23.2	19.5	15.8	16.8	19.4	16.8	16.7	18.6
NE	1.2	7.0	6.4	1.4	.2	*		16.2	11.9	8.0	16.3	21.7	21.6	17.7	18.0	11.5	10.7
E	1.0	5.4	2.0	.6	*	*		9.0	9.9	6.0	9.0	10.2	12.1	5.5	11.0	8.1	7.5
SE	.9	5.2	3.9	1.0	.2	.0		11.2	11.6	4.4	9.7	11.9	17.0	13.5	12.0	9.4	9.5
S	.6	6.6	9.8	3.6	.7	.2		21.4	15.6	25.9	17.2	23.6	20.5	25.9	19.0	21.2	22.6
SW	.3	3.9	4.4	3.1	.6	.1		12.4	16.8	17.9	16.4	9.7	6.3	11.6	8.6	15.2	14.2
W	.4	1.8	1.5	.9	.2	.1		4.9	14.6	6.6	5.3	3.6	2.8	2.6	3.8	6.8	7.3
NW	.5	3.0	1.6	.4	.1	.0		5.6	10.5	5.3	5.9	2.7	3.0	2.2	6.8	9.0	8.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0	2.7	.6	.9	.0	1.6	4.0	2.0	.9
TOT OBS	144	811	759	250	51	9	2024		13.2	113	338	329	232	191	250	351	220
TOT PCT	7.1	40.1	37.5	12.4	2.5	.4		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.9	10.1	3.9	.9	.2		17.9	13.2	20.5	16.2	17.9	17.5
NE	4.0	8.5	3.2	.5	*		16.2	11.9	14.2	21.6	17.9	11.2
E	3.2	4.5	1.0	.1	*		9.0	9.9	8.3	11.0	8.6	7.9
SE	3.0	5.8	2.0	.3	.1		11.2	11.6	8.4	14.0	12.6	9.5
S	2.6	10.0	6.9	1.6	.4		21.4	15.6	19.3	22.3	22.0	21.8
SW	1.7	4.6	4.1	1.8	.2		12.4	16.8	16.8	8.3	9.9	14.8
W	1.1	1.9	1.2	.5	.1		4.9	14.6	5.7	3.3	3.3	7.0
NW	1.8	3.0	.6	.2	*		5.6	10.5	5.8	2.8	4.8	8.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	1.1	.5	2.9	1.6
TOT OBS	442	978	463	120	21	2024		13.2	451	361	441	571
TOT PCT	21.8	48.3	22.9	5.9	1.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1857-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.1	6.9	38.4	35.0	14.9	3.1	.7	13.8	100.0	431
06&09	.5	5.5	36.9	40.5	14.6	1.6	.4	13.7	100.0	561
12&15	2.9	5.2	40.4	38.3	9.8	2.9	.5	12.7	100.0	441
18&21	1.6	5.1	44.3	35.9	10.2	2.6	.4	12.6	100.0	571
TOT	30	114	811	759	250	51	9	13.2		2024
PCT	1.5	5.6	40.1	37.5	12.4	2.5	.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	11.1	2.7	3.9	1.9		2.8
NE	6.5	2.3	3.1	2.2		3.5
E	2.5	1.4	2.2	1.9		4.5
SE	3.6	.6	2.8	2.8		4.5
S	5.6	2.3	7.8	7.9		5.3
SW	3.9	3.5	3.9	3.1		4.5
W	.4	.9	1.8	.9		5.4
NW	3.0	.9	.6	.5		2.5
VAR	.0	.0	.0	.0		.0
CALM	.9	.4	.4	.0		2.2
TOT OBS	207	83	146	118	554	4.1
TOT PCT	37.4	15.0	26.4	21.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.0	.0	.9	1.7	.2	.8	.0	.1	.0	15.7	
NE	.0	.0	*	.4	1.6	.9	*	.0	*	.0	11.0	
E	.0	.0	.4	.8	1.4	.9	.2	.2	.0	.0	4.1	
SE	*	.0	.1	.6	1.5	1.4	.1	.2	.0	.0	5.9	
S	.3	.0	.4	2.6	4.4	3.3	1.4	.7	.0	.3	10.2	
SW	.0	.0	.3	1.6	1.9	1.3	.9	.2	.0	*	8.2	
W	.0	.0	.0	.5	.7	.3	.2	.2	.0	.0	2.0	
NW	.0	.0	.0	.4	.0	.2	*	.0	.0	.2	4.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.4	
TOT OBS	3	0	7	43	74	47	20	9	1	3	347	554
TOT PCT	.5	.0	1.3	7.8	13.4	8.5	3.6	1.6	.2	.5	62.6	100.0

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 >50YD	* OR >0
* OR >6500	.7	.7	.7	.7	.7	.7	.7	.7
* OR >5000	2.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3
* OR >3500	5.5	5.9	5.9	5.9	5.9	5.9	5.9	5.9
* OR >2000	11.8	14.3	14.6	14.6	14.6	14.6	14.6	14.6
* OR >1000	21.8	26.8	27.9	27.9	27.9	27.9	27.9	27.9
* OR >600	27.5	34.3	35.7	35.7	35.7	35.7	35.7	35.7
* OR >300	28.4	35.5	37.0	37.0	37.0	37.0	37.0	37.0
* OR >150	28.4	35.5	37.0	37.0	37.0	37.0	37.0	37.0
* OR > 0	28.6	36.1	37.5	37.5	37.5	37.5	37.5	37.5
TOTAL	160	202	210	210	210	210	210	210

TOTAL NUMBER OF OBS: 560 PCT FREQ NH <5/8: 62.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
17.1	15.8	13.2	10.0	6.4	6.9	6.6	8.3	15.4	.3	638

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1857-1973

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	.0	.1	.0	.0	*	.0	.0	.2	
	NO PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.0	.0	.0	.1	.0	.0	*	.0	.0	.3	
1/2<)	PCP	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.7	.5	.2	.1	.0	.0	.0	.1	.0	.0	1.6	
	TOT %	.8	.7	.2	.1	.0	.0	.0	.1	.0	.0	1.9	
1<2	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	.4	*	.1	.0	.0	.0	.0	.0	.0	.1	.5	
	TOT %	.4	*	.1	.0	.0	.1	.0	.0	.0	.1	.6	
2<5	PCP	.1	.0	.0	.1	.6	.3	.1	.0	.0	.0	1.1	
	NO PCP	.3	.3	.1	.2	.3	.0	.0	.0	.0	.0	1.2	
	TOT %	.4	.3	.1	.3	.9	.3	.1	.0	.0	.0	2.3	
5<10	PCP	.3	.9	.4	.5	1.7	.8	.3	.0	.0	.0	4.7	
	NO PCP	8.1	7.6	3.6	4.0	7.4	3.7	1.3	2.0	.0	.2	37.8	
	TOT %	8.4	8.4	3.9	4.5	9.1	4.6	1.5	2.0	.0	.2	42.6	
10+	PCP	.1	.3	.2	.2	.6	.3	.3	.0	.0	.0	1.9	
	NO PCP	9.6	6.9	3.9	5.5	11.1	7.0	2.8	2.7	.0	.9	50.5	
	TOT %	9.7	7.2	4.1	5.7	11.6	7.3	3.1	2.7	.0	.9	52.4	
	TOT OBS												1285
	TOT PCT	19.8	16.6	8.5	10.6	21.6	12.2	4.7	4.9	.0	1.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.0	.0	.0	.0	.0	*	.0		.2	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.0	.1	.0	.0	*	.0	.0	.3	
1/2<1	0-3	.1	.1	.0	.0	.0	.0	.0	*	.0	.0	.2	
	4-10	.3	.1	.1	.0	.0	.0	.0	.0	.0		.5	
	11-21	.2	.3	.0	.1	.0	.0	.0	.0	.0		.6	
	22+	.1	.1	*	.0	.1	.0	.0	.1	.0		.3	
	TOT %	.7	.6	.2	.1	.1	.0	.0	.1	.0	.0	1.7	
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.3	.0	.0	.0	.0	.1	.0	.0	.0		.3	
	22+	.1	*	.0	*	.1	.0	.0	.0	.0		.3	
	TOT %	.4	*	.1	*	.1	.1	.0	.0	.0	.1	.8	
2<5	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	.2	*	.1	.1	.2	.3	.0	.0	.0		.8	
	11-21	.2	.3	.2	.1	.3	.1	.0	.0	.0		1.1	
	22+	.0	.0	.0	.2	.4	*	.1	.1	.0		.8	
	TOT %	.4	.3	.3	.4	.9	.4	.1	.1	.0	.0	2.7	
5<10	0-3	.4	.8	.6	.4	.3	.2	.2	.4	.0	.3	3.5	
	4-10	3.0	2.0	1.9	1.8	1.9	1.1	.5	.6	.0		13.0	
	11-21	3.3	4.1	.9	1.3	4.2	1.5	.5	.6	.0		16.5	
	22+	1.0	.7	.1	.6	2.1	1.4	.1	.1	.0		6.1	
	TOT %	7.7	7.6	3.5	4.2	8.5	4.1	1.3	1.8	.0	.3	39.0	
10+	0-3	.4	.4	.4	.5	.4	*	.2	.2	.0	1.2	3.8	
	4-10	4.2	4.5	2.9	3.1	4.5	2.6	1.0	1.9	.0		24.7	
	11-21	4.3	2.3	.5	2.4	5.3	2.8	1.2	1.0	.0		19.8	
	22+	.8	.6	.5	.4	2.1	1.9	.8	.2	.0		7.2	
	TOT %	9.8	7.8	4.2	6.3	12.3	7.3	3.3	3.3	.0	1.2	55.5	
	TOT OBS												1466
	TOT PCT	19.1	16.3	8.2	11.0	22.0	11.9	4.7	5.3	.0	1.6	100.0	

MARCH

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1857-1973

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36.15 150.7E

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
00&03	.0	.0	.8	7.5	12.5	9.2	3.3	1.7	.0	.8	35.8	64.2	120
06&09	.0	.0	1.2	3.1	10.6	6.8	1.9	1.9	.6	.0	26.1	73.9	161
12&15	.0	.0	1.1	8.6	13.1	7.0	2.7	1.6	.0	.5	36.6	63.4	186
18&21	2.1	.0	1.4	9.8	10.5	9.8	5.6	.7	.0	.7	40.6	59.4	149
TOT	3	0	7	44	75	49	20	9	1	3	211	399	610
PCT	.5	.0	1.1	7.2	12.3	8.0	3.3	1.5	.2	.5	34.6	65.4	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
00&03	.4	1.2	.4	2.4	36.8	58.9	253
06&09	.0	1.6	.4	3.8	44.8	49.3	446
12&15	.0	1.9	1.3	1.9	35.2	59.8	378
18&21	.7	2.0	.9	2.3	41.9	52.3	444
TOT	4	26	12	40	612	827	1521
PCT	.3	1.7	.8	2.6	40.2	54.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	.9	11.9	27.5	60.6	109
06&09	.0	1.4	7.9	23.6	68.6	140
12&15	.0	1.1	10.1	28.1	61.8	178
18&21	2.3	3.8	15.8	27.8	56.4	133
TOT	3	10	63	150	347	560
PCT	.5	1.8	11.3	26.8	62.0	100.0

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
85/89	.0	.1	.0	.1	.0	.0	.0	.0	2	.3
80/84	.0	.0	.0	.0	.1	.0	.1	.0	2	.3
75/79	.0	.0	.1	.3	.3	.9	1.5	.1	24	3.2
70/74	.0	.1	.0	.8	4.4	7.0	11.8	5.7	223	29.8
65/69	.0	.1	.5	1.6	7.6	13.6	15.6	5.1	331	44.3
60/64	.0	.0	.3	1.9	5.3	6.8	3.6	1.9	148	19.8
55/59	.0	.0	.0	.3	.4	.8	.8	.1	18	2.4
TOTAL	0	3	7	37	136	218	250	97	748	100.0
PCT	.0	.4	.9	4.9	18.2	29.1	33.4	13.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	*	.0	.0	.0	.0	.1	*	.0	.0
.0	.0	.0	.0	.1	.0	.0	.1	.0	.0
1.8	.9	.0	.2	.2	*	.0	.0	.0	.1
10.1	7.7	2.1	2.6	3.3	1.5	.6	1.4	.0	.5
5.7	4.7	4.5	4.8	13.6	5.9	2.1	2.2	.0	.8
.6	.5	.9	1.7	8.7	5.4	1.4	.4	.0	.1
.0	.1	.0	.0	.3	.9	.9	.1	.0	.0
18.3	13.9	7.5	9.3	26.2	13.7	5.1	4.3	.0	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	81	77	76	69	61	57	57	69.0	449
06&09	88	79	75	69	62	57	55	68.8	566
12&15	79	75	73	68	61	59	56	67.7	445
18&21	78	75	73	67	60	57	55	66.9	587
TOT	88	77	75	68	61	57	55	68.0	2047

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	8.1	18.4	28.7	34.6	10.3	76	136
06&09	.0	10.6	22.6	27.9	28.8	10.1	74	208
12&15	.0	3.6	16.8	32.3	32.7	14.5	78	220
18&21	.0	3.3	14.3	27.6	38.1	16.7	80	210
TOT	0	48	139	226	259	102	77	774

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1857-1973

AREA 0008 CAPE HOWE NE
36.1S 150.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	85 88	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	.0	.2	3	.0	.3
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.1	.0	.0	.1	.0	.0	.0	2	.0	.2
7/8	.0	.0	.0	.1	.5	.3	.3	.0	.0	14	.2	1.0
6	.0	.0	.0	.0	.1	.6	.3	.0	.0	11	.0	1.0
5	.0	.0	.0	.2	1.0	1.2	.4	.0	.0	32	.1	2.7
4	.0	.0	.3	.6	1.0	1.1	.1	.0	.0	36	.0	3.1
3	.0	.0	.3	.5	1.5	1.0	.3	.0	.0	41	.1	3.5
2	.0	.0	.2	1.9	3.5	1.5	.2	.1	.0	84	.6	6.7
1	.0	.0	.2	1.9	4.5	2.3	.0	.0	.0	103	.4	8.5
0	.0	.1	.5	4.4	6.3	1.9	.0	.0	.0	152	.4	12.8
-1	.0	.0	.6	2.3	5.0	.5	.0	.0	.0	97	.2	8.3
-2	.0	.3	2.3	4.5	4.4	.7	.0	.0	.0	140	.2	12.0
-3	.1	.2	1.3	4.4	2.5	.3	.0	.0	.0	101	.1	8.7
-4	.0	.4	3.4	4.8	1.2	.1	.0	.0	.0	114	.0	9.9
-5	.0	.5	2.9	3.7	.6	.0	.0	.0	.0	88	.2	7.5
-6	.0	.5	1.5	1.0	.3	.0	.0	.0	.0	37	.0	3.2
-7/-8	.0	.8	2.3	1.2	.2	.0	.0	.0	.0	51	.0	4.4
-9/-10	.0	.9	1.4	.5	.1	.1	.0	.0	.0	34	.0	3.0
-11/-13	.0	.2	.4	.1	.0	.0	.0	.0	.0	8	.0	.7
TOTAL	1		202		374		18		3		28	1121
		44		369		137		1		1149		
PCT	.1	3.8	17.6	32.1	32.6	11.9	1.6	.1	.3	100.0	2.4	97.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.9	.0	.0	.0	.0	1.4
1-2	.0	4.9	.3	.0	.0	.0	5.2
3-4	.0	2.5	8.0	.5	.0	.0	11.0
5-6	.0	.3	2.1	.4	.0	.0	2.7
7	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.5	8.6	11.1	1.1	.0	.0	21.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	.0	.0	.0	.0	1.1
1-2	.0	4.7	.5	.0	.0	.0	5.2
3-4	.0	1.5	2.9	.6	.0	.0	4.9
5-6	.0	.0	1.3	.4	.0	.0	1.7
7	.0	.0	.1	.3	.0	.0	.3
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.1	7.0	5.1	1.3	.0	.0	13.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5
1-2	.0	2.3	.4	.0	.0	.0	2.7
3-4	.0	1.5	.4	.0	.0	.0	1.9
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	.5	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.2	4.1	1.3	.5	.0	.0	6.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.3
1-2	.0	2.6	.1	.0	.0	.0	2.7
3-4	.3	1.5	1.8	.1	.0	.0	3.6
5-6	.0	.3	.9	.1	.0	.0	1.3
7	.1	.0	.3	.1	.0	.0	.5
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.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	.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
TOT PCT	.4	4.6	3.1	.3	.1	.0	8.6

PERIOD: (OVER-ALL) 1963-1973

MARCH

TABLE 18 (CONT)

AREA 0008 CAPE HOWE NE
36.1S 150.7E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.0	.0	.0	.0	.8	.0	.5	.0	.0	.0	.0	.5
1-2	.0	2.5	1.5	.0	.0	.0	4.0	.0	2.2	.1	.0	.0	.0	2.3
3-4	.0	1.5	3.2	.6	.0	.0	5.3	.0	1.1	2.7	.1	.0	.0	3.9
5-6	.0	.7	4.1	1.4	.2	.0	6.4	.0	.1	2.2	1.2	.1	.0	3.5
7	.2	.0	.8	2.5	.3	.0	3.8	.0	.0	.8	.8	.3	.0	1.9
8-9	.0	.0	.7	.5	.5	.0	1.6	.0	.0	.1	.1	.1	.0	.3
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	1.6	.3	.0	1.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.4	.3	.3	.9	.0	.0	.0	.4	.0	.0	.4
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	.7	.8	1.5	.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
TOT PCT	.4	5.4	10.2	5.7	1.9	1.1	24.5	.0	3.8	6.0	4.5	.7	.0	15.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	.3	.0	.0	.0	.0	.5	.3	.5	.3	.0	.0	.0	1.1	
1-2	.0	.2	.0	.0	.0	.0	.2	.3	2.1	.0	.0	.0	.0	2.4	
3-4	.0	.3	.9	.0	.0	.0	1.1	.0	.4	1.1	.0	.0	.0	1.5	
5-6	.0	.0	.7	.4	.0	.0	1.1	.0	.0	.1	.1	.0	.0	.1	
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.3	.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	.2	.0	.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	
TOT PCT	.3	.7	1.7	1.3	.0	.0	4.0	.5	3.1	1.5	.1	.0	.0	5.2	98.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.7	4.2	.3	.0	.0	.0	8.2	
1-2	.8	21.4	2.9	.0	.0	.0	25.1	
3-4	.3	10.0	20.8	1.8	.0	.0	33.0	
5-6	.0	1.3	11.6	4.0	.3	.0	17.2	
7	.3	.0	2.9	4.2	.5	.0	7.9	
8-9	.0	.0	1.1	1.3	.5	.0	2.9	
10-11	.0	.0	.0	2.1	.3	.0	2.4	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	1.1	.3	.3	1.6	
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	.8	.8	1.6	
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	
								379
TOT PCT	5.0	36.9	39.6	14.8	2.6	1.1	100.0	

PERIOD: (OVER-ALL) 1949-1973

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	10.3	14.4	7.3	2.9	1.1	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	196	4
6-7	.0	.8	6.9	13.6	6.1	2.9	.8	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	169	6
8-9	.0	.4	2.1	4.2	4.4	1.9	1.1	1.0	1.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	91	9
10-11	.0	.0	.6	1.1	1.3	1.5	.6	.8	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	33	8
12-13	.0	.0	.0	.2	.4	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
>13	.0	.0	.0	.2	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
INDET	1.0	.4	.6	1.0	.8	.4	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	5
TOTAL	9	62	128	144	83	43	19	16	10	0	0	1	7	0	0	0	0	0	0	522	6
PCT	1.7	11.9	24.5	27.6	15.9	8.2	3.6	3.1	1.9	.0	.0	.2	1.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1857-1972

AREA 0008 CAPE HOWE NE
36.0S 150.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.6	3.0	.5	.0	.0	.0	.0	5.1	.9	3.8	1.1	.0	1.1	.0		89.0
NE	3.1	1.5	3.1	.0	.0	.0	.0	7.7	.0	1.5	.0	.0	.0	.0		90.8
E	6.1	3.8	1.5	.0	.0	.0	.0	11.4	1.5	.8	.0	.0	.0	.0		86.4
SE	6.3	9.2	2.7	.0	.0	.0	.0	18.3	2.5	1.7	1.7	.0	.0	.0		75.8
S	5.1	6.5	1.4	.0	.0	.0	.0	12.9	3.0	1.6	.9	.0	.5	.0		81.5
SW	3.3	12.3	1.5	.0	.0	.0	.0	17.1	.8	1.6	.0	.0	.5	.0		80.7
W	8.4	4.5	1.0	.0	.0	.0	.0	13.9	.0	4.0	2.0	.0	.0	.0		81.7
NW	5.2	1.9	.0	.0	.0	.0	.0	7.1	.3	5.8	.0	.0	.0	.0		89.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	7.1	.0	.0	.0	.0	.0	.0	7.1	.0	7.1	.0	.0	.0	.0		85.7
TOT PCT	4.5	5.9	1.4	.0	.0	.0	.0	11.9	1.3	2.5	.8	.0	.4	.0		83.9
TOT OBS:	1059															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00C03	3.1	6.6	1.3	.0	.0	.0	.0	11.0	.4	.0	.9	.0	.4	.0		87.3
06E09	3.7	6.2	1.9	.0	.0	.0	.0	11.7	.9	1.5	.9	.0	.6	.0		84.3
12E15	6.3	4.2	.8	.0	.0	.0	.0	11.3	2.9	4.6	.0	.0	.4	.0		82.1
18E21	4.7	6.7	1.3	.0	.0	.0	.0	12.8	1.3	3.7	1.7	.0	.0	.0		82.2
TOT PCT	4.4	6.0	1.4	.0	.0	.0	.0	11.7	1.4	2.5	.9	.0	.4	.0		83.9
TOT OBS:	1090															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.4	6.9	7.0	.8	.4	*		16.5	11.8	11.7	18.8	14.6	17.4	24.8	18.9	14.1	12.9
NE	.7	6.0	2.6	.6	*	.0		9.9	10.1	9.5	8.6	15.2	13.0	12.3	7.8	7.4	5.1
E	.7	4.2	1.6	.4	.4	*		7.3	11.2	3.5	9.0	10.6	8.8	6.9	5.4	6.3	4.7
SE	.4	5.1	3.7	.9	.2	.1		10.4	12.8	6.9	8.4	13.3	13.2	7.3	10.9	9.8	11.0
S	1.0	7.0	8.4	2.8	.7	.1		20.0	14.1	24.6	22.1	20.2	17.4	22.1	21.5	16.2	19.0
SW	.5	5.3	5.4	3.6	1.1	.3		16.3	17.1	22.3	12.8	14.3	13.5	14.2	13.7	21.4	20.2
W	1.0	3.4	3.5	1.3	.3	.2		9.7	14.0	10.0	8.6	7.4	6.2	4.2	12.7	13.4	14.0
NW	.7	3.7	2.7	.6	.0	*		7.8	11.0	9.7	10.6	4.4	6.5	5.8	6.5	8.5	10.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0	1.8	1.1	.0	3.9	2.3	2.6	2.9	2.3
TOT OBS	137	676	567	179	51	13	1623		12.9	113	268	263	205	130	193	279	172
TOT PCT	8.4	41.7	34.9	11.0	3.1	.8		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.2	8.5	3.4	.3	.2		16.5	11.8	16.7	15.9	21.3	13.6
NE	3.3	5.2	.9	.4	.0		9.9	10.1	8.9	14.3	9.6	6.5
E	3.2	2.7	.9	.3	.2		7.3	11.2	7.3	9.8	6.0	5.7
SE	2.3	5.4	2.1	.6	.2		10.4	12.8	7.9	13.2	9.4	10.3
S	4.2	8.9	5.1	1.6	.2		20.0	14.1	22.8	19.0	21.7	17.3
SW	2.2	6.6	4.9	2.2	.4		16.3	17.1	15.6	13.9	13.9	21.0
W	2.7	3.8	2.2	.6	.4		9.7	14.0	9.0	6.9	9.3	13.6
NW	2.2	4.0	1.3	.2	*		7.8	11.0	10.4	5.3	6.2	9.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.0						2.0	.0	1.3	1.7	2.5	2.7
TOT OBS	427	732	337	101	26	1623		12.9	381	468	323	451
TOT PCT	26.3	45.1	20.8	6.2	1.6		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1857-1972

AREA 0008 CAPE HOWE NE
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.3	9.7	38.3	35.4	11.3	2.4	1.6	12.8	100.0	381
06&09	1.7	5.3	40.6	37.0	10.5	4.3	.6	13.5	100.0	468
12&15	2.5	4.3	41.8	37.2	11.8	2.2	.3	12.9	100.0	323
18&21	2.7	6.2	45.5	30.8	10.9	3.3	.7	12.5	100.0	451
TOT	33	104	676	567	179	[illegible]	13	12.9		1623
PCT	2.0	6.4	41.7	34.9	11.0	3.1	.8		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	11.1	3.5	2.1	.4		2.1
NE	6.3	2.8	1.6	1.3		2.9
E	1.0	.2	1.8	2.8		6.2
SE	1.6	1.2	3.6	2.0		5.3
S	7.3	3.2	6.7	4.5		4.3
SW	5.9	3.5	7.1	3.0		4.5
W	3.8	1.1	1.3	.9		3.3
NW	4.2	.3	1.7	.5		2.8
VAR	.0	.0	.0	.0		.0
CALM	1.0	.2	.2	.2		2.8
TOT OBS	174	66	108	65	413	3.8
TOT PCT	42.1	16.0	26.2	15.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.2	.0	.7	.2	.0	.0	.2	15.7	
NE	.0	.0	.0	.1	1.0	.5	.0	.0	.0	.0	10.5	
E	.0	.0	.2	1.3	1.3	.2	.0	.0	.0	.0	2.7	
SE	.0	.0	.0	1.9	1.9	.7	.5	.2	.0	.0	3.2	
S	.0	.0	.2	2.1	5.5	.6	.1	.0	.0	.0	13.2	
SW	.2	.0	.1	.9	3.9	1.6	.8	.2	.0	.0	11.6	
W	.2	.0	.0	.8	.4	.2	.0	.0	.0	.0	5.3	
NW	.0	.0	.0	.1	.2	.5	.0	.0	.0	.5	5.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	1.2	
TOT OBS	2	0	2	30	59	22	8	2	0	3	285	413
TOT PCT	.5	.0	.5	7.3	14.3	5.3	1.9	.5	.0	.7	69.0	100.0

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 >50YD	= OR >0
= OR >6500	.7	.7	.7	.7	.7	.7	.7	.7
= OR >5000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
= OR >3500	2.4	2.6	3.1	3.1	3.1	3.1	3.1	3.1
= OR >2000	6.4	7.1	7.6	8.1	8.1	8.1	8.1	8.1
= OR >1000	18.2	21.8	22.3	22.7	22.7	22.7	22.7	22.7
= OR >600	22.5	27.3	28.4	29.6	30.1	30.1	30.1	30.1
= OR >300	22.5	27.7	28.9	30.1	30.6	30.6	30.6	30.6
= OR >150	22.5	27.7	28.9	30.1	30.6	30.6	30.6	30.6
= OR > 0	22.5	27.7	28.9	30.6	31.0	31.0	31.0	31.0
TOTAL	95	117	122	129	131	131	131	131

TOTAL NUMBER OF OBS: 422 PCT FREQ NH <5/8: 69.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
18.7	16.0	16.6	10.1	7.3	5.5	7.7	7.9	9.9	.4	507

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1857-1972

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36.05 150.7E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	*	.1	.1	*	.0	.0	.0	.0	.4	
	NO PCP	.2	.0	.0	.0	.0	.0	.1	.0	.0	.0	.3	
	TOT %	.2	.0	*	.1	.1	*	.1	.0	.0	.0	.7	
1<2	PCP	.0	.0	*	*	.1	.3	.3	.0	.0	.0	.8	
	NO PCP	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.4	
	TOT %	.0	.0	*	*	.4	.4	.3	.0	.0	.0	1.1	
2<5	PCP	.0	.0	.1	.1	.2	*	.1	.0	.0	.1	.6	
	NO PCP	.2	.3	.1	.2	.3	.4	.1	.1	.0	.0	1.7	
	TOT %	.2	.3	.2	.3	.4	.4	.2	.1	.0	.1	2.3	
5<10	PCP	.7	.7	.4	1.6	1.6	2.1	.8	.5	.0	.0	8.5	
	NO PCP	4.8	2.3	2.1	3.9	6.8	4.9	3.7	1.7	.0	.3	30.6	
	TOT %	5.5	3.0	2.6	5.5	8.5	7.0	4.6	2.3	.0	.3	39.1	
10+	PCP	.2	.0	.1	.2	.6	.5	.1	.0	.0	.0	1.7	
	NO PCP	11.4	5.9	3.3	5.0	10.4	8.9	4.3	4.9	.0	.9	55.1	
	TOT %	11.6	5.9	3.4	5.2	11.0	9.4	4.4	4.9	.0	.9	56.8	
	TOT OBS												1059
	TOT PCT	17.4	9.2	6.2	11.2	20.4	17.3	9.5	7.3	.0	1.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.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	
	4-10	.1	.0	.0	.0	.0	.0	.1	.0	.0		.2	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	*	.1	.1	*	.0	.0	.0		.3	
	TOT %	.2	.0	*	.1	.1	*	.1	.0	.0	.0	.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	*	*	.0	.1	.1	.0	.0		.2	
	22+	.0	.0	.0	.2	.5	.4	.2	.0	.0		1.2	
	TOT %	.0	.0	*	.2	.5	.4	.2	.0	.0	.0	1.4	
2<5	0-3	*	*	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	*	.1	.0	.1	.0	.0	.0	.0	.0		.2	
	11-21	.1	.1	.2	.1	.1	.1	.1	.0	.0		.8	
	22+	*	*	.1	.1	.3	.2	.1	.1	.0		.9	
	TOT %	.2	.3	.2	.3	.4	.4	.2	.1	.0	.1	2.2	
5<10	0-3	.3	.2	.1	.3	.4	.1	.5	.4	.0	.2	2.5	
	4-10	1.7	1.6	1.4	2.1	2.6	2.0	1.1	.9	.0		13.5	
	11-21	2.0	.4	.2	1.7	3.2	1.6	1.5	.6	.0		11.2	
	22+	.9	.5	.6	.7	1.5	2.6	1.0	.1	.0		7.8	
	TOT %	4.9	2.7	2.3	4.9	7.7	6.3	4.1	2.0	.0	.2	35.0	
10+	0-3	1.1	.4	.3	.1	.5	.4	.5	.3	.0	1.6	5.2	
	4-10	5.1	4.2	2.8	3.5	4.2	3.2	1.7	2.5	.0		27.3	
	11-21	5.1	1.9	.6	1.5	5.3	4.1	2.0	1.8	.0		22.4	
	22+	.3	.2	.2	.4	1.4	2.5	.5	.4	.0		5.9	
	TOT %	11.7	6.7	4.0	5.5	11.4	10.2	4.7	5.0	.0	1.6	60.8	
	TOT OBS												1202
	TOT PCT	16.9	9.7	6.6	11.0	20.1	17.3	9.3	7.2	.0	1.9	100.0	

