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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS. NORTH AMERICAN COASTAL MARINE AREAS - REVISED. ATLANTIC AND GULF COASTS. VOLUME I - REVISED. AREA 1 - BELLE ISLE STRAIT. AREA 2 - OSV BRAVO. AREA 3 - NE NEWFOUNDLAND COAST. AREA 4 - SE NEWFOUNDLAND COAST. AREA 5 - PLACENTIA BAY SOUTH. AREA 6 - CABOT STRAIT. AREA 7 - ANTICOSTI ISLAND

Naval Weather Service Command
Washington, D. C.

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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS

NORTH AMERICAN COASTAL MARINE AREAS - REVISED

ATLANTIC AND GULF COASTS

VOLUME 1

AREA 1 - BELLE ISLE STRAIT
AREA 2 - OSV BRAVO
AREA 3 - NE NEWFOUNDLAND COAST
AREA 4 - SE NEWFOUNDLAND COAST
AREA 5 - PLACENTIA BAY SOUTH
AREA 6 - CABOT STRAIT
AREA 7 - ANTICOSTI ISLAND

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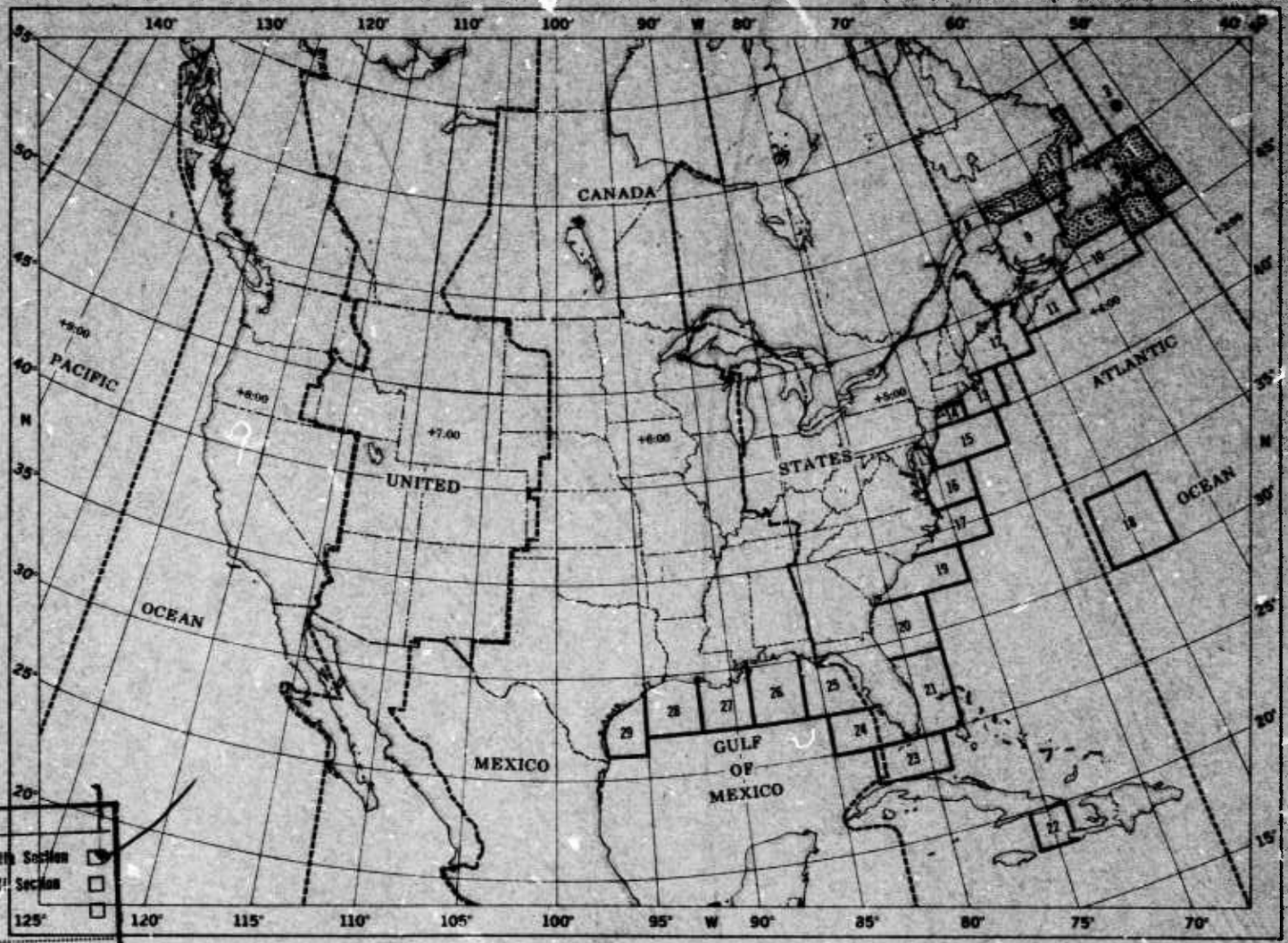

NORTH AMERICAN COASTAL MARINE SSMO AREAS AND STANDARD TIME ZONES

Shaded areas are included in this volume

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

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Prepared under the direction of the U.S. Naval Weather Service Command
by the National Climatic Center, Federal Building, Asheville, N.C. 28801.

SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

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

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 our data toward good weather samples.

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

The primary period of record is that period (extending back in time from the most recent data) during which eighty percent of the total number of observations were recorded. The overall period is the earliest to the latest observed data used in compiling the tables. Tables 18 and 19 were tabulated from 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.

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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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.

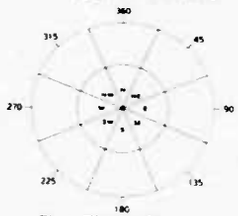

Fig 1. The 8 point direction system.

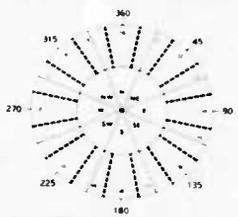

Fig 2. The 16 point direction system superimposed on the 8 point system.

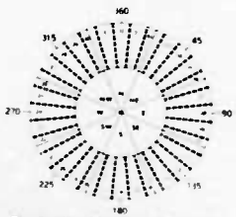

Fig 3. The 32 point direction system superimposed on the 8 point system.

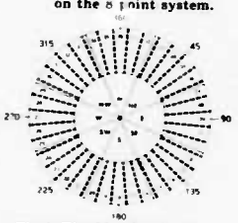

Fig 4. The 36 point direction system superimposed on the 8 point system.

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) 1964-1970
(OVER-ALL) 1882-1970

AREA 0001 BELLE ISLE STRAIT
50.4N 57.6W

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 WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.9	.0	.0	.0	23.9	.0	.0	23.9	2.2	.0	7.2	.0	.0		.0	66.7
NE	.0	6.1	.0	.0	19.7	.0	.0	19.7	.0	.0	39.4	.0	.0		.0	40.9
E	22.6	.0	.0	.0	20.8	.0	.0	43.4	.0	.0	.0	.0	.0		.0	56.6
SE	27.0	.0	.0	3.1	9.4	.0	.0	37.5	.0	.0	.0	.0	.0		.0	62.5
S	4.5	.0	.0	3.4	32.6	.0	.0	40.4	.0	.0	4.5	.0	.0		.0	55.1
SW	1.1	.0	.0	.0	28.6	.0	.0	29.7	.0	.0	4.4	.0	.0		.0	65.9
W	2.4	.0	.0	.0	33.3	.0	.0	35.7	.0	.0	2.4	.0	.0		.0	61.9
NW	.0	.0	.0	2.5	27.4	2.5	.0	32.5	3.2	.0	8.3	2.5	.0		.0	53.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	14.3	.0	.0	.0	14.3	.0	.0	28.6	.0	.0	.0	.0	.0		.0	71.4
TOT PCT	4.6	.5	.0	1.0	26.2	.5	.0	31.8	1.0	.0	7.7	.5	.0		.0	59.0
TOT OBS:	195															

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 WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00203	5.3	.0	.0	1.8	35.1	.0	.0	42.1	.0	.0	3.5	.0	.0		.0	54.4
06209	.0	.0	.0	.0	21.7	4.3	.0	26.1	4.3	.0	.0	.0	.0		.0	69.6
12215	5.3	.0	.0	1.8	22.8	.0	.0	29.8	1.8	.0	10.5	.0	.0		.0	57.9
18221	4.8	1.6	.0	.0	25.8	.0	.0	29.0	.0	.0	11.3	1.6	.0		.0	58.1
TOT PCT	4.5	.5	.0	1.0	27.1	.5	.0	32.7	1.0	.0	7.5	.5	.0		.0	58.3
TOT OBS:	199															

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	.0	3.1	8.5	5.6	.4	.0		17.5	18.8	17.7	21.9	19.6	19.4	20.2	12.5	13.0	19.6
NE	.0	.7	2.9	1.5	.7	1.0		8.2	30.1	7.9	12.5	8.9	.0	9.0	16.7	4.7	10.7
E	.0	.5	2.2	2.5	1.4	.0		6.6	23.6	6.7	12.5	14.3	.0	4.3	.0	9.7	12.5
SE	.0	1.5	1.7	.1	1.1	.0		4.5	17.3	3.7	3.1	.0	11.1	8.3	.0	4.7	8.9
S	.0	4.0	3.4	2.1	1.4	.0		11.1	17.2	7.9	15.6	7.1	11.1	9.0	22.9	14.1	5.4
SW	.0	1.6	4.1	4.6	1.0	.0		11.3	21.4	14.6	14.1	7.1	11.1	12.2	4.3	8.3	14.3
W	.0	2.7	7.8	5.1	3.0	.5		17.2	22.2	17.1	17.2	14.3	19.4	15.4	33.3	18.2	7.1
NW	.0	5.7	10.1	3.4	1.0	.0		20.1	16.2	19.5	3.1	28.6	27.8	20.2	8.3	29.2	7.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.5							3.5	.0	4.9	.0	.0	.0	4.3	.0	2.1	14.3
TOT OBS	7	40	81	46	24	3	201		19.5	41	16	14	9	47	12	48	14
TOT PCT	3.5	19.9	40.3	22.9	11.9	1.5		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	.4	8.6	4.9	3.4	.4		17.5	18.8	18.9	19.6	18.6	14.5
NE	.5	1.2	1.2	3.1	2.1		8.2	30.1	9.2	5.4	10.6	6.0
E	.0	1.4	2.9	2.4	.0		6.6	23.6	8.3	8.7	3.4	7.3
SE	.6	2.1	.6	1.1	.0		4.5	17.3	3.5	4.3	4.2	5.6
S	.9	5.3	3.0	1.9	.0		11.1	17.2	10.1	8.7	11.9	12.1
SW	1.0	3.0	4.1	2.5	.7		11.3	21.4	14.5	8.7	11.0	9.7
W	.9	6.6	4.0	4.0	1.7		17.2	22.2	17.1	10.3	19.1	15.7
NW	1.2	10.6	6.2	2.1	.0		20.1	16.2	14.9	28.3	17.8	24.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.5						3.5	.0	3.5	.0	3.4	4.8
TOT OBS	18	78	54	41	10	201		19.5	97	23	59	62
TOT PCT	9.0	38.9	26.9	20.4	5.0		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1962-1970

AREA 0001 BELLE ISLE STRAIT
50.4N 57.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS) CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.5	.0	24.6	38.6	22.8	8.8	1.8	18.4	100.0	57
06&09	.0	.0	8.7	52.2	26.1	8.7	4.3	21.2	100.0	23
12&15	3.4	.0	20.3	37.3	23.7	13.6	1.7	20.0	100.0	59
18&21	4.8	.0	19.4	40.3	21.0	14.5	.0	19.4	100.0	62
TOT	7	0	40	81	46	24	3	19.8		201
PCT	3.5	.0	19.9	40.3	22.9	11.9	1.5		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	6.6	3.9	6.7	3.8		6.1
NE	1.7	.0	2.6	5.1		5.1
E	.5	.0	.6	6.3		7.5
SE	.0	.0	1.8	3.9		7.6
S	.0	.0	2.6	7.5		7.8
SW	1.5	.6	7.8	6.6		6.4
W	4.8	.0	5.8	3.0		5.0
NW	1.9	2.7	9.0	5.7		5.8
V&R	.0	.0	.0	.0		.0
CALM	1.8	.0	.6	1.8		4.8
TOT OBS	31	17	50	73	186	5.9
TOT PCT	18.7	7.2	30.1	44.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NM >6/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 499	500 999	1000 1999	2000 2999	3000 3999	4000 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	1.1	.4	.9	.0	2.6	2.0	1.1	.0	.0	.4	.0	11.0	
NE	.2	.8	1.2	.6	1.2	1.2	.0	.0	.4	.0	.0	1.7	
E	.5	.0	.0	1.8	2.4	.5	.6	.0	.0	.0	.0	1.7	
SE	.0	.0	.2	.8	1.4	2.9	.0	.0	.0	.3	.0		
S	.0	.0	.8	1.1	2.9	4.2	.0	.0	.0	.0	.0		
SW	.6	.0	.0	1.2	2.1	4.7	.0	.0	.0	.2	.2		
W	1.2	.0	.0	.0	2.4	4.4	.0	.0	.0	.0	.0	5.1	
NW	1.4	.0	.2	2.4	1.9	3.6	2.8	.0	.0	.0	.0	9.9	
V&R	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.6	.6	.0	.0	.0	.0	.0	1.2	1.8		
TOT OBS	8	2	9	14	30	42	7	0	1	6	50		169
TOT PCT	4.8	1.2	5.4	8.4	18.1	25.3	4.2	.0	.6	3.6	30.1		100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (HM >6/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >SOVD	• OR >0
• OR >6500	1.8	3.1	4.3	4.3	4.3	4.3	4.3	4.3
• OR >5000	1.8	3.1	4.3	4.3	4.3	4.3	4.3	4.3
• OR >3500	3.7	6.1	8.0	8.0	8.0	8.6	8.6	8.6
• OR >2000	11.7	21.5	29.4	30.7	31.9	33.7	34.4	34.4
• OR >1000	14.7	31.3	43.6	46.0	48.5	50.9	51.5	51.5
• OR >[illegible]	14.7	35.0	50.9	53.4	55.8	58.9	59.5	59.5
• OR >[illegible]	14.7	35.0	52.1	55.2	58.3	62.6	63.2	63.2
• OR >150	14.7	35.0	52.1	55.8	59.5	63.8	64.4	64.4
• OR >0	14.7	35.6	52.8	57.1	62.0	68.1	69.3	69.3
TOTAL	26	58	86	93	101	111	113	113

TOTAL NUMBER OF OBS: 183 PCT FREQ NM <5/8: 30.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.2	7.7	4.6	5.7	2.6	5.7	7.2	16.5	39.7	4.1	194

JANUARY

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1882-1970

AREA 0001 BELLE ISLE STRAIT
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TABLE P

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	.4	.1	.9	.1	.4	.0	.0	1.7	.0	.0	3.6	
<1/2	NO PCP	.5	.0	.0	.0	.5	.0	.4	1.2	.0	.0	3.1	
	TOT %	.9	.1	.9	.1	.9	.5	.4	2.8	.0	.0	6.7	
	PCP	.9	.0	.0	.5	.0	.0	1.5	.6	.0	.0	3.6	
1/2<1	NO PCP	.4	.6	.0	.0	.0	.0	.0	.5	.0	.0	1.5	
	TOT %	1.3	.6	.0	.5	.0	.0	1.5	1.2	.0	.0	5.2	
	PCP	.5	.5	.0	.0	.8	1.4	.9	.0	.0	.0	4.1	
1<2	NO PCP	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.5	1.0	.0	.0	.8	1.4	.9	.0	.0	.0	4.6	
	PCP	.4	1.0	1.0	.4	3.1	1.0	1.5	.8	.0	1.0	10.3	
2<5	NO PCP	.4	2.2	.0	.0	1.0	1.0	.0	2.1	.0	.0	6.7	
	TOT %	.8	3.2	1.0	.4	4.1	2.9	1.5	2.8	.0	1.0	17.0	
	PCP	.8	.0	1.0	.5	.4	.8	2.6	2.7	.0	.0	8.8	
5<10	NO PCP	4.8	2.1	2.1	1.2	2.4	3.7	5.0	3.5	.0	.0	24.7	
	TOT %	5.5	2.1	3.1	1.7	2.8	4.5	7.6	6.2	.0	.0	33.5	
	PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	1.0	
10+	NO PCP	7.5	1.4	1.8	1.4	2.8	3.0	5.0	6.4	.0	2.6	32.0	
	TOT %	8.4	1.4	1.8	1.4	2.8	3.0	5.0	6.6	.0	2.6	33.0	
	TOT OBS												194
	TOT PCT	17.4	8.5	6.8	4.1	11.5	11.7	18.8	19.6	.0	3.6	100.0	

TABLE Q

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	.1	.9	.0	.0	.5	.0		1.5	
	11-21	.4	.0	.5	.0	.0	.5	.4	.8	.0		2.6	
	22+	.5	.1	.4	.0	.0	.0	.0	1.5	.0		2.6	
	TOT %	.9	.1	.9	.1	.9	.5	.4	2.8	.0	.0	6.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	1.3	.1	.0	.0	.0	.0	.5	1.2	.0		3.1	
	22+	.0	.5	.0	.5	.0	.0	1.0	.0	.0		2.1	
	TOT %	1.3	.6	.0	.5	.0	.0	1.5	1.2	.0	.0	5.2	
	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	.5	.5	.0	.0	.4	.1	.5	.0	.0		2.1	
	22+	.0	.5	.0	.0	.4	1.3	.4	.0	.0		2.6	
	TOT %	.5	1.0	.0	.0	.8	1.4	.9	.0	.0	.0	4.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	
2<5	4-10	.0	.0	.0	.3	1.3	.0	.0	.5	.0		2.1	
	11-21	.0	.5	.0	.1	.9	2.1	.9	1.7	.0		6.2	
	22+	.8	2.7	1.0	.0	1.9	.3	.4	.6	.0		7.7	
	TOT %	.8	3.2	1.0	.4	4.1	2.3	1.3	2.8	.0	1.0	17.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	4-10	1.2	.5	.5	.0	.5	.5	1.5	1.9	.0		6.7	
	11-21	2.4	.0	.5	1.0	1.4	.8	2.6	2.6	.0		11.3	
	22+	1.9	1.5	2.1	.6	.9	3.2	3.5	1.7	.0		15.5	
	TOT %	5.5	2.1	3.1	1.7	2.8	4.5	7.6	6.2	.0	.0	33.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	2.6	
10+	4-10	2.1	.3	.0	.6	1.4	1.2	.8	3.0	.0		9.3	
	11-21	3.7	1.2	1.3	.6	1.0	.8	2.7	3.1	.0		14.4	
	22+	2.6	.0	.5	.1	.4	1.0	1.5	.5	.0		6.7	
	TOT %	8.4	1.4	1.8	1.4	2.8	3.0	5.0	6.6	.0	2.6	33.0	
	TOT OBS												194
	TOT PCT	17.4	8.5	6.8	4.1	11.5	11.7	18.8	19.6	.0	3.6	100.0	

JANUARY

PERIOD: (PRIMARY) 1964-1970
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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	4.9	.0	.0	9.8	24.4	17.1	.0	.0	.0	9.8	65.9	34.1	41
06&09	10.0	.0	5.0	.0	20.0	15.0	5.0	.0	.0	.0	55.0	45.0	20
12&15	1.9	3.8	.0	7.7	23.1	34.6	3.8	.0	1.9	.0	76.9	23.1	52
18&21	5.3	.0	8.8	10.5	7.0	28.1	7.0	.0	.0	3.5	70.2	29.8	57
TOT	8	2	6	14	30	44	7	0	1	6	118	52	170
PCT	4.7	1.2	3.5	8.2	17.6	25.9	4.1	.0	.6	3.5	69.4	30.6	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	5.4	7.1	5.4	16.1	37.5	28.6	56
06&09	4.5	.0	4.5	.0	36.4	54.5	22
12&15	5.2	5.2	6.9	17.2	34.5	31.0	58
18&21	9.7	4.8	3.2	22.6	27.4	32.3	62
TOT	13	10	10	33	66	66	198
PCT	6.6	5.1	5.1	16.7	33.3	33.3	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	5.3	13.2	34.2	34.2	31.6	38
06&09	11.1	16.7	16.7	38.9	44.4	18
12&15	1.9	13.5	40.4	36.5	23.1	52
18&21	5.5	21.8	47.3	21.8	30.9	55
TOT	8	27	63	51	49	163
PCT	4.9	16.6	38.7	31.3	30.1	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
35/39	.0	.0	.0	.0	.0	1.8	5.3	2.6	11	9.6
30/34	.0	.0	.0	.0	.9	1.8	5.3	17.5	29	25.4
25/29	.0	.0	.0	.0	.0	3.5	6.1	5.3	17	14.9
20/24	.0	.0	.0	.0	2.6	2.6	5.3	5.3	18	15.8
15/19	.0	.0	.0	.0	.9	2.6	13.2	1.8	21	18.4
10/14	.0	.0	.0	.9	.0	3.5	3.5	4.4	14	12.3
5/9	.0	.0	.0	.0	.0	.0	1.8	.0	2	1.8
0/4	.0	.0	.0	.0	.0	.0	.0	1.8	2	1.8
TOTAL	0	0	0	1	5	18	46	44	114	100.0
PCT	.0	.0	.0	.9	4.4	15.8	40.4	38.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	2.6	5.3	.0	1.8	.0	.0	.0	.0	.0
2.2	7.7	2.4	2.4	4.6	3.7	.7	.0	.0	1.8
1.8	1.8	1.5	1.5	2.9	2.9	.9	.9	.0	.9
7.2	.2	1.5	.0	.0	2.4	2.0	.7	.0	1.8
4.2	.2	.9	.0	.0	3.9	3.5	5.7	.0	.0
4.4	.0	.0	.0	.9	.0	3.3	2.9	.0	.9
.7	.0	.0	.0	.0	.0	.9	.2	.0	.0
.0	.0	.0	.0	.0	.0	1.5	.2	.0	.0
20.4	12.5	11.6	3.9	10.1	12.9	12.7	10.5	.0	5.3

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	41	38	36	25	11	8	8	25.2	59
06&09	38	37	37	24	10	7	7	24.0	23
12&15	39	39	37	23	6	2	2	22.9	57
18&21	39	38	36	23	8	3	3	23.3	64
TOT	41	38	37	24	8	3	2	23.8	203

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	5.9	20.6	41.2	32.4	85	34
06&09	.0	6.3	.0	18.8	50.0	25.0	84	16
12&15	.0	.0	3.4	10.3	44.8	41.4	88	29
18&21	.0	.0	5.7	14.3	31.4	48.6	88	35
TOT	0	1	5	18	46	44	87	114

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PERIOD: (PRIMARY) 1964-1970
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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	05 OR	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.0	.0	.0	.8	1.6	.0	3	2.4	.0
6	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.8	4	.8	2.4
5	.0	.0	.0	.0	.0	.0	.0	1.6	.8	.0	3	.8	1.6
4	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	4	.8	2.4
3	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	4	.0	3.2
2	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	3	1.6	.8
1	.0	.0	.0	.0	.0	.0	4.0	.8	.8	.0	7	1.6	4.0
0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	1	.0	.8
-1	.0	.0	.0	.0	.0	1.6	3.2	1.6	.0	.0	8	.0	6.3
-2	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	2	.0	1.6
-3	.0	.0	.0	.0	.0	1.6	.0	.8	.0	.0	3	.0	2.4
-4	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	1	.0	.8
-5	.0	.0	.0	.0	1.6	1.6	4.0	.0	.0	.0	9	.0	7.1
-6	.0	.0	.0	.0	2.4	1.6	.8	.0	.0	.0	6	.0	4.8
-7/-8	.0	.0	.0	.0	2.4	.8	.8	.0	.0	.0	5	.0	4.0
-9/-10	.0	.0	.0	1.6	3.2	.8	.8	.0	.0	.0	8	.0	6.3
-11/-13	.0	.0	.0	10.3	3.2	.0	.0	.0	.0	.0	17	.0	13.5
-14/-16	.0	.0	4.0	6.3	2.4	.0	.0	.0	.0	.0	16	.0	12.7
-17/-19	.0	3.2	.8	.8	.0	.0	.0	.0	.0	.0	6	.0	4.8
-20/-22	.0	5.6	3.2	.0	.0	.0	.0	.0	.0	.0	11	.0	8.7
-23/-25	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	1.6
-26/-30	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	1.6	.8
TOTAL	4		10		19		22		7			12	114
		12		24		11		16		1	126		
PCT	3.2	9.5	7.9	19.0	15.1	8.7	17.5	12.7	5.6	.8	100.0	9.5	90.5

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	.0	.0	.0	.0	.0	.0
1-2	.0	1.9	.0	.0	.0	.0	1.9
3-4	.0	.0	.0	1.9	.0	.0	1.9
5-6	.0	.0	1.4	3.8	.0	.0	5.3
7	.0	.0	1.4	.0	.0	.0	1.4
8-9	.0	.0	.0	3.4	.0	.0	3.4
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	1.9	2.9	9.1	.0	.0	13.9

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	1.9	.0	.0	.0	1.9
5-6	.0	.0	.0	3.8	1.9	.0	5.8
7	.0	.0	.0	.0	3.8	.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	.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
TOT PCT	.0	1.9	1.9	3.8	6.3	.0	12.0

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	.0	1.4	.0	.0	.0	1.4
3-4	.0	.0	1.9	.0	.0	.0	1.9
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	1.9	1.4	.0	3.4
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	.0	3.4	1.9	1.4	.0	6.7

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	.0	2.4	.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	2.4	.0	2.4
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	2.4	.0	2.4	.0	5.3

PERIOD: (OVER-ALL) 1963-1970 — AREA 0001 BELLE ISLE STRAIT 50.4N 57.6W

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	3.4	.0	.0	.0	.0	3.4	.0	.0	1.9	.0	.0	.0	1.9
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	1.9
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.9	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	2.9	6.3	.0	.0	9.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	1.4	.0	1.4	.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	1.9	.0	.0	1.9
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	1.4	.0	8.2	.0	.0	6.7	8.2	.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	.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	.5	1.9	.0	.0	.0	2.4	
3-4	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	.5	.0	.0	.0	.5	
5-6	.0	.0	1.4	1.9	.0	.0	3.4	.0	.0	2.9	.0	.0	.0	2.9	
7	.0	.0	1.4	3.4	.0	.0	4.8	.0	.0	4.3	.0	.0	.0	4.3	
8-9	.0	.0	1.9	1.9	.0	.0	3.8	.0	.0	.0	.5	.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	1.9	.0	1.9	
17-19	.0	.0	.0	.0	.0	1.9	1.9	.0	.0	.0	1.9	.0	.0	1.9	
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	6.3	7.2	.0	1.9	16.8	.0	.5	9.6	2.4	1.9	.0	14.4	92.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.7	3.8	1.9	.0	.0	.0	13.5	
1-2	.0	3.8	7.7	.0	.0	.0	11.5	
3-4	.0	.0	5.8	1.9	.0	.0	7.7	
5-6	.0	.0	7.7	9.6	1.9	.0	19.2	
7	.0	.0	11.5	9.6	3.8	.0	25.0	
8-9	.0	.0	1.9	5.8	.0	.0	7.7	
10-11	.0	.0	.0	.0	3.8	.0	3.8	
12	.0	.0	.0	1.9	1.9	.0	3.8	
13-16	.0	.0	.0	.0	1.9	.0	1.9	
17-19	.0	.0	.0	1.9	.0	1.9	3.8	
20-22	.0	.0	.0	1.9	.0	.0	1.9	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	7.7	36.5	32.7	13.5	1.9	100.0	52

PERIOD: (OVER-ALL) 1954-1970

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	3.3	8.3	8.3	5.0	18.3	3.3	3.3	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	5
6-7	.0	.0	.0	6.7	10.0	3.3	.0	3.3	1.7	1.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	17	9
8-9	.0	.0	1.7	1.7	.0	1.7	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
10-11	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	9
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	
INDEF	6.7	.0	.0	.0	.0	.0	1.7	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	4
TOTAL	6	5	7	8	17	5	3	4	2	2	1	0	0	0	0	0	0	0	0	60	6
PCT	10.0	8.3	11.7	13.3	28.3	8.3	5.0	6.7	3.3	3.3	1.7	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1903-1970

AREA 0001 BELLE ISLE STRAIT
50.2N 58.0W

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	8.7	.0	.0	8.7	.0	.0	13.0	.0	.0		.0	78.3
NE	.0	.0	.0	.0	28.3	.0	.0	28.3	.0	.0	8.3	.0	.0		.0	63.3
E	8.7	.0	.0	8.7	23.9	.0	.0	41.3	.0	.0	6.5	.0	.0		.0	52.2
SE	10.3	.0	.0	.0	3.4	.0	.0	13.8	.0	.0	3.4	.0	.0		.0	82.8
S	13.2	10.5	.0	.0	36.8	.0	.0	60.5	7.9	.0	.0	.0	.0		.0	31.6
SW	.0	.0	.0	.0	67.5	.0	.0	67.5	1.3	.0	10.4	.0	.0		.0	20.8
W	.0	.0	.0	.0	21.1	10.5	.0	31.6	.0	.0	5.3	.0	.0		.0	63.2
NW	.0	.0	.0	.0	20.8	.0	.0	20.8	.0	.0	20.8	.0	.0		.0	58.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	50.0	.0	.0	50.0	.0	.0	.0	.0	.0		.0	50.0
TOT PCT	3.0	1.0	.0	1.0	30.7	2.0	.0	37.6	1.0	.0	7.9	.0	.0		.0	53.5
TOT OBS:	101															

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	.0	.0	.0	3.8	46.2	.0	.0	50.0	.0	.0	3.8	.0	.0		.0	46.2
06&09	25.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	.0		.0	75.0
12&15	6.1	.0	.0	.0	24.2	.0	.0	30.3	3.0	.0	15.2	.0	.0		.0	51.5
18&21	.0	2.6	.0	.0	30.8	5.1	.0	38.5	.0	.0	5.1	.0	.0		.0	56.4
TOT PCT	2.9	1.0	.0	1.0	31.4	2.0	.0	38.2	1.0	.0	7.8	.0	.0		.0	52.9
TOT OBS:	102															

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	2.7	2.5	6.6	.9	.0		13.2	21.7	15.3	11.1	18.8	.0	4.4	13.2	14.6	18.1
NE	.5	1.1	2.5	5.0	4.5	.0		13.6	26.0	15.3	13.9	25.0	.0	8.8	10.5	19.8	9.7
E	.0	4.1	3.9	.7	1.8	.0		10.5	18.6	9.7	30.6	.0	.0	10.3	9.2	7.3	9.7
SE	.0	2.5	1.8	2.3	.0	.0		6.6	15.6	1.4	.0	12.5	.0	7.4	6.6	8.3	11.1
S	1.8	3.0	3.4	.5	.0	.0		8.6	11.0	9.7	.0	12.5	.0	8.8	9.2	12.5	5.6
SW	.0	2.3	4.8	5.5	5.9	.0		18.4	26.5	23.6	16.7	.0	.0	22.1	19.7	12.5	22.2
W	.0	4.3	9.8	.9	3.0	.0		18.2	17.8	13.9	16.7	.0	100.0	27.9	26.0	12.5	13.9
NW	.0	.7	3.2	4.1	1.1	.0		9.1	23.4	11.1	.0	31.3	.0	4.4	6.6	12.5	9.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	.0	11.1	.0	.0	5.9	.0	.0	.0
TOT OBS	5	23	35	28	19	0	110		20.6	18	9	4	1	17	19	24	18
TOT PCT	4.5	20.9	31.8	25.5	17.3	.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	2.3	1.6	3.6	5.7	.0		13.2	21.7	13.9	15.0	9.0	16.1
NE	1.6	.9	4.5	6.6	.0		13.6	26.0	14.8	20.0	9.7	15.5
E	1.6	2.5	4.5	.9	.9		10.5	18.6	16.7	.0	9.7	8.3
SE	2.0	1.4	1.4	1.8	.0		6.6	15.6	.9	10.0	6.9	9.5
S	3.2	2.5	3.0	.0	.0		8.6	11.0	6.5	10.0	9.0	9.5
SW	1.4	2.5	4.1	9.1	1.4		18.4	26.5	21.3	.0	20.8	16.7
W	1.4	11.4	2.5	1.1	1.8		18.2	17.8	14.8	20.0	26.4	13.1
NW	.2	2.7	1.8	3.9	.5		9.1	23.4	7.4	25.0	5.6	11.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	3.7	.0	2.8	.0
TOT OBS	17	28	28	32	5	110		20.6	27	5	36	42
TOT PCT	15.5	25.5	25.5	29.1	4.5		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1903-1970

AREA 0001 BELLE ISLE STRAIT
50.2N 58.0W

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	3.7	3.7	14.8	29.6	29.6	18.5	.0	22.0	100.0	27
06&09	.0	.0	20.0	.0	80.0	.0	.0	23.8	100.0	5
12&15	2.8	.0	27.8	36.1	19.4	13.9	.0	19.0	100.0	36
18&21	.0	4.8	19.0	33.3	21.4	21.4	.0	20.5	100.0	42
TOT	2	3	23	35	28	19	0	20.6		110
PCT	1.8	2.7	20.9	31.8	25.5	17.3	.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	1.0	1.0	1.0	7.2		6.7
NE	4.4	.0	1.3	9.8		6.0
E	.8	.0	1.8	9.3		7.3
SE	2.1	3.1	1.0	1.3		4.1
S	1.0	.0	.8	5.9		7.0
SW	1.3	.0	3.9	13.7		7.1
W	8.2	1.5	4.6	5.2		4.4
NW	.8	2.6	.0	3.4		5.3
VAR	.0	.0	.0	.0		.0
CALM	1.0	.0	.0	1.0		5.0
TOT OBS	20	8	14	55	97	6.0
TOT PCT	20.6	8.2	14.4	56.7	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	2.6	.0	.0	.0	4.1	1.0	.0	.0	.0	.0	2.6	
NE	3.6	.0	.0	2.1	.3	1.3	.0	.0	.0	1.0	7.2	
E	.8	.0	.0	1.0	.8	3.9	.8	.0	1.0	1.0	2.6	
SE	.0	.0	.0	.3	.0	.5	.5	.0	.0	.0	6.2	
S	1.0	.0	.0	.8	.8	.5	1.8	1.0	.0	.0	1.8	
SW	1.3	.3	2.3	3.4	3.9	5.2	1.0	.0	.0	.0	1.5	
W	1.8	.8	.8	1.8	1.5	.0	.0	.0	1.0	.0	11.9	
NW	.3	.0	1.0	.0	1.0	1.0	.0	.0	.0	.0	3.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
TOT OBS	12	1	4	9	12	13	4	1	2	2	37	97
TOT PCT	12.4	1.0	4.1	9.3	12.4	13.4	4.1	1.0	2.1	2.1	38.1	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	3.1	4.2	4.2	4.2	4.2	4.2	4.2
* OR >5000	.0	4.2	5.2	5.2	5.2	5.2	5.2	5.2
* OR >3500	.0	4.2	9.4	9.4	9.4	9.4	9.4	9.4
* OR >2000	.0	11.5	20.8	22.9	22.9	22.9	22.9	22.9
* OR >1000	3.1	19.8	29.2	32.3	33.3	34.4	34.4	34.4
* OR >600	3.1	24.0	37.5	41.7	42.7	43.8	43.8	43.8
* OR >300	3.1	25.0	40.6	45.8	46.9	47.9	47.9	47.9
* OR >150	3.1	25.0	40.6	45.8	47.9	49.0	49.0	49.0
* OR > 1	3.1	25.0	41.7	49.0	56.3	59.4	61.5	61.5
TOTAL	3	24	40	47	54	57	59	59

TOTAL NUMBER OF OBS: 96 PCT FREQ NH <5/8: 38.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.1	11.1	12.1	3.0	1.0	3.0	4.0	2.0	41.4	12.1	99

FEBRUARY

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1903-1970

AREA 0001 BELLE ISLE STRAIT
50.2N 58.0W

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	1.0	2.0	.0	.0	.0	1.0	.0	.0	.0	.0	4.0	
<1/2	NO PCP	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	1.7	2.2	.0	.0	.0	1.0	.0	.0	.0	.0	5.0	
	PCP	.0	1.2	.7	.0	.0	1.2	1.7	.0	.0	.0	5.0	
1/2<1	NO PCP	.7	.0	.0	.0	.0	1.0	.0	.2	.0	.0	2.0	
	TOT %	.7	1.2	.7	.0	.0	2.1	1.7	.2	.0	.0	6.9	
	PCP	.0	1.0	1.0	.0	1.7	1.0	.7	1.0	.0	.0	6.9	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	1.0	1.0	.0	1.7	1.0	.7	1.0	.0	.0	6.9	
	PCP	.0	.0	3.0	1.0	4.0	5.0	.7	.2	.0	1.0	14.9	
2<5	NO PCP	1.7	1.0	.7	.2	.7	1.2	.0	1.2	.0	.0	6.9	
	TOT %	1.7	1.0	3.7	1.2	4.7	6.2	.7	1.5	.0	1.0	21.8	
	PCP	.0	.0	.0	.0	.0	4.2	2.7	.0	.0	.0	6.9	
5<10	NO PCP	5.4	6.2	5.2	4.0	2.0	1.7	4.7	.5	.0	1.0	30.7	
	TOT %	5.4	6.2	5.2	4.0	2.0	5.9	7.4	.5	.0	1.0	37.6	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10+	NO PCP	1.7	3.2	.7	2.0	1.0	2.2	8.2	2.7	.0	.0	21.8	
	TOT %	1.7	3.2	.7	2.0	1.0	2.2	8.2	2.7	.0	.0	21.8	
	TOT OBS												101
	TOT PCT	11.4	14.9	11.4	7.2	9.4	19.1	18.8	5.9	.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
	0-3	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
<1/2	4-10	.5	.5	.0	.0	.0	.0	.0	.0	.0		1.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.7	1.2	.0	.0	.0	1.0	.0	.0	.0		2.9	
	TOT %	1.7	2.1	.0	.0	.0	1.0	.0	.0	.0	.0	4.8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	1.0	.0	.0		1.0	
	11-21	.7	.2	.7	.0	.0	1.2	.7	.2	.0		3.8	
	22+	.0	1.0	.0	.0	.0	1.0	.0	.0	.0		1.9	
	TOT %	.7	1.2	.7	.0	.0	2.1	1.7	.2	.0	.0	6.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	1.0	1.0	.0	.0	.0		1.9	
	11-21	.0	.0	1.0	.0	.7	.2	.0	.0	.0		1.9	
	22+	.0	1.0	.0	.0	.0	1.2	.7	1.0	.0		3.8	
	TOT %	.0	1.0	1.0	.0	1.7	2.4	.7	1.0	.0	.0	7.6	
	0-3	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0	1.9	
2<5	4-10	.0	.0	2.6	.7	2.1	1.2	.0	.0	.0		6.7	
	11-21	.0	.0	1.0	.0	1.0	1.0	.0	.0	.0		2.9	
	22+	1.7	1.0	.0	.5	.5	3.8	1.2	1.9	.0		10.5	
	TOT %	1.7	1.0	3.6	1.2	4.5	6.0	1.2	1.9	.0	1.0	21.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	
5<10	4-10	1.4	.7	1.7	1.0	.0	.2	2.1	.5	.0		7.6	
	11-21	1.0	2.1	.7	1.0	1.9	.7	5.0	.0	.0		12.4	
	22+	2.9	3.1	2.6	1.9	.0	4.8	.5	.5	.0		16.2	
	TOT %	5.2	6.0	5.0	3.8	1.9	5.7	7.6	1.0	.0	1.0	37.1	
	0-3	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.0	
10+	4-10	1.0	.0	.0	1.0	.0	.0	1.7	.2	.0		3.8	
	11-21	.5	.2	.7	1.0	.0	1.9	4.5	2.6	.0		11.4	
	22+	.7	2.9	.0	.0	.0	.2	1.7	.2	.0		5.7	
	TOT %	2.1	3.1	.7	1.9	1.0	2.1	7.9	3.1	.0	.0	21.9	
	TOT OBS												105
	TOT PCT	11.4	14.3	11.0	6.9	9.0	19.3	19.0	7.1	.0	1.9	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1903-1970

AREA 0001 BELLE ISLE STRAIT
50.2N 58.0W

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	20.8	.0	4.2	8.3	8.3	25.0	4.2	.0	4.2	.0	75.0	25.0	24
06&09	.0	.0	.0	.0	.0	33.3	.0	.0	33.3	.0	66.7	33.3	3
12&15	6.5	3.2	6.5	12.9	9.7	9.7	3.2	3.2	.0	.0	54.8	45.2	31
18&21	12.8	.0	2.6	7.7	17.9	7.7	5.1	.0	.0	5.1	59.0	41.0	39
TOT	12	1	4	9	12	13	4	1	2	2	60	37	97
PCT	12.4	1.0	4.1	9.3	12.4	13.4	4.1	1.0	2.1	2.1	61.9	38.1	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	11.1	7.4	3.7	22.2	40.7	14.8	27
06&09	.0	.0	.0	50.0	25.0	25.0	4
12&15	5.7	2.9	11.4	28.6	25.7	25.7	35
18&21	2.5	10.0	7.5	12.5	45.0	22.5	40
TOT	6	7	8	23	39	23	106
PCT	5.7	6.6	7.5	21.7	36.8	21.7	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	20.8	29.2	58.3	20.8	20.8	24
06&09	.0	.0	33.3	33.3	33.3	3
12&15	6.5	16.1	48.4	12.9	38.7	31
18&21	13.2	18.4	34.2	23.7	42.1	38
TOT	12	19	43	19	34	96
PCT	12.5	19.8	44.8	19.8	35.4	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
45/49	.0	.0	.0	.0	1.1	1.1	.0	.0	2	2.2
40/44	.0	.0	.0	.0	.0	1.1	.0	1.1	2	2.2
35/39	.0	.0	.0	.0	.0	.0	.0	3.3	3	3.3
30/34	.0	.0	.0	.0	3.3	2.2	5.6	11.1	20	22.2
25/29	.0	.0	.0	.0	.0	2.2	3.3	11.1	15	16.7
20/24	.0	.0	.0	.0	.0	1.1	11.1	8.9	19	21.1
15/19	.0	.0	.0	.0	.0	3.3	5.6	4.4	12	13.3
10/14	.0	.0	.0	.0	2.2	2.2	4.4	1.1	9	10.0
5/9	.0	.0	.0	.0	.0	2.2	2.2	2.2	6	6.7
-1/-4	.0	.0	.0	.0	.0	.0	2.2	.0	2	2.2
TOTAL	0	0	0	0	4	14	31	39	90	100.0
PCT	.0	.0	.0	.0	4.4	15.6	34.4	43.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	1.1	1.1	.0	.0	.0	.0	.0
.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0
.0	.0	1.1	.3	.8	1.1	.0	.0	.0	.0
4.2	3.9	5.0	2.2	.8	.3	5.6	.3	.0	.0
.0	5.0	1.7	1.1	1.1	3.9	2.2	.6	.0	1.1
1.9	1.7	1.7	.6	1.9	8.6	3.3	.3	.0	1.1
.6	1.7	1.1	.0	1.9	3.1	3.3	1.7	.0	.0
1.1	3.3	.0	1.1	.0	.0	3.3	1.1	.0	.0
1.1	1.1	1.1	1.1	.0	2.2	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	1.1	1.1	.0	.0
8.9	16.7	12.8	7.5	7.8	20.3	18.9	5.0	.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	42	41	41	26	8	5	5	23.9	27
06&09	38	37	37	31	22	22	22	30.4	5
12&15	53	52	43	24	-1	-7	-7	25.6	36
18&21	54	53	45	26	9	-1	-1	24.9	42
TOT	54	53	43	26	8	-7	-7	25.1	110

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	.0	13.0	30.4	56.5	89	23
06&09	.0	.0	.0	.0	.0	100.0	100	1
12&15	.0	.0	3.3	10.0	40.0	46.7	88	30
18&21	.0	.0	13.9	22.2	33.3	30.6	83	34
TOT	0	0	6	14	31	39	86	90

FEBRUARY

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1903-1970

AREA 0001 BELLE ISLE STRAIT
50.2N 58.0W

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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	1	.0	1.8
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	1.8	2	.0	3.5
4	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	1	.0	1.8
3	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	1.8	.0	2	1.8	1.8
2	.0	.0	.0	.0	.0	.0	.0	5.3	5.3	.0	.0	.0	6	1.8	8.8
1	.0	.0	.0	.0	.0	.0	.0	5.3	.0	.0	.0	.0	3	1.8	3.5
0	.0	.0	.0	.0	.0	.0	.0	5.3	1.8	.0	.0	.0	4	1.8	5.3
-1	.0	.0	.0	.0	.0	.0	.0	7.0	.0	.0	.0	.0	4	.0	7.0
-2	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	1	.0	1.8
-3	.0	.0	.0	.0	.0	.0	.0	7.0	.0	.0	.0	.0	4	.0	7.0
-4	.0	.0	.0	.0	.0	.0	1.8	.0	1.8	.0	.0	.0	2	.0	3.5
-6	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	1	.0	1.8
-7/-8	.0	.0	.0	.0	1.8	5.3	.0	.0	.0	.0	.0	.0	4	.0	7.0
-9/-10	.0	.0	.0	.0	10.5	.0	3.5	.0	.0	.0	.0	.0	8	.0	14.0
-11/-13	.0	.0	.0	.0	3.5	.0	1.8	.0	.0	.0	.0	.0	3	.0	5.3
-14/-16	.0	.0	.0	7.0	.0	3.5	.0	.0	.0	.0	.0	.0	6	.0	10.5
-17/-19	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	1.8
-20/-22	.0	1.8	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	3.5
-23/-25	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	1.8
<-30	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	1.8
TOTAL	1	2	2	4	9	5	5	19	6	1	1	2	57	4	53
PCT	1.8	3.5	3.5	7.0	15.8	8.8	8.8	33.3	10.5	1.8	1.8	3.5	100.0	7.0	93.0

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	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.5	.0	.0	.0	.0	4.5
3-4	.0	.0	.0	.0	.0	.0	.0
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	4.5	.0	.0	4.5
13-16	.0	.0	.0	3.4	.0	.0	3.4
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	.0	4.5	4.5	8.0	.0	.0	17.0

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	9.1	4.5	.0	13.6
7	.0	.0	1.1	9.1	.0	.0	10.2
8-9	.0	.0	.0	4.5	.0	.0	4.5
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	.0	.0	1.1	22.7	4.5	.0	28.4

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	.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	3.4	.0	4.5	.0	8.0
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	3.4	.0	4.5	.0	8.0

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	.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

PERIOD: (OVER-ALL) 1963-1970 FEBRUARY AREA 0001 BELLE ISLE STRAIT

TABLE 18 (CONT) 50.2N 58.0W

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	.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	5.7	.0	5.7
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	1.1	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.1	.0	9.1
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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.9	.0	15.9

	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	.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	3.4	.0	.0	.0	3.4	.0	.0	1.1	.0	.0	.0	1.1	
5-6	.0	.0	.0	.0	3.4	.0	3.4	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0	.0	4.5	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0	.0	4.5	
10-11	.0	.0	.0	.0	3.4	.0	3.4	.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	10.2	.0	.0	10.2	
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	.0	.0	3.4	.0	6.8	.0	10.2	.0	.0	1.1	19.3	.0	.0	20.5	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	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	4.5	.0	.0	.0	.0	4.5	
3-4	.0	.0	4.5	.0	.0	.0	4.5	
5-6	.0	.0	4.5	9.1	13.6	.0	27.3	
7	.0	.0	4.5	13.6	4.5	.0	22.7	
8-9	.0	.0	.0	9.1	.0	.0	9.1	
10-11	.0	.0	.0	.0	4.5	.0	4.5	
12	.0	.0	.0	4.5	9.1	.0	13.6	
13-16	.0	.0	.0	13.6	.0	.0	13.6	
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	
								22
TOT PCT	.0	4.5	13.6	50.0	31.8	.0	100.0	

PERIOD: (OVER-ALL) 1955-1970 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	7.7	7.7	.0	3.8	15.4	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	6
6-7	.0	.0	.0	26.9	.0	.0	3.8	7.7	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	7
8-9	.0	.0	.0	.0	3.8	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
10-11	.0	.0	.0	.0	.0	3.8	.0	.0	7.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	13
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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
TOTAL	0	2	2	7	2	5	1	3	4	0	0	0	0	0	0	0	0	0	0	26	R
PCT	.0	7.7	7.7	26.9	7.7	19.2	3.8	11.5	15.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1963-1970
(OVER-ALL) 1928-1970

AREA 0001 BELLE ISLE STRAIT
50.6N 57.4W

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	29.5	.0	.0	29.5	.0	.0	3.2	.0	.0	.0	.0	67.4
NE	.0	.0	6.2	.0	38.5	.0	.0	44.6	.0	.0	.0	.0	.0	.0	.0	55.4
E	.0	.0	.0	.0	46.3	.0	.0	46.3	.0	.0	.0	.0	.0	.0	.0	53.7
SE	21.1	.0	.0	.0	21.1	.0	.0	42.1	.0	.0	21.1	.0	.0	.0	.0	36.8
S	.0	.0	.0	.0	7.4	.0	.0	7.4	.0	.0	16.7	.0	.0	.0	.0	75.9
SW	.0	.0	.0	.0	23.5	.0	.0	23.5	.0	.0	12.9	.0	.0	.0	.0	63.5
W	.0	.0	.0	.0	34.8	.0	.0	34.8	5.8	.0	10.1	.0	.0	5.8	.0	43.5
NW	.0	.0	.0	.0	34.1	.0	.0	34.1	.0	.0	3.4	.0	.0	.0	.0	62.5
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	.7	.0	.7	.0	30.3	.0	.0	31.6	.7	.0	6.6	.0	.0	.7	.0	60.5
TOT OBS:	152															

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	.0	.0	.0	.0	33.3	.0	.0	33.3	.0	.0	4.4	.0	.0	2.2	.0	60.0
06&09	.0	.0	.0	.0	14.3	.0	.0	14.3	.0	.0	.0	.0	.0	.0	.0	85.7
12&15	2.0	.0	2.0	.0	27.5	.0	.0	31.4	2.0	.0	7.8	.0	.0	.0	.0	58.8
18&21	.0	.0	.0	.0	32.7	.0	.0	32.7	.0	.0	8.2	.0	.0	.0	.0	59.2
TOT PCT	.7	.0	.7	.0	30.3	.0	.0	31.6	.7	.0	6.6	.0	.0	.7	.0	60.5
TOT OBS:	152															

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	4.0	8.6	2.2	1.8	1.4		15.9	21.8	21.6	10.3	11.1	.0	16.9	25.0	8.9	13.1
NE	.0	1.0	3.6	4.0	1.9	.0		10.4	24.5	14.7	19.1	22.2	.0	10.5	2.4	.0	14.3
E	.0	3.5	3.0	1.3	.0	.0		7.9	14.1	12.1	4.4	22.2	.0	12.9	.0	7.1	.0
SE	.0	.0	2.4	.0	.6	.0		3.0	20.8	1.7	1.5	.0	.0	3.2	4.8	7.1	.0
S	.0	2.4	5.0	1.3	.0	.0		8.7	14.4	9.5	8.8	11.1	.0	2.4	9.5	9.8	13.1
SW	1.9	2.2	5.6	3.2	.6	.0		13.6	16.0	13.8	13.2	11.1	.0	13.7	14.3	8.9	20.2
W	.0	2.7	4.0	3.7	.6	.0		11.1	18.3	2.6	13.2	11.1	.0	2.4	16.7	25.9	8.3
NW	.0	4.6	9.8	7.4	5.9	1.1		28.8	24.0	24.1	29.4	11.1	.0	36.7	27.6	32.1	31.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6							.6	.0	.0	.0	.0	.0	3.2	.0	.0	.0
TOT OBS	5	32	61	36	18	4	156		20.1	29	17	9	0	31	21	28	21
TOT PCT	3.2	20.5	39.1	23.1	11.5	2.6		100.0		100.0	100.0	100.0	.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	4.5	5.4	2.2	1.9		15.9	21.8	17.4	11.1	20.2	10.7
NE	.2	.8	5.4	4.0	.0		10.4	24.5	16.3	22.2	7.2	6.1
E	1.8	3.5	1.3	1.3	.0		7.9	14.1	9.2	22.2	7.7	4.1
SE	.0	2.4	.0	.0	.6		3.0	20.8	1.6	.0	3.8	4.1
S	.6	5.3	2.7	.0	.0		8.7	14.4	9.2	11.1	5.3	11.2
SW	4.0	2.7	6.3	.0	.6		13.6	16.0	13.6	11.1	13.9	13.8
W	1.6	3.8	3.0	2.6	.0		11.1	18.3	6.5	11.1	8.2	18.4
NW	.3	7.7	9.8	7.9	3.2		28.8	24.0	26.1	11.1	31.7	31.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.6						.6	.0	.0	.0	1.9	.0
TOT OBS	17	48	53	28	10	156		20.1	46	9	52	49
TOT PCT	10.9	30.8	34.0	17.9	6.4		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1965-1970
(OVER-ALL) 1928-1970

AREA 0001 BELLE ISLE STRAIT
50.6N 57.4W

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	.0	2.2	17.4	39.1	23.9	13.0	4.3	22.0	100.0	46
06&09	.0	.0	33.3	33.3	33.3	.0	.0	16.2	100.0	9
12&15	1.9	3.8	17.3	38.5	26.9	9.6	1.9	19.8	100.0	52
18&21	.0	2.0	24.5	40.8	16.3	14.3	2.0	19.5	100.0	49
TOT	1	4	32	61	36	18	4	20.1		156
PCT	.6	2.6	20.5	39.1	23.1	11.5	2.6		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	4.4	1.7	2.0	7.4		5.2
NE	3.5	1.3	.8	5.6		4.9
E	.7	.5	1.2	5.2		6.9
SE	.2	.0	.7	2.3		7.3
S	2.9	.0	.3	5.9		5.5
SW	3.9	.7	3.0	6.0		5.4
W	.5	.5	6.0	3.9		6.4
NW	6.2	.5	4.7	17.3		6.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.7	.0		7.0
TOT OBS	33	8	20	79	149	5.8
TOT PCT	22.1	5.4	19.5	53.0	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	2.3	1.7	.0	1.0	.0	1.7	.0	.0	.0	.0	8.7	
NE	4.0	.0	.0	.7	.0	.8	.0	.0	.0	.0	5.7	
E	.7	.0	1.3	.7	.7	1.2	.0	.0	.5	.7	1.8	
SE	.7	.0	.0	.0	1.3	.0	.0	.7	.3	.0	.2	
S	.7	.0	.7	.0	2.7	1.0	.0	.0	1.2	.0	2.9	
SW	.7	.0	.0	2.0	2.0	1.0	.0	.0	.0	.0	7.9	
W	1.5	.0	.0	1.2	4.2	.0	1.7	.0	.7	.0	1.7	
NW	2.2	2.3	1.3	4.3	5.2	1.3	.3	.0	2.0	.0	9.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	
TOT OBS	19	4	5	15	24	10	4	1	7	1	57	149
TOT PCT	12.8	4.0	3.4	10.1	16.1	6.7	2.7	.7	4.7	.7	38.3	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	2.0	4.7	4.7	4.7	5.4	5.4	5.4	5.4
≥ OR >5000	2.0	4.7	5.4	5.4	6.1	6.1	6.1	6.1
≥ OR >3500	4.1	7.4	8.1	8.1	8.8	8.8	8.8	8.8
≥ OR >2000	5.4	12.8	14.2	14.2	15.5	15.5	15.5	15.5
≥ OR >1000	10.1	20.3	27.0	27.0	30.4	31.1	31.8	31.8
≥ OR >600	12.8	25.7	33.8	35.8	39.9	40.5	41.9	41.9
≥ OR >300	12.8	27.7	36.5	39.2	43.2	43.9	45.3	45.3
≥ OR >150	12.8	29.7	39.9	42.6	47.3	48.0	49.3	49.3
≥ OR > 0	12.8	29.7	41.2	44.6	52.0	56.8	62.2	62.2
TOTAL	19	44	61	66	77	84	92	92