APRIL

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1857-1972

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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
00&03	.8	.0	.0	5.8	15.7	5.8	1.7	.0	.0	2.5	32.2	67.8	121
06&09	.7	.0	.0	6.6	13.2	2.2	2.2	1.5	.0	.0	26.5	73.5	136
12&15	.0	.0	1.5	6.1	16.0	6.1	.8	.0	.0	.0	30.5	69.5	131
18&21	.0	.0	.0	7.6	4.3	4.3	2.2	.0	.0	.0	18.5	81.5	92
TOT	2	0	2	31	62	22	8	2	0	3	132	348	480
PCT	.4	.0	.4	6.5	12.9	4.6	1.7	.4	.0	.6	27.5	72.5	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
00&03	.0	.8	1.7	3.7	28.5	65.3	242
06&09	.0	.5	1.1	2.7	38.5	57.2	374
12&15	.0	.0	1.4	1.1	29.7	67.8	276
18&21	.0	1.5	1.8	1.8	39.9	55.1	341
TOT	0	9	18	28	431	747	1233
PCT	.0	.7	1.5	2.3	35.0	60.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.9	.9	8.3	28.4	63.3	109
06&09	.9	1.7	9.5	21.6	69.0	116
12&15	.0	1.6	9.8	22.1	68.0	122
18&21	.0	1.3	10.7	12.0	77.3	75
TOT	2	6	40	92	290	422
PCT	.5	1.4	9.5	21.8	68.7	100.0

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
85/89	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
75/79	.0	.0	.3	.3	.5	.5	.5	.0	13	2.0
70/74	.0	.0	.0	.9	3.9	4.2	4.2	1.7	96	14.8
65/69	.0	.0	.6	2.3	8.2	13.1	9.7	4.2	247	38.1
60/64	.0	.0	.3	3.1	11.1	9.2	5.4	4.8	220	33.9
55/59	.0	.0	.0	.8	2.5	2.3	3.5	.9	65	10.0
50/54	.0	.0	.0	.0	.2	.6	.2	.2	7	1.1
TOTAL	0	0	8	49	170	194	152	76	649	100.0
PCT	.0	.0	1.2	7.6	26.2	29.9	23.4	11.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
1.5	.0	.0	.0	.0	.1	.1	.2	.0	.2
6.0	2.9	.8	.5	.7	.5	1.8	1.4	.0	.2
7.9	6.1	4.4	3.6	6.0	3.2	2.2	3.4	.0	1.2
2.4	1.6	2.1	6.3	10.4	7.8	2.1	1.2	.0	.0
.2	.2	.0	.7	2.9	3.7	2.0	.4	.0	.0
.0	.0	.0	.0	.2	.8	.1	.0	.0	.0
17.9	10.9	7.4	11.1	20.1	16.1	8.3	6.7	.0	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	79	77	74	66	57	54	53	65.9	372
06&09	85	77	73	65	58	54	52	65.6	464
12&15	82	75	71	65	57	53	50	64.9	330
18&21	77	73	70	64	57	54	52	63.9	456
TOT	85	76	72	65	57	54	50	65.1	1622

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	13.5	31.8	26.4	19.6	8.8	72	148
06&09	.0	7.1	31.1	32.1	20.4	9.2	74	196
12&15	.0	8.6	20.4	30.2	25.9	14.8	76	162
18&21	.0	6.3	19.4	30.6	28.1	15.6	77	160
TOT	0	58	172	200	156	80	75	666

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1857-1972

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
7/8	.0	.0	.0	.0	.2	.0	.3	.0	5	.0	.5
6	.0	.0	.0	.1	.1	.3	.1	.0	6	.0	.6
5	.0	.0	.0	.0	.2	.3	.0	.2	7	.0	.7
4	.0	.0	.0	.2	.7	.7	.4	.0	20	.0	2.1
3	.0	.0	.0	.1	.5	1.2	.6	.1	25	.0	2.6
2	.0	.0	.0	.5	1.6	3.5	.3	.0	57	.1	5.8
1	.0	.1	.2	.9	2.7	2.5	.3	.0	65	.0	6.8
0	.0	.1	.3	2.0	4.4	3.0	.4	.0	98	.2	10.0
-1	.0	.0	.3	2.6	4.3	3.3	.4	.0	105	.0	10.9
-2	.0	.0	.8	5.0	4.9	1.9	.2	.1	124	.0	12.9
-3	.0	.1	.2	3.5	4.5	.8	.0	.0	88	.1	9.0
-4	.0	.3	.6	4.7	3.3	.4	.0	.0	90	.1	9.3
-5	.0	.1	1.8	3.6	2.3	.1	.0	.0	76	.0	7.9
-6	.0	.3	1.0	2.7	2.0	.1	.0	.0	59	.1	6.0
-7/-8	.1	.4	2.6	3.0	.5	.0	.0	.0	64	.2	6.4
-9/-10	.1	1.1	1.5	1.5	.2	.0	.0	.0	42	.0	4.4
-11/-13	.1	.7	.9	.4	.0	.0	.0	.0	21	.1	2.1
-14/-16	.1	.5	.0	.2	.0	.0	.0	.0	8	.1	.7
TOTAL	4	37	99	299	311	176	31	5	962	10	952
PCT	.4	3.8	10.3	31.1	32.3	18.3	3.2	.5	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.9	.0	.0	.0	.0	2.5
1-2	.3	3.7	1.9	.0	.0	.0	6.0
3-4	.0	1.6	2.9	.0	.0	.0	4.4
5-6	.0	.3	2.4	.3	.0	.0	3.0
7	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	1.2	.0	.0	.0	1.2
10-11	.0	.0	.6	.2	.0	.0	.9
12	.0	.0	.0	.2	.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
TOT PCT	1.0	7.5	9.6	.8	.0	.0	18.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.6	4.8	.3	.0	.0	.0	5.8
3-4	.0	2.1	.8	.1	.0	.0	3.0
5-6	.0	.0	1.9	.0	.0	.0	1.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.2	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.6	.0	.0	.6
17-19	.0	.0	.0	.3	.0	.0	.3
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
TOT PCT	.6	8.6	3.1	1.1	.2	.0	13.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.2	.0	.0	.0	.0	.6
1-2	.0	1.4	.0	.0	.0	.0	1.4
3-4	.0	.9	.6	.2	.0	.0	1.7
5-6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.2	.0	.8	.0	1.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.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
TOT PCT	.3	2.5	1.7	.6	.8	.0	5.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.0	.0	.0	.0	.8
1-2	.0	1.7	.2	.0	.0	.0	2.0
3-4	.0	.7	.8	.0	.0	.0	1.5
5-6	.0	.3	1.1	.1	.0	.0	1.5
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	3.2	2.6	.1	.0	.0	6.3

APRIL

PERIOD: (OVER-ALL) 1963-1972

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	1.2	.0	.0	.0	.0	2.1
1-2	.0	3.3	2.2	.0	.0	.0	5.5
3-4	.0	1.7	2.2	.0	.0	.0	3.9
5-6	.0	.6	4.9	.2	.0	.0	5.7
7	.0	.2	1.0	.9	.0	.0	2.1
8-9	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.5	.0	.0	.5
13-16	.0	.0	.0	.2	.2	.0	.5
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	.2	.0	.2
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
TOT PCT	.9	6.9	10.3	2.4	.5	.0	21.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.3	4.6	.7	.0	.0	.0	5.6
3-4	.0	.9	2.5	.6	.0	.0	4.0
5-6	.0	.2	.8	1.0	.0	.0	2.0
7	.0	.4	.4	1.0	.1	.3	2.2
8-9	.0	.0	.0	1.7	.0	.0	1.7
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.2	.0	.3	.5
13-16	.0	.0	.0	.1	.7	.6	1.4
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	.4	.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
TOT PCT	.3	7.4	4.4	4.9	1.2	1.3	19.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	1.5	.0	.0	.0	.0	1.5
3-4	.0	.0	1.7	.0	.0	.0	1.7
5-6	.0	.6	.6	.2	.0	.0	1.3
7	.0	.0	.2	.3	.2	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.3	.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
TOT PCT	.0	2.3	2.5	.6	.2	.3	6.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.3	.0	.0	.0	.0	1.3	
1-2	.0	1.4	.6	.0	.0	.0	2.1	
3-4	.0	1.0	1.1	.0	.0	.0	2.1	
5-6	.0	.3	.5	.0	.0	.0	.8	
7	.0	.0	.3	.0	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	.0	4.1	2.5	.1	.0	.0	6.7	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.0	8.2	.0	.0	.0	.0	13.2	
1-2	1.3	22.4	6.0	.0	.0	.0	29.7	
3-4	.0	8.8	12.6	.9	.0	.0	22.4	
5-6	.0	2.2	12.6	1.9	.0	.0	16.7	
7	.0	.6	3.2	2.2	.3	.3	6.6	
8-9	.0	.0	1.6	2.2	.9	.0	4.7	
10-11	.0	.0	.6	.6	.0	.0	1.3	
12	.0	.0	.0	.9	.0	.3	1.3	
13-16	.0	.0	.0	1.3	.9	.9	3.2	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.6	.0	.6	
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	
								317
TOT PCT	6.3	42.3	36.6	10.4	2.8	1.6	100.0	

PERIOD: (OVER-ALL) 1949-1972

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	8.7	6.2	8.2	2.2	1.2	.7	.7	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123	4
6-7	.0	1.2	11.0	10.7	6.7	3.7	1.2	.7	.5	.2	.0	.0	1.0	.0	.0	.0	.0	.0	.0	149	6
8-9	.0	.0	1.7	3.7	4.7	2.2	2.2	.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	7
10-11	.0	.0	.7	1.5	.5	.5	1.7	.2	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	9
12-13	.0	.0	.7	.0	.5	.0	.2	.2	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	9	9
>13	.0	.0	.0	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
INDET	1.7	.2	1.2	1.0	.7	.0	.2	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	23	5
TOTAL	12	41	87	101	63	32	27	10	19	2	1	0	6	0	0	0	0	0	0	401	6
PCT	3.0	10.2	21.7	25.2	15.7	8.0	6.7	2.5	4.7	.5	.2	.0	1.5	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1855-1972

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.0	3.3	1.6	.0	.0	.0	.0	5.9	.8	3.1	1.2	.0	1.6	.0	87.7
NE	4.7	3.7	2.1	.0	.0	.0	.0	10.5	2.1	1.8	1.0	.0	2.1	.0	82.9
E	8.7	16.4	1.9	.0	.0	.0	.0	27.1	.0	3.9	1.9	.0	.0	.0	70.0
SE	6.6	9.9	1.7	.0	.0	.0	.0	18.2	4.4	3.3	2.2	.0	1.1	.0	72.5
S	5.7	12.4	2.1	.0	.0	.0	.0	20.2	2.5	1.6	1.0	.0	.0	.0	75.5
SW	6.5	8.1	1.0	.0	.0	.0	.0	15.6	2.5	3.2	.6	.0	.0	.0	79.4
W	1.1	5.5	.6	.0	.0	.0	.0	7.2	.5	5.7	.3	.0	.6	.0	85.7
NW	2.3	1.5	1.0	.0	.0	.0	.0	4.8	.0	3.0	1.5	.0	1.0	.0	89.6
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	.0	.0	100.0
TOT PCT	4.4	7.3	1.4	.0	.0	.0	.0	13.1	1.7	3.1	1.0	.0	.6	.0	81.2
TOT OBS:	1089														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	5.3	5.8	.4	.0	.0	.0	.0	11.5	1.3	.4	1.8	.0	1.8	.0	83.6
06&09	4.4	10.8	2.0	.0	.0	.0	.0	17.2	1.7	1.4	1.4	.0	.7	.0	79.1
12&15	3.6	6.9	.7	.0	.0	.0	.0	11.3	2.6	5.1	.7	.0	.4	.0	80.7
18&21	4.1	6.8	2.4	.0	.0	.0	.0	13.3	1.2	5.3	1.2	.0	.0	.0	79.9
TOT PCT	4.3	7.7	1.5	.0	.0	.0	.0	13.5	1.7	3.3	1.2	.0	.6	.0	80.6
TOT OBS:	1135														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	6.1	3.8	.8	*	.1		12.0	10.5	15.0	13.5	15.1	11.7	14.9	12.6	8.7	7.0
NE	.8	4.0	3.2	.6	.0	.1		8.7	11.3	9.4	6.0	11.4	13.5	8.3	9.7	7.8	3.8
E	.4	1.9	1.7	.3	.0	.0		4.3	10.6	1.4	5.0	4.6	6.0	4.0	4.8	4.9	2.4
SE	.8	4.0	2.5	.9	.1	.0		8.3	11.4	4.3	5.5	9.9	9.6	12.1	10.1	5.6	11.1
S	.9	5.6	6.1	3.5	.7	.0		16.8	15.2	10.2	19.4	21.3	17.0	14.9	15.7	14.0	19.2
SW	.6	6.9	8.8	5.2	1.3	.3		23.2	17.0	30.5	23.5	21.2	18.3	17.5	19.3	25.9	29.7
W	.5	6.1	5.5	1.7	.6	.1		14.5	14.4	16.2	13.6	8.3	12.4	16.7	12.6	21.3	14.1
NW	.9	4.4	2.7	.6	.3	.0		8.8	11.5	10.0	10.6	4.7	7.0	8.9	11.4	9.1	10.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2							3.3	.1	3.1	2.9	3.6	4.7	2.6	3.9	2.8	2.7
TOT OBS	158	655	573	229	50	10	1675		13.3	128	241	251	193	151	207	319	185
TOT PCT	9.4	39.1	34.2	13.7	3.0	.6		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.0	6.0	1.9	.1	.1		12.0	10.5	14.0	13.6	13.5	8.1
NE	2.3	4.5	1.6	.1	.1		8.7	11.3	7.2	12.3	9.1	6.3
E	1.3	2.4	.5	.1	.0		4.3	10.6	3.7	5.2	4.5	4.0
SE	2.5	4.0	1.5	.3	.1		8.3	11.4	5.1	9.7	11.0	7.6
S	3.2	6.4	5.5	1.7	.1		16.8	15.2	16.2	19.4	15.4	15.9
SW	3.1	9.2	7.1	3.1	.6		23.2	17.0	25.9	19.9	18.6	27.3
W	2.4	6.7	4.4	.7	.4		14.5	14.4	14.5	10.1	14.3	18.7
NW	2.9	3.9	1.4	.5	.1		8.8	11.5	10.4	5.7	10.3	9.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.2						3.3	.1	3.0	4.1	3.4	2.8
TOT OBS	419	724	400	110	22	1675		13.3	369	444	358	504
TOT PCT	25.0	43.2	23.9	6.6	1.3		100.0		100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1855-1972

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.0	7.6	39.6	29.8	16.5	3.0	.5	13.3	100.0	369
06&09	4.1	7.4	37.6	34.5	12.6	3.6	.2	13.0	100.0	444
12&15	3.4	4.7	39.7	38.3	10.3	3.1	.6	13.1	100.0	358
18&21	2.8	5.2	39.5	34.3	14.9	2.4	1.0	13.6	100.0	504
TOT	55	104	654	573	229	50	10	13.3		1675
PCT	3.3	6.2	39.0	34.2	13.7	3.0	.6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.1	2.6	4.0	1.6		3.8
NE	3.2	1.7	3.6	1.7		4.2
E	1.4	.7	.8	.7		3.6
SE	1.5	.7	3.1	2.0		5.4
S	4.0	2.4	5.6	3.1		4.7
SW	7.3	4.2	10.2	2.2		4.2
W	7.2	4.2	3.1	1.6		3.1
NW	4.4	1.4	1.7	.6		2.7
VAR	.0	.0	.0	.0		.0
CALM	2.0	.2	.2	.2		1.9
TOT OBS	165	83	146	63	459	3.9
TOT PCT	35.9	18.1	32.2	13.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.2	.2	.7	1.0	1.5	.0	.0	.0	.0	9.6	
NE	.0	.0	.4	.3	.9	.9	.2	.2	.0	.0	7.2	
E	.0	.0	.2	.0	.0	.8	.0	.0	.0	.0	2.5	
SE	.0	.0	.0	.9	1.3	.9	.4	.0	.0	.0	3.7	
S	.0	.0	.2	1.1	3.3	1.2	.9	.1	.2	.0	8.1	
SW	.0	.0	.3	1.8	3.5	2.1	1.0	.3	.0	.3	14.8	
W	.0	.0	.2	.3	1.3	.5	.2	.0	.2	.4	12.9	
NW	.0	.0	.2	.1	.3	.4	.0	.2	.0	.2	6.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	2.2	
TOT OBS	0	1	8	25	54	38	13	4	2	4	310	459
TOT PCT	.0	.2	1.7	5.4	11.8	8.3	2.8	.9	.4	.9	67.5	100.0

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 >50YD	= OR >0
= OR >6500	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >5000	1.9	2.1	2.1	2.1	2.1	2.1	2.1	2.1
= OR >3500	4.9	5.1	5.1	5.1	5.1	5.1	5.1	5.1
= OR >2000	12.0	12.9	13.1	13.1	13.1	13.1	13.1	13.3
= OR >1000	20.5	24.1	24.5	24.7	24.7	24.7	24.7	24.9
= OR >600	24.1	29.3	29.7	30.2	30.2	30.2	30.2	30.4
= OR >300	24.7	30.6	31.4	31.9	31.9	31.9	31.9	32.1
= OR >150	24.9	30.8	31.6	32.1	32.1	32.1	32.1	32.3
= OR > 0	24.9	30.8	31.6	32.1	32.1	32.1	32.1	32.3
TOTAL	118	146	150	152	152	152	152	153

TOTAL NUMBER OF OBS: 474 PCT FREQ NH <5/8: 67.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.6	19.9	10.8	11.9	7.7	7.7	7.3	7.1	10.1	.0	347

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	*	.0	.1	.2	.2	.1	.0	*	.0	.0	.6	
	TOT %	.1	.0	.1	.2	.2	.1	.0	*	.0	.0	.7	
1<2	PCP	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.3	
	NO PCP	*	.1	.1	*	*	*	.0	.0	.0	.0	.4	
	TOT %	.1	.1	.1	.1	*	.1	.0	.0	.0	.0	.6	
2<5	PCP	.0	.1	.0	.0	.3	.4	.0	.0	.0	.0	.7	
	NO PCP	.1	.1	*	.2	.0	*	.2	*	.0	.0	.7	
	TOT %	.1	.2	*	.2	.3	.4	.2	*	.0	.0	1.5	
5<10	PCP	.2	.5	1.1	1.2	2.7	2.7	1.0	.2	.0	.0	9.7	
	NO PCP	2.3	2.1	1.2	2.8	5.3	6.7	4.9	2.8	.0	.3	28.3	
	TOT %	2.6	2.6	2.3	4.0	8.0	9.3	5.9	3.0	.0	.3	38.0	
10+	PCP	.3	.3	.2	.2	.6	.6	*	.2	.0	.0	2.3	
	NO PCP	8.0	5.5	2.0	3.5	8.5	13.0	8.9	5.8	.0	1.6	56.7	
	TOT %	8.2	5.9	2.2	3.7	9.1	13.5	8.9	6.0	.0	1.6	59.0	
	TOT OBS												1089
	TOT PCT	11.2	8.7	4.8	8.3	17.6	23.5	15.0	9.1	.0	1.8	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.2	
	4-10	.1	.0	.0	.1	.1	.1	.0	.0	.0		.3	
	11-21	*	.0	.0	.0	.0	.0	.0	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.1	.2	.2	.1	.0	*	.0	.0	.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	*	*	*	*	*	.0	.0	.0		.4	
	11-21	.0	*	*	.0	.0	.1	.0	.0	.0		.2	
	22+	.1	.0	.0	.1	.0	.0	.0	.0	.0		.2	
	TOT %	.3	.1	.1	.1	*	.1	.0	.0	.0	.0	.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.0	.2	.0	.0	.0	*	.0		.4	
	11-21	.1	.1	.0	.0	.1	.1	.1	.0	.0		.6	
	22+	.0	.0	*	.1	.3	.2	.0	.0	.0		.6	
	TOT %	.2	.2	*	.3	.4	.3	.1	*	.0	.0	1.6	
5<10	0-3	.2	.1	.0	.3	.2	.4	.1	.1	.0	.4	1.8	
	4-10	1.1	1.2	.9	1.3	2.3	1.9	2.1	1.1	.0		11.8	
	11-21	1.0	1.1	1.2	1.7	2.7	3.0	1.7	1.1	.0		13.4	
	22+	.2	.2	.1	.6	2.4	3.2	1.4	.5	.0		8.6	
	TOT %	2.4	2.6	2.1	3.9	7.6	8.5	5.3	2.8	.0	.4	35.6	
10+	0-3	.6	.6	.4	.5	.7	.4	.3	.6	.0	2.4	6.5	
	4-10	4.7	2.7	1.0	2.9	3.3	4.2	4.1	3.4	.0		26.4	
	11-21	2.6	2.2	.5	.4	3.6	5.9	3.9	1.8	.0		20.8	
	22+	.4	.5	.2	.3	1.5	3.4	1.0	.3	.0		7.7	
	TOT %	8.2	6.1	2.0	4.1	9.1	13.9	9.3	6.1	.0	2.4	61.3	
	TOT OBS												1233
	TOT PCT	11.2	9.0	4.4	8.6	17.3	22.9	14.8	9.0	.0	2.8	100.0	

MAY

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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
00&03	.0	.8	.8	7.8	10.9	7.8	3.9	1.6	.8	.8	35.2	64.8	128
06&09	.0	.0	1.7	5.0	14.2	8.3	5.0	1.7	.0	.8	36.7	63.3	120
12&15	.0	.0	2.7	4.1	8.2	7.5	1.4	.0	.7	.7	25.2	74.8	147
18&21	.0	.0	.8	3.1	9.3	6.2	.8	.0	.0	.8	20.9	79.1	129
TOT	0	1	8	26	55	39	14	4	2	4	153	371	524
PCT	.0	.2	1.5	5.0	10.5	7.4	2.7	.8	.4	.8	29.2	70.8	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
00&03	.0	.4	.8	1.3	30.7	66.8	238
06&09	.3	.9	.9	1.8	41.2	55.0	342
12&15	.0	1.0	.6	1.6	29.1	67.6	309
18&21	.0	.8	.5	1.5	39.2	57.9	390
TOT	1	10	9	20	457	782	1279
PCT	.1	.8	.7	1.6	35.7	61.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.7	11.0	28.0	61.0	118
06&09	.9	2.7	10.8	29.7	59.5	111
12&15	.0	3.0	9.8	19.7	70.5	132
18&21	.0	.9	4.4	19.5	76.1	113
TOT	1	10	43	114	317	474
PCT	.2	2.1	9.1	24.1	66.9	100.0

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
80/84	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
70/74	.0	.0	.0	.5	.8	.9	.3	.0	16	2.5
65/69	.0	.0	.2	1.4	4.2	5.6	6.2	3.4	135	20.9
60/64	.0	.0	.6	4.5	10.2	13.2	10.2	4.5	279	43.3
55/59	.0	.0	.9	4.0	5.1	10.5	6.2	2.6	190	29.5
50/54	.0	.0	.0	.2	.9	1.4	.9	.3	24	3.7
TOTAL	0	0	11	69	137	204	154	70	645	100.0
PCT	.0	.0	1.7	10.7	21.2	31.6	23.9	10.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	.6	.0	.2	.0	.0	.5	.2	.0	.0
5.9	5.0	1.3	1.3	1.4	1.5	1.7	1.8	.0	1.1
5.0	3.3	1.8	4.2	6.5	10.5	7.1	3.8	.0	1.1
1.8	1.2	1.0	1.7	6.2	10.0	5.2	2.1	.0	.2
.0	.0	.0	.2	.5	1.6	1.4	.0	.0	.0
13.9	10.0	4.1	7.6	14.7	23.5	15.9	7.9	.0	2.3

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	78	72	69	62	55	53	52	62.2	360
06&09	81	71	68	62	56	54	52	61.8	443
12&15	73	70	67	61	55	53	48	61.3	370
18&21	73	69	66	60	55	52	49	60.2	507
TOT	81	70	68	61	55	53	48	61.3	1680

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	14.3	25.7	30.0	17.9	12.1	73	140
06&09	.0	16.2	22.8	29.3	22.8	9.0	73	167
12&15	.0	10.7	20.3	34.5	23.7	10.7	75	177
18&21	.0	7.5	16.0	33.7	31.0	11.8	77	187
TOT	0	80	140	215	163	73	75	671

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1855-1972

AREA 0008 CAPE HOWE NE
36.1S 150.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	WO FOG
11/13	.0	.0	.0	.0	.1	.0	.0	.0	.1	2	.0	.2
9/10	.0	.0	.1	.0	.1	.0	.0	.0	.0	2	.0	.2
7/8	.0	.0	.0	.2	.2	.4	.0	.0	.0	8	.0	.8
6	.0	.0	.0	.2	.0	.0	.0	.0	.0	2	.0	.2
5	.0	.0	.1	.2	.3	.0	.0	.0	.0	6	.0	.6
4	.0	.0	.0	.6	.6	.1	.0	.0	.0	13	.0	1.3
3	.0	.1	.1	.1	.3	.1	.1	.0	.0	8	.0	.8
2	.0	.0	.5	1.2	1.0	.4	.0	.0	.0	31	.0	3.1
1	.0	.1	.7	1.6	1.4	.6	.0	.0	.0	44	.0	4.4
0	.0	.2	2.2	3.8	2.6	.4	.0	.0	.0	92	.1	9.1
-1	.0	.4	1.7	4.2	2.5	.8	.0	.0	.0	96	.1	9.5
-2	.1	.5	4.4	5.5	2.3	.0	.0	.0	.0	128	.1	12.7
-3	.1	.5	3.9	2.7	1.4	.2	.0	.0	.0	88	.1	8.7
-4	.1	.4	3.8	6.5	1.8	.0	.0	.0	.0	126	.4	12.2
-5	.0	1.1	5.1	3.4	1.3	.0	.0	.0	.0	109	.4	10.5
-6	.1	.5	3.3	1.7	.5	.0	.0	.0	.0	61	.0	6.1
-7/-8	.0	1.8	4.0	3.1	.6	.0	.0	.0	.0	95	.1	9.4
-9/-10	.1	1.8	2.1	.7	.2	.0	.0	.0	.0	49	.0	4.9
-11/-13	.0	1.9	1.3	.3	.0	.0	.0	.0	.0	35	.0	3.5
-14/-16	.1	.3	.1	.2	.0	.0	.0	.0	.0	7	.0	.7
TOTAL	6	96	334	362	172	30	1	0	1	1002	13	989
PCT	.6	9.6	33.3	36.1	17.2	3.0	.1	.0	.1	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	.2	.0	.0	.0	1.6
1-2	.7	6.1	1.1	.0	.0	.0	8.0
3-4	.0	1.8	2.8	.0	.0	.0	4.6
5-6	.0	.0	1.0	.5	.0	.0	1.5
7	.0	.0	.3	.3	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.0	8.9	5.4	.8	.0	.0	16.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.1	.0	.0	.0	1.3
1-2	.1	2.0	.7	.0	.0	.0	2.7
3-4	.0	1.8	.7	.0	.0	.0	2.5
5-6	.0	.3	1.6	.1	.0	.0	1.9
7	.0	.0	.6	.9	.0	.3	1.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.1	5.3	3.6	1.0	.0	.3	10.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.3	.8	.0	.0	.0	1.1
3-4	.6	.3	.3	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.3	.0	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.3	.0	.0	.0	.0	.3
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
TOT PCT	.6	1.5	1.1	.0	.0	.0	3.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.6	.0	.0	.0	.0	1.0
1-2	.3	.9	.0	.0	.0	.0	1.2
3-4	.0	.6	.3	.0	.0	.0	.9
5-6	.0	.0	.7	.3	.0	.0	1.0
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.7	2.1	1.3	.3	.0	.0	4.3

PERIOD: (OVER-ALL) 1963-1972

MAY

TABLE 18 (CONT)

AREA 0008 CAPE HOWE NE
36.1S 150.8E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2
1-2	.3	1.8	1.1	.0	.0	.0	3.3
3-4	.0	1.6	2.1	.2	.0	.0	3.9
5-6	.0	.8	1.5	.8	.0	.0	3.1
7	.0	.0	.3	1.0	.3	.0	1.6
8-9	.0	.0	.6	.0	.3	.0	.9
10-11	.0	.0	.0	.2	.3	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.3	.3	.0	.0	.6
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
TOT PCT	.5	4.3	5.8	2.6	.9	.0	14.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.3	.0	.0	.0	.9
1-2	.0	2.7	.4	.0	.0	.0	3.2
3-4	.0	2.1	2.6	.7	.0	.0	5.4
5-6	.0	.7	3.1	1.3	.0	.0	5.1
7	.0	.3	3.3	1.9	.0	.0	5.5
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	1.6	.0	.0	1.6
12	.0	.0	.0	.9	.0	.0	.9
13-16	.0	.0	.0	.0	.7	.0	.7
17-19	.0	.0	.0	.0	.3	.0	.3
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
TOT PCT	.3	6.1	10.0	6.4	1.0	.0	23.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.3	.3	.0	.0	.0	2.9
1-2	.0	2.7	1.0	.0	.0	.0	3.8
3-4	.0	1.8	2.5	.3	.0	.0	4.7
5-6	.0	.0	3.2	.2	.0	.0	3.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.2	.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
TOT PCT	.3	6.9	7.6	1.0	.2	.0	16.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.2	.0	.0	.0	.0	.5	
1-2	.1	3.2	.1	.0	.0	.0	3.4	
3-4	.0	2.1	1.7	.0	.0	.0	3.8	
5-6	.0	.0	1.2	.0	.0	.0	1.2	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.3	.0	.0	.0	.3	
10-11	.0	.0	.0	.3	.0	.0	.3	
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	
TOT PCT	.4	5.5	3.3	.4	.0	.0	9.5	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.8	6.1	.9	.0	.0	.0	12.8	
1-2	1.4	19.7	5.2	.0	.0	.0	26.4	
3-4	.6	11.9	12.8	1.2	.0	.0	26.4	
5-6	.0	1.7	11.9	3.2	.0	.0	16.8	
7	.0	.6	4.6	4.1	.3	.3	9.9	
8-9	.0	.0	1.7	.0	.3	.0	2.0	
10-11	.0	.3	.0	2.3	.3	.0	2.9	
12	.0	.0	.0	1.2	.0	.0	1.2	
13-16	.0	.0	.3	.3	.9	.0	1.4	
17-19	.0	.0	.0	.0	.3	.0	.3	
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	
TOT PCT	7.8	40.3	37.4	12.2	2.0	.3	100.0	345

PERIOD: (OVER-ALL) 1949-1972

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	10.5	10.0	6.2	3.1	.9	.9	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	151	4
6-7	.0	1.8	5.6	11.4	7.6	1.8	1.3	.9	1.8	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	147	6
8-9	.0	.9	.7	3.3	3.1	2.0	1.1	.7	1.3	.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	64	8
10-11	.0	.0	.9	.2	.9	.7	.4	.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	8
12-13	.0	.0	.2	.0	.2	.0	.0	.4	.7	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	9	13
>13	.0	.0	.0	.2	.4	.0	.0	.0	.9	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	11	13
INDET	2.4	1.6	2.7	2.9	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	3
TOTAL	19	66	90	109	71	26	18	12	22	9	5	2	0	0	0	0	0	0	0	449	6
PCT	4.2	14.7	20.0	24.3	15.8	5.8	4.0	2.7	4.9	2.0	1.1	.4	.0	.0	.0	.0	.0	.0	.0	100.3	

JUNE

PERIOD: (PRIMARY) 1903-1971
(OVER-ALL) 1855-1971

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36.0S 150.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.8	1.6	.0	.0	.0	.0	.0	5.4	.8	1.1	2.1	.0	.8	.0		89.8
NE	6.6	.9	3.5	.0	.0	.0	.0	11.0	5.7	3.5	.9	.0	.4	.0		80.3
E	14.6	4.2	3.1	.0	.0	.0	.0	21.9	1.6	.0	3.1	.0	.0	.0		73.4
SE	10.2	19.8	1.7	.0	.0	.0	.0	31.7	5.9	1.1	.0	.0	.0	.0		62.3
S	10.1	14.7	1.0	.0	.0	.0	.0	25.4	4.5	5.6	1.2	.0	1.0	.0		66.0
SW	4.4	13.2	.6	.0	.0	.0	.0	18.1	4.4	2.8	1.4	.0	.0	.0		74.5
W	3.9	5.3	1.4	.0	.0	.0	.0	10.6	1.4	6.9	1.1	.0	1.1	.0		80.8
NW	2.2	.0	.0	.0	.0	.0	.0	2.2	.9	2.8	.0	.0	1.5	.0		93.6
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	.0	.0		100.0
TOT PCT	6.0	8.8	1.0	.0	.0	.0	.0	15.7	3.2	3.6	1.1	.0	.7	.0		77.4
TOT OBS:	1069															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.5	10.0	.5	.0	.0	.0	.0	14.0	2.0	.5	.0	.0	2.0	.0		81.5
06&09	6.9	9.2	.3	.0	.0	.0	.0	16.4	3.9	2.6	1.0	.0	.3	.0		77.4
12&15	6.0	6.7	1.8	.0	.0	.0	.0	14.2	3.2	6.0	1.8	.0	.4	.0		76.2
18&21	6.5	9.3	1.2	.0	.0	.0	.0	17.0	2.8	4.3	1.5	.0	.3	.0		76.2
TOT PCT	5.9	8.7	1.0	.0	.0	.0	.0	15.6	3.1	3.6	1.2	.0	.6	.0		77.5
TOT OBS:	1110															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	4.3	3.0	.9	.1	.1		8.9	11.7	6.2	10.3	9.9	9.7	10.2	9.2	7.6	7.1
NE	.6	3.5	1.9	.3	.1	.1		6.4	10.7	4.0	7.2	8.4	9.0	5.8	6.0	4.4	5.0
E	.2	1.8	2.3	.5	.2	.0		4.9	13.4	6.9	3.1	5.1	5.9	7.9	4.4	5.8	2.1
SE	.4	3.0	3.2	.8	.6	.1		8.1	15.0	6.7	6.4	9.1	9.2	9.0	7.5	8.3	8.2
S	1.0	4.8	7.0	3.3	1.2	.4		17.8	17.2	17.1	12.6	21.6	19.7	20.1	16.7	16.7	18.9
SW	.6	7.2	7.4	6.5	2.2	.3		24.2	18.3	29.0	27.1	25.5	18.8	21.0	25.3	23.4	24.5
W	1.1	5.5	5.2	2.5	1.4	.1		15.7	15.7	19.6	18.4	7.4	16.0	16.4	15.4	19.3	15.3
NW	1.2	4.7	3.7	1.2	.6	.0		11.4	12.7	10.6	12.8	10.2	6.4	7.6	12.7	11.7	17.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0	.0	2.1	2.8	5.1	2.1	2.8	2.7	1.1
TOT OBS	135	565	549	261	102	16	1628		15.0	101	242	250	195	142	217	291	190
TOT PCT	8.3	34.7	33.7	16.0	6.3	1.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.3	4.8	1.4	.3	.1		8.9	11.7	9.1	9.8	9.6	7.4
NE	2.0	3.5	.5	.2	.1		6.4	10.7	6.3	8.7	5.9	4.6
E	1.2	2.1	1.3	.2	.1		4.9	13.4	4.2	5.4	5.8	4.4
SE	1.9	3.2	2.0	.6	.4		8.1	15.0	6.5	9.2	8.1	8.3
S	2.8	7.3	4.3	2.1	1.2		17.8	17.2	13.9	20.8	18.0	17.6
SW	2.9	9.5	6.3	4.7	.9		24.2	18.3	27.6	22.6	23.6	23.8
W	3.2	6.4	3.7	1.9	.6		15.7	15.7	18.7	11.2	15.8	17.7
NW	3.4	5.1	1.8	.8	.2		11.4	12.7	12.2	8.5	10.7	14.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	1.5	3.8	2.5	2.1
TOT OBS	362	685	346	177	58	1628		15.0	343	445	359	481
TOT PCT	22.2	42.1	21.3	10.9	3.6		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.5	6.4	33.2	31.2	16.6	9.3	1.7	16.3	100.0	343
06&09	3.8	5.6	36.4	31.2	15.5	6.5	.9	14.6	100.0	445
12&15	2.5	5.3	34.3	37.0	15.9	4.7	.3	14.5	100.0	359
18&21	2.1	5.8	34.5	35.3	16.2	5.0	1.0	14.8	100.0	481
TOT	41	94	565	549	261	102	16	15.0		1628
PCT	2.5	5.8	34.7	33.7	16.0	6.3	1.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.8	1.8	1.4	1.6		3.5
NE	1.8	1.8	1.1	1.1		3.9
E	.8	1.6	1.6	3.0		5.6
SE	.8	1.1	4.3	3.4		6.1
S	5.1	3.8	7.4	5.3		4.9
SW	6.2	5.8	9.4	1.6		4.1
W	5.8	3.0	3.9	2.0		3.8
NW	5.1	1.0	1.9	.6		2.9
VAR	.0	.0	.0	.0		.0
CALM	.5	.3	.5	.3		4.0
TOT OBS	119	80	126	75	400	4.4
TOT PCT	29.8	20.0	31.5	18.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6498	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.3	1.0	.4	.3	.3	.2	.3	5.9	
NE	.1	.0	.0	.3	.8	.4	.0	.0	.1	.0	4.1	
E	.2	.0	.0	.8	1.9	.5	.5	.0	.0	.0	3.1	
SE	.0	.0	.6	1.8	2.9	.4	.8	.0	.0	.0	3.0	
S	.0	.0	.6	2.9	4.1	2.3	.4	.0	.0	.0	11.5	
SW	.0	.0	.2	1.0	3.1	2.7	1.6	.1	.0	.0	14.3	
W	.0	.0	.2	.7	2.1	.9	.0	.1	.0	.3	10.4	
NW	.0	.0	.0	.0	.7	.6	.0	.3	.0	.3	6.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	1.3	
TOT OBS	1	0	6	31	67	32	14	3	1	3	242	400
TOT PCT	.3	.0	1.5	7.8	16.8	8.0	3.5	.8	.3	.8	60.5	100.0

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 >500YD	* OR >0
* OR >6500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >5000	1.5	1.5	1.7	1.7	1.7	1.7	1.7	1.7
* OR >3500	4.6	4.9	5.1	5.4	5.4	5.4	5.4	5.4
* OR >2000	11.2	12.7	13.2	13.4	13.4	13.4	13.4	13.4
* OR >1000	23.0	28.9	29.6	29.8	29.8	29.8	29.8	29.8
* OR >600	25.9	35.2	36.7	37.4	37.4	37.4	37.4	37.4
* OR >300	26.2	36.4	38.1	38.9	38.9	38.9	38.9	38.9
* OR >150	26.2	36.4	38.1	38.9	38.9	38.9	38.9	38.9
* OR > 0	26.2	36.7	38.4	39.1	39.1	39.1	39.1	39.1
TOTAL	107	150	157	160	160	160	160	160

TOTAL NUMBER OF OBS: 409 PCT FREQ NH <5/8: 60.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.8	16.8	11.0	11.0	6.9	8.8	8.4	8.0	15.3	.2	465

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	*	.1	.1	.0	.0	.0	.0	.3	
	NO PCP	.1	.0	.0	.0	.0	.1	.1	.0	.0	.0	.3	
	TOT %	.1	.0	.0	*	.1	.2	.1	.0	.0	.0	.6	
1<2	PCP	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.1	.1	.0	.1	.0	.1	.0	.0	.4	
	TOT %	.0	.1	.2	.2	.0	.1	.0	.1	.0	.0	.7	
2<5	PCP	.0	*	.2	.1	.3	.1	.0	.0	.0	.0	.7	
	NO PCP	.0	.1	.1	.1	.4	.4	.1	.0	.0	.0	1.2	
	TOT %	.0	.1	.3	.2	.7	.4	.1	.0	.0	.0	1.9	
5<10	PCP	.3	.4	.4	1.7	3.7	4.0	1.6	.2	.0	.0	12.3	
	NO PCP	4.1	1.6	.7	2.0	4.2	6.7	6.9	6.2	.0	.7	33.1	
	TOT %	4.4	2.0	1.1	3.6	8.0	10.7	8.5	6.5	.0	.7	45.3	
10+	PCP	.2	.1	.3	.7	.4	.3	.1	*	.0	.0	2.2	
	NO PCP	4.1	3.0	2.6	3.4	8.9	13.1	7.5	5.9	.0	.9	49.4	
	TOT %	4.3	3.1	2.9	4.2	9.3	13.3	7.6	5.9	.0	.9	51.6	
	TOT OBS												1068
	TOT PCT	8.7	5.3	4.5	8.3	18.0	24.7	16.3	12.5	.0	1.6	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.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	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.1	.0	.0	*	*	.1	.1	.0	.0		.3	
	22+	.0	.0	.0	.0	.1	.1	.0	.0	.0		.2	
	TOT %	.1	.0	.0	*	.1	.2	.1	.0	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	.1	.1	.0	.0	.1	.0	.0		.3	
	11-21	.0	.1	.1	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	*	.1	.1	.0	.1	.0	.1	.0		.4	
	TOT %	.0	.1	.4	.2	.0	.1	.1	.1	.0	.0	.9	
2<5	0-3	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
	4-10	.0	.1	.1	.1	.1	.4	.1	.0	.0		.9	
	11-21	.0	.0	.1	.1	.2	*	.0	.0	.0		.5	
	22+	.0	*	.1	.1	.4	.3	*	.0	.0		.9	
	TOT %	.0	.1	.3	.3	.8	.8	.1	.0	.0	.0	2.4	
5<10	0-3	.2	.2	.0	.1	.6	.4	.5	.3	.0	.6	2.9	
	4-10	1.3	1.0	.5	.8	.9	2.5	2.5	1.8	.0		11.4	
	11-21	1.3	.6	.6	1.5	2.3	2.2	2.0	2.1	.0		12.7	
	22+	1.0	.0	.1	.8	3.3	4.5	2.7	1.6	.0		14.0	
	TOT %	3.8	1.8	1.2	3.3	7.2	9.5	7.8	5.8	.0	.6	41.0	
10+	0-3	.2	.3	.2	.3	.3	.2	.7	.8	.0	1.2	4.3	
	4-10	2.8	2.4	1.3	1.9	3.5	4.8	3.1	2.7	.0		22.6	
	11-21	1.4	.8	1.2	2.0	4.5	5.2	3.1	2.1	.0		20.2	
	22+	.2	.0	.2	.7	1.4	4.1	1.0	.4	.0		8.1	
	TOT %	4.7	3.5	2.8	4.9	9.8	14.3	7.9	6.0	.0	1.2	55.2	
	TOT OBS												1212
	TOT PCT	8.6	5.5	4.7	8.7	18.0	24.9	16.0	11.8	.0	1.8	100.0	

JUNE

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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
00&03	.0	.0	2.0	7.1	16.2	9.1	3.0	.0	.0	.0	37.4	62.6	99
06&09	.0	.0	1.0	6.8	16.5	8.7	3.9	1.0	1.0	.0	38.8	61.2	103
12&15	.0	.0	1.6	7.0	17.2	7.8	2.3	.8	.0	.8	37.5	62.5	128
18&21	.9	.0	.9	7.5	11.3	4.7	4.7	.9	.0	1.9	33.0	67.0	106
TOT	1	0	6	31	67	33	15	3	1	3	160	276	436
PCT	.2	.0	1.4	7.1	15.4	7.6	3.4	.7	.2	.7	36.7	63.3	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
00&03	.0	.0	1.9	2.3	38.6	57.2	215
06&09	.0	.9	.6	2.3	44.0	52.3	350
12&15	.0	.3	.6	2.6	37.4	59.0	310
18&21	.0	.8	.8	2.1	43.7	52.6	378
TOT	0	7	11	29	518	688	1253
PCT	.0	.6	.9	2.3	41.3	54.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	2.2	11.0	30.8	58.2	91
06&09	.0	1.0	9.3	32.0	58.8	97
12&15	.0	1.6	12.1	27.4	60.5	124
18&21	1.0	2.1	10.3	25.8	63.9	97
TOT	1	7	44	118	247	409
PCT	.2	1.7	10.8	28.9	60.4	100.0

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	.0	.0	.0	.3	.0	2	.3
70/74	.0	.0	.0	.2	.0	.2	.2	.0	3	.5
65/69	.0	.0	.3	.2	1.2	.7	.8	.8	24	4.0
60/64	.0	.0	1.2	2.0	8.2	10.4	7.2	4.4	199	33.5
55/59	.0	.0	1.0	6.4	9.9	15.0	9.9	3.5	272	45.8
50/54	.0	.0	.3	1.2	3.4	3.7	3.7	2.9	90	15.2
45/49	.0	.0	.0	.0	.2	.2	.3	.0	4	.7
TOTAL	0	0	17	59	136	179	134	69	594	100.0
PCT	.0	.0	2.9	9.9	22.9	30.1	22.6	11.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0
	.0	.2	.0	.0	.2	.2	.0	.0	.0	.0
	.4	.7	.3	.2	.2	.7	.3	1.1	.0	.2
	4.5	2.9	2.8	3.6	5.6	4.4	4.0	4.9	.0	.8
	3.2	2.1	2.6	5.0	10.4	10.4	6.9	4.4	.0	.8
	.1	.0	.2	.9	4.0	5.5	3.6	.5	.0	.5
	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0
	8.2	5.9	5.9	9.6	20.3	21.8	14.9	10.9	.0	2.4

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	78	70	65	59	52	49	48	58.9	346
06&09	75	68	65	59	53	51	48	58.8	448
12&15	69	65	64	58	52	51	48	58.0	365
18&21	79	66	64	57	51	49	48	57.5	488
TOT	79	67	64	58	52	50	48	58.3	1647

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	10.3	22.2	37.6	19.7	10.3	74	117
06&09	.0	11.3	26.0	28.0	22.0	12.7	74	150
12&15	.0	12.6	23.0	31.0	22.4	10.9	75	174
18&21	.0	14.9	21.3	27.0	25.3	11.5	74	174
TOT	0	77	142	187	139	70	74	615

PERIOD: (PRIMARY) 1903-1971
(OVER-ALL) 1855-1971

AREA 0008 CAPE HOWE NE
36.0S 150.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.2
9/10	.0	.0	.0	.0	.1	.0	.0	.1	.1	3	.0	.3
7/8	.0	.0	.0	.3	.0	.2	.0	.0	.0	5	.1	.4
6	.0	.0	.0	.6	.0	.1	.0	.0	.0	7	.0	.7
5	.0	.0	.0	.1	.3	.1	.1	.0	.0	6	.0	.6
4	.0	.0	.0	.1	.6	.3	.1	.0	.0	11	.0	1.1
3	.0	.0	.2	.8	.7	.3	.1	.0	.0	21	.0	2.2
2	.0	.1	.1	.9	1.7	.4	.1	.0	.0	32	.0	3.3
1	.0	.1	.1	1.8	1.6	.8	.0	.0	.0	42	.0	4.4
0	.0	.2	.8	3.3	2.9	.4	.1	.0	.0	75	.4	7.4
-1	.0	.0	.5	2.7	2.3	.6	.1	.0	.0	60	.0	6.2
-2	.0	.9	1.2	5.6	4.7	.5	.1	.0	.0	126	.4	12.7
-3	.0	.3	1.6	5.4	2.1	.2	.0	.0	.0	92	.1	9.4
-4	.0	.5	3.3	5.5	2.4	.1	.0	.0	.0	114	.2	11.6
-5	.0	.7	3.9	4.9	1.2	.0	.0	.0	.0	104	.0	10.8
-6	.0	.5	2.2	3.9	1.6	.0	.0	.0	.0	79	.0	8.2
-7/-8	.1	1.7	3.4	4.7	.7	.0	.0	.0	.0	102	.0	10.6
-9/-10	.2	.7	2.5	1.9	.1	.0	.0	.0	.0	52	.0	5.4
-11/-13	.1	.6	1.7	.4	.0	.0	.0	.0	.0	27	.0	2.8
-14/-16	.0	.3	.0	.0	.0	.0	.0	.0	.0	3	.0	.3
TOTAL	4		208		221		7		2		12	951
		65		414		40		2		963		
PCT	.4	6.7	21.6	43.0	22.9	4.2	.7	.2	.2	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

	N							NE						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2	.0	.3	.0	.0	.0	.0	.3
1-2	.0	2.4	.2	.0	.0	.0	2.6	.3	1.8	.0	.0	.0	.0	2.1
3-4	.0	1.2	1.6	.3	.0	.0	3.1	.0	1.1	.8	.0	.0	.0	1.9
5-6	.0	.3	.8	.0	.0	.0	1.2	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
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	.3	.0	.0	.0	.3	.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
TOT PCT	.0	5.5	3.0	.3	.0	.0	8.8	.3	3.2	2.5	.0	.0	.0	6.0

	E							SE						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5	.0	.2	.0	.0	.0	.0	.2
1-2	.0	1.2	.0	.0	.0	.0	1.2	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	1.0	.9	.0	.0	.0	1.9	.0	.3	2.3	.0	.0	.0	2.6
5-6	.0	.3	1.6	.3	.0	.0	2.3	.0	.0	.9	.2	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.7	.0	.0	1.1
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.1	.3	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.5	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7
13-16	.0	.2	.0	.0	.0	.0	.2	.0	.1	.3	.0	.0	.0	.4
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	.3	.0	.0	.3
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.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	.8	.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
TOT PCT	.0	3.3	2.9	.3	.0	.0	6.5	.0	1.8	3.9	2.3	.9	.0	9.0

PERIOD: (OVER-ALL) 1963-1971

JUNE

AREA 0008 CAPE HOWE NE
36.0S 150.8E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.2	.0	.0	.0	.0	1.5	.6	.1	.0	.0	.0	.0	.7
1-2	.6	2.6	.9	.0	.0	.0	4.1	.1	5.4	.5	.0	.0	.0	6.0
3-4	.0	1.2	4.4	.3	.0	.0	5.8	.0	.6	3.6	.0	.0	.0	4.2
5-6	.0	.6	2.8	1.3	.0	.0	4.7	.0	.2	2.6	1.3	.0	.0	4.1
7	.0	.0	.9	1.2	.0	.0	2.1	.0	.0	1.3	.7	.1	.0	2.1
8-9	.0	.0	.0	1.4	1.3	.0	2.7	.0	.0	.1	.6	.0	.0	.7
10-11	.0	.0	.0	.0	1.4	.0	1.4	.0	.0	.3	.7	.4	.0	1.4
12	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.2	.0	.2	.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	.2	.0	.2	.0	.0	.0	.0	.1	.0	.1
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
TOT PCT	.8	5.6	9.0	5.0	3.2	.3	23.9	.7	6.3	8.5	4.8	.6	.0	20.7

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.5	.2	.3	.0	.0	.0	1.1	.7	.5	.0	.0	.0	.0	1.2	
1-2	.0	3.8	1.2	.0	.0	.0	4.9	.0	1.9	.5	.0	.0	.0	2.4	
3-4	.0	.9	1.6	.3	.0	.0	2.8	.0	.7	1.3	.0	.0	.0	2.0	
5-6	.0	.2	2.4	1.2	.0	.0	3.8	.0	.3	2.0	.0	.0	.0	2.3	
7	.0	.0	.3	.6	.2	.0	1.2	.0	.0	.3	.1	.0	.0	.4	
8-9	.0	.0	.2	.2	.0	.0	.5	.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	.3	.0	.0	.0	.3	
13-16	.0	.0	.0	.3	.0	.0	.3	.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	
TOT PCT	.5	5.2	6.0	2.6	.2	.0	14.6	.7	3.4	4.4	.1	.0	.0	8.6	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.9	4.2	.3	.0	.0	.0	8.5	
1-2	1.0	20.2	3.3	.0	.0	.0	24.4	
3-4	.3	6.8	16.3	1.0	.0	.0	24.4	
5-6	.3	2.0	14.0	4.2	.0	.0	20.5	
7	.0	.3	3.3	3.3	.3	.0	7.2	
8-9	.3	.0	1.3	2.3	1.6	.0	5.5	
10-11	.0	.0	.3	1.0	2.3	.0	3.6	
12	.0	.0	.3	1.6	.0	.0	2.0	
13-16	.0	.3	.7	1.3	.0	.0	2.3	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.3	.0	.3	.7	
23-25	.0	.0	.0	.0	.3	.0	.3	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.3	.0	.3	
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	
								307
TOT PCT	5.9	33.9	39.7	15.3	4.9	.3	100.0	

PERIOD: (OVER-ALL) 1949-1971

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	2.5	6.2	9.0	6.5	3.0	1.2	.5	1.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	122	4
6-7	.0	.7	4.0	8.7	5.0	4.0	1.[illegible]	1.5	2.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	113	7
8-9	.0	.2	3.2	5.5	4.0	2.7	2.5	.7	1.5	1.5	.5	.0	.2	.0	.2	.0	.0	.0	.0	92	8
10-11	.0	.0	.7	2.0	.5	.2	1.5	2.0	.7	.7	1.0	.0	.0	.0	.0	.0	.0	.0	.0	38	10
12-13	.0	.0	.0	.0	.2	.7	.2	.5	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	10	11
>13	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	3	11
INDET	1.5	.7	.7	.7	1.2	.2	.0	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	24	5
TOTAL	16	32	71	95	57	37	25	23	20	13	10	1	1	0	1	0	0	0	0	402	7
PCT	4.0	8.0	17.7	23.6	14.2	9.2	6.2	5.7	5.0	3.2	2.5	.2	.2	.0	.2	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1855-1972

AREA 0008 CAPE HOWE NE
36.0S 150.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.5	.7	.7	.0	.0	.0	.0	3.9	1.2	2.1	6.3	.0	.7	.0	85.8
NE	3.1	10.0	1.5	.0	.0	.0	.0	14.6	1.9	.8	.0	.0	.0	.0	82.8
E	3.1	5.2	3.1	.0	.0	.0	.0	11.5	5.8	.0	2.1	.0	.0	.0	80.6
SE	6.3	8.4	2.9	.0	.0	.0	.0	17.2	6.3	3.4	.0	.0	.0	.0	73.1
S	5.6	7.0	1.5	.0	.0	.0	.6	13.6	4.7	1.4	.3	.0	.3	.0	80.0
SW	4.3	8.3	1.5	.0	.0	.0	1.0	15.1	2.6	1.8	1.1	.0	.8	.0	79.4
W	1.4	2.6	.6	.0	.0	.0	.0	4.6	.6	1.7	2.0	.0	.0	.0	91.0
NW	4.9	1.1	.4	.0	.0	.0	.0	6.4	.0	1.1	.4	.0	.0	.0	92.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	8.3	.0	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0	.0	91.7
TOT PCT	3.8	5.4	1.3	.0	.0	.0	.4	10.6	2.4	1.6	1.6	.0	.4	.0	83.6
TOT OBS:	1118														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.4	6.0	2.2	.0	.0	.0	.4	12.1	3.0	.0	.9	.0	.0	.0	84.1
06&09	3.6	6.0	.6	.0	.0	.0	.3	10.5	1.2	.9	1.8	.0	.0	.0	85.6
12&15	3.5	1.6	1.2	.0	.0	.0	.4	5.8	4.3	3.5	1.6	.0	.8	.0	84.5
18&21	4.8	7.5	1.2	.0	.0	.0	.3	13.7	1.5	1.8	2.1	.0	.6	.0	80.9
TOT PCT	3.9	5.4	1.2	.0	.0	.0	.3	10.7	2.3	1.6	1.6	.0	.3	.0	83.7
TOT OBS:	1158														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	5.3	5.4	.8	.2	.0		12.4	12.1	10.6	10.9	13.6	15.3	11.3	12.4	12.7	11.3
NE	.4	3.1	1.9	.2	.1	.0		5.7	10.6	2.1	5.4	8.1	13.0	3.6	6.1	2.1	4.1
E	.3	2.9	.7	.4	.2	.0		4.6	11.5	3.5	3.4	4.6	4.5	5.9	5.8	5.2	3.8
SE	.5	2.6	1.6	.6	.4	.2		5.7	14.3	4.7	4.0	6.7	7.4	3.8	6.9	5.2	6.6
S	1.2	6.5	5.8	1.7	.7	.5		16.3	14.4	13.0	14.0	20.7	20.8	17.8	14.5	13.5	15.7
SW	1.0	8.5	8.5	5.0	1.7	.7		25.4	17.1	33.5	26.3	23.3	18.4	26.3	22.8	28.8	26.4
W	.8	6.3	5.7	2.4	.2	.1		15.5	13.5	16.7	14.8	11.8	9.1	16.7	17.8	20.0	17.3
NW	.8	5.9	4.1	1.4	.2	.0		12.3	12.0	15.8	17.9	9.2	10.9	10.3	12.7	10.7	12.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0	.0	3.4	2.0	.5	4.3	1.0	2.0	2.2
TOT OBS	125	661	544	202	60	22	1614		13.7	106	237	255	198	139	197	300	182
TOT PCT	7.7	41.0	33.7	12.5	3.7	1.4		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.7	6.7	2.6	.4	.1		12.4	12.1	10.8	14.3	12.0	12.1
NE	1.9	2.7	1.1	*	.1		5.7	10.6	4.4	10.3	5.1	2.9
E	1.6	2.1	.5	.4	.1		4.6	11.5	3.4	4.6	5.9	4.7
SE	1.5	2.6	.8	.4	.4		5.7	14.3	4.2	7.0	5.6	5.7
S	3.6	7.5	3.3	1.0	.9		16.3	14.4	13.7	20.8	15.8	14.3
SW	3.9	9.9	7.5	2.6	1.5		25.4	17.1	28.5	21.2	24.3	27.9
W	3.3	7.1	4.1	.9	.1		15.5	13.5	15.4	10.6	17.3	19.0
NW	3.1	6.2	2.4	.7	.0		12.3	12.0	17.3	9.9	11.7	11.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.0						2.0	.0	2.3	1.3	2.4	2.1
TOT OBS	380	725	357	103	49	1614		13.7	343	453	336	482
TOT PCT	23.5	44.9	22.1	6.4	3.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.3	4.4	40.8	33.2	13.4	4.7	1.2	14.2	100.0	343
06&09	1.3	6.8	40.6	33.6	13.7	2.4	1.5	13.6	100.0	453
12&15	2.4	5.4	41.7	35.4	10.7	3.6	.9	13.1	100.0	336
18&21	2.1	6.0	40.9	33.0	12.0	4.4	1.7	13.9	100.0	482
TOT	32	93	661	544	202	60	22	13.7		1614
PCT	2.0	5.8	41.0	33.7	12.5	3.7	1.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.0	1.4	3.2	1.6		3.6
NE	2.1	.5	1.1	1.1		4.1
E	1.3	1.4	1.4	.7		4.1
SE	.5	1.0	.7	.6		5.0
S	3.6	3.4	8.5	2.2		4.7
SW	12.1	6.0	10.0	2.4		3.6
W	8.0	3.6	3.4	1.1		2.9
NW	4.5	2.4	3.9	.1		3.4
VAR	.0	.0	.0	.0		.0
CALM	1.0	.2	.7	.2		3.5
TOT OBS	162	83	128	41	414	3.7
TOT PCT	39.1	20.0	30.9	9.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.2	.7	1.3	.4	.8	.0	.0	.0	8.7	
NE	.0	.0	.0	.1	.8	.3	.1	.0	.0	.0	3.4	
E	.0	.0	.2	.5	.2	.4	.0	.0	.0	.0	3.6	
SE	.0	.0	.1	.5	1.0	.1	.2	.0	.0	.0	1.9	
S	.0	.0	.2	2.3	3.2	.7	.2	.0	.0	.0	8.2	
SW	.0	.0	.5	2.5	2.8	2.5	.5	.0	.0	.0	21.7	
W	.0	.0	.0	.0	2.7	.0	.5	.0	.0	.0	13.0	
NW	.0	.0	.0	.2	1.1	.8	.0	.0	.0	.0	8.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.5	.0	.0	.0	.0	.0	1.4	
TOT OBS	0	0	5	29	56	21	10	0	0	0	293	414
TOT PCT	.0	.0	1.2	7.0	13.5	5.1	2.4	.0	.0	.0	70.8	100.0

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 >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
= OR >2000	6.8	7.5	7.5	7.5	7.5	7.5	7.5	7.5
= OR >1000	16.5	20.2	20.9	20.9	20.9	20.9	20.9	20.9
= OR >600	22.1	26.8	27.5	27.5	27.5	27.8	27.8	27.8
= OR >300	22.6	28.0	28.7	28.7	28.7	28.9	28.9	28.9
= OR >150	22.6	28.0	28.7	28.7	28.7	28.9	28.9	28.9
= OR > 0	22.6	28.0	28.7	28.7	28.7	28.9	28.9	28.9
TOTAL	96	119	122	122	122	123	123	123