TOTAL NUMBER OF OBS: 148 PCT FREQ NH <5/8: 57.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
23.5	3.3	6.5	2.6	2.0	5.2	10.5	3.9	30.1	12.4	153

MARCH

PERIOD: (PRIMARY) 1956-1970
(OVER-ALL) 1928-1970

AREA 0001 BELLE ISLE STRAIT
50.6N 57.6W

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	1.8	2.6	.0	.0	.0	.7	2.0	2.1	.0	.0	9.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7	
	TOT %	1.8	2.6	.0	.0	.0	.7	2.6	2.1	.0	.0	9.9	
1/2<1	PCP	.7	1.3	1.3	.7	.0	.0	.7	2.0	.0	.0	6.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.5	.2	.0	.0	.7	
	TOT %	.7	1.3	1.3	.7	.0	.0	1.2	2.1	.0	.0	7.2	
1<2	PCP	.0	.0	.0	.0	.7	1.3	.0	1.3	.0	.0	3.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.7	1.3	.0	1.3	.0	.0	3.3	
2<5	PCP	1.4	.0	.7	.7	.0	1.3	1.3	1.6	.0	.0	7.2	
	NO PCP	.5	.0	.0	.7	1.5	1.8	.0	.8	.0	.0	5.3	
	TOT %	2.1	.0	.7	1.3	1.5	3.1	1.3	2.5	.0	.0	12.5	
5<10	PCP	.5	.8	1.2	.0	.0	.0	.0	2.8	.0	.0	5.3	
	NO PCP	9.1	3.1	2.3	.8	2.3	7.7	2.8	8.1	.0	.0	32.2	
	TOT %	9.6	3.9	3.5	.8	2.3	7.7	2.8	10.9	.0	.0	37.5	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	5.4	2.8	1.3	.3	4.4	1.9	3.5	10.0	.0	.7	29.6	
	TOT %	5.4	2.8	1.3	.3	4.4	1.9	3.5	10.0	.0	.7	29.6	
	TOT OBS												152
	TOT PCT	19.6	10.7	6.7	3.1	8.9	14.0	11.3	28.9	.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	.7	.0	.0	.0	.0	.7	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.7	.0	.0	.0	.0	.0	.0	.0		.7	
	22+	1.8	2.0	.0	.0	.0	.0	2.6	2.1	.0		8.5	
	TOT %	1.8	2.6	.0	.0	.0	.7	2.6	2.1	.0	.0	9.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.7	.0	.0	.0	.0	.0	.0	.7	.0		1.3	
	11-21	.0	1.3	1.3	.7	.0	.0	.7	.7	.0		4.6	
	22+	.0	.0	.0	.0	.0	.0	.5	.8	.0		1.3	
	TOT %	.7	1.3	1.3	.7	.0	.0	1.1	2.1	.0	.0	7.2	
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	.0	.0	.7	.0	.0	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	1.3	.0	1.3	.0		2.6	
	TOT %	.0	.0	.0	.0	.7	1.3	.0	1.3	.0	.0	3.3	
2<5	0-3	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7	
	4-10	1.6	.0	.0	.0	.0	.0	.7	.3	.0		2.6	
	11-21	.0	.0	.0	.7	1.5	1.8	.7	.7	.0		5.2	
	22+	.5	.0	.7	.7	.0	.7	.0	1.5	.0		3.9	
	TOT %	2.1	.0	.7	1.3	1.5	3.1	1.3	2.5	.0	.0	12.4	
5<10	0-3	.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	1.3	
	4-10	1.1	1.0	1.6	.0	.7	2.1	1.1	1.5	.0		9.2	
	11-21	2.8	1.6	1.1	.8	1.0	2.9	.7	4.1	.0		15.0	
	22+	1.0	1.3	.7	.0	.7	2.0	1.0	5.2	.0		11.8	
	TOT %	5.6	3.9	3.4	.8	2.3	7.7	2.8	10.8	.0	.0	37.3	
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	
	4-10	.7	.0	.7	.0	1.8	.2	1.0	2.9	.0		8.5	
	11-21	3.1	.0	.7	.3	2.0	1.0	2.1	4.6	.0		13.7	
	22+	2.3	2.8	.0	.0	.7	.0	.3	3.1	.0		9.2	
	TOT %	6.0	2.8	1.3	.3	4.4	1.1	3.4	10.0	.0	.7	30.1	
	TOT OBS												153
	TOT PCT	16.2	10.6	6.7	3.1	8.8	13.9	11.3	28.8	.0	.7	100.0	

PERIOD: (PRIMARY) 1965-1970
(OVER-ALL) 1928-1970

AREA 0001 BELLE ISLE STRAIT
50.0N 57.4W

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
00E03	17.8	2.2	.0	8.9	8.9	6.7	.0	.0	8.9	.0	53.3	46.7	45
06E09	16.7	.0	.0	16.7	.0	16.7	.0	.0	16.7	.0	66.7	33.3	6
12E15	9.8	5.9	3.9	7.8	23.5	9.8	2.0	2.0	2.0	2.0	68.6	31.4	51
18E21	10.4	4.2	6.3	12.5	16.7	2.1	6.3	.0	2.1	.0	60.4	39.6	48
TOT	19	6	5	18	24	10	4	1	7	1	92	58	150
PCT	12.7	4.0	3.3	10.0	16.0	6.7	2.7	.7	4.7	.7	61.3	38.7	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
00E03	13.3	4.4	2.2	13.3	35.6	31.1	45
06E09	.0	14.3	.0	.0	.0	85.7	7
12E15	9.6	7.7	3.8	13.5	40.4	25.0	52
18E21	8.2	8.2	4.1	12.2	40.8	26.5	49
TOT	15	11	5	19	57	46	153
PCT	9.8	7.2	3.3	12.4	37.3	30.1	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 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	18.6	29.6	39.5	16.3	44.2	43
06E09	16.7	16.7	33.3	33.3	33.3	6
12E15	9.8	27.5	45.1	25.5	29.4	51
18E21	10.4	27.1	43.8	16.7	39.6	48
TOT	19	39	63	30	55	148
PCT	12.8	26.4	42.6	20.3	37.2	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
40/44	.0	.0	.0	.0	.0	.7	.0	.0	1	.7
35/39	.0	.0	.0	.0	1.9	4.4	3.0	2.2	16	11.7
30/34	.0	.0	.0	.7	.7	1.5	3.6	19.7	36	26.3
25/29	.0	.0	.0	.7	1.9	4.4	15.3	10.2	44	32.1
20/24	.0	.0	1.5	.7	.7	3.2	8.8	6.6	28	20.4
15/19	.0	.0	.0	.0	.0	2.2	1.5	1.5	7	5.1
10/14	.0	.0	.0	.0	.7	1.5	.7	.7	5	3.6
TOTAL	0	0	2	3	7	23	46	56	137	100.0
PCT	.0	.0	1.5	2.2	5.1	16.8	33.6	40.9		

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	.5	.2	.0	.0
	1.5	2.2	2.7	.2	1.5	.0	2.0	1.6	.0	.0
	6.8	2.4	.0	1.6	4.4	2.0	.7	8.4	.0	.0
	3.1	3.3	2.2	.9	3.6	6.6	3.6	8.8	.0	.0
	2.7	1.8	1.8	.7	.0	3.6	1.8	7.8	.0	.0
	.7	.0	.7	.0	.0	1.5	.5	1.6	.0	.0
	.0	1.5	.0	.0	.0	.0	1.8	.4	.0	.0
	14.8	11.1	7.5	3.5	9.5	13.7	11.1	28.8	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	38	37	35	27	13	10	10	26.2	46
06E09	36	36	35	31	22	22	22	30.1	9
12E15	41	40	40	27	17	15	15	27.3	52
18E21	45	44	38	29	22	13	13	29.2	48
TOT	45	41	37	28	17	11	10	27.7	155

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
00E03	.0	5.1	7.7	12.8	33.3	41.0	85	39
06E09	.0	.0	16.7	16.7	16.7	50.0	88	6
12E15	.0	2.2	.0	21.7	39.1	37.0	86	46
18E21	.0	4.3	6.5	15.2	30.4	43.5	85	46
TOT	0	5	7	23	46	56	85	137

MARCH

PERIOD: (PRIMARY) 1965-1970
(OVER-ALL) 1928-1970

AREA 0001 BELLE ISLE STRAIT
50.6N 57.4W

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	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.0	.0	.0	1.5	.0	1	.0	1.5
6	.0	.0	.0	.0	.0	.0	1.5	.0	.0	1	.0	1.5
5	.0	.0	.0	.0	.0	7.5	.0	.0	.0	3	3.0	4.5
4	.0	.0	.0	.0	.0	6.0	.0	.0	1.5	5	.0	7.5
3	.0	.0	.0	.0	3.0	3.0	.0	.0	.0	4	1.5	4.5
2	.0	.0	.0	.0	1.5	3.0	.0	.0	.0	3	.0	4.5
1	.0	.0	.0	.0	1.5	.0	.0	.0	.0	1	1.5	.0
0	.0	.0	.0	.0	3.0	1.5	.0	1.5	.0	4	.0	6.0
-1	.0	.0	.0	3.0	.0	.0	.0	.0	.0	2	.0	3.0
-2	.0	.0	.0	7.5	.0	.0	.0	.0	.0	5	1.5	6.0
-3	.0	.0	.0	9.0	1.5	.0	.0	.0	.0	7	.0	10.4
-4	.0	.0	.0	3.0	.0	.0	.0	.0	.0	2	.0	3.0
-5	.0	.0	.0	6.0	3.0	.0	.0	.0	.0	6	.0	9.0
-6	.0	.0	4.5	.0	3.0	.0	.0	.0	.0	5	.0	7.5
-7/-8	.0	.0	4.5	1.5	3.0	.0	.0	.0	.0	6	.0	9.0
-9/-10	.0	1.5	4.5	.0	.0	.0	.0	.0	.0	4	.0	6.0
-11/-13	.0	4.5	.0	.0	.0	.0	.0	.0	.0	3	.0	4.5
-14/-16	1.5	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	1.5
-17/-19	3.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	3.0
TOTAL	3	4	9	20	13	14	1	2	1	67	5	62
PCT	4.5	6.0	13.4	29.9	19.4	20.9	1.5	3.0	1.5	100.0	7.5	92.5

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	3.0	2.3	.0	.0	.0	5.3
1-2	.0	2.3	4.3	.0	.0	.0	7.6
3-4	.0	3.0	2.3	.0	.0	.0	5.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	2.3	.0	.0	2.3
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	8.3	9.8	2.3	.0	.0	20.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.5	.0	.0	.0	.0	4.5
1-2	.0	.0	.8	.0	.0	.0	.8
3-4	.0	.0	3.8	3.0	.0	.0	6.8
5-6	.0	0	.0	.0	.0	.0	.0
7	.0	.0	6.1	.0	.0	.0	6.1
8-9	.0	.0	.0	6.8	.0	.0	6.8
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	.0	4.5	10.6	9.8	.0	.0	25.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.5	.0	.0	.0	.0	4.5
1-2	.0	6.1	3.0	.0	.0	.0	9.1
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	3.0	.0	.0	3.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	10.6	3.0	3.0	.0	.0	16.7

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	.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

PERIOD: (OVER-ALL) 1963-1970

MARCH

AREA 0001 BELLE ISLE STRAIT
50.6N 57.4W

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	.0	3.0	.0	6.1	.0	.0	.0	.0	6.1
1-2	.0	2.3	.0	.0	.0	.0	2.3	.0	.8	.0	.0	.0	.0	.8
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	3.0	.0	.0	.0	3.0	.0	.0	3.0	.0	.0	.0	3.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	3.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	3.0
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	5.3	3.0	.0	.0	.0	8.3	.0	6.8	3.0	3.0	3.0	.0	15.9

	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	.0	.0	.8	.0	.0	.0	.8	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	3.8	.0	.0	.0	.0	3.8	
3-4	.0	.0	.0	2.3	.0	.0	2.3	.0	.0	3.0	.8	.0	.0	3.8	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	3.0	
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	2.3	.0	.0	2.3	.0	3.8	3.8	3.8	.0	.0	11.4	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	.0	21.2	3.0	.0	.0	.0	24.2	
1-2	.0	15.2	9.1	.0	.0	.0	24.2	
3-4	.0	3.0	9.1	6.1	.0	.0	18.2	
5-6	.0	.0	.0	3.0	.0	.0	3.0	
7	.0	.0	12.1	.0	.0	.0	12.1	
8-9	.0	.0	.0	15.2	.0	.0	15.2	
10-11	.0	.0	.0	.0	3.0	.0	3.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	39.4	33.3	24.2	3.0	.0	100.0	33

PERIOD: (OVER-ALL) 1957-1970

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	2.4	17.1	14.6	2.4	7.3	4.9	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	4
6-7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
8-9	.0	.0	.0	2.4	.0	.0	.0	.0	2.4	2.4	2.4	.0	.0	.0	.0	.0	.0	.0	.0	4	15
10-11	.0	2.4	2.4	.0	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
12-13	.0	.0	2.4	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	14.6	2.4	.0	.0	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	2
TOTAL	7	9	8	2	7	2	3	0	1	1	1	0	0	0	0	0	0	0	0	41	5
PCT	17.1	22.0	19.5	4.9	17.1	4.9	7.3	.0	2.4	2.4	2.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1965-1970
(OVER-ALL) 1878-1970

AREA 0001 BELLE ISLE STRAIT
50.6N 57.2W

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	1.5	.0	1.5	.0	24.0	.0	.0	26.9	4.0	.0	5.8	.0	.0	.0		63.3
NE	3.2	.0	.0	.0	29.0	.0	.0	29.7	.6	.0	5.2	.0	.0	.0		64.5
E	9.3	.0	11.1	.0	9.3	.0	.0	29.6	3.7	.0	17.6	.0	.0	.0		49.1
SE	19.8	3.2	3.2	3.2	7.2	.0	.0	30.4	6.4	.0	4.0	.0	.0	.0		59.2
S	15.0	.0	.0	.0	12.0	.0	.0	27.0	.0	.0	4.0	.0	.0	.0		69.0
SW	2.4	.0	.0	.0	17.2	.0	.0	19.6	3.8	.0	5.7	.0	.0	1.9		68.9
W	.0	.0	.0	1.7	32.0	.0	.0	33.7	4.5	.0	1.1	.0	.0	.0		60.7
NW	.0	.0	.0	.8	23.0	.0	.0	23.8	.0	.0	1.6	.0	.0	3.2		71.4
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	16.7	.0	.0	.0		83.3
TOT PCT	4.6	.3	1.5	.6	20.3	.0	.0	26.8	3.1	.0	5.5	.0	.0	.6		64.0
TOT OBS:	325															

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	6.8	.0	4.1	1.4	17.8	.0	.0	28.8	4.1	.0	1.4	.0	.0	2.7		63.0
06&09	.0	.0	.0	.0	37.5	.0	.0	37.5	.0	.0	12.5	.0	.0	.0		50.0
12&15	2.4	.0	1.6	.8	21.8	.0	.0	26.6	2.4	.0	8.9	.0	.0	.0		62.1
18&21	5.8	.8	.0	.0	19.2	.0	.0	25.0	3.3	.0	4.2	.0	.0	.0		67.5
TOT PCT	4.6	.3	1.5	.6	20.3	.0	.0	26.8	3.1	.0	5.5	.0	.0	.6		64.0
TOT OBS:	325															

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	3.3	9.2	6.7	1.9	.0		21.7	19.5	13.3	16.2	15.0	.0	25.7	28.0	20.2	24.5
NE	.5	2.8	5.2	4.2	.4	.0		13.1	17.9	14.1	7.4	25.0	.0	13.4	2.5	17.1	17.5
E	.3	4.4	3.3	.5	.5	.0		8.9	12.9	7.7	5.9	.0	.0	15.4	11.9	4.5	7.0
SE	.1	4.8	3.9	.3	.1	.0		9.1	11.2	11.3	5.9	.0	.0	3.8	12.7	10.3	11.0
S	.5	2.8	3.3	.7	.2	.0		7.6	13.1	10.5	10.3	10.0	.0	5.5	3.8	13.0	2.0
SW	.6	2.8	5.5	5.0	1.2	.0		15.2	18.9	12.9	19.1	10.0	.0	12.7	19.5	11.0	22.5
W	.3	2.4	4.5	3.5	.3	.0		12.9	16.9	9.7	22.1	10.0	.0	12.3	13.1	15.1	12.0
NW	.0	2.0	4.3	3.2	.3	.0		9.7	18.0	17.3	13.2	30.0	.0	8.6	6.8	7.5	3.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0	3.2	.0	.0	.0	2.7	1.7	1.4	.0
TOT OBS	16	87	141	83	17	0	344		16.6	62	17	10	0	73	59	73	50
TOT PCT	4.7	25.3	41.0	24.1	4.9	.0		100.0		100.0	100.0	100.0	.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	6.5	8.4	4.0	.7		21.7	19.5	13.9	15.0	26.7	22.0
NE	2.3	3.3	5.2	2.1	.1		13.1	17.9	12.7	25.0	8.5	17.3
E	2.3	4.2	1.5	1.0	.0		8.9	12.9	7.3	.0	13.8	5.5
SE	1.7	6.5	.8	.1	.0		9.1	11.2	10.1	.0	7.8	10.6
S	1.6	4.5	.8	.4	.2		7.6	13.1	10.4	10.0	4.7	8.5
SW	1.5	5.0	5.0	3.6	.1		15.2	18.9	14.2	10.0	15.7	15.7
W	1.5	5.2	4.9	1.1	.3		12.9	16.9	12.3	10.0	12.7	13.8
NW	.6	4.2	3.3	1.6	.0		9.7	18.0	16.5	30.0	7.8	5.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	2.5	.0	2.3	.8
TOT OBS	52	136	103	48	5	344		16.6	79	10	132	123
TOT PCT	15.1	39.5	29.9	14.0	1.5		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1965-1970
(OVER-ALL) 1878-1970

AREA 0001 BELLE ISLE STRAIT
50.6N 57.2W

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	2.5	1.3	22.8	43.0	22.8	7.6	.0	17.0	100.0	79
06&09	.0	10.0	40.0	50.0	.0	.0	.0	9.9	100.0	10
12&15	2.3	4.5	27.3	38.6	22.7	4.5	.0	15.7	100.0	132
18&21	.8	1.6	23.6	41.5	28.5	4.1	.0	17.7	100.0	123
TOT	6	10	87	141	88	17	0	16.6		344
PCT	1.7	2.9	25.3	41.0	24.1	4.9	.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	3.0	.0	4.7	10.4		6.4
NE	2.3	.4	2.8	6.4		6.1
E	1.0	.9	1.5	4.3		6.2
SE	.1	.6	3.0	5.5		7.1
S	.8	.9	1.8	5.2		6.5
SW	4.9	1.8	4.6	6.8		5.1
W	3.0	1.6	4.6	5.4		5.3
NW	1.8	.8	3.1	4.2		5.6
VAR	.0	.0	.0	.0		.0
CALM	.7	.0	.7	.7		5.3
TOT OBS	50	20	77	141	288	5.9
TOT PCT	17.4	6.9	26.7	49.0	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	1.1	.0	1.2	1.7	3.0	3.2	.3	.0	.0	.9	6.8	
NE	1.1	.0	1.2	.9	1.5	2.5	.1	.0	.0	.4	4.2	
E	.5	.0	.3	.0	2.5	.0	.0	.0	.0	.9	3.4	
SE	.3	.0	.1	.3	1.0	.7	.2	.0	1.7	.5	4.3	
S	.7	.0	.0	1.0	.6	.3	.9	.0	.0	.3	4.9	
SW	1.0	.0	1.5	1.2	1.3	1.8	.4	.0	.0	1.0	9.7	
W	.7	.3	.6	1.6	2.9	.6	.3	.0	.3	.3	6.8	
NW	.7	.0	.3	1.8	1.5	1.2	.0	.0	.0	.2	4.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.3	.0	.0	.0	.0	.0	.3	.0	1.4	
TOT OBS	18	1	16	25	41	30	6	0	7	13	131	288
TOT PCT	6.3	.3	5.6	8.7	14.2	10.4	2.1	.0	2.4	4.5	45.5	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	2.8	6.3	6.3	6.3	6.3	6.3	6.3	6.3
= OR >5000	2.8	6.3	6.3	6.3	6.3	6.3	6.3	6.3
= OR >3500	2.8	7.7	8.4	8.4	8.4	8.4	8.4	8.4
= OR >2000	6.0	15.4	18.2	18.6	18.9	18.9	18.9	18.9
= OR >1000	7.4	21.1	28.4	31.6	33.0	33.0	33.0	33.0
= OR >600	9.1	24.6	33.3	38.6	41.4	41.8	41.8	41.8
= OR >300	9.1	25.6	35.1	42.8	46.3	47.4	47.4	47.4
= OR >150	9.1	25.6	35.4	43.2	46.7	47.7	47.7	47.7
= OR > 0	9.1	26.0	36.1	44.9	49.5	53.0	54.0	54.0
TOTAL	26	74	103	128	141	151	154	154

TOTAL NUMBER OF OBS: 285 PCT FREQ NH <5/8: 46.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.3	8.2	8.2	7.1	3.7	4.1	6.1	6.8	32.3	6.1	294

APRIL

PERIOD: (PRIMARY) 1965-1970
(OVER-ALL) 1878-1970

AREA 0001 BELLE ISLE STRAIT
50.0N 57.2W

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	1.8	1.1	.8	1.2	.3	.0	.0	.3	.0	.0	5.5	
<1/2	NO PCP	.6	.3	1.2	.3	.3	.3	.0	.3	.0	.0	3.4	
	TOT %	2.4	1.4	2.1	1.5	.6	.3	.0	.6	.0	.0	8.9	
	PCP	1.2	.7	.0	.3	.6	.1	1.2	.0	.0	.0	4.0	
1/2<1	NO PCP	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.6	
	TOT %	1.5	.7	.0	.3	.6	.4	1.2	.0	.0	.0	4.6	
	PCP	1.0	1.4	.2	.0	.6	1.6	1.4	.5	.0	.0	6.8	
1<2	NO PCP	.0	.3	.2	.1	.0	.3	.0	.0	.0	.3	1.2	
	TOT %	1.0	1.7	.5	.1	.6	1.9	1.4	.5	.0	.3	8.0	
	PCP	.8	.4	1.4	.8	.2	.8	1.9	.8	.0	.0	6.8	
2<5	NO PCP	1.3	1.4	.5	.7	.0	2.2	.4	.2	.0	.0	6.8	
	TOT %	2.2	1.8	1.9	1.5	.2	3.0	1.9	1.1	.0	.0	13.5	
	PCP	.6	.0	.0	.0	.3	.7	.5	.3	.0	.0	2.8	
5<10	NO PCP	8.5	3.0	2.5	2.8	2.5	4.1	4.5	3.6	.0	.6	32.3	
	TOT %	9.5	3.0	2.5	2.8	2.8	4.8	5.1	3.9	.0	.6	35.1	
	PCP	.0	.0	.0	.6	.0	.0	.0	.3	.0	.0	.9	
10+	NO PCP	4.7	3.4	1.3	2.8	2.8	5.7	4.2	3.2	.0	.9	28.9	
	TOT %	4.7	3.4	1.3	3.4	2.8	5.7	4.2	3.5	.0	.9	29.8	
	TOT OBS												325
	TOT PCT	21.2	11.9	8.3	9.6	7.7	16.1	13.7	9.7	.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
	0-3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
<1/2	4-10	.6	.6	1.5	1.5	.3	.3	.0	.0	.0		4.9	
	11-21	.5	.2	.0	.0	.3	.0	.0	.3	.0		1.2	
	22+	1.3	.6	.2	.0	.0	.0	.0	.3	.0		2.5	
	TOT %	2.4	1.4	2.1	1.5	.6	.3	.0	.6	.0	.0	8.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.3	.0	.0	.0	.6	.0	.0	.0	.0		.9	
	11-21	.3	.3	.0	.3	.0	.1	.8	.0	.0		1.8	
	22+	.8	.4	.0	.0	.0	.3	.3	.0	.0		1.8	
	TOT %	1.5	.7	.0	.3	.6	.4	1.2	.0	.0	.0	4.6	
	0-3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	.6	
1<2	4-10	.0	.3	.0	.0	.0	.0	.0	.0	.0		.3	
	11-21	.5	.4	.2	.0	.0	1.3	1.1	.5	.0		4.0	
	22+	.5	1.0	.2	.1	.3	.6	.3	.1	.0		3.1	
	TOT %	1.0	1.7	.5	.1	.6	1.9	1.4	.5	.0	.3	8.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.2	.4	.8	.4	.2	.8	.7	.5	.0		4.0	
	11-21	.8	.9	.8	.8	.0	.6	.5	.5	.0		4.9	
	22+	1.1	.5	.3	.3	.0	1.6	.8	.1	.0		4.6	
	TOT %	2.2	1.8	1.9	1.5	.2	3.0	1.9	1.1	.0	.0	13.5	
	0-3	.2	.1	.0	.0	.0	.0	.3	.0	.0	.6	1.2	
5<10	4-10	1.5	.7	1.2	1.7	1.0	.8	.8	.7	.0		8.3	
	11-21	4.8	1.0	1.1	1.2	1.6	2.1	2.1	1.8	.0		15.7	
	22+	2.9	1.2	.3	.0	.2	1.9	1.8	1.4	.0		9.8	
	TOT %	9.5	3.0	2.5	2.8	2.8	4.8	5.1	3.9	.0	.6	35.1	
	0-3	.5	.2	.0	.1	.2	.6	.0	.0	.0	.9	2.5	
10+	4-10	.9	.9	.8	1.5	.8	1.2	1.0	.9	.0		8.0	
	11-21	1.5	1.4	.5	1.8	1.2	1.8	2.4	1.1	.0		11.7	
	22+	1.8	.9	.0	.0	.5	2.2	.8	1.5	.0		7.7	
	TOT %	4.7	3.4	1.3	3.4	2.8	5.7	4.2	3.5	.0	.9	29.8	
	TOT OBS												325
	TOT PCT	21.2	11.9	8.3	9.6	7.7	16.1	13.7	9.7	.0	1.8	100.0	

APRIL

PERIOD: (PRIMARY) 1965-1970
(OVER-ALL) 1878-1970

AREA 0001 BELLE ISLE STRAIT
50.6N 57.2W

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	7.6	.0	4.5	4.5	9.1	12.1	3.0	.0	4.5	4.5	50.0	50.0	66
06Z09	75.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75.0	25.0	4
12Z15	4.5	.9	9.1	6.4	20.9	10.9	.9	.0	1.8	4.5	60.0	40.0	110
18Z21	4.6	.0	2.8	13.9	11.1	9.3	2.8	.0	1.9	4.6	50.9	49.1	108
TOT	18	1	16	25	41	30	6	0	7	13	157	131	288
PCT	6.3	.3	5.6	8.7	14.2	10.4	2.1	.0	2.4	4.5	54.5	45.5	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
00Z03	13.7	5.5	5.5	9.6	42.5	23.3	73
06Z09	12.5	.0	.0	12.5	25.0	50.0	8
12Z15	9.7	4.0	8.9	12.9	37.1	27.4	124
18Z21	5.0	5.0	9.2	16.7	29.2	35.0	120
TOT	29	15	26	44	114	97	325
PCT	8.9	4.6	8.0	13.5	35.1	29.8	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
00Z03	7.9	15.9	31.7	20.6	47.6	63
06Z09	75.0	75.0	75.0	.0	25.0	4
12Z15	4.5	18.2	39.1	26.4	34.5	110
18Z21	4.6	12.0	40.7	16.7	42.6	108
TOT	18	46	110	60	115	285
PCT	6.3	16.1	38.6	21.1	40.4	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
45/49	.0	.0	.0	.0	.0	1.1	.0	.0	3	1.1
40/44	.0	.0	.4	.7	2.5	.7	1.1	.4	16	5.8
35/39	.0	.0	.0	.4	2.2	4.3	6.1	5.0	50	18.0
30/34	.0	.0	.0	.0	1.1	7.2	12.9	20.5	116	41.7
25/29	.0	.0	.0	.7	1.4	4.3	8.3	4.7	54	19.4
20/24	.0	.0	.0	.7	.7	4.0	2.9	5.0	37	13.3
15/19	.0	.0	.0	.0	.0	.7	.0	.0	2	.7
TOTAL	0	0	1	7	22	62	87	99	278	100.0
PCT	.0	.0	.4	2.5	7.9	22.3	31.3	35.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0
	.5	.4	.7	2.5	.0	.7	.0	.8	.0	.0
	1.4	1.2	1.5	3.3	3.9	3.7	1.7	.9	.0	.4
	10.9	5.6	3.2	2.4	3.3	7.6	4.0	3.3	.0	1.4
	2.6	3.1	2.0	.1	.9	4.4	3.3	2.6	.0	.4
	2.0	.4	.4	.0	.5	2.3	5.7	2.0	.0	.0
	.5	.1	.0	.0	.0	.0	.0	.1	.0	.0
	18.0	10.9	7.8	9.4	8.6	18.7	14.7	9.7	.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
00Z03	42	41	37	31	23	20	20	30.3	78
06Z09	42	41	41	32	29	23	23	32.0	10
12Z15	48	44	42	32	21	19	18	31.7	132
18Z21	53	45	43	34	24	22	22	33.7	122
TOT	53	43	42	32	22	20	18	32.1	342

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	3.1	10.8	12.3	33.8	40.0	85	65
06Z09	.0	.0	.0	25.0	.0	75.0	94	4
12Z15	.0	2.8	6.5	19.4	33.3	38.0	84	138
18Z21	.0	3.0	7.9	31.7	28.7	28.7	82	101
TOT	0	8	22	62	87	99	84	278

APRIL

PERIOD: (PRIMARY) 1965-1970
(OVER-ALL) 1878-1970

AREA 0001 BELLE ISLE STRAIT
50.6N 57.2W

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	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	N FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.8	1.7	.8	4	.0	3.3
9/10	.0	.0	.0	.0	.0	.0	1.7	.8	.0	3	.0	2.5
7/8	.0	.0	.0	.0	.0	.8	1.7	.0	.0	3	.0	2.5
6	.0	.0	.0	.0	2.5	3.3	.0	.0	.0	7	.0	5.8
5	.0	.0	.0	.0	.8	5.0	.0	.0	.0	7	.8	5.0
4	.0	.0	.0	.0	7.4	3.3	.0	.0	.0	13	5.0	5.8
3	.0	.0	.0	3.3	11.6	.0	.0	.0	.0	18	.8	14.0
2	.0	.0	.0	6.6	6.6	.8	.0	.0	.0	17	1.7	12.4
1	.0	.0	.0	6.6	2.5	.0	.0	.0	.0	11	.0	9.1
0	.0	.0	.0	5.0	.8	.0	.8	.0	.0	8	.0	6.6
-1	.0	.0	.0	5.0	1.7	.0	.0	.0	.0	8	.0	6.6
-2	.0	.0	.0	.8	.0	.0	.0	.0	.	1	.0	.8
-3	.0	.0	1.7	.8	.0	.0	.0	.0	.0	3	.0	2.5
-4	.0	.0	.8	.8	.0	.0	.0	.0	.0	2	.0	1.7
-5	.0	.0	1.7	2.5	.8	.0	.0	.0	.0	6	.0	5.0
-6	.0	.8	.0	.8	.0	.0	.0	.0	.0	2	.0	1.7
-7/-8	.8	3.3	.0	.0	.0	.0	.0	.0	.0	5	.0	4.1
-9/-10	.0	.8	.0	.0	.0	.0	.0	.0	.0	1	.0	.8
-11/-13	.8	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.8
-14/-16	.8	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.8
TOTAL	3	6	5	39	42	16	6	3	1	121	10	111
PCT	2.5	5.0	4.1	32.2	34.7	13.2	5.0	2.5	.8	100.0	8.3	91.7

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	1.1	1.5	.0	.0	.0	.0	2.7
1-2	.0	1.5	4.5	.0	.0	.0	6.1
3-4	.0	1.1	1.5	1.5	.0	.0	4.2
5-6	.0	.0	.0	2.7	.0	.0	2.7
7	.0	.0	1.1	2.7	2.7	.0	6.4
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	4.2	7.2	6.8	2.7	.0	22.0

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	1.5	6.4	.0	.0	.0	8.0
3-4	.0	.0	4.5	.0	.0	.0	4.5
5-6	.0	.0	.0	4.9	.0	.0	4.9
7	.0	.0	.0	3.8	.4	.0	4.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.5	.0	.0	1.5
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	1.5	11.0	10.2	.4	.0	23.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	1.1	.0	.0	.0	1.1
1-2	.0	2.7	1.1	.0	.0	.0	3.8
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	1.5	.0	.0	1.5
7	.0	.0	.0	1.1	.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	2.7	2.3	2.7	.0	.0	7.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.4	.0	.0	.0	.4
1-2	.0	.4	3.0	.0	.0	.0	3.4
3-4	.0	.0	3.0	.0	.0	.0	3.0
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	.4	6.4	.0	.0	.0	6.8

PERIOD: (OVER-ALL) 1963-1970

APRIL

AREA 0001 BELLE ISLE STRAIT
50.6N 57.2W

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	1.5	.0	.0	.0	1.5	.0	.0	.4	.0	.0	.0	.4
1-2	.0	1.5	1.5	.0	.0	.0	3.0	.0	1.9	3.0	.0	.0	.0	4.9
3-4	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	1.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	1.5
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	1.5	1.9	1.5	.0	4.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	1.5
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	.0	1.5	3.0	.0	.0	.0	4.5	1.9	1.9	4.9	1.9	4.5	.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	.0	1.1	.0	.0	.0	1.1	.0	.0	1.5	.0	.0	.0	1.5	
1-2	.0	2.7	2.7	.0	.0	.0	5.3	.0	.0	3.4	.0	.0	.0	3.4	
3-4	.0	.0	.0	1.1	.0	.0	1.1	.0	.4	.0	.4	.0	.0	.8	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	1.5	
7	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.8	1.5	.0	.0	2.3	
8-9	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	1.5	
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	.0	2.7	4.9	2.3	.0	.0	9.8	.0	.4	5.7	4.9	.0	.0	11.0	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	1.5	1.5	6.1	.0	.0	.0	9.1	
1-2	.0	12.1	25.8	.0	.0	.0	37.9	
3-4	1.5	1.5	9.1	3.0	.0	.0	15.2	
5-6	.0	.0	.0	10.6	1.5	.0	12.1	
7	.0	.0	3.0	9.1	3.0	.0	15.2	
8-9	.0	.0	1.5	3.0	1.5	.0	6.1	
10-11	.0	.0	.0	3.0	1.5	.0	4.5	
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	
								66
TOT PCT	3.0	15.2	45.5	28.8	7.6	.0	100.0	

PERIOD: (OVER-ALL) 1951-1970

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	5.7	27.1	12.9	7.1	10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	3
6-7	.0	.0	1.4	4.3	1.4	5.7	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	7
8-9	.0	.0	.0	1.4	1.4	1.4	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
10-11	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
12-13	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	13
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	1	20
INDET	2.9	5.7	.0	.0	1.4	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	3
TOTAL	6	23	10	9	10	5	5	0	1	0	1	0	0	0	0	0	0	0	0	70	4
PCT	8.6	32.9	14.3	12.9	14.3	7.1	7.1	.0	1.4	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1886-1970
(OVER-ALL) 1874-1970

AREA 0001 BELLE ISLE STRAIT
50.8N 56.7W

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	15.7	.0	4.5	.0	27.0	.0	.0	47.2	.0	.0	11.2	.0	.0	.0		41.6
NE	11.1	.0	14.8	.0	3.7	.0	.0	29.6	7.4	.0	31.5	.0	.0	.0		31.5
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17.4	.0	.0	.0		82.6
SE	.0	9.8	.0	.0	.0	.0	.0	9.8	.0	.0	14.6	.0	9.8	.0		65.9
S	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	24.8	4.0	.0	.0		68.3
SW	3.3	.0	.0	.0	.0	.0	.0	3.3	3.3	.0	24.2	2.6	.0	.0		66.7
W	8.1	.0	.0	.0	10.8	.0	.0	18.9	.0	.0	.0	.0	.0	.0		81.1
NW	.0	10.5	.0	.0	47.4	.0	.0	57.9	.0	.0	2.6	.0	.0	.0		39.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	18.2	.0	.0	.0	.0	18.2	.0	.0	9.1	9.1	.0	.0		63.6
TOT PCT	4.8	1.4	3.4	.0	8.3	.0	.0	17.9	2.1	.0	17.9	2.1	.7	.0		59.3
TOT OBS:	145															

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	6.8	2.3	.0	.0	13.6	.0	.0	22.7	2.3	.0	18.2	.0	.0	.0		56.8
06609	5.3	.0	5.3	.0	.0	.0	.0	10.5	.0	.0	26.3	.0	.0	.0		63.2
12615	2.1	.0	6.3	.0	8.3	.0	.0	16.7	.0	.0	22.9	4.2	2.1	.0		54.2
18621	5.1	2.6	2.6	.0	5.1	.0	.0	15.4	5.1	.0	5.1	2.6	.0	.0		71.8
TOT PCT	4.7	1.3	3.3	.0	8.0	.0	.0	17.3	2.0	.0	17.3	2.0	.7	.0		60.7
TOT OBS:	150															

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	4.2	9.4	3.2	1.1	.0		15.1	16.8	14.7	30.8	17.9	.0	12.1	28.8	10.6	7.1
NE	.2	1.9	4.7	1.9	.0	.0		8.8	14.5	8.1	.0	25.0	.0	11.4	1.9	11.5	.0
E	.5	2.6	1.9	.6	.0	.0		5.7	10.2	5.9	7.7	.0	.0	7.9	.0	7.7	7.1
SE	.5	4.5	1.9	.0	.0	.0		7.0	8.3	2.9	.0	16.1	.0	14.3	7.7	3.8	3.6
S	1.6	7.5	7.1	1.1	.0	.0		17.4	10.8	20.6	15.4	17.9	.0	17.9	13.5	16.3	21.4
SW	.6	11.9	11.9	.8	.0	.0		25.2	12.0	27.2	46.2	23.2	40.0	14.3	25.0	26.0	23.2
W	.6	4.4	1.9	.5	.0	.0		7.3	10.3	6.6	.0	.0	20.0	5.7	11.5	10.6	12.5
NW	.6	1.9	2.9	1.5	.2	.0		6.5	15.0	8.1	.0	.0	20.0	7.9	3.8	5.8	10.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.1							7.1	.0	5.9	.0	.0	20.0	8.6	7.7	7.7	14.3
TOT OBS	20	60	57	15	2	0	154		11.6	34	13	14	5	35	13	26	14
TOT PCT	13.0	39.0	37.0	9.7	1.3	.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	1.8	6.0	4.9	1.8	.6		15.1	16.8	19.1	13.2	16.7	9.4
NE	1.5	3.4	3.9	.0	.0		8.8	14.5	5.9	18.4	8.9	7.5
E	3.1	1.3	1.3	.0	.0		5.7	10.2	6.4	.0	5.7	7.5
SE	1.8	5.2	.0	.0	.0		7.0	8.3	2.1	11.8	12.5	3.8
S	3.4	10.9	3.1	.0	.0		17.4	10.8	19.1	13.2	16.7	18.1
SW	4.7	14.3	6.2	.0	.0		25.2	12.0	32.4	27.6	17.2	25.0
W	1.3	5.0	1.0	.0	.0		7.3	10.3	4.8	5.3	7.3	11.3
NW	.6	2.6	3.1	.2	.0		6.5	15.0	5.9	5.3	6.8	7.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.1						7.1	.0	4.3	5.3	8.3	10.0
TOT OBS	39	75	36	3	1	154		11.6	47	19	48	40
TOT PCT	25.3	48.7	23.4	1.9	.6		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1886-1970
(OVER-ALL) 1874-1970

AREA 0001 BELLE ISLE STRAIT
50.8N 56.7W

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	4.3	4.3	40.4	42.6	4.3	4.3	.0	12.7	100.0	47
06&09	5.3	5.3	57.9	26.3	5.3	.0	.0	9.4	100.0	19
12&15	8.3	8.3	39.6	37.5	6.3	.0	.0	10.5	100.0	48
18&21	10.0	5.0	27.5	35.0	22.5	.0	.0	12.6	100.0	40
TOT	11	9	60	57	15	2	0	11.6		154
PCT	7.1	5.8	39.0	37.0	9.7	1.3	.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	1.1	.0	.0	12.9		7.5
NE	.0	.0	2.1	12.2		7.8
E	.0	1.1	2.1	2.1		6.6
SE	1.1	1.1	1.1	2.9		5.9
S	4.3	.8	3.2	6.1		5.4
SW	2.1	6.6	4.3	13.8		6.0
W	2.1	.0	.8	3.2		5.6
NW	.0	.0	.3	5.6		7.9
VAR	.0	.0	.0	.0		.0
CALM	4.3	.0	2.1	1.1		3.8
TOT OBS	14	9	15	56	94	6.3
TOT PCT	14.9	9.6	16.0	59.6	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	300 499	500 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.6	.0	3.7	2.1	1.9	1.3	.8	1.1	.0	.0	1.1	
NE	2.4	.0	.5	3.2	.0	4.0	1.1	1.1	.0	.5	2.1	
E	.0	.0	.0	.0	.0	2.1	.0	.0	.0	1.1	2.1	
SE	.0	.0	1.1	.0	1.3	.0	.0	.0	.0	.0	3.7	
S	.0	.0	1.1	1.1	2.7	.0	.0	1.1	.0	.8	7.7	
SW	2.1	.0	.3	5.3	4.5	1.1	.0	1.1	1.1	.3	11.2	
W	2.1	.0	.8	3.2	.0	.0	1.1	.0	.0	.0	2.9	
NW	.3	1.1	2.9	.0	.3	1.1	.3	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	2.1	.0	1.1	.0	.0	.0	.0	4.3	
TOT OBS	6	1	11	13	10	10	3	4	1	2	33	94
TOT PCT	6.4	1.1	11.7	13.8	10.6	10.6	3.2	4.3	1.1	2.1	35.1	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	1.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2
* OR >5000	5.3	7.4	7.4	7.4	7.4	7.4	7.4	7.4
* OR >3500	6.4	10.6	10.6	10.6	10.6	10.6	10.6	10.6
* OR >2000	10.6	19.1	21.3	21.3	21.3	21.3	21.3	21.3
* OR >1000	14.9	29.8	31.9	31.9	31.9	31.9	31.9	31.9
* OR >600	17.0	35.1	44.7	45.7	45.7	45.7	45.7	45.7
* OR >300	17.0	35.1	50.0	56.4	56.4	57.4	57.4	57.4
* OR >150	17.0	35.1	50.0	57.4	57.4	58.5	58.5	58.5
* OR > 0	17.0	35.1	50.0	57.4	57.4	60.6	64.9	64.9
TOTAL	16	33	47	54	54	57	61	61

TOTAL NUMBER OF OBS: 94 PCT FREQ NH <5/8: 35.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
14.7	10.8	4.9	3.9	2.9	1.0	5.9	10.8	39.2	5.9	102

MAY

PERIOD: (PRIMARY) 1884-1970
(OVER-ALL) 1874-1970

AREA 0001 BELLE ISLE STRAIT
50.8N 56.7W

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	1.0	1.6	.0	.0	3.4	2.8	.0	.2	.0	.7	9.7	
	TOT %	1.0	1.6	.0	.0	3.4	2.8	.0	.2	.0	.7	9.7	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7	
	PCP	1.0	1.0	.0	.0	.0	.0	.3	1.7	.0	.0	4.1	
1<2	NO PCP	.0	.0	.0	.7	.5	.2	.0	.0	.0	.0	1.4	
	TOT %	1.0	1.0	.0	.7	.5	.2	.3	1.7	.0	.0	5.5	
	PCP	2.4	.0	.0	.0	.0	.2	.5	1.7	.0	.7	5.5	
2<5	NO PCP	.7	.7	.7	.0	.7	2.8	.5	.2	.0	.0	6.2	
	TOT %	3.1	.7	.7	.0	.7	2.9	1.0	1.9	.0	.7	11.7	
	PCP	3.8	1.7	.0	.7	.0	.7	.3	.3	.0	.0	7.6	
5<10	NO PCP	3.3	2.2	1.2	2.8	3.6	9.8	2.6	1.4	.0	.7	27.6	
	TOT %	7.1	4.0	1.2	3.4	3.6	10.5	2.9	1.7	.0	.7	35.2	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	
10+	NO PCP	3.1	2.1	2.1	2.9	9.1	9.3	2.1	1.0	.0	4.8	36.6	
	TOT %	3.1	2.1	2.1	2.9	9.1	9.3	2.1	1.0	.0	5.5	37.2	
	TOT OBS												145
	TOT PCT	15.3	9.3	4.0	7.1	17.4	26.4	6.4	6.6	.0	7.6	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
	0-3	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7	1.4	
<1/2	4-10	.5	.7	.0	.0	1.4	1.4	.0	.2	.0		4.1	
	11-21	.5	.9	.0	.0	1.4	1.4	.0	.0	.0		4.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.0	1.5	.0	.0	3.4	2.7	.0	.2	.0	.7	9.5	
	0-3	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7	
1/2<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	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.5	.2	.0	.0	.0		.7	
	11-21	1.0	.3	.0	.7	.0	.0	.3	1.0	.0		3.4	
	22+	.0	.7	.0	.0	.0	.0	.0	.7	.0		1.4	
	TOT %	1.0	1.0	.0	.7	.5	.2	.3	1.7	.0	.0	5.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.7	.0	.7	1.4	
2<5	4-10	.7	.0	.7	.0	.7	1.5	.5	.0	.0		4.1	
	11-21	1.7	.0	.0	.0	.0	1.4	.0	.3	.0		3.4	
	22+	.7	.7	.0	.0	.0	.0	.5	.9	.0		2.7	
	TOT %	3.1	.7	.7	.0	.7	2.9	1.0	1.9	.0	.7	11.6	
	0-3	.5	.2	.5	.2	.0	.0	.0	.0	.0	.7	2.0	
5<10	4-10	1.4	.7	.7	2.6	1.7	6.6	2.0	.7	.0		16.3	
	11-21	1.7	2.4	.0	.7	1.2	3.7	.9	1.0	.0		11.6	
	22+	3.4	.7	.0	.0	.7	.0	.0	.0	.0		4.8	
	TOT %	7.0	3.9	1.2	3.4	3.6	10.4	2.9	1.7	.0	.7	34.7	
	0-3	.7	.0	.0	.3	1.0	.0	.7	.0	.0	5.4	8.2	
10+	4-10	1.9	.7	1.4	2.2	2.9	2.4	1.4	.9	.0		13.6	
	11-21	.0	1.4	.7	.7	4.9	6.0	.7	.0	.0		14.3	
	22+	.5	.0	.0	.0	.5	.9	.0	.2	.0		2.0	
	TOT %	3.1	2.0	2.0	3.2	9.4	9.2	2.7	1.0	.0	5.4	38.1	
	TOT OBS												147
	TOT PCT	15.1	9.2	3.9	7.3	17.5	26.0	7.0	6.5	.0	7.5	100.0	

PERIOD: (PRIMARY) 1886-1970
(OVER-ALL) 1874-1970

AREA 0001 BELLE ISLE STRAIT
50.8N 56.7W

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	12.0	.0	24.0	.0	8.0	8.0	.0	4.0	.0	.0	56.0	44.0	25
06&09	15.4	.0	.0	15.4	15.4	7.7	.0	7.7	.0	.0	61.5	38.5	13
12&15	3.4	3.4	6.9	20.7	6.9	10.3	6.9	.0	.0	6.9	65.5	34.5	29
18&21	.0	.0	9.4	15.6	12.5	12.5	3.1	6.3	3.1	.0	62.5	37.5	32
TOT	6	1	11	13	10	10	3	4	1	2	61	38	99
PCT	6.1	1.0	11.1	13.1	10.1	10.1	3.0	4.0	1.0	2.0	61.6	38.4	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	17.8	.0	6.7	6.4	33.3	37.8	45
06&09	10.5	.0	5.3	15.8	31.6	36.8	19
12&15	8.3	2.1	4.2	14.6	47.9	22.9	48
18&21	.0	.0	5.0	12.5	27.5	55.0	40
TOT	14	1	8	17	55	57	152
PCT	9.2	.7	5.3	11.2	36.2	37.5	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	14.3	42.9	42.9	23.8	33.3	21
06&09	15.4	15.4	38.5	30.8	30.8	13
12&15	3.4	13.8	34.5	31.0	34.5	29
18&21	.0	9.7	32.3	32.3	35.5	31
TOT	6	18	34	28	92	94
PCT	6.4	19.1	36.2	29.8	94.0	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
50/54	.0	.0	.0	.0	.0	.0	1.0	.0	1	1.0
45/49	.0	.0	.0	.0	.0	1.0	.0	1.0	2	2.1
40/44	.0	.0	.0	.0	3.1	4.2	14.6	5.2	26	27.1
35/39	.0	.0	.0	.0	.0	11.5	12.5	16.7	39	40.6
30/34	.0	.0	.0	.0	.0	1.0	9.4	18.8	28	29.2
TOTAL	0	0	0	0	3	17	36	40	96	100.0
PCT	.0	.0	.0	.0	3.1	17.7	37.5	41.7		

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
.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0
3.1	4.2	1.0	2.1	5.2	8.3	1.0	.0	.0	2.1
5.7	1.8	2.1	3.4	8.3	12.2	3.1	.8	.0	3.1
2.6	4.7	1.0	1.0	3.9	7.0	2.9	4.9	.0	1.0
12.2	11.7	4.2	6.5	17.4	28.6	7.0	6.0	.0	6.3

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	59	58	55	37	31	27	27	37.8	48
06&09	43	42	42	37	32	32	32	36.5	18
12&15	48	47	44	38	31	26	26	37.3	49
18&21	60	59	47	39	31	27	27	39.0	41
TOT	60	59	45	38	31	27	26	37.8	156

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	3.8	7.7	42.3	46.2	88	26
06&09	.0	.0	.0	15.4	46.2	38.5	88	13
12&15	.0	.0	.0	17.2	34.5	48.3	88	29
18&21	.0	.0	6.9	27.6	31.0	34.5	84	29
TOT	0	0	3	17	36	41	87	97

MAY

PERIOD: (PRIMARY) 1886-1970
(OVER-ALL) 1874-1970

AREA 0001 BELLE ISLE STRAIT
50.0N 56.7W

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	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	2.9	.0	.0	3	.0	2.9
9/10	.0	.0	.0	6.7	2.9	1.0	.0	11	.0	10.5
7/8	.0	.0	1.0	7.6	.0	.0	.0	9	.0	8.6
6	.0	.0	1.0	6.7	2.9	1.0	.0	12	1.0	10.5
5	.0	.0	1.9	5.7	1.0	.0	.0	9	1.9	6.7
4	.0	.0	1.9	1.9	.0	.0	.0	4	1.0	2.9
3	.0	.0	5.7	5.7	1.0	.0	1.0	14	3.8	9.5
2	.0	1.9	2.9	5.7	.0	1.0	.0	12	1.9	9.5
1	.0	4.8	1.9	3.8	1.9	.0	.0	13	1.9	10.5
0	.0	1.0	2.9	3.8	.0	.0	.0	8	1.9	5.7
-1	.0	1.0	1.0	.0	.0	.0	.0	2	1.0	1.0
-2	.0	1.9	.0	1.0	.0	.0	.0	3	1.0	1.9
-3	1.0	1.0	1.0	.0	.0	.0	.0	3	.0	2.9
-4	.0	1.0	.0	.0	.0	.0	.0	1	.0	1.0
-7/-5	.0	.0	.0	.0	1.0	.0	.0	1	.0	1.0
TOTAL	1		22		14		1		16	89
		13		51		3		105		
PCT	1.0	12.4	21.0	48.6	13.3	2.9	1.0	100.0	15.2	84.8

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	4.8	.0	.0	.0	.0	.0	4.8
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	4.8	.0	.0	.0	.0	.0	4.8

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	.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	.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

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	4.8	.0	.0	.0	.0	4.8
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	9.5	.0	.0	.0	.0	9.5

PERIOD: (OVER-ALL) 1963-1970

MAY

AREA 0001 BELLE ISLE STRAIT
50.8N 56.7W

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	11.9	.0	.0	.0	.0	11.9
1-2	.0	8.3	.0	.0	.0	.0	8.3
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	20.2	.0	.0	.0	.0	20.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	7.1	.0	.0	.0	.0	7.1
1-2	.0	10.7	.0	.0	.0	.0	10.7
3-4	.0	.0	14.3	.0	.0	.0	14.3
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	17.9	15.5	.0	.0	.0	33.3

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	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	3.6	.0	.0	.0	3.6
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	.0	3.6	.0	.0	.0	3.6

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	4.8	.0	.0	.0	4.8	
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	4.8	.0	.0	.0	4.8	76.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	28.6	23.8	.0	.0	.0	.0	52.4	
1-2	.0	23.8	4.8	.0	.0	.0	28.6	
3-4	.0	.0	14.3	.0	.0	.0	14.3	
5-6	.0	.0	4.8	.0	.0	.0	4.8	
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	28.6	47.6	23.8	.0	.0	.0	100.0	21

PERIOD: (OVER-ALL) 1951-1970

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	8.6	8.6	5.7	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	3
6-7	.0	.0	8.6	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
8-9	.0	.0	.0	.0	2.9	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
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	2.9	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	25.7	8.6	11.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	1
TOTAL	12	6	10	5	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	35	5
PCT	34.3	17.1	28.6	14.3	2.9	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1931-1971
(OVER-ALL) 1869-1971

AREA 0001 BELLE ISLE STRAIT
50.9N 57.1W

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	12.1	1.5	6.3	.0	.8	.0	.0	20.7	2.1	.0	14.8	.8	.8		.0	60.7
NE	16.4	.8	5.2	.0	.0	.0	.0	22.5	2.5	.0	19.3	1.3	.0		.0	54.4
E	31.2	.0	6.5	.0	.0	.0	.0	37.6	4.2	.0	14.8	.0	3.0		.0	40.3
SE	14.0	2.4	.5	.0	.0	.0	.0	16.9	.5	.0	27.5	.0	2.4		.0	52.7
S	7.3	3.4	2.9	.0	.0	.0	.0	13.6	2.2	.0	23.1	.5	2.5		.0	58.1
SW	5.1	1.2	2.0	.0	.0	.0	.0	8.3	1.5	.4	15.4	.6	3.1		.0	70.7
W	4.3	1.8	.7	.0	.0	.0	.0	6.8	2.3	.9	14.3	.0	.9		.0	74.8
NW	9.0	1.5	2.3	.0	.0	.0	.0	12.8	2.3	.0	9.4	1.5	.0		.0	74.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	11.9	.0	.0	.0	.0	.0	.0	11.9	.0	.0	21.4	.0	.0		.0	66.7
TOT PCT	10.7	1.5	3.2	.0	.1	.0	.0	15.5	2.0	.2	17.4	.6	1.6		.0	62.6
TOT OBS:	981															

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	12.5	1.1	2.2	.0	.0	.0	.4	16.2	1.8	.4	16.2	.7	1.5		.0	63.1
06&09	12.4	1.3	6.2	.0	.4	.0	.0	20.4	2.7	.4	18.1	.0	.0		.0	58.4
12&15	8.7	1.4	2.8	.0	.0	.0	.0	12.8	1.7	.0	19.1	.3	2.4		.0	63.5
18&21	8.4	2.0	1.2	.0	.0	.0	.0	11.6	2.0	.0	16.4	1.2	2.0		.0	66.8
TOT PCT	10.6	1.4	3.0	.0	.1	.0	.1	15.1	2.0	.2	17.5	.6	1.5		.0	63.1
TOT OBS:	1035															