TOTAL NUMBER OF OBS: 425 PCT FREQ NH <5/8: 71.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
15.1	19.4	16.7	11.4	7.6	6.6	8.9	8.3	6.0	.0	516

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.7	.0	.1	.0	.0	.1	.2	.0	.0	.0	1.1	
	TOT %	.7	.0	.1	.0	.0	.1	.2	.0	.0	.0	1.1	
1<2	PCP	.1	*	*	.0	.0	.1	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	*	.3	.0	.0	.0	.0	.4	
	TOT %	.1	*	*	.0	*	.4	.0	.0	.0	.0	.6	
2<5	PCP	.2	.1	.1	.1	.1	.1	*	.3	.0	.0	.9	
	NO PCP	.0	.1	.0	.0	.2	.1	.0	.0	.0	.0	.4	
	TOT %	.2	.2	.1	.1	.2	.2	*	.3	.0	.0	1.3	
5<10	PCP	.2	.6	.3	.6	1.5	2.8	.5	.5	.0	.0	7.1	
	NO PCP	5.5	2.9	1.2	1.9	4.9	7.5	5.3	4.4	.0	.3	33.9	
	TOT %	5.8	3.5	1.5	2.6	6.4	10.3	5.8	4.9	.0	.3	41.0	
10+	PCP	.0	.1	.1	.2	.6	1.1	.2	.0	.0	.1	2.3	
	NO PCP	6.0	2.0	2.5	2.5	8.8	15.3	9.3	6.6	.0	.7	53.7	
	TOT %	6.0	2.1	2.6	2.6	9.5	16.4	9.4	6.6	.0	.8	56.0	
	TOT OBS												1118
	TOT PCT	12.7	5.8	4.3	5.3	16.1	27.4	15.5	11.8	.0	1.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1	
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	4-10	.2	.0	.1	.0	.0	.1	.0	.0	.0		.4	
	11-21	.4	.0	.0	.0	.0	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.1	.1	.0	.0	.0		.2	
	TOT %	.6	.0	.1	.0	.1	.2	.2	.0	.0	.0	1.1	
1<2	0-3	.1	.0	.0	.0	*	.1	.0	.0	.0	.0	.2	
	4-10	.0	*	*	.0	.0	.2	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.1	.0	.0	.0	.1	.0	.0	.0		.2	
	TOT %	.1	.1	*	.0	*	.4	.0	.0	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.1	.1	.1	.1	.1	.2	.0		.7	
	11-21	.2	.0	.0	.0	.0	.0	.0	.2	.0		.4	
	22+	.1	.0	.0	*	.3	.2	.0	.0	.0		.6	
	TOT %	.2	.2	.1	.1	.4	.2	.1	.4	.0	.0	1.8	
5<10	0-3	.2	.3	.1	.2	.7	.3	.3	.3	.0	.2	2.6	
	4-10	2.1	1.5	.6	.9	1.7	2.1	1.9	2.2	.0		13.1	
	11-21	2.5	1.2	.5	.7	2.0	3.4	2.2	1.2	.0		13.7	
	22+	.5	.2	.2	.5	1.4	3.5	.8	.8	.0		7.9	
	TOT %	5.3	3.2	1.3	2.4	5.8	9.3	5.2	4.5	.0	.2	37.2	
10+	0-3	.5	.2	.2	.2	.7	.6	.2	.7	.0	1.1	4.5	
	4-10	3.1	1.5	2.1	1.5	4.1	6.5	4.3	3.9	.0		27.1	
	11-21	2.2	.7	.3	.7	3.8	6.1	3.8	2.2	.0		19.9	
	22+	.2	.0	.2	.3	1.1	3.9	1.4	.7	.0		7.8	
	TOT %	6.1	2.4	2.7	2.7	9.7	17.0	9.8	7.6	.0	1.1	59.2	
	TOT OBS												1248
	TOT PCT	12.3	5.9	4.3	5.2	16.0	27.2	15.3	12.4	.0	1.4	100.0	

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PERIOD: (PRIMARY) 1906-1972
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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
00&03	.0	.0	1.7	5.9	13.4	5.0	4.2	.0	.0	.0	30.3	69.7	119
06&09	.0	.0	.0	7.6	12.7	5.9	3.4	.0	.0	.0	29.7	70.3	118
12&15	.0	.0	1.5	5.8	8.0	2.9	.7	.0	.0	.0	19.0	81.0	137
18&21	.0	.0	.9	4.5	13.5	4.5	.0	.0	.0	.0	23.4	76.6	111
TOT	0	0	5	29	57	22	10	0	0	0	123	362	485
PCT	.0	.0	1.0	6.0	11.8	4.5	2.1	.0	.0	.0	25.4	74.6	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
00&03	.4	.8	.8	2.5	31.1	64.3	244
06&09	.0	1.1	.3	1.6	43.0	54.1	377
12&15	.0	1.0	.3	2.1	30.2	66.3	291
18&21	.0	1.3	1.1	1.1	41.2	55.3	376
TOT	1	14	8	22	481	762	1288
PCT	.1	1.1	.6	1.7	37.3	59.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.0	11.1	25.3	63.6	99
06&09	.0	.0	9.6	24.0	66.3	104
12&15	.0	1.6	8.2	13.1	78.7	122
18&21	.0	1.0	6.0	20.0	74.0	100
TOT	0	6	37	86	302	425
PCT	.0	1.4	8.7	20.2	71.1	100.0

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	.2	.2	.0	.2	.9	.3	.2	12	1.8
60/64	.0	.0	.6	1.4	5.0	4.9	3.5	.9	107	16.3
55/59	.0	.0	1.4	6.5	14.9	14.3	8.2	4.1	325	49.4
50/54	.0	.2	.2	2.3	8.7	7.0	9.1	3.0	200	30.4
45/49	.0	.0	.3	.0	.8	.6	.3	.2	14	2.1
TOTAL	0	2	17	67	194	182	141	55	658	100.0
PCT	.0	.3	2.6	10.2	29.5	27.7	21.4	8.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.5	.0	.0	.0	.2	.5	.6	.0	.0
4.0	1.6	1.1	1.7	1.3	2.4	1.7	2.4	.0	.2
5.3	2.3	2.4	3.0	8.3	11.1	10.1	6.0	.0	.9
1.7	.3	.8	.5	5.1	12.8	5.9	2.8	.0	.6
.1	.0	.0	.0	.0	1.3	.7	.1	.0	.0
11.1	4.6	4.3	5.1	14.6	27.7	18.9	11.9	.0	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	67	66	64	57	51	48	46	57.0	335
06&09	68	65	63	57	52	49	48	57.2	456
12&15	72	63	62	56	50	49	47	56.1	345
18&21	66	62	61	55	50	48	45	55.3	490
TOT	72	65	62	56	51	48	45	56.4	1626

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	16.4	24.0	27.4	23.3	8.9	72	146
06&09	.0	17.0	28.6	26.4	22.0	6.0	72	182
12&15	.0	14.0	26.3	31.0	20.5	8.2	73	171
18&21	.0	4.8	37.2	26.6	19.7	11.7	75	188
TOT	0	88	202	191	146	60	73	687

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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
9/10	.0	.0	.0	.0	.1	.0	.1	2	.0	.2
7/8	.0	.0	.0	.1	.0	.2	.1	4	.0	.4
6	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
5	.0	.0	.0	.4	.2	.3	.0	9	.0	.9
4	.0	.1	.2	1.1	.3	.2	.0	19	.1	1.8
3	.0	.0	.2	.4	.5	.2	.0	13	.0	1.3
2	.0	.0	.5	1.9	1.3	.1	.0	38	.0	3.9
1	.0	.0	.9	1.6	1.5	.3	.0	[illegible]	.0	4.4
0	.0	.6	1.9	4.6	3.5	.0	.0	104	.1	10.5
-1	.0	.1	3.0	3.4	1.3	.0	.0	76	.0	7.8
-2	.0	.4	3.0	4.5	1.1	.2	.0	90	.2	9.0
-3	.1	.4	4.0	5.7	1.5	.0	.0	115	.3	11.4
-4	.0	1.2	6.3	3.2	.6	.0	.0	111	.5	10.8
-5	.1	2.0	4.5	3.0	.5	.0	.0	99	.3	9.8
-6	.1	1.2	3.9	2.0	.1	.0	.0	72	.1	7.2
-7/-8	.0	2.7	5.7	1.0	.1	.0	.0	93	.3	9.2
-9/-10	.1	2.1	3.3	.8	.0	.0	.0	62	.0	6.3
-11/-13	.4	1.1	.8	.3	.0	.0	.0	26	.0	2.7
-14/-16	.0	.2	.1	.0	.0	.0	.0	3	.0	.3
TOTAL	8	120	375	334	126	15	2	980	19	961
PCT	.8	12.2	38.3	34.1	12.9	1.5	.2	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.0	.0	.0	.0	1.1
1-2	.3	4.1	.6	.0	.0	.0	5.0
3-4	.0	1.0	1.1	.0	.0	.0	2.0
5-6	.0	.3	1.3	.0	.0	.0	1.6
7	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.0	.0	.0	.3
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
TOT PCT	.6	6.2	4.1	.0	.0	.0	10.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	1.0	.3	.0	.0	.0	1.3
3-4	.0	.4	1.0	.0	.0	.0	1.4
5-6	.0	.1	.9	.0	.0	.0	1.0
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	1.8	2.6	.0	.0	.0	4.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	1.4	.0	.0	.0	.0	1.4
3-4	.0	1.4	.0	.0	.0	.0	1.4
5-6	.0	.2	.8	.0	.0	.0	1.0
7	.0	.0	.0	.3	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.3	.0	.3
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
TOT PCT	.0	3.6	.8	.3	.3	.0	5.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.8	.0	.0	.0	.0	.8
3-4	.0	.5	1.3	.0	.0	.0	1.7
5-6	.0	.0	.3	.3	.0	.0	.6
7	.0	.0	.0	.4	.0	.0	.4
8-9	.0	.0	.3	.3	.3	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	1.6	1.9	1.0	.3	.0	4.7

JULY

AREA 0008 CAPE HOWE NE
36.0S 150.7E

PERIOD: (OVER-ALL) 1963-1972

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	1.4	.5	.0	.0	.0	2.0
3-4	.0	3.1	2.9	.5	.0	.0	6.5
5-6	.0	.0	2.3	.8	.0	.0	3.1
7	.0	.5	.3	.2	.0	.0	1.1
8-9	.0	.0	.3	.8	.5	.0	1.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.3	.3	.9
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
TOT PCT	.0	5.6	6.3	2.6	.8	.3	15.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.3	.0	.0	.0	.0	.9
1-2	.0	5.0	.8	.0	.0	.0	5.7
3-4	.0	3.2	4.8	.1	.0	.0	8.1
5-6	.0	.6	3.1	2.5	.3	.0	6.5
7	.0	.1	.1	1.8	.3	.0	2.3
8-9	.0	.0	.3	1.1	1.4	.0	2.7
10-11	.0	.0	.3	.6	.6	.0	1.5
12	.0	.0	.0	.6	.3	.0	.9
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.3
20-22	.0	.0	.0	.3	.0	.3	.3
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
TOT PCT	.6	9.1	9.3	7.2	2.9	.3	29.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.2	.5	.0	.0	.0	.8
1-2	.0	4.4	2.0	.0	.0	.0	6.3
3-4	.0	3.5	2.7	.0	.0	.0	6.2
5-6	.0	.3	1.8	.0	.0	.0	2.1
7	.0	.0	.5	.6	.0	.0	1.1
8-9	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.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
TOT PCT	.3	8.4	7.3	1.7	.5	.0	17.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.6	.4	.0	.0	.0	.0	1.0	
1-2	.0	4.1	.7	.0	.0	.0	4.7	
3-4	.0	.9	1.1	.0	.0	.0	2.0	
5-6	.0	.0	1.4	.3	.0	.0	1.7	
7	.0	.0	.0	.3	.0	.0	.3	
8-9	.0	.0	.3	.3	.0	.0	.6	
10-11	.0	.0	.0	.4	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.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	
TOT PCT	.6	5.3	3.4	1.6	.0	.0	10.9	98.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.3	4.2	.3	.0	.0	.0	7.7	
1-2	.9	21.7	4.8	.0	.0	.0	27.4	
3-4	.0	13.7	14.6	.6	.0	.0	28.9	
5-6	.0	1.5	11.6	3.9	.3	.0	17.3	
7	.0	.6	2.1	3.6	.3	.0	6.5	
8-9	.0	.0	1.2	3.0	2.1	.0	6.3	
10-11	.0	.0	.6	1.2	.6	.0	2.4	
12	.0	.0	.0	.6	.6	.0	1.2	
13-16	.0	.0	.0	1.2	.3	.3	1.8	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.3	.3	
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	336
TOT PCT	4.2	41.7	35.1	14.3	4.2	.6	100.0	

TABLE 19

PERIOD: (OVER-ALL) 1949-1972

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	6.8	13.6	4.8	2.0	.8	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	122	3
6-7	.0	.8	4.0	10.6	8.6	2.8	1.3	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123	6
8-9	.0	.5	2.8	5.3	4.8	3.5	2.3	.8	2.0	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	90	8
10-11	.0	.0	.3	1.3	1.5	.5	.5	.8	.5	.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	24	9
12-13	.0	.0	.3	.3	.0	.5	.5	.0	.8	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	12	12
>13	.0	.0	.0	.3	.3	.0	.3	.0	.3	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	6	14
INDET	1.3	.5	.5	.5	.3	.5	.0	.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	6
TOTAL	13	34	85	91	69	34	21	17	22	5	4	2	0	0	0	0	0	0	0	397	6
PCT	3.3	8.6	21.4	22.9	17.4	8.6	5.3	4.3	5.5	1.3	1.0	.5	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1902-1972
(OVER-ALL) 1855-1972

AREA 0008 CAPE HOWE NE
36.1S 150.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.5	.6	.3	.0	.0	.0	.0	2.3	1.6	2.9	1.5	.0	.4	.0		92.7
NE	2.8	3.7	4.3	.0	.0	.0	.0	10.7	2.4	3.7	4.3	.0	1.5	.0		78.6
E	10.6	11.1	6.1	.0	.0	.0	.0	27.8	1.7	2.2	4.4	.0	.0	.0		66.1
SE	3.8	11.5	7.2	.0	.0	.0	.0	22.5	2.9	.0	6.7	.0	1.9	.0		66.0
S	2.9	11.1	2.7	.0	.0	.0	.0	16.8	2.0	2.0	1.5	.0	.0	.0		79.2
SW	4.1	8.4	2.8	.0	.0	.0	.5	15.8	2.0	3.9	.9	.0	.5	.0		78.1
W	3.1	.0	.9	.0	.0	.0	.0	4.1	3.1	5.7	1.5	.0	1.1	.0		84.8
NW	1.2	.8	1.2	.0	.0	.0	.0	3.2	2.2	4.2	2.0	.0	1.2	.0		88.4
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	7.1	.0		92.9
TOT PCT	3.1	5.0	2.4	.0	.0	.0	.1	10.6	2.2	3.4	2.1	.0	.8	.0		82.1
TOT OBS:	974															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.1	5.2	2.6	.0	.0	.0	.0	10.8	1.5	.0	1.5	.0	2.1	.0		84.0
06&09	3.1	3.8	2.1	.0	.0	.0	.3	9.3	3.4	3.1	2.4	.0	1.0	.0		83.1
12&15	2.8	2.8	3.2	.0	.0	.0	.0	8.7	2.8	7.5	2.0	.0	.4	.0		79.8
18&21	4.3	7.5	2.1	.0	.0	.0	.0	13.9	1.1	3.6	2.5	.0	.0	.0		80.1
TOT PCT	3.3	4.8	2.5	.0	.0	.0	.1	10.7	2.3	3.7	2.2	.0	.8	.0		81.6
TOT OBS:	1017															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	9.4	6.6	.8	.1	.1		17.9	11.0	11.2	14.2	17.4	20.6	15.9	26.8	17.8	15.5
NE	.7	4.4	2.2	.4	*	.1		7.9	10.7	6.0	4.7	10.8	14.3	13.9	4.8	5.5	4.4
E	.5	2.6	.8	.2	.1	.0		4.2	9.3	2.9	4.3	7.5	6.0	4.0	1.9	3.5	2.0
SE	.3	2.7	1.7	.6	*	.0		5.3	11.5	4.5	6.8	6.8	6.6	3.8	6.3	3.2	3.5
S	.4	4.7	6.3	2.7	.3	.0		14.4	14.8	16.4	14.9	17.2	15.6	11.1	11.8	11.5	17.0
SW	.5	6.2	8.1	4.1	1.5	.1		20.5	16.8	28.6	20.2	18.2	15.5	22.8	18.1	21.6	24.6
W	.7	5.4	5.5	2.2	.6	.0		14.4	14.3	17.6	15.1	12.0	8.5	14.9	15.5	18.1	14.6
NW	.8	6.4	5.4	1.1	.1	.0		13.8	11.8	10.0	17.6	9.3	10.3	12.1	14.7	16.9	17.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.6	.3	2.9	2.2	.8	2.6	1.4	.0	2.0	1.2
TOT OBS	99	647	566	186	43	5	1546		13.1	105	225	258	189	138	207	253	171
TOT PCT	6.4	41.8	36.6	12.0	2.8	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.5	10.4	2.6	.3	.1		17.9	11.0	13.3	18.8	22.5	16.9
NE	2.3	4.2	1.2	.1	.1		7.9	10.7	5.1	12.2	8.5	5.1
E	2.0	1.6	.5	.1	*		4.2	9.3	3.9	6.8	2.8	2.9
SE	1.2	2.9	1.1	.1	.0		5.3	11.5	6.1	6.7	5.3	3.3
S	2.3	6.8	4.0	1.3	*		14.4	14.8	15.4	16.6	11.5	13.7
SW	3.2	8.0	6.0	2.7	.7		20.5	16.8	22.9	17.1	20.0	22.8
W	3.0	6.0	4.1	1.1	.1		14.4	14.3	15.9	10.5	15.2	16.7
NW	3.2	7.2	2.9	.5	*		13.8	11.8	15.2	9.7	13.7	17.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.5						1.6	.3	2.4	1.6	.6	1.7
TOT OBS	358	730	346	94	18	1546		13.1	330	447	345	424
TOT PCT	23.2	47.2	22.4	6.1	1.2		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1902-1972
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.4	5.8	36.7	37.9	13.6	3.0	.6	13.7	100.0	330
06&09	1.6	4.3	42.5	38.5	10.7	2.5	.0	12.7	100.0	447
12&15	.6	4.6	43.8	35.9	11.9	2.6	.6	13.2	100.0	345
18&21	1.7	5.2	43.4	34.2	12.3	3.1	.2	13.0	100.0	424
TOT	24	76	646	566	186	43	5	13.1		1546
PCT	1.6	4.9	41.8	36.6	12.0	2.8	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.5	1.5	2.9	2.2		3.6
NE	4.0	1.7	3.1	1.7		4.1
E	1.4	.3	1.5	1.3		5.3
SE	.7	1.3	2.5	.7		5.2
S	3.3	4.0	9.0	2.6		4.5
SW	9.7	4.7	7.7	3.2		3.9
W	7.9	3.5	3.6	.8		3.0
NW	4.9	1.2	2.7	.8		3.1
VAR	.0	.0	.0	.0		.0
CALM	.5	.3	.5	1.0		3.4
TOT OBS	148	72	115	56	391	3.9
TOT PCT	37.9	18.4	29.4	14.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.2	1.4	1.2	.3	.0	.0	.0	8.1	
NE	.0	.0	.3	.8	1.2	.8	.3	.0	.0	.3	7.0	
E	.0	.0	.0	.3	.8	.4	.0	.0	.0	.0	3.0	
SE	.0	.0	.0	.5	1.9	.4	.0	.0	.0	.0	2.4	
S	.0	.0	.3	1.3	2.5	1.8	.3	.0	.0	.0	8.6	
SW	.0	.0	1.0	1.9	2.8	2.6	1.0	.0	.0	.0	10.0	
W	.0	.0	.3	.9	1.1	.9	.2	.0	.0	.0	12.4	
NW	.0	.0	.0	.4	1.2	.8	.0	.0	.0	.3	7.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.3	.0	.5	.3	.0	.0	.0	.0	1.0	
TOT OBS	0	0	8	28	52	37	8	0	0	2	256	391
TOT PCT	.0	.0	2.0	7.2	13.3	9.5	2.0	.0	.0	.5	65.5	100.0

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 >50YD	= OR >0
= OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
= OR >4000	.5	.5	.5	.5	.5	.5	.5	.5
= OR >3500	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
= OR >2000	10.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
= OR >1000	22.8	25.3	25.6	25.6	25.6	25.6	25.6	25.6
= OR >600	26.3	32.0	33.0	33.0	33.0	33.0	33.0	33.0
= OR >300	27.0	33.7	34.7	34.7	35.0	35.0	35.0	35.0
= OR >150	27.0	33.7	34.7	34.7	35.0	35.0	35.0	35.0
= OR > 0	27.0	33.7	34.7	34.7	35.0	35.0	35.0	35.0
TOTAL	109	136	140	140	141	141	141	141

TOTAL NUMBER OF OBS: 403

PCT FREQ NH <5/8: 65.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	.0	TOTAL OBS
13.5	18.5	13.8	10.3	7.7	8.4	9.0	8.0	10.8	.0	465

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.1	.1	.0	.0	.0	.3	.0	.0	.0	.0	.4	
	NO PCP	.1	.3	.1	.0	.1	.3	.0	.0	.0	.0	.7	
	TOT %	.1	.4	.1	.0	.1	.6	.0	.0	.0	.0	1.1	
1<2	PCP	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	
	TOT %	.0	.0	.1	.1	.1	.1	.1	.1	.0	.0	.5	
2<5	PCP	.0	.0	.0	.0	.4	.3	.0	.0	.0	.0	.6	
	NO PCP	.1	*	.1	.2	.1	.2	.0	.0	.0	.0	.6	
	TOT %	.1	*	.1	.2	.5	.5	.0	.0	.0	.0	1.2	
5<10	PCP	.3	.6	1.1	.6	1.5	2.0	.3	.4	.0	.0	6.8	
	NO PCP	7.5	2.4	.6	2.0	3.3	5.9	3.7	4.1	.0	.1	29.6	
	TOT %	7.8	3.1	1.7	2.5	4.7	7.9	4.0	4.5	.0	.1	36.3	
10+	PCP	.1	.2	.1	.5	.4	.8	.3	.0	.0	.0	2.4	
	NO PCP	9.7	4.7	2.6	2.1	8.3	12.0	9.5	8.2	.0	1.3	58.4	
	TOT %	9.8	5.0	2.7	2.6	8.7	12.8	9.8	8.2	.0	1.3	60.8	
	TOT OBS												974
	TOT PCT	17.7	8.4	4.6	5.4	14.1	21.8	13.9	12.8	.0	1.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.2	.0	.0	.0	.0	.0	.0	.0		.3	
	11-21	.0	.1	.0	.0	.0	.1	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	*	.4	.0	.0	.0		.4	
	TOT %	.1	.3	*	.0	*	.5	.0	.0	.0	.0	1.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	*	*	*	*	.0		.2	
	22+	.0	.0	.1	.0	*	*	.0	.0	.0		.2	
	TOT %	.0	.0	.1	.1	.2	.1	*	*	.0	.0	.5	
2<5	0-3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.2	*	*	.0	.0	.1	.0	.0	.0		.4	
	11-21	.0	.0	*	.1	.1	.1	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.3	.3	.0	.2	.0		.7	
	TOT %	.2	.1	.1	.1	.4	.5	.0	.2	.0	.0	1.6	
5<10	0-3	.5	*	.0	.0	.2	.2	.2	.4	.0	.1	1.6	
	4-10	3.1	1.3	.9	.8	1.0	1.9	1.2	1.8	.0		12.0	
	11-21	2.8	1.3	.4	.8	2.0	3.0	1.5	1.3	.0		13.2	
	22+	.6	.1	.2	.6	1.0	2.0	.7	.5	.0		5.7	
	TOT %	7.0	2.7	1.5	2.3	4.3	7.1	3.6	3.9	.0	.1	32.5	
10+	0-3	.5	.5	.4	.1	.1	.4	.5	.4	.0	1.3	4.2	
	4-10	6.0	3.4	1.7	2.1	3.5	4.3	4.1	4.2	.0		29.4	
	11-21	4.4	1.2	.5	.7	4.5	5.4	4.2	3.8	.0		24.7	
	22+	.2	.3	.0	.2	1.4	2.7	1.2	.2	.0		6.1	
	TOT %	11.1	5.4	2.6	3.2	9.6	12.8	9.9	8.5	.0	1.3	64.4	
	TOT OBS												1117
	TOT PCT	18.4	8.5	4.3	5.7	14.5	20.9	13.5	12.7	.0	1.4	100.0	

AUGUST

PERIOD: (PRIMARY) 1902-1972
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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
00&03	.0	.0	2.9	7.8	15.5	7.8	1.9	.0	.0	.0	35.9	64.1	103
06&09	.0	.0	.8	7.6	12.6	10.1	4.2	.0	.0	.0	35.3	64.7	119
12&15	.0	.0	2.3	7.0	10.9	7.0	.0	.0	.0	.8	28.1	71.9	128
18&21	.0	.0	1.1	4.5	11.4	10.2	1.1	.0	.0	1.1	29.5	70.5	88
TOT	0	0	8	30	55	38	8	0	0	2	141	297	438
PCT	.0	.0	1.8	6.8	12.6	8.7	1.8	.0	.0	.5	32.2	67.8	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
00&03	.0	1.0	.5	2.4	28.6	67.5	206
06&09	.0	.9	.0	1.7	33.9	63.5	351
12&15	.0	1.4	.7	.7	25.2	72.1	290
18&21	.0	.6	1.0	1.6	40.9	55.9	313
TOT	0	11	6	18	379	746	1160
PCT	.0	.9	.5	1.6	32.7	64.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.2	12.6	27.4	60.0	95
06&09	.0	.9	9.3	29.6	61.1	108
12&15	.0	2.5	11.0	19.5	69.5	118
18&21	.0	1.2	6.1	25.6	68.3	82
TOT	0	8	40	102	261	403
PCT	.0	2.0	9.9	25.3	64.8	100.0

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	.2	.0	.0	.0	.0	.0	1	.2
70/74	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
65/69	.0	.0	.0	.2	.9	.7	.5	.5	16	2.9
60/64	.0	.2	.9	2.0	5.9	7.0	5.6	2.9	136	24.5
55/59	.0	.0	1.8	4.9	14.6	15.0	9.7	5.9	288	51.9
50/54	.0	.0	.2	3.1	5.2	4.7	4.5	1.3	105	18.9
45/49	.0	.0	.0	.0	.2	.9	.2	.2	8	1.4
TOTAL	0	1	17	56	150	157	114	60	555	100.0
PCT	.0	.2	3.1	10.1	27.0	28.3	20.5	10.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
	1.1	.3	.1	.1	.1	*	.0	1.0	.0	.2
	6.8	2.4	1.3	.8	1.8	2.9	4.1	4.2	.0	.2
	7.0	5.0	2.9	3.2	9.1	10.6	8.4	4.5	.0	1.3
	.5	.0	.5	.6	4.6	6.8	3.2	2.5	.0	.2
	.0	.0	.0	.0	.2	.6	.7	.0	.0	.0
	15.8	7.7	4.8	4.6	15.9	20.9	16.4	12.3	.0	1.8

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	72	68	64	58	52	49	48	58.2	322
06&09	75	68	64	58	53	49	45	58.2	439
12&15	77	66	63	57	51	48	48	57.1	346
18&21	70	65	62	56	50	48	47	56.0	424
TOT	77	67	63	57	51	48	45	57.3	1531

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	14.4	21.2	32.2	18.6	13.6	74	118
06&09	.0	14.6	26.8	29.9	18.3	10.4	72	164
12&15	.0	12.7	29.1	29.1	20.9	8.2	73	158
18&21	.0	11.0	30.1	20.6	25.7	12.5	75	136
TOT	0	76	156	161	120	63	73	576

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
9/10	.0	.0	.0	.1	.1	.0	.1	.0	3	.0	.4
7/8	.0	.0	.0	.0	.6	.1	.1	.1	8	.0	.9
6	.0	.0	.0	.1	.2	.0	.0	.0	3	.0	.4
5	.0	.0	.2	.2	.7	.5	.0	.0	14	.0	1.6
4	.0	.0	.1	1.3	1.4	.2	.0	.0	26	.2	2.8
3	.0	.1	.2	.9	2.0	.5	.0	.0	32	.0	3.8
2	.0	.0	.5	2.1	2.7	.5	.0	.0	49	.1	5.6
1	.0	.1	.8	3.1	2.2	.5	.1	.0	58	.1	6.7
0	.0	.2	1.3	6.0	3.3	.2	.0	.0	94	.1	10.9
-1	.0	.7	2.5	4.8	1.5	.1	.0	.0	82	.1	9.5
-2	.0	.8	3.2	6.4	1.1	.0	.0	.0	97	.5	11.0
-3	.0	.5	5.5	4.6	.6	.0	.0	.0	95	.5	10.7
-4	.0	.9	6.0	2.9	1.1	.0	.0	.0	93	.2	10.7
-5	.0	1.6	4.1	1.6	.4	.0	.0	.0	66	.1	7.6
-6	.1	.4	3.8	1.3	.1	.0	.0	.0	48	.0	5.6
-7/-8	.2	1.1	3.8	1.5	.2	.0	.0	.0	38	.0	4.8
-9/-10	.2	.6	.9	.0	.0	.0	.0	.0	15	.1	1.6
-11/-13	.2	.4	.2	.1	.0	.0	.0	.0	8	.0	.9
TOTAL	7	63	282	316	155	22	4	1	850	18	832
PCT	.8	7.4	33.2	37.2	18.2	2.6	.5	.1	100.0	2.1	97.9

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.0	.0	.0	.0	.0	.6
1-2	.0	3.5	1.6	.0	.0	.0	5.1
3-4	.0	1.5	1.8	.0	.0	.0	3.3
5-6	.0	.9	2.8	.3	.0	.0	4.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.6	6.0	6.3	.6	.0	.0	13.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	2.0	.3	.0	.0	.0	2.3
3-4	.0	1.0	.2	.0	.0	.0	1.2
5-6	.0	1.0	1.4	.3	.0	.0	2.7
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	5.4	2.2	.7	.0	.0	8.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.6	.0	.0	.0	1.9
3-4	.0	.3	.3	.0	.0	.0	.6
5-6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	1.6	1.8	.0	.0	.0	3.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	2.0	.4	.0	.0	.0	2.4
3-4	.0	1.0	.1	.0	.0	.0	1.1
5-6	.0	.3	.1	.0	.0	.0	.4
7	.0	.0	.0	.7	.0	.0	.7
8-9	.0	.0	.1	.0	.1	.0	.2
10-11	.0	.0	.0	.3	.0	.0	.3
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
TOT PCT	.0	3.4	.7	1.0	.1	.0	5.2

PERIOD: (OVER-ALL) 1963-1972

AUGUST

TABLE 18 (CONT)

AREA 0008 CAPE HOWE NE
36.1S 150.9E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	3.4	2.4	.0	.0	.0	5.8
3-4	.0	1.3	3.1	.0	.0	.0	4.4
5-6	.0	.0	1.4	.7	.0	.0	2.1
7	.0	.0	.9	.3	.0	.0	1.2
8-9	.0	.0	.6	.0	.3	.0	.9
10-11	.0	.0	.0	.8	.0	.0	.8
12	.0	.0	.0	.6	.0	.0	.6
13-16	.0	.0	.0	.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
TOT PCT	.0	5.0	8.3	2.7	.3	.0	16.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.7	.0	.0	.0	.0	1.0
1-2	.0	4.7	2.6	.0	.0	.0	7.3
3-4	.0	2.5	3.6	.0	.0	.0	6.1
5-6	.0	.0	2.9	.3	.1	.0	3.3
7	.0	.0	1.5	1.5	.3	.0	3.3
8-9	.0	.0	.3	.4	.0	.0	.8
10-11	.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.1	.3	.0	.4
17-19	.0	.0	.0	.0	.7	.0	.7
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
TOT PCT	.3	7.9	11.0	3.3	1.5	.0	24.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.4	.0	.0	.0	.0	2.1
1-2	.0	3.2	.5	.0	.0	.0	3.7
3-4	.0	1.3	2.8	.3	.0	.0	4.5
5-6	.0	.3	2.1	.0	.3	.0	2.7
7	.0	.0	.7	.9	.0	.0	1.6
8-9	.0	.0	.7	.3	.0	.0	.9
10-11	.0	.0	.0	.0	.3	.0	.3
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
TOT PCT	.7	6.2	6.8	1.5	.6	.0	15.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	1.0	.0	.0	.0	.0	1.1	
1-2	.0	2.6	1.1	.0	.0	.0	3.7	
3-4	.0	.3	3.3	.0	.0	.0	3.5	
5-6	.0	.1	1.1	.3	.0	.0	1.5	
7	.0	.0	1.4	.0	.0	.0	1.4	
8-9	.0	.0	.0	.1	.0	.0	.1	
10-11	.0	.0	.0	.3	.0	.0	.3	
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	
TOT PCT	.1	3.9	6.8	.8	.0	.0	11.6	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.4	5.7	.0	.0	.0	.0	10.1	
1-2	.0	22.1	9.4	.0	.0	.0	31.5	
3-4	.0	9.1	14.8	.3	.0	.0	24.2	
5-6	.0	2.7	12.1	2.0	.3	.0	17.1	
7	.0	.0	5.0	3.4	.3	.0	8.7	
8-9	.0	.0	1.7	1.3	.3	.0	3.4	
10-11	.0	.0	.0	2.0	.3	.0	2.3	
12	.0	.0	.0	1.0	.0	.0	1.0	
13-16	.3	.0	.0	.3	.3	.0	1.0	
17-19	.0	.0	.0	.0	.7	.0	.7	
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	
								298
TOT PCT	4.7	39.6	43.0	10.4	2.3	.0	100.0	

PERIOD: (OVER-ALL) 1949-1972

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	7.5	11.7	7.8	4.5	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123	4
6-7	.0	.6	6.1	7.0	7.0	1.1	.8	.8	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	86	6
8-9	.0	.0	2.5	5.8	5.6	3.1	2.8	1.4	.8	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	83	8
10-11	.0	.6	.8	1.4	2.2	1.7	1.4	.8	1.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	37	8
12-13	.0	.0	.6	.0	.6	.0	.6	.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	9
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	1.7	.0	1.4	1.1	.3	.3	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	4
TOTAL	12	31	83	83	72	24	24	12	12	2	3	1	0	0	0	0	0	0	0	359	6
PCT	3.3	8.6	23.1	23.1	20.1	6.7	6.7	3.3	3.3	.6	.8	.3	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1895-1971
(OVER-ALL) 1855-1971

AREA 0008 CAPE HOWE NE
36.0S 150.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.6	1.4	1.5	.0	.0	.0	.0	4.5	1.1	1.9	2.7	.0	4.5	.0	85.3
NE	2.8	3.7	.2	.0	.0	.0	.0	6.7	.0	2.1	3.7	.0	7.4	.0	80.2
E	.0	14.6	1.3	.0	.0	.0	1.3	17.2	.0	.0	.0	.0	1.3	.0	81.5
SE	3.7	5.9	.7	.0	.0	.0	.7	11.1	.0	1.5	1.5	.0	.0	.0	86.0
S	4.5	10.[illegible]	1.0	.0	.0	.0	.5	16.9	3.6	3.2	1.0	.0	1.2	.0	75.7
SW	7.6	8.[illegible]	2.6	.0	.0	.0	.0	18.9	2.1	5.1	3.6	.0	.9	.0	71.7
W	5.4	5.2	.4	.0	.0	.0	.0	11.0	1.4	3.6	1.6	.0	2.2	.0	80.2
NW	.0	2.6	3.7	.0	.0	.0	.0	6.3	1.1	7.6	6.3	.0	.3	.0	78.4
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	.0	.0	100.0
TOT PCT	3.8	6.3	1.5	.0	.0	.0	.2	11.8	1.6	3.4	2.6	.0	2.4	.0	79.0
TOT OBS:	1021														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.4	6.4	1.0	.0	.0	.0	.5	11.3	2.0	.0	1.0	.0	2.0	.0	83.7
06&09	2.3	6.1	.3	.0	.0	.0	.3	9.0	.3	1.0	3.2	.0	3.2	.0	83.9
12&15	6.7	5.0	.8	.0	.0	.0	.0	12.6	2.1	7.5	1.7	.0	3.3	.0	74.9
18&21	6.4	7.7	3.1	.0	.0	.0	.0	17.2	2.1	5.2	3.4	.0	1.2	.0	71.5
TOT PCT	4.7	6.4	1.4	.0	.0	.0	.2	12.7	1.6	3.5	2.5	.0	2.4	.0	78.1
TOT OBS:	1078														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	8.4	7.2	1.5	.1	.0		18.3	11.5	18.0	18.4	14.9	21.3	17.9	22.5	18.5	14.6
NE	.2	5.2	4.8	.6	.1	.0		10.9	11.7	4.1	10.3	18.2	15.5	10.0	10.9	8.4	4.8
E	.4	2.8	.7	.3	.1	.0		4.3	10.0	4.3	4.9	4.6	6.0	2.7	5.2	3.2	3.3
SE	.8	3.5	2.2	.4	.1	.0		7.0	10.1	4.5	6.9	9.6	10.4	9.8	6.2	3.5	6.0
S	.5	5.8	7.0	3.9	.4	.3		17.9	15.7	20.0	18.0	19.4	15.4	21.5	14.9	16.5	21.1
SW	.7	4.9	7.7	3.5	.9	.3		18.0	16.7	25.2	18.2	18.7	11.4	15.8	17.8	21.1	20.5
W	.6	4.4	4.0	2.2	.6	.2		11.9	15.7	14.2	11.0	10.0	11.9	13.1	10.0	15.0	10.2
NW	.4	4.8	3.7	1.2	.0	.0		10.0	12.0	8.8	10.7	5.6	6.5	5.8	12.1	11.9	17.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0	.9	1.7	2.0	1.5	3.3	.5	1.9	1.8
TOT OBS	102	644	602	217	36	12	1613		13.4	111	242	251	201	120	211	311	166
TOT PCT	6.3	39.9	37.3	13.5	2.2	.7		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.4	10.0	3.6	.3	.0		18.3	11.5	18.3	17.8	20.8	17.1
NE	2.1	6.9	1.6	.3	.0		10.9	11.7	8.4	17.0	10.6	7.2
E	2.0	1.6	.4	.3	.0		4.3	10.0	4.7	5.2	4.3	3.2
SE	2.5	3.4	.9	.2	.0		7.0	10.1	6.2	10.0	7.5	4.4
S	2.7	7.8	5.3	1.7	.4		17.9	15.7	18.6	17.6	17.3	18.1
SW	2.7	6.9	6.0	1.6	.7		18.0	16.7	20.4	13.8	17.1	20.9
W	1.8	5.2	3.3	1.3	.3		11.9	15.7	12.0	10.8	11.1	13.3
NW	2.2	5.5	2.1	.2	.0		10.0	12.0	10.1	6.0	9.8	13.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	1.4	1.8	1.5	1.9
TOT OBS	356	764	374	95	24	1613		13.4	353	452	331	477
TOT PCT	22.1	47.4	23.2	5.9	1.5		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1895-1971
(OVER-ALL) 1855-1971

AREA 0008 CAPE HOWE NE
36.0S 150.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.4	4.5	41.1	35.4	14.4	2.0	1.1	13.7	100.0	353
06&09	1.8	6.6	36.3	39.4	13.3	2.2	.4	13.2	100.0	452
12&15	1.5	3.6	39.6	40.2	12.4	2.1	.6	13.3	100.0	331
18&21	1.9	3.6	42.8	34.8	13.6	2.5	.8	13.4	100.0	477
TOT	27	75	644	602	217	36	12	13.4		1613
PCT	1.7	4.6	39.9	37.3	13.5	2.2	.7		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.6	2.8	4.4	2.6		3.9
NE	2.6	1.4	2.3	2.8		4.8
E	1.4	.3	1.3	.4		4.0
SE	3.6	.6	1.3	1.1		3.5
S	5.7	4.7	7.0	3.6		4.4
SW	7.7	4.0	8.6	1.1		3.8
W	3.9	2.0	5.0	2.1		4.4
NW	3.8	.5	2.3	.4		3.2
VAR	.0	.0	.0	.0		.0
CALM	1.0	.5	.3	.0		2.4
TOT OBS	145	67	129	57	398	4.0
TOT PCT	36.4	16.8	32.4	14.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.3	2.2	1.2	.4	.1	.0	.3	12.0	
NE	.3	.0	.0	.5	.3	1.1	.6	.3	.0	.3	6.0	
E	.0	.0	.0	.3	.3	.2	.0	.0	.0	.0	2.8	
SE	.0	.0	.0	.0	1.3	.5	.1	.0	.0	.0	4.6	
S	.0	.0	.2	1.2	3.2	2.9	.4	.0	.0	.0	13.2	
SW	.0	.0	.3	1.4	3.5	.1	.0	.4	.0	.0	15.7	
W	.0	.0	.3	.7	3.1	.3	.7	.1	.0	.0	7.9	
NW	.0	.0	.0	.0	1.2	.1	.6	.1	.0	.0	5.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	1.5	
TOT OBS	1	0	3	17	60	25	12	4	0	2	274	398
TOT PCT	.3	.0	.8	4.3	15.1	6.3	3.0	1.0	.0	.5	68.8	100.0

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 >50YD	= OR >0
= OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
= OR >5000	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >3500	4.0	4.3	4.5	4.5	4.5	4.5	4.5	4.5
= OR >2000	9.8	10.8	11.3	11.3	11.3	11.3	11.3	11.3
= OR >1000	21.8	25.5	26.0	26.0	26.0	26.0	26.0	26.0
= OR >600	23.8	29.5	30.3	30.3	30.3	30.3	30.3	30.3
= OR >300	24.3	30.3	31.0	31.0	31.0	31.0	31.0	31.0
= OR >150	24.3	30.3	31.0	31.0	31.0	31.0	31.0	31.0
= OR > 0	24.3	30.3	31.0	31.0	31.0	31.0	31.3	31.3
TOTAL	97	121	124	124	124	124	125	125

TOTAL NUMBER OF OBS: 400

PCT FREQ NH <5/8: 68.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
13.6	19.6	16.4	11.1	6.2	7.1	8.2	7.3	10.2	.2	450

PERIOD: (PRIMARY) 1895-1971
(OVER-ALL) 1855-1971

AREA 0008 CAPE HOWE NE
36.0S 150.8E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.1	*	.2	.0	.3	.0	.0	.7	
	NO PCP	.2	.2	.0	.1	*	.5	.1	.6	.0	.0	1.9	
	TOT %	.2	.2	.0	.2	.1	.8	.1	.9	.0	.0	2.5	
1<2	PCP	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.2	
	NO PCP	.6	.3	*	.0	.2	*	.0	.0	.0	.0	1.3	
	TOT %	.6	.3	*	.0	.3	*	.1	.0	.0	.0	1.5	
2<5	PCP	.0	.1	.0	.1	.2	.3	.1	.0	.0	.0	.9	
	NO PCP	.2	*	.0	.1	.1	.1	.2	.0	.0	.0	.7	
	TOT %	.2	.1	.0	.2	.3	.4	.3	.0	.0	.0	1.6	
5<10	PCP	.6	.6	.5	.5	2.9	2.5	.9	.3	.0	.0	8.8	
	NO PCP	6.9	4.1	.8	1.9	5.0	4.8	3.6	4.4	.0	.0	31.5	
	TOT %	7.5	4.8	1.4	2.4	7.9	7.2	4.5	4.7	.0	.0	40.4	
10+	PCP	.2	.0	.1	.0	.1	.5	.3	.0	.0	.0	1.2	
	NO PCP	9.2	5.1	2.2	3.8	10.9	10.0	6.9	3.8	.0	.8	52.8	
	TOT %	9.4	5.1	2.3	3.8	11.0	10.6	7.2	3.8	.0	.8	54.0	
	TOT OBS												1021
	TOT PCT	18.0	10.7	3.7	6.6	19.7	19.0	12.2	9.3	.0	.8	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.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	
	4-10	.1	.1	.0	.1	.0	.3	.0	.3	.0		.9	
	11-21	.1	.1	.0	.1	*	.2	.0	.3	.0		.8	
	22+	.1	.0	.0	.0	*	.2	.1	.3	.0		.7	
	TOT %	.3	.2	.0	.2	.1	.7	.1	.8	.0	.0	2.4	
1<2	0-3	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	4-10	.3	.2	*	.0	.1	*	.1	.0	.0		.8	
	11-21	.2	.1	.0	.0	.1	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	TOT %	.5	.3	*	.0	.4	*	.1	.0	.0	.0	1.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	.2	*	.1	.1	.0	.0		.4	
	11-21	.2	.1	.0	*	.1	.1	.1	.0	.0		.6	
	22+	.0	.0	.0	.0	.1	.2	.1	.0	.0		.4	
	TOT %	.2	.1	*	.2	.3	.4	.3	.0	.0	.0	1.5	
5<10	0-3	1.0	.1	.1	.3	.2	.2	.3	.1	.0	.0	2.3	
	4-10	2.7	2.6	.9	1.3	1.5	1.1	1.0	1.5	.0		12.6	
	11-21	2.8	1.5	.3	.5	2.4	2.5	1.3	1.9	.0		13.2	
	22+	.5	.2	.0	.3	3.3	2.8	1.5	.7	.0		9.1	
	TOT %	7.0	4.4	1.3	2.4	7.3	6.6	4.0	4.2	.0	.0	37.2	
10+	0-3	.2	.1	.3	.4	.4	.4	.2	.2	.0	1.1	3.3	
	4-10	4.9	1.7	1.9	2.1	4.3	3.3	3.0	2.5	.0		23.7	
	11-21	4.9	3.2	.6	1.3	4.9	6.1	3.1	1.7	.0		25.9	
	22+	.4	.2	.0	.0	1.3	1.2	1.3	.2	.0		4.6	
	TOT %	10.5	5.1	2.8	3.8	10.9	11.0	7.5	4.7	.0	1.1	57.5	
	TOT OBS												1144
	TOT PCT	18.4	10.2	4.1	6.6	19.0	18.7	12.0	9.7	.0	1.1	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1895-1971
(OVER-ALL) 1855-1971

AREA 0008 CAPE HOWE NE
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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
00&03	.0	.0	.9	3.7	19.6	5.6	2.8	.9	.0	.0	33.6	66.4	107
06&09	.0	.0	.0	1.0	12.0	9.0	2.0	1.0	.0	1.0	26.0	74.0	100
12&15	.0	.0	.9	6.3	10.8	7.2	3.6	1.8	.0	.9	31.5	68.5	111
18&21	.9	.0	.9	4.6	13.8	3.7	2.8	.0	.0	.0	26.6	73.4	109
TOT	1	0	3	17	60	27	12	4	0	2	126	301	427
PCT	.2	.0	.7	4.0	14.1	6.3	2.8	.9	.0	.5	29.5	70.5	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
00&03	.0	.9	.5	1.4	34.1	63.1	214
06&09	.0	2.6	1.7	2.0	42.9	50.9	352
12&15	.0	1.1	2.6	1.5	34.8	60.0	270
18&21	.3	3.6	1.1	1.1	42.2	51.8	365
TOT	1	27	18	18	472	665	1201
PCT	.1	2.2	1.5	1.5	39.3	55.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.0	5.8	29.1	65.0	103
06&09	.0	.0	2.1	26.6	71.3	94
12&15	.0	1.0	9.9	25.7	64.4	101
18&21	1.0	2.0	7.8	20.6	71.6	102
TOT	1	4	26	102	272	400
PCT	.3	1.0	6.5	25.5	68.0	100.0

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
80/84	.0	.0	.0	.0	.0	.2	.0	.0	1	.2
75/79	.0	.0	.2	.0	.0	.0	.0	.0	1	.2
70/74	.0	.0	.0	.0	.3	.0	.3	.2	5	.8
65/69	.0	.2	.0	.7	1.7	2.4	2.2	1.4	50	8.5
60/64	.0	.2	.7	2.5	5.8	10.2	11.7	5.2	214	36.2
55/59	.0	.0	1.2	3.7	9.5	13.2	11.0	3.9	250	42.3
50/54	.0	.0	.2	1.5	3.7	2.2	2.7	1.0	67	11.3
45/49	.0	.0	.0	.0	.2	.2	.0	.2	3	.5
TOTAL	0	2	13	50	124	167	165	70	591	100.0
PCT	.0	.3	2.2	8.5	21.0	28.3	27.9	11.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	*	.0	.0	.0	.0
.0	.0	.0	.0	.0	*	.1	.0	.0	.0
.5	.2	.0	.0	.0	.1	.1	.0	.0	.0
2.6	1.4	.4	.0	.8	.9	.7	1.6	.0	.0
11.1	6.3	1.0	2.7	5.9	2.4	4.1	2.1	.0	.7
5.3	2.0	1.9	3.0	10.1	10.7	5.4	2.4	.0	.3
.3	.1	.0	.9	2.5	4.7	2.2	.5	.0	.2
.0	.0	.0	.0	.1	.3	.1	.0	.0	.0
19.8	11.0	3.3	6.7	19.5	19.1	12.7	6.6	.0	1.2

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	79	70	66	60	53	50	50	59.7	345
06&09	78	70	67	60	53	50	49	59.9	461
12&15	75	68	65	59	53	49	46	58.8	338
18&21	81	67	65	57	51	49	48	57.8	489
TOT	81	69	66	59	52	50	46	59.0	1633

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	16.4	20.5	31.1	24.6	7.4	73	122
06&09	.0	11.8	23.6	31.7	22.4	10.6	74	161
12&15	.0	7.2	20.3	24.8	35.3	12.4	77	153
18&21	.0	9.6	18.6	25.1	28.7	18.0	77	167
TOT	0	66	125	169	168	75	75	603

SEPTEMBER

PERIOD: (PRIMARY) 1895-1971
(OVER-ALL) 1859-1971

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	.1	.0	.1	.0	.0	.1	3	.0	.3
9/10	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	3	.0	.3
7/8	.0	.0	.0	.3	.6	.3	.4	.1	.0	.0	17	.0	1.8
6	.0	.0	.1	.2	.1	.2	.1	.0	.0	.0	7	.0	.7
5	.0	.0	.0	.5	.6	.9	.2	.0	.0	.0	22	.0	2.3
4	.0	.0	.0	1.0	2.3	1.0	.0	.0	.0	.0	42	.2	4.1
3	.0	.0	.1	.9	1.8	.9	.1	.0	.0	.0	37	.0	3.8
2	.0	.1	.5	2.4	4.0	1.9	.0	.0	.0	.0	86	.0	8.9
1	.0	.0	1.1	2.8	4.0	1.0	.1	.0	.0	.0	88	.8	8.3
0	.0	.1	1.2	5.5	5.3	1.0	.1	.0	.0	.0	128	.8	12.4
-1	.0	.0	2.1	4.1	2.0	.3	.0	.0	.0	.0	82	.2	8.3
-2	.0	.4	2.7	4.4	3.2	.2	.0	.0	.0	.0	105	.3	10.6
-3	.0	.2	2.5	3.9	1.2	.1	.0	.0	.0	.0	77	.2	7.8
-4	.0	.5	2.5	3.9	1.2	.0	.0	.0	.0	.0	79	.0	8.2
-5	.1	.9	3.1	3.3	.2	.0	.0	.0	.0	.0	74	.0	7.7
-6	.0	.6	2.3	.8	.3	.0	.0	.0	.0	.0	39	.1	3.9
-7/-8	.1	.7	3.1	1.2	.3	.0	.0	.0	.0	.0	53	.1	5.4
-9/-10	.0	.3	1.0	.3	.0	.0	.0	.0	.0	.0	16	.0	1.7
-11/-13	.0	.2	.2	.1	.1	.0	.0	.0	.0	.0	6	.0	.6
TOTAL	2		218		266		11		0			27	937
		40		346		79		1		1	964		
PCT	.2	4.1	22.6	35.9	27.6	8.2	1.1	.1	.0	.1	100.0	2.8	97.2

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	2.6	.9	.0	.0	.0	3.5
3-4	.0	1.9	4.7	.0	.0	.0	6.5
5-6	.0	.3	2.8	.2	.0	.0	3.4
7	.0	.0	.9	.6	.0	.0	1.5
8-9	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	5.4	9.9	.9	.0	.0	16.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.3	.8	2.0	.0	.0	.0	3.1
3-4	.0	.6	3.7	.3	.0	.0	4.6
5-6	.0	.0	2.6	.1	.0	.0	2.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.3	.0	.0	.0	.3
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
TOT PCT	.3	1.7	8.6	.4	.0	.0	11.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.3	.6	.0	.0	.0	.0	1.0
3-4	.0	.8	.0	.0	.0	.0	.8
5-6	.0	.3	.0	.0	.0	.0	.3
7	.0	.3	.0	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.3	2.1	.0	.0	.0	.0	2.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	1.9	.0	.0	.0	.0	1.9
3-4	.0	.1	2.1	.0	.0	.0	2.2
5-6	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	2.3	3.2	.0	.0	.0	5.5

PERIOD: (OVER-ALL) 1963-1971

SEPTEMBER

TABLE 18 (CONT)

AREA 0008 CAPE HOWE NZ
36.0S 150.8E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.5	1.2	.0	.0	.0	4.7	.0	2.1	2.3	.0	.0	.0	4.4
3-4	.0	2.3	4.8	.6	.0	.0	7.7	.0	1.6	5.8	.5	.0	.0	7.9
5-6	.0	.3	2.9	2.0	.0	.0	5.2	.0	.0	5.2	.6	.0	.0	5.8
7	.0	.3	.8	1.4	.0	.0	2.5	.0	.0	1.1	.2	.0	.0	1.4
8-9	.0	.0	.6	.3	.0	.0	1.0	.0	.0	.3	.1	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.3	.0	.3	.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
TOT PCT	.0	7.4	10.3	4.3	.3	.0	22.3	.0	3.7	15.2	1.8	.3	.0	21.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	.0	.0	.0	.0	.0	.3	.0	.6	.0	.0	.0	.0	.6	
1-2	.0	3.6	1.0	.0	.0	.0	4.6	.0	1.0	.0	.0	.0	.0	1.0	
3-4	.0	1.1	1.5	.6	.0	.0	3.2	.0	1.0	1.0	.3	.0	.0	2.3	
5-6	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	1.0	.0	.0	.0	1.0	
7	.0	.0	.2	.3	.0	.0	.6	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.6	1.1	.0	.0	1.7	.0	.0	.1	.1	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.3	.5	.0	.0	.8	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.3	.0	.2	.0	.0	.6	.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	
TOT PCT	.3	5.1	5.7	2.7	.0	.0	13.9	.0	2.7	2.2	.6	.0	.0	5.4	97.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	2.9	.0	.0	.0	.0	5.5	
1-2	.6	16.1	7.4	.0	.0	.0	24.2	
3-4	.0	9.4	23.5	2.3	.0	.0	35.2	
5-6	.0	1.0	17.7	2.9	.0	.0	21.6	
7	.0	.6	3.2	2.6	.0	.0	6.5	
8-9	.0	.0	2.3	1.6	.0	.0	3.9	
10-11	.0	.0	.3	.0	.0	.0	.3	
12	.0	.0	.3	.6	.3	.0	1.3	
13-16	.0	.3	.0	.6	.0	.0	1.0	
17-19	.0	.0	.3	.0	.0	.0	.3	
20-22	.0	.0	.0	.0	.3	.0	.3	
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	
								310
TOT PCT	3.2	30.3	55.2	10.6	.6	.0	100.0	

PERIOD: (OVER-ALL) 1949-1971

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	8.0	11.1	8.8	2.7	1.3	.0	.5	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	128	4
6-7	.0	.8	8.2	10.1	8.5	3.4	1.9	1.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	133	6
8-9	.0	.0	.5	3.7	5.0	2.9	1.1	1.9	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	8
10-11	.0	.3	.5	.8	1.1	1.1	1.1	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	7
12-13	.0	.0	.3	.5	.8	.0	.5	.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	11	9
>13	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	2	14
INDET	1.9	.0	.8	1.1	.8	.3	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	20	5
TOTAL	11	34	81	94	71	35	17	17	12	2	3	0	0	0	0	0	0	0	0	377	6
PCT	2.9	9.0	21.5	24.9	18.8	9.3	4.5	4.5	3.2	.5	.8	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1859-1972

AREA 0008 CAPE HOWE NE
36.0S 150.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.2	.8	1.9	.0	.0	.0	.0	5.9	.0	3.6	4.9	.0	5.2	.0	81.4
NE	3.6	1.9	1.7	.0	.0	.0	.0	7.1	.0	3.0	5.6	.0	4.5	.0	80.6
E	.0	2.9	.0	.0	.0	.0	.0	2.9	.0	.0	1.9	.0	7.7	.0	87.4
SE	7.2	8.5	.3	.0	.0	.0	.0	16.1	2.6	2.6	6.6	.0	.0	.0	72.8
S	5.7	6.0	3.2	.0	.0	.0	.0	14.9	1.4	1.9	2.8	.0	2.2	.0	77.5
SW	6.0	2.1	2.7	.0	.0	.0	.0	10.8	3.7	3.9	2.3	.0	2.9	.0	78.8
W	6.7	2.9	.0	.0	.0	.0	.0	9.7	6.2	8.2	.6	.0	3.5	.0	74.2
NW	.0	1.8	1.8	.0	.0	.0	.0	3.6	.5	7.7	10.9	.0	1.8	.0	75.5
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	25.0	.0	.0	.0	.0	75.0
TOT PCT	4.4	3.2	1.8	.0	.0	.0	.0	9.4	1.6	3.9	4.1	.0	3.4	.0	78.6
TOT OBS:	932														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.8	.6	.6	.0	.0	.0	.0	3.9	2.2	.6	4.5	.0	3.4	.0	86.0
06&09	4.6	3.2	1.8	.0	.0	.0	.0	9.6	.7	1.4	3.9	.0	6.4	.0	78.6
12&15	6.6	4.4	2.2	.0	.0	.0	.0	13.2	.4	7.0	1.3	.0	1.3	.0	78.4
18&21	3.2	3.9	2.1	.0	.0	.0	.0	9.2	2.8	5.7	6.4	.0	1.8	.0	75.3
TOT PCT	4.3	3.2	1.8	.0	.0	.0	.0	9.3	1.5	3.8	4.1	.0	3.3	.0	78.9
TOT OBS:	969														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	9.1	7.9	2.3	.2	.0		20.7	12.1	21.5	24.3	13.9	19.8	22.6	21.2	22.2	22.6
NE	.8	6.2	5.2	1.0	.1	.0		13.3	11.4	13.8	12.9	21.5	17.1	15.6	13.2	5.2	8.7
E	.6	3.4	1.7	.2	.0	.0		6.0	9.4	6.8	7.5	8.2	6.3	4.8	5.6	3.2	5.2
SE	.5	4.7	3.1	.6	.2	.1		9.0	11.4	6.1	7.1	11.4	15.5	5.6	11.1	7.9	3.2
S	.7	7.1	7.9	3.3	.6	.2		19.9	14.8	15.2	20.2	21.6	24.5	21.1	17.7	19.6	16.0
SW	.6	3.9	5.5	3.1	1.0	.1		14.1	16.8	18.2	13.7	14.0	8.7	13.4	11.8	15.8	18.2
W	.6	2.9	3.0	1.5	.3	.0		8.3	14.5	14.0	4.6	4.6	4.5	9.4	9.1	12.8	10.6
NW	.8	3.2	1.9	.5	.1	.0		6.5	10.6	3.5	7.2	3.7	1.7	5.4	8.2	8.8	12.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2							2.2	.0	.9	2.4	1.1	2.0	2.0	2.1	4.4	1.6
TOT OBS	133	669	598	207	39	5	1651		12.8	107	232	276	202	147	189	294	184
TOT PCT	8.1	40.5	36.2	12.5	2.4	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.3	11.7	4.0	.7	.0		20.7	12.1	23.5	16.4	21.8	22.3
NE	3.9	6.2	3.0	.3	.0		13.3	11.4	13.2	19.6	14.3	6.5
E	2.2	3.0	.8	.0	.0		6.0	9.4	7.3	7.4	5.2	4.0
SE	2.7	4.5	1.5	.2	.1		9.0	11.4	6.8	13.1	8.7	6.9
S	3.9	8.5	5.4	1.6	.4		19.9	14.8	16.7	22.8	19.2	18.3
SW	1.9	5.8	4.2	1.9	.2		14.1	16.8	15.0	11.8	12.5	16.7
W	1.5	3.7	2.1	.9	.0		8.3	14.5	7.4	4.6	9.2	12.0
NW	2.4	2.9	1.0	.2	.0		6.5	10.6	6.1	2.9	7.0	10.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.2						2.2	.0	1.9	1.5	2.1	3.3
TOT OBS	416	764	364	95	12	1651		12.8	359	478	336	478
TOT PCT	25.2	46.3	22.0	5.8	.7		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.9	6.7	37.6	37.6	13.9	2.2	.0	12.7	100.0	359
06&09	1.5	4.2	38.3	40.2	12.6	3.1	.2	13.5	100.0	478
12&15	2.1	4.5	36.6	41.4	13.7	1.5	.3	13.3	100.0	336
18&21	3.3	7.7	47.7	27.6	10.7	2.3	.6	11.7	100.0	478
TOT	37	96	669	598	207	39	5	12.8		1651
PCT	2.2	5.8	40.5	36.2	12.5	2.4	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.2	2.9	5.0	3.3		3.9
NE	5.9	1.4	4.2	3.4		4.3
E	.8	1.3	1.8	1.1		5.0
SE	1.5	.8	1.9	2.4		5.2
S	5.1	4.8	6.3	5.0		4.8
SW	6.1	2.3	5.1	3.7		4.3
W	4.1	2.0	3.0	1.3		3.8
NW	1.6	.9	1.2	.6		4.1
VAR	.0	.0	.0	.0		.0
CALM	.2	.0	.2	.5		5.7
TOT OBS	144	70	123	91	428	4.4
TOT PCT	33.6	16.4	28.7	21.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.2	1.6	2.1	1.1	1.0	.0	.0	.2	13.3	
NE	.0	.5	.2	.7	1.9	.1	1.5	.0	.0	.2	9.8	
E	.0	.0	.0	.5	.6	.5	.4	.0	.0	.0	3.2	
SE	.0	.0	.0	1.1	1.5	.5	.4	.0	.0	.4	2.9	
S	.0	.0	.4	1.9	2.7	1.5	1.3	.0	.0	.6	12.5	
SW	.0	.0	.1	1.2	2.0	2.9	1.0	.0	.0	.0	10.0	
W	.0	.0	.0	.7	1.9	.2	.2	.0	.2	.0	7.1	
NW	.0	.0	.0	.2	.4	.0	.1	.0	.0	.3	3.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.2	
TOT OBS	0	2	4	34	58	31	25	0	1	7	266	428
TOT PCT	.0	.5	.9	7.9	13.6	7.2	5.8	.0	.2	1.6	62.1	100.0