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	4.6	4.8	1.2	.1	.1		11.8	12.7	11.4	10.0	13.7	9.6	14.0	13.8	9.0	10.2
NE	1.1	6.4	6.1	1.8	.3	*		15.8	13.0	17.9	19.0	15.2	10.6	14.2	12.9	17.5	15.3
E	.6	3.0	2.3	.9	.1	*		6.8	11.9	7.6	5.0	6.4	16.3	9.9	7.1	5.8	4.7
SE	.7	3.3	1.1	.1	.0	.0		5.2	8.5	3.9	6.0	4.2	3.8	5.0	1.8	9.4	3.0
S	.8	7.2	4.4	1.0	.0	.0		14.6	11.3	11.9	12.0	17.8	7.7	16.8	11.4	15.8	12.7
SW	1.4	7.7	10.6	3.8	.3	.0		23.7	13.9	23.7	29.0	16.8	30.8	20.2	35.3	24.0	35.6
W	.7	4.9	4.3	1.2	.2	.0		11.3	12.4	12.9	10.0	11.4	8.7	10.9	17.4	9.8	12.7
NW	.3	2.7	2.6	1.0	.0	*		6.6	12.9	6.2	5.0	6.7	8.7	8.7	.0	6.4	5.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.2							4.2	.0	4.5	4.0	7.6	3.8	4.2	.0	3.5	.0
TOT OBS	113	415	391	114	11	2	1046		12.0	223	50	171	52	236	56	199	59
TOT PCT	10.8	39.7	37.4	10.9	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	2.7	6.0	2.5	.5	.1		11.8	12.7	11.2	12.8	14.0	9.3
NE	3.8	7.2	3.9	.8	.1		15.8	13.0	18.1	14.1	14.0	16.8
E	2.0	3.2	1.4	.3	*		6.8	11.9	7.1	8.7	6.2	5.5
SE	2.1	2.7	.3	*	.0		5.2	8.5	4.3	4.1	4.4	7.9
S	3.7	8.0	2.5	.3	.0		14.6	11.3	11.9	15.5	15.8	13.1
SW	3.6	12.1	6.8	1.2	.0		23.7	13.9	24.6	20.1	23.1	26.6
W	3.0	5.2	2.5	.5	.0		11.3	12.4	12.4	10.8	12.2	9.7
NW	1.5	3.1	1.9	.2	*		6.6	12.9	6.0	7.2	7.0	6.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.2						4.2	.0	4.4	6.7	3.4	2.7
TOT OBS	278	497	227	41	3	1046		12.0	273	223	292	258
TOT PCT	26.6	47.5	21.7	3.9	.3		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1931-1971
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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	4.4	5.9	41.8	37.0	10.3	.4	.4	11.9	100.0	273
06&09	6.7	6.7	42.6	35.9	7.6	.4	.0	10.8	100.0	223
12&15	3.4	6.8	38.4	38.0	12.0	1.0	.3	12.2	100.0	292
18&21	2.7	7.0	36.4	38.4	13.2	2.3	.0	13.0	100.0	258
TOT	44	69	415	391	114	11	2	12.0		1046
PCT	4.2	6.6	39.7	37.4	10.9	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	1.5	.3	2.3	8.3		6.8
NE	1.2	1.1	2.7	11.6		6.9
E	.4	.4	.9	4.8		7.0
SE	.6	.2	1.7	3.4		6.6
S	2.5	1.2	4.2	7.0		6.0
SW	6.2	2.4	6.4	7.0		5.0
W	2.9	.9	3.1	3.1		5.1
NW	1.6	.5	1.9	3.0		5.6
VAR	.0	.0	.0	.0		.0
CALM	1.1	.3	.7	2.7		5.7
TOT OBS	126	51	167	358	702	6.0
TOT PCT	17.9	7.3	23.8	51.0	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	1.6	.2	1.8	1.0	3.0	.5	.3	.1	.4	.3	3.6	
NE	2.0	.7	.8	2.6	3.7	1.3	.7	.3	.2	.4	3.9	
E	.6	.2	1.1	1.2	1.1	.4	.4	.0	.0	.1	1.4	
SE	1.4	.4	.0	.4	.8	.5	.2	.2	.1	.1	1.9	
S	2.2	.6	.0	.4	2.3	1.6	.6	.1	.3	.5	6.3	
SW	2.8	.3	.1	.6	2.4	1.2	.4	.1	.2	.5	13.3	
W	1.0	.1	.0	.3	1.1	1.0	.4	.3	.2	.1	5.4	
NW	.5	.0	*	.4	1.5	.7	.2	.3	.1	.3	2.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9	.1	.3	.4	.3	.4	.0	.3	.0	.3	1.9	
TOT OBS	91	18	26	51	113	54	23	12	11	18	285	702
TOT PCT	13.0	2.6	3.7	7.3	16.1	7.7	3.3	1.7	1.6	2.6	40.6	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	2.6	3.9	4.0	4.0	4.0	4.1	4.1	4.3
= OR >5000	3.6	5.5	5.7	5.7	5.7	5.8	5.8	5.9
= OR >3500	4.8	8.3	8.6	8.6	8.7	8.8	9.0	9.1
= OR >2000	9.5	15.3	16.3	16.4	16.7	16.9	17.1	17.3
= OR >1000	15.3	27.8	30.7	31.8	32.3	32.6	32.9	33.1
= OR >600	17.0	32.0	36.7	38.4	39.4	39.8	40.2	40.5
= OR >300	17.4	33.4	39.4	41.9	42.8	43.4	43.8	44.1
= OR >150	17.5	34.0	40.2	43.4	45.0	45.6	46.3	46.5
= OR > 0	18.0	34.4	41.6	45.4	48.3	51.2	57.3	59.5
TOTAL	130	249	301	329	350	371	415	431

TOTAL NUMBER OF OBS: 724 PCT FREQ NH <5/8: 40.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
11.6	10.2	9.2	6.2	2.9	3.7	7.0	8.2	29.3	11.7	758

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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	.1	.4	.1	.1	.3	.4	.1	.0	.0	.1	1.4	
<1/2	NO PCP	.9	1.6	.3	1.1	2.0	2.3	1.1	.3	.0	.4	10.0	
	TOT %	1.0	1.9	.4	1.1	2.3	2.7	1.2	.3	.0	.5	11.4	
	PCP	.0	.7	.2	.1	.4	.3	.2	.1	.0	.0	2.0	
1/2<1	NO PCP	.2	.6	.3	.2	.6	.7	.3	.1	.0	.3	3.2	
	TOT %	.2	1.3	.5	.3	.9	1.0	.5	.2	.0	.3	5.2	
	PCP	.8	.2	.3	.0	.1	.1	.0	.1	.0	.2	1.7	
1<2	NO PCP	.3	.3	.2	.1	.5	.2	.0	.0	.0	.1	1.7	
	TOT %	1.1	.5	.5	.1	.6	.3	.0	.1	.0	.3	3.5	
	PCP	.7	.7	1.0	.1	.5	.1	.0	.2	.0	.2	3.5	
2<5	NO PCP	.4	.9	.3	.2	.5	1.2	.2	.2	.0	.1	3.9	
	TOT %	1.0	1.6	1.2	.3	1.0	1.2	.2	.4	.0	.3	7.3	
	PCP	.8	1.3	.8	.4	.8	.8	.4	.4	.0	.0	5.6	
5<10	NO PCP	3.5	3.3	1.7	1.3	3.6	5.9	3.7	1.7	.0	.6	25.4	
	TOT %	4.3	4.6	2.5	1.7	4.4	6.7	4.1	2.0	.0	.6	31.0	
	PCP	.2	.3	.2	.2	.0	.2	.1	.1	.0	.0	1.2	
10+	NO PCP	4.3	5.4	1.4	1.6	5.8	10.9	5.2	3.7	.0	2.2	40.4	
	TOT %	4.5	5.6	1.5	1.8	5.8	11.1	5.3	3.8	.0	2.2	41.6	
	TOT OBS												981
	TOT PCT	12.1	15.5	6.7	5.3	15.0	23.1	11.2	6.8	.0	4.3	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	.2	.1	.2	.1	.2	.0	.0	.0	.5	1.3	
<1/2	4-10	.5	.9	.1	.7	1.7	1.0	.5	.1	.0		5.6	
	11-21	.4	.6	.2	.2	.3	1.2	.6	.2	.0		3.7	
	22+	.1	.2	.0	.0	.1	.4	.2	.0	.0		1.0	
	TOT %	.9	1.9	.4	1.1	2.2	2.8	1.3	.3	.0	.5	11.6	
	0-3	.0	.1	.1	.0	.1	.1	.0	.0	.0	.3	.7	
1/2<1	4-10	.1	.5	.2	.3	.3	.2	.1	.1	.0		2.0	
	11-21	.1	.4	.2	.0	.3	.3	.3	.1	.0		1.8	
	22+	.0	.3	*	.0	.2	.3	.0	.0	.0		1.0	
	TOT %	.2	1.4	.6	.3	1.0	1.0	.4	.2	.0	.3	5.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
1<2	4-10	.1	.1	.3	*	.2	.0	.0	.0	.0		.7	
	11-21	.4	.3	.1	.0	.3	.3	.0	.0	.0		1.4	
	22+	.5	.1	.1	*	.2	*	.0	.1	.0		1.1	
	TOT %	1.0	.4	.5	*	.7	.3	.0	.1	.0	.3	3.5	
	0-3	.0	*	.1	*	.1	*	.1	.0	.0	.3	.7	
2<5	4-10	.4	.6	.7	.1	.6	.4	*	*	.0		2.9	
	11-21	.4	.9	.3	.1	.4	.6	*	.2	.0		3.0	
	22+	.2	.1	.2	.0	.0	.1	.0	.1	.0		.8	
	TOT %	1.0	1.6	1.3	.3	1.1	1.2	.2	.4	.0	.3	7.4	
	0-3	.5	.2	.1	*	.2	.2	.2	.1	.0	.6	2.3	
5<10	4-10	1.6	1.0	.8	1.1	2.3	1.5	1.5	.6	.0		10.5	
	11-21	1.5	2.4	1.2	.4	1.7	3.7	1.7	.8	.0		13.5	
	22+	.5	.9	.5	.1	.1	1.2	.6	.4	.0		4.3	
	TOT %	4.2	4.6	2.6	1.7	4.3	6.6	4.0	2.0	.0	.6	30.5	
	0-3	.5	.4	.1	.2	.3	.6	.4	.2	.0	2.3	5.1	
10+	4-10	1.9	3.5	.9	1.0	2.3	3.9	2.6	1.6	.0		17.7	
	11-21	2.0	1.4	.4	.4	2.7	4.3	1.8	1.4	.0		14.5	
	22+	.1	.4	.1	.0	.3	2.2	.6	.3	.0		4.3	
	TOT %	4.6	5.8	1.5	1.7	5.7	11.0	5.3	3.7	.0	2.3	41.6	
	TOT OBS												1003
	TOT PCT	12.0	15.7	7.0	5.2	15.0	22.9	11.3	6.7	.0	4.3	100.0	

PERIOD: (PRIMARY) 1931-1971
(OVER-ALL) 1869-1971

AREA 0001 BELLE ISLE STRAIT
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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	11.2	2.2	5.1	9.0	11.2	10.7	3.4	1.7	1.7	2.2	58.4	41.6	178
06&09	20.6	1.8	2.9	7.6	15.3	5.3	4.7	.6	.6	5.9	65.3	34.7	170
12&15	11.4	2.1	3.6	5.2	19.2	7.8	2.6	2.1	3.1	1.6	58.5	41.5	193
18&21	8.7	3.6	2.6	7.2	16.9	6.2	2.1	2.1	.5	1.5	53.3	46.7	195
TOT	94	18	26	53	116	59	23	12	11	20	432	304	736
PCT	12.8	2.4	3.5	7.2	15.8	8.0	3.1	1.6	1.5	2.7	58.7	41.3	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	10.8	7.9	4.0	6.5	35.4	35.4	277
06&09	15.2	2.6	3.9	7.0	28.3	43.0	230
12&15	12.2	5.8	4.4	6.1	29.2	42.4	295
18&21	9.0	4.3	1.2	9.0	31.3	45.3	256
TOT	124	56	36	75	329	438	1058
PCT	11.7	5.3	3.4	7.1	31.1	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
00&03	11.5	23.6	35.1	25.9	39.1	174
06&09	21.6	26.3	38.3	28.1	33.5	167
12&15	12.0	19.4	30.4	29.3	40.3	191
18&21	8.9	17.7	30.7	27.6	41.7	192
TOT	96	156	242	201	281	724
PCT	13.3	21.5	33.4	27.8	38.8	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
60/64	.0	.0	.2	.0	.2	.3	.2	.2	6	.9
55/59	.0	.0	.0	.2	.6	1.6	1.3	.5	26	4.1
50/54	.0	.0	.0	.5	1.3	3.8	6.7	4.4	106	16.6
45/49	.0	.0	.2	.3	2.0	4.7	10.0	16.7	217	34.0
40/44	.0	.0	.0	.2	.8	3.9	8.6	20.2	215	33.6
35/39	.0	.0	.0	.0	.0	.6	2.5	7.4	67	10.5
30/34	.0	.0	.0	.0	.0	.0	.2	.2	2	.3
TOTAL	0	0	2	7	31	95	188	316	639	100.0
PCT	.0	.0	.3	1.1	4.9	14.9	29.4	49.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	.1	.8	.0	.0	.0	.0
.7	.2	.0	.2	.6	1.5	.5	.2	.0	.2
.9	1.7	1.2	.8	3.9	4.4	2.1	.9	.0	.8
1.9	4.0	2.6	2.0	6.2	10.5	3.6	1.5	.0	1.7
5.5	5.6	3.0	1.9	3.8	5.8	3.7	3.2	.0	1.1
2.9	3.1	.8	.5	.3	.7	.6	1.3	.0	.3
.2	.2	.0	.0	.0	.0	.0	.0	.0	.0
12.0	14.7	7.6	5.4	14.9	23.7	10.5	7.0	.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	62	57	55	45	38	36	35	45.8	292
06&09	66	55	52	44	37	34	33	44.3	234
12&15	64	61	55	45	38	36	34	45.9	307
18&21	68	64	58	48	39	37	34	48.1	262
TOT	68	61	56	46	38	36	33	46.1	1095

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	1.2	5.9	13.5	29.4	50.0	88	170
06&09	.0	.6	1.3	10.8	29.1	58.2	90	158
12&15	.0	1.7	5.1	15.4	26.3	51.4	87	175
18&21	.0	2.5	8.1	19.3	31.7	38.5	85	161
TOT	0	10	34	98	193	329	88	664

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PERIOD: (PRIMARY) 1931-1971
(OVER-ALL) 1869-1971

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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	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WO FOG
>30	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
23/25	.0	.0	.0	.0	.0	.0	.2	.1	.1	4	.0	.4
20/22	.0	.0	.0	.0	.0	.4	.4	.2	.0	10	.0	1.1
17/19	.0	.0	.0	.0	.4	.8	.2	.2	.1	16	.0	1.8
14/16	.0	.0	.0	.3	1.1	1.0	.4	.0	.0	26	.4	2.4
11/13	.0	.0	.1	1.4	1.7	1.1	.7	.1	.0	46	.6	4.5
9/10	.0	.0	1.0	1.7	1.4	1.3	.9	.1	.0	58	.9	5.5
7/8	.0	.1	2.0	3.4	3.2	.8	.1	.0	.0	87	1.7	7.9
6	.0	.3	1.4	1.7	1.2	.2	.1	.0	.0	45	1.0	4.0
5	.2	.8	2.5	2.0	2.2	.3	.0	.0	.0	73	1.8	6.3
4	.0	1.4	2.6	2.4	3.0	.7	.0	.0	.0	92	2.6	7.5
3	.1	2.2	4.4	3.2	2.0	.3	.0	.0	.0	111	2.5	9.7
2	.2	2.6	3.2	3.0	1.2	.4	.0	.0	.0	98	2.4	8.4
1	.0	1.5	3.3	3.2	1.0	.2	.0	.0	.0	84	1.5	7.7
0	.3	1.0	2.4	2.5	1.2	.0	.0	.0	.0	68	.9	6.6
-1	.1	1.5	1.5	.8	.1	.1	.0	.0	.0	38	.4	3.7
-2	.3	.3	.3	.6	.1	.0	.0	.0	.0	15	.4	1.2
-3	.1	.9	1.1	.0	.0	.0	.0	.0	.0	19	.6	1.5
-4	.0	.3	.1	.1	.0	.0	.0	.0	.0	5	.1	.4
-5	.0	.1	.1	.0	.0	.0	.0	.0	.0	2	.0	.2
-6	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-7/-8	.0	.4	.0	.0	.0	.0	.0	.0	.0	4	.0	.4
-9/-10	.0	.2	.0	.1	.0	.0	.0	.0	.0	3	.0	.3
-11/-13	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	13	127	238	240	180	71	28	7	4	908	162	746
PCT	1.4	14.0	26.2	26.4	19.8	7.8	3.1	.8	.4	100.0	17.8	82.2

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	.3	2.4	.0	.0	.0	.0	2.7
1-2	.9	1.2	.9	.0	.0	.0	2.9
3-4	.0	.0	2.8	.0	.0	.0	2.8
5-6	.0	.0	.4	.4	.0	.0	.9
7	.0	.0	.0	.3	.0	.0	.3
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	1.2	3.6	4.1	1.2	.0	.0	10.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.1	.4	.0	.0	.0	2.0
1-2	.0	2.7	1.5	.0	.0	.0	4.2
3-4	.0	1.0	4.2	.0	.0	.0	5.2
5-6	.0	1.7	3.0	.0	.0	.0	4.7
7	.0	.0	.4	.6	.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	.4	.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	.5	6.5	9.6	.6	.4	.0	17.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.8	.0	.0	.0	1.5
1-2	.0	.9	.6	.0	.0	.0	1.5
3-4	.0	.8	.8	.0	.0	.0	1.5
5-6	.0	.4	.0	.0	.0	.0	.4
7	.0	.0	.0	.6	.0	.0	.6
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	2.8	2.6	.6	.0	.0	6.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.1	.0	.0	.0	.8
1-2	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	.1	.1	.0	.0	.0	.2
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.4	.1	.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	1.7	1.1	.1	.0	.0	2.9

PERIOD: (OVER-ALL) 1963-197)

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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	2.5	.8	.0	.0	.0	3.2
1-2	.0	3.4	1.7	.0	.0	.0	5.2
3-4	.0	.3	.8	.4	.0	.0	1.5
5-6	.0	.4	1.3	.0	.0	.0	1.7
7	.0	.0	.6	.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	.0	6.7	5.2	1.1	.0	.0	12.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	4.1	.5	.0	.0	.0	5.5
1-2	.4	3.4	3.0	.0	.0	.0	6.9
3-4	.0	1.7	9.1	1.0	.0	.0	11.7
5-6	.0	.0	1.8	1.3	.0	.0	3.1
7	.0	.0	1.6	1.1	.0	.0	2.7
8-9	.0	.0	.0	.4	.9	.0	1.3
10-11	.0	.0	.0	.9	.0	.0	.9
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	1.3	9.3	16.1	4.6	1.0	.0	32.2

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	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	.4	1.5	1.1	.0	.0	3.0
5-6	.0	.4	1.1	.0	.0	.0	1.5
7	.0	.0	.3	.8	.0	.0	1.1
8-9	.0	.0	.0	.4	.0	.0	.4
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	3.1	2.9	2.3	.3	.0	8.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.3	.4	.0	.0	.0	1.7	
1-2	.0	.0	.4	.0	.0	.0	.4	
3-4	.0	.0	1.5	.1	.0	.0	1.6	
5-6	.0	.0	.5	.9	.0	.0	1.4	
7	.0	.0	.0	1.0	.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	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	2.9	1.9	.0	.0	6.1	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	7.4	14.0	2.9	.0	.0	.0	24.3	
1-2	1.6	13.6	7.8	.0	.0	.0	23.0	
3-4	.0	4.5	19.8	2.5	.0	.0	26.7	
5-6	.0	2.9	8.2	2.5	.0	.0	13.6	
7	.0	.0	3.3	4.9	.0	.0	8.2	
8-9	.0	.0	.4	.8	.8	.0	2.1	
10-11	.0	.0	.0	1.2	.0	.0	1.2	
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	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.1	35.0	42.4	11.9	1.6	.0	100.0	243

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	7.2	15.9	15.9	6.0	3.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	245	3
6-7	.4	.8	4.2	3.8	2.8	1.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	5
8-9	.2	.4	1.0	.4	.8	.4	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	6
10-11	.0	.2	.2	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
12-13	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
>13	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
INDET	26.4	1.4	2.4	.8	.4	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	161	1
TOTAL	172	94	121	57	36	12	6	3	1	1	0	0	0	0	0	0	0	0	0	503	3
PCT	34.2	18.7	24.1	11.3	7.2	2.4	1.2	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1910-1971
(OVER-ALL) 1869-1971

AREA 0001 BELLE ISLE STRAIT
50.8N 57.1W

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	7.0	2.3	4.7	.0	.0	.0	.0	13.4	4.4	.0	12.9	.8	1.0		.0	67.5
NE	10.7	1.5	6.1	.0	.0	.0	.0	15.7	2.1	.6	20.4	.5	.4		.0	60.5
E	8.1	.0	4.2	.0	.0	.0	.0	11.3	.7	.4	24.3	.5	.0		.0	63.1
SE	13.9	1.7	6.9	.0	.0	.0	.0	18.7	.4	.2	26.0	.8	2.3		.0	51.8
S	8.3	.6	2.7	.0	.0	.0	.0	10.6	1.2	1.2	27.9	.5	4.2		.0	55.5
SW	3.8	1.4	2.1	.0	.0	.0	.0	7.2	1.4	.5	20.8	.9	4.1		.0	65.4
W	2.7	1.6	.7	.0	.0	.0	.0	5.0	.8	.0	19.6	.0	1.6		.0	72.9
NW	4.5	2.9	1.0	.0	.0	.0	.0	8.6	2.4	.0	8.3	.2	.5		.0	80.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	4.7	.0	.0	.0	.0	.0	.0	4.7	2.3	.0	46.5	.0	.0		.0	46.5
TOT PCT	6.4	1.3	3.1	.0	.0	.0	.0	9.9	1.5	.5	22.0	.6	2.6		.0	63.2
TOT OBS:	2065															

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	6.7	2.0	3.0	.0	.0	.0	.0	10.6	1.7	.8	21.3	.6	2.7		.0	62.8
06&09	7.7	.7	3.6	.0	.0	.0	.0	11.2	1.2	.7	22.0	.5	1.9		.0	62.7
12&15	6.4	1.3	2.4	.0	.0	.0	.0	9.3	1.0	.3	28.4	.4	2.4		.0	58.4
18&21	5.2	1.4	2.7	.0	.0	.0	.0	8.4	1.4	.4	20.1	.5	3.0		.0	66.3
TOT PCT	6.4	1.4	2.8	.0	.0	.0	.0	9.8	1.4	.5	23.2	.5	2.5		.0	62.3
TOT OBS:	2294															

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	2.2	1.5	.5	*	.0		4.7	11.2	4.5	3.2	5.2	9.3	5.5	4.5	3.5	3.2
NE	1.2	5.2	4.5	1.0	.0	.0		11.9	11.7	10.1	15.0	10.6	15.9	13.6	10.8	11.8	9.3
E	1.3	3.3	1.8	.3	.0	.0		6.7	8.7	7.6	9.6	6.5	4.2	5.8	6.4	6.1	7.3
SE	.6	2.9	1.9	.3	*	.0		5.9	9.8	6.4	5.2	4.1	5.8	5.9	7.8	7.3	3.5
S	1.3	7.2	8.4	1.6	.0	.0		18.5	12.3	18.0	15.8	20.3	15.9	16.9	14.8	23.7	19.7
SW	1.9	11.6	16.3	4.4	.2	.0		34.6	13.5	37.1	26.8	34.2	27.6	34.0	39.3	34.1	38.9
W	.9	3.9	4.5	.8	.1	.0		10.2	12.0	11.1	13.8	10.6	11.0	9.6	10.0	7.0	11.2
NW	.6	2.4	1.6	.4	*	.0		5.0	10.6	3.6	5.9	4.2	5.7	6.5	5.1	5.1	4.9
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	4.5	4.3	4.5	2.1	1.5	1.5	2.0
TOT OBS	240	861	901	209	9	0	2220		11.8	456	177	255	154	437	200	340	201
TOT PCT	10.8	38.8	40.6	9.4	.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	1.6	2.0	1.0	.1	.0		4.7	11.2	4.1	6.7	5.2	3.4
NE	3.1	5.8	2.6	.4	.0		11.9	11.7	11.5	12.6	12.7	10.9
E	3.1	2.8	.8	*	.0		6.7	8.7	8.2	5.6	6.0	6.6
SE	2.6	2.6	.5	.2	.0		5.9	9.8	6.0	4.8	6.5	5.9
S	4.0	9.4	4.7	.4	.0		18.5	12.3	17.4	18.6	16.2	22.2
SW	6.0	17.3	10.2	1.0	.0		34.6	13.5	34.2	31.7	35.6	35.9
W	2.0	6.0	1.9	.3	.0		10.2	12.0	11.8	10.8	9.7	8.5
NW	1.7	2.3	.9	.1	.0		5.0	10.6	4.2	4.8	6.1	5.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	2.5	4.4	1.9	1.7
TOT OBS	589	1072	501	58	0	2220		11.8	633	409	637	541
TOT PCT	26.5	48.3	22.6	2.6	.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1910-1971
(OVER-ALL) 1869-1971

AREA 0001 BELLE ISLE STRAIT
50.8N 57.1W

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	2.5	9.8	38.2	39.8	9.5	.2	.0	11.3	100.0	633
06&09	4.4	9.0	42.1	37.4	6.4	.7	.0	10.8	100.0	409
12&15	1.9	8.9	38.3	41.6	8.8	.5	.0	11.8	100.0	637
18&21	1.7	5.4	37.5	42.7	12.4	.4	.0	13.0	100.0	541
TOT	55	185	861	901	209	9	0	11.8		2220
PCT	2.5	8.3	38.8	40.6	9.4	.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	.6	1.1	2.5		5.6
NE	1.7	.9	2.2	6.2		6.2
E	.3	1.0	1.4	2.7		6.4
SE	.2	.6	1.2	3.7		6.9
S	5.3	2.9	2.7	10.5		5.4
SW	11.0	6.6	8.5	10.3		4.6
W	2.7	1.4	2.2	1.9		4.5
NW	1.0	.8	1.2	1.6		5.1
VAR	.0	.0	.0	.0		.0
CALM	.2	.2	.2	1.3		6.3
TOT OBS	282	180	249	491	1202	5.3
TOT PCT	23.5	15.0	20.7	40.8	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	300 499	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.2	.0	.5	.9	.7	.2	.2	.1	.1	2.2	
NE	1.3	.3	.4	1.7	1.4	1.0	.2	.3	.2	.3	3.8	
E	.6	*	.3	.6	1.1	.5	.4	*	.0	.1	1.7	
SE	1.3	.1	.2	.4	.7	.3	.3	.2	.1	.2	1.9	
S	3.7	.1	.6	2.1	1.6	1.9	.1	.1	.3	.2	10.8	
SW	3.2	.3	.7	1.7	3.2	1.9	1.0	.2	.7	.9	22.4	
W	.5	.0	.1	.6	.5	.8	.3	.1	*	.1	5.2	
NW	.0	.1	.2	.6	.3	.6	.2	.0	.0	.0	2.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.7	.0	.1	.1	.1	.3	.0	.0	.0	.0	.6	
TOT OBS	140	13	31	100	119	96	33	13	18	23	616	1202
TOT PCT	11.6	1.1	2.6	8.3	9.9	8.0	2.7	1.1	1.5	1.9	51.2	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	2.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4
= OR >5000	3.0	4.2	4.4	4.4	4.4	4.5	4.5	4.5
= OR >3500	4.5	6.6	7.3	7.3	7.3	7.4	7.4	7.4
= OR >2000	7.9	12.7	14.7	15.0	15.0	15.1	15.1	15.1
= OR >1000	11.8	20.4	23.7	24.3	24.7	24.8	25.0	25.0
= OR >600	14.2	26.1	30.8	31.7	32.4	32.9	33.3	33.3
= OR >300	15.0	27.6	32.8	33.9	34.6	35.2	35.9	35.9
= OR >150	15.1	28.0	33.2	34.5	35.3	35.9	36.8	36.8
= OR > 0	15.2	28.3	33.9	35.7	37.3	40.0	45.4	48.7
TOTAL	186	347	415	437	457	489	556	596

TOTAL NUMBER OF OBS: 1224 PCT FREQ NH <5/8: 51.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	9.0	TOTAL OBS
15.3	13.2	8.8	7.8	5.1	3.8	6.4	5.5	25.2	9.0	1303

JULY

PERIOD: (PRIMARY) 1910-1971
(OVER-ALL) 1869-1971

TABLE 8

AREA 0001 BELLE ISLE STRAIT
50.8N 57.1W

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	*	.1	.1	.1	.2	.5	*	*	.0	.0	1.2	
<1/2	NO PCP	.2	1.5	1.0	1.0	3.3	4.7	1.3	.4	.0	.9	14.3	
	TOT %	.3	1.6	1.1	1.1	3.5	5.3	1.3	.4	.0	.9	15.5	
	PCP	.1	.1	.1	.1	.2	.3	*	*	.0	.0	.9	
1/2<1	NO PCP	.2	.4	.3	.2	.5	1.4	.7	*	.0	*	3.8	
	TOT %	.3	.6	.3	.3	.7	1.7	.8	*	.0	*	4.7	
	PCP	*	.1	*	*	.1	.4	.1	.0	.0	.0	.8	
1<2	NO PCP	.1	.2	.2	*	.4	.6	.1	*	.0	.0	1.6	
	TOT %	.1	.3	.2	.1	.4	.9	.3	*	.0	.0	2.4	
	PCP	.1	.2	*	.2	.6	.3	.0	.0	.0	.0	1.5	
2<5	NO PCP	.2	.3	.2	.2	1.1	1.9	.4	*	.0	.0	4.4	
	TOT %	.4	.5	.3	.4	1.7	2.7	.4	*	.0	.0	5.9	
	PCP	.3	1.1	.5	.5	.8	.8	.3	.4	.0	*	4.7	
5<10	NO PCP	1.5	4.0	2.4	1.8	5.2	8.8	2.7	1.8	.0	.5	28.8	
	TOT %	1.8	5.0	3.0	2.3	6.0	9.6	3.0	2.2	.0	.6	33.5	
	PCP	*	.2	*	.2	.1	.2	.0	*	.0	*	.8	
10+	NO PCP	1.9	3.8	2.0	1.5	6.2	14.6	4.5	2.3	.0	.5	37.3	
	TOT %	1.9	4.0	2.0	1.7	6.3	14.8	4.5	2.3	.0	.5	38.1	
	TOT OBS												2066
	TOT PCT	4.7	12.0	6.9	5.8	18.7	34.5	10.3	5.0	.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
	0-3	.1	.2	.4	.2	.3	.5	.3	.1	.0	.9	3.0	
<1/2	4-10	.2	.7	.5	.7	1.2	2.5	.6	.2	.0		6.5	
	11-21	*	.6	.1	.2	1.7	1.7	.3	.1	.0		4.8	
	22+	.0	.0	*	.1	.2	.5	.1	.0	.0		.9	
	TOT %	.3	1.5	1.1	1.1	3.4	5.2	1.3	.4	.0	.9	15.3	
	0-3	*	.2	.2	*	*	*	*	.0	.0	*	.7	
1/2<1	4-10	.1	.2	.1	.2	.3	.9	.2	*	.0		2.0	
	11-21	*	*	*	*	.2	.6	.5	.0	.0		1.5	
	22+	.1	.1	*	*	*	.1	.0	*	.0		.4	
	TOT %	.2	.6	.3	.3	.7	1.6	.7	*	.0	*	4.5	
	0-3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	4-10	.0	*	.1	.1	.2	.3	.2	*	.0		.8	
	11-21	*	.1	*	.1	.3	.4	*	.0	.0		1.0	
	22+	.0	.1	*	.0	*	.2	.0	.0	.0		.4	
	TOT %	.2	.3	.2	.2	.4	.9	.2	*	.0	.0	2.4	
	0-3	.0	*	.0	*	.1	.0	.0	.0	.0	*	.2	
2<5	4-10	.2	.2	.2	.1	.5	.5	.2	*	.0		1.9	
	11-21	.1	.2	*	.1	.8	1.2	.2	*	.0		2.8	
	22+	.1	*	*	.1	.2	.5	.0	*	.0		1.0	
	TOT %	.4	.5	.2	.4	1.6	2.3	.4	*	.0	*	5.9	
	0-3	.1	.4	.4	.3	.5	.3	.3	.3	.0	.7	3.3	
5<10	4-10	.8	2.3	1.3	1.0	2.3	3.1	1.0	1.0	.0		12.9	
	11-21	.6	1.8	1.1	.9	2.8	5.1	1.6	.7	.0		14.5	
	22+	.1	.6	.1	.1	.3	1.2	.2	.2	.0		2.8	
	TOT %	1.7	5.0	2.9	2.3	5.9	9.8	3.1	2.1	.0	.7	33.4	
	0-3	.1	.3	.2	.1	.4	1.0	.3	.2	.0	.7	3.2	
10+	4-10	.9	1.8	1.2	1.0	2.6	4.1	1.7	1.1	.0		14.4	
	11-21	.7	1.8	.5	.5	2.5	7.6	2.0	.9	.0		16.5	
	22+	.2	.2	*	*	.9	2.2	.6	.2	.0		4.4	
	TOT %	1.9	4.2	2.0	1.6	6.3	14.8	4.6	2.4	.0	.7	38.5	
	TOT OBS												2143
	TOT PCT	4.7	12.1	6.7	5.8	18.4	34.6	10.3	5.0	.0	2.4	100.0	

JULY

PERIOD: (PRIMARY) 1910-1971
(OVER-ALL) 1869-1971

AREA 0001 BELLE ISLE STRAIT
50.8N 57.1W

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	11.9	.6	2.2	5.8	10.3	8.3	3.8	1.3	1.0	1.9	47.1	52.9	312
06&09	13.7	.8	3.7	10.0	9.1	5.0	2.9	.8	2.1	1.2	49.4	50.6	241
12&15	12.0	.9	2.4	11.1	10.2	7.2	2.7	.6	.6	2.4	50.0	50.0	334
18&21	9.5	1.6	1.9	6.3	9.3	9.8	1.9	1.4	2.5	1.6	45.8	54.2	367
TOT	145	13	31	102	122	98	35	13	19	23	601	653	1254
PCT	11.6	1.0	2.5	8.1	9.7	7.8	2.8	1.0	1.5	1.8	47.9	52.1	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	15.2	5.3	2.3	5.7	39.2	32.4	666
06&09	16.4	5.8	1.4	4.2	28.4	43.9	433
12&15	19.9	5.6	3.3	5.9	31.7	33.7	700
18&21	13.5	4.0	2.2	7.8	31.4	41.1	579
TOT	389	122	57	142	788	880	2378
PCT	16.4	5.1	2.4	6.0	33.1	37.0	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	12.4	17.3	29.3	21.8	48.9	307
06&09	14.2	19.7	31.8	21.5	46.8	233
12&15	12.5	20.4	35.6	19.1	45.3	329
18&21	10.1	16.1	30.4	19.7	49.9	355
TOT	148	223	389	250	585	1224
PCT	12.1	18.2	31.8	20.4	47.8	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	.1	.1	.0	.0	.0	.0	3	.2
70/74	.0	.0	.0	.1	.1	.1	.0	.0	5	.4
65/69	.0	.0	.0	.1	.2	.5	.4	.8	27	1.9
60/64	.0	.0	.0	.1	.5	2.3	3.5	2.7	125	9.0
55/59	.0	.0	.0	.1	.5	4.4	13.8	13.8	451	32.5
50/54	.0	.0	.1	.1	.9	2.7	11.9	16.5	446	32.2
45/49	.0	.0	.0	.1	.3	1.4	4.9	11.3	250	18.0
40/44	.0	.0	.0	.0	.0	.4	1.1	4.0	77	5.6
35/39	.0	.0	.0	.0	.0	.0	.0	.2	3	.2
TOTAL	0	0	2	8	35	166	492	684	1387	100.0
PCT	.0	.0	.1	.6	2.5	12.0	35.5	49.3		

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
.1	.0	.0	.0	.0	.3	.0	.0	.0	.0
.0	.1	.1	*	.4	1.0	.2	*	.0	.0
.1	.3	.3	.6	3.1	3.6	.7	.2	.0	.1
1.1	2.6	1.7	2.0	7.7	13.3	2.5	.9	.0	.7
.9	3.0	2.0	2.2	5.0	12.8	3.6	1.6	.0	1.2
1.5	3.0	1.4	1.0	3.3	4.2	1.8	1.5	.0	.3
.8	1.0	.6	.3	.5	1.0	.6	.5	.0	.4
.0	.1	.0	.0	.0	.0	.1	.0	.0	.1
4.5	10.1	6.1	6.1	20.0	36.2	9.4	4.7	.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	74	63	59	52	43	40	38	51.8	688
06&09	69	63	58	51	42	39	37	50.9	448
12&15	75	65	62	53	43	41	35	52.7	718
18&21	78	68	64	55	45	42	36	54.9	587
TOT	78	66	62	53	43	40	35	52.6	2441

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	1.3	9.2	34.2	54.6	90	392
06&09	.0	.0	.0	6.7	29.5	63.9	92	285
12&15	.0	.5	2.5	13.4	36.8	46.9	88	397
18&21	.0	1.3	5.4	16.3	40.1	37.0	86	387
TOT	0	10	36	171	519	725	89	1461

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PERIOD: (PRIMARY) 1910-1971
(OVER-ALL) 1869-1971

AREA 0001 BELLE ISLE STRAIT
50.8N 57.1W

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	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
26/30	.0	.0	.0	.0	.0	*	.1	*	.0	.0	.0	5	*	.2
23/25	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	*	7	*	.3
20/22	.0	.0	.0	.0	*	.3	.4	*	*	.1	*	21	*	1.0
17/19	.0	.0	.0	.2	.2	.4	.1	.0	*	.0	.0	21	.3	.7
14/16	.0	.0	.1	.4	.6	.6	.2	.2	.1	.0	.0	48	.6	1.8
11/13	.0	*	.2	.5	1.6	.5	.7	.5	*	.0	.0	85	1.4	2.8
9/10	.0	*	.4	1.4	1.5	1.0	.7	.2	.1	.0	.0	111	1.1	4.4
7/8	.0	.2	1.1	3.0	2.6	2.0	1.0	.1	.0	.0	.0	204	2.6	7.5
6	*	.2	.4	1.3	1.8	1.1	.5	.0	.0	.0	.0	113	1.3	4.3
5	.0	.6	1.5	2.6	2.2	2.1	.5	.0	.0	.0	.0	192	2.1	7.4
4	*	.3	1.9	2.9	3.0	2.0	.3	.0	.0	.0	.0	210	2.0	8.4
3	.1	.4	1.9	3.7	3.9	2.5	.3	.0	.0	.0	.0	253	2.3	10.2
2	*	1.0	1.7	2.9	3.2	1.7	.4	.0	.0	.0	.0	222	2.0	9.0
1	.1	.6	2.6	2.8	3.4	1.5	.0	.0	.0	.0	.0	224	3.2	7.9
0	*	.7	1.3	1.9	2.2	.5	*	.0	.0	.0	.0	136	1.9	4.8
-1	*	.4	.8	1.0	1.1	*	.0	.0	.0	.0	.0	69	.7	2.7
-2	.1	.4	.2	.6	.3	*	.0	.0	.0	.0	.0	36	.4	1.3
-3	.2	.1	.1	.5	.2	.1	.0	.0	.0	.0	.0	27	.2	1.1
-4	.0	.2	.2	.2	.1	*	.0	.0	.0	.0	.0	18	.3	.6
-5	*	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	10	.1	.4
-6	.0	.0	*	.1	*	*	.0	.0	.0	.0	.0	5	*	.2
-7/-8	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	2	*	*
-9/-10	*	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	5	.0	.2
-11/-13	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	20	116	296	534	569	341	113	24	8	2	2	2025	463	1562
PCT	1.0	5.7	14.6	26.4	28.1	16.8	5.6	1.2	.4	.1	.1	100.0	22.9	77.1

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	.3	.9	.0	.0	.0	.0	1.1
1-2	.0	.9	.6	.0	.0	.0	1.4
3-4	.0	.1	.3	.2	.0	.0	.6
5-6	.0	.2	.5	.3	.0	.0	1.0
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	.3	2.0	1.6	.5	.0	.0	4.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.2	.2	.0	.0	.0	1.7
1-2	.2	2.5	1.6	.0	.0	.0	4.3
3-4	.0	1.1	2.6	.2	.0	.0	4.0
5-6	.0	.2	.9	.3	.0	.0	1.4
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	.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	.5	5.1	5.6	.7	.0	.0	11.8

F

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.3	.0	.0	.0	1.4
1-2	.0	2.0	.6	.0	.0	.0	2.6
3-4	.0	.4	.8	.3	.0	.0	1.5
5-6	.0	.1	.2	.0	.0	.0	.3
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	3.4	1.8	.5	.0	.0	5.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.0	.0	.0	.0	.9
1-2	.0	1.4	.4	.0	.0	.0	1.8
3-4	.0	.4	1.1	.2	.0	.0	1.7
5-6	.0	*	*	.0	.0	.0	.1
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	.3	2.5	1.6	.2	.0	.0	4.5

PERIOD: (OVER-ALL) 1963-1971

JULY

AREA 0901 BELLE ISLE STRAIT
50.8N 57.1W

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	2.0	.3	.0	.0	.0	3.1	1.7	2.5	.6	.0	.0	.0	4.7
1-2	.0	2.9	2.9	.0	.0	.0	5.8	.9	4.5	5.0	.0	.0	.0	9.6
3-4	.0	.8	5.1	.9	.0	.0	6.8	.0	2.2	7.5	2.2	.0	.0	11.9
5-6	.0	.5	1.7	.6	.0	.0	2.8	.0	.9	5.0	2.5	.0	.0	8.3
7	.0	.0	.4	.3	.0	.0	.7	.0	.0	1.7	1.8	.0	.0	3.4
8-9	.0	.0	.1	.1	.0	.0	.3	.0	.0	.6	.4	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.2	10.6	2.0	.0	.0	19.5	1.9	10.0	20.3	7.2	.2	.0	39.5

	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	1.3	.3	.0	.0	.0	1.7	.0	.4	*	.0	.0	.0	.5	
1-2	.0	1.0	.7	.0	.0	.0	1.7	.0	.7	.3	.0	.0	.0	1.0	
3-4	.2	.7	1.2	.6	.0	.0	2.7	.0	.4	.4	.0	.0	.0	.8	
5-6	.0	.1	1.4	.0	.0	.0	1.5	.0	.0	.4	.6	.0	.0	.9	
7	.0	.0	.4	.3	.0	.0	.7	.0	.0	.0	.2	.0	.0	.2	
8-9	.0	.0	.0	.2	.2	.0	.3	.0	.0	.0	.2	.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	.3	3.2	4.0	1.1	.2	.0	8.8	.0	1.5	1.2	.9	.0	.0	3.6	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	7.0	9.5	1.7	.0	.0	.0	18.2	
1-2	.7	15.5	11.9	.0	.0	.0	28.0	
3-4	.3	6.0	18.7	4.8	.0	.0	29.5	
5-6	.0	2.0	9.8	4.2	.0	.0	16.0	
7	.0	.0	3.0	2.7	.0	.0	5.7	
8-9	.2	.0	.7	.8	.2	.0	1.8	
10-11	.0	.0	.0	.2	.0	.0	.2	
12	.0	.0	.0	.0	.2	.0	.2	
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	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	33.1	45.7	12.7	.3	.0	100.0	599

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	5.5	19.0	25.6	9.4	2.3	1.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	565	3
6-7	.0	1.3	6.4	6.7	2.2	.8	.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	161	5
8-9	.0	.0	.9	1.3	1.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	6
10-11	.0	.6	.4	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	4
12-13	.0	.0	1.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	4
>13	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
INDET	5.5	2.6	2.2	.9	.4	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	107	2
TOTAL	98	210	330	167	60	22	2	5	2	1	0	0	0	0	0	0	0	0	0	897	3
PCT	10.9	23.4	36.8	18.6	6.7	2.5	.2	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1897-1970
(OVER-ALL) 1869-1970

AREA 0001 BELLE ISLE STRAIT
50.8N 57.0W

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	7.4	3.1	6.1	.0	.0	.0	1.0	16.3	1.9	.5	11.3	.0	1.7		.0	68.8
NE	10.1	3.7	4.9	.0	.0	.0	.0	18.7	2.1	.0	9.1	.3	1.9		.0	67.9
E	13.5	6.1	9.7	.0	.0	.0	.0	29.2	1.7	.0	22.3	.5	.9		.0	45.4
SE	19.7	4.4	3.8	.0	.0	.0	.0	27.9	2.6	.8	16.3	.7	.5		.0	51.9
S	11.5	2.9	2.9	.0	.0	.0	.0	17.3	1.6	.9	15.5	.6	1.7		.0	62.6
SW	5.7	1.9	2.0	.0	.0	.0	.1	9.6	1.9	.8	14.3	.4	1.4		.0	71.9
W	2.2	1.8	2.0	.0	.0	.0	.3	6.4	.6	.3	12.7	.0	.9		.0	79.1
NW	5.1	1.7	3.5	.0	.0	.0	.6	10.6	2.3	.0	8.3	.0	.0		.6	78.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	4.0	2.0	.0	.0	.0	.0	.0	6.0	.0	.0	30.0	2.0	6.0		.0	56.0
TOT PCT	8.3	2.9	3.7	.0	.0	.0	.2	14.9	1.7	.5	14.1	.4	1.4		*	67.2
TOT OBS:	2436															

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	8.2	3.6	2.5	.0	.0	.0	.4	14.6	1.4	.5	15.1	.1	1.3		.0	67.1
06609	10.4	3.0	3.6	.0	.0	.0	.0	16.5	3.2	1.4	13.3	.2	.4		.0	65.3
12615	7.1	2.9	4.6	.0	.0	.0	.1	14.4	.8	.3	17.7	.5	1.4		.1	65.1
18621	6.8	2.3	3.6	.0	.0	.0	.3	13.0	1.6	.2	14.4	.5	1.9		.0	68.5
TOT PCT	7.9	3.0	3.6	.0	.0	.0	.2	14.6	1.6	.5	15.4	.3	1.3		*	66.5
TOT OBS:	2629															

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	3.3	2.7	.6	.2	*		8.1	11.7	7.8	5.0	7.0	10.7	9.9	7.6	8.0	6.7
NE	1.0	5.3	4.2	1.2	.4	.0		11.9	12.6	11.0	10.8	11.4	10.5	13.0	10.8	14.4	11.8
E	1.2	4.6	2.4	.5	.1	.0		8.8	10.0	8.0	10.8	5.6	8.9	9.2	12.4	6.7	13.9
SE	.9	3.0	1.9	.3	.0	.0		6.2	9.6	6.2	5.4	6.4	4.6	6.3	8.5	4.3	8.0
S	1.4	6.0	5.4	1.5	.1	.0		14.4	11.9	13.9	13.8	14.6	13.0	14.1	12.9	17.5	14.4
SW	1.1	9.9	13.3	3.4	.2	.0		28.2	13.6	32.7	26.1	28.2	26.4	23.6	26.4	31.3	29.4
W	.8	6.0	4.7	1.1	.1	.0		12.7	11.7	11.8	15.0	13.9	14.4	14.1	11.8	12.2	8.4
NW	.9	3.3	2.6	.5	.1	.0		7.3	10.9	6.4	10.3	8.6	10.1	8.2	7.9	3.3	6.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0	2.1	2.8	4.3	1.4	2.6	1.7	2.3	1.7
TOT OBS	281	1074	964	243	29	1	2592		11.8	518	219	280	221	549	236	345	231
TOT PCT	10.8	41.4	37.2	9.4	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	2.4	3.7	1.5	.4	.1		8.1	11.7	7.0	8.6	9.2	7.5
NE	3.0	5.7	2.4	.7	.1		11.9	12.6	11.0	11.0	12.4	13.4
E	3.3	4.0	1.4	.1	.0		8.8	10.0	8.8	7.1	9.5	9.4
SE	2.1	3.3	.6	.1	.0		6.2	9.6	6.0	5.6	6.9	5.8
S	3.8	6.8	3.4	.3	.0		14.4	11.9	13.9	13.9	13.8	16.2
SW	5.0	13.7	8.5	.9	.0		28.2	13.6	30.8	27.4	24.5	30.6
W	3.4	6.3	2.6	.5	.0		12.7	11.7	12.7	14.1	13.4	10.7
NW	2.2	3.8	1.1	.2	.0		7.3	10.9	7.5	9.2	8.1	4.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.0	2.3	3.0	2.3	2.1
TOT OBS	719	1228	556	85	4	2592		11.8	730	501	785	576
TOT PCT	27.7	47.4	21.5	3.3	.2		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1897-1970
(OVER-ALL) 1869-1970

AREA 0001 BELLE ISLE STRAIT
50.8N 57.0W

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	2.3	8.8	41.9	38.5	8.1	.4	.0	11.3	100.0	730
06&09	3.0	7.8	39.3	39.3	9.0	1.6	.0	11.8	100.0	501
12&15	2.3	10.1	43.6	33.9	8.8	1.4	.0	11.4	100.0	785
18&21	2.1	6.4	34.8	38.2	12.2	1.2	.2	12.6	100.0	576
TOT	62	219	1074	964	243	29	1	11.8		2592
PCT	2.4	8.4	41.4	37.2	9.4	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 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.5	.6	2.5	3.2		5.8
NE	1.5	.9	3.8	6.5		6.4
E	.7	.3	.8	3.7		6.7
SE	.7	.1	.9	4.0		6.7
S	2.9	2.0	4.0	6.2		5.5
SW	8.8	4.9	8.1	8.3		4.7
W	3.9	2.6	3.7	2.7		4.4
NW	2.4	.8	1.8	1.9		4.7
VAR	.0	.0	.0	.0		.0
CALM	.9	.3	.8	1.3		5.2
TOT OBS	276	146	313	447	1182	5.3
TOT PCT	23.4	12.4	26.5	37.8	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	.1	.6	.7	1.8	.7	.3	.1	.0	.1	3.4	
NE	.4	*	.8	1.5	3.0	1.4	.9	.1	.1	.0	4.1	
E	.3	.1	.5	.8	1.4	.5	.4	.0	*	.0	1.6	
SE	.4	.1	.3	.7	1.4	.5	.4	.0	.1	.1	1.8	
S	1.3	.0	.1	1.5	2.2	1.4	.6	.1	.1	.5	7.3	
SW	1.4	.0	1.1	2.5	3.7	1.8	.8	.3	.4	.9	17.2	
W	.7	.0	.2	1.0	1.8	.6	.2	.0	.3	.1	5.0	
NW	.3	*	.3	.3	1.4	.5	.1	.0	.0	.2	3.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.8	.0	.2	.2	.5	.2	.0	.0	.2	.0	1.4	
TOT OBS	68	4	46	102	203	90	45	7	15	21	575	1182
TOT PCT	5.8	.3	3.9	9.1	17.2	7.6	3.8	.6	1.3	1.8	48.6	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	2.3	2.8	2.9	2.9	2.9	3.0	3.0	3.0
* OR >5000	2.6	3.3	3.5	3.5	3.5	3.6	3.6	3.6
* OR >3500	5.3	6.9	7.3	7.3	7.3	7.4	7.4	7.4
* OR >2000	10.0	13.8	14.5	14.6	14.8	14.9	14.9	14.9
* OR >1000	19.4	29.1	30.9	31.4	31.8	32.1	32.1	32.1
* OR >600	23.2	35.9	39.6	40.5	41.0	41.3	41.3	41.3
* OR >300	24.3	37.9	43.0	44.0	44.7	44.9	45.1	45.1
* OR >150	24.3	37.9	43.1	44.3	44.9	45.2	45.4	45.4
* OR > 0	24.4	38.5	44.4	45.9	47.3	48.6	50.7	51.3
TOTAL	293	462	533	551	568	583	608	615

TOTAL NUMBER OF OBS: 1200 PCT FREQ NH <5/8: 48.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
11.2	13.5	10.2	7.0	6.1	4.9	7.5	8.4	26.5	5.0	1277

AUGUST

PERIOD: (PRIMARY) 1897-1970
(OVER-ALL) 1869-1970

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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
	PCP	.1	.1	.4	.3	.2	.3	.2	.1	.0	.0	1.7	
<1/2	NO PCP	.5	.5	1.0	.5	1.1	1.8	.7	.2	.0	.4	6.7	
	TOT %	.6	.7	1.4	.8	1.3	2.1	.9	.3	.0	.4	8.4	
	PCP	.3	.3	.7	.1	.3	.2	.1	.3	.0	.0	2.4	
1/2<1	NO PCP	.3	.3	.7	.3	.6	1.3	.5	.5	.0	.1	4.6	
	TOT %	.6	.6	1.4	.5	.9	1.5	.6	.8	.0	.1	6.9	
	PCP	.1	.1	*	.1	.1	.1	*	.0	.0	.0	.5	
1<2	NO PCP	*	.1	.2	.1	.2	.3	.1	.0	.0	*	.9	
	TOT %	.1	.3	.2	.1	.2	.3	.1	.0	.0	*	1.4	
	PCP	.1	.4	.3	.3	.6	.5	.1	.1	.0	*	2.4	
2<5	NO PCP	.2	.3	.3	.2	.4	1.0	.4	.1	.0	.2	2.9	
	TOT %	.3	.7	.5	.5	1.0	1.3	.5	.2	.0	.2	5.3	
	PCP	.6	1.2	1.0	.8	1.0	1.4	.3	.2	.0	.1	6.5	
5<10	NO PCP	2.3	4.2	2.7	1.6	4.3	9.8	3.9	2.4	.0	.5	31.6	
	TOT %	2.9	5.3	3.7	2.4	5.3	11.2	4.3	2.6	.0	.5	38.2	
	PCP	.2	.1	.3	.2	.3	.2	.1	.1	.0	.0	1.4	
10+	NO PCP	3.5	4.4	1.5	1.8	5.3	11.3	6.2	3.6	.0	.8	38.3	
	TOT %	3.7	4.5	1.8	2.0	5.5	11.5	6.2	3.6	.0	.8	39.7	
	TOT OBS												2433
	TOT PCT	8.1	12.1	9.0	6.3	14.3	28.2	12.6	7.4	.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
	0-3	.1	.1	.3	.3	.3	.1	.1	*	.0	.4	1.8	
<1/2	4-10	.2	.4	.9	.4	.4	1.0	.7	.2	.0		4.3	
	11-21	.2	.2	.1	.1	.5	.8	.1	*	.0		2.1	
	22+	.0	.0	.0	*	.1	.1	.0	.0	.0		.2	
	TOT %	.5	.7	1.3	.8	1.3	2.1	.9	.3	.0	.4	8.3	
	0-3	.1	*	.3	.1	.1	.1	*	.1	.0	.1	.9	
1/2<1	4-10	.2	.3	.7	.2	.2	.5	.3	.4	.0		2.9	
	11-21	.2	.1	.3	.2	.4	.8	.1	.2	.0		2.4	
	22+	*	.1	.1	*	.1	.1	*	.0	.0		.6	
	TOT %	.6	.6	1.4	.4	.9	1.5	.5	.7	.0	.1	6.7	
	0-3	*	*	.0	.0	*	.0	.0	.0	.0	*	.1	
1<2	4-10	.1	.1	.0	.1	.2	.1	*	.0	.0		.6	
	11-21	*	*	.1	.0	*	.1	.1	.0	.0		.4	
	22+	.0	*	.1	.1	.1	.1	.0	.0	.0		.4	
	TOT %	.1	.2	.2	.1	.3	.4	.1	.0	.0	*	1.6	
	0-3	.0	*	.0	*	.0	.0	*	.0	.0	.2	.3	
2<5	4-10	.2	.3	.2	.1	.3	.4	.3	.1	.0		2.0	
	11-21	.1	.2	.2	.3	.4	.9	.2	*	.0		2.3	
	22+	.1	.1	.1	.1	.2	.2	.1	*	.0		.9	
	TOT %	.3	.6	.5	.5	1.0	1.5	.6	.2	.0	.2	5.4	
	0-3	.5	.4	.6	.4	.4	.6	.4	.5	.0	.5	4.3	
5<10	4-10	1.2	2.1	1.8	1.0	2.3	3.1	1.6	1.0	.0		14.1	
	11-21	.9	2.0	1.0	.9	2.1	5.8	1.8	.7	.0		15.1	
	22+	.2	.7	.2	.1	.5	1.5	.4	.3	.0		4.0	
	TOT %	2.9	5.2	3.6	2.4	5.3	11.0	4.2	2.5	.0	.5	37.6	
	0-3	.4	.3	.1	.2	.5	.2	.2	.3	.0	.8	3.1	
10+	4-10	1.4	2.2	1.1	1.3	2.5	4.7	3.1	1.6	.0		18.0	
	11-21	1.4	1.6	.6	.5	2.0	5.1	2.6	1.5	.0		15.3	
	22+	.4	.6	.1	*	.5	1.5	.5	.3	.0		4.0	
	TOT %	3.7	4.7	1.9	2.0	5.5	11.6	6.4	3.7	.0	.8	40.3	
	TOT OBS												2504
	TOT PCT	8.1	12.1	9.0	6.2	14.2	28.0	12.9	7.4	.0	2.1	100.0	