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 >500YD	= OR >0
= OR >6500	1.1	1.8	1.8	1.8	1.8	1.8	1.8	1.8
= OR >5000	1.1	1.8	1.8	1.8	1.8	1.8	1.8	1.8
= OR >3500	5.7	7.6	7.8	7.8	7.8	7.8	7.8	7.8
= OR >2000	11.4	14.9	15.1	15.1	15.1	15.1	15.1	15.1
= OR >1000	21.3	27.5	28.4	28.4	28.4	28.4	28.4	28.4
= OR >600	24.9	35.0	36.2	36.4	36.4	36.4	36.4	36.4
= OR >300	25.4	35.9	37.1	37.3	37.3	37.3	37.3	37.3
= OR >150	25.9	36.4	37.5	37.8	37.8	37.8	37.8	37.8
= OR > 0	25.9	36.4	37.5	37.8	37.8	37.8	37.8	37.8
TOTAL	113	159	164	165	165	165	165	165

TOTAL NUMBER OF OBS: 437 PCT FREQ NH <5/8: 62.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
12.8	18.1	14.6	9.1	7.1	7.3	5.3	10.3	15.4	.0	507

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.2	.1	.0	.1	.1	.0	.2	.0	.0	.6	
	TOT %	.1	.2	.1	.0	.1	.1	.0	.2	.0	.0	.6	
1/2<1	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.5	.3	.0	.4	.3	.2	.1	.2	.0	.0	1.9	
	TOT %	.5	.3	.0	.5	.4	.2	.1	.2	.0	.0	2.1	
1<2	PCP	.0	.1	.0	.0	.1	.2	.0	.0	.0	.0	.4	
	NO PCP	.1	.2	.1	.2	.2	.2	.2	.0	.0	.0	1.2	
	TOT %	.1	.3	.1	.2	.3	.4	.2	.0	.0	.0	1.6	
2<5	PCP	.2	.4	.0	.0	.4	.2	.1	.1	.0	.0	1.4	
	NO PCP	.4	.3	.2	.0	.0	.2	.2	.3	.0	.0	1.5	
	TOT %	.6	.7	.2	.0	.4	.4	.3	.4	.0	.0	2.9	
5<10	PCP	.8	.4	.2	1.0	2.0	1.0	.5	.1	.0	.0	5.9	
	NO PCP	6.5	4.4	1.3	3.0	6.8	3.8	2.3	2.3	.0	.6	31.0	
	TOT %	7.3	4.8	1.5	4.0	8.8	4.8	2.7	2.4	.0	.6	36.9	
10+	PCP	.2	.1	.0	.2	.5	.1	.3	.0	.0	.0	1.5	
	NO PCP	12.0	8.0	3.7	3.4	10.4	7.9	5.6	2.6	.0	.6	54.3	
	TOT %	12.3	8.1	3.7	3.6	10.9	8.0	5.9	2.6	.0	.6	55.8	
	TOT OBS												932
	TOT PCT	20.8	14.4	5.6	8.2	20.9	13.9	9.1	5.9	.0	1.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	4-10	.1	.1	*	.0	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	*	*	.0	.1	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	*	.0	*	*	.0	.2	.0	.0	.6	
1/2<1	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.0	.2	.2	.1	.0	.2	.0		1.0	
	11-21	.1	.0	.0	.2	.2	.1	*	.0	.0		.6	
	22+	.2	.1	.0	.0	.0	.0	.0	*	.0		.4	
	TOT %	.5	.3	.0	.4	.4	.2	*	.2	.0	.0	2.1	
1<2	0-3	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.3	
	4-10	.1	.0	.0	.1	.1	.0	.0	.0	.0		.3	
	11-21	.1	.3	.0	*	.3	.2	.1	.0	.0		1.0	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1	
	TOT %	.2	.3	.1	.2	.4	.3	.2	.0	.0	.0	1.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.3	*	.0	.0	.1	.1	.1	.0		.9	
	11-21	.4	.1	.1	.0	.1	.2	.1	.2	.0		1.2	
	22+	.1	.3	.0	.0	.3	*	*	*	.0		.9	
	TOT %	.8	.7	.1	.0	.4	.3	.2	.4	.0	.0	3.0	
5<10	0-3	.5	.3	.1	.3	.2	*	*	.5	.0	.6	2.6	
	4-10	2.5	2.0	.7	1.6	2.9	1.2	.9	.6	.0		12.4	
	11-21	2.8	1.8	.4	1.3	3.9	2.0	.6	.8	.0		13.6	
	22+	1.2	.5	.1	.4	1.3	1.4	.7	.3	.0		5.9	
	TOT %	6.9	4.6	1.4	3.7	8.2	4.6	2.3	2.1	.0	.6	34.6	
10+	0-3	.5	.4	.4	.2	.5	.2	.2	.2	.0	1.2	3.7	
	4-10	5.0	4.3	2.3	2.4	3.7	2.2	1.5	1.4	.0		22.8	
	11-21	5.2	3.5	1.0	1.3	4.6	4.0	2.8	1.0	.0		23.4	
	22+	1.6	.4	.1	.2	2.1	2.1	1.3	.3	.0		8.2	
	TOT %	12.2	8.5	3.8	4.0	10.9	8.6	5.9	3.0	.0	1.2	58.1	
	TOT OBS												1085
	TOT PCT	20.6	14.6	5.5	8.4	20.4	14.1	8.6	5.9	.0	1.8	100.0	

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PERIOD: (PRIMARY) 1908-1972
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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
00&03	.0	.0	1.0	4.9	15.7	10.8	7.8	.0	.0	2.0	42.2	57.8	102
06&09	.0	.7	.7	4.3	8.0	5.1	3.6	.0	.0	2.2	24.6	75.4	138
12&15	.0	.0	1.5	12.8	13.5	4.5	5.3	.0	.8	1.5	39.8	60.2	133
18&21	.0	1.0	.0	6.7	12.4	7.6	5.7	.0	.0	.0	33.3	66.7	105
TOT	0	2	4	35	58	32	26	0	1	7	165	313	478
PCT	.0	.4	.8	7.3	12.1	6.7	5.4	.0	.2	1.5	34.5	65.5	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
00&03	1.5	1.5	1.0	3.6	23.7	68.6	194
06&09	.3	1.5	2.4	4.5	38.8	52.4	330
12&15	.0	1.1	.8	1.9	35.5	60.8	265
18&21	1.2	3.6	1.8	2.1	38.1	53.2	333
TOT	8	23	18	34	395	644	1122
PCT	.7	2.0	1.6	3.0	35.2	57.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.0	7.9	35.6	56.4	101
06&09	.0	1.8	10.5	21.1	68.4	114
12&15	.0	1.6	16.4	25.8	57.8	128
18&21	.0	2.1	9.6	28.7	61.7	94
TOT	0	7	50	120	267	437
PCT	.0	1.6	11.4	27.5	61.1	100.0

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	.2	.6	1.3	.0	.8	18	2.8
65/69	.0	.0	.0	.5	2.0	3.1	6.6	4.6	107	16.8
60/64	.0	.0	.2	2.4	6.8	9.6	13.3	9.9	268	42.1
55/59	.0	.0	.5	2.8	7.4	11.1	7.7	2.5	204	32.0
50/54	.0	.0	.0	.3	1.3	1.3	2.2	1.1	39	6.1
45/49	.0	.0	.0	.0	.0	.0	.2	.0	1	.2
TOTAL	0	0	4	39	115	168	191	120	637	100.0
PCT	.0	.0	.6	6.1	18.1	26.4	30.0	18.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	1.0	1.0	.2	.0	.0	.0	.2	.3	.0	.2
	7.4	4.9	.7	*	1.0	.4	1.1	1.0	.0	.2
	10.9	7.8	2.6	5.1	6.2	3.6	2.8	2.6	.0	.5
	1.1	2.0	2.2	1.5	9.4	8.6	4.5	1.8	.0	.9
	.2	.0	.0	.0	2.6	2.1	.9	.3	.0	.2
	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
	20.5	15.7	5.8	6.6	19.3	14.7	9.4	6.0	.0	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	79	73	70	62	55	53	50	62.1	334
06&09	77	73	68	61	55	53	50	61.5	470
12&15	70	68	66	60	54	50	50	60.3	347
18&21	72	70	66	59	54	51	49	59.6	490
TOT	79	72	68	61	54	51	49	60.8	1641

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	11.2	28.8	21.6	23.2	15.2	75	125
06&09	.0	7.2	21.0	30.4	28.2	13.3	77	181
12&15	.0	5.2	12.6	22.4	37.4	22.4	80	174
18&21	.0	4.5	13.4	29.1	29.1	24.0	80	179
TOT	0	44	120	173	197	125	78	659

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) 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 FOG	WO FOG
14/16	.0	.0	.0	.0	.2	.0	.0	2	.0	.2
11/13	.0	.0	.0	.2	.0	.2	.0	4	.1	.4
9/10	.0	.0	.0	.0	.4	.4	.2	8	.1	.8
7/8	.0	.0	.0	.4	.4	.5	.0	10	.1	1.1
6	.0	.0	.0	.2	.5	.1	.1	8	.0	.9
5	.0	.1	.1	.8	.6	.1	.1	16	.0	1.9
4	.0	.1	.5	2.3	2.0	.4	.1	45	.2	5.1
3	.0	.0	.9	1.7	1.3	.5	.1	38	.1	4.4
2	.0	.1	1.1	3.7	3.4	.4	.0	73	.2	8.4
1	.0	.1	2.3	5.3	2.7	.0	.0	88	.4	10.1
0	.1	.8	4.4	6.0	2.6	.1	.0	119	1.5	12.6
-1	.0	.9	5.1	4.1	.4	.2	.0	91	.4	10.4
-2	.0	1.0	5.6	4.0	.5	.1	.0	102	.8	11.3
-3	.2	1.9	4.3	1.7	.2	.0	.0	70	.0	8.3
-4	.0	1.5	3.2	2.1	.0	.0	.0	58	.1	6.8
-5	.4	1.5	3.0	.7	.0	.0	.0	47	.0	5.6
-6	.4	1.3	1.4	.5	.0	.0	.0	30	.0	3.6
-7/-8	.2	.9	.9	.1	.0	.0	.0	19	.0	2.3
-9/-10	.5	.7	.5	.1	.0	.0	.0	15	.0	1.8
-14/-16	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	15		280		128		6		35	809
		103		287		25		844		
PCT	1.8	12.2	33.2	34.0	15.2	3.0	.7	100.0	4.1	95.9

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.2	4.4	.9	.0	.0	.0	5.6
3-4	.0	2.1	2.8	.0	.0	.0	4.9
5-6	.0	.0	2.8	1.1	.0	.0	3.9
7	.0	.0	.2	.3	.0	.0	.6
8-9	.0	.0	.2	.9	.0	.0	1.1
10-11	.0	.0	.0	.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
TOT PCT	.2	7.1	6.9	2.9	.0	.0	17.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.7
1-2	.1	2.6	.7	.0	.0	.0	3.4
3-4	.0	.8	2.6	.0	.0	.0	3.4
5-6	.0	.0	2.1	.2	.0	.0	2.3
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.7	.1	.0	.0	.8
10-11	.0	.0	.0	.8	.0	.0	.8
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
TOT PCT	.4	3.8	6.6	1.1	.0	.0	11.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	.3	.0	.0	.0	.0	1.3
1-2	.0	2.2	.3	.0	.0	.0	2.5
3-4	.0	.6	.6	.0	.0	.0	1.1
5-6	.0	.3	.5	.0	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.0	3.4	1.6	.0	.0	.0	6.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.6	.0	.0	.0	.0	1.6
3-4	.0	1.7	2.5	.0	.0	.0	4.2
5-6	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	.3	.3	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	3.3	3.8	.3	.0	.0	7.4

OCTOBER

PERIOD: (OVER-ALL) 1963-1972

AREA 0008 CAPE HOWE NE
36.0S 150.7E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.0	.0	.0	.0	.0	2.0	.0	.3	.3	.0	.0	.0	.7
1-2	.0	3.1	.9	.0	.0	.0	4.0	.1	3.0	1.1	.0	.0	.0	4.2
3-4	.0	2.0	4.4	.3	.0	.0	6.8	.0	1.5	4.1	.7	.0	.0	6.3
5-6	.0	.0	2.5	1.6	.0	.0	4.0	.0	.0	1.8	1.8	.0	.0	3.6
7	.0	.0	.9	.5	.0	.0	1.4	.0	.0	1.2	.6	.0	.0	1.8
8-9	.0	.0	1.2	1.3	.0	.0	2.5	.0	.0	1.1	.3	.0	.0	1.4
10-11	.0	.0	.3	.2	.0	.0	.6	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.2	.2	.0	.5	.0	.0	.0	.1	.1	.0	.2
13-16	.0	.0	.0	.3	.3	.0	.7	.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
TOT PCT	1.0	6.1	10.2	4.5	.6	.0	22.4	.1	4.8	9.6	3.9	.1	.0	18.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
1-2	.2	1.3	.3	.0	.0	.0	1.9	.0	1.4	.0	.0	.0	.0	1.4	
3-4	.0	1.3	1.6	.6	.0	.0	3.5	.0	1.1	1.0	.0	.0	.0	2.0	
5-6	.0	.0	1.6	1.2	.0	.0	2.9	.0	.0	.2	.0	.0	.0	.2	
7	.0	.0	.5	.9	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	
10-11	.0	.0	.0	.2	.3	.0	.6	.0	.0	.3	.1	.0	.0	.4	
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	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1	
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	
TOT PCT	.2	2.6	4.3	3.2	.3	.0	10.7	.0	2.9	1.6	.2	.0	.0	4.7	98.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.9	2.9	.3	[illegible]	.0	.0	7.2	
1-2	.7	19.5	4.2	[illegible]	.0	.0	24.4	
3-4	.0	11.1	19.5	1.6	.0	.0	32.2	
5-6	.0	.3	12.4	5.9	.0	.0	18.6	
7	.0	.0	3.6	2.6	.0	.0	6.2	
8-9	.0	.0	3.9	2.6	.0	.0	6.5	
10-11	.0	.0	.7	2.3	.3	.0	3.3	
12	.0	.0	.0	.3	.3	.0	.7	
13-16	.0	.0	.0	.3	.3	.0	.7	
17-19	.0	.0	.0	.3	.0	.0	.3	
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	
TOT PCT	4.6	33.9	44.6	16.0	1.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1972

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	7.2	13.6	7.2	2.8	1.0	1.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	132	4
6-7	.0	1.3	7.9	11.3	6.1	6.1	2.3	1.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	144	6
8-9	.0	.5	2.3	4.1	2.8	3.3	2.6	2.0	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	7
10-11	.0	.0	.8	.0	.8	1.0	.3	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	8
12-13	.0	.0	.0	.3	.3	.3	.3	.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	10
>13	.0	.0	.0	.0	.3	.3	.0	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	11
INDET	.8	1.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	2
TOTAL	5	39	99	92	51	47	25	20	10	3	0	0	0	0	0	0	0	0	0	391	6
PCT	1.3	10.0	25.3	23.5	13.0	12.0	6.4	5.1	2.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1899-1971
(OVER-ALL) 1869-1971

AREA 0008 CAPE HOWE NE
36.05 150.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	2.5	.8	1.3	.0	.0	.0	.0	4.6	.0	6.9	6.2	.0	4.5	.0	79.1
NE	2.1	2.9	1.3	.0	.0	.0	.0	6.2	.0	2.5	9.7	.0	5.2	.0	76.6
E	3.2	5.7	1.5	.0	.0	.0	.0	9.4	1.0	3.0	6.0	.0	.5	.0	80.1
SE	8.0	2.6	3.1	.0	.0	.0	.0	13.7	.9	2.2	3.0	.0	1.1	.2	79.6
S	3.7	4.5	2.0	.0	.0	.0	.0	10.2	1.1	1.7	3.2	.0	2.0	.3	81.9
SW	4.0	5.9	2.2	.0	.0	.0	.0	12.0	4.1	2.3	1.4	.0	1.9	.0	78.8
W	5.4	3.0	.0	.0	.0	.0	.0	8.4	1.5	3.4	3.9	.0	3.4	.0	79.3
NW	6.6	2.0	6.1	.0	.0	.0	.0	14.8	2.0	6.1	6.1	.0	.5	.0	74.5
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	10.0	.0	.0	.0	90.0
TOT PCT	4.0	3.5	2.0	.0	.0	.0	.0	9.4	1.3	3.2	4.8	.0	2.6	.1	79.4
TOT OBS:	1109														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00&03	4.0	4.9	.4	.0	.0	.0	.0	9.4	2.7	.4	5.4	.0	3.6	.0	79.0
06&09	5.7	1.8	1.8	.0	.0	.0	.0	9.0	.6	3.6	5.7	.0	2.7	.0	79.5
12&15	3.1	3.1	2.3	.0	.0	.0	.0	8.5	1.2	6.6	2.3	.0	2.7	.4	79.2
18&21	3.4	5.6	3.1	.0	.0	.0	.0	12.0	.9	3.1	6.2	.0	1.5	.0	77.2
TOT PCT	4.1	3.8	2.0	.0	.0	.0	.0	9.8	1.2	3.5	5.0	.0	2.5	.1	78.7
TOT OBS:	1139														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	7.4	6.3	2.3	.2	.0		17.1	12.7	16.8	20.1	12.1	20.0	12.5	21.5	17.2	14.8
NE	1.0	7.3	5.7	.9	.1	.0		15.0	11.2	8.4	17.0	18.0	17.2	15.5	15.0	12.2	12.2
E	.6	4.9	2.5	.3	*	.0		8.3	9.7	12.8	7.1	9.6	9.5	10.9	7.2	7.7	4.7
SE	.9	6.1	4.5	.8	.1	.0		12.3	11.1	7.3	11.0	19.3	18.1	12.1	10.6	6.8	10.7
S	1.1	7.1	8.5	3.7	.5	.1		21.0	14.5	16.2	19.2	23.8	16.2	26.4	18.2	22.1	25.1
SW	.5	3.8	6.8	3.8	.9	*		15.8	17.4	22.8	14.0	10.8	13.6	15.4	16.1	18.3	20.9
W	.3	1.7	1.6	.9	.3	.0		4.7	15.1	7.1	5.0	3.7	2.3	2.3	5.1	7.4	4.6
NW	.4	1.8	1.6	.4	.1	.0		4.3	11.8	7.7	5.0	2.4	2.6	2.7	4.4	6.0	4.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0	.9	1.6	.3	.5	2.1	1.9	2.4	2.0
TOT OBS	128	715	670	233	37	2	1785		13.1	113	318	294	215	140	216	293	196
TOT PCT	7.2	40.1	37.5	13.1	2.1	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.1	8.0	4.0	.9	.1		17.1	12.7	19.3	15.4	18.0	16.2
NE	3.9	7.9	2.8	.5	.0		15.0	11.2	14.7	17.7	15.2	12.2
E	2.4	5.1	.8	.1	.0		8.3	9.7	8.6	9.6	8.6	6.5
SE	3.0	7.1	2.0	.1	.1		12.3	11.1	10.0	18.8	11.2	8.4
S	3.2	10.2	5.8	1.5	.2		21.0	14.5	18.4	20.6	21.4	23.3
SW	2.1	5.0	6.1	2.4	.3		15.8	17.4	16.3	12.0	15.8	19.3
W	1.1	1.7	1.3	.4	.2		4.7	15.1	5.6	3.1	4.0	6.3
NW	1.2	2.1	.9	.2	.0		4.3	11.8	5.7	2.5	3.7	5.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	1.4	.4	2.0	2.2
TOT OBS	400	841	422	108	14	1785		13.1	431	509	356	489
TOT PCT	22.4	47.1	23.6	6.1	.8		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.4	6.3	37.1	39.7	13.2	2.1	.2	13.3	100.0	431
06&09	.4	5.1	36.3	40.1	15.3	2.6	.2	14.0	100.0	509
12&15	2.0	5.1	42.7	35.7	13.5	1.1	.0	12.7	100.0	356
18&21	2.2	6.3	44.6	34.4	10.2	2.2	.0	12.1	100.0	489
TOT	26	102	715	670	233	37	2	13.1		1785
PCT	1.5	5.7	40.1	37.5	13.1	2.1	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCO	TOTAL OBS	MEAN CLOUD COVER
N	5.6	1.4	3.3	3.3		4.1
NE	3.9	1.6	2.9	3.9		4.8
E	2.8	.9	2.7	3.8		5.1
SE	1.5	2.6	4.4	4.4		5.7
S	5.5	4.1	7.2	5.5		4.8
SW	5.3	3.2	6.4	2.8		4.4
W	1.7	.8	1.9	.8		4.4
NW	1.5	.3	1.9	1.0		4.7
VAR	.0	.0	.0	.0		.0
CALM	.7	.0	.0	.2		3.0
TOT OBS	126	66	135	113	440	4.7
TOT PCT	28.6	15.0	30.7	25.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.4	1.0	.4	1.5	.5	.2	.0	.2	9.3	
NE	.0	.0	.1	1.3	1.8	.6	.7	.2	.0	.2	7.6	
E	.2	.2	.2	1.1	2.2	1.1	.2	.0	.0	.0	5.0	
SE	.3	.1	.3	1.1	2.5	.8	.2	.3	.3	.5	6.6	
S	.2	.0	.2	1.9	5.4	1.0	1.0	.1	.2	.0	12.4	
SW	.0	.1	.0	1.5	4.0	1.8	.0	.0	.0	.0	10.4	
W	.0	.2	.0	.5	.7	.8	.0	.2	.0	.0	2.9	
NW	.0	.0	.0	.5	.8	.8	.0	.1	.0	.0	2.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.7	
TOT OBS	3	2	5	39	79	37	11	5	2	4	253	440
TOT PCT	.7	.5	1.1	8.9	18.0	8.4	2.5	1.1	.5	.9	57.5	100.0

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 >50YD	= OR >0
= OR >6500	.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >5000	2.2	2.7	2.7	2.7	2.7	2.7	2.7	2.7
= OR >3500	4.2	5.1	5.1	5.4	5.4	5.4	5.4	5.4
= OR >2000	11.2	13.8	13.8	14.1	14.1	14.1	14.1	14.1
= OR >1000	24.6	30.6	31.5	31.7	31.7	31.7	31.7	31.7
= OR >600	28.8	37.9	40.2	40.4	40.4	40.4	40.4	40.4
= OR >300	29.2	38.8	41.3	41.5	41.5	41.5	41.5	41.5
= OR >150	29.2	38.8	41.7	42.0	42.0	42.0	42.0	42.0
= OR > 0	29.7	39.3	42.4	42.6	42.6	42.6	42.6	42.6
TOTAL	133	176	190	191	191	191	191	191

TOTAL NUMBER OF OBS: 448

PCT FREQ NH <5/8: 57.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCO	TOTAL OBS
11.9	14.6	15.8	9.6	6.9	6.6	8.3	9.8	16.0	.4	519

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.3	
	NO PCP	.8	.8	.5	.4	.5	.1	.1	.3	.0	.0	3.5	
	TOT %	.8	.9	.5	.4	.5	.2	.1	.4	.0	.0	3.8	
1<2	PCP	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	NO PCP	.4	.5	*	*	.2	.1	.1	*	.0	.0	1.4	
	TOT %	.4	.5	*	*	.2	.2	.1	*	.0	.0	1.5	
2<5	PCP	.1	.1	.2	.4	.1	.3	*	.0	.0	.0	1.2	
	NO PCP	.6	.1	.0	.0	.2	.2	.2	.1	.0	.1	1.4	
	TOT %	.7	.2	.2	.4	.2	.5	.2	.1	.0	.1	2.6	
5<10	PCP	.6	.4	.5	1.2	1.5	1.1	.3	.4	.0	.0	6.0	
	NO PCP	7.6	5.5	2.7	4.7	7.5	6.1	1.8	1.7	.0	.2	37.8	
	TOT %	8.1	5.9	3.2	5.9	9.0	7.2	2.1	2.1	.0	.2	43.8	
10+	PCP	.1	.2	.2	.1	.6	.4	.0	.2	.0	.0	1.8	
	NO PCP	6.8	6.4	4.9	5.4	10.6	7.9	2.0	1.7	.0	.6	46.3	
	TOT %	6.9	6.6	5.1	5.5	11.1	8.3	2.0	1.9	.0	.6	48.1	
	TOT OBS												1108
	TOT PCT	17.0	14.1	9.1	12.2	21.1	16.5	4.6	4.4	.0	.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1	
	TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.2	
	4-10	.2	.6	.2	.0	.2	.1	.1	.0	.0		1.4	
	11-21	.5	.2	.2	.2	.1	.1	.0	.3	.0		1.6	
	22+	.1	.0	.0	.0	*	*	.0	.0	.0		.2	
	TOT %	.8	.8	.5	.3	.4	.2	.1	.3	.0	.0	3.4	
1<2	0-3	.0	.1	.0	.0	.1	*	.0	.0	.0	.0	.2	
	4-10	.2	.2	*	*	.0	.0	.1	.0	.0		.6	
	11-21	.1	.2	.0	*	.1	*	.0	*	.0		.5	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1	
	TOT %	.4	.5	*	.1	.2	.2	.1	*	.0	.0	1.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.3	.0	.1	*	.3	.3	.0	.0		.9	
	11-21	.3	.0	.1	.2	.1	.3	.0	.0	.0		.9	
	22+	.3	.1	.1	.2	.2	.1	.0	.1	.0		1.0	
	TOT %	.7	.3	.1	.4	.4	.6	.3	.1	.0	.1	3.0	
5<10	0-3	.4	.4	.3	.4	.1	.3	.1	.2	.0	.2	2.[illegible]	
	4-10	3.0	2.1	1.3	1.8	2.4	1.4	.5	.7	.0		13.2	
	11-21	2.5	3.0	1.0	2.2	3.8	2.9	.7	.9	.0		16.9	
	22+	1.7	.5	.2	.7	1.9	1.9	.5	.2	.0		7.6	
	TOT %	7.6	6.0	2.8	5.1	8.1	6.4	1.9	1.8	.0	.[illegible]	40.0	
10+	0-3	.2	.5	.2	.2	.4	.1	.2	.3	.0	.8	3.0	
	4-10	3.7	3.4	3.7	4.2	3.7	2.0	.7	.9	.0		22.3	
	11-21	2.9	3.4	1.4	2.2	5.1	4.7	.9	.6	.0		21.2	
	22+	.4	.1	.1	.1	2.6	2.1	.2	.0	.0		5.6	
	TOT %	7.2	7.4	5.5	6.7	11.8	8.9	2.0	1.8	.0	.8	52.1	
	TOT OBS												1283
	TOT PCT	16.6	15.0	8.9	12.6	21.0	16.4	4.3	4.1	.0	1.0	100.0	

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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
00&03	.8	.8	.0	12.7	17.8	7.6	1.7	2.5	.0	.8	44.9	55.1	118
06&09	.0	.7	1.4	6.3	15.4	5.6	2.8	.7	2.4	.7	35.0	65.0	143
12&15	.8	.0	2.3	8.3	15.0	9.8	2.3	.8	.0	1.5	40.6	59.4	133
18&21	1.0	.0	.0	3.9	15.5	8.7	2.9	1.0	.0	.0	33.0	67.0	103
TOT	3	2	5	39	79	39	12	6	2	4	191	306	497
PCT	.6	.4	1.0	7.8	15.9	7.8	2.4	1.2	.4	.8	38.4	61.6	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
00&03	.0	4.5	.8	4.5	36.0	54.3	247
06&09	.3	3.3	1.5	4.8	41.9	48.2	394
12&15	.0	2.7	1.4	2.4	32.7	60.9	294
18&21	.3	4.0	1.6	.8	47.4	46.0	378
TOT	2	47	18	40	529	677	1313
PCT	.2	3.6	1.4	3.0	40.3	51.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.9	1.9	18.7	31.8	49.5	107
06&09	.0	2.5	11.8	31.1	57.1	119
12&15	.8	3.2	12.8	31.2	56.0	125
18&21	1.0	1.0	7.2	27.8	64.9	97
TOT	3	10	57	137	254	448
PCT	.7	2.2	12.7	30.6	56.7	100.0

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	.2	.2	.2	.5	.2	.2	.2	9	1.4
70/74	.0	.0	.0	.0	1.0	1.8	2.1	1.1	37	5.9
65/69	.0	.0	.0	.8	2.4	5.6	10.0	5.4	152	24.2
60/64	.0	.0	.5	2.4	8.8	14.2	11.3	8.1	284	45.3
55/59	.0	.0	.2	1.4	6.1	6.7	5.9	1.6	137	21.9
50/54	.0	.0	.0	.0	.5	.2	.5	.2	8	1.3
TOTAL	0	1	5	30	120	179	188	104	627	100.0
PCT	.0	.2	.8	4.8	19.1	28.5	30.0	16.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.7	.3	.2	.0	.0	.2	.2	.0	.0	.0
1.9	1.4	.0	.7	.7	.4	.2	.6	.0	.0
5.1	6.3	3.0	3.1	2.2	2.7	.9	.6	.0	.3
5.7	6.1	6.1	6.9	10.9	4.6	2.3	1.9	.0	.6
1.0	1.0	1.2	1.3	7.7	7.2	1.0	1.1	.0	.3
.0	.0	.0	.0	.3	.7	.2	.2	.0	.0
14.4	15.1	10.4	12.1	21.8	15.7	4.7	4.3	.0	1.3