AUGUST

PERIOD: (PRIMARY) 1897-1970
(OVER-ALL) 1869-1970

AREA 0001 BELLE ISLE STRAIT
50.8N 57.0W

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	.0	2.3	9.0	16.3	9.6	4.3	1.0	2.3	1.7	52.5	47.5	301
06&09	6.9	.8	4.5	6.5	19.0	6.9	2.0	.4	1.2	1.2	49.4	50.6	247
12&15	7.2	.3	3.7	9.2	17.5	6.3	4.3	.3	.9	1.4	51.1	48.9	348
18&21	3.3	.3	4.8	10.4	14.6	6.8	3.9	.6	.6	2.4	47.6	52.4	336
TOT	71	4	47	110	206	91	46	7	15	21	618	614	1232
PCT	5.8	.3	3.8	8.9	16.7	7.4	3.7	.6	1.2	1.7	50.2	49.8	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	10.0	7.7	.9	4.6	44.5	32.3	780
06&09	8.6	6.0	1.9	4.3	35.0	44.2	514
12&15	11.3	7.8	1.1	5.9	37.6	36.3	812
18&21	8.3	5.9	2.5	5.2	32.6	45.4	592
TOT	263	189	41	137	1025	1043	2698
PCT	9.7	7.0	1.5	5.1	38.0	38.7	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	6.1	9.9	22.9	32.4	44.7	293
06&09	7.0	13.6	23.1	27.7	49.2	242
12&15	7.1	12.1	26.0	28.7	45.3	338
18&21	3.4	9.8	23.2	27.5	49.2	327
TOT	70	135	287	349	564	1200
PCT	5.8	11.3	23.9	29.1	47.0	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	.1	.2	.3	.1	.0	.0	9	.6
65/69	.0	.0	.1	.2	.3	1.2	1.5	1.0	61	4.3
60/64	.0	.1	.0	.2	.9	3.7	7.4	5.8	259	18.2
55/59	.0	.0	.0	.4	1.5	6.2	15.1	13.5	523	36.7
50/54	.0	.0	.1	.1	.9	3.8	10.6	11.9	389	27.3
45/49	.0	.0	.0	.0	.4	1.0	2.9	6.7	156	10.9
40/44	.0	.0	.0	.0	.0	.0	.3	1.8	29	2.0
TOTAL	0	1	3	16	60	227	540	579	1426	100.0
PCT	.0	.1	.2	1.1	4.2	15.9	37.9	40.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.1	.3	.2	.1	.0	.0
	.0	.6	.0	.2	.8	1.7	.6	.2	.0	.2
	.9	1.1	.5	.8	2.3	8.2	2.3	.7	.0	.4
	2.0	3.7	2.3	2.1	6.2	12.4	4.9	2.2	.0	.8
	2.7	3.8	1.9	2.2	3.9	5.6	3.6	2.7	.0	.9
	1.7	2.7	.8	.9	1.0	1.4	.9	1.0	.0	.5
	.6	.3	.2	.1	.1	.1	.3	.2	.0	.0
	7.9	12.1	5.7	6.4	15.5	29.6	12.3	7.1	.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	71	67	63	55	46	43	40	54.7	804
06&09	70	64	62	54	45	42	39	53.8	532
12&15	73	68	64	55	47	43	40	55.0	834
18&21	74	71	66	57	47	44	42	56.8	598
TOT	74	68	64	55	46	43	39	55.1	2768

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	2.0	15.3	41.2	40.9	87	391
06&09	.0	1.0	2.7	8.4	32.9	55.0	90	298
12&15	.0	1.7	5.6	14.0	37.9	40.8	87	414
18&21	.0	2.2	6.3	24.9	37.2	29.5	84	366
TOT	0	20	62	234	552	601	87	1469

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PERIOD: (PRIMARY) 1897-1970
(OVER-ALL) 1869-1970

AREA 0001 BELLE ISLE STRAIT
50.0N 57.0W

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	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	1	*	.0
17/19	.0	.0	.0	.0	.1	.1	.1	.1	.1	*	11	.1	.3
14/16	.0	.0	.0	*	.3	.5	.5	.2	.2	.1	43	.3	1.5
11/13	.0	.0	*	.3	1.0	1.2	.5	.2	.1	*	81	1.0	2.4
9/10	.0	.0	.1	.7	1.0	1.2	.8	.5	.1	.0	105	1.0	3.4
7/8	.0	.0	.3	1.4	2.0	1.4	.9	.5	.1	.0	158	1.4	5.2
6	.0	*	.2	1.1	1.3	1.3	1.0	.2	.0	.0	122	.8	4.3
5	.0	*	.5	1.7	2.5	1.4	1.0	.4	*	.0	179	1.3	6.2
4	.0	.2	.8	1.5	2.1	2.7	1.2	.4	*	.0	212	1.4	7.5
3	.0	.3	.8	1.7	2.2	3.2	1.1	.3	.0	.0	231	1.8	7.8
2	.0	.3	1.3	3.4	2.1	3.3	.7	.1	*	.0	266	1.7	9.4
1	.0	.4	1.1	2.2	3.0	2.6	1.0	.2	.0	.0	253	1.6	8.9
0	*	.3	1.5	1.8	3.1	2.9	.5	.1	.0	.0	249	1.0	9.4
-1	.0	.4	.4	1.7	2.3	1.6	.4	*	.0	.0	162	.9	5.8
-2	*	.1	.3	.7	1.6	1.0	.3	.0	.0	.0	97	.4	3.6
-3	.0	.1	.3	1.3	1.0	.5	.2	.0	.0	.0	81	.2	3.2
-4	*	.0	.3	.8	1.0	.3	.0	.0	.0	.0	55	*	2.3
-5	.0	*	.1	.3	.6	.1	.0	.0	.0	.0	30	.2	1.1
-6	.0	.0	.1	.6	.2	.0	*	.0	.0	.0	22	.1	.8
-7/-8	.0	*	.1	.3	.3	.0	.0	.0	.0	.0	18	.1	.7
-9/-10	.0	.1	.2	.2	.1	.1	.0	.0	.0	.0	15	.0	.6
-11/-13	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
-14/-16	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	3		203		663		245		17			367	2027
		54		521		610		74		4	2394		
PCT	.1	2.3	8.5	21.8	27.7	25.5	10.2	3.1	.7	.2	100.0	15.3	84.7

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	.3	.6	.0	.0	.0	.0	.9
1-2	.0	.6	.2	.0	.0	.0	.8
3-4	.0	1.6	1.3	.2	.0	.0	3.1
5-6	.0	.0	1.6	.3	.2	.0	2.1
7	.0	.0	.2	.5	.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	.3	2.8	3.3	1.0	.2	.0	7.6

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	.0	2.5	1.5	.0	.0	.0	4.0
3-4	.0	.6	1.6	.2	.0	.0	2.4
5-6	.0	.3	1.5	.4	.0	.0	2.3
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.2	.2	.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	.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	.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	.0	5.2	4.9	.8	.5	.0	11.5

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	1.2	.4	.0	.0	.0	1.7
3-4	.0	.4	1.5	.4	.0	.0	2.3
5-6	.0	.1	.2	.3	.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	.0	2.4	2.0	.7	.0	.0	5.2

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	1.0	.0	.0	.0	1.8
3-4	.2	1.3	.7	.1	.0	.0	2.2
5-6	.0	.4	.3	.2	.0	.0	.9
7	.0	.0	.3	.2	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2
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	2.9	2.3	.8	.0	.0	6.1

PERIOD: (OVER-ALL) 1963-1970

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TABLE 18 (CONT)

AREA 0001 BELLE ISLE STRAIT
50.8N 57.0W

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	.6	1.2	.0	.0	.0	.0	1.8
1-2	.0	3.8	1.5	.0	.0	.0	5.4
3-4	.0	1.6	2.6	.9	.0	.0	5.1
5-6	.0	.2	1.1	.5	.0	.0	1.7
7	.0	.0	.4	.3	.0	.0	.7
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	.6	6.8	5.7	2.1	.0	.0	15.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.9	.5	.0	.0	.0	3.8
1-2	*	4.3	1.5	.0	.0	.0	5.9
3-4	.0	2.3	6.9	.8	.0	.0	9.9
5-6	.0	.1	4.1	2.0	.2	.0	6.3
7	.0	.0	1.2	1.0	.2	.0	2.3
8-9	.0	.0	.2	.9	.0	.0	1.1
10-11	.0	.0	.0	.2	.3	.0	.6
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	.5	9.6	14.3	5.1	.7	.0	30.2

W

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	3.7	1.4	.0	.0	.0	5.4
3-4	.0	.8	1.9	.6	.0	.0	3.2
5-6	.0	.6	1.1	.3	.0	.0	1.9
7	.0	.0	.7	.1	.0	.0	.9
8-9	.0	.0	.2	.3	.0	.0	.5
10-11	.0	.0	.2	.1	.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	6.1	5.4	1.4	.0	.0	13.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	.4	.2	.0	.0	.0	.9	
1-2	.7	1.2	.9	.0	.0	.0	2.3	
3-4	.0	.5	1.8	.2	.0	.0	2.5	
5-6	.0	.0	.8	*	.3	.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	.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	.6	2.1	4.1	.4	.3	.0	7.5	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	6.3	8.8	.7	.0	.0	.0	15.9	
1-2	1.2	18.0	8.2	.0	.0	.0	27.4	
3-4	.2	8.8	17.9	3.2	.0	.0	30.1	
5-6	.0	1.7	10.5	4.8	.7	.0	16.7	
7	.0	.0	3.3	2.0	.2	.0	5.5	
8-9	.0	.0	.5	1.8	.0	.0	2.3	
10-11	.0	.0	.2	.5	.3	.0	1.0	
12	.0	.0	.0	.5	.0	.0	.5	
13-16	.0	.0	.0	.2	.2	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
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	
								599
TOT PCT	7.7	37.4	41.2	12.0	1.7	.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	4.0	21.5	21.1	10.0	2.7	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	570	3
6-7	.0	2.1	7.0	5.8	3.7	1.7	1.3	.2	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	212	5
8-9	.0	.5	.5	1.2	1.3	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	6
10-11	.0	.2	.1	.6	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	6
12-13	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	6.6	1.8	1.5	1.1	.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	109	2
TOTAL	101	248	288	178	78	30	17	6	3	0	1	1	0	0	0	0	0	0	0	951	4
PCT	10.6	26.1	30.3	18.7	8.2	3.2	1.8	.6	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1898-1970
(OVER-ALL) 1860-1970

AREA 0001 BELLE ISLE STRAIT
50.8N 57.0W

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	7.4	.0	.0	.0	.4	19.2	1.7	.0	4.6	.0	.0	.0	.0	74.5
NE	12.8	6.5	8.0	.0	.0	.0	.2	25.3	.9	.0	7.9	.8	.0	.0	.0	65.1
E	12.7	4.0	3.4	.0	.0	.0	.4	20.0	3.6	.0	7.0	1.9	.0	.0	.0	67.5
SE	9.7	3.2	6.3	.0	.0	.0	.0	19.1	5.7	.0	15.8	.6	1.9	.0	.0	56.9
S	9.1	2.2	5.3	.0	.0	.0	.0	16.6	2.6	.6	10.4	1.2	.9	.0	.0	68.0
SW	4.5	1.4	3.5	.0	.0	.0	.3	9.7	.7	.3	12.2	.3	1.1	.0	.0	75.8
W	3.3	.9	1.5	.0	.0	.0	.0	5.3	.2	.8	7.2	.0	.8	.0	.0	85.9
NW	5.0	4.5	2.7	.0	.0	.0	.0	11.8	.8	.0	4.9	.4	.0	.0	.0	82.0
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	6.1	.0	.0	.0	.0	93.9
TOT PCT	6.5	2.9	4.3	.0	.0	.0	.2	13.4	1.4	.3	9.2	.5	.7	.0	.0	74.7
TOT OBS:	2446															

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	8.3	3.6	5.2	.0	.0	.0	.4	17.2	1.3	.0	10.6	.1	.6	.0	.0	70.2
06609	6.5	2.3	5.4	.0	.0	.0	.0	13.4	1.9	1.1	7.7	.4	.4	.0	.0	75.3
12615	5.5	2.9	3.9	.0	.1	.0	.0	12.2	.9	.1	10.4	.7	.5	.0	.0	75.4
18621	5.3	2.0	3.6	.0	.0	.0	.2	10.7	1.4	.0	10.0	.7	1.5	.0	.0	75.8
TOT PCT	6.4	2.8	4.4	.0	*	.0	.2	13.5	1.3	.3	9.8	.5	.7	.0	.0	74.0
TOT OBS:	2563															

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	3.0	4.0	1.4	.3	.0		9.2	14.4	8.2	9.5	10.9	10.2	10.3	7.3	10.1	6.0
NE	.4	3.6	4.2	1.4	.4	.0		10.0	14.1	9.4	9.5	9.0	8.6	12.3	12.6	8.0	9.6
E	.4	1.9	2.0	.7	*	.0		5.0	13.1	6.0	4.4	4.4	3.5	5.1	6.7	4.0	5.6
SE	.5	2.3	1.4	.5	.2	.0		4.8	12.0	5.6	4.4	3.9	5.4	4.2	3.8	5.6	5.8
S	.6	4.7	4.4	1.8	1.1	.0		12.6	15.1	11.4	10.9	14.4	13.6	12.8	11.9	12.6	14.0
SW	1.0	9.2	13.7	6.0	1.8	.2		31.8	16.2	36.7	29.3	29.1	26.3	26.4	29.7	37.0	39.2
W	.9	5.3	6.8	2.0	.3	.0		15.3	13.8	13.6	17.8	15.7	17.3	15.6	19.1	13.4	12.7
NW	.5	3.6	4.1	1.3	.2	.0		9.7	13.7	7.9	13.8	10.3	13.8	12.0	8.0	6.5	5.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0	1.2	.5	2.2	1.3	1.3	.9	2.7	1.3
TOT OBS	162	872	1057	393	110	4	2598		14.5	497	216	312	223	328	224	364	234
TOT PCT	6.2	33.6	40.7	15.1	4.2	.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	1.8	4.0	2.6	.8	.0		9.2	14.4	8.6	10.6	9.4	8.5
NE	2.0	4.4	2.8	.7	*		10.0	14.1	9.4	8.8	12.4	8.7
E	1.2	2.3	1.1	.4	.0		5.0	13.1	5.5	4.0	5.6	4.6
SE	1.6	2.2	.7	.2	.1		4.8	12.0	5.3	4.5	4.1	5.6
S	2.3	5.8	2.9	1.5	.2		12.6	15.1	11.2	14.1	12.5	13.2
SW	4.2	13.9	9.6	3.8	.3		31.8	16.2	36.4	27.9	27.4	37.9
W	3.0	7.3	4.0	1.0	.1		15.3	13.8	14.9	16.4	16.7	13.1
NW	1.9	4.3	2.8	.5	*		9.7	13.7	9.7	11.8	10.8	6.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	1.0	1.9	1.2	2.2
TOT OBS	509	1152	688	229	20	2598		14.5	713	535	752	598
TOT PCT	19.6	44.3	26.5	8.8	.8		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1898-1970
(OVER-ALL) 1860-1970

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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	1.0	5.8	34.5	40.0	14.9	3.8	.1	14.2	100.0	713
06&09	1.9	4.3	32.7	43.4	13.6	4.1	.0	14.4	100.0	535
12&15	1.2	5.2	35.2	40.3	14.9	3.1	.1	13.8	100.0	752
18&21	2.2	3.3	31.1	39.6	17.1	6.4	.3	15.7	100.0	598
TOT	39	123	872	1057	393	110	4	14.5		2598
PCT	1.5	4.7	33.6	40.7	15.1	4.2	.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	2.5	.9	2.1	4.7		5.5
NE	1.0	.7	2.2	5.4		6.5
E	.5	.5	1.2	3.0		6.4
SE	.2	.4	.8	3.2		6.9
S	2.6	1.1	2.0	5.5		5.6
SW	10.6	4.0	8.1	11.0		4.7
W	7.4	2.2	2.5	2.8		3.5
NW	2.9	1.6	1.9	1.8		4.2
VAR	.0	.0	.0	.0		.0
CALM	1.1	.3	.7	.3		4.0
TOT OBS	356	146	268	468	1238	5.0
TOT PCT	28.8	11.8	21.6	37.8	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	.1	.3	1.5	1.8	1.9	.5	.0	.0	.2	4.3	
NE	.1	.2	.0	2.5	2.1	1.1	.2	.0	.0	.2	3.0	
E	.4	.1	*	1.2	.7	.5	.0	.0	.2	.1	2.0	
SE	.4	.0	.2	1.0	.6	.8	.2	.0	.2	.1	1.1	
S	1.0	.1	.4	1.3	1.4	.8	.8	*	.2	.3	4.9	
SW	1.7	.2	.1	2.6	4.0	3.3	1.3	.2	.6	1.3	10.6	
W	.3	.0	.2	.5	1.1	1.1	.3	.2	.0	.1	11.0	
NW	.2	.0	.2	.5	1.0	.8	.2	.0	.1	.1	5.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.2	.2	.2	.0	.0	.0	.1	1.7	
TOT OBS	56	7	18	139	159	124	45	5	19	31	639	1238
TOT PCT	4.5	.6	1.5	11.2	12.8	10.0	3.6	.4	1.2	2.5	51.6	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	2.3	3.3	3.5	3.5	3.5	3.6	3.7	3.7
* OR >5000	2.7	3.7	3.9	3.9	3.9	4.0	4.1	4.1
* OR >3500	5.0	6.8	7.3	7.4	7.6	7.7	7.8	7.8
* OR >2000	11.9	16.4	17.2	17.4	17.6	17.7	17.8	17.8
* OR >1000	20.0	27.9	29.8	30.1	30.4	30.6	30.7	30.7
* OR >600	24.8	36.7	40.4	41.2	41.7	41.8	41.9	41.9
* OR >300	25.4	38.0	41.7	42.5	43.0	43.3	43.4	43.4
* OR >150	25.5	38.1	41.9	43.0	43.6	43.8	44.0	44.0
* OR > 0	25.6	38.8	43.2	44.5	45.4	46.4	48.2	48.6
TOTAL	320	484	539	555	566	579	601	606

TOTAL NUMBER OF OBS: 1248 PCT FREQ NH <5/8: 51.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
18.9	11.4	10.6	6.7	4.3	5.9	6.2	6.4	25.8	3.8	1380

SEPTEMBER

PERIOD: (PRIMARY) 1898-1970
(OVER-ALL) 1860-1970

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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
	PCP	.2	.3	.0	.1	.3	.3	.1	*	.0	.0	1.2	
<1/2	NO PCP	.2	.4	.1	.3	.8	2.1	.3	.3	.0	*	4.5	
	TOT %	.3	.7	.1	.4	1.1	2.3	.4	.3	.0	*	5.7	
	PCP	.2	.3	.2	.1	.4	.1	.1	.1	.0	.0	1.6	
1/2<1	NO PCP	.1	.2	.2	.3	.4	1.6	.6	.2	.0	.0	3.5	
	TOT %	.3	.6	.4	.4	.7	1.7	.7	.3	.0	.0	5.1	
	PCP	.1	.1	*	.2	.1	.1	.0	.0	.0	.0	.7	
1<2	NO PCP	*	.1	*	.1	.1	.2	.1	*	.0	.0	.7	
	TOT %	.1	.2	.1	.3	.2	.3	.1	*	.0	.0	1.4	
	PCP	.2	.4	.1	.1	.3	.4	.1	.1	.0	.0	1.6	
2<5	NO PCP	.1	.1	.1	.1	.4	.8	.1	.1	.0	.1	1.8	
	TOT %	.3	.4	.2	.1	.7	1.2	.2	.1	.0	.1	3.4	
	PCP	.9	1.3	.5	.3	.9	1.7	.4	.9	.0	.0	6.9	
5<10	NO PCP	2.6	2.7	1.1	1.4	4.1	10.2	5.1	3.4	.0	.2	30.9	
	TOT %	3.5	4.0	1.7	1.7	5.0	12.0	5.5	4.3	.0	.2	37.8	
	PCP	.2	.1	.1	.2	.2	.9	.1	.1	.0	.0	1.4	
10+	NO PCP	4.5	3.8	2.3	1.8	5.0	14.2	7.9	4.7	.0	1.0	45.2	
	TOT %	4.8	3.9	2.4	1.9	5.1	14.7	8.0	4.7	.0	1.0	46.6	
	TOT OBS												2443
	TOT PCT	9.4	9.8	4.9	4.9	12.8	32.1	15.0	9.8	.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
	0-3	.1	.1	*	.2	.1	.2	*	.1	.0	*	1.0	
<1/2	4-10	.1	.2	*	.2	.4	.8	.1	.1	.0		2.0	
	11-21	.1	.2	.0	*	.4	1.0	.2	*	.0		2.0	
	22+	.0	.2	.0	.0	.1	.3	*	.0	.0		.6	
	TOT %	.3	.7	.1	.4	1.0	2.3	.4	.3	.0	*	5.6	
	0-3	.0	.0	.0	.1	.1	.1	*	.0	.0	.0	.3	
1/2<1	4-10	.2	.3	.2	.3	.3	.6	.4	.2	.0		2.4	
	11-21	.1	.2	.2	*	.2	.7	.2	.1	.0		1.6	
	22+	*	.1	.1	.0	.2	.2	*	.1	.0		.6	
	TOT %	.3	.5	.4	.4	.7	1.6	.7	.3	.0	.0	5.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.1	.1	.0	.1	*	.1	*	*	.0		.4	
	11-21	*	.1	*	.2	.1	.2	*	.0	.0		.6	
	22+	*	*	*	.1	.1	*	*	.0	.0		.3	
	TOT %	.2	.2	.1	.3	.2	.3	.1	*	.0	.0	1.4	
	0-3	.0	.0	*	.0	*	.0	.0	.0	.0	.1	.2	
2<5	4-10	.0	.1	*	*	.2	.2	.2	.1	.0		.8	
	11-21	.1	.2	.1	*	.3	.6	*	*	.0		1.5	
	22+	.1	.2	*	*	.1	.4	.1	.1	.0		1.1	
	TOT %	.3	.5	.2	.1	.7	1.2	.3	.2	.0	.1	3.5	
	0-3	.2	.1	.1	.2	.3	.6	.4	.1	.0	.2	2.1	
5<10	4-10	.9	1.1	.4	.7	1.6	3.0	1.7	1.4	.0		10.8	
	11-21	1.6	1.9	.9	.4	2.0	4.9	2.6	1.8	.0		16.1	
	22+	.8	.9	.3	.4	1.0	3.3	.8	.8	.0		8.1	
	TOT %	3.5	3.9	1.6	1.7	4.9	11.8	5.4	4.2	.0	.2	37.1	
	0-3	.2	.1	.2	.1	.1	*	.3	.2	.0	1.2	2.4	
10+	4-10	1.6	1.9	1.1	.9	2.0	4.4	2.7	1.7	.0		16.4	
	11-21	2.1	1.6	.9	.7	1.5	6.5	3.8	2.3	.0		19.4	
	22+	.7	.5	.4	.2	1.5	3.8	1.5	.6	.0		9.2	
	TOT %	4.7	4.1	2.6	1.9	5.1	14.8	8.2	4.8	.0	1.2	47.4	
	TOT OBS												2504
	TOT PCT	9.2	10.0	5.0	4.8	12.6	32.0	15.1	9.8	.0	1.5	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1898-1970
(OVER-ALL) 1860-1970

TABLE 10

AREA 0001 BELLE ISLE STRAIT
50.8N 57.0W

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	.3	1.0	8.6	12.5	8.9	2.6	.0	1.0	1.3	41.6	58.4	303
06&09	4.6	.3	1.0	12.4	12.4	9.8	2.0	.3	.7	2.6	46.1	53.9	306
12&15	3.5	.9	1.5	11.8	10.3	9.7	5.0	.3	1.5	1.8	46.2	53.8	340
18&21	4.0	.5	2.1	9.6	13.3	9.8	4.0	.8	1.3	3.7	49.2	50.8	376
TOT	57	7	19	140	161	127	46	5	15	32	609	716	1325
PCT	4.3	.5	1.4	10.6	12.2	9.6	3.5	.4	1.1	2.4	46.0	54.0	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	7.0	7.0	1.0	2.9	41.0	41.0	712
06&09	5.2	3.9	1.1	3.5	31.3	55.1	543
12&15	6.7	5.9	1.0	3.4	40.7	42.4	765
18&21	5.6	4.3	2.7	4.0	33.7	49.7	602
TOT	163	142	37	90	976	1214	2622
PCT	6.2	5.4	1.4	3.4	37.2	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	6.5	9.7	21.3	25.6	53.1	277
06&09	5.3	7.4	23.4	27.7	48.9	282
12&15	3.7	6.8	21.1	27.2	51.7	323
18&21	4.1	8.2	20.8	30.3	48.9	366
TOT	60	100	269	348	631	1248
PCT	4.8	8.0	21.6	27.9	50.6	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
70/74	.0	.0	.1	.1	.0	.0	.0	.0	2	.2
65/69	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
60/64	.0	.0	.2	.1	.1	.5	1.6	.4	43	2.9
55/59	.0	.0	.0	.2	1.2	4.0	8.3	6.7	300	20.4
50/54	.0	.0	.1	.5	3.0	5.8	12.8	11.9	502	34.1
45/49	.0	.0	.1	.6	2.0	7.2	9.8	9.6	430	29.2
40/44	.0	.0	.1	.3	.8	2.6	2.9	5.0	172	11.7
35/39	.0	.0	.0	.0	.1	.3	.5	.6	22	1.5
TOTAL	0	0	7	26	105	302	530	502	1472	100.0
PCT	.0	.0	.5	1.8	7.1	20.5	36.0	34.1		

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	.1	.0	.0	.1
.0	.0	.0	.0	.0	*	*	.0	.0	.0
.2	.2	.1	.2	.7	1.3	.3	.0	.0	.1
1.2	.9	1.1	1.5	5.0	8.0	1.7	.6	.0	.5
1.8	3.0	1.4	1.8	4.8	14.4	3.9	2.4	.0	.6
3.2	2.8	2.0	1.3	2.6	7.8	4.9	3.8	.0	.9
2.6	1.7	1.2	.7	.6	1.5	2.4	1.0	.0	.0
.6	.2	.1	*	.1	.2	.1	.4	.0	.0
9.5	8.8	5.8	5.4	13.7	33.2	13.3	8.2	.0	2.1

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	63	59	58	50	41	38	34	50.0	740
06&09	64	60	57	49	39	35	35	48.7	553
12&15	67	63	58	50	41	38	35	50.1	788
18&21	72	63	60	52	43	41	39	51.9	609
TOT	72	62	58	50	41	37	34	50.2	2690

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	5.2	17.9	37.2	38.0	86	368
06&09	.0	.0	4.4	18.0	37.8	39.8	87	344
12&15	.0	1.7	9.1	19.3	38.0	31.9	84	405
18&21	.0	5.5	9.1	26.3	31.0	28.1	81	384
TOT	0	34	106	307	540	514	84	1501

SEPTEMBER

PERIOD: (PRIMARY) 1898-1970
(OVER-ALL) 1860-1970

AREA 0001 BELLE ISLE STRAIT
50.8N 57.0W

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	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.*	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	.1	.1	*	.0	5	.0	.2
14/16	.0	.0	.0	.0	.1	.1	.2	.0	.0	.0	8	.0	.3
11/13	.0	.0	.0	.1	.3	.7	1.0	.2	*	.0	55	.2	2.2
9/10	.0	.0	*	.3	.7	1.0	.8	.1	.0	*	69	.7	2.4
7/8	.0	.0	.0	.4	1.7	1.9	.7	.2	*	.0	115	.8	4.2
6	.0	.0	.2	.6	1.5	1.1	.7	.1	.0	.0	97	.6	3.6
5	.0	.0	.2	1.1	1.8	1.5	.6	.3	*	.0	127	.5	5.1
4	*	.1	.4	1.9	2.1	1.6	.9	*	.0	.0	160	1.4	5.6
3	.0	.1	.8	1.7	2.6	2.2	1.1	.2	.0	.0	200	1.0	7.7
2	.0	.2	1.2	2.3	2.5	2.2	1.7	*	.0	.0	232	1.2	9.0
1	.0	.3	1.3	2.0	3.5	3.2	.7	*	.0	.0	247	.9	9.9
0	*	.2	1.3	2.1	2.8	2.7	.8	.0	.0	.0	225	.9	9.0
-1	.1	.3	.8	2.1	2.1	2.1	.3	.0	.0	.0	179	.8	7.0
-2	.0	.3	1.2	1.4	2.1	.8	.3	.0	.0	.0	143	.4	5.9
-3	.1	.3	.6	1.8	1.3	.7	.1	.0	.0	.0	111	.2	4.6
-4	.0	.4	.7	1.4	1.0	.7	*	.0	.0	.0	96	.3	3.9
-5	.1	.3	.4	.9	.8	.1	.0	.0	.0	.0	59	.2	2.4
-6	*	.2	.5	.9	.6	.2	.0	.0	.0	.0	55	.0	2.4
-7/-8	*	.1	.7	1.2	.4	.1	*	.0	.0	.0	59	*	2.5
-9/-10	*	.2	.5	.5	.1	.0	.0	.0	.0	.0	32	.0	1.4
-11/-13	*	*	.3	.1	.0	.0	.0	.0	.0	.0	10	*	.4
-14/-16	.0	.0	.0	*	*	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	13	68	251	527	635	526	231	30	4	2	2287	230	2057
PCT	.6	3.0	11.0	23.0	27.8	23.0	10.1	1.3	.2	*	100.0	10.1	89.9

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	.4	.7	.0	.0	.0	.0	1.1
1-2	.1	1.6	1.3	.0	.0	.0	3.1
3-4	.0	.6	2.7	.3	.0	.0	3.6
5-6	.0	.0	1.0	.4	.0	.0	1.3
7	.0	.0	.6	.2	.3	.0	1.1
8-9	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.2	.0	.2	.0	.4
12	.0	.0	.1	.2	.0	.0	.3
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	.5	2.9	5.9	1.5	.7	.0	11.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.4	.0	.0	.0	1.3
1-2	.2	1.6	.3	.0	.0	.0	2.2
3-4	.0	1.1	1.3	.2	.0	.0	2.6
5-6	.0	.0	1.5	.5	.0	.0	2.0
7	.0	.0	.4	.2	*	.0	.7
8-9	.0	.0	.2	.2	.2	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.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	3.6	4.2	1.3	.2	.0	9.5

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	.6	.4	.0	.0	.0	1.0
3-4	.0	.0	.2	.0	.0	.0	.2
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.2	.0	.0	.0	.2
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	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	1.1	.2	.2	.0	2.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.2	.0	.0	.0	.4
1-2	.0	.5	.2	.0	.0	.0	.7
3-4	.0	.2	.4	.4	.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	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.2	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	.9	.4	.2	.0	2.3

PERIOD: (OVER-ALL) 1963-1970

SEPTEMBER

TABLE 18 (CONT)

AREA 0001 BELLE ISLE STRAIT
50.0N 57.0W

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	.6	.5	.0	.0	.0	1.1	.4	1.8	.7	.0	.0	.0	2.9
1-2	.3	2.6	1.1	.0	.0	.0	4.0	.2	5.4	3.1	.0	.0	.0	8.8
3-4	.0	.5	2.4	.4	.0	.0	3.2	.0	2.9	5.3	1.6	.0	.0	9.7
5-6	.0	.1	1.3	.3	.0	.0	1.8	.0	.3	5.0	2.2	1.1	.0	8.6
7	.0	.0	.1	.7	.0	.0	.8	.0	.0	2.2	1.9	.2	.0	4.3
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.2	.7	.4	.0	1.2
10-11	.0	.0	.0	.0	.1	.0	.1	.0	.0	.2	.4	.4	.0	.9
12	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.5	.5	.0	1.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	.6
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	3.8	5.4	1.7	.4	.0	11.8	.6	10.5	16.6	7.4	2.7	.2	38.0

	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	1.3	.0	.0	.0	.0	1.3	.2	.2	.2	.0	.0	.0	.6	
1-2	.2	1.4	.4	.0	.0	.0	2.0	.2	1.5	.5	.0	.0	.0	2.2	
3-4	.0	2.2	2.2	.6	.0	.0	4.9	.0	.4	1.9	.2	.0	.0	2.6	
5-6	.0	.4	1.4	.5	.0	.0	2.6	.0	.0	1.3	.0	.0	.0	1.3	
7	.0	.0	.2	.7	.0	.0	.9	.0	.0	.4	1.3	.0	.0	1.6	
8-9	.0	.0	.0	.6	.4	.0	.9	.0	.0	.0	*	.0	.0	*	
10-11	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.1	.0	.1	.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	.2	5.3	4.3	2.4	.8	.0	13.0	.4	2.2	4.3	1.5	.2	.0	8.6	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	3.6	6.6	2.0	.0	.0	.0	12.1	
1-2	2.0	15.1	7.3	.0	.0	.0	24.3	
3-4	.0	7.8	16.2	3.6	.0	.0	27.5	
5-6	.0	.9	11.9	3.9	1.1	.0	17.8	
7	.0	.0	4.1	4.8	.5	.0	9.4	
8-9	.0	.0	.4	2.5	1.1	.0	3.9	
10-11	.0	.0	.4	.4	.9	.0	1.6	
12	.0	.0	.2	.9	1.2	.0	2.3	
13-16	.0	.0	.0	.7	.5	.2	.9	
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	5.5	30.4	42.3	14.2	5.5	.2	100.0	563

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	3.7	14.0	18.6	9.8	3.7	1.1	.2	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	511	3
6-7	.1	.8	5.8	5.8	4.7	1.9	1.1	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	208	4
8-9	.2	.6	1.0	1.9	3.2	.9	.5	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	89	6
10-11	.0	.0	.1	.4	.5	.4	.1	.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	9
12-13	.0	.0	.2	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	11
>13	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	3	15
INDET	8.4	1.9	2.6	.8	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	144	1
TOTAL	122	171	279	184	123	46	19	16	20	1	2	0	0	0	0	0	0	0	0	983	4
PCT	12.4	17.4	28.4	18.7	12.5	4.7	1.9	1.6	2.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1869-1970

AREA 0001 BELLE ISLE STRAIT
50.8N 57.1W

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	.7	2.0	.4	4.3	.0	.0	12.8	1.1	.0	5.1	.4	.0	.0		80.6
NE	18.3	2.1	7.4	.0	4.7	.0	.6	33.1	1.4	.3	6.7	1.1	.0	.0		57.8
E	19.7	3.9	6.0	.0	1.7	.0	.9	31.3	2.6	.4	14.8	.0	.0	.0		51.4
SE	20.1	1.8	7.8	.0	.8	.0	1.6	32.2	3.5	.0	11.3	.0	.8	.8		51.4
S	14.7	1.5	3.3	.0	.7	.0	.5	20.8	2.8	.5	14.1	.5	2.8	.0		58.5
SW	6.1	2.9	2.8	.0	.5	.0	.2	12.2	1.8	.0	8.4	.2	1.1	.2		76.0
W	.6	.6	.9	.0	.4	.0	.0	2.3	.4	.0	2.5	.3	.4	.0		94.2
NW	2.1	2.1	.9	.0	3.2	.0	.0	8.2	1.7	.0	2.1	.0	.0	.0		88.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	4.3	.0	.0	.0	.0	.0	4.3	.0	.0	17.4	.0	.0	.0		78.3
TOT PCT	8.0	1.9	3.0	*	1.7	.0	.3	14.7	1.6	.1	7.1	.3	.7	.1		75.5
TOT OBS:	2066															

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	9.5	2.0	1.9	.0	1.0	.0	.2	14.4	1.4	.3	6.6	.2	.2	.2		76.9
06&09	9.3	1.5	2.9	.0	2.4	.0	.5	15.9	1.2	.0	6.4	.5	.0	.0		76.0
12&15	7.3	1.4	3.0	.0	2.4	.0	.5	14.2	2.1	.2	8.2	.0	.9	.0		74.4
18&21	6.5	2.6	3.9	.2	1.4	.0	.0	14.6	1.8	.0	6.5	.6	1.4	.2		74.8
TOT PCT	8.1	1.9	2.9	*	1.8	.0	.3	14.7	1.6	.1	7.0	.3	.7	.1		75.5
TOT OBS:	2122															

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	3.3	4.8	2.1	.4	.0		11.0	15.6	11.4	9.4	12.6	12.3	12.1	8.6	10.4	8.3
NE	.2	2.7	3.7	1.7	.3	.0		8.7	15.6	8.7	9.1	6.5	8.3	8.9	6.6	10.9	9.5
E	.2	2.4	2.0	.9	.1	.0		5.6	13.5	6.3	7.3	4.4	5.2	5.6	5.8	4.7	6.5
SE	.1	1.9	2.2	1.2	.4	.1		5.9	17.0	4.7	7.9	6.0	6.7	5.3	7.2	5.6	7.1
S	.3	2.3	3.2	2.0	.4	.0		10.2	16.2	10.3	10.8	13.1	7.1	9.6	11.6	8.8	10.4
SW	.6	5.4	11.8	5.0	1.2	*		24.1	16.8	26.3	23.7	20.2	21.1	19.6	25.3	28.5	30.7
W	.5	5.4	9.1	3.3	.7	.1		19.2	16.0	18.7	16.6	18.2	21.3	21.6	20.2	18.3	16.4
NW	.2	4.0	6.2	2.7	.8	.1		14.0	16.6	13.0	14.0	17.3	18.0	16.1	13.1	10.6	9.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0	.7	1.1	1.8	.0	1.2	1.7	2.3	1.2
TOT OBS	86	616	1011	425	98	8	2244		15.9	453	178	275	154	494	181	341	168
TOT PCT	3.8	27.5	45.1	18.9	4.4	.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	1.4	4.9	3.7	.8	.2		11.0	15.6	10.8	12.5	11.1	9.7
NE	.9	4.3	2.5	.9	*		8.7	15.6	8.8	7.1	8.3	10.4
E	1.2	2.7	1.2	.5	.0		5.6	13.5	6.6	4.7	5.6	5.3
SE	.7	2.6	1.6	.8	.2		5.9	17.0	5.6	6.2	5.8	6.1
S	.9	4.8	3.6	.9	*		10.2	16.2	10.4	11.0	10.1	9.3
SW	2.2	10.6	8.6	2.4	.2		24.1	16.8	25.6	20.5	21.1	29.2
W	1.9	9.1	6.1	1.6	.3		19.2	16.0	18.1	19.3	21.2	17.6
NW	1.7	6.4	4.1	1.5	.3		14.8	16.6	13.3	17.5	15.3	10.3
VAR	.0	.0	.0	.0	.0		.8	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	.8	1.2	1.3	2.6
TOT OBS	273	1022	707	213	29	2244		15.9	631	429	675	509
TOT PCT	12.2	45.5	31.5	9.5	1.3		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1869-1970

TABLE 4

AREA 0001 BELLE ISLE STRAIT
50.8N 57.1W

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	2.7	29.8	41.2	20.4	4.6	.5	16.0	100.0	631
06&09	1.2	2.8	31.2	41.5	19.6	3.3	.5	15.5	100.0	429
12&15	1.3	2.2	25.2	50.5	16.1	4.6	.0	15.7	100.0	675
18&21	2.0	2.6	24.4	45.6	20.2	4.7	.6	16.5	100.0	509
TOT	29	57	616	1011	425	98	8	15.9		2244
PCT	1.3	2.5	27.5	45.1	18.9	4.4	.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	2.3	1.4	3.2	4.5		5.5
NE	1.0	.6	2.1	4.9		6.4
E	.4	.5	.9	2.3		6.4
SE	.8	.2	.7	3.9		6.7
S	1.6	.7	2.1	6.1		6.2
SW	6.0	3.3	6.6	10.0		5.3
W	7.3	2.3	5.6	4.0		4.2
NW	3.3	2.3	3.7	4.2		4.9
VAR	.0	.0	.0	.0		.0
CALM	.5	.3	.1	.5		4.4
TOT OBS	283	140	304	493	1220	5.4
TOT PCT	23.2	11.5	24.9	40.4	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	.2	.1	.4	1.4	1.8	1.9	.4	.1	.0	.1	4.9	
NE	.3	.1	.6	.9	1.9	1.7	.1	.1	.0	.4	2.6	
E	.5	.0	.1	.6	.5	.4	.2	.0	.2	.1	1.5	
SE	.8	.2	.3	.9	.8	.5	.1	.0	.2	.1	1.8	
S	1.4	.1	.7	1.2	1.5	1.0	.4	.1	.3	.4	3.4	
SW	.9	.2	.3	2.3	4.8	3.3	.8	.5	.2	.6	12.1	
W	.1	.0	.1	1.0	2.0	2.0	.6	.3	.1	.3	12.8	
NW	.3	.0	.5	.8	1.8	1.5	.9	.2	.2	.2	7.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.1	.2	.0	.1	.0	.0	.0	1.0	
TOT OBS	56	8	36	111	185	149	44	14	15	25	577	1220
TOT PCT	4.6	.7	3.0	9.1	15.2	12.2	3.6	1.1	1.2	2.0	47.3	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	2.3	3.1	3.3	3.3	3.3	3.3	3.3	3.3
* OR >5000	3.2	4.2	4.5	4.5	4.5	4.5	4.5	4.5
* OR >3500	5.9	7.8	8.0	8.0	8.0	8.0	8.0	8.0
* OR >2000	13.7	19.3	20.1	20.2	20.2	20.2	20.2	20.2
* OR >1000	22.3	32.3	34.8	35.0	35.0	35.4	35.4	35.4
* OR >600	27.2	39.7	43.5	43.9	44.1	44.5	44.5	44.5
* OR >300	28.0	41.7	46.1	46.7	47.0	47.4	47.4	47.4
* OR >150	28.2	42.0	46.7	47.4	47.6	48.0	48.0	48.0
* OR > 0	28.3	42.7	48.0	49.2	49.5	50.3	51.9	52.4
TOTAL	348	525	590	605	609	619	638	645

TOTAL NUMBER OF OBS: 1230 PCT FREQ NH <5/8: 47.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
13.0	10.5	10.0	6.3	6.6	5.2	7.9	7.2	30.0	3.6	1356

OCTOBER

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1869-1970

AREA 0001 BELLE ISLE STRAIT
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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	.2	.2	.0	.1	.1	.2	.0	.2	.0	.0	1.0	
<1/2	NO PCP	.2	.1	.4	.3	.7	.9	.3	*	.0	.2	3.1	
	TOT %	.4	.3	.4	.4	.8	1.1	.3	.2	.0	.2	4.1	
	PCP	.1	.3	*	.0	.2	.2	*	.1	.0	.0	1.0	
1/2<1	NO PCP	.2	.3	.2	.3	.4	.5	.1	.2	.0	.0	2.1	
	TOT %	.3	.6	.3	.3	.6	.7	.1	.3	.0	.0	3.1	
	PCP	.1	*	.1	.1	*	.1	*	.1	.0	.0	.6	
1<2	NO PCP	.0	.1	.0	*	.2	.2	*	.0	.0	.0	.6	
	TOT %	.1	.1	.1	.2	.2	.3	.1	.1	.0	.0	1.2	
	PCP	.2	.6	.4	.4	.4	.6	*	.1	.0	.0	2.8	
2<5	NO PCP	.2	.3	.4	.1	.4	.7	.4	.3	.0	*	2.7	
	TOT %	.4	.9	.8	.5	.8	1.2	.4	.4	.0	*	5.5	
	PCP	.6	1.7	1.1	1.2	1.0	1.6	.4	.5	.0	.0	8.0	
5<10	NO PCP	3.8	1.9	1.3	1.7	2.5	6.6	5.0	4.1	.0	.0	26.9	
	TOT %	4.3	3.6	2.4	2.9	3.6	8.2	5.4	4.6	.0	.0	34.9	
	PCP	.2	*	.1	.2	.4	.3	.1	.2	.0	*	1.5	
10+	NO PCP	5.2	3.2	1.6	1.6	3.7	12.4	12.9	8.3	.0	.8	49.7	
	TOT %	5.4	3.2	1.7	1.8	4.1	12.6	13.0	8.5	.0	.9	51.2	
	TOT OBS												2047
	TOT PCT	11.0	8.7	5.6	6.0	10.1	24.1	19.3	14.1	.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
	0-3	.0	.0	.0	.0	*	.2	.0	.0	.0	.2	.5	
<1/2	4-10	.1	*	.2	.1	.2	.3	.2	*	.0		1.2	
	11-21	.2	.2	.1	.1	.5	.4	.1	.0	.0		1.6	
	22+	.1	.0	.0	.2	.1	.2	.0	.2	.0		.7	
	TOT %	.4	.3	.4	.4	.8	1.1	.3	.2	.0	.2	3.9	
	0-3	.0	*	.0	.0	*	.1	.0	.0	.0	.0	.2	
1/2<1	4-10	.1	.1	.1	.2	.1	.3	.1	*	.0		1.1	
	11-21	.1	.3	.1	*	.3	.2	.0	.1	.0		1.1	
	22+	.1	.1	.1	*	.2	*	*	.2	.0		.6	
	TOT %	.3	.6	.3	.3	.6	.7	.1	.3	.0	.0	3.0	
	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
1<2	4-10	.0	*	*	.1	.0	.0	.0	.0	.0		.1	
	11-21	*	.0	.1	*	.1	.2	.0	.0	.0		.5	
	22+	*	*	.0	*	.2	.2	.1	.1	.0		.6	
	TOT %	.1	.1	.1	.2	.3	.3	.1	.1	.0	.0	1.2	
	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	*	.1	
2<5	4-10	.1	.1	.2	.1	.1	.2	.1	.1	.0		.9	
	11-21	.1	.4	.3	.1	.5	.7	.3	.1	.0		2.6	
	22+	.2	.3	.2	.3	.3	.4	.0	.2	.0		1.9	
	TOT %	.4	.8	.7	.6	.9	1.3	.4	.4	.0	*	5.6	
	0-3	.1	*	.1	*	*	.1	.2	.0	.0	*	.6	
5<10	4-10	1.0	.8	.8	.7	.8	1.2	1.2	1.2	.0		7.6	
	11-21	1.9	1.5	.8	1.1	1.8	4.7	2.5	2.1	.0		16.4	
	22+	1.2	1.2	.5	1.0	.9	2.0	1.3	1.4	.0		9.5	
	TOT %	4.2	3.5	2.3	2.8	3.6	7.9	5.2	4.6	.0	*	34.2	
	0-3	.3	.1	*	*	.1	.2	.3	.2	.0	.9	2.2	
10+	4-10	2.0	1.5	1.0	.8	1.0	3.3	3.7	2.6	.0		16.0	
	11-21	2.6	1.3	.5	.8	1.9	5.7	6.3	4.1	.0		23.2	
	22+	.8	.5	.3	.1	.9	3.6	2.8	1.6	.0		10.6	
	TOT %	5.7	3.4	1.8	1.8	4.0	12.8	13.1	8.6	.0	.9	52.1	
	TOT OBS												2159
	TOT PCT	11.1	8.7	5.6	6.0	10.1	24.1	19.1	14.1	.0	1.2	100.0	

OCTOBER

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1869-1970

AREA 0001 BELLE ISLE STRAIT
50.8N 57.1W

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	4.8	.6	1.3	7.7	12.2	11.5	1.3	2.2	1.6	2.6	45.8	54.2	312
06&09	6.6	.4	4.3	7.4	13.2	9.7	3.9	.0	.8	1.9	48.1	51.9	258
12&15	3.0	1.1	2.2	10.3	15.4	11.9	4.6	.0	.8	2.7	52.3	47.7	369
18&21	4.1	.3	3.8	9.1	17.1	13.2	3.8	1.2	1.5	1.5	55.6	44.4	340
TOT	57	8	36	112	187	150	44	14	15	26	649	630	1279
PCT	4.5	.6	2.8	8.8	14.6	11.7	3.4	1.1	1.2	2.0	50.7	49.3	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	4.4	2.4	.6	4.4	39.1	49.1	617
06&09	2.6	2.8	1.4	5.2	34.1	53.9	425
12&15	4.2	3.9	1.5	6.2	34.4	49.7	660
18&21	4.1	2.6	1.4	7.3	28.1	56.6	909
TOT	87	66	27	127	756	1148	2211
PCT	3.9	3.0	1.2	5.7	34.2	51.9	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	4.7	7.0	18.7	30.8	50.5	299
06&09	7.0	12.3	21.8	29.6	48.6	243
12&15	2.8	8.5	22.8	34.2	43.9	355
18&21	3.9	8.4	22.2	34.5	43.2	333
TOT	54	105	264	397	569	1230
PCT	4.4	8.9	21.5	32.3	46.3	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
65/69	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
60/64	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
55/59	.0	.0	.0	.2	.2	.2	.4	.6	24	1.7
50/54	.0	.1	.2	.2	1.0	2.2	3.5	3.0	144	10.3
45/49	.0	.1	.1	.4	1.9	4.9	8.8	9.4	359	25.8
40/44	.0	.1	.1	1.1	3.4	5.2	10.0	11.5	441	31.6
35/39	.0	.1	.1	.9	2.7	4.9	5.2	7.5	297	21.3
30/34	.0	.0	.1	.6	1.6	1.5	1.8	2.3	112	8.0
25/29	.0	.0	.0	.3	.0	.1	.4	.3	14	1.0
20/24	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
TOTAL	0	7	10	53	154	267	419	484	1394	100.0
PCT	.0	.5	.7	3.8	11.0	19.2	30.1	34.7		

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	.0	.0
	.1	.0	.0	.1	.5	.8	.2	.0	.0	.0
	.4	.5	.4	.5	1.8	3.9	1.8	1.0	.0	.1
	2.0	2.4	1.3	2.0	3.2	8.1	4.6	1.8	.0	.4
	2.5	2.8	1.6	1.7	2.7	8.4	7.5	4.0	.0	.4
	3.7	1.9	1.1	.8	1.3	3.5	3.6	4.8	.0	.6
	1.7	.7	.1	.2	.2	.8	1.8	2.4	.0	.1
	.2	.1	.0	.0	.0	.0	.2	.4	.0	.0
	.1	.0	.0	.0	.0	.0	*	.0	.0	.0
	10.7	8.4	4.6	5.3	9.9	25.4	19.7	14.5	.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
00&03	65	55	51	42	33	30	28	42.3	839
06&09	61	56	52	42	32	27	24	41.9	437
12&15	59	55	51	42	32	28	25	41.7	684
18&21	60	57	52	43	34	31	29	43.1	516
TOT	65	55	52	42	33	29	24	42.2	2276

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	10.4	18.6	34.3	32.4	83	376
06&09	.0	2.7	9.8	16.2	33.0	38.4	84	297
12&15	.0	4.1	11.0	19.9	28.1	36.8	83	391
18&21	.0	9.1	12.8	20.7	25.6	31.8	80	352
TOT	0	72	156	269	427	492	82	1416

OCTOBER

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1869-1970

AREA 0001 BELLE ISLE STRAIT
50.8N 57.1W

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	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.3	.2	.1	.0	.0	9	.1	.4
11/13	.0	.0	.0	.0	.0	.0	.2	.5	.2	.1	.0	.0	17	.1	.9
9/10	.0	.0	.0	.0	.0	.1	.3	.4	.2	.1	.0	.1	20	.1	1.0
7/8	.0	.0	.0	.0	.1	.3	1.1	.6	.3	.1	.0	.0	46	.3	2.1
6	.0	.0	.0	.0	.0	.5	1.4	.5	.2	.0	.0	.0	50	.2	2.4
5	.0	.0	.0	.0	.4	1.3	1.2	.6	.3	.1	.1	.0	75	.4	3.6
4	.0	.0	.0	.0	.3	1.8	1.6	1.0	.4	.2	.0	.0	100	.6	4.7
3	.0	.0	.0	.0	1.2	2.7	1.5	1.5	.4	.1	.0	.0	139	1.1	6.3
2	.0	.0	.0	.4	2.0	3.4	2.5	1.0	.2	.1	.0	.0	180	1.0	8.6
1	.0	.0	.0	.4	3.2	2.6	2.2	1.3	.3	.1	.0	.0	191	.9	9.3
0	.0	.0	.0	.9	2.7	2.3	2.0	1.3	.1	.0	.0	.0	174	.9	8.3
-1	.0	.0	.0	1.1	2.6	1.9	2.2	.7	.2	.0	.0	.0	166	.5	8.3
-2	.0	.0	.1	1.3	2.1	1.5	1.4	.5	.2	.0	.0	.0	134	.3	6.8
-3	.0	.0	.2	1.3	1.5	1.9	1.3	.6	.0	.1	.0	.0	128	.3	6.5
-4	.0	.0	.3	1.3	1.3	1.4	.6	.2	.0	.1	.0	.0	97	.2	5.0
-5	.0	.1	.4	.8	1.1	1.2	.7	.2	.0	.0	.0	.0	83	.1	4.4
-6	.0	.0	.6	.4	.7	1.0	.5	.0	.0	.0	.0	.0	62	.0	3.3
-7/-8	.0	.1	.9	1.3	1.7	1.1	.3	.0	.1	.0	.0	.0	102	.1	5.3
-9/-10	.0	.3	1.0	.9	1.0	.5	.1	.1	.0	.0	.0	.0	70	.0	3.7
-11/-13	.1	.2	.4	.4	.2	.1	.0	.0	.0	.0	.0	.0	25	.0	1.3
-14/-16	.0	.0	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	10	.0	.5
-17/-19	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	1	11	76	199	420	481	403	213	59	16	1	1	1881	131	1750
PCT	.1	.6	4.0	10.6	22.3	25.6	21.4	11.3	3.1	.9	.1	.1	100.0	7.0	93.0

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	.0	.3	.0	.0	.0	.0	.3
1-2	.2	.6	1.7	.0	.0	.0	2.5
3-4	.0	1.2	2.2	.4	.0	.0	3.8
5-6	.0	.2	1.8	.3	.0	.0	2.3
7	.0	.0	.0	.4	.0	.0	.4
8-9	.0	.0	.0	.7	.1	.0	.8
10-11	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.1	.2	.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	.2	2.3	5.8	2.3	.3	.0	11.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.2	.0	.0	.0	.9
1-2	.4	1.5	1.8	.0	.0	.0	3.7
3-4	.0	.6	2.0	.9	.0	.0	3.5
5-6	.0	.0	.5	.7	.0	.0	1.3
7	.0	.2	.5	.0	.0	.0	.7
8-9	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.0	.1	.4	.0	.4
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	.4	3.0	5.1	2.8	.5	.0	11.8

F

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5
1-2	.0	.7	.4	.0	.0	.0	1.1
3-4	.0	.0	.7	.0	.0	.0	.7
5-6	.0	.0	.9	.1	.0	.0	1.0
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	.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	.2	1.1	1.9	.6	.0	.0	3.7

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	1.2	.6	.0	.0	.0	1.8
3-4	.0	.4	.4	.0	.0	.0	.8
5-6	.0	.0	1.3	.2	.0	.0	1.5
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	.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	.2	.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	.0	2.0	2.2	.4	.4	.2	5.2

PERIOD: (OVER-ALL) 1963-1970 OCTOBER AREA 0001 BELLE ISLE STRAIT

TABLE 18 (CONT) 50.0N 57.1W

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	.3	.0	.0	.0	.6
1-2	.2	1.1	.4	.0	.0	.0	1.7
3-4	.0	.3	2.2	.5	.0	.0	3.0
5-6	.0	.1	2.3	.5	.2	.0	3.1
7	.0	.0	.5	1.0	.0	.0	1.5
8-9	.0	.0	.1	.4	.2	.0	.7
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	.2	1.8	5.9	2.5	.4	.0	10.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.3	*	.0	.0	.0	1.7
1-2	.0	1.3	1.3	.0	.0	.0	2.6
3-4	.0	.8	6.3	1.6	.0	.0	8.7
5-6	.0	.2	3.1	1.4	.2	.0	4.9
7	.0	.0	1.1	1.7	.2	.0	3.0
8-9	.0	.2	.2	1.5	.4	.0	2.2
10-11	.0	.0	.0	.4	.0	.2	.5
12	.0	.0	.0	*	.2	.0	.2
13-16	.0	.0	.0	.0	.4	.0	.4
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	.4	3.8	12.1	6.6	1.4	.2	24.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	.2	.0	.0	.0	1.3
1-2	.1	1.8	1.0	.0	.0	.0	2.9
3-4	.0	2.3	4.1	.6	.0	.0	7.0
5-6	.0	.0	2.0	1.5	.0	.0	3.5
7	.0	.0	.7	.6	.2	.0	1.4
8-9	.0	.0	.6	.4	.0	.0	1.0
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.2	.5	.2	.9
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.2	.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	4.9	8.5	3.4	.7	.4	18.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	.6	.0	.0	.0	.0	.9	
1-2	*	1.1	1.2	.0	.0	.0	2.3	
3-4	.0	.7	3.0	.4	.0	.0	4.1	
5-6	.0	.4	.9	.6	.0	.0	1.8	
7	.0	.0	.7	1.0	.5	.0	2.2	
8-9	.0	.0	.0	.4	*	.0	.5	
10-11	.0	.0	.0	.2	.0	.0	.2	
12	.0	.2	.2	.2	.0	.0	.6	
13-16	.0	.0	.0	.4	.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	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	2.9	6.0	3.2	.7	.0	13.2	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	3.8	5.0	.7	.0	.0	.0	9.5	
1-2	.9	9.2	8.3	.0	.0	.0	18.4	
3-4	.0	6.3	20.7	4.2	.0	.0	31.1	
5-6	.0	.9	12.7	5.2	.3	.0	19.1	
7	.0	.2	3.5	5.0	.9	.0	9.5	
8-9	.0	.2	.9	3.8	.7	.0	5.6	
10-11	.0	.0	.0	1.7	.0	.2	1.9	
12	.0	.2	.2	1.0	.7	.0	2.1	
13-16	.0	.0	.0	.5	1.6	.2	2.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.2	.2	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.2	.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	
								576
TOT PCT	4.7	21.9	46.9	21.5	4.3	.7	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	3.0	10.8	21.2	10.2	3.1	1.6	.7	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	483	4
6-7	.0	1.2	5.0	5.8	3.2	3.6	1.9	1.3	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	215	6
8-9	.0	.4	1.2	1.6	1.7	1.1	.7	.6	.5	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	77	8
10-11	.0	.3	.3	.3	.6	.3	.4	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	7
12-13	.0	.0	.3	.1	.0	.1	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
>13	.0	.0	.0	.2	.2	.1	.1	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	10
INDET	4.6	2.6	2.5	1.4	.7	.5	.3	.1	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	127	3
TOTAL	72	145	289	186	90	69	42	22	23	2	5	0	2	0	0	0	0	0	0	947	5
PCT	7.6	15.3	30.5	19.6	9.5	7.3	4.4	2.3	2.4	.2	.5	.0	.2	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1928-1970
(OVER-ALL) 1869-1970

AREA 0001 BELLE ISLE STRAIT
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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	3.6	2.4	3.2	.0	12.2	.0	.6	21.2	6.9	.0	1.3	.0	.0	.0	.0	70.6
NE	17.8	8.5	4.1	.0	19.0	.0	.2	43.1	5.4	.0	3.9	.0	.0	.0	.0	47.7
E	10.3	6.1	6.1	.0	8.9	.0	.0	27.1	5.1	.0	6.5	.0	.0	.0	.0	61.2
SE	18.3	4.9	9.1	.0	6.1	.0	.0	35.0	1.1	.0	10.3	.0	.0	.0	.0	53.6
S	12.3	3.0	7.7	.0	1.8	.0	.0	24.2	3.6	.0	8.9	.0	.0	.0	.0	63.2
SW	8.4	1.3	4.1	.0	5.7	.0	.0	17.7	2.9	.0	12.5	.0	.0	.0	.0	66.8
W	4.0	.2	.6	.0	6.8	.0	.0	10.7	2.1	.5	.5	.0	.5	.0	.0	85.8
NW	5.0	.7	3.7	.0	5.9	.0	.0	14.6	3.4	.0	2.5	.0	.0	.0	.0	79.6
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	12.5	.0	12.5	.0	12.5	.0	.0	62.5
TOT PCT	8.5	2.5	4.0	.0	7.7	.0	.1	20.9	3.7	.1	5.7	.0	.2	.0	.0	69.5
TOT OBS:	1041															

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	10.4	3.0	2.2	.0	10.4	.0	.0	25.4	3.4	.0	5.6	.0	.0	.0	.0	65.7
06609	9.6	3.2	5.0	.0	4.1	.0	.0	18.7	2.7	.0	5.9	.0	.0	.0	.0	72.6
12615	7.2	1.6	4.6	.0	6.3	.0	.0	17.8	3.6	.3	8.2	.0	.3	.0	.0	69.7
18621	7.5	2.1	4.3	.0	8.9	.0	.4	21.4	4.6	.0	5.7	.0	.4	.0	.0	67.9
TOT PCT	8.6	2.4	4.0	.0	7.6	.0	.1	20.8	3.6	.1	6.4	.0	.2	.0	.0	68.8
TOT OBS:	1071															

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	3.0	5.1	2.6	.8	.2		12.0	17.3	10.6	11.7	6.2	21.3	13.8	15.6	11.2	10.7
NE	.3	2.2	4.0	1.9	1.5	.1		10.0	19.1	8.3	10.2	7.7	9.8	13.1	9.6	12.1	6.5
E	.4	1.8	1.8	.9	.1	.0		5.0	14.0	3.9	10.5	6.7	4.4	3.7	4.7	3.6	6.5
SE	.2	1.9	3.0	.9	.2	.0		6.1	15.1	7.3	8.3	6.7	2.0	5.3	5.5	6.2	6.0
S	.2	2.6	5.8	2.0	.7	.0		11.3	17.1	11.3	8.6	10.7	9.8	12.6	9.4	10.9	15.4
SW	.6	6.0	9.1	4.6	1.0	.0		21.3	16.3	23.7	22.8	18.6	19.9	14.4	23.7	26.2	24.2
W	.5	5.4	9.2	4.2	.9	.1		20.3	16.3	20.0	16.4	22.3	16.2	20.6	22.9	20.0	21.1
NW	.9	4.4	4.8	2.5	.6	.1		13.3	15.2	14.1	11.4	19.6	15.2	14.8	8.6	10.0	9.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0	1.0	.0	1.3	1.4	1.8	.0	.0	.0
TOT OBS	47	306	480	221	65	5	1124		16.3	206	81	149	74	227	96	195	96
TOT PCT	4.2	27.2	42.7	19.7	5.8	.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	1.6	4.8	3.9	1.3	.5		12.0	17.3	10.9	11.2	14.3	11.0
NE	.9	4.6	2.3	1.6	.7		10.0	19.1	8.8	8.4	12.1	10.2
E	.8	2.5	1.3	.3	.0		5.8	14.0	5.7	5.9	4.0	4.6
SE	.5	3.2	1.9	.4	.0		6.1	15.1	7.6	5.2	5.3	6.1
S	.9	4.7	4.4	1.2	.0		11.3	17.1	10.5	10.4	11.6	12.4
SW	1.7	10.6	6.3	2.7	.0		21.3	16.3	23.4	19.1	17.2	25.5
W	2.3	9.4	5.8	2.5	.2		20.3	16.3	19.0	20.3	21.3	20.4
NW	2.2	6.1	3.4	1.5	.1		13.3	15.2	13.3	18.2	12.9	9.9
VAR	.0	.0	.0	.0	.0		.8	.0	.0	.0	.0	.0
CALM	.8						.8	.0	.7	1.3	1.2	.0
TOT OBS	132	515	330	131	16	1124		16.3	287	223	323	291
TOT PCT	11.7	45.8	29.4	11.7	1.4		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1928-1970
(OVER-ALL) 1869-1970

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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	.7	4.9	24.4	42.5	20.2	6.6	.7	16.6	100.0	287
06&09	1.3	2.2	30.0	43.0	17.9	4.9	.4	16.0	100.0	223
12&15	1.2	3.1	27.9	40.9	20.1	6.2	.6	16.4	100.0	323
18&21	.0	3.1	27.1	44.7	19.9	5.2	.0	16.3	100.0	291
TOT	9	38	306	480	221	65	5	16.3		1124
PCT	.8	3.4	27.2	42.7	19.7	5.8	.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	1.3	.7	3.5	6.3		6.5
NE	.6	.8	1.7	5.6		6.8
E	.2	.3	.6	4.3		7.3
SE	.2	.2	.8	5.7		7.5
S	.4	.4	2.9	9.4		7.3
SW	3.3	1.5	4.5	9.7		6.0
W	8.2	2.8	4.1	6.1		4.3
NW	3.0	1.2	3.7	5.4		5.6
VAR	.0	.0	.0	.0		.0
CALM	.2	.0	.0	.6		6.8
TOT OBS	112	51	141	345	649	6.1
TOT PCT	17.3	7.9	21.7	53.2	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	.3	.0	.5	1.6	3.4	1.7	.6	.2	.0	.2	3.4	
NE	*	.2	.2	1.5	2.6	1.1	.3	.2	.0	.2	2.5	
E	.0	.0	.1	.6	1.4	1.1	1.1	.0	.0	.0	1.0	
SE	.3	.0	.2	.1	1.9	2.1	.7	.1	.0	.2	1.2	
S	.7	.0	.2	.9	3.0	2.5	.5	.1	.3	.8	4.2	
SW	1.4	.2	.3	.9	4.2	2.5	1.2	.2	.2	.3	7.6	
W	.7	.2	.0	1.4	3.8	1.0	.3	.3	.0	.3	13.2	
NW	.6	.0	.3	1.7	2.6	1.2	.8	.0	.0	.0	4.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.0	.0	.3	.0	.0	.2	.0	.2	
TOT OBS	27	3	12	56	149	88	36	6	4	13	255	649
TOT PCT	4.2	.5	1.8	8.6	23.0	13.6	5.5	.9	.6	2.0	39.3	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	1.4	2.4	2.6	2.6	2.6	2.6	2.6	2.6
= OR >5000	1.8	3.3	3.5	3.5	3.5	3.5	3.5	3.5
= OR >3500	4.7	8.5	8.8	8.9	8.9	8.9	8.9	8.9
= OR >2000	11.6	20.7	21.8	22.5	22.5	22.5	22.5	22.5
= OR >1000	25.2	40.2	43.7	45.0	45.2	45.2	45.2	45.2
= OR >600	28.9	46.5	51.5	53.9	54.1	54.1	54.1	54.1
= OR >300	29.6	47.6	52.7	55.3	55.7	55.7	55.9	55.9
= OR >150	29.6	47.7	52.9	55.6	56.2	56.2	56.3	56.3
= OR > 0	29.6	48.2	54.4	57.4	58.6	59.5	60.9	61.0
TOTAL	196	319	360	380	388	394	403	404

TOTAL NUMBER OF OBS: 662

PCT FREQ NH <5/8: 39.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.7	8.2	9.0	5.9	4.8	5.1	5.7	8.1	38.9	3.7	731

NOVEMBER

PERIOD: (PRIMARY) 1928-1970
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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
	PCP	.1	*	.0	.0	.0	.2	.2	.4	.0	.0	1.0	
<1/2	NO PCP	*	.0	.0	.3	.1	1.0	.1	.1	.0	.1	1.8	
	TOT %	.1	*	.0	.3	.1	1.3	.3	.5	.0	.1	2.8	
	PCP	.2	.6	.3	.3	.2	.4	.1	.2	.0	.0	2.3	
1/2<1	NO PCP	*	.1	.2	.3	.5	.8	.1	.3	.0	.1	2.5	
	TOT %	.2	.8	.5	.6	.7	1.2	.3	.5	.0	.1	4.8	
	PCP	.5	.6	.2	*	.4	.3	.3	.2	.0	.0	2.4	
1<2	NO PCP	.0	.1	.0	.0	.0	.3	.1	.2	.0	.0	.7	
	TOT %	.5	.7	.2	*	.4	.6	.4	.4	.0	.0	3.1	
	PCP	.5	1.3	.4	.3	.5	.7	.3	.4	.0	.0	4.4	
2<5	NO PCP	.1	.3	.1	.1	.7	.7	.2	.0	.0	.0	2.2	
	TOT %	.6	1.6	.5	.4	1.2	1.4	.5	.4	.0	.0	6.6	
	PCP	.5	1.4	.5	1.5	1.4	1.8	1.0	.6	.0	.0	8.9	
5<10	NO PCP	3.0	2.1	1.3	1.7	3.2	4.1	5.5	3.8	.0	.3	24.8	
	TOT %	3.5	3.5	1.9	3.2	4.6	5.9	6.5	4.3	.0	.3	33.7	
	PCP	.7	.3	.0	.1	.4	.1	.2	.2	.0	.0	2.0	
10+	NO PCP	5.7	3.0	2.1	1.7	4.4	10.0	12.6	7.2	.0	.3	47.0	
	TOT %	6.3	3.3	2.1	1.8	4.8	10.1	12.8	7.5	.0	.3	49.0	
	TOT OBS												1039
	TOT PCT	11.2	9.9	5.1	6.3	11.8	20.4	20.9	13.5	.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
	0-3	.0	.0	.0	.1	.0	.1	.1	.3	.0	.1	.7	
<1/2	4-10	*	.0	.0	.1	.1	.4	.2	*	.0		.8	
	11-21	.0	.0	.0	.1	.0	.4	*	.0	.0		.6	
	22+	.1	*	.0	*	.1	.4	.1	.1	.0		.7	
	TOT %	.1	*	.0	.3	.1	1.3	.4	.5	.0	.1	2.9	
	0-3	*	.0	.0	.0	.1	.0	.0	.2	.0	.1	.5	
1/2<1	4-10	.0	.0	.2	.2	.0	.6	.0	.2	.0		1.3	
	11-21	.2	.3	.2	.2	.4	.3	.2	*	.0		1.8	
	22+	.0	.5	.1	.1	.2	.2	.1	.0	.0		1.1	
	TOT %	.2	.7	.5	.5	.6	1.1	.3	.5	.0	.1	4.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.2	.1	.1	.1	.1	.2	.1	.2	.0		1.0	
	11-21	.1	.2	.0	.0	.1	.3	.2	.1	.0		.9	
	22+	.2	.4	.1	.0	.2	.1	.1	*	.0		1.1	
	TOT %	.4	.7	.2	.1	.4	.5	.4	.3	.0	.0	3.0	
	0-3	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2	
2<5	4-10	.3	.3	.1	.1	.2	.3	.1	.2	.0		1.6	
	11-21	.0	.4	.2	.1	.4	.7	.3	*	.0		2.1	
	22+	.2	.7	.2	.2	.6	.6	.1	.2	.0		2.9	
	TOT %	.6	1.5	.5	.4	1.2	1.6	.5	.4	.0	.0	6.7	
	0-3	*	*	.1	.1	.1	.2	.2	.3	.0	.3	1.3	
5<10	4-10	.9	.8	.4	.6	1.1	1.7	1.9	1.5	.0		8.8	
	11-21	1.7	1.5	.8	1.8	2.6	2.6	2.3	1.3	.0		14.7	
	22+	.7	1.0	.4	.6	.7	1.7	1.9	1.1	.0		8.1	
	TOT %	3.3	3.4	1.8	3.1	4.5	6.2	6.2	4.1	.0	.3	32.9	
	0-3	.2	.1	.3	.0	.0	.2	.2	.1	.0	.3	1.4	
10+	4-10	1.2	1.0	1.0	.7	1.1	2.7	3.3	2.2	.0		13.4	
	11-21	2.8	1.4	.6	.9	2.5	5.0	6.3	3.4	.0		22.8	
	22+	2.4	1.1	.3	.1	1.1	2.5	3.1	1.8	.0		12.4	
	TOT %	6.6	3.6	2.1	1.7	4.7	10.4	12.9	7.5	.0	.3	49.9	
	TOT OBS												1085
	TOT PCT	11.3	9.9	5.1	6.2	11.5	21.2	20.7	13.3	.0	.7	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1928-1970
(OVER-ALL) 1869-1970

AREA 0001 BELLE ISLE STRAIT
50.8N 57.1W

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	3.9	.7	2.0	9.2	17.1	21.7	7.2	.7	.7	2.0	65.1	34.9	152
06&09	1.4	.0	.7	4.3	20.6	14.2	8.5	2.1	.0	2.1	53.9	46.1	141
12&15	5.7	.0	2.6	8.2	24.7	7.7	3.1	.0	.5	1.5	54.1	45.9	194
18&21	6.0	1.0	1.5	11.4	24.4	10.9	3.5	1.0	1.0	2.0	62.7	37.3	201
TOT	31	3	12	59	152	90	36	6	4	13	406	282	688
PCT	4.5	.4	1.7	8.6	22.1	13.1	5.2	.9	.6	1.9	59.0	41.0	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	4.5	3.8	3.1	5.6	36.0	46.9	286
06&09	1.8	3.1	2.2	7.6	30.9	54.3	223
12&15	5.1	5.7	2.2	8.6	34.6	43.8	315
18&21	2.1	5.2	4.5	5.5	29.3	53.4	290
TOT	39	51	34	76	366	548	1114
PCT	3.5	4.6	3.1	6.8	32.9	49.2	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 <3	1000+ AND3+	NH <5/8 AND 5+	TOTAL OBS
00&03	4.2	8.4	23.1	47.6	29.4	143
06&09	1.5	2.2	11.7	43.8	44.5	137
12&15	5.9	9.2	27.6	31.9	40.5	185
18&21	6.1	9.1	23.9	40.1	36.0	197
TOT	31	50	147	266	249	662
PCT	4.7	7.6	22.2	40.2	37.6	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
50/54	.0	.0	.0	.0	.0	.0	1.6	1.0	18	2.6
45/49	.0	.0	.0	.0	.1	1.0	1.5	3.4	41	6.0
40/44	.0	.0	.0	.4	.7	3.4	6.4	9.6	141	20.6
35/39	.0	.1	.1	.3	2.8	5.0	9.6	14.9	225	32.8
30/34	.0	.0	.0	1.0	2.0	4.4	6.7	9.0	159	23.2
25/29	.0	.0	.0	.7	1.6	2.8	1.6	2.3	62	9.0
20/24	.0	.0	.0	.0	.3	1.2	1.3	2.2	34	5.0
15/19	.0	.0	.0	.0	.1	.1	.3	.3	6	.9
TOTAL	0	1	1	17	53	122	199	293	686	100.0
PCT	.0	.1	.1	2.5	7.7	17.8	29.0	42.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	1.3	.5	.6	.0	.0	.0	.1
.3	.0	.3	.4	2.3	2.0	.3	.3	.0	.1
1.3	1.4	1.4	1.8	4.3	5.4	3.2	1.6	.0	.1
5.4	3.8	2.3	2.5	3.5	6.0	5.3	3.6	.0	.4
3.0	2.8	1.7	.7	2.0	3.1	5.9	3.8	.0	.1
1.6	.2	.0	*	.3	1.0	3.2	2.7	.0	.0
.8	.0	.0	.0	.0	.4	2.6	1.1	.0	.0
.1	.0	.0	.0	.0	.1	.3	.3	.0	.0
12.5	8.2	5.7	6.8	13.0	18.7	20.7	13.4	.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	52	51	46	36	25	20	19	35.8	299
06&09	52	50	45	35	24	19	18	35.4	230
12&15	52	51	46	36	23	19	18	35.3	329
18&21	52	50	47	37	26	21	19	36.8	295
TOT	52	50	46	36	24	19	18	35.8	1153

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	7.9	18.1	27.1	45.2	86	177
06&09	.0	3.5	6.3	16.2	28.2	45.8	86	142
12&15	.0	2.6	9.5	16.3	26.3	45.3	85	190
18&21	.0	3.0	6.6	18.8	33.5	38.1	84	197
TOT	0	19	54	123	204	306	85	706

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PERIOD: (PRIMARY) 1928-1970
(OVER-ALL) 1869-1970

AREA 0001 BELLE ISLE STRAIT
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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	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.2	2	.0	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.2	.6	7	.1	.7
9/10	.0	.0	.0	.0	.0	.0	.1	.3	.7	10	.0	1.1
7/8	.0	.0	.0	.0	.0	.0	1.2	.6	.5	20	.5	1.8
6	.0	.0	.0	.0	.0	.9	1.4	.7	.3	24	.1	2.6
5	.0	.0	.0	.0	.1	1.1	.7	.6	.0	22	.8	1.7
4	.0	.0	.0	.1	.2	1.7	1.2	.6	.1	35	.6	3.4
3	.0	.0	.0	.0	.9	2.8	1.0	.8	.1	50	.9	4.8
2	.0	.0	.0	.0	1.6	2.6	1.9	.8	.0	61	.8	6.1
1	.0	.0	.0	.1	2.7	2.9	1.2	.5	.0	66	1.0	6.5
0	.0	.0	.0	.6	2.8	2.9	1.1	.2	.0	68	.3	7.4
-1	.0	.0	.0	.1	3.7	2.2	.7	.0	.0	59	.5	6.2
-2	.0	.0	.0	.7	2.3	1.9	.8	.0	.0	50	.0	5.7
-3	.0	.0	.1	2.0	2.3	1.1	1.0	.0	.0	58	.2	6.3
-4	.0	.0	.2	1.7	2.0	1.4	.8	.1	.0	55	.0	6.2
-5	.0	.1	1.1	2.2	2.8	1.6	.2	.0	.0	71	.2	7.8
-6	.0	.2	.7	1.0	1.8	.9	.7	.0	.0	47	.0	5.3
-7/-8	.0	.3	1.7	1.7	3.2	1.1	.0	.0	.0	71	.2	7.8
-9/-10	.3	1.0	1.0	1.8	1.2	.3	.0	.0	.0	51	.1	5.7
-11/-13	.3	1.4	1.2	.7	.5	.0	.0	.0	.0	36	.0	4.1
-14/-16	.7	.8	.2	.0	.0	.0	.0	.0	.0	15	.0	1.7
-17/-19	.2	.2	.0	.0	.0	.0	.0	.0	.0	4	.0	.5
-20/-22	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	15	36	56	112	249	221	125	47	22	883	56	827
PCT	1.7	4.1	6.3	12.7	28.2	25.0	14.2	5.3	2.5	100.0	6.3	93.7

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	.6	.3	.0	.0	.0	.9
1-2	.0	1.7	1.8	.0	.0	.0	3.6
3-4	.0	.7	1.9	2.4	.0	.0	5.0
5-6	.0	.3	.0	1.0	.3	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	1.2	.6	.0	1.8
10-11	.0	.3	.0	.0	.3	.0	.5
12	.0	.0	.0	.3	.0	.3	.7
13-16	.0	.0	.0	.0	.3	.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	3.7	4.0	4.9	1.5	.3	14.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.3	.0	.0	.0	1.0
1-2	.0	1.9	.9	.0	.0	.0	2.8
3-4	.0	.0	1.0	.7	.0	.0	1.7
5-6	.0	.0	.7	.7	.1	.0	1.5
7	.0	.0	.0	.3	.3	.0	.7
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.1	.0	.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	.3	2.4	2.9	1.8	.4	.0	7.8

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	.0	.0	.0	.0	.3
3-4	.0	.0	.0	.7	.0	.0	.7
5-6	.0	.0	.3	.3	.3	.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	.3	1.0	.3	.0	1.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.3	.0	.0	.0	1.0
1-2	.0	.5	.3	.0	.0	.0	.9
3-4	.0	.0	2.0	.3	.0	.0	2.4
5-6	.0	.0	.1	.5	.0	.0	.6
7	.0	.0	.1	.5	.0	.0	.6
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	.3	.9	2.9	1.7	.0	.0	5.8

PERIOD: (OVER-ALL) 1963-1970 NOVEMBER AREA 0001 BELLE ISLE STRAIT

TABLE 18 (CONT) 50.8N 57.1W

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	.3	.0	.0	.0	.7	.3	1.8	.0	.0	.0	.0	2.2
1-2	.0	2.4	1.7	.0	.0	.0	4.2	.0	1.2	1.5	.0	.0	.0	2.7
3-4	.0	.0	3.3	.0	.0	.0	3.3	.3	.0	4.1	.7	.0	.0	5.1
5-6	.0	.0	.9	1.6	.0	.0	2.4	.0	.0	.5	1.6	.0	.0	2.1
7	.0	.0	.9	2.1	.0	.0	3.0	.0	.0	.4	2.4	.3	.0	3.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.1	.0	.0	1.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.6	.0	.3	.0	1.0	.0	.0	.4	.0	.1	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	2.8	7.8	3.7	.3	.0	14.5	.7	3.0	7.3	6.2	.4	.0	17.7

	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	2.6	.0	.0	.0	.0	2.6	1.4	1.2	.1	.0	.0	.0	2.7	
1-2	.3	3.0	2.0	.0	.0	.0	5.3	.0	2.2	.8	.0	.0	.0	3.0	
3-4	.0	1.0	4.4	.6	.0	.0	6.0	.0	1.1	2.8	.5	.0	.0	4.4	
5-6	.0	.0	2.4	.9	.3	.0	3.6	.0	.0	.7	1.2	.7	.0	2.6	
7	.0	.0	.7	1.2	.0	.0	1.9	.0	.0	.0	.7	.3	.0	1.0	
8-9	.0	.0	.3	1.0	.3	.0	1.7	.0	.0	.0	.4	.4	.0	.9	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.3	.0	.3	.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	6.5	10.2	3.7	1.0	.0	21.7	1.4	4.5	4.4	3.2	1.6	.0	15.1	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	3.5	7.3	1.4	.0	.0	.0	12.2	
1-2	.3	13.5	9.0	.0	.0	.0	22.9	
3-4	.3	2.8	19.4	5.9	.0	.0	28.5	
5-6	.0	.3	5.6	7.6	1.7	.0	15.3	
7	.0	.0	2.1	7.3	1.0	.0	10.4	
8-9	.0	.0	.7	4.2	1.4	.0	6.3	
10-11	.0	.3	.0	.3	.3	.0	1.0	
12	.0	.0	.0	.7	.0	.3	1.0	
13-16	.0	.0	1.4	.0	1.0	.0	2.4	
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	
								288
TOT PCT	4.2	24.3	39.6	26.0	5.6	.3	100.0	

PERIOD: (OVER-ALL) 1950-1970 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	2.5	14.1	19.4	7.6	3.2	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	207	3
6-7	.0	.7	4.6	4.6	2.8	3.2	1.2	.5	.9	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	83	7
8-9	.0	.0	1.2	.9	2.8	1.6	.9	.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	7
10-11	.0	.2	.5	.2	.7	.9	.5	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	15	8
12-13	.0	.0	.2	.0	.2	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	9
>13	.0	.0	.0	.0	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
INDET	4.8	4.1	3.5	2.5	2.1	1.4	.0	.0	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	4
TOTAL	32	83	127	69	52	35	13	5	13	4	1	0	0	0	0	0	0	0	0	434	5
PCT	7.4	19.1	29.3	15.9	12.0	8.1	3.0	1.2	3.0	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1931-1970

AREA 0001 BELLE ISLE STRAIT
51.0N 57.0W

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	.0	.0	.0	15.7	.0	.0	15.7	.0	.0	.0	.0	.0	.0		84.3
NE	.5	.0	3.7	.0	20.4	1.9	.5	26.9	.0	.0	3.7	.0	.0	.0		69.4
E	17.8	.0	3.1	.0	13.2	6.2	2.3	39.5	3.1	.0	6.2	.0	.0	.0		51.2
SE	18.8	6.3	.0	.0	14.1	.0	6.3	39.1	6.3	.0	7.8	.0	.0	.0		46.9
S	15.2	5.3	.0	.0	12.6	.0	.0	30.5	1.3	.0	9.3	.0	.0	.0		58.9
SW	3.6	.0	1.6	.0	11.9	.0	1.6	18.6	4.0	.0	4.7	.0	.0	.0		72.7
W	.0	.0	.0	.0	11.9	1.6	.0	13.5	1.6	.0	6.7	.0	.0	.0		78.2
NW	1.3	.0	.0	.0	12.8	.0	.0	14.1	2.7	.0	2.7	.0	.0	.0		80.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	9.1	.0	.0	.0	9.1	.0	.0	18.2	.0	.0	45.5	.0	.0	.0		36.4
TOT PCT	5.0	.7	1.0	.0	13.0	1.0	.7	21.3	2.0	.0	5.7	.0	.0	.0		71.0
TOT OBS:	404															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCUPRENCE 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	.0	.0	.0	17.2	.0	.0	24.2	1.0	.0	4.0	.0	.0	.0		70.7
06&09	3.6	2.4	1.2	.0	12.0	2.4	.0	20.5	.0	.0	6.0	.0	.0	.0		73.5
12&15	4.7	.8	1.6	.0	14.1	1.6	.8	21.9	2.3	.0	7.0	.0	.0	.0		68.8
18&21	3.8	.0	1.0	.0	13.3	.0	1.9	19.0	3.8	.0	4.8	.0	.0	.0		72.4
TOT PCT	4.8	.7	1.0	.0	14.2	1.0	.7	21.4	1.9	.0	5.5	.0	.0	.0		71.1
TOT OBS:	415															

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	3.6	4.8	2.7	.5	.0		13.2	14.6	15.6	.0	11.7	25.0	10.0	19.0	13.7	18.2
NE	.8	3.4	5.5	3.1	.2	.0		13.0	15.2	11.4	20.0	17.7	25.0	10.8	20.0	9.9	9.1
E	.0	2.0	3.6	1.2	.7	.2		7.8	18.0	6.9	.0	10.0	7.5	13.0	3.0	4.3	.0
SE	.0	.3	2.1	1.2	.2	.0		3.9	19.8	4.7	.0	1.7	.0	9.5	2.0	7.0	.0
S	.2	1.7	3.9	3.3	.2	.0		9.4	18.7	11.4	20.0	14.7	10.0	5.8	7.0	6.5	9.1
SW	.8	4.0	5.7	4.7	.6	.0		15.8	17.2	16.4	2.5	14.3	.0	19.0	12.0	18.0	9.1
W	.4	6.0	6.0	2.4	.8	.0		15.6	15.6	17.2	17.5	12.7	.0	16.3	3.0	18.3	36.4
NW	.2	5.5	8.0	4.3	.5	.0		18.6	16.1	14.2	40.0	14.7	22.5	19.8	30.0	19.1	18.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7							2.7	.0	2.2	.0	2.7	10.0	2.0	4.0	3.2	.0
TOT OBS	28	110	164	98	16	1	414		16.0	90	10	75	10	100	25	93	11
TOT PCT	6.8	26.6	39.6	22.9	3.9	.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	2.9	6.0	2.3	2.0	.0		13.2	14.6	14.0	13.2	11.8	14.2
NE	2.2	5.2	4.8	.8	.0		13.0	15.2	12.3	18.5	12.6	9.9
E	1.2	3.1	1.9	1.1	.5		7.8	18.0	6.3	9.7	11.0	3.8
SE	.2	1.3	1.6	.7	.0		3.9	19.8	4.3	1.5	3.2	6.3
S	.8	2.8	4.6	1.1	.0		9.4	18.7	12.3	14.1	6.0	6.7
SW	2.2	5.6	6.2	1.8	.1		15.8	17.2	15.0	12.6	17.6	17.1
W	2.1	7.1	5.3	1.1	.2		15.6	15.6	17.3	11.2	13.6	20.2
NW	1.4	9.2	6.2	1.8	.0		18.6	16.1	16.8	15.6	21.8	19.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.7						2.7	.0	2.0	3.5	2.4	2.9
TOT OBS	65	167	136	43	3	414		16.0	100	85	125	104
TOT PCT	15.7	40.3	32.9	10.4	.7		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1931-1970

AREA 0001 BELLE ISLE STRAIT
51.0N 57.0W

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	2.0	4.0	27.0	44.0	20.0	3.0	.0	15.2	100.0	100
06&09	3.5	1.2	27.1	45.9	20.0	1.2	1.2	15.5	100.0	85
12&15	2.4	8.0	24.0	39.2	20.8	5.6	.0	16.2	100.0	125
18&21	2.9	1.9	28.8	30.8	30.8	4.8	.0	17.0	100.0	104
TOT	11	17	110	164	95	16	1	16.0		414
PCT	2.7	4.1	26.6	39.6	22.9	3.9	.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	3.2	1.1	3.9	4.3		5.2
NE	2.4	.6	2.2	6.9		6.1
E	.8	.0	1.8	5.9		7.0
SE	.2	.1	.5	3.6		7.5
S	.5	.8	.6	6.9		7.1
SW	4.9	.8	1.5	9.2		5.4
W	3.4	2.0	5.0	4.7		5.3
NW	6.3	2.7	5.3	6.2		5.0
VAR	.0	.0	.0	.0		.0
CALM	.3	.0	.3	1.2		6.5
TOT OBS	73	27	70	163	333	5.7
TOT PCT	21.9	8.1	21.0	48.9	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	.3	.0	.3	.0	1.8	2.6	.2	.3	.8	.3	5.9	
NE	.9	.3	1.1	1.3	2.6	1.8	.4	.1	.2	.2	3.4	
E	.3	.3	1.2	2.0	1.4	.3	.2	.2	.0	.2	2.5	
SE	.7	.3	.3	.3	1.0	1.2	.0	.0	.0	.0	.5	
S	1.4	.3	.3	.0	3.0	1.2	.0	.0	.2	.3	2.0	
SW	.8	.4	.4	1.4	3.8	2.1	.3	.0	.2	.0	7.1	
W	1.1	.0	.3	1.4	2.9	2.0	.0	.0	.3	.0	6.5	
NW	.0	.0	.0	1.7	3.6	2.9	.8	.0	.0	1.2	10.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.6	.0	.0	.0	.6	.0	.0	.0	.3	.0	.3	
TOT OBS	20	6	14	27	69	47	6	2	7	7	128	333
TOT PCT	6.0	1.8	4.2	8.1	20.7	14.1	1.8	.6	2.1	2.1	38.4	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	3.0	4.2	4.2	4.2	4.2	4.2	4.2	4.2
= OR >4000	3.6	4.7	4.7	4.7	4.7	4.7	4.7	4.7
= OR >3500	5.3	6.5	6.5	6.5	6.5	6.5	6.5	6.5
= OR >2000	14.5	19.6	20.5	20.5	20.8	20.8	20.8	20.8
= OR >1000	26.1	35.9	40.4	40.9	41.8	41.8	41.8	41.8
= OR >600	29.4	42.7	48.7	49.6	50.4	50.4	50.4	50.4
= OR >300	30.3	43.9	50.7	52.5	54.0	54.0	54.9	54.9
= OR >150	30.3	43.9	51.3	53.7	55.5	55.8	56.7	56.7
= OR > 0	30.6	44.2	52.8	56.1	58.2	60.2	62.6	62.6
TOTAL	103	149	178	189	196	203	211	211

TOTAL NUMBER OF OBS: 337 PCT FREQ NH <5/8: 37.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.7	7.0	9.5	5.0	3.6	3.1	5.6	10.3	39.3	5.0	359

DECEMBER

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1931-1970

AREA 0001 BELLE ISLE STRAIT
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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	.5	.6	.2	.6	.2	.0	.2	.0	.0	.0	2.2	
<1/2	NO PCP	.0	.2	.0	.0	.4	.2	.9	.0	.0	.7	2.5	
	TOT %	.5	.8	.2	.6	.6	.2	1.1	.0	.0	.7	4.7	
	PCP	.0	.5	.5	.0	.0	.2	.0	.0	.0	.0	1.2	
1/2<1	NO PCP	.0	.0	.2	.0	.0	.0	.0	.2	.0	.0	.5	
	TOT %	.0	.5	.7	.0	.0	.2	.0	.2	.0	.0	1.7	
	PCP	.0	.4	.6	.6	.6	.3	.0	.2	.0	.0	2.7	
1<2	NO PCP	.0	.2	.0	.0	.0	.3	.2	.2	.0	.0	1.0	
	TOT %	.0	.6	.6	.6	.6	.6	.2	.5	.0	.0	3.7	
	PCP	.4	.9	1.2	.1	1.5	.4	.9	1.3	.0	.5	7.4	
2<5	NO PCP	.4	.1	.0	.3	.7	.2	.5	.5	.0	.5	3.2	
	TOT %	.8	1.0	1.2	.4	2.2	.8	1.4	1.8	.0	1.0	10.6	
	PCP	.4	1.0	.2	.2	.5	1.8	.9	1.0	.0	.0	6.2	
5<10	NO PCP	2.2	1.7	.5	.9	1.2	3.0	.8	2.6	.0	.0	12.8	
	TOT %	2.6	2.7	.7	1.1	1.7	4.8	1.7	3.6	.0	.0	19.0	
	PCP	.7	.2	.4	.1	.2	.0	.0	.0	.0	.0	1.7	
10+	NO PCP	8.3	7.5	4.1	1.2	4.1	9.0	11.1	12.2	.0	1.0	58.5	
	TOT %	9.1	7.8	4.5	1.3	4.4	9.0	11.1	12.2	.0	1.0	60.2	
	TOT OBS												405
	TOT PCT	13.0	13.3	8.0	4.0	9.6	15.6	15.6	18.3	.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
	0-3	.0	.0	.0	.0	.0	.1	.2	.0	.0	.7	1.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.2	.0	.0	.4	.1	.0	.0	.0		.7	
	22+	.5	.6	.2	.6	.2	.1	.9	.0	.0		2.9	
	TOT %	.5	.8	.2	.6	.6	.2	1.1	.0	.0	.7	4.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.5	.2	.0	.0	.0	.0	.0	.0		.7	
	22+	.0	.0	.5	.0	.0	.2	.0	.2	.0		1.0	
	TOT %	.0	.5	.7	.0	.0	.2	.0	.2	.0	.0	1.7	
	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	.2	.0	.3	.2	.3	.2	.0	.0		1.2	
	22+	.0	.4	.6	.2	.4	.3	.0	.5	.0		2.5	
	TOT %	.0	.6	.6	.6	.6	.6	.2	.5	.0	.0	3.7	
	0-3	.2	.0	.0	.0	.0	.2	.0	.0	.0	1.0	1.5	
2<5	4-10	.2	.1	.5	.1	.2	.2	.4	.6	.0		2.2	
	11-21	.2	.6	.4	.2	.7	.2	.7	.5	.0		3.7	
	22+	.4	.4	.2	.1	1.3	.1	.2	.7	.0		3.4	
	TOT %	1.0	1.0	1.2	.4	2.2	.8	1.4	1.8	.0	1.0	10.8	
	0-3	.7	.3	.0	.0	.0	.6	.2	.0	.0	.0	1.7	
5<10	4-10	.5	1.0	.1	.1	.0	.6	.6	1.1	.0		3.9	
	11-21	.7	.6	.4	.5	.7	1.2	.7	2.0	.0		6.9	
	22+	.8	.7	.2	.5	1.0	2.5	.2	.7	.0		6.6	
	TOT %	2.7	2.6	.7	1.1	1.7	4.8	1.7	3.7	.0	.0	19.1	
	0-3	.7	.5	.0	.0	.2	.0	.0	.2	.0	1.0	2.7	
10+	4-10	3.0	2.5	1.4	.1	1.5	3.0	4.9	3.7	.0		20.1	
	11-21	3.7	3.4	2.6	1.1	1.8	3.9	4.4	5.4	.0		26.5	
	22+	1.5	1.3	.4	.1	.7	2.2	1.7	2.8	.0		10.8	
	TOT %	9.0	7.7	4.5	1.3	4.4	9.1	11.0	12.1	.0	1.0	60.0	
	TOT OBS												408
	TOT PCT	13.2	13.2	7.9	3.9	9.5	15.7	15.4	18.3	.0	2.7	100.0	

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1931-1970

AREA 0001 BELLE ISLE STRAIT
51.0N 57.0W

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	3.8	.0	3.8	3.8	24.1	13.9	.0	1.3	5.1	1.3	57.0	43.0	79
06&09	16.7	.0	3.0	6.1	15.2	12.1	1.5	.0	3.0	3.0	60.6	39.4	66
12&15	2.9	2.9	5.8	14.6	18.4	14.6	1.0	.0	.0	1.9	62.1	37.9	103
18&21	3.2	3.2	4.2	7.4	24.2	14.7	4.2	1.1	1.1	2.1	65.3	34.7	95
TOT	20	6	15	29	71	48	6	2	7	7	211	132	343
PCT	5.8	1.7	4.4	8.5	20.7	14.0	1.7	.6	2.0	2.0	61.5	38.5	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	2.0	3.0	2.0	9.9	23.8	59.4	101
06&09	6.0	2.4	2.4	11.9	14.3	63.1	84
12&15	4.7	.8	6.2	12.4	22.5	53.5	129
18&21	5.7	.9	2.8	9.4	16.0	65.1	106
TOT	19	7	15	46	82	251	420
PCT	4.5	1.7	3.6	11.0	19.5	59.8	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	3.9	10.4	19.5	39.0	41.6	77
06&09	17.2	21.9	31.3	32.8	35.9	64
12&15	3.0	11.9	33.7	29.7	36.6	101
18&21	3.2	10.5	24.2	42.1	33.7	95
TOT	20	44	92	121	124	337
PCT	5.9	13.1	27.3	35.9	36.8	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
45/49	.0	.0	.0	.0	.4	.0	.0	.4	2	.7
40/44	.0	.0	.0	.0	.0	.4	3.5	2.5	18	6.3
35/39	.0	.4	.0	.0	1.9	4.2	6.3	8.4	60	21.1
30/34	.0	.0	.0	.0	2.5	3.9	5.3	13.0	70	24.6
25/29	.0	.0	.4	.0	2.5	3.9	6.0	6.0	53	18.6
20/24	.0	.0	.4	.7	1.4	2.5	7.0	3.9	45	15.8
15/19	.0	.0	.0	.4	1.8	1.8	2.1	2.5	24	8.4
10/14	.0	.0	.0	.0	.0	.7	1.8	1.1	10	3.5
5/9	.0	.0	.0	.0	.4	.0	.0	.7	3	1.1
TOTAL	0	1	2	3	30	49	91	109	285	100.0
PCT	.0	.4	.7	1.1	10.5	17.2	31.9	38.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.4	.2	.2	.0	.0	.0	.0
.0	.7	.7	.4	1.8	2.4	.3	.1	.0	.0
1.6	2.9	3.6	1.5	3.0	7.3	.5	.4	.0	.4
2.8	3.6	1.0	1.8	4.3	3.9	2.9	2.8	.0	1.4
3.0	3.0	2.7	.0	.7	2.5	2.0	4.6	.0	.0
3.9	1.9	1.7	.3	.0	.4	3.1	4.6	.0	.0
2.9	.4	.4	.0	.0	.4	1.4	3.0	.0	.0
.0	.0	.0	.0	.0	.0	1.0	2.5	.0	.0
.0	.0	.0	.0	.0	.0	.5	.5	.0	.0
14.1	12.5	10.0	4.3	10.0	17.1	11.7	18.5	.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	46	45	41	31	15	6	6	29.4	101
06&09	49	48	42	30	14	3	3	28.6	85
12&15	52	46	42	29	13	9	0	28.1	128
18&21	49	46	41	28	14	1	1	28.2	103
TOT	52	46	41	29	14	6	0	28.5	417

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	12.0	18.7	34.7	34.7	84	75
06&09	.0	1.8	5.5	12.7	45.5	34.5	85	55
12&15	.0	6.6	8.8	19.8	33.0	31.9	83	91
18&21	.0	1.3	15.8	15.8	21.1	46.1	85	76
TOT	0	8	32	51	97	109	84	297

DECEMBER

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1931-1970

AREA 0001 BELLE ISLE STRAIT
51.0N 57.0W

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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	# FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	2	.0	.6
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.9	.0	4	.0	1.2
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.3	.0	3	.3	.6
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.3	.3	.0	4	.0	1.2
6	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	2	.0	.6
5	.0	.0	.0	.0	.0	.0	.0	.0	.6	1.2	1.2	.0	.0	10	.0	2.9
4	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.2	.0	.0	.0	5	.0	1.5
3	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.3	.0	.0	.0	7	.3	1.7
2	.0	.0	.0	.0	.0	.0	.0	.6	2.3	.6	.9	.0	.0	15	.6	3.8
1	.0	.0	.0	.0	.0	.0	.0	1.5	3.2	1.5	.0	.0	.0	21	2.0	4.1
0	.0	.0	.0	.0	.0	.0	.0	.6	2.3	1.5	.0	.0	.0	15	.3	4.1
-1	.0	.0	.0	.0	.0	.0	.3	2.3	1.2	.9	.3	.0	.0	17	.6	4.4
-2	.0	.0	.0	.0	.0	.0	.3	2.6	.9	.6	.0	.0	.0	15	.0	4.4
-3	.0	.0	.0	.0	.0	.0	.6	2.3	1.5	.0	.0	.0	.0	15	.3	4.1
-4	.0	.0	.0	.0	.0	.0	1.7	1.5	.3	.0	.0	.0	.0	12	.0	3.5
-5	.0	.0	.0	.0	.0	.3	1.2	2.0	1.7	.0	.0	.0	.0	18	.0	5.2
-6	.0	.0	.0	.0	.0	.3	2.6	1.5	.6	.9	.0	.0	.0	20	.3	5.5
-7/-8	.0	.0	.0	.0	.0	2.0	3.5	2.0	.3	.0	.0	.0	.0	27	.3	7.6
-9/-10	.0	.0	.0	.3	.3	2.9	2.9	.9	.0	.0	.0	.0	.0	25	.0	7.3
-11/-13	.0	.0	.0	.0	1.5	4.1	3.5	.9	.0	.0	.0	.0	.0	34	.0	9.9
-14/-16	.0	.0	.0	1.7	3.8	2.0	.3	.0	.0	.0	.0	.0	.0	27	.0	7.9
-17/-19	.0	.0	.3	2.6	2.3	.9	.0	.0	.0	.0	.0	.0	.0	21	.0	6.1
-20/-22	.0	.3	.9	1.5	1.2	.0	.3	.0	.0	.0	.0	.0	.0	14	.3	3.8
-23/-25	.0	.0	.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	1.2
-26/-30	.9	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.9	.9
TOTAL	3	2	7	23	32	43	59	66	59	33	11	6	1	343	21	322
PCT	.9	.6	2.0	6.7	9.3	12.5	17.2	18.7	17.2	9.6	3.2	1.7	.3	100.0	6.1	93.9

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	.0	.6	.0	.0	.0	.0	.6
1-2	.0	1.7	1.2	.0	.0	.0	2.9
3-4	.0	.0	1.6	.0	.0	.0	1.6
5-6	.0	.0	.6	.4	.0	.0	1.0
7	.0	.0	.9	1.4	.0	.0	2.3
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	.6	.0	.6
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
TOT PCT	.0	2.3	4.2	2.3	.6	.0	9.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.0	.1	.0	.0	.0	.7
1-2	.0	.6	1.7	.0	.0	.0	2.3
3-4	.0	.6	1.4	1.7	.0	.0	3.8
5-6	.0	.0	3.0	1.2	.0	.0	4.2
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
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	.6	1.2	6.5	3.5	.0	.0	11.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	1.0	.0	.0	.0	1.0
1-2	.0	2.3	.0	.0	.0	.0	2.3
3-4	.0	.4	2.6	.6	.0	.0	3.6
5-6	.0	.0	1.6	.0	.0	.0	1.6
7	.0	.0	.4	.0	.6	.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	.0	2.7	5.6	1.0	.6	.0	10.0

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	.0	.6	.0	.0	.0	.6
3-4	.0	.1	3.0	.6	.0	.0	3.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	3.9	.9	.0	.0	4.9

PERIOD: (OVER-ALL) 1963-1970 DECEMBER AREA 0001 BELLE ISLE STRAIT

TABLE 18 (CONT) 51.0N 57.0W

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	.6	.0	.0	.0	.0	.0	.6
1-2	.0	.6	.0	.0	.0	.0	.6
3-4	.0	.0	3.2	.0	.0	.0	3.2
5-6	.0	.0	2.3	1.0	.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	.4	.6	.0	.0	1.0
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	.6	.6	5.9	2.0	.0	.0	9.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.2	.1	.0	.0	.0	1.4
1-2	.0	1.3	.6	.0	.0	.0	1.9
3-4	.0	.0	3.6	.0	.0	.0	3.6
5-6	.0	.6	1.7	.9	.0	.0	3.2
7	.0	.0	.6	.6	.1	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.7	.6	.0	2.3
12	.0	.0	.0	.6	.0	.0	.6
13-16	.0	.0	.0	.7	.6	.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	.1	3.0	6.6	4.5	1.3	.0	15.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.6	.4	.0	.0	.0	1.4
1-2	.0	3.2	.6	.0	.0	.0	3.8
3-4	.0	1.2	1.2	1.0	.0	.0	3.3
5-6	.0	.0	1.2	.4	.0	.0	1.6
7	.0	.0	.6	.6	.4	.0	1.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.6	.0	.0	.6
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	.4	4.9	3.9	3.0	.4	.0	12.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.2	.6	.0	.0	.0	1.7	
1-2	.0	3.0	2.9	.0	.0	.0	5.9	
3-4	.0	1.7	5.3	1.9	.0	.0	9.0	
5-6	.0	.6	1.2	1.3	.0	.0	3.0	
7	.0	.0	.7	1.4	.0	.0	2.2	
8-9	.0	.0	.0	1.2	.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	.1	.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	6.5	10.7	5.9	.0	.0	23.1	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	5.2	3.5	2.3	.0	.0	.0	11.0	
1-2	.0	12.7	7.5	.0	.0	.0	20.2	
3-4	.0	4.0	22.0	5.8	.0	.0	31.8	
5-6	.0	1.2	11.6	5.2	.0	.0	17.9	
7	.0	.0	3.5	4.0	1.2	.0	8.7	
8-9	.0	.0	.0	1.7	.0	.0	1.7	
10-11	.0	.0	.6	3.9	.6	.0	4.6	
12	.0	.0	.0	1.2	.0	.0	1.2	
13-16	.0	.0	.0	1.2	1.2	.0	2.3	
17-19	.0	.0	.0	.6	.0	.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	5.2	21.4	47.4	24.1	2.9	.0	100.0	173

PERIOD: (OVER-ALL) 1950-1970 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	.8	11.8	19.8	11.0	5.5	.4	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	120	4
6-7	.0	.8	4.6	5.1	5.5	1.7	1.7	1.3	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	50	4
8-9	.0	.0	1.7	3.0	2.1	.8	3.4	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	7
10-11	.0	.0	.0	.0	.4	.4	.0	.4	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	12
12-13	.0	.0	.8	1.3	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	4.2	1.3	1.7	1.3	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	3
TOTAL	12	33	68	51	35	9	13	7	7	1	0	0	1	0	0	0	0	0	0	237	5
PCT	5.1	13.9	28.7	21.5	14.8	3.8	5.5	3.0	3.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1886-1971
(OVER-ALL) 1860-1971

AREA 0001 BELLE ISLE STRAIT
50.7N 57.2W

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	5.3	1.3	9.1	*	12.2	.0	.2	21.3	2.0	*	7.5	.2	.3		.0	68.7
NE	8.4	2.4	5.0	.0	13.6	.2	.1	28.1	1.9	.1	12.9	.3	.2		.0	56.5
E	12.8	1.7	4.2	.7	10.3	.5	.3	29.7	2.1	.1	11.5	.2	.3		.0	56.2
SE	15.6	3.1	3.1	.5	5.2	.0	.7	26.9	2.2	.1	13.2	.2	1.5		.1	56.0
S	9.3	2.5	2.1	.3	8.7	.0	*	22.4	2.2	.3	13.3	.6	1.0		.0	60.4
SW	3.7	.8	1.5	.0	12.9	.0	.2	18.9	1.9	.2	12.2	.4	.9		.2	65.4
W	2.3	.6	.5	.1	12.6	1.0	*	17.1	1.5	.2	6.9	*	.4		.5	73.4
NW	2.7	2.0	1.2	.3	14.5	.2	*	20.8	1.6	.0	6.2	.4	*		.3	70.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	3.7	.5	1.5	.0	6.1	.0	.0	11.8	1.2	.0	17.1	.9	1.5		.0	67.4
TOT PCT	5.9	1.4	2.3	.2	11.6	.3	.1	21.3	1.8	.1	10.6	.4	.7		.1	65.0
TOT OBS: 12357																

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	6.8	1.5	1.8	.6	14.6	.0	.1	25.0	1.5	.2	9.2	.2	.5		.4	63.1
06&09	7.5	1.2	2.8	.0	7.7	.6	*	19.2	1.4	.3	9.9	.1	.2		.0	68.9
12&15	5.4	1.0	2.7	.2	10.6	.1	.1	19.8	1.8	.1	13.7	.5	.8		*	63.3
18&21	4.9	1.7	1.9	*	11.4	.4	.2	19.9	2.1	*	9.3	.6	.9		*	67.1
TOT PCT	5.8	1.4	2.3	.2	11.7	.3	.1	21.4	1.8	.1	10.8	.4	.6		.1	64.8
TOT OBS: 13057																

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	3.4	4.9	2.9	.7	.1		12.8	16.3	12.7	11.6	12.5	9.8	12.9	15.3	11.1	12.1
NE	.5	3.0	4.2	2.4	1.1	.1		11.3	17.9	11.6	12.2	15.3	7.4	11.6	9.8	11.5	10.3
E	.4	2.8	2.5	.9	.4	*		7.1	14.0	7.4	9.1	6.7	4.2	8.2	5.6	5.6	6.7
SE	.3	2.4	2.1	.6	.2	*		5.7	13.7	5.0	4.0	5.1	3.3	5.8	5.7	6.6	5.7
S	.7	4.3	5.1	1.6	.3	.0		12.0	14.1	12.2	11.8	13.7	7.4	11.0	11.5	13.5	11.9
SW	.9	6.2	9.4	4.3	1.2	*		21.9	16.9	24.0	22.5	17.7	16.9	19.3	23.0	22.2	25.8
W	.5	4.5	6.2	2.2	.8	.1		14.3	15.3	12.9	14.7	11.7	19.0	14.4	17.0	15.0	14.4
NW	.4	3.4	5.0	2.7	.9	.1		12.4	16.0	12.1	12.2	15.2	11.8	13.5	10.5	12.3	10.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0	2.3	2.0	2.0	3.5	3.3	1.6	2.2	2.9
TOT OBS							13203		15.5	2627	996	1568	903	2774	1142	2076	1117
TOT PCT	6.9	30.0	39.4	17.6	5.7	.5		100.0		100.0	100.0	100.0	83.3	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	4.9	3.7	1.9	.4		12.8	16.3	12.5	12.5	13.9	11.4
NE	1.8	3.9	3.5	1.8	.3		11.3	17.9	11.6	14.3	10.8	11.1
E	1.8	2.8	1.7	.7	.1		7.1	14.0	8.0	6.4	7.4	6.0
SE	1.3	3.0	.8	.5	.1		5.7	13.7	4.8	4.8	6.0	6.4
S	2.2	5.9	3.2	.7	*		12.8	14.1	11.9	12.5	11.1	12.9
SW	3.1	9.3	6.8	2.4	.3		21.9	16.9	23.7	18.1	20.4	23.6
W	2.0	6.9	3.6	1.4	.4		14.3	15.3	13.5	13.8	15.1	14.4
NW	1.3	5.2	3.7	1.8	.3		12.4	16.0	11.8	15.3	12.6	11.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	2.3	2.3	2.7	2.4
TOT OBS						13203		15.5	3623	2471	3916	3193
TOT PCT	18.0	41.9	27.1	11.1	1.9		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1886-1971
(OVER-ALL) 1860-1971