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	84	79	73	64	58	55	54	64.5	402
06&09	80	75	71	63	57	55	52	63.6	493
12&15	79	72	69	63	55	53	52	62.3	360
18&21	77	73	68	62	55	52	49	62.0	497
TOT	84	75	70	63	56	53	49	63.1	1752

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	10.6	21.2	33.3	22.7	12.1	75	132
06&09	.0	3.5	22.7	29.7	30.8	13.4	77	172
12&15	.0	4.8	19.2	27.5	28.1	20.4	78	167
18&21	.0	5.9	13.6	24.3	36.1	20.1	80	169
TOT	0	38	122	182	191	107	78	640

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	.2	3	.0	.3
11/13	.0	.0	.0	.0	.1	.1	.0	.0	2	.0	.2
9/10	.0	.0	.0	.0	.5	.3	.2	.2	12	.2	1.0
7/8	.0	.0	.0	.1	.6	.6	.1	.1	15	.3	1.2
6	.0	.0	.1	.4	.8	.3	.3	.0	19	.1	1.8
5	.0	.0	.0	.6	.6	.9	.3	.0	24	.0	2.5
4	.0	.1	.0	1.8	1.9	1.6	.0	.0	54	.6	4.9
3	.0	.0	.3	2.1	1.6	1.5	.1	.1	57	.5	5.3
2	.0	.1	.2	2.7	4.4	1.5	.0	.0	87	.7	8.2
1	.0	.1	1.5	3.5	4.0	.7	.0	.0	96	.8	9.0
0	.0	.3	3.3	5.1	3.6	.7	.1	.0	128	.8	12.3
-1	.0	.6	3.1	5.5	1.6	.3	.0	.0	109	.7	10.4
-2	.0	.5	3.6	5.0	1.4	.1	.0	.0	104	.3	10.3
-3	.0	.3	3.4	4.1	1.0	.0	.0	.0	86	.1	8.7
-4	.0	.4	2.6	2.8	.4	.0	.0	.0	60	.2	5.9
-5	.0	.6	3.1	1.3	.3	.0	.0	.0	52	.0	5.3
-6	.0	.5	1.7	1.2	.0	.0	.0	.0	34	.1	3.4
-7/-8	.0	.6	1.5	.5	.0	.0	.0	.0	26	.0	2.7
-9/-10	.1	.1	.3	.2	.0	.0	.0	.0	7	.0	.7
-11/-13	.1	.1	.0	.0	.0	.0	.0	.0	2	.0	.2
-14/-16	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	44	241	362	225	86	12	6	978	54	924
PCT	.2	4.5	24.6	37.0	23.0	8.8	1.2	.6	100.0	5.5	94.5

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.4	.0	.0	.0	.0	1.7
1-2	.3	2.5	.7	.0	.0	.0	3.5
3-4	.0	1.3	1.8	.4	.0	.0	3.6
5-6	.0	.5	1.2	.0	.0	.0	1.7
7	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.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
TOT PCT	.6	5.7	4.5	1.0	.0	.0	11.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.0	.0	.0	.0	.8
1-2	.3	2.3	1.0	.0	.0	.0	3.6
3-4	.0	1.4	2.2	.1	.0	.0	3.8
5-6	.0	.3	1.2	.4	.0	.0	1.9
7	.0	.0	.7	.6	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.6	4.5	5.1	1.1	.0	.0	11.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	2.8	.3	.0	.0	.0	3.1
3-4	.0	2.7	2.1	.0	.0	.0	4.8
5-6	.0	.2	1.1	.5	.0	.0	1.9
7	.0	.0	.0	.9	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	6.2	3.5	1.4	.0	.0	11.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.3	2.3	.7	.0	.0	.0	3.3
3-4	.0	3.3	1.5	1.2	.0	.0	6.0
5-6	.0	.7	.7	.1	.4	.0	1.9
7	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.3	.1	.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
TOT PCT	.3	6.4	4.4	1.4	.4	.0	12.9

PERIOD: (OVER-ALL) 1963-1971

NOVEMBER

TABLE 18 (CONT)

AREA 0008 CAPE HOWE NE
36.0S 150.8E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.1	.0	.0	.0	.0	2.1	.3	.8	.0	.0	.0	.0	1.1
1-2	.0	1.3	.2	.0	.0	.0	1.5	.0	2.0	.6	.0	.0	.0	2.6
3-4	.0	1.0	2.8	.6	.0	.0	4.5	.0	2.0	1.8	.0	.0	.0	3.8
5-6	.0	.9	5.4	1.9	.4	.0	8.6	.0	.1	3.9	.4	.1	.0	4.4
7	.0	.0	.9	1.1	.3	.0	2.3	.0	.1	1.6	1.6	.0	.0	3.2
8-9	.0	.0	.2	.8	.0	.0	1.0	.0	.0	.1	.7	.0	.0	.7
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.6	.9	.0	.0	1.5
12	.0	.0	.0	.0	.0	.2	.2	.0	.0	.3	.0	.3	.1	.7
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
23-25	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.4	.0	.4
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
TOT PCT	.0	5.3	9.5	4.9	1.0	.2	20.9	.3	5.0	8.8	3.9	1.3	.1	19.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
1-2	.3	.7	.6	.0	.0	.0	1.6	.6	1.0	.4	.0	.0	.0	2.0	
3-4	.0	1.5	.3	.0	.0	.0	1.8	.0	.1	.3	.0	.0	.0	.4	
5-6	.0	.5	1.2	.0	.0	.0	1.7	.0	.1	.8	.3	.0	.0	1.2	
7	.0	.2	.8	.0	.0	.0	1.0	.0	.0	.0	.3	.0	.0	.3	
8-9	.0	.0	.0	.3	.0	.0	.3	.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	.2	.0	.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	
TOT PCT	.3	3.0	2.9	.5	.0	.0	6.7	.6	1.4	1.5	.6	.0	.0	4.1	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.7	5.6	.0	.0	.0	.0	8.3	
1-2	1.8	15.0	4.4	.0	.0	.0	21.2	
3-4	.3	13.3	12.7	2.4	.0	.0	28.6	
5-6	.3	3.2	15.3	3.5	.9	.0	23.3	
7	.0	.3	5.6	4.4	.3	.0	10.6	
8-9	.0	.0	.6	1.8	.0	.0	2.4	
10-11	.0	.0	.9	1.8	.0	.0	2.7	
12	.0	.0	.3	.0	.3	.3	.9	
13-16	.0	.0	.0	.9	.0	.0	.9	
17-19	.0	.0	.0	.0	.3	.0	.3	
20-22	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.6	.0	.6	
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	
								339
TOT PCT	5.0	37.5	39.8	14.7	2.7	.3	100.0	

PERIOD: (OVER-ALL) 1949-1971

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	1.4	5.3	12.8	7.5	3.6	1.4	1.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	4
6-7	.0	.7	4.3	11.8	7.2	5.5	2.9	.5	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	141	6
8-9	.0	.2	2.4	3.4	4.6	2.2	1.9	1.4	1.0	.7	.5	.0	.2	.0	.0	.0	.0	.0	.0	77	8
10-11	.0	.2	.7	1.2	.5	1.4	.2	.7	.7	.2	.2	.5	.0	.0	.0	.0	.0	.0	.0	28	9
12-13	.0	.0	.0	.0	.5	.5	.2	.2	.0	1.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	13	14
>13	.0	.0	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
INDET	1.2	.5	.5	.2	.5	.0	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	4
TOTAL	11	29	86	101	70	46	27	14	13	8	7	2	1	0	0	0	0	0	0	415	6
PCT	2.7	7.0	20.7	24.3	16.9	11.1	6.5	3.4	3.1	1.9	1.7	.5	.2	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1888-1970
(OVER-ALL) 1857-1970

AREA 0008 CAPE HOWE NE
36.0S 150.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.4	1.4	2.2	.0	.0	.0	.0	5.9	.8	3.0	3.9	.0	6.5	.0	80.1
NE	2.2	2.2	.0	.0	.0	.0	.0	4.4	.7	3.6	3.6	.0	4.7	.0	84.9
E	5.3	3.7	3.7	.0	.0	.0	.0	12.7	1.2	5.0	3.7	.0	1.5	.0	78.3
SE	4.8	4.5	5.0	.0	.0	.0	.0	14.3	1.7	3.3	2.9	.0	1.7	.0	76.2
S	10.6	3.9	5.3	.0	.0	.0	.0	19.7	1.0	3.8	3.4	.0	.8	.0	74.3
SW	7.5	9.8	.7	.0	.0	.0	.0	18.0	2.2	6.0	2.0	.0	.2	.0	75.3
W	4.7	4.7	2.4	.0	.0	.0	.0	11.8	.0	5.9	2.4	.0	.0	.0	84.6
NW	3.9	.0	.0	.0	.0	.0	2.6	3.9	.7	3.9	7.8	.0	.0	.0	85.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.3	.0	.0	.0	.0	.0	.0	8.3	.0	.0	16.7	.0	.0	.0	75.0
TOT PCT	5.8	3.9	2.7	.0	.0	.0	.1	12.4	1.1	4.0	3.5	.0	2.4	.0	78.5
TOT OBS:	1071														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.7	1.8	2.7	.0	.0	.0	.0	7.2	2.3	.5	4.5	.0	1.8	.0	84.2
06&09	3.7	6.4	2.4	.0	.0	.0	.3	12.5	.9	2.4	4.6	.0	3.4	.0	77.1
12&15	8.5	2.4	2.8	.0	.0	.0	.0	13.8	.4	8.5	2.4	.0	2.4	.0	75.7
18&21	8.6	4.0	2.8	.0	.0	.0	.3	15.7	.9	4.9	3.4	.0	1.5	.0	76.9
TOT PCT	6.0	3.9	2.7	.0	.0	.0	.2	12.7	1.1	4.1	3.7	.0	2.3	.0	78.2
TOT OBS:	1122														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	6.1	8.5	1.9	.4	.0		17.4	14.0	18.1	21.1	13.5	12.9	14.7	12.8	21.4	21.7
NE	.6	7.3	7.8	1.6	.1	.0		17.3	12.5	13.1	21.5	21.4	20.3	21.0	15.9	10.8	13.9
E	.8	5.0	1.7	.3	.0	.0		7.7	9.0	8.9	7.3	8.9	11.4	9.9	7.0	4.9	5.7
SE	1.4	5.6	4.3	.7	.1	.0		12.0	10.7	4.2	10.3	15.2	15.7	15.9	15.2	9.7	7.9
S	.8	8.3	9.8	3.9	.7	.0		23.6	14.8	23.5	19.6	25.8	23.7	22.0	29.0	22.1	23.9
SW	.3	4.0	4.5	3.1	.9	.1		13.1	16.9	23.5	11.6	9.4	10.8	9.9	11.6	15.2	17.7
W	.2	1.2	1.5	.6	.1	*		3.6	14.3	4.0	4.0	2.8	2.5	1.8	3.9	6.3	2.2
NW	.4	1.7	1.1	.1	*	.0		3.4	10.4	4.7	3.3	2.8	1.5	2.4	3.6	4.7	3.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0	.0	1.4	.4	1.0	2.4	1.0	4.9	3.3
TOT OBS	115	446	647	197	39	2	1646		13.1	101	289	234	197	126	207	288	184
TOT PCT	7.0	39.2	39.3	12.0	2.4	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.4	9.1	4.7	1.1	.1		17.4	14.0	20.3	13.2	13.5	21.6
NE	2.8	10.0	4.0	.6	.0		17.3	12.5	19.3	20.9	17.9	12.0
E	3.0	3.8	.9	.1	.0		7.7	9.0	7.7	10.0	8.1	5.2
SE	3.2	6.4	2.1	.2	.1		12.0	10.7	8.7	13.4	15.5	9.0
S	3.3	10.4	8.2	1.7	.1		23.6	14.8	20.6	24.9	26.4	22.8
SW	1.6	5.6	3.7	1.7	.5		13.1	16.9	14.7	10.0	11.0	16.2
W	.9	1.4	1.0	.2	.1		3.6	14.3	4.0	2.7	3.1	4.7
NW	1.0	1.7	.5	.1	.0		3.4	10.4	3.7	2.2	3.2	4.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.9						1.9	.0	1.0	.7	1.5	4.2
TOT OBS	332	796	414	92	12	1646		13.1	390	451	333	472
TOT PCT	20.2	48.4	25.2	5.6	.7		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1888-1970
(OVER-ALL) 1857-1970

AREA 0008 CAPE HOWE NE
36.0S 150.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	1.0	4.1	39.7	39.7	12.8	2.3	.3	13.4	100.0	390
06&09	.7	5.3	37.9	40.6	13.1	2.2	.2	13.7	100.0	451
12&15	1.5	5.1	38.7	39.3	11.4	3.9	.0	13.6	100.0	333
18&21	4.2	5.5	40.5	37.7	10.6	1.5	.0	12.2	100.0	472
TOT	32	83	646	647	197	39	2	13.1		1646
PCT	1.9	5.0	39.2	39.3	12.0	2.4	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.6	1.6	4.3	5.7		4.8
NE	5.4	2.1	3.7	3.3		4.1
E	1.4	1.3	3.7	3.2		5.8
SE	2.7	1.7	3.7	4.1		5.4
S	4.7	3.9	6.1	9.0		5.4
SW	3.7	3.5	4.1	1.0		4.1
W	1.4	1.8	.8	.5		3.9
NW	1.2	.5	1.2	1.0		4.5
VAR	.0	.0	.0	.0		.0
CALM	.5	.3	.3	.8		5.1
TOT OBS	100	63	104	107	374	4.9
TOT PCT	26.7	16.8	27.8	28.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	1.1	.9	1.2	2.3	.3	.0	.0	.5	10.9	
NE	.3	.0	.5	1.5	1.0	.8	.0	.3	.0	.0	10.3	
E	.0	.0	.0	1.1	1.6	1.5	.3	.3	.0	.0	4.8	
SE	.0	.0	.1	.9	3.3	1.1	.1	.1	.0	.3	6.4	
S	.3	.0	.4	3.5	4.3	1.6	.9	.2	.0	.3	12.2	
SW	.0	.0	.0	.9	1.7	.1	.8	.3	.0	.0	8.7	
W	.0	.0	.0	.0	.5	.2	.3	.0	.0	.0	3.5	
NW	.0	.0	.0	.3	.9	.5	.0	.0	.0	.3	2.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.3	.3	.0	.0	.0	.0	.0	1.1	
TOT OBS	3	0	8	35	55	30	10	4	0	5	224	374
TOT PCT	.8	.0	2.1	9.4	14.7	8.0	2.7	1.1	.0	1.3	59.9	100.0

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 >50YD	= OR >0
= OR >6500	.8	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >5000	1.6	2.1	2.4	2.4	2.4	2.4	2.4	2.4
= OR >3500	3.2	4.7	5.0	5.0	5.0	5.0	5.0	5.0
= OR >2000	10.3	12.7	13.5	13.5	13.5	13.5	13.5	13.5
= OR >1000	21.4	27.4	28.2	28.2	28.2	28.2	28.2	28.2
= OR >600	28.0	35.9	36.7	36.9	37.2	37.2	37.2	37.2
= OR >300	29.3	38.0	38.8	39.1	39.3	39.3	39.3	39.3
= OR >150	29.3	38.0	38.8	39.1	39.3	39.3	39.3	39.3
= OR > 0	29.3	38.0	39.1	39.3	39.6	39.6	40.4	40.4
TOTAL	111	144	148	149	150	150	153	153

TOTAL NUMBER OF OBS: 379

PCT FREQ NH <5/8: 59.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
9.9	15.3	14.2	12.4	6.3	5.4	7.9	9.5	18.5	.7	444

PERIOD. (PRIMARY) 1888-1970
(OVER-ALL) 1857-1970

AREA 0008 CAPE HOWE NE
36.0S 150.8E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.2	.0	.0	.1	.0	.1	.4	
	TOT %	.0	.0	.0	.0	.2	.0	.0	.1	.0	.1	.4	
1/2<1	PCP	.0	.0	.0	.1	.5	.1	.0	.0	.0	.0	.7	
	NO PCP	.6	.3	.3	.3	.5	.2	*	.0	.0	.0	2.2	
	TOT %	.6	.3	.3	.4	.9	.3	*	.0	.0	.0	2.9	
1<2	PCP	.0	.0	.0	*	.1	*	.0	.1	.0	.0	.3	
	NO PCP	.3	.1	*	.1	*	.1	.0	.0	.0	.0	.7	
	TOT %	.3	.1	*	.1	.1	.1	.0	.1	.0	.0	1.0	
2<5	PCP	.1	.0	.0	.0	.1	*	.0	.0	.0	.0	.3	
	NO PCP	*	.3	.0	.2	.4	.1	.0	.1	.0	.1	1.2	
	TOT %	.1	.3	.0	.2	.5	.1	.0	.1	.0	.1	1.5	
5<10	PCP	.4	.7	.5	1.3	3.5	2.0	.4	*	.0	.1	9.0	
	NO PCP	8.2	8.7	2.8	4.2	10.1	6.1	1.4	1.7	.0	.4	43.5	
	TOT %	8.7	9.3	3.3	5.5	13.6	8.1	1.8	1.7	.0	.5	52.5	
10+	PCP	.5	.1	.5	.2	.6	.3	.1	.0	.0	.0	2.2	
	NO PCP	6.7	6.7	3.5	4.9	8.8	4.9	2.0	1.6	.0	.5	39.5	
	TOT %	7.1	6.8	3.9	5.1	9.4	5.2	2.1	1.6	.0	.5	41.7	
	TOT OBS												1071
	TOT PCT	16.9	16.9	7.5	11.3	24.8	14.0	3.9	3.6	.0	1.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.2	.0	.0	.1	.0	.1	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.1	.0	.1	.4	*	*	*	.0		1.0	
	11-21	.4	.1	.2	.2	.3	.2	.0	.0	.0		1.4	
	22+	.0	.1	.0	.0	.1	.1	.0	.0	.0		.2	
	TOT %	.6	.3	.2	.3	.8	.3	*	*	.0	.0	2.6	
1<2	0-3	.0	.2	*	*	.0	.0	.0	.0	.0	.0	.2	
	4-10	.1	.0	.0	*	*	.1	.0	.1	.0		.3	
	11-21	.2	*	.0	*	.1	*	.0	.0	.0		.4	
	22+	.0	.0	*	.1	.0	.0	.0	.0	.0		.2	
	TOT %	.3	.2	.1	.2	.1	.1	.0	.1	.0	.0	1.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.2	.1	.3	.2	.1	.0	.1	.0		1.1	
	11-21	*	.3	.1	.1	.3	.1	.0	.0	.0		.9	
	22+	.1	*	*	*	.2	.1	.0	.0	.0		.6	
	TOT %	.2	.5	.2	.4	.8	.3	.0	.1	.0	.1	2.6	
5<10	0-3	*	*	.3	.4	.4	.4	.2	.2	.0	.4	2.4	
	4-10	2.3	2.9	1.8	2.6	3.3	1.5	.6	.6	.0		15.6	
	11-21	4.3	4.1	.8	1.9	5.5	2.6	.4	.7	.0		20.2	
	22+	1.2	1.4	.1	.4	3.0	2.9	.4	.0	.0		9.2	
	TOT %	7.8	8.3	3.0	5.3	12.2	7.3	1.5	1.5	.0	.4	47.4	
10+	0-3	.2	.2	.3	.6	.1	.1	.0	.0	.0	.9	2.3	
	4-10	2.9	3.3	3.3	3.3	4.4	2.1	.6	.9	.0		20.8	
	11-21	3.9	3.5	.9	2.0	3.8	2.4	1.2	.7	.0		18.5	
	22+	.4	.1	*	.2	2.0	1.1	.3	.1	.0		4.3	
	TOT %	7.4	7.2	4.4	6.1	10.4	5.7	2.1	1.7	.0	.9	45.9	
	TOT OBS												1235
	TOT PCT	16.3	16.5	8.0	12.5	24.4	13.7	3.7	3.5	.0	1.5	100.0	

DECEMBER

PERIOD: (PRIMARY) 1888-1970
(OVER-ALL) 1857-1970

AREA 0008 CAPE HOWE NE
36.0S 150.8E

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
00&03	1.0	.0	1.0	9.1	7.1	6.1	3.0	1.0	.0	2.0	30.3	69.7	99
06&09	1.0	.0	1.0	6.7	10.5	4.8	2.9	1.9	.0	1.0	29.5	70.5	105
12&15	1.8	.0	2.7	10.6	16.8	10.6	.9	.9	.0	.0	44.2	55.8	113
18&21	.0	.0	3.2	7.4	20.0	9.5	3.2	.0	.0	2.1	45.3	54.7	95
TOT	4	0	8	35	56	32	10	4	0	5	154	258	412
PCT	1.0	.0	1.9	8.5	13.6	7.8	2.4	1.0	.0	1.2	37.4	62.6	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
00&03	.8	2.9	.8	1.7	44.4	49.4	239
06&09	.5	3.4	1.1	2.4	50.1	42.4	377
12&15	.4	.7	.7	3.2	45.4	49.6	284
18&21	.3	2.8	1.6	2.8	51.6	40.9	386
TOT	6	33	14	33	623	577	1286
PCT	.5	2.6	1.1	2.6	48.4	44.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.1	2.2	12.9	20.4	66.7	93
06&09	1.1	3.2	10.5	22.1	67.4	95
12&15	1.9	4.8	17.3	30.8	51.9	104
18&21	.0	3.4	12.6	36.8	50.6	87
TOT	4	13	51	104	224	379
PCT	1.1	3.4	13.5	27.4	59.1	100.0

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
80/84	.0	.0	.2	.0	.0	.0	.0	.0	1	.2
75/79	.0	.0	.0	.0	.0	.6	.0	.2	4	.7
70/74	.0	.0	.2	.0	1.7	3.1	6.1	2.8	75	13.9
65/69	.0	.0	.0	1.5	4.8	10.2	12.2	10.0	209	38.7
60/64	.0	.0	.2	3.3	8.9	10.4	8.5	5.2	197	36.5
55/59	.0	.0	.0	.6	2.4	3.3	2.4	1.1	53	9.8
50/54	.0	.0	.0	.0	.0	.2	.0	.0	1	.2
TOTAL	0	0	3	29	96	150	158	104	540	100.0
PCT	.0	.0	.6	5.4	17.8	27.8	29.3	19.3		

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	.2	.0	.0	.0
	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0
	5.9	4.3	.7	.7	.7	.8	.0	.5	.0	.2
	8.8	8.9	4.0	2.8	8.1	2.4	.9	1.7	.0	1.3
	2.5	2.7	3.8	5.4	12.0	6.9	2.1	.8	.0	.4
	.1	.2	.7	1.7	3.1	2.1	1.6	.2	.0	.2
	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
	17.7	16.4	9.1	10.6	23.9	12.3	4.8	3.2	.0	2.0

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	80	77	74	67	60	58	53	67.0	373
06&09	82	75	72	66	60	58	56	66.1	449
12&15	74	72	71	64	58	55	51	64.6	340
18&21	76	73	71	64	58	55	54	64.5	485
TOT	82	75	72	65	59	56	51	65.5	1647

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	13.6	20.0	31.2	20.8	14.4	74	125
06&09	.0	5.8	23.9	26.1	37.0	7.2	76	138
12&15	.0	1.4	15.1	25.9	30.9	26.6	81	139
18&21	.0	4.0	12.1	27.5	28.2	28.2	81	149
TOT	0	33	97	152	162	107	78	551

DECEMBER

PERIOD: (PRIMARY) 1888-1970
(OVER-ALL) 1857-1970

AREA 0008 CAPE HOWE NE
36.0S 150.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.1	.0	.1	2	.0	.2
9/10	.0	.0	.0	.1	.1	.1	.0	3	.1	.2
7/8	.0	.0	.0	.4	.7	.2	.1	14	.1	1.3
6	.0	.0	.0	.4	.4	.8	.1	17	.1	1.6
5	.0	.0	.0	.4	1.1	1.1	.0	26	.2	2.4
4	.0	.0	.8	1.0	1.7	.5	.0	40	.2	3.8
3	.0	.0	.3	1.7	2.6	.6	.0	52	.5	4.7
2	.0	.1	1.4	2.9	3.8	.3	.0	85	.2	8.3
1	.0	.2	2.0	4.7	3.9	.2	.0	110	.8	10.2
0	.0	.5	2.1	6.0	4.0	.1	.0	127	.3	12.4
-1	.1	.8	3.3	4.5	1.7	.1	.0	105	.2	10.3
-2	.0	1.5	5.2	3.8	.8	.0	.0	113	.4	10.9
-3	.0	1.9	5.0	3.0	.4	.0	.0	103	.2	10.1
-4	.2	1.7	4.5	1.7	.1	.0	.0	82	.2	8.0
-5	.0	1.0	2.5	.7	.0	.0	.0	42	.1	4.1
-6	.2	.6	1.9	.2	.0	.0	.0	29	.1	2.8
-7/-8	.0	1.1	2.0	.3	.0	.0	.0	34	.3	3.1
-9/-10	.1	.5	.6	.0	.0	.0	.0	12	.0	1.2
-11/-13	.0	.2	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	6	101	316	318	214	40	3	998	40	958
PCT	.6	10.1	31.7	31.9	21.4	4.0	.3	100.0	4.0	96.0

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.4	.0	.0	.0	.0	1.7
1-2	.0	1.3	.9	.0	.0	.0	2.2
3-4	.0	2.4	4.3	.4	.0	.0	7.0
5-6	.0	1.1	4.5	.0	.0	.0	5.6
7	.0	.0	.4	.4	.3	.0	1.0
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	6.1	10.0	1.1	.3	.0	17.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.4	4.0	2.4	.0	.0	.0	6.8
3-4	.0	1.5	4.6	.0	.0	.0	6.0
5-6	.0	.4	1.1	.0	.0	.0	1.5
7	.0	.4	.4	.0	.0	.0	.7
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	6.4	8.4	.1	.0	.0	15.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	1.6	.4	.0	.0	.0	2.0
3-4	.0	2.1	.7	.0	.0	.0	2.8
5-6	.0	.4	.0	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	5.5	1.1	.3	.0	.0	6.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.4	.0	.0	.0	1.6
1-2	.4	2.0	.7	.0	.0	.0	3.1
3-4	.4	2.2	1.9	.0	.0	.0	4.5
5-6	.0	.0	1.1	.2	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.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
TOT PCT	.7	5.5	4.6	.4	.0	.0	11.1

PERIOD: (OVER-ALL) 1963-1970

DECEMBER

TABLE 18 (CONT)

AREA 0008 CAPE HOWE NE
36.05 150.8E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.9	.0	.0	.0	.0	1.9	.0	.5	.0	.0	.0	.0	.5
1-2	.0	3.2	.4	.0	.0	.0	3.6	.0	1.7	1.2	.0	.0	.0	2.9
3-4	.0	2.9	2.4	1.0	.0	.0	6.3	.0	2.7	.9	.1	.0	.0	3.7
5-6	.0	.7	2.6	2.9	.4	.0	6.6	.0	.4	1.1	.6	.4	.0	2.5
7	.0	.0	.7	.7	.0	.0	1.5	.0	.0	1.5	.4	.0	.0	1.8
8-9	.0	.0	.0	.6	.6	.0	1.3	.0	.0	.4	.5	.1	.0	.9
10-11	.0	.3	.6	.0	.0	.0	.9	.0	.1	.4	.7	.0	.0	1.2
12	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.5	.0	.0	.5	.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
TOT PCT	.0	9.0	6.7	6.5	1.0	.0	23.2	.0	5.4	5.4	2.7	.5	.0	14.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.6	.0	.0	.0	.6	.0	.7	.0	.0	.0	.0	.7	
3-4	.0	.6	1.0	.0	.0	.0	1.6	.0	.2	1.0	.0	.0	.0	1.2	
5-6	.0	.7	.7	1.0	.0	.0	2.5	.0	1.1	.3	.0	.0	.0	1.4	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.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	.4	.0	.0	.4	
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	
TOT PCT	.0	1.7	2.4	1.0	.0	.0	5.1	.0	2.0	1.3	.4	.1	.0	3.7	97.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.3	6.9	.4	.0	.0	.0	10.5	
1-2	1.1	14.5	6.5	.0	.0	.0	22.1	
3-4	.4	14.5	16.7	1.4	.0	.0	33.0	
5-6	.0	4.7	11.2	4.7	.7	.0	21.4	
7	.4	.4	2.9	1.4	.4	.0	5.4	
8-9	.0	.0	.4	1.8	.7	.0	2.9	
10-11	.0	.4	1.4	1.1	.0	.0	2.9	
12	.0	.0	.0	1.1	.0	.0	1.1	
13-16	.0	.0	.0	.7	.0	.0	.7	
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	
TOT PCT	5.1	41.3	39.5	12.3	1.8	.0	100.0	276

PERIOD: (OVER-ALL) 1949-1970

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	1.6	6.7	11.8	4.6	4.0	1.3	.8	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	4
6-7	.0	.8	9.1	13.7	8.6	2.2	.5	1.3	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	6
8-9	.0	.5	1.6	4.0	3.8	2.4	1.6	1.3	1.9	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	65	8
10-11	.0	.0	.8	.5	.8	2.4	.5	.0	.0	.5	.3	.3	.0	.0	.0	.0	.0	.0	.0	23	9
12-13	.0	.0	.5	.0	.5	.0	.3	.5	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	10
>13	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
INDET	1.6	.3	.8	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	3
TOTAL	12	31	92	89	66	33	14	14	13	5	2	1	0	0	0	0	0	0	0	372	6
PCT	3.2	8.3	24.7	23.9	17.7	8.9	3.8	3.8	3.5	1.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	100.0	

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AREA 0008 CAPE HOWE NE
36.0S 150.8E