AREA 0001 BELLE ISLE STRAIT
50.7N 57.2W

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	29.8	39.7	17.2	5.9	.6	13.7	100.0	3623
06&09	2.3	4.1	33.7	37.4	19.9	2.1	.5	14.6	100.0	2471
12&15	2.7	5.1	30.4	39.4	16.7	5.3	.4	15.2	100.0	3916
18&21	2.4	3.6	28.3	39.2	19.6	6.6	.3	16.2	100.0	3193
TOT								15.5		13203
PCT	2.4	4.3	30.0	39.4	17.6	5.7	.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	2.4	1.0	2.6	6.3		5.9
NE	1.8	.6	2.2	7.2		6.4
E	.5	.5	1.2	4.5		6.8
SE	.5	.5	1.2	3.6		6.7
S	2.1	.9	2.3	6.9		6.2
SW	5.4	2.8	5.2	9.4		5.5
W	4.5	1.5	4.0	3.8		4.8
NW	2.6	1.4	3.1	5.0		5.5
VAR	.0	.0	.0	.0		.0
CALM	1.0	.1	.6	1.0		5.4
TOT OBS					7320	5.7
TOT PCT	20.8	9.3	22.3	47.7	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	1.0	.2	.7	1.0	2.2	1.5	.4	.2	.1	.2	4.8	
NE	1.4	.2	.6	1.6	1.7	1.7	.3	.2	.1	.3	9.7	
E	.4	.1	.4	.9	1.2	.9	.3	*	.2	.3	1.9	
SE	.5	.1	.2	.4	1.0	.8	.2	.1	.2	.1	2.0	
S	1.2	.1	.4	.9	2.0	1.4	.5	.2	.2	.4	4.7	
SW	1.5	.1	.8	2.1	3.3	2.5	.6	.2	.3	.5	10.9	
W	.8	.1	.4	.9	2.0	1.1	.4	.1	.3	.2	7.6	
NW	.6	.3	.6	1.2	2.0	1.4	.5	*	.2	.2	5.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	*	.1	.3	.2	.2	.1	*	.1	.1	1.3	
TOT OBS												7320
TOT PCT	7.7	1.3	4.1	9.3	15.5	11.6	3.4	1.0	1.7	2.3	42.0	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	2.0	3.6	3.9	3.9	3.9	4.0	4.0	4.0
= OR >5000	2.7	4.6	4.9	4.9	5.0	5.0	5.0	5.0
= OR >3500	4.4	7.3	8.2	8.2	8.3	8.4	8.4	8.4
= OR >2000	9.4	16.5	19.1	19.5	19.9	20.0	20.1	20.1
= OR >1000	15.9	28.0	32.8	33.9	34.9	35.3	35.5	35.5
= OR >600	18.5	33.7	40.9	42.9	44.1	44.6	44.9	44.9
= OR >300	18.9	34.9	43.4	46.4	47.5	48.6	49.0	49.0
= OR >150	18.9	35.2	43.9	47.2	48.9	49.8	50.2	50.2
= OR > 0	19.0	35.5	45.0	48.9	51.8	54.5	57.4	58.0

TOTAL NUMBER OF OBS: 7411 PCT FREQ NH <5/8: 2.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
13.7	9.6	8.6	5.6	3.8	4.9	6.6	7.8	33.1	6.9	8006

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PERIOD: (PRIMARY) 1886-1971
(OVER-ALL) 1860-1971

AREA 0001 BELLE ISLE STRAIT
50.7N 57.2W

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	.5	.6	.2	.2	.2	.3	.2	.4	.0	*	2.7	
<1/2	NO PCP	.4	.5	.3	.3	1.1	1.4	.5	.2	.0	.3	5.1	
	TOT %	.9	1.2	.5	.5	1.2	1.7	.7	.6	.0	.3	7.7	
	PCP	.3	.5	.3	.2	.2	.3	.5	.3	.0	.0	2.6	
1/2<1	NO PCP	.2	.2	.2	.1	.2	.7	.2	.2	.0	*	2.1	
	TOT %	.5	.7	.5	.3	.4	.9	.7	.5	.0	*	4.7	
	PCP	.3	.5	.2	.1	.4	.6	.3	.4	.0	*	2.9	
1<2	NO PCP	*	.2	.1	.1	.2	.2	.1	*	.0	*	.9	
	TOT %	.4	.6	.3	.2	.6	.8	.4	.5	.0	.1	3.7	
	PCP	.6	.5	.8	.4	1.0	1.0	.6	.6	.0	.3	5.7	
2<5	NO PCP	.5	.6	.3	.2	.7	1.3	.3	.5	.0	.1	4.4	
	TOT %	1.1	1.1	1.1	.6	1.7	2.3	.8	1.1	.0	.4	10.1	
	PCP	.8	1.0	.6	.5	.6	1.4	.8	.8	.0	*	6.5	
5<10	NO PCP	3.9	3.0	2.0	1.8	3.1	6.3	3.9	3.1	.0	.4	27.4	
	TOT %	4.7	4.0	2.6	2.3	3.7	7.6	4.7	3.9	.0	.4	33.9	
	PCP	.3	.1	.1	.1	.1	.1	.1	.1	.0	.1	1.1	
10+	NO PCP	4.7	3.7	1.9	1.7	4.5	8.6	6.9	5.5	.0	1.3	38.8	
	TOT %	4.9	3.8	1.9	1.9	4.7	8.8	7.0	5.5	.0	1.4	39.8	
	TOT OBS												12351
	TOT PCT	12.5	11.4	7.0	5.8	12.3	22.1	14.3	12.1	.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
	0-3	.1	.1	.1	.1	.1	.2	.1	.1	.0	.3	1.0	
<1/2	4-10	.2	.3	.3	.3	.5	.6	.2	.1	.0		2.7	
	11-21	.2	.3	.1	.1	.5	.6	.1	.1	.0		2.0	
	22+	.4	.4	.1	.1	.1	.2	.3	.4	.0		2.0	
	TOT %	.9	1.1	.5	.5	1.2	1.7	.7	.6	.0	.3	7.7	
	0-3	*	*	*	*	*	.1	*	*	.0	*	.3	
1/2<1	4-10	.1	.1	.1	.1	.2	.3	.2	.1	.0		1.2	
	11-21	.3	.3	.3	.1	.2	.3	.3	.2	.0		2.0	
	22+	.1	.2	.1	.1	.1	.2	.2	.1	.0		1.0	
	TOT %	.5	.7	.5	.3	.4	.9	.7	.5	.0	*	4.6	
	0-3	*	*	*	.0	*	.0	.0	.0	.0	.1	.1	
1<2	4-10	*	.1	*	*	.2	.2	*	*	.0		.6	
	11-21	.2	.2	.1	.1	.2	.3	.2	.1	.0		1.5	
	22+	.1	.4	.1	*	.2	.4	.1	.3	.0		1.6	
	TOT %	.4	.6	.3	.2	.6	.9	.4	.5	.0	.1	3.8	
	0-3	*	*	*	*	.1	.1	*	.1	.0	.4	.7	
2<5	4-10	.3	.2	.5	.2	.5	.5	.3	.2	.0		2.6	
	11-21	.3	.4	.3	.2	.6	1.0	.3	.4	.0		3.4	
	22+	.5	.6	.3	.2	.4	.7	.3	.5	.0		3.5	
	TOT %	1.1	1.1	1.0	.6	1.6	2.3	.9	1.1	.0	.4	10.1	
	0-3	.3	.2	.2	.1	.1	.3	.2	.1	.0	.4	1.8	
5<10	4-10	1.1	1.0	.9	.9	1.2	2.0	1.4	1.1	.0		9.7	
	11-21	1.8	1.6	.8	.9	1.7	3.2	2.0	1.6	.0		13.6	
	22+	1.4	1.2	.7	.4	.6	2.1	1.0	1.1	.0		8.5	
	TOT %	4.6	3.9	2.6	2.3	3.6	7.6	4.7	3.9	.0	.4	33.5	
	0-3	.3	.2	.1	.1	.3	.2	.2	.1	.0	1.4	2.9	
10+	4-10	1.5	1.3	.9	.9	1.7	2.6	2.3	1.8	.0		13.1	
	11-21	2.0	1.4	.8	.8	2.0	4.1	3.3	2.5	.0		17.0	
	22+	1.2	.9	.2	.1	.7	1.9	1.3	1.1	.0		7.2	
	TOT %	5.0	3.8	2.0	1.9	4.7	8.8	7.1	5.6	.0	1.4	40.2	
	TOT OBS												12726
	TOT PCT	12.6	11.4	6.9	5.8	12.2	22.1	14.4	12.2	.0	2.5	100.0	

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PERIOD: (PRIMARY) 1886-1971
(OVER-ALL) 1860-1971

AREA 0001 BELLE ISLE STRAIT
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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	9.2	.6	4.2	7.0	13.5	12.8	2.5	1.0	2.6	2.3	55.6	44.4	1838
06&09	15.6	.3	2.1	7.2	11.7	11.3	2.5	1.0	4.9	1.5	58.1	41.9	1475
12&15	6.0	2.1	4.0	10.5	16.7	11.7	3.3	.8	1.1	2.7	58.4	41.6	2154
18&21	6.0	1.2	4.2	10.1	15.4	11.1	4.0	1.2	1.3	2.3	56.9	43.1	2194
TOT													7661
PCT	7.6	1.2	4.0	9.2	15.2	11.5	3.3	1.0	1.7	2.3	56.9	43.1	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	9.6	5.1	3.1	8.8	37.4	36.0	3685
06&09	6.9	3.4	2.0	10.2	26.7	50.8	2512
12&15	8.5	4.8	4.6	11.3	34.7	36.2	3993
18&21	6.1	4.6	3.9	10.4	31.0	44.0	3245
TOT							13435
PCT	8.0	4.7	3.8	10.0	33.7	39.7	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 3+	TOTAL OBS
00&03	9.7	17.7	31.4	28.2	40.4	1759
06&09	16.0	18.9	31.5	29.0	39.5	1417
12&15	6.1	14.8	33.7	27.6	38.7	2095
18&21	6.1	14.1	31.1	27.8	41.1	2145
TOT						7411
PCT	7.8	15.5	31.9	28.0	40.2	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
75/79	.0	.0	*	*	.0	.0	.0	.0		*
70/74	.0	.0	*	*	*	*	.0	.0		.1
65/69	.0	.0	*	*	*	.1	.2	.1		.5
60/64	.0	*	*	*	.1	.6	1.1	.8		2.6
55/59	.0	.0	.0	.1	.3	1.4	3.2	2.9		7.9
50/54	.0	*	*	.1	.6	1.5	4.0	4.1		10.3
45/49	.0	*	*	.1	.7	2.0	3.2	4.9		10.8
40/44	.0	*	*	.2	1.0	1.9	4.0	5.1		12.3
35/39	.0	*	*	.1	.9	3.1	4.3	5.7		14.2
30/34	.0	.0	*	.2	1.0	2.0	4.2	9.3		16.7
25/29	.0	.0	*	.2	.6	1.8	3.4	3.3		9.3
20/24	.0	.0	.2	.2	.5	1.1	3.0	2.7		7.6
15/19	.0	.0	.0	*	.2	.9	1.9	.9		3.9
10/14	.0	.0	.0	.1	.2	.7	.9	.5		2.5
5/9	.0	.0	.0	.0	*	.2	.3	.2		.8
0/4	.0	.0	.0	.0	.0	.0	.0	.1		.1
-1/-4	.0	.0	.0	.0	.0	.0	.2	.0		.2
TOTAL									8004	100.0
PCT	.0	.1	.4	1.5	6.3	17.1	33.9	40.8		

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	.0	.0	*	*	*	*	.0	.0
.0	.1	*	*	.1	.2	.1	*	.0	*
.1	.1	.1	.1	.6	1.1	.3	.1	.0	.1
.4	.6	.4	.5	1.7	3.0	.8	.3	.0	.2
.6	1.0	.6	.7	1.7	3.5	1.2	.7	.0	.3
.9	1.3	.7	.8	1.7	2.9	1.3	.8	.0	.3
1.4	1.5	1.0	1.0	1.6	2.9	1.6	1.0	.0	.3
1.9	1.6	1.7	1.0	2.0	2.9	1.4	1.1	.0	.4
2.9	2.6	1.2	1.0	2.0	2.4	2.0	2.2	.0	.5
1.0	1.4	.8	.3	.8	1.8	1.3	1.7	.0	.2
1.6	.5	.6	.1	.2	1.5	1.5	1.4	.0	.2
.8	.2	.3	.0	.2	.7	.8	1.0	.0	.0
.5	.4	.0	.1	.1	.0	.8	.6	.0	.1
.1	.1	.1	.1	.0	.2	.1	.1	.0	.0
.0	.0	.0	.0	.0	.0	.1	*	.0	.0
.0	.0	.0	.0	.0	.0	.1	.1	.0	.0
12.1	11.5	7.5	5.9	12.5	23.2	13.5	11.1	.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	74	52	48	38	27	24	5	46.6	3821
06&09	70	49	47	38	29	25	3	46.3	2584
12&15	75	54	49	38	26	22	-7	46.3	4114
18&21	78	55	50	39	29	23	-1	47.5	3287
TOT	78	55	49	38	27	22	-7	46.7	13806

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	1.5	6.1	14.8	34.9	42.7	86	2136
06&09	.0	1.3	3.9	13.7	29.1	52.0	88	1619
12&15	.0	2.0	5.4	16.4	34.8	41.3	86	2305
18&21	.0	2.7	8.8	21.1	31.2	36.2	83	2170
TOT	0	187	523	1387	2778	3355	86	8230

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PERIOD: (PRIMARY) 1886-1971
(OVER-ALL) 1860-1971

TABLE 17

AREA 0001 BELLE ISLE STRAIT
50.7N 57.2W

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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
>30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	1	.0	*
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	.0	.0	.0	6	*	*
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	.0	.0	*	12	*	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.1	*	*	*	*	32	*	.2
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	*	*	*	*	.0	53	*	.3
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.2	.2	.1	*	*	*	.0	138	.1	.6
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.5	.3	.4	.3	.1	.1	*	*	.0	303	.3	1.8
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.5	.6	.4	.4	.3	.1	.1	*	.0	.0	392	.3	2.9
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	.6	.6	.9	.6	.4	.2	.1	*	.0	.0	650	.8	3.5
6	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.2	.6	.6	.5	.4	.3	.1	*	.0	.0	.0	477	.5	3.5
5	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	.6	.6	.7	.6	.4	.1	*	*	.0	.0	702	1.1	4.2
4	.0	.0	.0	.0	.0	.0	.0	*	1.7	.8	.6	.9	.9	.6	.5	.1	*	*	.0	.0	841	1.3	4.9
3	.0	.0	.0	.0	.0	.0	.0	.7	2.2	1.0	1.0	.8	1.0	.8	.6	.1	*	*	.0	.0	1033	1.5	6.8
2	.0	.0	.0	.0	.0	.0	.0	1.5	1.9	1.2	1.0	1.0	1.0	.9	.7	.1	*	*	.0	.0	1115	1.4	7.5
1	.0	.0	.0	.0	.0	.0	.0	2.0	1.0	1.2	.9	1.0	.9	.8	.4	.1	*	*	.0	.0	1121	1.5	6.8
0	.0	.0	.0	.0	.0	.0	.0	1.3	1.2	1.0	.9	.8	.7	.7	.4	*	*	*	.0	.0	960	.8	6.2
-1	.0	.0	.0	.0	.0	.0	.4	1.5	.9	.6	.5	.3	.5	.5	.2	.1	*	*	.0	.0	714	.5	5.2
-2	.0	.0	.0	.0	.0	.0	.6	.8	.4	.5	.4	.3	.3	.2	.1	*	.0	.0	.0	.0	502	.4	3.4
-3	.0	.0	.0	.0	.0	.0	1.2	1.2	.6	.3	.4	.3	.3	.2	.1	*	.0	.0	.0	.0	459	.2	4.4
-4	.1	.0	.0	.0	.0	.0	.7	.4	.4	.3	.3	.2	.2	.2	*	.0	.0	.0	.0	.0	346	.1	2.6
-5	.0	.0	.0	.0	.0	.2	1.0	1.2	.5	.3	.2	.2	.1	.1	*	.0	.0	.0	.0	.0	294	.1	3.5
-6	.0	.0	.0	.0	.0	.7	.6	.6	.2	.2	.2	.1	.1	*	*	*	.0	.0	.0	.0	226	*	2.8
-7/-8	.0	.0	.0	.0	.2	1.5	.6	.7	.4	.3	.2	.1	.1	*	*	.0	.0	.0	.0	.0	304	.1	4.1
-9/-10	.0	.0	.0	*	1.2	1.0	.7	.6	.2	.1	.1	.1	*	*	*	.0	.0	.0	.0	.0	222	*	3.9
-11/-13	.0	.0	.0	.0	1.7	.7	.6	.2	.1	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	133	*	3.3
-14/-16	.0	.0	.0	1.2	1.0	.7	*	*	*	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	79	.0	3.0
-17/-19	.0	.0	.4	.5	.3	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	.0	1.4
-20/-22	.0	.2	.7	.4	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	*	1.3
-23/-25	.0	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	.4
-26/-30	.1	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	.2	.1
<-30	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL																					11197		
PCT	.2	.6	1.3	2.2	4.5	4.9	6.4	12.5	13.1	12.1	9.3	9.3	9.2	7.5	4.7	1.6	.4	.1	*	*	100.0	11.1	88.9

PERIOD: (OVER-ALL) 1963-1971

TABLE

PCT FREQ OF WIND SPEED (KT ECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.9	.2	.0	.0	.0	
1-2	.1	1.5	1.5	.0	.0	.0	
3-4	.0	.7	1.4	.6	.0	.0	
5-6	.0	.1	1.0	.8	*	.0	
7	.0	.0	.4	.5	.2	.0	1..
8-9	.0	.0	.0	.7	.1	.0	.7
10-11	.0	*	*	.1	*	.0	.1
12	.0	.0	*	.4	*	*	.5
13-16	.0	.0	.0	.3	.1	.0	.4
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	.7	3.2	4.4	3.3	.5	*	12.2

	..	4-10	11-21	NE 22-33	34-47	48+	PCT
	.2	.9	.1	.0	.0	.0	1.2
	.1	1.2	1.4	.0	.0	.0	2.7
	.0	.4	2.0	.6	.0	.0	3.0
	.0	.2	.9	1.8	.5	.0	3.5
	.0	*	.9	1.2	.4	.0	2.3
	.0	.0	*	1.0	*	.0	1.1
	.0	*	.0	.2	.0	.0	.2
	.0	.0	*	*	.1	.0	.1
	.0	.0	.0	*	*	.0	*
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	*	.0	*
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.2	2.8	5.3	4.8	1.1	.0	14.2

F

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.6	.3	.0	.0	.0	.9
1-2	.0	1.4	.7	.0	.0	.0	2.1
3-4	.0	.2	.7	.2	.0	.0	1.0
5-6	.0	.1	.3	.2	*	.0	.6
7	.0	.0	.3	.2	.4	.0	.9
8-9	.0	.0	*	.3	*	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.1	.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	*	2.2	2.3	1.0	.6	.0	6.2

	1-3	4-10	11-21	SE 22-33	34-47	48+	PCT
	.1	.7	.1	.0	.0	.0	.8
	.0	.9	.7	.0	.0	.0	1.6
	*	.2	.9	.1	.0	.0	1.3
	.0	*	.2	.1	.0	.0	.3
	.0	.0	.1	.1	.0	.0	.2
	.0	.0	.0	*	.0	.0	*
	.0	.0	*	*	.2	.0	.2
	.0	.0	.0	*	*	.0	*
	.0	.0	.0	*	*	.0	*
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	*	*	*
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0
	.1	1.8	2.0	.4	.2	*	4.5

PERIOD: (OVER-ALL) 1963-1971 ANNUAL AREA 0001 BELLE ISLE STRAIT

TABLE 18 (CONT) 50.7N 57.2W

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	2.1	.3	.0	.0	.0	2.6
1-2	*	2.4	.9	.0	.0	.0	3.4
3-4	.0	.3	1.6	.3	.0	.0	2.2
5-6	.0	.1	1.1	.4	*	.0	1.6
7	.0	.0	.6	.4	.0	.0	1.0
8-9	.0	.0	*	.1	*	.0	.1
10-11	.0	.0	*	*	.1	.0	.2
12	.0	.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	.2	4.9	4.7	1.3	.2	.0	11.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.4	.4	.0	.0	.0	3.1
1-2	.1	2.9	1.7	.0	.0	.0	4.7
3-4	.2	.8	4.7	.8	.0	.0	6.4
5-6	.0	.2	1.9	1.0	.7	.0	3.7
7	.0	.0	1.2	1.4	.1	.0	2.7
8-9	.0	*	.2	.8	.3	.0	1.3
10-11	.0	.0	*	.3	.6	*	1.0
12	.0	.0	.0	.1	.8	.0	1.0
13-16	.0	.0	*	.1	.1	*	.2
17-19	.0	.0	.0	*	.0	.0	*
20-22	.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	.6	6.3	10.3	4.5	2.6	*	24.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.2	.0	.0	.0	1.0
1-2	.1	1.6	.7	.0	.0	.0	2.4
3-4	*	.7	1.8	.7	.0	.0	3.2
5-6	.0	.1	1.3	.5	.3	.0	2.2
7	.0	.0	.5	.6	.1	.0	1.2
8-9	.0	.0	.3	.5	.1	.0	.8
10-11	.0	.0	*	.1	.3	.0	.4
12	.0	.0	.0	*	*	.0	*
13-16	.0	.0	*	.1	.1	*	.2
17-19	.0	.0	.0	.0	.2	.2	.4
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	.2	3.2	4.8	2.4	.9	.2	11.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.4	.3	.0	.0	.0	.9	
1-2	*	1.2	1.4	.0	.0	.0	2.6	
3-4	.0	.4	1.8	.4	.0	.0	2.6	
5-6	.0	.1	.7	.8	.1	.0	1.7	
7	.0	.0	.6	1.0	.1	.0	1.6	
8-9	.0	.0	.0	.6	*	.0	.6	
10-11	.0	.0	.0	.1	*	.0	.2	
12	.0	*	*	.1	.0	.0	.1	
13-16	.0	.0	.0	.9	.2	.0	1.1	
17-19	.0	.0	.0	.2	.0	.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	2.1	4.9	4.0	.4	.0	11.6	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	6.2	8.8	1.9	.0	.0	.0	16.9	
1-2	.6	13.1	8.9	.0	.0	.0	22.6	
3-4	.2	3.7	14.8	3.4	.0	.0	22.1	
5-6	.0	.8	7.3	5.4	1.7	.0	15.2	
7	.0	*	4.5	5.3	1.3	.0	11.0	
8-9	*	*	.6	4.1	.5	.0	5.1	
10-11	.0	*	.1	.9	1.3	*	2.3	
12	.0	*	*	.9	1.2	*	2.1	
13-16	.0	.0	.1	1.3	.5	*	2.0	
17-19	.0	.0	.0	.2	*	.2	.4	
20-22	.0	.0	.0	.2	*	*	.2	
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	
								3235
TOT PCT	7.0	26.5	38.2	21.6	6.5	.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	3.9	14.6	15.9	7.0	5.2	2.5	.8	.7	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2819	3
6-7	*	.6	4.0	6.8	9.0	2.0	1.2	1.3	.6	.2	.2	*	*	.0	.0	.0	.0	.0	.0	1043	6
8-9	*	.2	.8	1.3	1.8	.7	.6	.2	.9	.4	.2	.0	*	.0	.0	.0	.0	.0	.0	342	7
10-11	.0	.3	.5	.2	.6	.5	.2	.1	.9	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	114	7
12-13	.0	.0	.7	.4	*	*	.2	*	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	7
>13	.0	.0	.0	*	.1	*	*	*	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	21	11
INDET	9.2	2.7	2.3	.7	1.0	.2	.3	*	.3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	796	7
TOTAL PCT	13.2	18.5	24.1	16.4	11.8	6.0	3.4	2.3	3.0	.6	.6	*	.1	.0	.0	.0	.0	.0	.0	5184 100.0	4

PERIOD: (PRIMARY) 1886-1971
(OVER-ALL) 1860-1971

AREA 0001 BELLE ISLE STRAIT
50.7N 57.2W

TABLE 20

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

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.2	*	.0	.0	.0	7	.1
65/66	.0	.0	.0	.0	.0	.0	.0	.6	*	.0	.0	.0	17	.1
63/64	.0	.0	.0	.0	.0	.0	.1	2.0	*	.0	.0	.0	56	.5
61/62	.0	.0	.0	.0	.0	.1	.5	3.3	.3	.1	.0	.0	105	.9
59/60	.0	.0	.0	.0	.0	.1	1.2	6.8	1.4	.1	.0	.0	237	2.0
57/58	.0	.0	.0	.0	.0	.1	3.6	11.8	4.3	.1	.0	.0	485	4.0
55/56	.0	.0	.0	.0	.0	.0	9.0	14.5	9.7	1.2	.0	.0	826	6.9
53/54	.0	.0	.0	.0	.0	.5	12.0	12.9	10.6	1.8	.0	.0	888	7.4
51/52	.0	.0	.0	.0	.0	1.6	12.2	8.9	12.8	4.4	.0	.0	911	7.6
49/50	.0	.0	.0	.0	.0	3.8	13.0	11.5	13.9	5.8	.1	.0	1073	8.9
47/48	.0	.0	.0	.0	.9	7.1	12.1	9.7	12.8	11.1	1.1	.3	1131	9.4
45/46	.0	.0	.0	.0	.9	13.3	11.1	7.9	12.4	12.4	5.0	.0	1178	9.8
43/44	.0	.0	.0	.0	.9	16.5	9.4	5.6	9.3	11.9	7.4	1.1	1056	8.8
41/42	.8	.0	2.9	.8	4.4	13.7	7.2	2.5	7.0	12.9	12.3	3.1	928	7.7
39/40	.8	3.3	.0	3.0	5.3	14.0	4.0	1.3	3.5	17.2	14.6	9.9	883	7.3
37/38	4.7	6.7	5.9	3.1	9.7	15.1	2.3	.4	1.2	13.7	17.5	13.8	768	6.4
35/36	14.8	6.7	2.9	8.4	22.1	8.3	1.3	*	.5	5.2	20.8	15.5	546	4.5
33/34	14.1	16.7	10.3	14.4	8.8	4.7	.9	*	.1	2.1	14.9	23.4	403	3.4
31/32	32.0	20.0	22.1	31.8	33.6	1.0	*	*	*	*	4.7	21.2	282	2.3
29/30	32.0	46.7	52.9	38.6	13.3	.0	.0	.0	.0	.0	1.0	10.7	219	1.8
27/28	.8	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.5	.6	10	.1
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1	*
TOTAL	128	60	68	132	113	977	2181	2544	2436	2052	965	354	12010	100.0
MEAN	32.0	31.7	31.2	32.8	35.0	41.5	48.4	52.2	48.8	42.9	37.8	34.5	39.0	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1011	1005	1008	1009	1012	1008	1012	1009	1010	196
FEB	1004	1001	1011	1010	1009	1003	1007	1003	1005	104
MAR	1009	1008	1017		1010	1006	1008	1004	1008	155
APR	1011	1007	1012		1011	1011	1011	1010	1011	303
MAY	1013	1015	1015	1013	1013	1015	1013	1015	1013	125
JUN	1010	1010	1010	1009	1010	1012	1010	1010	1010	903
JUL	1012	1011	1012	1012	1012	1012	1012	1010	1012	1835
AUG	1011	1012	1010	1010	1011	1012	1011	1012	1011	1807
SEP	1013	1014	1013	1013	1014	1012	1013	1012	1013	1884
OCT	1012	1012	1012	1011	1011	1013	1010	1011	1011	1776
NOV	1013	1015	1013	1016	1014	1018	1012	1016	1014	941
DEC	1014	1016	1013	1017	1013	1018	1012	1013	1014	416
ANN	1011	1011	1012	1012	1012	1012	1011	1010	1012	10445
OBS	2158	559	1565	476	2333	635	2065	654		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	976	986	994	1003	1010	1018	1027	1034	1040
FEB	976	976	984	996	1007	1014	1025	1034	1036
MAR	959	960	983	998	1010	1019	1032	1035	1036
APR	981	982	993	1004	1012	1018	1025	1028	1034
MAY	1001	1001	1002	1007	1013	1019	1024	1025	1030
JUN	986	993	997	1005	1011	1016	1022	1025	1030
JUL	989	995	1000	1007	1012	1016	1022	1025	1029
AUG	978	990	997	1006	1011	1016	1022	1025	1032
SEP	985	990	998	1007	1014	1020	1026	1029	1034
OCT	971	982	993	1005	1012	1019	1026	1029	1039
NOV	969	982	992	1006	1013	1022	1033	1038	1046
DEC	972	981	993	1007	1016	1021	1032	1035	1040

JANUARY

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1946-1972

AREA 0002 OSV BRAVO
56.5N 51.1W

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	4.3	1.5	.6	.0	37.7	.1	1.2	43.6	7.7	.2	.4	.0	.7	.0		47.5
NE	12.4	3.6	1.2	.0	24.7	.2	.4	39.8	6.9	.0	2.5	.0	.0	1.3		49.6
E	18.4	2.3	2.0	.0	17.8	.0	.4	38.8	5.0	.1	3.8	.0	.2	.2		52.0
SE	24.2	4.7	2.5	.0	28.4	.3	.3	55.6	3.8	.1	1.7	.3	.0	.0		38.5
S	12.8	1.9	2.4	.2	35.5	.2	.1	49.8	6.2	.0	.8	.2	.0	.2		42.8
SW	2.5	1.2	.4	.0	54.2	.3	.2	57.8	6.9	.0	.5	.0	.1	*		34.6
W	1.2	.7	.2	.0	60.6	.1	.3	62.5	6.9	.0	.1	.0	.2	.1		30.2
NW	2.5	.4	.2	.0	56.2	.2	.8	58.9	7.6	.1	.1	.0	.4	.1		32.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	3.4	.0	10.3	.0	24.1	.0	.0	37.9	3.4	.0	.0	.0	.0	.0		58.6
TOT PCT	7.3	1.6	.9	*	43.7	.2	.5	62.4	6.7	.1	1.0	*	.3	.2		39.3
TOT OBS:	5881															

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	7.7	1.5	.9	.0	44.8	.1	.3	53.3	7.4	.0	.3	.0	.2	.1		38.6
06&09	8.7	1.4	.8	.0	43.1	.3	.3	52.9	5.1	.1	.7	.0	.1	.3		40.7
12&15	5.7	1.6	.9	.0	40.5	.1	.6	48.0	7.4	.1	1.7	.1	.3	.1		42.4
18&21	7.0	2.0	1.0	.1	46.5	.1	.7	55.4	6.8	.1	1.2	.1	.3	.3		35.7
TOT PCT	7.3	1.6	.9	*	43.7	.2	.5	62.4	6.7	.1	1.0	*	.3	.2		39.3
TOT OBS:	5886															

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	4.1	4.5	1.8	.3		12.4	22.8	11.5	11.1	11.3	13.0	12.8	13.5	12.8	12.9
NE	.1	1.1	3.3	4.1	1.8	.4		10.7	24.3	11.7	10.7	10.8	11.3	11.3	9.8	9.8	10.2
E	.1	.8	2.7	4.5	2.1	.4		10.7	26.0	10.2	10.5	10.4	10.2	11.1	11.6	10.5	11.3
SE	.1	.7	1.7	2.3	.9	.3		6.1	24.6	6.6	6.5	6.4	5.7	5.9	5.6	6.0	6.1
S	.1	1.3	2.5	2.1	1.0	.3		7.2	21.9	6.7	8.1	7.5	6.6	6.7	7.5	8.2	6.6
SW	.1	1.5	4.3	4.7	1.5	.2		12.4	22.6	12.0	11.3	12.1	12.3	13.5	14.3	11.3	12.0
W	.1	1.9	4.8	7.9	4.2	.8		20.7	25.6	21.0	21.3	20.5	22.0	20.5	19.4	21.5	19.1
NW	.1	1.9	4.8	7.5	4.4	.6		19.3	26.1	19.7	20.0	20.5	17.8	17.9	18.1	19.3	21.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.5							.5	.0	.5	.4	.4	.8	.3	.1	.7	.7
TOT OBS	75	638	1725	2215	1048	199	5901		24.4	740	745	740	738	732	726	738	742
TOT PCT	1.3	10.8	29.2	37.6	17.8	3.4		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	.6	3.3	4.7	3.1	.7		12.4	22.8	11.3	12.1	13.2	12.9
NE	.5	2.4	3.9	3.0	.9		10.7	24.3	11.2	11.1	10.5	10.0
E	.4	2.0	3.6	3.9	.9		10.7	26.0	10.4	10.3	11.4	10.9
SE	.3	1.4	2.0	1.7	.6		6.1	24.6	6.5	6.1	5.8	6.0
S	.6	2.2	2.2	1.9	.4		7.2	21.9	7.4	7.1	7.1	7.4
SW	.6	3.2	4.7	3.2	.6		12.4	22.6	11.6	12.3	13.9	11.7
W	.7	4.3	6.7	7.5	1.5		20.7	25.6	21.2	21.3	19.9	20.3
NW	.7	3.6	6.0	7.2	1.9		19.3	26.1	19.9	19.1	18.0	20.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.5						.5	.0	.5	.6	.2	.7
TOT OBS	283	1323	1993	1856	446	5901		24.4	1485	1478	1458	1480
TOT PCT	4.8	22.4	33.8	31.5	7.6		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1946-1972

AREA 0002 OSV BRAVO
56.5N 51.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS) CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.5	.6	10.9	29.4	38.0	17.2	3.4	24.4	100.0	1485
06&09	.6	1.0	10.0	29.8	37.3	17.7	3.5	24.6	100.0	1478
12&15	.2	1.0	11.7	28.1	37.3	18.6	3.2	24.4	100.0	1458
18&21	.7	.5	10.6	29.6	37.8	17.5	3.4	24.3	100.0	1480
TOT	29	46	638	1725	2216	1048	199	24.4		5901
PCT	.5	.8	10.8	29.2	37.6	17.8	3.4		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	.3	.7	3.3	8.1		7.1
NE	.3	.4	2.2	7.7		7.2
E	.2	.2	1.7	8.6		7.5
SE	*	.1	.8	5.2		7.7
S	.1	.2	1.5	5.4		7.4
SW	.3	.4	4.0	7.7		7.2
W	.4	.8	8.0	11.6		7.1
NW	.4	.9	7.1	11.0		7.0
VAR	.0	.0	.0	.0		.0
CALM	.1	*	.1	.3		6.4
TOT OBS	122	221	1690	3856	5889	7.2
TOT PCT	2.1	3.8	28.7	65.5	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	.4	*	.6	.3	5.3	3.4	.3	*	.0	*	1.9	
NE	.6	*	.4	1.0	4.2	2.7	.2	.0	*	*	1.6	
E	.4	.1	.5	1.0	5.0	2.2	.1	*	*	.1	1.2	
SE	.4	*	.3	.8	2.5	1.4	.1	*	*	*	.6	
S	.2	*	.3	.8	2.9	2.0	.1	.0	.0	.1	.9	
SW	.4	*	.3	.7	5.8	3.5	.1	.1	*	*	1.6	
W	.8	.0	.4	1.2	9.9	5.9	.3	.1	*	*	2.1	
NW	.9	*	.3	1.2	8.6	5.9	.2	*	.1	*	2.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	.0	.0	.1	.1	*	.0	.0	.0	.2	
TOT OBS	242	13	175	414	2613	1598	76	12	13	19	719	5889
TOT PCT	4.1	.2	3.0	7.0	44.4	27.1	1.3	.2	.2	.3	12.2	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	.5	.5	.5	.5	.5	.5	.5
* OR >5000	.3	.6	.6	.7	.7	.7	.7	.7
* OR >3500	.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0
* OR >2000	11.2	27.0	28.6	29.0	29.1	29.1	29.1	29.1
* OR >1000	20.1	60.5	69.4	71.7	73.2	73.4	73.4	73.5
* OR >600	20.7	63.8	74.9	78.0	80.0	80.4	80.5	80.5
* OR >300	20.7	64.4	76.2	79.8	82.6	83.3	83.4	83.5
* OR >150	20.7	64.4	76.3	79.9	82.7	83.4	83.6	83.7
* OR > 0	20.7	64.4	76.5	80.5	86.6	86.6	87.6	87.8
TOTAL	1220	3793	4504	4798	4984	5099	5160	5170

TOTAL NUMBER OF OBS: 5889 PCT FREQ NH <5/8: 12.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.4	.9	3.9	4.0	2.9	6.0	15.1	12.9	49.7	4.1	5903

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PERIOD: (PRIMARY) 1952-1972
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AREA 0002 OSV PRAVO
56.5N 51.1W

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	.4	.2	.1	.3	.2	.3	.7	.6	.0	.0	2.8	
<1/2	NO PCP	*	.1	.1	*	*	*	.1	.1	.0	.0	.4	
	TOT %	.4	.3	.3	.3	.2	.3	.8	.7	.0	.0	3.2	
	PCP	.4	.4	.3	.5	.3	.4	.9	.8	.0	*	4.1	
1/2<1	NO PCP	.1	*	.1	*	*	.0	*	*	.0	.0	.3	
	TOT %	.4	.4	.4	.5	.4	.4	.9	.9	.0	*	4.3	
	PCP	.4	.4	.3	.4	.3	.3	.8	.5	.0	.0	3.6	
1<2	NO PCP	*	.1	.2	.1	*	*	*	.1	.0	.0	.5	
	TOT %	.4	.5	.5	.5	.4	.3	.9	.6	.0	.0	4.1	
	PCP	.8	.9	1.2	1.0	1.0	1.7	2.9	2.0	.0	*	11.4	
2<5	NO PCP	.1	.1	.1	.1	.2	.1	.2	.2	.0	.0	1.1	
	TOT %	.6	1.0	1.4	1.1	1.2	1.8	3.1	2.3	.0	*	12.5	
	PCP	3.7	2.1	1.9	1.1	1.6	3.7	6.2	5.4	.0	.1	24.8	
5<10	NO PCP	3.3	3.4	3.7	1.4	1.7	2.6	3.9	3.7	.0	.1	23.6	
	TOT %	6.0	5.5	5.6	2.5	3.2	6.3	10.2	9.1	.0	.2	48.5	
	PCP	.9	.3	.3	.2	.2	.3	1.3	2.0	.0	.0	5.8	
10+	NO PCP	3.5	2.8	2.4	1.1	1.7	2.3	3.5	3.8	.0	.3	21.6	
	TOT %	4.5	3.0	2.7	1.3	1.9	3.1	4.8	5.8	.0	.3	27.4	
	TOT OBS												5881
	TOT PCT	12.4	10.7	10.8	6.1	7.3	12.4	20.6	19.3	.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
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	*	*	.0	*	*	.1	*	*	.0		.2	
	11-21	.1	.1	.1	.1	.1	.1	.1	*	.0		.5	
	22+	.4	.2	.2	.2	.1	.2	.7	.6	.0		2.6	
	TOT %	.4	.3	.3	.3	.2	.3	.8	.7	.0	.0	3.2	
	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	*	.1	
1/2<1	4-10	*	*	*	*	*	*	*	*	.0		.2	
	11-21	*	.1	*	.1	.1	.1	.2	.1	.0		.7	
	22+	.4	.4	.4	.4	.2	.3	.7	.7	.0		3.3	
	TOT %	.4	.4	.4	.5	.4	.4	.9	.9	.0	*	4.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.1	.0	.0	.1	*	*	.0	*	.0		.2	
	11-21	*	.1	.1	.1	*	.1	.1	.1	.0		.7	
	22+	.3	.3	.4	.3	.3	.4	.7	.5	.0		3.3	
	TOT %	.4	.4	.5	.5	.4	.5	.9	.6	.0	.0	4.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
2<5	4-10	*	.1	.1	.1	*	.2	.1	.1	.0		.7	
	11-21	.2	.2	.3	.3	.3	.4	.5	.3	.0		2.5	
	22+	.4	.7	1.0	.7	.8	1.2	2.4	1.9	.0		9.1	
	TOT %	.6	1.0	1.3	1.1	1.2	1.8	3.1	2.3	.0	*	12.5	
	0-3	*	*	*	*	*	*	.1	*	.0	.2	.4	
5<10	4-10	.7	.4	.3	.3	.5	.6	.8	.6	.0		4.3	
	11-21	1.9	1.6	1.2	.6	1.2	2.3	3.0	2.5	.0		14.3	
	22+	3.3	3.4	4.0	1.6	1.6	3.3	6.3	5.9	.0		29.4	
	TOT %	6.0	5.5	5.6	2.5	3.2	6.2	10.2	9.1	.0	.2	48.4	
	0-3	*	.1	.1	.1	.1	.1	*	.1	.0	.3	.8	
10+	4-10	.8	.5	.5	.2	.6	.6	.9	1.1	.0		5.2	
	11-21	1.9	1.2	1.0	.6	.8	1.4	1.9	1.8	.0		10.6	
	22+	1.7	1.2	1.0	.4	.4	1.1	2.1	2.9	.0		10.9	
	TOT %	4.5	3.1	2.7	1.3	1.9	3.1	4.9	5.8	.0	.3	27.5	
	TOT OBS												5896
	TOT PCT	12.4	10.7	10.7	6.1	7.2	12.4	20.6	19.3	.0	.5	100.0	

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PERIOD: (PRIMARY) 1952-1972
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56.5N 51.1W

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	4.9	.2	2.2	5.7	43.5	27.8	1.1	.4	.3	.2	86.3	13.7	1484
06&09	3.7	.0	2.4	6.6	43.9	28.1	1.3	.1	.4	.3	86.9	13.1	1478
12&15	3.9	.5	3.2	8.3	44.0	27.5	1.1	.1	.1	.1	88.8	11.2	1458
18&21	4.0	.1	4.1	7.5	46.1	25.1	1.6	.1	.0	.5	89.2	10.8	1476
TOT	243	12	175	414	2615	1600	76	12	13	15	5175	721	5896
PCT	4.1	.2	3.0	7.0	44.4	27.1	1.3	.2	.2	.3	87.8	12.2	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	3.4	4.8	3.8	11.7	48.9	27.4	1487
06&09	2.8	3.2	3.7	14.1	50.1	26.1	1478
12&15	3.2	5.0	4.3	11.1	48.2	28.2	1458
18&21	3.7	4.3	4.7	12.9	46.3	28.2	1478
TOT	191	254	244	735	2855	1622	5901
PCT	3.2	4.3	4.1	12.5	48.4	27.5	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	4.9	10.1	26.7	59.9	13.4	1482
06&09	3.8	8.3	27.5	59.9	12.5	1475
12&15	3.9	10.9	28.2	61.5	10.4	1458
18&21	4.1	10.9	29.5	60.9	9.6	1474
TOT	245	590	1648	3565	676	5889
PCT	4.2	10.0	28.0	60.5	11.5	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
45/49	.0	.0	.0	.0	.0	.0	.0	*	1	*
40/44	.0	.0	.0	.0	*	.3	1.5	2.9	272	4.7
35/39	.0	.0	.0	.4	2.0	4.7	6.7	9.6	1354	23.4
30/34	.0	.0	.1	1.0	4.4	7.0	6.6	5.7	1436	24.8
25/29	*	.0	.1	1.4	5.4	7.9	4.9	4.3	1389	24.0
20/24	.0	.0	.2	.5	2.6	5.4	4.3	2.1	872	15.1
15/19	.0	.0	*	.4	.8	1.7	2.2	.6	332	5.7
10/14	.0	.0	.0	*	.4	.4	.6	.3	105	1.8
5/9	.0	.0	.0	.1	.0	.1	.3	.1	31	.5
0/4	.0	.0	.0	.0	.0	.0	.0	*	1	*
TOTAL	1	0	29	222	897	1593	1561	1490	5793	100.0
PCT	*	.0	.5	3.8	15.5	27.5	26.9	25.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	.0	.0	.0	.0	.0	.0
.1	.7	2.1	1.2	.4	.2	*	*	.0	.0
3.1	5.6	6.4	2.6	2.2	1.3	.9	1.3	.0	.2
5.1	2.8	1.6	1.7	2.1	2.7	3.4	5.1	.0	.2
2.9	1.5	.6	.5	1.5	3.3	6.3	7.2	.0	.1
.8	.3	.1	.2	.7	2.7	6.1	4.1	.0	*
.2	.1	.0	*	.3	1.4	2.8	1.0	.0	*
*	.0	.0	.0	*	.5	.9	.4	.0	.0
*	.0	.0	.0	.0	.2	.3	.1	.0	.0
.0	.0	.0	.0	.0	*	*	.0	.0	.0
12.2	10.9	10.9	6.1	7.2	12.3	20.7	19.2	.0	.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	43	41	39	30	17	11	5	29.5	1488
06&09	44	41	39	30	18	11	6	29.5	1479
12&15	44	42	39	30	17	10	4	29.6	1457
18&21	45	42	39	30	17	10	7	29.5	1479
TOT	45	41	39	30	17	11	4	29.5	5903

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	16.0	29.1	26.3	24.9	80	1459
06&09	.0	4.5	14.2	26.9	26.5	28.0	81	1456
12&15	.1	5.3	16.6	26.8	27.6	23.6	80	1430
18&21	.0	3.8	15.1	27.2	27.5	26.4	81	1453
TOT	1	251	898	1594	1562	1492	80	5798

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1946-1972

AREA 0002 OSV BRAVO
56.5N 51.1W

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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	# FOG	PCT FOG
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	7	.0	.1
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	*	18	*	.3
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.0	33	.1	.3
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.8	.0	100	.1	1.0
2	.0	.0	.0	.0	.0	.0	.0	.0	*	1.9	.4	.0	133	.2	2.1
1	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.9	.3	.0	198	.3	3.1
0	.0	.0	.0	.0	.0	.0	.0	.1	.6	2.6	.1	.0	190	.1	3.1
-1	.0	.0	.0	.0	.0	.0	.0	.0	1.7	2.8	.2	.0	273	.1	4.6
-2	.0	.0	.0	.0	.0	.0	.0	.1	3.5	2.1	*	.0	332	.0	5.7
-3	.0	.0	.0	.0	.0	.0	.0	.1	4.6	1.0	.0	.0	334	*	5.7
-4	.0	.0	.0	.0	.0	.0	.0	.7	4.7	.2	.0	.0	328	.1	5.5
-5	.0	.0	.0	.0	.0	.0	.1	2.0	3.5	.1	.0	.0	331	*	5.6
-6	.0	.0	.0	.0	.0	.0	.2	3.8	1.7	.0	.0	.0	333	*	5.7
-7/-8	.0	.0	.0	.0	.0	.0	1.6	8.2	.7	.0	.0	.0	614	.0	10.5
-9/-10	.0	.0	.0	.0	.0	.1	6.0	3.4	.1	.0	.0	.0	564	.0	9.6
-11/-13	.0	.0	.0	.0	*	2.8	9.9	.7	.0	.0	.0	.0	786	*	13.4
-14/-16	.0	.0	.0	.0	.9	7.0	1.7	.1	.0	.0	.0	.0	571	*	9.7
-17/-19	.0	.0	.0	.2	3.8	2.6	.1	.0	.0	.0	.0	.0	395	.0	6.7
-20/-22	.0	.0	.0	1.0	1.8	.1	.0	.0	.0	.0	.0	.0	169	.0	2.9
-23/-25	.0	.0	.3	1.1	.1	.0	.0	.0	.0	.0	.0	.0	93	.0	1.6
-26/-30	.0	.3	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	65	.0	1.1
<-30	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.1
TOTAL	1	21	60	146	390	745	1149	1114	1240	870	135	1	5872	56	5816
PCT	*	.4	1.0	2.5	6.6	12.7	19.6	19.0	21.1	14.8	2.3	*	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	*	.1	*	.0	.0	.0	.2
1-2	.0	.6	.2	.0	.0	.0	.7
3-4	.0	.7	1.6	.1	.0	.0	2.4
5-6	*	.3	1.1	.3	.0	.0	1.7
7	.0	.3	1.2	.7	.0	.0	2.1
8-9	.0	.1	1.0	.9	.1	.0	2.2
10-11	.0	*	.7	1.7	.2	.0	2.7
12	.0	.0	.2	.8	.1	.0	1.0
13-16	.0	.0	*	.8	.3	*	1.3
17-19	.0	.0	.0	.2	.3	*	.6
20-22	.0	.0	.0	.0	*	.0	*
23-25	.0	.0	.0	.1	.1	*	.2
26-32	.0	.0	.0	.0	.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	.1	2.0	6.0	5.6	1.2	.2	15.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.1	.0	.0	.0	.0	.2
1-2	.0	.6	.1	.0	.0	.0	.7
3-4	.0	.4	1.5	.1	.0	.0	2.0
5-6	*	.2	.8	.3	.0	.0	1.3
7	.0	*	.4	.7	*	.0	1.2
8-9	.0	.2	1.1	.6	.1	.0	2.0
10-11	.0	.0	.5	.8	.1	.0	1.4
12	.0	*	.1	.6	.2	.0	.9
13-16	.0	*	.4	.7	.3	.0	1.5
17-19	.0	.0	.0	.7	.5	.0	1.3
20-22	.0	.0	.0	.1	.5	.1	.8
23-25	.0	.0	.0	.1	.4	.1	.5
26-32	.0	.0	.0	.0	.2	.1	.3
33-40	.0	.0	.0	*	*	*	.1
41-48	.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	1.6	5.0	4.8	2.4	.5	14.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3
1-2	.0	.4	*	.0	.0	.0	.5
3-4	.0	.2	.5	*	.0	.0	.8
5-6	.1	*	.2	.1	*	.0	.6
7	.0	.0	.3	.2	*	.0	.5
8-9	.0	.0	.4	.4	*	.0	.9
10-11	.0	.0	.4	1.3	.2	.0	1.8
12	.0	.0	.3	.8	.3	.0	1.4
13-16	.0	.0	.1	1.6	.6	.0	2.3
17-19	.0	*	.0	.5	.6	.0	1.2
20-22	.0	.0	.0	.2	.6	.0	.7
23-25	.0	.0	.1	.1	.4	.1	.6
26-32	.0	.0	.0	.1	.1	.0	.2
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.1	.0	.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	.2	.9	2.3	5.4	2.8	.1	11.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4
1-2	.0	.3	.2	.0	.0	.0	.6
3-4	*	.2	.1	*	.0	.0	.3
5-6	.0	.0	.3	.1	.0	.0	.4
7	.0	.0	.2	.4	.0	.0	.6
8-9	.0	*	.2	.5	.1	.0	.8
10-11	.0	.0	.2	.5	.0	.0	.8
12	.0	.1	.0	.4	*	.0	.5
13-16	.0	.0	*	.5	.3	.0	.9
17-19	.0	.0	.0	.1	.1	*	.2
20-22	.0	.0	.0	.0	.0	.1	.1
23-25	.0	.0	*	*	.2	.0	.2
26-32	.0	.0	.0	.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	.1	1.0	1.3	2.6	.8	.1	5.9

PERIOD: (OVER-ALL) 1963-1972 JANUARY AREA 0002 OSV BRAVO

TABLE 18 (CONT) 56.5N 51.1W

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	.4	.0	.0	.0	.0	.5
1-2	.1	.4	.1	.0	.0	.0	.6
3-4	.0	.3	.5	.1	.0	.0	.9
5-6	.0	.1	.8	.3	.0	.0	1.2
7	.0	.1	.5	.1	*	.0	.8
8-9	.0	*	.3	.2	*	.0	.5
10-11	.0	.0	.1	.3	.0	.0	.4
12	.0	*	.1	.2	.1	.0	.5
13-16	.0	.1	.1	.8	.2	.0	1.2
17-19	.0	.1	.0	.2	.3	*	.6
20-22	.0	.0	.0	.0	*	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.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	.2	1.5	2.5	2.2	.7	.1	7.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.4	.0	.0	.0	.0	.4
1-2	*	.4	.2	.0	.0	.0	.6
3-4	.0	.2	.7	.1	.0	.0	1.1
5-6	.0	.2	.7	.4	.0	.0	1.2
7	.0	.3	.8	.3	.0	.0	1.4
8-9	.0	.1	.9	.3	*	.0	1.3
10-11	.0	.0	.5	.7	.0	.0	1.1
12	.0	.0	.2	.5	.1	.0	.7
13-16	.0	*	.1	.8	.1	.0	1.0
17-19	.0	.0	*	.1	.2	.0	.4
20-22	.0	.0	.0	*	.2	*	.3
23-25	.0	.0	.0	.0	.1	*	.2
26-32	.0	.0	.0	*	.1	.1	.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	.1	1.6	4.0	3.2	.8	.2	9.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.1	.0	.0	.0	.4
1-2	.0	.2	.2	.0	.0	.0	.4
3-4	.0	.8	1.0	.2	.0	.0	2.0
5-6	.0	.1	.6	.2	.0	.0	.9
7	.0	.2	.9	.3	.0	.0	1.5
8-9	.0	.2	.6	.7	.0	.0	1.6
10-11	.0	.0	.3	.7	.1	.0	1.0
12	.0	.0	.2	.5	.1	.0	.9
13-16	.0	.0	.2	1.1	.5	.0	1.8
17-19	.0	.0	.2	1.4	.6	.0	2.2
20-22	.0	.0	.0	.5	.8	.0	1.4
23-25	.0	.0	.0	*	.4	.2	.6
26-32	.0	.0	.0	.0	.3	.3	.6
33-40	.0	.0	.0	.0	.0	.1	.1
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	4.3	5.6	3.0	.6	15.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.3	*	.0	.0	.0	.3	
1-2	.0	.5	.2	.0	.0	.0	.7	
3-4	.0	.9	.9	.1	.0	.0	1.9	
5-6	.0	.4	1.0	.1	.0	.0	1.5	
7	*	.1	1.2	1.0	.0	.0	2.4	
8-9	.0	*	.6	.9	.1	.0	1.6	
10-11	.0	.1	.5	.8	.2	.0	1.6	
12	.0	.0	.2	1.6	.4	.0	2.3	
13-16	.0	.0	.3	1.4	.9	.0	2.6	
17-19	.0	.0	.1	.6	.7	*	1.4	
20-22	.0	.0	.0	.6	.7	.0	1.3	
23-25	.0	.0	.0	.5	.7	.1	1.2	
26-32	.0	.0	.0	*	.6	.3	.9	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	5.0	7.8	4.3	.4	19.8	99.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.9	2.0	.1	.0	.0	.0	3.1	
1-2	.1	3.3	1.2	.0	.0	.0	4.7	
3-4	*	3.8	6.7	.8	.0	.0	11.4	
5-6	.2	1.4	5.5	1.8	*	.0	8.9	
7	.1	1.0	5.6	3.8	.1	.0	10.5	
8-9	.0	.8	5.1	4.6	.6	.0	10.8	
10-11	.0	.1	3.1	6.9	.8	.0	10.8	
12	.0	.2	1.3	5.4	1.3	.0	8.2	
13-16	.0	.1	1.3	7.8	3.3	*	12.6	
17-19	.0	.1	.3	3.8	3.4	.1	7.8	
20-22	.0	.0	.0	1.5	2.9	.3	4.6	
23-25	.0	.0	.1	.8	2.1	.6	3.5	
26-32	.0	.0	.0	.2	1.4	.9	2.6	
33-40	.0	.0	.0	*	*	.1	.2	
41-48	.0	.0	.0	.0	.1	.1	.2	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	12.8	30.4	37.2	16.0	2.2	100.0	2130

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	2.5	2.1	2.2	1.0	.3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	464	6
6-7	*	.0	1.3	3.0	5.5	7.4	5.8	4.2	3.4	.9	.8	.1	*	.0	.0	.0	.0	.0	.0	1796	9
8-9	.0	.0	.4	.8	3.1	3.9	5.8	5.0	6.9	3.3	2.4	1.2	.9	.0	.0	.0	.0	.0	.0	1856	13
10-11	.0	.0	*	.1	1.0	1.4	1.4	1.3	2.9	2.4	1.9	1.5	1.5	.0	.0	.0	.0	.0	.0	858	16
12-13	.0	.0	*	.1	.3	.3	.2	.1	.3	.6	.9	.7	.7	.1	.1	.0	.0	.0	.0	248	19
>13	.0	.0	.0	.1	.0	*	*	.0	*	*	.1	.1	.9	*	.0	.0	.0	.0	.0	75	25
INDET	.2	.1	.7	.6	.9	.8	.5	.2	.2	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	231	7
TOTAL	15	11	274	381	721	822	770	598	762	406	336	198	225	5	4	0	0	0	0	5528	12
PCT	.3	.2	5.0	6.9	13.0	14.9	13.9	10.8	13.8	7.3	6.1	3.6	4.1	.1	.1	.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	4.6	1.4	.6	.2	48.6	.0	.0	93.8	5.9	.1	1.3	.0	.0		.2	38.8
NE	12.1	1.6	2.7	.0	75.1	.1	.3	49.3	4.1	.0	2.3	.0	.1		.0	44.2
E	24.5	1.3	1.5	.0	18.8	.2	.0	43.9	3.0	.0	8.7	.0	.1		.0	44.3
SE	18.4	1.4	2.3	.0	10.8	.2	.0	96.6	5.3	.0	8.4	.0	.2		.2	49.3
S	9.0	1.0	2.2	.0	34.2	.1	.0	45.1	6.8	.0	2.3	.2	.0		.0	45.7
SW	1.8	.1	.3	.0	93.2	.1	.3	95.6	7.1	.0	.0	.0	.1		.0	37.1
W	.5	.0	.1	.0	98.7	.1	*	99.6	10.0	.1	.1	*	.2		.1	30.0
NW	1.0	.2	*	.0	97.3	.1	.4	98.5	8.6	*	.8	*	.2		.2	31.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	2.4	.0	.0	.0	16.7	.0	.0	19.0	2.6	.0	9.5	4.8	.0		.0	44.3
TOT PCT	6.9	.7	.9	*	44.3	.1	.2	92.0	7.0	*	2.6	.1	.1		.1	38.3
TOT OBS:	5281															

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
00609	7.9	.6	.7	.1	46.8	.0	.1	95.1	6.1	.0	1.6	.2	.1		.0	36.8
06609	7.0	.8	.8	.0	44.6	.3	.2	92.2	6.1	.1	1.9	.0	.2		.0	39.6
12615	6.8	.5	1.4	.0	43.6	.0	.2	91.3	8.7	.0	2.7	.0	.2		.2	37.0
18621	6.0	.9	.9	.0	42.1	.2	.2	89.4	7.1	.1	3.5	.1	.1		.2	39.6
TOT PCT	6.9	.7	.9	*	44.3	.1	.2	92.0	7.0	*	2.4	.1	.1		.1	38.3
TOT OBS:	9285															

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	1.6	3.6	6.5	2.1	.3		12.3	23.7	12.0	13.1	13.1	13.3	11.0	12.2	11.6	12.0
NE	.1	1.0	2.3	3.0	.9	.1		7.4	22.8	7.8	6.5	6.7	7.0	8.3	7.5	7.9	7.5
E	*	.9	2.5	3.5	2.1	.3		9.3	26.0	9.0	8.9	9.4	9.6	9.3	8.9	8.6	10.4
SE	.1	1.1	3.4	3.5	1.6	.3		9.9	23.8	10.9	10.2	9.9	9.7	8.9	9.6	9.3	10.5
S	.1	1.1	3.0	3.5	1.3	.3		9.3	23.3	8.2	9.0	8.5	9.0	10.6	11.2	10.2	7.7
SW	.1	1.4	4.8	4.8	1.5	.2		12.7	22.7	13.3	13.1	12.9	11.7	11.1	12.9	12.9	13.4
W	.1	1.6	7.0	7.8	2.2	.2		19.0	23.0	19.1	19.8	18.9	18.8	18.2	19.0	19.7	18.3
NW	.1	1.7	5.7	7.0	4.4	.5		19.4	25.6	18.4	18.3	19.4	20.8	21.8	18.3	19.1	19.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0	1.2	1.1	1.2	.2	.8	.6	.8	.6
TOT OBS	81	539	1710	1998	860	110	5298		23.7	670	664	662	655	656	662	669	
TOT PCT	1.5	10.2	32.3	37.7	16.2	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	.7	3.0	3.9	4.0	.8		12.3	23.7	12.5	13.2	11.6	11.8
NE	.5	1.8	2.7	2.1	.4		7.4	22.8	7.1	6.9	7.9	7.7
E	.3	1.8	3.2	2.9	1.1		9.3	26.0	9.0	9.5	9.1	9.5
SE	.4	2.4	3.7	2.6	.8		9.9	23.8	10.6	9.8	9.2	9.9
S	.5	2.3	3.2	2.8	.5		9.3	23.3	8.6	8.8	10.9	8.9
SW	.4	3.0	5.5	3.3	.5		12.7	22.7	13.2	12.3	12.0	13.2
W	.6	4.3	8.3	5.1	.7		19.0	23.0	19.4	18.8	18.6	19.0
NW	.7	3.8	6.6	6.8	1.5		19.4	25.6	18.4	20.1	20.0	19.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.8						.8	.0	1.1	.7	.7	.7
TOT OBS	261	1172	1962	1567	336	5298		23.7	1334	1322	1311	1331
TOT PCT	4.9	22.1	37.0	29.6	6.3		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	1.1	.7	10.3	33.6	37.0	15.3	2.0	23.3	100.0	1334
06&09	.7	.9	10.1	33.4	36.8	16.6	1.7	23.6	100.0	1322
12&15	.7	.6	10.6	30.1	38.7	16.9	2.5	24.2	100.0	1311
18&21	.7	.7	9.8	32.1	38.5	16.2	2.1	23.9	100.0	1331
TOT	42	39	539	1710	1998	860	110	23.7		5298
PCT	.8	.7	10.2	32.3	37.7	16.2	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	.3	.5	3.1	8.4		7.7
NE	.2	.2	1.5	5.5		7.3
E	.1	.2	1.5	7.4		7.5
SE	.4	.3	1.6	7.7		7.3
S	.2	.4	2.1	6.6		7.3
SW	.3	.4	4.0	8.0		7.2
W	.3	.8	8.6	9.5		7.0
NW	.4	.9	7.6	10.5		6.9
VAR	.0	.0	.0	.0		.0
CALM	.2	*	.3	.3		5.5
TOT OBS	128	195	1593	3377	5293	7.1
TOT PCT	2.4	3.7	30.1	63.8	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	.5	*	.2	.8	4.9	3.9	.3	.1	.1	.1	1.4	
NE	.3	*	.3	.7	2.7	2.0	.2	.0	*	*	1.1	
E	.5	*	.7	1.0	3.4	2.2	.2	*	.1	.1	1.0	
SE	.6	*	.5	1.1	3.0	2.3	.3	*	.1	.1	1.7	
S	.4	*	.2	.8	4.0	2.3	.2	.0	*	.1	1.3	
SW	.2	.0	.1	.4	7.1	3.0	.1	*	*	.1	1.8	
W	.4	*	.1	.6	10.0	5.8	.3	*	.1	.1	1.6	
NW	.7	*	.2	.9	8.6	6.3	.3	.1	.1	.0	2.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	*	*	.2	.3	*	.0	*	.0	.2	
TOT OBS	194	11	120	342	2317	1485	96	10	28	36	660	5293
TOT PCT	3.7	.2	2.3	6.5	43.8	28.1	1.8	.2	.5	.6	12.5	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	.3	1.0	1.0	1.1	1.1	1.1	1.1	1.1
* OR >5000	.3	1.1	1.2	1.3	1.3	1.3	1.3	1.3
* OR >3500	1.0	2.7	2.9	3.0	3.1	3.1	3.1	3.1
* OR >2000	9.3	28.5	30.5	30.9	31.0	31.1	31.2	31.2
* OR >1000	14.7	61.0	70.8	73.5	74.5	74.8	74.9	74.9
* OR >600	15.1	63.8	75.9	79.4	80.9	81.3	81.4	81.4
* OR >300	15.1	64.4	77.3	81.3	83.0	83.5	83.7	83.7
* OR >150	15.1	64.4	77.4	81.4	83.2	83.7	83.9	83.9
* OR > 0	15.2	64.5	77.9	82.2	85.0	86.7	87.5	87.5
TOTAL	802	3413	4122	4352	4501	4587	4634	4634

TOTAL NUMBER OF OBS: 5293 PCT FREQ NH <5/8: 12.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.7	1.0	3.1	3.9	3.3	6.2	15.6	13.9	48.2	3.7	5299

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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	.1	.2	.2	.2	.1	.3	.2	.4	.0	*	1.8	
<1/2	NO PCP	*	*	.2	.4	.1	.0	*	*	.0	.0	.8	
	TOT %	.2	.2	.4	.6	.2	.3	.3	.5	.0	*	2.6	
	PCP	.4	.2	.2	.1	.3	.3	.4	.6	.0	.0	2.5	
1/2<1	NO PCP	*	*	.1	.1	.1	.0	.0	.1	.0	*	.4	
	TOT %	.4	.3	.3	.2	.4	.3	.4	.7	.0	*	2.9	
	PCP	.6	.3	.4	.5	.5	.6	.6	.6	.0	*	4.1	
1<2	NO PCP	.1	*	*	.1	.1	*	*	.1	.0	*	.5	
	TOT %	.7	.4	.4	.6	.5	.7	.6	.7	.0	*	4.6	
	PCP	1.4	.9	1.3	1.2	1.2	2.0	2.5	2.0	.0	*	12.5	
2<5	NO PCP	.1	*	.3	.3	.2	.1	.1	.3	.0	*	1.3	
	TOT %	1.4	1.0	1.5	1.5	1.4	2.1	2.6	2.2	.0	.1	13.8	
	PCP	3.7	1.9	2.0	1.5	1.9	3.5	7.0	6.9	.0	.1	28.5	
5<10	NO PCP	3.1	1.9	2.9	3.1	3.0	3.3	4.7	4.4	.0	.3	26.7	
	TOT %	6.8	3.8	4.9	4.6	4.9	6.8	11.7	11.3	.0	.4	55.2	
	PCP	.5	.1	.1	.1	.1	.3	.5	.8	.0	.0	2.6	
10+	NO PCP	2.3	1.7	1.7	2.4	1.7	2.7	2.8	3.3	.0	.3	18.3	
	TOT %	2.8	1.8	1.8	2.5	1.8	2.5	3.4	4.1	.0	.3	20.9	
	TOT OBS												5283
	TOT PCT	12.3	7.3	9.3	9.9	9.3	12.7	19.0	19.5	.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
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
<1/2	4-10	.0	.1	*	*	*	*	*	.0	.0		.2	
	11-21	*	*	.2	.2	.1	.1	*	.1	.0		.8	
	22+	.1	.1	.2	.3	.1	.2	.2	.3	.0		1.6	
	TOT %	.2	.2	.4	.6	.2	.3	.3	.5	.0	*	2.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
1/2<1	4-10	.0	.0	*	*	*	*	*	*	.0		.1	
	11-21	.1	*	.1	.1	.1	.1	.1	.1	.0		.6	
	22+	.3	.2	.2	.1	.2	.2	.2	.6	.0		2.1	
	TOT %	.4	.3	.3	.2	.4	.3	.4	.7	.0	*	2.9	
	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	
1<2	4-10	.1	.1	*	.0	*	*	*	.1	.0		.3	
	11-21	.1	.1	.1	.2	.1	.2	.2	.2	.0		1.2	
	22+	.4	.2	.3	.4	.4	.5	.4	.4	.0		3.0	
	TOT %	.7	.4	.4	.6	.5	.7	.6	.7	.0	*	4.6	
	0-3	*	.0	.0	.0	.0	.0	*	.0	.0	.1	.1	
2<5	4-10	.1	.1	*	.1	.1	.1	.2	.1	.0		.9	
	11-21	.4	.2	.2	.4	.3	.7	.8	.5	.0		3.4	
	22+	.9	.7	1.3	1.0	1.0	1.2	1.7	1.7	.0		9.4	
	TOT %	1.5	1.0	1.5	1.5	1.4	2.0	2.6	2.2	.0	.1	13.8	
	0-3	.1	*	*	*	.1	*	*	.1	.0	.4	.8	
5<10	4-10	.7	.4	.4	.5	.6	.8	1.0	.8	.0		5.3	
	11-21	2.0	1.1	1.1	1.5	1.5	2.7	4.2	3.1	.0		17.2	
	22+	4.0	2.2	3.4	2.4	2.7	3.3	6.5	7.4	.0		31.9	
	TOT %	6.8	3.8	4.9	4.6	4.9	6.8	11.7	11.3	.0	.4	55.1	
	0-3	*	*	*	*	*	.1	.1	*	.0	.3	.6	
10+	4-10	.6	.4	.4	.4	.3	.4	.4	.7	.0		3.5	
	11-21	1.0	.8	.8	1.1	.9	1.0	1.7	1.8	.0		9.0	
	22+	1.1	.6	.6	1.0	.6	1.1	1.2	1.7	.0		7.9	
	TOT %	2.8	1.8	1.8	2.5	1.8	2.5	3.4	4.1	.0	.3	21.0	
	TOT OBS												5293
	TOT PCT	12.3	7.3	9.3	9.9	9.3	12.7	19.0	19.5	.0	.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	3.4	.2	1.7	6.1	43.6	26.6	1.3	.4	.3	.7	84.3	15.7	1334
06&09	3.3	.0	1.4	6.1	42.1	29.7	1.8	.0	1.0	.8	86.2	13.8	1321
12&15	3.8	.3	3.3	6.3	44.2	28.0	2.6	.0	.5	.7	89.2	10.8	1311
18&21	4.1	.3	2.7	7.4	45.3	27.9	1.5	.4	.3	.5	90.4	9.6	1331
TOT	195	11	120	342	2320	1485	96	10	28	30	4637	660	5297
PCT	3.7	.2	2.3	6.5	43.8	28.0	1.8	.2	.5	.6	87.5	12.5	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	2.2	2.7	4.0	13.3	58.8	19.0	1334
06&09	2.0	2.5	4.5	15.5	56.7	18.9	1322
12&15	2.5	3.5	5.0	12.7	53.1	23.2	1310
18&21	3.5	2.8	5.0	14.0	51.9	22.7	1331
TOT	136	152	246	735	2919	1109	5297
PCT	2.6	2.9	4.6	13.9	55.1	20.9	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	3.5	7.4	25.7	59.2	15.1	1333
06&09	3.3	6.7	27.4	59.7	12.9	1321
12&15	3.8	9.3	27.3	63.1	9.5	1309
18&21	4.1	9.5	29.0	62.1	8.9	1330
TOT	195	437	1449	3230	614	5293
PCT	3.7	8.3	27.4	61.0	11.6	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
50/54	*	.0	.0	.0	.0	.0	.0	.0	1	*
45/49	*	.0	.0	.0	.0	.0	.0	.0	1	*
40/44	.0	.0	.0	.0	.0	.2	1.8	3.4	284	5.4
35/39	.0	.0	*	.1	1.0	3.1	6.3	11.0	1128	21.6
30/34	.0	.0	*	1.2	4.3	7.4	7.4	6.4	1398	26.7
25/29	.0	*	.1	1.1	4.8	8.2	5.2	3.9	1215	23.2
20/24	.0	.0	.2	.7	2.4	5.2	4.4	1.4	749	14.3
15/19	.0	.0	*	.2	1.0	2.0	2.9	.8	361	6.9
10/14	.0	.0	.0	*	.2	.2	.7	.5	83	1.6
5/9	.0	.0	.0	.0	.0	.1	.1	*	9	.2
TOTAL	2	1	10	173	713	1379	1506	1436	5229	100.0
PCT	*	*	.4	3.3	13.6	26.4	28.8	27.5		

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	.0	.0	.0	.0	*
.1	.4	1.9	2.2	.5	.2	*	*	.0	*
2.7	2.7	5.1	4.8	2.9	1.2	.8	1.2	.0	.2
5.4	2.9	1.6	2.1	2.6	2.5	2.9	6.3	.0	.4
3.4	1.3	.6	.7	2.1	3.4	5.3	6.3	.0	.1
.7	.1	.2	.1	.7	2.9	5.5	4.1	.0	.1
*	.0	*	*	.3	1.7	3.3	1.5	.0	*
.0	.0	.0	.0	*	.5	.9	.1	.0	*
.0	.0	.0	.0	*	.1	.1	.0	.0	.0
12.4	7.5	9.3	9.9	9.2	12.6	18.8	19.5	.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	50	41	39	30	18	12	7	29.5	1335
06&09	43	41	40	30	17	12	7	29.4	1322
12&15	43	41	40	30	18	13	7	29.6	1311
18&21	43	41	40	30	18	13	6	29.7	1331
TOT	50	41	40	30	18	12	6	29.6	5299

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.2	4.4	13.1	26.6	27.6	28.1	81	1318
06&09	.0	3.4	14.9	25.6	29.1	27.0	81	1307
12&15	.0	3.7	13.8	24.8	30.4	27.3	81	1294
18&21	.0	3.3	12.8	28.3	28.0	27.6	81	1313
TOT	2	193	713	1379	1506	1439	81	5232

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1946-1972

AREA 0002 OSV BRAVO
56.5N 51.0W

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	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	15	.0	.3
6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	19	.1	.3
5	.0	.0	.0	.0	.0	.0	.0	.0	.2	.5	.0	.0	39	.1	.6
4	.0	.0	.0	.0	.0	.0	.0	.0	.6	.5	.0	.0	57	.1	1.0
3	.0	.0	.0	.0	.0	.0	.0	*	1.4	1.1	.0	.0	129	.4	2.1
2	.0	.0	.0	.0	.0	.0	.0	.3	2.8	.2	.0	.0	170	.3	3.0
1	.0	.0	.0	.0	.0	.0	.0	.8	4.1	.1	.0	.0	265	.4	4.7
0	.0	.0	.0	.0	.0	.0	*	1.2	2.5	.0	.0	.0	194	.5	3.3
-1	.0	.0	.0	.0	.0	.0	*	2.7	2.0	*	.0	.0	245	.1	4.6
-2	.0	.0	.0	.0	.0	.0	.2	3.4	.6	.0	.0	.0	219	.1	4.1
-3	.0	.0	.0	.0	.0	.0	.4	4.1	.1	.0	.0	.0	243	.2	4.5
-4	.0	.0	.0	.0	.0	*	1.4	3.5	*	.0	.0	.0	260	.1	4.9
-5	.0	.0	.0	.0	.0	.2	2.8	2.5	.0	.0	.0	.0	286	*	5.5
-6	.0	.0	.0	.0	.0	.4	4.8	.7	.0	.0	.0	.0	307	*	5.9
-7/-8	.0	.0	.0	.0	.0	2.0	8.4	.2	.0	.0	.0	.0	551	.0	10.6
-9/-10	.0	.0	.0	.0	.2	6.2	3.3	*	.0	.0	.0	.0	506	.0	9.7
-11/-13	.0	.0	.0	.0	2.0	8.4	.2	.0	.0	.0	.0	.0	551	.0	10.6
-14/-16	.0	.0	.0	.9	7.4	1.1	.0	.0	.0	.0	.0	.0	488	.0	9.4
-17/-19	.0	.0	.2	4.5	2.3	.0	.0	.0	.0	.0	.0	.0	363	.0	7.0
-20/-22	.0	.0	1.3	2.3	*	.0	.0	.0	.0	.0	.0	.0	190	.0	3.6
-23/-25	.0	.3	1.2	*	.0	.0	.0	.0	.0	.0	.0	.0	78	.0	1.5
-26/-30	.1	.4	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	.0	.6
<-30	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	7	39	140	402	620	954	1116	1019	784	154	1	1	5207	121	5086
PCT	.1	.7	2.7	7.7	11.9	18.3	21.4	19.6	14.5	3.0	*	*	100.0	2.3	97.7

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	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.1	.2	.0	.0	.0	.3
3-4	.0	.2	.7	.1	.0	.0	1.0
5-6	.0	*	.5	.1	.0	.0	.6
7	.0	.2	.5	.1	.1	.0	.8
8-9	.0	.0	.7	.3	.0	.0	1.0
10-11	.0	.0	.7	.8	.1	.0	1.6
12	.0	.0	.3	.6	.2	.0	1.1
13-16	.0	.0	.1	.8	.2	.0	1.2
17-19	.0	.0	.1	1.0	.8	.1	2.0
20-22	.0	.0	.0	.3	.3	.1	.7
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	3.7	4.1	1.7	.2	10.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2
1-2	.0	.3	.1	.0	.0	.0	.4
3-4	.0	.2	.9	.1	.0	.0	1.2
5-6	.0	.1	.2	.1	.0	.0	.4
7	.0	.2	.5	.3	.0	.0	.9
8-9	.0	.0	.3	.3	.0	.0	.6
10-11	.0	.0	.5	.5	.1	.0	1.1
12	.0	.1	.3	.7	.1	.0	1.1
13-16	.0	.0	.1	.7	.2	.0	1.0
17-19	.0	.0	.1	.1	.1	.0	.2
20-22	.0	.0	.0	.1	.1	.1	.2
23-25	.0	.0	.0	.1	.1	.0	.1
26-32	.0	.0	.0	.0	.1	.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	.1	.8	3.0	2.8	.7	.1	7.4

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	.2	.1	.0	.0	.0	.3
3-4	.0	.0	.3	*	.0	.0	.4
5-6	.0	*	.2	.5	.0	.0	.7
7	.0	.1	.4	.4	.1	.0	.9
8-9	.0	.0	*	.2	.1	.0	.2
10-11	.0	.0	.4	.6	.1	.0	1.1
12	.0	.0	.1	.3	.3	.0	.7
13-16	.0	.1	.1	.6	.5	*	1.3
17-19	.0	.0	*	.2	.5	.0	.8
20-22	.0	.0	.0	.1	.6	.2	.9
23-25	.0	.0	.0	.0	*	.1	.2
26-32	.0	.0	.0	.0	.1	.0	.1
33-40	.0	.0	.0	.0	.0	.1	.1
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	1.6	2.8	2.3	.4	7.8

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	.2	.1	.0	.0	.0	.3
3-4	.0	.2	.6	.1	.0	.0	.8
5-6	.0	.1	.7	.3	.0	.0	1.0
7	.0	.1	1.1	1.1	.0	.0	2.3
8-9	.0	.1	.4	.7	.1	.0	1.2
10-11	.0	.0	.1	.8	.3	.0	1.3
12	.0	.0	*	.5	.3	.0	.8
13-16	.0	.0	.1	1.1	.4	.1	1.7
17-19	.0	.0	.0	.3	.7	.1	1.0
20-22	.0	.0	.0	.1	.4	.1	.6
23-25	.0	.0	.0	.0	.0	.1	.1
26-32	.0	.0	.0	.0	*	.0	*
33-40	.0	.0	.0	.0	.0	.1	.1
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	3.1	4.9	2.2	.4	11.4

PERIOD: (OVER-ALL) 1963-1972

FEBRUARY

AREA 0002 OSV BRAVO
96.5N 51.0W

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	.2	.1	.0	.0	.0	.4
1-2	.0	.2	.3	.0	.0	.0	.5
3-4	.0	.1	.4	.0	.0	.0	.5
5-6	.0	.3	.6	.1	.0	.0	1.0
7	.0	.1	.9	.6	.0	.0	1.6
8-9	.0	.0	.5	.5	.0	.0	1.0
10-11	.0	.0	.2	1.0	.1	.0	1.3
12	.0	.0	.1	.7	.1	.0	.9
13-16	.0	.0	.1	.8	.3	.0	1.3
17-19	.0	.0	.0	.5	.4	.0	.9
20-22	.0	.0	.1	.1	.5	*	.7
23-25	.0	.0	.0	.1	.2	.1	.3
26-32	.0	.0	.0	.0	.1	.0	.1
33-40	.0	.0	.0	.0	.2	.2	.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
TOT PCT	.1	.9	3.4	4.4	1.8	.2	10.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2
1-2	.0	.1	.1	.0	.0	.0	.2
3-4	.0	.5	.5	.1	.0	.0	1.0
5-6	.0	.1	.9	.3	.0	.0	1.3
7	.0	.1	1.4	.3	.0	.0	1.8
8-9	.0	.1	.4	.6	.0	.0	1.1
10-11	.0	.1	.7	.9	.1	.0	1.7
12	.0	.0	.3	.9	.1	.0	1.3
13-16	.0	.0	.2	.8	.3	.0	1.4
17-19	.0	.0	.1	.4	.6	.1	1.0
20-22	.0	.0	.1	.1	.5	.1	.7
23-25	.0	.0	.0	.1	.2	.0	.3
26-32	.0	.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	.1	1.0	4.5	4.4	1.9	.2	12.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.1	.3	*	.0	.0	.0	.3
3-4	.0	.4	.7	.1	.0	.0	1.2
5-6	.0	.3	1.0	.1	.0	.0	1.4
7	.1	.0	2.3	.7	.0	.0	3.1
8-9	.0	.1	1.2	1.3	.0	.0	2.6
10-11	.0	.1	1.6	2.1	*	.0	3.8
12	.0	.1	.5	1.1	.1	.0	1.8
13-16	.0	.0	.9	3.3	.2	.0	3.8
17-19	.0	.0	.1	.9	.5	.0	1.5
20-22	.0	.0	.0	.1	.3	.1	.5
23-25	.0	.0	.0	.1	.2	.1	.3
26-32	.0	.0	.0	.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	.1	1.4	7.8	9.7	1.5	.1	20.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.3	.0	.0	.0	.0	.3	
1-2	.0	.4	.3	.0	.0	.0	.7	
3-4	.0	.4	.8	.0	.0	.0	1.1	
5-6	.0	*	.9	.1	.0	.0	1.0	
7	.0	.1	1.0	.5	.1	.0	1.7	
8-9	.0	.1	.5	.8	.0	.0	1.3	
10-11	.0	.1	.8	1.3	.1	.0	2.2	
12	.0	.0	.6	1.4	.2	.0	2.1	
13-16	.0	.0	.2	1.6	1.0	.1	2.9	
17-19	.0	.0	*	1.0	1.6	.1	2.7	
20-22	.0	.0	.0	.3	1.0	.0	1.2	
23-25	.0	.0	.0	.0	.4	.2	.6	
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	.0	1.3	5.1	6.9	4.5	.5	18.4	99.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.8	1.9	.1	.0	.0	.0	2.7	
1-2	.1	1.7	1.2	.0	.0	.0	3.0	
3-4	.0	1.9	4.8	.5	.0	.0	7.3	
5-6	.0	.8	5.0	1.6	.0	.0	7.4	
7	.1	.8	8.1	4.0	.2	.0	13.2	
8-9	.0	.3	4.0	4.7	.2	.0	9.1	
10-11	.0	.2	5.1	8.0	.9	.0	14.1	
12	.0	.1	2.2	6.2	1.3	.0	9.7	
13-16	.0	.1	1.3	9.7	3.2	.2	14.4	
17-19	.0	.0	.3	4.2	5.1	.3	9.9	
20-22	.0	.0	.1	1.0	3.8	.6	5.6	
23-25	.0	.0	.0	.3	1.1	.5	1.9	
26-32	.0	.0	.0	.0	.7	.4	1.1	
33-40	.0	.0	.0	.0	.2	.3	.5	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	7.8	32.2	40.1	16.7	2.2	100.0	1931

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	2.1	1.9	2.0	.6	.4	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	374	6
6-7	.0	.0	.6	2.4	6.2	6.8	6.0	2.8	3.0	.7	.5	.1	*	.0	.0	.0	.0	.0	.0	1406	9
8-9	*	.0	.2	.6	3.7	4.8	8.1	6.5	8.7	4.2	1.9	.8	.4	*	.0	.0	.0	.0	.0	1914	12
10-11	.0	*	.1	.3	.8	1.0	1.5	1.7	2.6	3.5	2.0	.8	.8	*	.0	.0	.0	.0	.0	730	15
12-13	.0	.0	*	*	.1	.1	.1	*	.2	.6	.6	.5	.9	.0	.0	.0	.0	.0	.0	156	21
>13	.0	.0	.0	.0	.0	.1	*	.0	.1	*	.1	.1	.2	.1	.0	.0	.0	.0	.0	--	--
INDET	.1	*	.9	.6	1.0	.5	.4	.2	.2	.0	*	.0	.0	.0	.0	.0	.0	.0	-	192	7
TOTAL	11	15	195	278	669	669	797	547	713	443	237	109	111	9	0	0	0	0	0	4803	11
PCT	.2	.3	4.1	5.8	13.9	13.9	16.6	11.4	14.8	9.2	4.9	2.3	2.3	.2	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1948-1972

AREA 0002 OSV BRAVO
66.5N 51.0W

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	4.7	.6	.8	.0	38.5	.1	.3	43.4	6.0	.0	.2	.0	.1	.2		50.1
NE	15.4	2.5	2.2	.1	22.2	.3	.5	40.5	4.1	.0	3.4	.1	.0	.1		51.8
E	21.8	3.4	4.4	.0	13.0	.1	.2	39.4	4.6	.1	8.8	.3	.0	.0		46.8
SE	21.7	1.9	4.5	.0	18.3	.4	.0	44.6	3.9	.1	3.2	.0	.0	.1		48.1
S	10.5	1.3	2.4	.0	26.8	.7	.0	40.4	6.3	.0	3.9	.0	.0	.3		49.0
SW	3.7	.9	.5	.0	39.5	.1	.0	42.9	4.8	.0	1.7	.0	.0	.0		50.6
W	1.4	.1	.4	.0	48.0	.1	.3	50.0	9.8	.0	1.5	.0	.0	.1		38.6
NW	1.3	.3	.5	.0	54.7	.2	.5	57.1	9.9	.0	.2	.0	.0	.1		32.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	17.9	.0	.0	17.9	5.1	.0	.0	.0	.0	.0		76.9
TOT PCT	8.7	1.3	1.7	*	35.2	.2	.3	45.8	6.6	*	2.6	.1	*	.1		44.8
TOT OBS:	5765															

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	9.1	1.5	1.7	.0	34.6	.1	.1	45.2	6.6	.0	1.7	.0	.1	.0		46.5
06&09	10.8	1.6	1.5	.0	34.1	.1	.2	47.0	6.6	.1	1.5	.0	.0	.1		44.7
12&15	7.9	.6	1.7	.0	36.0	.3	.3	45.9	6.8	.0	3.6	.1	.0	.2		43.4
18&21	7.1	1.3	1.8	.1	36.3	.2	.5	45.4	6.5	.0	3.5	.1	.0	.2		44.3
TOT PCT	8.7	1.3	1.7	*	35.3	.2	.3	45.9	6.6	*	2.6	.1	*	.1		44.7
TOT OBS:	5780															

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	1.9	5.0	5.2	2.4	.2		14.9	22.8	15.0	14.8	16.5	15.8	14.8	13.3	14.3	15.1
NE	.1	1.8	4.0	4.6	2.3	.4		13.3	23.8	12.9	10.4	12.1	15.2	14.9	13.3	13.2	14.1
E	.1	1.5	5.1	4.2	2.3	.3		13.4	22.9	14.8	15.1	13.2	11.1	12.7	13.6	13.6	13.1
SE	.1	1.2	2.7	1.8	.8	.1		6.7	20.5	6.7	7.1	6.5	7.7	6.5	6.6	6.0	6.5
S	.2	1.4	3.0	2.5	.9	*		7.9	20.4	7.7	6.9	8.3	7.5	8.1	9.1	7.9	7.8
SW	.2	1.6	3.6	2.8	.9	.2		9.2	20.4	9.4	9.6	9.9	9.8	9.7	8.7	9.0	7.8
W	.2	1.9	4.8	4.5	1.4	.2		13.0	21.3	12.1	14.1	12.6	12.8	13.0	12.2	13.9	13.6
NW	.1	2.1	6.9	9.0	3.0	.2		20.9	23.6	20.6	21.4	20.1	19.1	19.9	22.3	21.7	21.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0	.8	.6	.8	1.1	.6	.8	.9	.4
TOT OBS	103	784	1991	2005	810	95	5788		22.2	729	723	719	724	720	724	724	725
TOT PCT	1.8	13.5	34.4	34.6	14.0	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	.6	3.9	5.6	4.0	.8		14.9	22.8	14.9	16.1	14.0	14.7
NE	.7	3.3	4.5	3.6	1.2		13.3	23.8	11.7	13.7	14.1	13.6
E	.6	4.0	4.4	3.6	.9		13.4	22.9	15.0	12.1	13.2	13.4
SE	.4	2.2	2.4	1.4	.3		6.7	20.5	6.9	7.1	6.6	6.3
S	.7	2.2	2.9	1.8	.3		7.9	20.4	7.3	7.9	8.6	7.9
SW	.7	2.9	3.4	1.8	.4		9.2	20.4	9.5	9.8	9.2	8.4
W	.8	3.6	5.0	3.0	.6		13.8	21.3	13.1	12.7	12.6	13.7
NW	.9	4.3	8.1	6.6	.9		20.9	23.6	21.0	19.6	21.1	21.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.7						.7	.0	.7	1.0	.7	.3
TOT OBS	352	1527	2111	1494	304	5788		22.2	1452	1443	1444	1449
TOT PCT	6.1	26.4	36.5	25.8	5.3		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1946-1972

AREA 0002 OSV BRAVO
56.5N 51.0W

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	.7	1.1	14.6	35.7	32.6	13.7	1.7	21.9	100.0	1452
06&09	1.0	1.2	12.9	34.4	34.7	14.4	1.4	22.2	100.0	1443
12&15	.7	1.2	12.5	33.7	34.9	15.3	1.8	22.7	100.0	1444
18&21	.3	.9	14.2	33.8	36.4	12.6	1.7	22.1	100.0	1449
TOT	99	64	784	1991	2005	810	95	22.2		5788
PCT	.7	1.1	13.5	34.4	34.6	14.0	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	.3	.6	4.4	9.6		7.2
NE	.6	.4	2.4	9.8		7.2
E	.4	.4	2.1	10.5		7.4
SE	.1	.2	1.0	5.4		7.5
S	.4	.2	1.8	5.6		7.1
SW	.2	.4	3.1	5.5		7.1
W	.3	.6	5.5	6.7		6.9
NW	.3	.9	9.5	10.2		6.9
VAR	.0	.0	.0	.0		.0
CALM	.1	*	.1	.5		7.0
TOT OBS	161	214	1724	3685	5784	7.1
TOT PCT	2.8	3.7	29.8	63.7	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	.5	.0	.2	.8	4.9	6.3	.4	*	.1	*	1.8	
NE	.8	*	.4	1.5	4.3	3.7	.3	*	*	*	2.1	
E	.9	.1	.8	1.7	4.7	3.2	.3	*	*	.1	1.8	
SE	.3	.0	.4	.9	2.3	1.5	.2	.1	.1	*	1.0	
S	.3	*	.2	.8	3.2	1.9	.2	*	.1	*	1.2	
SW	.3	*	.1	.5	3.4	3.3	.1	*	.1	*	1.4	
W	.4	.0	.1	.7	5.0	5.0	.1	*	.0	*	1.6	
NW	.4	.0	.2	.8	8.2	8.6	.4	.1	.0	*	2.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	.0	*	.1	.3	.1	.0	*	*	.2	
TOT OBS	224	6	136	447	2080	1957	115	20	24	17	758	5784
TOT PCT	3.9	.1	2.4	7.7	36.0	33.8	2.0	.3	.4	.3	13.1	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	.7	.7	.7	.7	.7	.7	.7
* OR >5000	.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >3500	1.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0
* OR >2000	13.9	35.3	36.6	36.8	36.9	36.9	36.9	36.9
* OR >1000	20.0	64.5	70.8	72.0	72.7	72.8	72.8	72.8
* OR >600	20.4	67.5	76.8	79.1	80.2	80.5	80.6	80.6
* OR >300	20.4	67.9	78.0	80.8	82.4	82.9	82.9	82.9
* OR >150	20.4	67.9	78.1	80.8	82.4	83.0	83.0	83.0
* OR > 0	20.4	68.0	78.4	81.6	84.1	86.1	86.9	86.9
TOTAL	1182	3944	4546	4732	4880	4994	5039	5041

TOTAL NUMBER OF OBS: 5801 PCT FREQ NH <5/8: 13.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.0	1.1	4.2	3.9	2.9	6.1	14.6	13.6	48.8	3.8	5805

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1946-1972

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56.5N 51.0W

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	.3	.5	.2	.2	.1	.1	.1	.2	.0	*	1.8	
<1/2	NO PCP	.0	.2	.4	.1	.1	.1	.2	*	.0	.0	1.0	
	TOT %	.3	.6	.6	.3	.3	.2	.3	.2	.0	*	2.8	
	PCP	.2	.2	.4	.3	.2	.2	.2	.4	.0	.0	2.2	
1/2<1	NO PCP	.1	*	.1	.1	*	*	*	.1	.0	.0	.4	
	TOT %	.3	.3	.5	.3	.2	.2	.3	.4	.0	.0	2.6	
	PCP	.4	.5	.4	.3	.2	.2	.5	.5	.0	.0	2.9	
1<2	NO PCP	*	.1	.2	*	*	*	*	*	.0	.0	.4	
	TOT %	.4	.6	.6	.3	.2	.2	.5	.5	.0	.0	3.3	
	PCP	1.2	1.2	1.7	.8	.6	.8	1.2	2.0	.0	*	9.6	
2<5	NO PCP	.1	.2	.6	.1	.1	*	.1	.1	.0	*	1.2	
	TOT %	1.3	1.4	2.3	.9	.8	.9	1.2	2.1	.0	*	10.8	
	PCP	4.1	2.4	2.4	1.3	1.8	2.3	4.1	8.1	.0	.1	26.8	
5<10	NO PCP	4.7	3.8	3.5	1.7	2.1	2.2	3.4	4.6	.0	.1	26.1	
	TOT %	8.8	6.4	5.9	3.1	3.9	4.5	7.4	12.7	.0	.2	52.8	
	PCP	.2	.3	.1	.1	.3	.3	.5	.8	.0	*	2.6	
10+	NO PCP	3.5	3.6	3.4	1.8	2.3	2.9	2.9	4.2	.0	.4	25.1	
	TOT %	3.7	3.9	3.5	1.9	2.6	3.2	3.4	5.0	.0	.5	27.6	
	TOT OBS												5768
	TOT PCT	14.9	13.2	13.4	6.7	7.9	9.2	13.1	20.9	.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
	0-3	.0	.0	*	*	.0	.0	*	.0	.0	*	.1	
<1/2	4-10	.0	.1	*	*	.1	.1	.1	*	.0		.4	
	11-21	.1	.1	.2	.1	.1	.1	.1	*	.0		.8	
	22+	.2	.4	.3	.2	.1	.1	.1	.2	.0		1.5	
	TOT %	.3	.6	.6	.3	.3	.2	.3	.2	.0	*	2.8	
	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
1/2<1	4-10	*	.1	.1	*	*	*	.1	*	.0		.3	
	11-21	*	*	.2	.2	.1	.1	.1	.1	.0		.7	
	22+	.2	.2	.3	.2	.1	.1	.1	.3	.0		1.6	
	TOT %	.3	.3	.5	.3	.2	.2	.3	.4	.0	.0	2.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	*	*	*	*	*	*	.1	*	.0		.2	
	11-21	.1	.1	.2	*	*	.1	.1	.1	.0		.7	
	22+	.3	.5	.3	.2	.2	.1	.3	.4	.0		2.4	
	TOT %	.4	.6	.6	.3	.2	.2	.5	.5	.0	.0	3.3	
	0-3	*	*	.0	.0	.0	.0	.0	.0	.0	*	.1	
2<5	4-10	.1	.1	.1	.1	.1	.1	.1	*	.0		.7	
	11-21	.3	.2	.5	.2	.1	.2	.3	.5	.0		2.5	
	22+	.9	1.0	1.6	.6	.5	.5	.8	1.5	.0		7.5	
	TOT %	1.3	1.4	2.3	.9	.8	.9	1.2	2.1	.0	*	10.8	
	0-3	.1	*	*	.1	.1	.1	.1	*	.0	.2	.7	
5<10	4-10	1.0	.7	.6	.5	.6	.6	.7	1.0	.0		5.5	
	11-21	2.9	1.8	2.1	1.4	1.5	1.8	2.6	3.4	.0		17.5	
	22+	4.9	3.8	3.2	1.1	1.7	2.0	4.0	8.3	.0		29.0	
	TOT %	8.8	6.4	5.9	3.0	3.8	4.5	7.4	12.6	.0	.2	52.7	
	0-3	.1	.1	*	*	.1	.1	.1	.1	.0	.4	1.0	
10+	4-10	.8	.9	.7	.6	.6	.8	1.0	1.1	.0		6.4	
	11-21	1.7	1.7	1.8	.8	1.1	1.3	1.5	2.3	.0		12.3	
	22+	1.2	1.3	.9	.4	.8	1.0	.9	1.6	.0		8.2	
	TOT %	3.8	4.0	3.5	1.9	2.6	3.2	3.4	5.0	.0	.4	27.8	
	TOT OBS												5784
	TOT PCT	15.0	13.3	13.4	6.7	7.9	9.2	13.0	20.8	.0	.7	100.0	

MARCH

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1946-1972

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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	3.0	.1	2.2	6.5	35.2	33.5	1.7	.1	.5	.1	82.9	17.1	1456
06&09	2.8	.0	1.6	7.9	35.4	38.0	1.6	.3	.4	.7	88.8	11.2	1449
12&15	4.9	.3	3.0	8.7	35.6	32.5	2.8	.5	.3	.3	88.7	11.3	1448
18&21	4.7	.1	2.6	8.0	37.5	31.4	1.9	.5	.4	.1	87.2	12.8	1451
TOT	224	6	136	451	2085	1964	116	20	24	17	5043	761	5804
PCT	3.9	.1	2.3	7.8	35.9	33.8	2.0	.3	.4	.3	86.9	13.1	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	2.4	2.3	2.6	11.2	55.8	25.7	1455
06&09	2.1	1.4	3.0	11.0	58.2	24.2	1449
12&15	3.2	3.7	4.2	11.2	47.7	30.0	1448
18&21	3.5	2.9	3.5	9.6	48.9	31.6	1452
TOT	162	149	194	624	3056	1619	5804
PCT	2.8	2.6	3.3	10.8	52.7	27.9	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 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	3.0	6.7	21.0	62.4	16.6	1455
06&09	2.8	5.2	20.6	68.6	10.8	1449
12&15	4.9	10.4	26.1	63.4	10.5	1447
18&21	4.7	9.0	24.0	63.7	12.3	1450
TOT	224	454	1329	3742	730	5801
PCT	3.9	7.8	22.9	64.5	12.6	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
45/49	.0	.0	.0	.0	.0	*	.0	*	4	.1
40/44	.0	.0	*	.1	.1	.4	1.3	3.5	313	5.4
35/39	.0	.0	.1	.7	2.7	6.0	9.7	14.5	1939	33.7
30/34	.0	.0	.1	1.5	6.3	9.4	8.8	6.4	1866	32.4
25/29	.0	.0	.1	1.2	4.2	7.3	4.6	3.0	1171	20.3
20/24	.0	.0	.2	.5	1.2	2.3	1.8	.6	378	6.6
15/19	.0	.0	*	.1	.2	.2	.5	.3	75	1.3
10/14	.0	.0	.0	.0	.0	.0	.1	.1	9	.2
5/9	.0	.0	.0	.0	.0	.0	.0	.1	3	.1
TOTAL	0	0	25	230	849	1481	1540	1637	5758	100.0
PCT	.0	.0	.4	4.0	14.7	25.7	26.7	28.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	*	.1	.0	.0	.0	.0	.0	.0
.2	.7	2.4	1.0	.6	.3	.1	.1	.0	*
3.9	7.9	8.5	3.9	3.4	1.9	1.7	2.1	.0	.3
7.1	3.5	2.2	1.3	2.7	3.7	3.4	8.3	.0	.2
3.3	1.0	.4	.3	.9	2.3	4.7	7.3	.0	.1
.5	.2	*	*	.2	.9	1.9	2.8	.0	*
*	*	.0	.0	.0	.1	.8	.3	.0	.0
.0	.0	.0	.0	.0	.0	.2	*	.0	.0
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
15.0	13.3	13.5	6.7	7.9	9.2	12.9	20.9	.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	46	41	40	33	22	18	7	32.1	1456
06&09	45	41	39	33	22	18	11	32.0	1450
12&15	45	41	40	33	23	18	10	32.4	1449
18&21	44	41	40	33	23	18	8	32.6	1453
TOT	46	41	40	33	23	18	7	32.3	5808

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	14.4	25.1	28.1	27.0	80	1445
06&09	.0	4.2	14.0	26.4	26.3	29.2	81	1442
12&15	.0	4.4	14.7	24.9	26.0	30.0	81	1439
18&21	.0	3.7	15.6	26.5	26.6	27.6	81	1445
TOT	0	255	846	1485	1544	1641	81	5771

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1946-1972

AREA 0002 OSV BRAVO
56.5N 51.0W

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	05 OR	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	2	.0	*
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	2	.0	*
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	12	*	.2
6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	*	15	*	.2
5	.0	.0	.0	.0	.0	.0	.0	*	.3	.4	*	40	.1	.6
4	.0	.0	.0	.0	.0	.0	.0	*	.5	.3	.0	49	.1	.7
3	.0	.0	.0	.0	.0	.0	.0	*	1.9	.4	.0	138	.5	1.4
2	.0	.0	.0	.0	.0	.0	.0	.1	4.1	.1	.0	249	.4	3.9
1	.0	.0	.0	.0	.0	.0	.0	.7	4.5	.1	.0	309	.5	4.8
0	.0	.0	.0	.0	.0	.0	*	2.1	5.8	.1	.0	463	.3	7.7
-1	.0	.0	.0	.0	.0	.0	*	4.1	3.8	*	.0	459	.4	7.6
-2	.0	.0	.0	.0	.0	.0	.2	6.7	1.0	*	.0	454	.1	7.8
-3	.0	.0	.0	.0	.0	.0	.7	7.3	.4	.0	.0	483	*	8.3
-4	.0	.0	.0	.0	.0	.0	1.5	4.7	.2	.0	.0	366	*	6.3
-5	.0	.0	.0	.0	.0	.1	4.1	1.2	.1	.0	.0	373	.0	6.5
-6	.0	.0	.0	.0	.0	.2	5.3	.7	*	.0	.0	361	.0	6.3
-7/-8	.0	.0	.0	.0	*	2.5	7.3	.5	.0	.0	.0	598	*	10.3
-9/-10	.0	.0	.0	.0	.1	6.0	2.7	.1	.0	.0	.0	511	.0	8.9
-11/-13	.0	.0	.0	.0	1.4	6.5	.3	.0	.0	.0	.0	472	.0	8.2
-14/-16	.0	.0	.0	.2	3.6	.4	.0	.0	.0	.0	.0	244	.0	4.2
-17/-19	.0	.0	.0	1.6	.4	*	*	.0	.0	.0	.0	118	.0	2.0
-20/-22	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.0	33	.0	.6
-23/-25	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	9	.0	.2
-26/-30	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	10	.0	.2
TOTAL	?	6	18	130	324	901	1276	1688	1310	111	4	5770	148	5622
PCT	*	.1	.3	2.3	5.6	15.6	22.1	29.3	22.7	1.9	.1	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	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.1	.1	.0	.0	.0	.1
3-4	.0	.4	.4	.1	.0	.0	.9
5-6	.0	.1	.6	.2	.0	.0	1.0
7	.0	.1	1.5	.3	.0	.0	1.9
8-9	.0	.1	.5	.7	.0	.0	1.4
10-11	.0	.1	.3	1.5	*	.0	2.0
12	.0	.0	.1	.5	.4	.0	.9
13-16	.0	.0	.1	.9	.3	.0	1.3
17-19	.0	.0	.1	.4	.8	.1	1.3
20-22	.0	.0	*	.0	.2	.0	.2
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	.0	1.2	3.7	4.7	1.7	.1	11.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.1	.5	.3	.0	.0	.0	.9
3-4	.0	.3	.9	.1	.0	.0	1.2
5-6	.0	.2	.7	.2	.0	.0	1.1
7	.1	.1	1.0	.7	.1	.0	1.8
8-9	.0	.1	.6	.8	.1	.0	1.5
10-11	.0	.1	.4	1.0	.1	.0	1.5
12	.0	.0	.3	1.3	.4	.0	1.9
13-16	.0	.0	.1	.7	.5	.2	1.5
17-19	.0	.0	.0	.5	.7	.1	1.3
20-22	.0	.0	*	.1	.8	.1	1.1
23-25	.0	.0	.0	.0	.4	.1	.5
26-32	.0	.0	.0	.0	.2	.2	.3
33-40	.0	.0	.0	.0	.2	.1	.2
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	4.2	5.4	3.3	.7	15.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.4	*	.0	.0	.0	.5
1-2	.0	.1	.2	.0	.0	.0	.4
3-4	.0	.4	1.4	.1	.0	.0	1.9
5-6	.0	.2	1.4	.4	.0	.0	1.9
7	.0	.2	1.0	.6	.0	.0	1.8
8-9	.0	*	.4	1.1	.1	.0	1.8
10-11	.0	.0	.4	.8	.1	.0	1.7
12	.0	.1	.3	.4	.4	.0	1.1
13-16	.0	.0	.1	.6	.5	.0	1.2
17-19	.0	.0	.1	.3	.6	.0	1.0
20-22	.0	.0	.0	.1	.5	.2	.7
23-25	.0	.0	.0	.1	.1	.1	.2
26-32	.0	.0	.0	.0	.3	.1	.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	*	1.4	5.8	4.4	2.6	.3	14.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	*	*	.0	.0	.0	.1
1-2	.0	.3	.1	.0	.0	.0	.4
3-4	*	.2	.6	*	.0	.0	.8
5-6	.0	.0	.7	.1	*	.0	.8
7	.0	.0	.8	.2	.0	.0	1.0
8-9	.0	*	.0	.3	.0	.0	.3
10-11	.0	.1	.1	.3	.0	.0	.4
12	.0	.0	.2	.5	.1	.0	.9
13-16	.0	.0	*	.2	.3	.0	.4
17-19	.0	.1	.1	.1	.4	.0	.6
20-22	.0	.0	.0	.1	.3	.0	.3
23-25	.0	.0	.0	.0	.1	.0	.1
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	.1	.7	2.6	1.7	1.2	.0	6.3

MARCH

PERIOD: (OVER-ALL) 1963-1972 AREA 0002 OSV BRAVO

TABLE 18 (CONT) 96.5N 91.0W

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	*	.0	.0	.0	.5
1-2	.1	.3	.1	.0	.0	.0	.4
3-4	.1	.3	.4	.0	.0	.0	.8
5-6	.0	.1	.7	.1	*	.0	.8
7	.0	.1	.9	.1	.0	.0	1.0
8-9	.0	.0	.3	.9	.0	.0	1.2
10-11	.0	.0	.5	.9	*	.0	1.4
12	.0	.0	.1	.7	.2	.0	1.0
13-16	.0	.0	.1	.5	.3	.0	.9
17-19	.0	.0	.0	.1	.1	.0	.2
20-22	.0	.0	.0	.0	*	.0	*
23-25	.0	.0	.0	*	.1	.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	1.1	3.1	3.3	.9	.0	8.5

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	.2	.1	.0	.0	.0	.3
3-4	.0	.2	.5	.1	.0	.0	.8
5-6	.0	.2	.6	.1	.0	.0	.9
7	.0	.1	1.4	.7	.0	.0	2.2
8-9	.0	.1	.7	.4	.0	.0	1.2
10-11	.1	.0	.6	.8	*	.0	1.5
12	.0	.0	.2	.7	*	.0	.9
13-16	.0	.0	.1	.8	.3	.0	1.2
17-19	.0	.0	.0	.2	.1	.1	.3
20-22	.0	.0	.0	.0	*	.0	*
23-25	.0	.0	.0	.1	.1	.1	.3
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	.1	1.1	4.3	3.7	.7	.1	9.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.0	.0	.0	.0	.6
1-2	.1	.3	.0	.0	.0	.0	.4
3-4	.0	.2	.3	*	.0	.0	.5
5-6	.0	.4	.9	.2	.0	.0	1.4
7	.0	.1	.8	.5	.0	.0	1.3
8-9	.0	.1	1.2	.6	*	.0	2.0
10-11	.0	.0	.7	1.0	.0	.0	1.8
12	.0	.0	.3	1.4	.3	.0	2.0
13-16	.0	.0	.2	1.4	.4	.0	2.0
17-19	.0	.0	.0	.3	.3	.0	.7
20-22	.0	.0	.0	.1	.7	.2	1.0
23-25	.0	.0	.0	.0	.5	.2	.8
26-32	.0	.0	.0	.0	.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	.1	1.7	4.4	5.4	2.1	.4	14.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	*	.3	.0	.0	.0	.0	.4	
1-2	.0	.1	.1	.0	.0	.0	.1	
3-4	.0	.5	1.1	.0	.0	.0	1.5	
5-6	.0	.3	.8	.3	.0	.0	1.4	
7	.0	.1	1.6	.7	.0	.0	2.3	
8-9	.0	.1	.9	.6	*	.0	1.7	
10-11	.0	.0	.2	1.1	2.0	.2	.0	3.5
12	.0	.0	.4	1.9	.2	.0	2.4	
13-16	.0	.0	.5	2.1	.8	.0	3.4	
17-19	.0	.0	.0	.7	1.1	.0	1.8	
20-22	.0	.0	.0	.1	.3	*	.4	
23-25	.0	.0	.0	.1	.2	.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	*	1.6	6.4	8.4	2.7	*	19.3	99.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.0	2.6	.1	.0	.0	.0	3.8	
1-2	.2	2.0	.9	.0	.0	.0	3.0	
3-4	.1	2.4	5.6	.4	.0	.0	8.5	
5-6	.0	1.4	8.3	1.4	.1	.0	9.3	
7	.1	.6	9.0	3.6	.1	.0	13.4	
8-9	.0	.5	4.9	5.4	.2	.0	10.9	
10-11	.1	.4	4.4	8.9	.4	.0	13.6	
12	.0	.1	2.0	7.4	1.9	.0	11.3	
13-16	.0	.0	1.1	7.3	3.3	.2	11.9	
17-19	.0	.1	.2	2.9	4.3	.2	7.2	
20-22	.0	.0	.1	.5	2.8	.5	3.8	
23-25	.0	.0	.0	.2	1.5	.4	2.1	
26-32	.0	.0	.0	.0	.6	.4	1.0	
33-40	.0	.0	.0	.0	.2	.1	.2	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	10.2	34.5	37.0	15.3	1.6	100.0	1891

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	3.1	2.7	1.0	.3	.4	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	463	5
6-7	.0	*	1.6	2.9	7.1	5.3	4.6	2.1	1.8	.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	1458	8
8-9	.0	.0	.5	1.0	3.1	5.1	7.5	6.6	6.8	3.2	1.3	.7	.1	.0	.0	.0	.0	.0	.0	1987	12
10-11	.0	.0	.1	.6	.6	1.2	2.4	1.6	3.4	3.2	2.4	1.7	.7	.1	.0	.0	.0	.0	.0	988	15
12-13	.0	.0	.0	.1	.0	*	.5	.3	.6	.6	1.1	.6	1.4	.0	.0	.0	.0	.0	.0	276	20
>13	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	.1	*	.2	.0	.0	.0	.0	.0	.0	23	23
INDFT	.5	.5	1.5	.8	1.2	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	315	9
TOTAL	29	44	372	438	718	717	865	599	702	414	278	179	133	4	0	0	0	0	0	5510	11
PCT	.5	1.2	6.8	7.9	13.0	13.0	15.7	10.9	12.7	7.5	5.0	3.2	2.4	.1	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1946-1972

AREA 0002 OSV PRAYN
56.4N 51.0W

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 NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	8.0	1.0	.6	.1	20.0	.0	.1	28.6	4.3	.0	1.7	.1	•	•	.0	65.2
NE	19.3	2.4	2.1	.0	13.4	.1	.1	43.6	3.1	.0	5.0	.1	.1	.0	.0	56.0
E	23.0	1.6	4.3	.0	12.3	.0	.1	47.9	2.7	.0	9.0	.0	.3	.0	.0	50.1
SE	16.8	1.6	4.2	.3	12.4	.0	.1	43.1	3.7	.0	12.3	.3	.1	.0	.0	50.5
S	9.2	1.0	2.5	.0	12.8	.4	.4	26.5	5.1	.0	6.1	.0	.1	.0	.0	64.2
SW	6.4	1.3	1.3	.0	17.3	.1	.3	25.6	6.3	.0	2.6	.4	.2	.1	.0	65.0
W	3.1	1.0	1.0	.2	28.0	.1	.9	33.4	8.8	.0	.2	.1	.0	.2	.0	57.3
NW	2.7	1.2	.3	•	28.9	.2	.7	32.8	5.8	.0	.6	.0	.1	.1	.0	60.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.7	2.2	.0	.0	11.1	.0	.0	17.8	11.1	.0	2.2	.0	.0	.0	.0	68.9
TOT PCT	10.2	1.4	1.7	.1	19.3	.1	.3	31.5	5.1	.0	3.8	.1	.1	.1	.0	59.6
TOT OBS:	9820															