PERIOD: (PRIMARY) 1888-1973
(OVER-ALL) 1855-1973

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.2	1.6	1.0	.0	.0	.0	.0	4.8	.8	3.5	3.9	.0	4.0	*		83.7
NE	3.6	3.1	1.6	.0	.0	.0	*	8.3	1.3	2.8	3.1	.0	2.9	.0		82.6
E	5.6	6.3	2.4	.0	.0	.0	.1	14.3	1.1	1.8	2.5	.0	1.1	.0		79.9
SE	5.5	7.7	2.4	.0	.0	.0	.2	15.7	2.4	1.9	2.5	.0	.9	*		76.9
S	6.0	7.6	2.0	.0	.0	.0	.1	15.5	2.4	2.4	1.6	.0	1.1	*		78.2
SW	5.6	8.2	1.9	.0	.0	.0	.2	15.9	2.3	3.7	1.6	.0	.8	.0		77.3
W	4.5	4.6	1.0	.0	.0	.0	.0	9.9	2.0	4.5	2.3	.0	1.1	.0		81.2
NW	2.5	1.8	1.2	.0	.0	.0	.2	5.5	.8	5.0	4.0	.0	.7	.0		84.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	3.6	.7	.0	.0	.0	.0	.0	4.3	.0	3.3	3.3	.0	3.5	.0		85.6
TOT PCT	4.4	5.1	1.6	.0	.0	.0	.1	11.1	1.6	3.2	2.5	.0	1.8	*		80.7

TOT OBS: 12938

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.6	4.6	1.3	.0	.0	.0	.1	9.5	1.7	.2	2.4	.0	2.1	.0		84.3
06&09	4.3	5.3	1.3	.0	.0	.0	.2	10.9	1.3	2.1	2.8	.0	2.4	*		81.5
12&15	5.2	4.2	1.7	.0	.0	.0	.1	11.0	2.0	6.3	1.7	.0	1.6	*		79.0
18&21	5.0	6.2	1.9	.0	.0	.0	.1	13.1	1.5	4.2	3.3	.0	1.1	.0		77.9
TOT PCT	4.5	5.2	1.6	.0	.0	.0	.1	11.3	1.6	3.3	2.6	.0	1.8	*		80.4

TOT OBS: 13463

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	7.0	6.6	1.4	.2	*		16.2	12.2	15.8	17.6	14.0	16.3	16.2	17.6	16.3	15.5
NE	.8	5.9	4.9	1.0	.1	*		12.7	11.4	8.8	12.4	16.8	17.5	14.2	12.7	9.2	8.3
E	.6	3.8	1.7	.4	.1	*		6.6	10.3	5.7	6.4	8.1	8.3	6.7	6.6	5.5	4.9
SE	.7	4.5	3.3	.8	.2	*		9.4	12.0	5.5	8.2	11.6	12.8	9.7	10.4	7.4	8.5
S	.8	6.4	8.0	3.2	.7	.2		19.3	15.1	20.1	18.4	21.7	19.1	21.1	17.7	18.1	20.1
SW	.5	5.1	6.4	3.8	1.1	.2		17.1	16.9	23.7	17.2	15.3	18.5	15.7	15.4	19.3	20.2
W	.6	3.4	3.3	1.4	.4	.1		9.1	14.5	10.9	9.0	6.3	6.7	8.5	9.2	12.4	9.9
NW	.6	3.7	2.6	.6	.1	*		7.6	11.4	7.9	9.1	4.9	4.9	5.5	8.4	9.1	10.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0	1.6	1.8	1.3	1.9	2.4	1.9	2.7	1.8
TOT OBS							20393		13.3	1298	3244	3227	2491	1708	2551	3617	2257
TOT PCT	7.4	39.7	36.9	12.6	2.8	.5		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.6	8.6	3.4	.5	.1		16.2	12.2	17.0	15.0	17.1	16.0
NE	3.1	6.7	2.4	.4	*		12.7	11.4	11.5	17.1	13.3	8.9
E	2.4	3.1	.8	.2	.1		6.6	10.3	6.2	8.2	6.7	5.3
SE	2.4	4.9	1.7	.3	.1		9.4	12.0	7.5	12.2	10.1	7.8
S	3.1	8.7	5.5	1.6	.4		19.3	15.1	18.8	20.6	19.0	18.9
SW	2.4	6.6	5.3	2.2	.5		17.1	16.9	19.0	14.1	15.5	19.7
W	1.9	3.9	2.4	.8	.2		9.1	14.5	9.6	6.4	8.9	11.4
NW	2.1	3.8	1.3	.3	*		7.6	11.4	8.7	4.9	7.3	9.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.9						1.9	.0	1.7	1.6	2.1	2.4
TOT OBS						20393		13.3	4542	5718	4259	5874
TOT PCT	23.0	46.4	22.9	6.2	1.4		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1888-1973
(OVER-ALL) 1855-1973

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36.0S 150.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.7	6.1	38.3	36.0	14.0	3.1	.7	13.6	100.0	4542
06&09	1.6	5.4	38.2	38.5	13.0	2.9	.5	13.6	100.0	5718
12&15	2.1	4.9	40.1	38.3	11.7	2.6	.4	13.1	100.0	4259
18&21	2.4	5.7	42.0	34.8	11.8	2.8	.6	12.9	100.0	5874
TOT								13.3		20393
PCT	1.9	5.5	39.7	36.9	12.6	2.8	.5		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.0	2.2	3.5	2.3		3.5
NE	5.1	1.8	3.0	2.2		3.9
E	1.6	1.0	2.1	1.8		4.9
SE	1.9	1.3	3.0	2.4		5.1
S	5.1	3.8	7.0	5.4		4.9
SW	6.1	3.8	6.8	2.6		4.3
W	3.7	2.0	2.5	1.0		4.0
NW	3.0	.9	1.7	.6		3.4
VAR	.0	.0	.0	.0		.0
CALM	.8	.3	.4	.4		3.7
TOT OBS					5051	4.2
TOT PCT	34.4	16.9	29.8	18.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	*	.2	.7	1.2	1.0	.5	.1	.1	.1	11.1	
NE	*	*	.2	.6	1.3	.7	.3	.1	*	.1	8.7	
E	*	*	.1	.6	1.1	.7	.2	.1	.0	*	3.6	
SE	*	*	.1	.9	1.9	.8	.4	.1	*	.1	4.2	
S	.1	*	.3	2.3	4.3	2.0	.8	.2	.1	.1	11.2	
SW	*	*	.2	1.4	2.8	1.7	.8	.1	*	*	12.1	
W	*	*	.1	.5	1.3	.4	.2	.1	*	.1	6.6	
NW	.0	.0	*	.2	.6	.4	.1	.1	.0	.2	4.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	*	.1	.3	.1	*	.0	.0	*	1.2	
TOT OBS												5051
TOT PCT	.3	.1	1.3	7.3	14.8	7.7	3.3	.7	.3	.7	63.5	100.0

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 >50YD	* OR >0
* OR >6500	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >5000	1.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7
* OR >3500	4.2	4.8	5.0	5.0	5.0	5.0	5.0	5.0
* OR >2000	10.6	12.3	12.7	12.7	12.7	12.7	12.7	12.8
* OR >1000	21.8	26.7	27.4	27.5	27.5	27.5	27.5	27.5
* OR >600	26.1	33.2	34.4	34.7	34.7	34.7	34.7	34.7
* OR >300	26.6	34.3	35.6	35.9	36.0	36.0	36.0	36.0
* OR >150	26.7	34.4	35.8	36.1	36.1	36.2	36.2	36.2
* OR > 0	26.8	34.5	35.9	36.3	36.3	36.4	36.5	36.5

TOTAL NUMBER OF OBS: 5156 PCT FREQ NH <5/8: 63.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.8	17.6	14.2	10.3	7.1	7.1	7.8	8.7	13.2	.2	6057

PERIOD: (PRIMARY) 1888-1973
(OVER-ALL) 1855-1973

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	*	*	*	.0	*	.0	.0	.1	
	NO PCP	*	*	*	*	*	*	.0	*	.0	*	.2	
	TOT %	*	*	*	*	*	*	.0	*	.0	*	.2	
1/2<1	PCP	*	*	*	*	.1	.1	*	*	.0	.0	.4	
	NO PCP	.5	.3	.1	.1	.2	.2	.1	.1	.0	.0	1.5	
	TOT %	.5	.3	.1	.2	.3	.3	.1	.2	.0	.0	1.9	
1<2	PCP	*	*	*	*	.1	.1	*	*	.0	.0	.3	
	NO PCP	.3	.2	.1	.1	.1	.1	*	*	.0	*	.9	
	TOT %	.3	.2	.1	.1	.2	.2	.1	*	.0	*	1.2	
2<5	PCP	.1	.1	.1	.1	.3	.2	.1	*	.0	*	.9	
	NO PCP	.2	.2	.1	.1	.2	.1	.1	.1	.0	*	1.1	
	TOT %	.3	.3	.2	.2	.4	.3	.1	.1	.0	*	2.0	
5<10	PCP	.5	.6	.5	.9	2.1	2.0	.6	.3	.0	*	7.5	
	NO PCP	6.2	4.9	2.1	3.2	6.5	5.3	3.2	2.9	.0	.3	34.5	
	TOT %	6.6	5.5	2.6	4.1	8.6	7.3	3.8	3.2	.0	.3	42.0	
10+	PCP	.2	.2	.2	.2	.5	.5	.1	*	.0	*	1.9	
	NO PCP	8.2	6.0	3.3	4.2	9.9	9.3	5.1	3.9	.0	.8	50.8	
	TOT %	8.4	6.2	3.5	4.5	10.4	9.8	5.2	3.9	.0	.8	52.7	
	TOT OBS												12935
	TOT PCT	16.2	12.5	6.5	9.1	20.0	17.9	9.3	7.4	.0	1.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	.0	*	.0	*	*	.0	*	*	
	4-10	*	*	*	.0	*	.0	.0	*	.0		.1	
	11-21	.0	*	.0	*	*	*	.0	*	.0		.1	
	22+	.0	.0	.0	*	.0	*	.0	.0	.0		*	
	TOT %	*	*	*	*	.1	*	*	*	.0	*	.2	
1/2<1	0-3	*	*	*	*	*	.0	*	*	.0	.0	.1	
	4-10	.1	.1	*	*	.1	.1	*	*	.0		.6	
	11-21	.2	.1	*	.1	.1	.1	*	.1	.0		.7	
	22+	.1	*	*	*	.1	.1	*	*	.0		.3	
	TOT %	.5	.3	.1	.2	.3	.3	.1	.1	.0	.0	1.7	
1<2	0-3	*	*	*	*	*	*	*	.0	.0	*	.1	
	4-10	.1	.1	*	.1	.1	*	*	*	.0		.4	
	11-21	.2	.1	*	*	.1	.1	*	*	.0		.5	
	22+	*	*	*	.1	.1	.1	*	*	.0		.3	
	TOT %	.3	.2	.1	.2	.2	.2	.1	*	.0	*	1.3	
2<5	0-3	*	*	*	*	*	*	.0	*	.0	*	.1	
	4-10	.1	.1	.1	.1	.1	.1	.1	*	.0		.8	
	11-21	.2	.1	.1	.1	.2	.1	*	*	.0		.8	
	22+	.1	.1	.1	.1	.3	.2	*	*	.0		.8	
	TOT %	.4	.3	.2	.3	.5	.4	.1	.1	.0	*	2.5	
5<10	0-3	.4	.3	.2	.3	.3	.2	.2	.2	.0	.3	2.4	
	4-10	2.2	2.0	1.3	1.6	2.1	1.6	1.1	1.2	.0		13.1	
	11-21	2.6	2.3	.7	1.4	3.4	2.5	1.1	1.0	.0		15.1	
	22+	.8	.5	.2	.5	2.1	2.4	.9	.4	.0		7.9	
	TOT %	6.1	5.1	2.4	3.9	7.9	6.6	3.4	2.8	.0	.3	38.5	
10+	0-3	.4	.4	.3	.3	.4	.3	.3	.3	.0	1.2	4.0	
	4-10	4.1	3.4	2.5	2.8	4.0	3.2	2.1	2.2	.0		24.2	
	11-21	3.7	2.6	.8	1.6	4.7	4.3	2.3	1.5	.0		21.5	
	22+	.5	.3	.1	.3	1.6	2.3	.8	.2	.0		6.2	
	TOT %	8.7	6.7	3.7	5.0	10.8	10.2	5.4	4.2	.0	1.2	55.8	
	TOT OBS												14782
	TOT PCT	15.9	12.6	6.5	9.5	19.7	17.6	9.0	7.4	.0	1.6	100.0	

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PERIOD: (PRIMARY) 1888-1973
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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
00&03	.3	.2	1.2	6.8	14.7	6.9	3.3	.8	.1	.8	35.1	64.9	1329
06&09	.1	.1	.8	5.4	12.4	6.7	3.3	.9	.5	.5	30.8	69.2	1480
12&15	.3	.1	1.7	7.8	13.6	7.6	2.6	.7	.3	.7	35.4	64.6	1609
18&21	.4	.1	.9	6.1	12.7	7.1	2.9	.2	.0	.6	30.9	69.1	1288
TOT													5706
PCT	.3	.1	1.2	6.6	13.4	7.0	3.0	.7	.2	.7	33.1	66.9	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
00&03	.3	1.6	1.1	2.8	33.9	60.3	2766
06&09	.2	1.8	1.4	2.9	42.6	51.1	4467
12&15	.1	1.2	1.2	2.1	33.6	61.8	3587
18&21	.3	2.2	1.5	1.9	43.2	50.9	4488
TOT							15308
PCT	.2	1.8	1.3	2.4	39.1	55.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.3	2.0	11.1	28.2	60.7	1213
06&09	.2	1.5	9.1	26.8	64.2	1286
12&15	.3	2.2	11.9	26.2	61.9	1505
18&21	.4	1.7	9.5	25.3	65.2	1152
TOT						5156
PCT	.3	1.9	10.4	26.7	62.9	100.0

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
85/89	.0	*	.0	*	.0	.0	.0	.0		*
80/84	.0	.0	.1	*	*	*	*	*		.1
75/79	.0	*	.1	.2	.2	.6	.5	.1		1.7
70/74	.0	*	*	.3	1.7	2.5	3.9	2.4		10.9
65/69	.0	*	.2	1.1	4.3	6.8	7.8	3.8		24.0
60/64	.0	*	.4	2.4	7.3	8.9	7.2	4.3		30.6
55/59	.0	.0	.6	2.6	6.1	7.8	5.5	2.2		24.9
50/54	.0	*	.1	.7	2.0	1.8	2.0	.8		7.3
45/49	.0	.0	*	.0	.1	.2	.1	*		.4
TOTAL									7443	100.0
PCT	.0	.1	1.5	7.4	21.7	28.5	27.0	13.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	*	*	.0	.0	.0	.0	*	*	.0	.0
80/84	*	*	*	.0	*	*	*	*	.0	*
75/79	.7	.5	.1	.1	.1	.1	.1	.1	.0	*
70/74	3.6	3.1	.7	.6	1.2	.5	.3	.6	.0	.2
65/69	4.7	4.4	2.3	2.4	4.8	2.4	1.1	1.5	.0	.5
60/64	4.5	3.0	2.2	3.6	7.1	5.0	2.8	2.0	.0	.4
55/59	2.1	1.4	1.3	1.8	5.7	6.4	3.9	1.9	.0	.4
50/54	.2	*	.1	.3	1.6	2.9	1.5	.6	.0	.1
45/49	*	.0	.0	.0	*	.2	.1	*	.0	.0
PCT	15.9	12.5	6.6	8.7	20.6	17.5	9.7	6.7	.0	1.8

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	84	74	71	64	57	54	46	64.0	4397
06&09	88	73	70	63	57	54	45	63.6	5683
12&15	82	70	68	62	56	53	46	62.4	4337
18&21	83	71	68	61	55	52	45	61.8	5979
TOT	88	73	69	63	56	53	45	62.9	20396

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	12.8	23.2	28.5	24.6	10.9	74	1553
06&09	.0	9.8	24.7	29.3	25.1	11.1	75	2046
12&15	.0	7.1	19.9	28.5	28.9	15.5	77	2030
18&21	.0	6.9	18.6	27.3	29.3	17.9	78	2050
TOT	0	683	1650	2188	2085	1073	76	7679

PERIOD: (PRIMARY) 1888-1973
(OVER-ALL) 1855-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
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	85 88	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	.0	.0	*	.0	*	*	.0	*	8	.0	.1
11/13	.0	.0	.0	.0	*	*	.1	*	*	*	*	23	*	.2
9/10	.0	.0	.0	*	.1	.1	.1	.1	*	.0	.0	45	*	.3
7/8	.0	.0	.0	.1	.2	.2	.3	.1	.1	.0	.0	123	.1	1.0
6	.0	.0	*	.1	.1	.2	.2	.2	.1	*	.0	101	*	.8
5	.0	.0	*	.1	.3	.4	.4	.4	.1	*	.0	200	*	1.7
4	.0	*	*	.3	.9	.8	.7	.4	.1	*	.0	374	.1	3.1
3	.0	*	.1	.4	.8	.8	1.0	.4	.1	*	.0	414	.1	3.5
2	.0	*	.2	.8	1.7	1.8	1.8	.7	.1	*	.0	800	.3	6.6
1	.0	*	.3	1.2	2.0	1.9	1.9	.6	*	.0	.0	922	.3	7.6
0	.0	.1	.6	2.5	3.1	2.8	2.4	.6	*	.0	.0	1414	.5	11.7
-1	.0	.1	.8	2.2	2.5	2.1	1.7	.2	.0	.0	.0	1103	.2	9.3
-2	.0	.2	1.1	3.1	3.4	2.6	1.3	.2	*	.0	.0	1386	.3	11.6
-3	*	.1	1.4	2.8	2.2	2.0	.7	*	*	.0	.0	1084	.2	9.1
-4	.0	.3	1.7	2.4	2.7	1.8	.3	*	.0	.0	.0	1069	.2	9.0
-5	*	.5	1.6	2.3	1.7	1.1	.2	*	.0	.0	.0	866	.1	7.3
-6	*	.3	1.2	1.4	1.2	.6	.1	.0	.0	.0	.0	557	.1	4.7
-7/-8	*	.5	1.7	1.7	1.4	.3	*	*	.0	.0	.0	636	.1	5.5
-9/-10	*	.4	1.0	.8	.4	.1	*	*	.0	.0	.0	328	*	2.8
-11/-13	.1	.2	.5	.3	.1	*	*	.0	.0	.0	.0	138	*	1.2
-14/-16	.0	.1	.1	*	*	.0	.0	.0	.0	.0	.0	23	*	.2
TOTAL												11635		
PCT	.2	2.8	12.2	22.5	25.0	19.6	12.9	4.0	.7	.1	*	100.0	2.7	97.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.9	*	.0	.0	.0	1.1
1-2	.2	3.4	.9	.0	.0	.0	4.5
3-4	.0	1.8	3.3	.2	.0	.0	5.3
5-6	.0	.5	2.2	.3	.0	.0	3.0
7	.0	*	.5	.2	*	.0	.8
8-9	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	*	.0	.0	*
13-16	.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
TOT PCT	.4	6.6	7.3	1.0	*	.0	15.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	*	.0	.0	.0	.8
1-2	.2	2.9	.9	.0	.0	.0	4.0
3-4	*	1.3	2.4	.1	.0	.0	3.9
5-6	.0	.3	1.5	.2	.0	.0	2.0
7	.0	*	.5	.3	.0	*	.8
8-9	.0	.0	.2	.1	*	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	*	*	.0	.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
TOT PCT	.3	5.3	5.5	.8	*	*	11.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.0	.0	.0	.0	.6
1-2	.1	1.6	.3	.0	.0	.0	2.0
3-4	*	1.2	.5	*	.0	.0	1.8
5-6	.0	.1	.6	.1	.0	.0	.8
7	.0	.1	.1	.1	.0	.0	.3
8-9	.0	.0	.1	*	.1	.0	.2
10-11	.0	*	.0	.0	.0	.0	*
12	.0	.0	.0	.0	*	.0	*
13-16	.0	.1	.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
TOT PCT	.2	3.6	1.6	.3	.1	.0	5.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.1	.0	.0	.0	.6
1-2	.1	1.7	.4	.0	.0	.0	2.2
3-4	.1	1.2	1.4	.1	.0	.0	2.8
5-6	.0	.2	.8	.1	*	.0	1.2
7	*	.0	.3	.2	.0	.0	.5
8-9	.0	.0	.1	*	.1	.0	.2
10-11	.0	.0	.1	.1	*	.0	.3
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	*	*	*	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	*	.0	.0	*
23-25	.0	.0	.0	.0	*	.0	*
26-32	.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
TOT PCT	.3	3.6	3.2	.7	.2	.0	7.9

ANNUAL

PERIOD: (OVER-ALL) 1963-1973

AREA 0008 CAPE HOWE NE
36.0S 150.8E

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	*	.0	.0	.0	1.2
1-2	.1	3.1	1.2	.0	.0	.0	4.5
3-4	.0	2.0	3.7	.3	.0	.0	6.0
5-6	.0	.5	3.1	1.3	.1	.0	5.0
7	*	.1	1.0	1.1	.2	.0	2.3
8-9	.0	.0	.5	.6	.3	.0	1.3
10-11	.0	*	.1	.2	.1	.0	.4
12	.0	.0	.0	.2	*	*	.2
13-16	.0	.0	*	.2	.2	*	.5
17-19	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.1	.1	*	.2
23-25	.0	.0	.0	.0	*	.0	*
26-32	.0	.0	.0	*	.1	.1	.2
33-40	.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
TOT PCT	.4	6.6	9.7	4.0	1.1	.2	21.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.1	.0	.0	.0	.7
1-2	.1	3.1	1.0	.0	.0	.0	4.1
3-4	*	1.8	3.1	.3	.0	.0	5.2
5-6	.0	.2	2.6	1.0	.1	.0	3.9
7	.0	.1	1.2	1.1	.1	*	2.4
8-9	.0	.0	.3	.5	.2	.0	.9
10-11	.0	*	.2	.6	.1	.0	.9
12	.0	.0	*	.3	.1	*	.4
13-16	.0	.0	.0	.2	.2	.1	.5
17-19	.0	.0	.0	*	.1	.0	.1
20-22	.0	.0	.0	.0	*	*	*
23-25	.0	.0	.0	.0	*	.0	*
26-32	.0	.0	.0	.0	*	.0	*
33-40	.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
TOT PCT	.3	5.6	8.4	4.0	.9	.1	19.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.1	.0	.0	.0	.7
1-2	*	1.8	.6	.0	.0	.0	2.5
3-4	.0	1.0	1.4	.2	.0	.0	2.6
5-6	.0	.2	1.4	.4	*	.0	2.1
7	.0	*	.3	.3	*	.0	.7
8-9	.0	.0	.2	.3	.0	.0	.5
10-11	.0	.0	.0	.1	.1	.0	.1
12	.0	.0	*	.1	.0	.0	.1
13-16	.0	*	.0	.1	*	*	.2
17-19	.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
TOT PCT	.2	3.5	4.1	1.5	.1	*	9.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.5	.1	.0	.0	.0	.7	
1-2	.1	1.8	.3	.0	.0	.0	2.1	
3-4	.0	.7	1.2	*	.0	.0	1.9	
5-6	.0	.2	.8	.1	.0	.0	1.0	
7	.0	.0	.2	.1	*	.0	.3	
8-9	.0	.0	.1	*	.0	.0	.1	
10-11	.0	.0	*	.1	.0	.0	.1	
12	.0	.0	*	*	.0	.0	.1	
13-16	.0	.0	.0	*	.0	.0	*	
17-19	.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	
TOT PCT	.2	3.1	2.7	.4	*	.0	6.4	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.9	4.9	.3	.0	.0	.0	9.1	
1-2	1.0	19.2	5.5	.0	.0	.0	25.7	
3-4	.2	10.9	16.8	1.2	.0	.0	29.1	
5-6	.1	2.2	12.9	3.5	.2	.0	18.9	
7	.1	.3	4.0	3.3	.3	.1	8.0	
8-9	*	.0	1.6	1.7	.6	.0	3.9	
10-11	.0	.1	.5	1.3	.3	.0	2.2	
12	.0	.0	.1	.6	.1	.1	.9	
13-16	*	.1	.1	.7	.3	.1	1.4	
17-19	.0	.0	*	.1	.1	.0	.3	
20-22	.0	.0	.0	.1	.1	.1	.2	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	*	.1	.1	.2	
33-40	.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	
TOT PCT	5.3	37.6	41.8	12.5	2.4	.3	100.0	3810

PERIOD: (OVER-ALL) 1949-1972

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	1.4	8.0	11.4	7.2	3.2	1.1	.7	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1620	4
6-7	*	.9	7.1	10.8	7.2	3.4	1.4	1.0	.7	.1	.1	*	.1	.0	.0	.0	.0	.0	.0	1590	6
8-9	.0	.3	1.9	4.2	4.4	2.5	1.9	1.1	1.2	.4	.3	.1	.2	.0	*	.0	.0	.0	.0	887	8
10-11	.0	.2	.8	1.0	1.2	1.1	.8	.6	.5	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	316	8
12-13	.0	.0	.3	.1	.4	.2	.3	.3	.4	.2	.1	*	*	.0	.0	.0	.0	.0	.0	112	10
>13	.0	.0	.0	.2	.1	.1	*	*	.2	*	.1	*	*	.0	.0	.0	.0	.0	.0	43	11
INDET	1.4	.7	1.0	1.0	.5	.3	.1	.1	.2	*	.1	.0	*	.0	.0	.0	.0	.0	.0	260	4
TOTAL																				4828	6
PCT	2.8	10.0	22.4	24.6	17.0	8.7	5.2	3.4	3.4	1.1	.8	.3	.3	.0	*	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1888-1973
(OVER-ALL) 1855-1973

AREA 0008 CAPE HOWE NE
36.0S 150.8E

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	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
81/82	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	4	*
79/80	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	9	*
77/78	.5	.8	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	41	.2
75/76	2.0	3.8	2.9	.9	.2	.0	.0	.0	.0	.0	.0	.1	164	.9
73/74	5.4	13.1	11.5	3.9	1.1	.1	.0	.0	.0	.1	.3	1.2	608	3.2
71/72	18.6	23.6	21.9	12.1	2.4	.2	.1	.0	.1	.4	.9	5.1	1408	7.5
69/70	26.3	28.1	25.0	19.4	8.3	1.2	.3	.0	.5	.7	3.8	18.9	2151	11.5
67/68	22.6	17.2	19.5	25.4	14.4	6.0	.6	.6	1.2	2.9	10.3	23.2	2308	12.3
65/66	12.8	6.6	11.2	17.7	20.2	10.6	4.5	2.9	5.4	9.5	19.5	23.2	2274	12.1
63/64	7.9	4.3	4.9	13.0	26.8	23.4	11.6	8.6	16.5	21.9	26.6	15.1	2801	15.0
61/62	2.7	1.5	1.5	4.6	13.4	22.7	18.5	18.8	19.9	24.8	17.5	7.9	2337	12.5
59/60	.6	.2	.3	1.9	7.8	19.8	27.7	28.4	22.9	20.7	12.8	4.3	2205	11.8
57/58	.2	.4	.1	.6	3.3	8.6	19.3	21.9	16.4	12.6	6.4	.9	1348	7.2
55/56	.1	.1	.1	.1	1.7	4.9	12.3	12.5	12.1	5.2	1.1	.1	744	4.0
53/54	.0	.0	.0	.1	.1	1.3	3.2	4.4	3.6	.8	.7	.0	209	1.1
51/52	.0	.0	.0	.0	.2	.9	1.2	1.6	1.2	.2	.2	.0	81	.4
49/50	.0	.0	.0	.0	.1	.2	.6	.2	.3	.2	.0	.0	24	.1
47/48	.0	.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	4	*
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	1661	1566	1845	1505	1560	1504	1444	1395	1521	1538	1644	1538	18721	100.0
MEAN	68.5	69.7	69.3	67.3	64.3	61.5	59.4	59.0	59.8	61.2	63.2	66.1	64.1	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1015	1012	1013	1012	1015	1012	1013	1011	1013	901
FEB	1015	1015	1013	1014	1015	1014	1013	1014	1014	976
MAR	1016	1015	1015	1016	1017	1017	1015	1015	1016	1159
APR	1019	1018	1017	1017	1018	1016	1016	1018	1017	972
MAY	1019	1020	1017	1019	1019	1019	1018	1019	1019	1017
JUN	1018	1017	1018	1019	1019	1017	1018	1018	1018	915
JUL	1018	1017	1016	1017	1018	1017	1017	1018	1017	961
AUG	1018	1018	1017	1016	1017	1016	1016	1018	1017	872
SEP	1017	1017	1015	1016	1016	1017	1015	1018	1016	839
OCT	1016	1015	1014	1014	1016	1012	1014	1015	1015	897
NOV	1013	1014	1013	1014	1013	1014	1012	1014	1013	921
DEC	1013	1014	1011	1017	1013	1013	1011	1013	1012	780
ANN	1016	1016	1015	1016	1016	1015	1015	1016	1016	11210
OBS	1290	1377	1943	962	1730	951	2049	908		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	990	996	1002	1009	1014	1017	1023	1025	1027
FEB	994	997	1003	1010	1014	1018	1023	1027	1031
MAR	990	998	1004	1011	1016	1020	1025	1029	1035
APR	991	996	1003	1013	1018	1023	1029	1032	1036
MAY	990	1000	1005	1014	1019	1024	1030	1033	1036
JUN	988	996	1003	1012	1019	1024	1030	1035	1040
JUL	984	990	1002	1012	1018	1024	1030	1033	1036
AUG	984	995	1002	1011	1018	1023	1029	1033	1038
SEP	982	992	1002	1012	1017	1021	1028	1032	1034
OCT	991	994	1000	1010	1016	1021	1026	1029	1032
NOV	990	994	1000	1008	1014	1019	1024	1027	1030
DEC	993	998	1001	1008	1013	1017	1023	1026	1030

USCOMM-NOAA-ASHEVILLE--150

Volume	Area	Name	Approximate Central Location	
1	1	Princess Charlotte Bay	14.3°S	146.2°E
	2	Cairns	17.4°S	148.1°E
	3	Cumberland Islands	20.3°S	150.3°E
	4	Rockhampton	23.3°S	152.8°E
	5	Brisbane	26.9°S	154.7°E
	6	Coffs Harbour	30.6°S	154.6°E
	7	Sydney	33.7°S	153.4°E
	8	Cape Howe NE	36.5°S	152.6°E
2	9	Melbourne SE	39.6°S	147.5°E
	10	Tasmania East	43.2°S	149.7°E
	11	Tasmania West	43.3°S	144.1°E
	12	Cape Nelson	39.4°S	141.4°E
	13	Spencer Gulf	35.4°S	137.1°E
	14	Australian Bight SE	36.5°S	132.5°E
	15	Australian Bight SW	35.5°S	127.0°E
3	16	Esperance Bay S	35.6°S	121.1°E
	17	Cape Leeuwin	34.4°S	113.8°E
	18	Perth NW	30.1°S	112.7°E
	19	Shark Bay	25.5°S	111.5°E
	20	Barrow Island	19.1°S	115.9°E
	21	Broome	16.5°S	121.4°E
	22	Cape Talbot	13.0°S	127.0°E