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 NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00609	11.2	1.5	2.1	.1	19.8	.1	.4	33.9	4.4	.0	2.9	.0	.2		.0	58.8
06609	10.7	1.5	2.1	.0	20.4	.1	.3	33.2	4.8	.0	3.8	.1	.0		.1	58.8
12615	9.8	1.4	1.2	.1	19.4	.1	.3	30.9	5.9	.0	4.7	.1	.2		.1	58.1
18621	9.1	1.2	1.4	.1	19.0	.1	.3	29.7	5.3	.0	3.6	.2	.1		.1	60.9
TOT PCT	10.2	1.4	1.7	.1	19.7	.1	.3	31.9	5.1	.0	3.8	.1	.1		.1	59.0
TOT OBS:	9857															

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	3.1	7.1	8.2	1.5	.2		18.2	20.2	17.3	18.6	17.3	19.2	18.8	17.6	18.7	18.5
NE	.2	2.3	4.4	4.6	1.6	.1		13.0	20.0	12.0	12.7	13.5	13.4	13.3	12.8	12.5	13.4
E	.3	1.8	3.9	3.7	1.8	.1		11.5	21.5	11.7	11.3	11.0	10.9	11.9	12.2	11.8	11.4
SE	.2	1.8	3.0	1.3	.5	•		6.9	16.9	7.2	7.1	6.7	7.4	6.3	7.3	6.7	7.4
S	.2	1.8	4.4	2.8	.4	.1		9.5	18.3	8.7	9.9	10.3	9.8	10.8	9.8	8.5	9.2
SW	.1	1.9	4.6	2.5	.6	•		9.8	17.9	10.6	9.8	9.9	8.3	9.4	9.7	11.3	9.3
W	.3	2.3	5.0	3.4	1.1	.2		12.6	19.7	12.7	12.2	13.3	12.1	11.9	12.7	13.4	12.4
NW	.3	2.0	7.1	8.5	1.7	.2		17.8	20.7	19.0	17.6	16.2	18.2	16.4	17.5	16.7	18.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0	.3	.7	.8	1.1	1.2	.7	.5	.8
TOT OBS	147	1043	2903	1797	538	47	5834		19.7	731	719	734	739	732	726	733	726
TOT PCT	2.5	17.9	39.9	30.1	9.2	.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	1.1	6.0	6.9	3.7	.4		18.2	20.2	17.9	18.2	18.2	18.5
NE	1.1	3.8	4.4	3.3	.4		13.0	20.0	12.8	13.4	13.1	12.5
E	1.0	3.4	3.6	3.1	.5		11.5	21.5	11.5	10.8	12.0	11.7
SE	1.0	2.8	2.1	.8	.1		6.9	16.9	7.1	6.5	6.8	7.0
S	.9	3.5	3.7	1.3	.1		9.5	18.3	9.1	10.1	10.1	8.8
SW	.8	4.0	3.5	1.3	.1		9.8	17.9	10.2	9.1	9.6	10.3
W	.9	4.6	4.4	2.2	.5		12.6	19.7	12.4	12.7	12.3	12.9
NW	1.0	5.6	6.8	3.7	.7		17.8	20.7	18.3	18.2	16.9	17.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.8						.8	.0	.5	1.0	1.0	.7
TOT OBS	499	1967	2071	1133	164	5834		19.7	1450	1467	1448	1469
TOT PCT	8.6	33.7	35.5	19.4	2.8		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1946-1972

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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
00603	.9	1.6	20.1	39.3	28.1	9.6	.8	19.4	100.0	1450
06609	1.0	2.4	18.3	39.1	28.4	10.0	.9	19.5	100.0	1467
12615	1.0	1.4	16.2	40.3	31.2	9.0	1.0	20.0	100.0	1450
18621	.7	1.6	16.9	39.1	32.7	8.3	.6	19.8	100.0	1459
TOT	45	102	1043	2302	1757	538	47	19.7		5834
PCT	.8	1.7	17.9	39.5	30.1	9.2	.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	.6	.6	4.8	12.2		7.2
NE	.4	.6	2.6	9.6		7.3
E	.3	.5	1.7	9.0		7.4
SE	.3	.2	1.3	5.1		7.2
S	.0	.5	2.0	6.1		6.7
SW	.9	.6	2.7	5.4		6.6
W	.9	.9	5.2	5.6		6.5
NW	.5	.8	6.1	10.4		7.0
VAR	.0	.0	.0	.0		.0
CALM	*	.1	.2	.5		7.0
TOT OBS	285	272	1533	3735	5825	7.0
TOT PCT	4.9	4.7	26.3	64.1	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	.4	.0	.1	1.6	9.4	7.5	.7	.1	.1	.1	2.2	
NE	.6	.0	.3	1.7	4.0	3.7	.4	.1	.1	.1	1.9	
E	.9	*	.6	1.8	3.2	2.4	.5	.1	.1	.1	1.8	
SE	.6	*	.3	.9	1.8	1.4	.3	.1	.1	.1	1.4	
S	.5	*	.3	.7	2.3	1.9	.3	.1	.2	.3	3.0	
SW	.2	*	.2	.6	2.8	2.7	.2	.1	.2	.1	2.7	
W	.2	.0	.1	.6	4.3	4.5	.2	*	.1	*	2.7	
NW	.2	.0	.1	.9	6.1	7.5	.6	*	*	*	2.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	*	*	.2	.3	.1	.0	.0	.0	.1	
TOT OBS	214	8	118	504	1751	1801	189	35	51	47	1050	5825
TOT PCT	3.7	.1	2.0	8.7	30.1	31.9	3.2	.6	.9	.8	18.0	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	1.6	1.7	1.7	1.7	1.7	1.7	1.7
* OR >5000	1.3	2.2	2.3	2.3	2.3	2.3	2.3	2.3
* OR >3500	3.5	5.4	5.5	5.5	5.5	5.5	5.5	5.5
* OR >2000	22.2	36.5	37.3	37.4	37.5	37.5	37.5	37.5
* OR >1000	30.7	62.7	66.3	67.2	67.5	67.6	67.6	67.6
* OR >600	31.2	67.3	73.4	75.4	76.0	76.2	76.3	76.3
* OR >300	31.3	68.0	74.8	77.2	78.0	78.2	78.3	78.3
* OR >150	31.3	68.0	74.8	77.2	78.0	78.3	78.4	78.4
* OR > 0	31.3	68.0	75.0	77.7	79.8	80.8	81.9	82.0
TOTAL	1834	3987	4399	4557	4680	4742	4806	4813

TOTAL NUMBER OF OBS: 5866 PCT FREQ NH <5/8: 18.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.5	2.2	4.9	4.4	3.0	5.0	14.1	10.9	47.5	3.5	587

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PERIOD: (PRIMARY) 1952-1972
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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
	PCP	.2	.2	.2	.1	.1	.1	.1	.1	.0	.0	1.2	
<1/2	NO PCP	.1	.1	.2	.3	.3	.1	*	.0	.0	.0	1.1	
	TOT %	.3	.3	.4	.5	.4	.2	.1	.1	.0	.0	2.3	
	PCP	.2	.3	.4	.2	.1	.1	.2	.2	.0	.0	1.5	
1/2<1	NO PCP	*	.1	.2	.1	.1	*	.0	.0	.0	.0	.6	
	TOT %	.2	.4	.6	.3	.1	.1	.2	.2	.0	.0	2.1	
	PCP	.2	.4	.6	.3	.2	.1	.2	.2	.0	*	2.2	
1<2	NO PCP	*	.1	.2	.1	.1	*	*	*	.0	*	.6	
	TOT %	.2	.4	.8	.3	.4	.1	.2	.2	.0	*	2.8	
	PCP	.9	1.1	1.0	.6	.5	.4	.5	1.0	.0	.1	5.9	
2<5	NO PCP	.1	.3	.3	.2	.1	.1	*	.1	.0	.0	1.3	
	TOT %	1.0	1.3	1.3	.8	.6	.5	.5	1.0	.0	.1	7.2	
	PCP	3.1	2.6	2.0	1.0	1.2	1.5	2.6	3.4	.0	.1	17.4	
5<10	NO PCP	4.4	3.2	2.7	1.6	2.3	2.1	3.1	4.8	.0	.2	24.5	
	TOT %	7.5	5.8	4.7	2.6	3.5	3.6	5.7	8.2	.0	.3	41.9	
	PCP	.6	.1	.2	.2	.2	.4	.6	.9	.0	.0	3.2	
10+	NO PCP	8.3	4.6	3.4	2.2	4.4	4.9	5.7	7.1	.0	.4	40.4	
	TOT %	8.9	4.7	3.6	2.3	4.6	5.3	5.8	8.0	.0	.4	43.6	
	TOT OBS												5821
	TOT PCT	18.2	12.9	11.5	6.8	9.6	9.8	12.6	17.8	.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
	0-3		.0	.0	.0	.0	.0	*	*	.0	.0	.1	
<1/2	4-10	*	.1	.1	.1	*	*	*	*	.0		.3	
	11-21	*	.2	.2	.3	.2	.1	.1	*	.0		1.0	
	22+	.2	.1	.1	.1	.2	.1	.1	.1	.0		.9	
	TOT %	.3	.3	.4	.5	.4	.2	.1	.1	.0	.0	2.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
1/2<1	4-10	.0	.1	.1	.1	*	.0	.0	.0	.0		.2	
	11-21	*	.1	.2	.1	.1	*	*	.1	.0		.7	
	22+	.1	.2	.4	.1	.1	.1	.2	.1	.0		1.2	
	TOT %	.2	.4	.6	.3	.1	.1	.2	.2	.0	.0	2.1	
	0-3	*	*	*	.0	.0	.0	.0	.0	.0	*	.1	
1<2	4-10	*	*	.1	*	*	*	.1	*	.0		.3	
	11-21	*	.1	.2	.2	.1	.1	.1	*	.0		.8	
	22+	.2	.3	.6	.1	.2	.1	.1	.2	.0		1.6	
	TOT %	.3	.4	.8	.3	.4	.1	.2	.2	.0	*	2.8	
	0-3	.0	.0	*	*	*	.0	*	*	.0	.1	.1	
2<5	4-10	.1	.2	.1	.1	*	.1	.1	.2	.0		.7	
	11-21	.2	.3	.4	.4	.2	.2	.2	.2	.0		2.0	
	22+	.7	.9	.8	.4	.3	.3	.3	.8	.0		4.4	
	TOT %	1.0	1.3	1.3	.8	.6	.5	.5	1.0	.0	.1	7.2	
	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.3	1.1	
5<10	4-10	1.1	.8	.5	.6	.7	.7	.7	1.0	.0		6.1	
	11-21	2.7	1.8	1.4	1.1	1.4	1.5	1.8	2.6	.0		14.2	
	22+	3.6	3.1	2.8	.9	1.3	1.4	3.0	4.4	.0		20.5	
	TOT %	7.5	5.7	4.7	2.6	3.5	3.6	5.7	8.2	.0	.3	41.8	
	0-3	.1	.1	.2	.1	.1	.1	.1	.1	.0	.4	1.1	
10+	4-10	1.8	1.2	.9	1.0	.9	1.2	1.5	1.8	.0		10.3	
	11-21	4.0	1.8	1.6	1.1	2.4	2.8	2.7	4.2	.0		20.7	
	22+	3.0	1.6	.9	.2	1.2	1.2	1.5	1.9	.0		11.6	
	TOT %	9.0	4.7	3.6	2.3	4.6	5.3	5.8	8.0	.0	.4	43.7	
	TOT OBS												5833
	TOT PCT	18.2	12.9	11.5	6.9	9.5	9.8	12.6	17.8	.0	.8	100.0	

APRIL

PERIOD: (PRIMARY) 1952-1972
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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	3.1	.0	2.4	9.1	28.5	33.2	3.1	.8	1.2	.6	81.9	18.1	1466
06&09	3.7	.1	1.7	7.8	30.7	33.9	3.1	.7	.6	1.1	83.4	16.6	1471
12&15	3.7	.1	2.4	9.3	30.9	30.8	2.7	.6	.6	.6	81.7	18.3	1467
18&21	4.3	.1	1.6	8.2	30.3	30.1	4.0	.3	1.1	.9	81.0	19.0	1467
TOT	216	5	118	506	1769	1878	189	35	51	47	4814	1057	5871
PCT	3.7	.1	2.0	8.6	30.1	32.0	3.2	.6	.9	.8	82.0	18.0	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	2.3	1.6	2.9	7.5	44.5	41.2	1466
06&09	2.7	1.6	2.4	6.7	46.0	40.8	1471
12&15	1.7	2.9	3.2	7.6	39.8	44.8	1469
18&21	2.6	2.5	2.7	6.9	37.8	47.4	1469
TOT	135	125	165	422	2470	2558	5875
PCT	2.3	2.1	2.8	7.2	42.0	43.5	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 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	3.1	6.3	20.1	62.5	17.4	1465
06&09	3.7	6.2	18.7	64.9	16.4	1470
12&15	3.7	7.2	20.8	61.1	18.2	1465
18&21	4.3	7.0	19.2	62.1	18.6	1466
TOT	217	391	1195	3676	1035	5866
PCT	3.7	6.7	19.7	62.7	17.6	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
45/49	.0	.0	.0	.0	.0	*	.0	.0	1	*
40/44	.0	.0	.0	.1	.4	.6	2.8	3.5	430	7.4
35/39	.0	.0	.2	1.0	4.6	11.2	15.1	19.6	2990	51.7
30/34	.0	*	.1	1.5	6.8	8.9	7.2	5.4	1733	30.0
25/29	.0	.0	*	.6	2.3	3.3	1.9	.9	519	9.0
20/24	.0	.0	.0	.2	.3	.5	.5	.2	97	1.7
15/19	.0	.0	.0	.1	.1	.1	*	.0	14	.2
TOTAL	0	1	18	197	842	1421	1588	1717	5784	100.0
PCT	.0	*	.3	3.4	14.6	24.6	27.5	29.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	*	.0	.0	.0	.0	.0
.5	1.5	1.8	1.1	1.1	.8	.4	.1	.0	*
9.5	8.0	8.0	4.4	6.1	4.6	3.9	6.6	.0	.5
6.8	3.0	1.6	1.1	2.0	3.0	4.5	7.8	.0	.3
1.5	.4	.1	.2	.2	1.0	2.6	2.9	.0	.0
*	*	.0	*	.1	.3	.8	.3	.0	*
*	.0	.0	.0	.0	*	.2	*	.0	.0
18.3	12.9	11.5	6.9	9.5	9.8	12.4	17.7	.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	43	40	39	35	27	21	16	34.4	1465
06&09	43	40	39	35	27	21	17	34.1	1471
12&15	44	41	40	36	27	23	18	35.0	1470
18&21	46	42	40	36	28	23	16	35.2	1468
TOT	46	41	40	35	27	22	16	34.7	5874

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	3.4	15.2	22.9	26.5	31.9	81	1456
06&09	.0	3.4	13.0	24.2	29.5	29.9	81	1459
12&15	.0	4.0	15.2	24.8	26.5	29.6	81	1458
18&21	.0	4.1	14.8	26.4	27.3	27.5	80	1453
TOT	0	217	848	1432	1598	1791	81	5826

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1946-1972

AREA 0002 OSV BRAVO
56.4N 51.0W

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	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.0	*	*	*	.0	4	.0	.1
6	.0	.0	.0	.0	.0	.0	.1	.2	*	14	*	.2
5	.0	.0	.0	.0	.0	.0	.3	.3	.0	35	.1	.5
4	.0	.0	.0	.0	.0	.1	1.0	.5	.0	94	.1	1.5
3	.0	.0	.0	.0	.0	.2	1.7	.7	.0	153	.2	2.4
2	.0	.0	.0	.0	.0	.9	4.6	.4	.0	310	.7	4.7
1	.0	.0	.0	.0	.0	.2	7.7	.1	.0	467	.8	7.2
0	.0	.0	.0	.0	.0	1.4	7.9	.1	.0	550	.6	8.8
-1	.0	.0	.0	.0	.1	3.4	7.5	*	.0	651	.6	10.6
-2	.0	.0	.0	.0	.1	6.7	2.9	.0	.0	568	.3	9.4
-3	.0	.0	.0	.0	.2	8.6	1.2	.0	.0	587	.2	9.9
-4	.0	.0	.0	.0	.7	7.2	.4	.0	.0	483	.1	8.2
-5	.0	.0	.0	.0	1.9	5.8	.1	.0	.0	454	.1	7.7
-6	.0	.0	.0	*	4.8	1.6	.0	.0	.0	375	*	6.4
-7/-8	.0	.0	.0	.3	7.3	.9	.0	.0	.0	484	.0	8.3
-9/-10	.0	.0	.0	2.7	2.5	*	.0	.0	.0	304	.0	5.2
-11/-13	.0	.0	.2	3.0	*	.1	.0	.0	.0	198	*	3.4
-14/-16	.0	*	1.2	.1	*	.0	.0	.0	.0	79	.0	1.4
-17/-19	.0	.2	.2	.0	*	.0	.0	.0	.0	26	.0	.4
-20/-22	*	.1	.0	.0	.0	.0	.0	.0	.0	7	.0	.1
TOTAL	2	20	94	361	1025	2134	2072	134	1	5843	218	5625
PCT	*	.3	1.6	6.2	17.5	36.5	35.5	2.3	*	100.0	3.7	96.3

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	*	.7	.0	.0	.0	.0	.7
1-2	.0	.8	.4	.0	.0	.0	1.2
3-4	.0	.5	1.4	*	.0	.0	2.0
5-6	.0	.3	1.8	.3	.0	.0	2.4
7	.0	.7	1.6	1.0	.0	.0	3.4
8-9	.0	.1	1.1	1.2	.1	.0	2.5
10-11	.0	.0	.6	1.0	.1	.0	1.8
12	.0	.0	.0	1.7	.1	.0	1.8
13-16	.0	.0	*	.9	.3	.0	1.3
17-19	.0	.0	*	.1	.5	.0	.7
20-22	.0	.0	.0	.1	.4	*	.5
23-25	.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	*	3.1	7.0	6.5	1.6	.1	18.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5
1-2	.0	.5	.2	.0	.0	.0	.7
3-4	.0	.4	.7	*	.0	.0	1.1
5-6	.0	.3	.9	.2	.0	.0	1.4
7	.0	.1	1.1	1.0	.0	.0	2.2
8-9	.0	.0	.4	.7	.0	.0	1.1
10-11	.0	.0	.4	.9	.1	.0	1.4
12	.0	.0	.2	1.1	.2	.0	1.5
13-16	.0	.0	.1	.5	.5	.0	1.0
17-19	.0	.0	.0	.2	.5	.0	.7
20-22	.0	.0	.1	.1	.1	*	.3
23-25	.0	.0	.0	.1	.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	.1	1.6	4.1	4.7	1.4	*	11.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6
1-2	.0	.1	.1	.0	.0	.0	.2
3-4	.0	.2	.6	.0	.0	.0	.8
5-6	.0	.2	.6	.3	.0	.0	1.1
7	.0	.1	.6	.7	.0	.0	1.4
8-9	.0	.0	.3	.6	.0	.0	.8
10-11	.0	.0	*	.4	.1	.0	.5
12	.0	*	.1	.4	.1	.0	.6
13-16	.0	.0	.1	.7	.5	.0	1.3
17-19	.0	.0	.0	.4	1.3	.0	1.7
20-22	.0	.0	.0	*	.4	.1	.5
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	.2	1.1	2.4	3.5	2.4	.1	9.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.3	.1	.0	.0	.0	.4
1-2	.0	.5	.2	.0	.0	.0	.7
3-4	.0	.5	1.0	*	.0	.0	1.6
5-6	.0	.2	.5	.1	.0	.0	.8
7	.0	.1	.4	.3	.0	.0	.8
8-9	.0	.0	.4	.3	.0	.0	.7
10-11	*	.1	.6	.2	.1	.0	.9
12	.0	*	.1	.2	.1	.0	.4
13-16	.0	.0	.1	.4	.4	.0	.8
17-19	.0	.0	.0	.1	.2	.1	.3
20-22	.0	.0	.0	*	.1	.0	.1
23-25	.0	.0	.0	.0	.1	.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	*	1.7	3.4	1.5	.8	.1	7.5

APRIL

PERIOD: (OVER-ALL) 1963-1972 AREA 0002 OSV BRAVO

TABLE 18 (CONT) 56.4N 51.0W

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	.1	.5	.3	.0	.0	.0	.8
3-4	.0	.6	1.6	.1	.0	.0	2.3
5-6	.0	.1	.8	.3	.0	.0	1.2
7	.0	.1	1.1	.5	.0	.0	1.7
8-9	.0	.2	.9	.5	.0	.0	1.6
10-11	*	*	.3	.7	.0	.0	1.1
12	.0	.0	.2	.4	.1	.0	.7
13-16	.0	.0	.1	.3	.3	.0	.6
17-19	.0	.0	.0	.2	*	.0	.3
20-22	.0	.0	.0	.1	*	.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	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	1.8	5.3	3.1	.4	.1	10.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5
1-2	.1	.4	.4	.0	.0	.0	.8
3-4	*	.7	.8	.1	.0	.0	1.5
5-6	.0	.2	2.0	.3	.0	.0	2.4
7	.0	*	1.1	.3	.0	.0	1.5
8-9	.0	.0	.7	.3	.0	.0	.9
10-11	.0	.1	.4	.7	.1	.0	1.2
12	.0	.0	.1	.5	.1	.0	.6
13-16	.0	.0	.1	.4	.2	.0	.7
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	*	*
33-40	.0	.0	.0	.0	.2	.0	.2
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	1.7	5.4	2.7	.7	*	10.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.0	.0	.0	.0	.6
1-2	.0	.5	.1	.0	.0	.0	.6
3-4	.1	.7	1.1	*	.0	.0	2.0
5-6	.0	.1	1.5	.2	.0	.0	1.7
7	.0	.2	1.0	.2	.0	.0	1.4
8-9	.0	.1	.5	.6	.1	.0	1.3
10-11	.0	*	.5	.9	*	.0	1.5
12	.0	.0	.3	.8	.1	.0	1.2
13-16	.0	.0	.2	.8	.4	.1	1.4
17-19	.0	.0	.0	.3	.2	*	.5
20-22	.0	.0	.0	.2	.7	.1	.9
23-25	.0	.0	.0	.0	*	*	*
26-32	.0	.0	.0	.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	.2	2.2	5.3	3.8	1.5	.2	13.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.5	.0	.0	.0	.0	.5	
1-2	.0	.4	.1	.0	.0	.0	.5	
3-4	.1	.8	1.1	.0	.0	.0	2.0	
5-6	.0	.6	1.2	.2	.1	.0	2.0	
7	.0	.6	3.1	.6	.0	.0	4.3	
8-9	.0	*	.9	.9	.1	.0	1.9	
10-11	.0	.1	.3	.5	.2	.0	1.1	
12	.0	.0	.3	1.0	.2	.0	1.5	
13-16	.0	.0	.1	2.1	.3	.1	2.5	
17-19	.0	.0	*	.1	.2	*	.3	
20-22	.0	.0	.0	.1	.5	.1	.7	
23-25	.0	.0	.0	.1	.1	*	.2	
26-32	.0	.0	.0	.0	.2	*	.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	3.0	7.1	5.5	1.7	.1	17.6	99.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.9	3.6	.1	.0	.0	.0	4.5	
1-2	.2	3.6	1.8	.0	.0	.0	5.5	
3-4	.3	4.4	8.3	.3	.0	.0	13.3	
5-6	.1	2.0	9.3	1.7	.1	.0	13.1	
7	.2	2.0	10.2	4.7	.0	.0	16.9	
8-9	.0	.3	5.1	4.0	.3	.0	10.8	
10-11	.1	.3	3.1	4.3	.7	.0	9.4	
12	.0	.1	1.2	6.2	.9	.0	8.3	
13-16	.0	.0	.6	6.0	2.8	.1	9.5	
17-19	.0	.0	.1	1.3	3.1	.1	4.5	
20-22	.0	.0	.1	.6	2.3	.2	3.1	
23-25	.0	.0	.0	.2	.2	.1	.5	
26-32	.0	.0	.0	.0	.2	.2	.4	
33-40	.0	.0	.0	.0	.2	.0	.2	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	16.2	39.7	31.3	10.6	.7	100.0	1990

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	4.2	4.7	4.4	1.4	.7	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	885	5
6-7	.0	*	2.0	5.3	8.9	7.0	5.7	3.2	1.6	.6	.1	*	.0	.0	.0	.0	.0	.0	.0	1831	8
8-9	.0	.0	.3	1.5	3.2	4.1	5.7	5.6	5.2	2.2	1.0	.5	.2	.1	.0	.0	.0	.0	.0	1574	11
10-11	.0	*	.1	.5	.9	1.0	.9	.8	2.0	2.0	1.1	.6	.6	*	.0	.0	.0	.0	.0	568	14
12-13	.0	.0	.1	.1	.3	.2	.1	.1	.2	.3	.2	.1	.4	.0	.0	.0	.0	.0	.0	112	16
>13	.0	.0	.0	*	*	.0	.0	*	.1	.1	.1	*	*	.0	.0	.0	.0	.0	.0	21	16
INDET	.2	.4	1.5	1.5	.8	.6	.7	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	314	6
TOTAL	12	87	438	723	984	757	735	528	488	278	135	69	66	9	0	0	0	0	0	5305	9
PCT	.2	1.6	8.3	13.6	18.5	14.3	13.9	10.0	9.2	5.2	2.5	1.3	1.2	.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1948-1972

AREA 0002 OSV BRAVO
56.5N 51.0W

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 SNOW BLWG	NO SIG WEA
N	11.0	2.3	1.8	.0	8.8	.1	.0	23.4	4.2	.0	2.2	.1	.0	.0		70.2
NE	18.0	2.6	3.7	.0	6.9	.0	.0	29.1	3.0	.0	9.3	.2	.1	.0		58.4
E	25.1	1.6	7.3	.0	2.7	.1	.0	36.2	4.1	.0	14.9	.3	.3	.0		44.2
SE	20.6	1.7	9.2	.0	2.5	.0	.0	33.5	3.2	.0	14.3	.6	.0	.0		48.4
S	13.3	1.5	3.7	.0	3.4	.0	.1	22.1	3.0	.0	13.9	.2	.1	.0		60.6
SW	7.0	1.6	1.9	.0	6.6	.0	.0	17.0	3.1	.0	8.5	.2	.0	.0		71.2
W	4.7	2.4	1.3	.0	10.3	.2	.3	18.5	6.9	.0	2.7	.3	.0	.0		71.5
NW	4.4	2.9	.9	.0	13.2	1.0	.4	22.1	6.1	.0	.5	.1	.0	.0		71.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	5.7	1.1	3.4	.0	4.6	.0	.0	14.9	4.6	.0	9.2	1.1	1.1	.0		69.0
TOT PCT	12.7	2.1	3.7	.0	7.0	.2	.1	25.2	4.3	.0	8.0	.3	.1	.0		62.2
TOT OBS:	5849															

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 SNOW BLWG	NO SIG WEA
00&03	13.5	2.2	4.3	.0	6.2	.2	.2	26.0	4.2	.0	7.1	.1	.1	.0		62.4
06&09	14.8	2.5	4.2	.0	8.6	.1	.1	29.2	4.5	.0	7.6	.2	.0	.0		58.5
12&15	12.6	2.0	2.8	.0	7.7	.2	.1	24.9	4.9	.0	8.1	.3	.1	.0		61.6
18&21	10.0	1.8	3.3	.0	5.8	.4	.1	20.7	3.5	.0	9.1	.3	.1	.0		66.2
TOT PCT	12.7	2.1	3.7	.0	7.1	.2	.1	25.2	4.3	.0	8.0	.3	.1	.0		62.2
TOT OBS:	5855															

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	5.8	2.9	.5	.1		12.6	17.0	14.0	13.3	11.9	13.1	12.6	11.5	11.2	13.3
NE	.3	2.5	5.0	2.6	.6	*		11.1	17.2	10.3	10.0	10.7	11.3	11.6	12.5	11.6	10.5
E	.4	2.8	5.0	3.3	1.5	*		13.0	18.9	12.5	13.1	12.7	13.6	13.6	13.6	12.8	12.3
SE	.3	2.8	5.3	2.9	.4	*		11.7	16.7	11.9	12.3	11.0	11.5	11.9	11.5	11.9	11.9
S	.4	2.6	5.9	3.0	.3	*		12.2	16.6	13.1	12.4	12.8	10.9	12.6	12.2	11.6	12.1
SW	.3	2.9	4.7	1.5	.3	*		9.8	15.1	9.3	9.8	9.4	10.6	9.5	9.6	9.8	10.3
W	.3	3.2	5.0	2.3	.4	*		11.2	15.8	10.4	10.8	12.6	10.8	11.5	11.8	11.2	10.6
NW	.2	3.3	8.0	4.7	.6	*		16.9	17.8	17.0	16.7	17.0	17.1	15.2	15.9	18.3	17.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0	1.6	1.5	1.9	1.1	1.5	1.4	1.5	1.4
TOT OBS	239	1361	2618	1367	269	16	5870		16.7	734	736	733	733	733	731	738	732
TOT PCT	4.1	23.2	44.6	23.3	4.6	.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	1.2	5.2	4.9	1.1	.2		12.6	17.0	13.7	12.5	12.0	12.2
NE	1.2	4.4	3.7	1.6	.1		11.1	17.2	10.1	11.0	12.1	11.1
E	1.3	5.0	3.9	2.6	.3		13.8	18.9	12.8	13.1	13.6	12.6
SE	1.4	4.8	4.3	1.1	.1		11.7	16.7	12.1	11.3	11.7	11.9
S	1.3	5.1	4.8	.9	.1		12.2	16.6	12.8	11.8	12.4	11.8
SW	1.2	4.9	3.0	.6	.1		9.8	15.1	9.5	10.0	9.6	10.1
W	1.5	5.2	3.3	1.2	.1		11.2	15.8	10.6	11.7	11.6	10.9
NW	1.2	6.7	6.9	2.0	.1		16.9	17.8	16.9	17.0	15.6	18.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	1.6	1.5	1.4	1.4
TOT OBS	696	2424	2041	650	59	5870		16.7	1470	1466	1464	1470
TOT PCT	11.9	41.3	34.8	11.1	1.0		100.0		100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1948-1972

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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	1.6	3.0	24.6	43.3	22.7	4.6	.3	16.6	100.0	1470
06&09	1.5	2.6	23.2	44.0	24.3	4.4	.1	16.7	100.0	1466
12&15	1.4	2.7	22.6	45.2	23.3	4.6	.1	16.8	100.0	1464
18&21	1.4	2.0	22.4	45.9	22.9	4.8	.6	17.0	100.0	1470
TOT	87	152	1361	2618	1367	269	16	16.7		5870
PCT	1.5	2.6	23.2	44.6	23.3	4.6	.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	.4	2.9	8.4		7.0
NE	.7	.3	2.5	7.7		7.1
E	.5	.2	1.8	10.5		7.4
SE	.6	.2	1.6	9.3		7.4
S	1.0	.3	2.6	8.3		7.0
SW	1.3	.5	2.6	5.4		6.5
W	.7	.6	3.9	6.0		6.8
NW	.5	.7	5.1	10.6		7.1
VAR	.0	.0	.0	.0		.0
CALM	.2	.1	.4	.8		6.6
TOT OBS	367	186	1375	3939	5867	7.0
TOT PCT	6.3	3.2	23.4	67.1	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	.2	.0	.2	1.0	4.7	9.7	.5	*	.1	*	2.3	
NE	.5	*	.4	1.4	4.4	1.7	.2	.1	.1	.2	2.1	
E	1.3	.1	1.2	2.2	4.1	1.5	.3	.2	.2	.2	1.9	
SE	1.9	*	.8	1.4	3.1	1.5	.3	.2	.1	.3	2.2	
S	1.5	.1	.7	1.2	2.8	1.8	.2	.1	.1	.9	2.9	
SW	.5	*	.4	.7	2.2	2.1	.1	*	.1	.6	3.1	
W	.2	.0	.2	.6	4.4	3.2	.3	.1	.1	.1	2.2	
NW	.1	.0	.1	.6	7.1	5.8	.7	*	*	*	2.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.1	.1	.4	.3	*	*	.1	.1	.4	
TOT OBS	359	11	239	542	1941	1265	158	41	48	133	1130	5867
TOT PCT	6.1	.2	4.1	9.2	33.1	21.6	2.7	.7	.8	2.3	19.3	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	2.1	3.0	3.1	3.1	3.1	3.1	3.1	3.1
* OR >5000	2.5	3.7	3.8	3.8	3.8	3.8	3.8	3.8
* OR >3500	4.1	6.4	6.4	6.4	6.5	6.5	6.5	6.5
* OR >2000	15.4	27.5	28.0	28.0	28.0	28.0	28.0	28.0
* OR >1000	27.4	57.2	60.5	60.9	61.1	61.1	61.1	61.1
* OR >600	28.3	62.9	68.6	69.9	70.3	70.4	70.4	70.4
* OR >300	28.4	64.2	71.5	73.6	74.2	74.4	74.5	74.5
* OR >150	28.4	64.2	71.6	73.7	74.4	74.6	74.7	74.7
* OR > 0	28.4	64.3	71.9	74.3	76.1	78.1	80.5	80.8
TOTAL	1668	3776	4224	4364	4471	4586	4730	4744

TOTAL NUMBER OF OBS: 5874 PCT FREQ NH <5/8: 19.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.8	3.4	5.9	3.4	2.8	5.0	11.1	10.9	47.7	6.1	5876

PERIOD: (PRIMARY) 1953-1972
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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
	PCP	*	.1	.3	.5	.2	.1	.1	*	.0	.0	1.4	
<1/2	NO PCP	.1	.3	.7	.8	.9	.9	.1	*	.0	*	3.4	
	TOT %	.1	.4	1.1	1.3	1.2	.4	.2	.1	.0	*	4.7	
	PCP	.1	.1	.3	.3	.1	.1	.0	*	.0	.1	1.1	
1/2<1	NO PCP	*	*	.2	.2	.2	.1	*	.0	.0	*	.7	
	TOT %	.1	.2	.5	.5	.3	.1	*	*	.0	.1	1.8	
	PCP	.1	.3	.6	.4	.2	.1	*	*	.0	*	1.7	
1<2	NO PCP	*	.1	.2	.1	.2	*	.1	*	.0	*	.8	
	TOT %	.2	.3	.8	.6	.3	.1	.1	.1	.0	*	2.4	
	PCP	.6	.8	1.2	1.0	.6	.4	.4	.6	.0	*	5.6	
2<5	NO PCP	.1	.4	.6	.4	.3	.9	.1	*	.0	*	2.3	
	TOT %	.7	1.1	1.8	1.4	.9	.7	.5	.6	.0	.1	7.9	
	PCP	1.8	1.7	2.3	1.6	1.4	.8	1.3	2.6	.0	.1	13.6	
5<10	NO PCP	4.0	3.1	3.5	3.2	3.0	2.0	3.4	5.1	.0	.5	27.7	
	TOT %	5.9	4.8	5.8	4.7	4.4	2.8	4.7	7.6	.0	.5	41.3	
	PCP	.3	.2	.1	.1	.2	.2	.3	.5	.0	*	1.9	
10+	NO PCP	5.4	4.0	3.0	3.0	4.9	5.4	5.5	8.0	.0	.7	39.9	
	TOT %	9.7	4.2	3.1	3.2	5.1	5.4	5.8	8.4	.0	.7	41.8	
	TOT OBS												5855
	TOT PCT	12.6	11.0	13.1	11.8	12.2	9.8	11.2	16.9	.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
	0-3	*	*	*	.1	*	*	*	.0	.0	*	.2	
<1/2	4-10	*	.2	.3	.4	.2	.1	*	*	.0		1.2	
	11-21	*	.2	.5	.6	.7	.3	.1	*	.0		2.3	
	22+	*	*	.3	.3	.3	.1	*	*	.0		1.0	
	TOT %	.1	.4	1.0	1.3	1.2	.4	.2	.1	.0	*	4.7	
	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	.1	.1	
1/2<1	4-10	*	*	.1	.1	*	.1	.0	*	.0		.3	
	11-21	*	*	.2	.2	.2	*	*	.0	.0		.7	
	22+	.1	.1	.2	.2	.1	*	.0	.0	.0		.7	
	TOT %	.1	.2	.5	.5	.3	.1	*	*	.0	.1	1.8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
1<2	4-10	*	*	.1	.1	*	*	*	*	.0		.3	
	11-21	.1	.1	.2	.3	.2	*	*	.0	.0		.9	
	22+	.1	.2	.4	.2	.1	.1	*	.1	.0		1.2	
	TOT %	.2	.3	.8	.6	.3	.1	.1	.1	.0	*	2.4	
	0-3	*	*	*	*	*	.0	.0	.0	.0	.1	.2	
2<5	4-10	.1	.1	.2	.2	.1	.1	.1	*	.0		1.0	
	11-21	.3	.3	.5	.7	.4	.3	.1	.2	.0		2.7	
	22+	.3	.7	1.0	.5	.4	.3	.3	.4	.0		4.0	
	TOT %	.7	1.1	1.8	1.4	.9	.7	.5	.6	.0	.1	7.9	
	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.5	1.3	
5<10	4-10	1.4	.9	1.0	1.1	1.1	.8	1.1	1.4	.0		8.7	
	11-21	2.4	2.2	2.3	2.1	2.0	1.3	2.1	3.3	.0		17.7	
	22+	2.0	1.6	2.5	1.4	1.1	.6	1.4	2.8	.0		13.6	
	TOT %	5.9	4.8	5.8	4.7	4.4	2.8	4.7	7.6	.0	.5	41.3	
	0-3	.2	.2	.3	.1	.3	.2	.2	.2	.0	.7	2.3	
10+	4-10	1.5	1.3	1.2	.9	1.2	1.8	2.0	1.8	.0		11.7	
	11-21	3.0	2.2	1.2	1.5	2.5	2.8	2.6	4.5	.0		20.3	
	22+	1.0	.5	.4	.7	1.2	.7	1.0	2.0	.0		7.6	
	TOT %	5.7	4.2	3.1	3.2	5.2	5.6	5.8	8.4	.0	.7	41.9	
	TOT OBS												5869
	TOT PCT	12.6	11.1	13.0	11.7	12.2	9.8	11.2	16.9	.0	1.5	100.0	

MAY

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1948-1972

TABLE 10

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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	6.3	.1	3.6	9.5	32.7	22.2	2.4	1.0	1.1	2.2	81.2	18.8	1471
06&09	7.1	.1	3.1	9.0	33.9	23.3	2.8	.7	.8	2.2	83.0	17.0	1467
12&15	5.6	.4	4.6	9.6	33.6	21.6	2.7	.5	.7	2.5	81.8	18.2	1465
18&21	5.4	.1	5.0	9.0	32.2	19.1	2.8	.6	.7	2.2	77.1	22.9	1473
TOT	359	11	239	544	1944	1268	158	41	48	133	4745	1131	5876
PCT	6.1	.2	4.1	9.3	33.1	21.6	2.7	.7	.8	2.3	80.8	19.2	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	5.1	1.9	1.8	7.3	43.4	40.4	1471
06&09	5.0	2.0	2.4	7.8	43.7	39.1	1467
12&15	4.3	1.6	2.4	8.2	40.1	43.4	1467
18&21	4.4	1.8	3.1	8.1	37.8	44.8	1472
TOT	277	107	142	463	2426	2462	5877
PCT	4.7	1.8	2.4	7.9	41.3	41.9	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	6.3	10.6	23.6	57.7	18.7	1470
06&09	7.1	10.6	24.0	59.5	16.5	1467
12&15	5.6	10.9	24.2	58.0	17.9	1465
18&21	5.4	11.7	23.8	53.7	22.5	1472
TOT	359	643	1404	3360	1110	5874
PCT	6.1	10.9	23.9	57.2	18.9	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
50/54	.0	.0	.0	.0	.0	*	.0	.0	1	*
45/49	.0	.0	.0	.0	.1	.1	.2	.1	21	.4
40/44	.0	*	*	.1	.8	3.2	9.2	17.5	1802	31.0
35/39	.0	.0	.1	.9	4.3	12.0	18.0	23.8	3432	59.0
30/34	.0	.0	.1	.3	1.9	2.8	2.7	1.5	541	9.3
25/29	.0	.0	.0	.0	.1	.1	*	.1	13	.2
20/24	.0	.0	.0	.0	.0	.1	.0	.0	3	.1
TOTAL	0	1	8	76	419	1064	1744	2501	5813	100.0
PCT	.0	*	.1	1.3	7.2	18.3	30.0	43.0		

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
*	*	*	.1	.1	*	*	.0	.0	*
2.4	4.2	6.4	6.3	5.0	2.8	1.8	1.6	.0	.5
9.1	6.1	6.3	5.1	6.6	5.8	7.2	11.9	.0	.9
1.1	.6	.3	.4	.5	1.0	2.1	3.4	.0	.1
*	.0	.0	.0	*	.1	.1	*	.0	.0
.0	.0	.0	.0	*	*	*	.0	.0	.0
12.6	11.0	12.9	11.8	12.2	9.7	11.2	17.0	.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	45	43	41	38	33	31	24	37.7	1469
06&09	45	43	41	38	33	31	24	37.5	1465
12&15	51	44	42	39	34	31	24	38.4	1466
18&21	47	44	42	39	34	32	27	38.6	1471
TOT	51	43	42	38	33	31	24	38.1	5871

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	1.3	7.1	18.8	30.3	42.5	85	1454
06&09	.0	1.2	6.5	16.5	26.9	48.9	86	1455
12&15	.0	1.7	7.6	19.3	30.1	41.2	85	1453
18&21	.0	1.7	7.6	18.5	32.7	39.5	85	1459
TOT	0	85	420	1064	1748	2504	85	5821

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1948-1972

AREA 0002 OSV BRAVO
56.5N 51.0W

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	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.0	*	1	.0	*
7/8	.0	.0	.0	.0	.0	.0	.1	4	.0	.1
6	.0	.0	.0	.0	.0	*	.1	6	.0	.1
5	.0	.0	.0	.0	*	.3	.1	22	*	.3
4	.0	.0	.0	.0	.1	1.4	.1	96	.2	1.5
3	.0	.0	.0	*	.4	2.6	.0	174	.5	2.5
2	.0	.0	.0	*	3.6	5.0	.0	487	1.4	7.0
1	.0	.0	.0	*	10.5	4.4	.0	874	2.3	12.7
0	.0	.0	.0	.1	13.3	2.0	*	901	1.7	13.7
-1	.0	.0	.0	.9	13.0	.6	.0	847	.8	13.7
-2	.0	.0	.0	4.0	8.3	.3	.0	736	.4	12.2
-3	.0	.0	.0	7.3	4.1	.2	.0	687	.4	11.4
-4	.0	.0	*	5.9	2.0	.1	.0	467	.2	7.8
-5	.0	.0	.7	2.9	.7	.1	.0	250	.1	4.2
-6	.0	.0	1.1	.8	.4	.0	.0	129	*	2.2
-7/-8	.0	.0	.8	.6	.7	.0	.0	118	.1	2.0
-9/-10	.0	.1	.1	.3	.1	.0	.0	35	.0	.6
-11/-13	.1	.1	.0	.1	.0	.0	.0	10	.0	.2
TOTAL	3	9	154	1353	9315	988	22	5844	466	5378
PCT	.1	.2	2.6	29.2	56.7	16.9	.4	100.0	8.0	92.0

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	.5	.0	.0	.0	.0	.5
1-2	.0	.6	.2	.0	.0	.0	.8
3-4	*	.6	2.0	.0	.0	.0	2.6
5-6	.0	.2	1.4	.2	.0	.0	1.8
7	.0	.1	1.2	.7	.0	.0	2.0
8-9	.0	.0	.6	.7	.0	.0	1.3
10-11	.0	.0	.2	.2	.1	.0	.5
12	.0	.0	.4	.9	.0	.0	1.3
13-16	.0	.0	.1	.5	.1	.0	.6
17-19	.0	.0	.0	*	.2	.0	.3
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	*	2.0	6.0	3.2	.4	.0	11.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.0	.0	.0	.0	.8
1-2	*	.5	1.0	.0	.0	.0	1.6
3-4	.0	.3	1.5	.1	.0	.0	2.0
5-6	.0	.3	.9	.1	.0	.0	1.3
7	.0	.3	2.1	.5	.0	.0	2.9
8-9	.0	*	.8	.4	.0	.0	1.3
10-11	.0	*	.1	.5	.1	.0	.7
12	.0	.0	*	.2	.1	.0	.4
13-16	.0	.0	.1	.5	.2	.0	.7
17-19	.0	.0	.0	.7	.2	.0	.9
20-22	.0	.0	.0	.1	.2	.0	.3
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	2.2	6.6	3.1	.8	*	13.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.0	.0	.0	.0	.9
1-2	.0	.8	.3	.0	.0	.0	1.2
3-4	.0	.3	1.0	.0	.0	.0	1.4
5-6	.0	.3	.5	.2	*	.0	1.1
7	.1	.3	1.1	.5	.0	.0	2.0
8-9	.0	.1	1.0	.6	.0	.0	1.8
10-11	.0	*	.7	.5	.1	.0	1.4
12	.0	.0	.2	.9	*	.0	1.1
13-16	.0	.0	.5	.7	.5	.0	1.6
17-19	.0	.0	.0	.4	.3	.0	.7
20-22	.0	.0	.0	.2	.5	.0	.7
23-25	.0	.0	.0	.1	.2	.0	.4
26-32	.0	.0	.0	*	.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	.2	2.7	5.4	4.2	1.8	*	14.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.0	.0	.0	.0	.9
1-2	.0	.7	.7	.0	.0	.0	1.4
3-4	.0	.3	.9	.2	.0	.0	1.4
5-6	.0	.1	.7	*	.0	.0	.8
7	.1	*	.9	.7	.0	.0	1.7
8-9	.0	.2	.5	.2	.1	.0	1.0
10-11	.0	*	.6	.9	*	.0	1.6
12	.0	.0	.2	.4	.0	.0	.6
13-16	.0	.0	*	.3	.1	.0	.4
17-19	.0	.0	.0	.2	*	.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	.2	2.1	4.6	2.9	.3	.0	10.0

MAY

PERIOD: (OVER-ALL) 1963-1972 AREA 0002 OSV BRAVO

TABLE 18 (CONT) 56.5N 51.0W

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	*	.0	.0	.0	.7
1-2	.0	.2	.5	.0	.0	.0	.7
3-4	.0	.9	1.2	*	.0	.0	2.1
5-6	.0	.1	1.7	.4	.0	.0	2.2
7	*	.2	.8	.8	.0	.0	1.8
8-9	.0	.0	.2	.5	.0	.0	.8
10-11	.0	.0	.1	.4	*	.0	.6
12	.0	.0	.1	.2	.1	.0	.4
13-16	.0	.0	*	.2	.1	.0	.4
17-19	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	.0	.1	.0	.1
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	.2	2.0	4.7	2.6	.4	.0	9.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.2	*	.0	.0	.0	1.3
1-2	.0	1.1	.6	.0	.0	.0	1.7
3-4	.0	.5	1.8	*	.0	.0	2.4
5-6	.0	.3	1.2	.4	.0	.0	1.8
7	.0	*	1.2	.3	.0	.0	1.6
8-9	.0	.0	.3	*	.0	.0	.3
10-11	.0	.0	.2	.4	.0	.0	.5
12	.0	.0	*	*	.0	.0	.1
13-16	.0	.0	.0	.1	.1	.0	.2
17-19	.0	.0	.0	*	.1	.0	.1
20-22	.0	.0	.0	.0	.2	*	.2
23-25	.0	.0	.0	.0	.1	*	.1
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	3.2	5.2	1.3	.5	.1	10.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	.0	.0	.0	.0	1.1
1-2	.0	1.0	.4	.0	.0	.0	1.4
3-4	.0	.3	1.1	.0	.0	.0	1.4
5-6	.0	.4	1.6	.1	.0	.0	2.2
7	.0	.1	1.1	.1	.0	.0	1.3
8-9	.0	.1	.5	.5	*	.0	1.2
10-11	.0	.0	.4	.5	.1	.0	1.0
12	.0	.0	*	.4	.1	.0	.6
13-16	.0	.0	*	.2	.1	.0	.4
17-19	.0	.0	.0	.0	.2	.0	.2
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	.2	2.8	5.3	1.6	.5	*	10.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	*	.0	.0	.0	.6
1-2	*	.9	.6	.0	.0	.0	1.5
3-4	.1	.8	1.8	.0	.0	.0	2.7
5-6	.0	.5	2.2	.2	.0	.0	2.9
7	.0	.3	2.7	.5	.0	.0	3.5
8-9	.0	*	.5	1.0	.0	.0	1.6
10-11	.0	.0	1.0	.9	.1	.0	2.0
12	.0	*	.4	1.3	.1	.0	1.8
13-16	.0	.0	.3	1.0	.2	.0	1.5
17-19	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.1	.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	.1	3.1	9.6	4.9	.5	.0	18.2

HGT	TOTAL PCT
<1	.6
1-2	1.5
3-4	2.7
5-6	2.9
7	3.5
8-9	1.6
10-11	2.0
12	1.8
13-16	1.5
17-19	.1
20-22	.1
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	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	5.9	.1	.0	.0	.0	8.7	
1-2	.1	5.9	4.3	.0	.0	.0	10.3	
3-4	.1	4.1	11.4	.4	.0	.0	15.9	
5-6	.0	2.2	10.2	1.7	*	.0	14.2	
7	.2	1.5	11.1	4.1	.0	.0	16.8	
8-9	.0	.4	4.5	4.1	.1	.0	9.2	
10-11	.0	.1	3.3	4.2	.5	.0	8.2	
12	.0	*	1.4	4.4	.4	.0	6.3	
13-16	.0	.0	1.1	3.3	1.4	.0	5.9	
17-19	.0	.0	.0	1.5	1.1	.0	2.5	
20-22	.0	.0	.0	.3	1.1	*	1.4	
23-25	.0	.0	.0	.1	.3	*	.5	
26-32	.0	.0	.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	
								2049
TOT PCT	3.1	20.2	47.3	24.1	5.1	.1	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	*	2.0	7.1	6.7	3.2	1.3	.4	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1186	5
6-7	.0	.9	5.0	8.1	10.7	4.9	4.1	2.3	1.5	.4	.1	*	*	.0	.0	.0	.0	.0	.0	2174	7
8-9	.0	.3	1.3	1.3	4.7	3.8	5.5	4.0	3.2	1.1	.7	.2	*	.0	.0	.0	.0	.0	.0	1501	10
10-11	.0	.2	.1	.1	.6	.5	1.2	.9	1.5	.7	.4	.2	.1	.0	.0	.0	.0	.0	.0	368	12
12-13	.0	.0	.1	.0	*	.1	.1	.1	.6	.1	.2	.3	.1	.0	.0	.0	.0	.0	.0	101	16
>13	.0	.0	.0	*	*	.0	.0	.0	*	*	*	.0	.1	.0	.0	.0	.0	.0	.0	8	19
INDET	.4	.8	3.2	1.0	.9	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	390	4
TOTAL	26	232	962	978	1155	620	656	430	396	139	78	38	18	0	0	0	0	0	0	5728	8
PCT	.5	4.1	16.8	17.1	20.2	10.8	11.5	7.5	6.9	2.4	1.4	.7	.3	.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	14.0	3.7	5.3	.0	1.1	.0	.0	23.4	4.7	.0	7.1	.1	.0		.0	64.7
NE	20.2	2.5	4.8	.0	1.1	.2	.0	28.7	3.7	.0	8.6	.7	.3		.0	58.1
E	24.2	1.5	8.6	.0	.4	.0	.1	34.4	2.0	.0	15.5	1.0	1.1		.0	46.0
SE	18.6	.9	6.9	.0	.2	.0	.0	26.2	2.8	.0	19.8	.2	.5		.0	50.9
S	14.8	1.4	3.9	.0	.2	.0	.0	20.3	2.1	.0	17.5	.5	.3		.0	59.4
SW	7.1	2.7	4.7	.0	.7	.0	.0	15.1	2.4	.3	13.6	.7	.4		.0	67.5
W	6.2	5.4	2.9	.0	1.2	.0	.0	15.5	5.3	.1	5.3	.5	.1		.1	73.2
NW	4.6	4.5	3.0	.0	1.4	.0	.2	13.4	5.6	.0	3.3	.0	.1		.1	77.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	4.0	.0	3.0	.0	1.0	.0	.0	7.1	2.0	.0	11.1	.0	.0		.0	79.8
TOT PCT	13.2	2.8	4.9	.0	.8	*	.1	21.5	3.6	.1	11.2	.4	.3		*	62.8
TOT OBS:	9655															

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	13.9	2.8	5.2	.0	.8	.0	.1	22.4	3.8	.1	11.3	.3	.4		.0	61.7
06&09	14.6	2.9	6.5	.0	.5	.0	.0	24.4	3.4	.1	11.0	.5	.1		.1	60.4
12&15	12.2	2.9	4.1	.0	1.1	.0	.1	20.0	4.2	.0	11.8	.8	.9		.0	62.7
18&21	12.2	2.6	3.8	.0	.8	.1	.1	19.2	2.9	.0	10.8	.2	.4		.0	66.5
TOT PCT	13.2	2.8	4.9	.0	.8	*	.1	21.5	3.6	.1	11.2	.4	.3		*	62.8
TOT OBS:	9659															

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	2.9	4.9	1.6	.5	*		10.1	15.9	11.8	9.0	9.1	10.4	10.7	9.6	10.3	10.0
NE	.1	2.5	4.4	1.9	1.0	*		9.9	17.8	9.3	10.6	9.5	9.6	9.8	9.7	9.8	10.9
E	.2	3.4	6.2	2.4	.9	*		13.1	16.7	13.6	13.2	13.3	13.5	13.8	12.3	12.4	12.5
SE	.2	2.9	5.8	2.8	.2	.0		11.9	16.0	11.3	11.9	12.2	13.6	12.3	12.1	10.8	10.9
S	.3	2.6	7.4	3.4	.1	.0		13.9	16.7	13.2	1 5	13.3	13.1	14.6	17.0	14.5	12.7
SW	.2	3.2	5.6	1.4	.1	.0		10.5	14.4	10.7	1..2	9.0	8.3	9.2	10.4	12.4	12.7
W	.3	4.2	6.2	2.0	.2	.0		12.9	14.5	12.5	13.2	14.8	12.3	11.3	12.7	13.3	13.0
NW	.3	4.1	8.8	2.6	.3	*		16.1	15.3	16.1	16.0	16.8	17.4	16.7	14.8	14.9	15.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0	1.5	2.4	2.1	1.8	1.7	1.6	1.4	1.4
TOT OBS	194	1459	2792	1028	192	6	5671		15.6	710	708	709	708	707	709	708	712
TOT PCT	3.4	25.7	49.2	18.1	3.4	.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	1.3	4.6	3.2	.7	.2		10.1	15.9	10.4	9.7	10.1	10.2
NE	.9	4.5	2.8	1.4	.2		9.9	17.8	9.9	9.5	9.7	10.4
E	1.6	5.9	3.9	1.6	.2		13.1	16.7	13.4	13.4	13.0	12.5
SE	1.3	5.5	4.2	1.0	*		11.9	16.0	11.6	12.9	12.2	10.9
S	1.4	5.8	5.6	1.1	.0		13.9	16.7	12.8	13.2	15.8	13.6
SW	1.3	5.5	3.1	.5	*		10.5	14.4	10.9	8.6	9.8	12.6
W	1.8	6.6	3.7	.8	*		12.9	14.5	12.8	13.5	12.0	13.2
NW	1.7	8.3	5.0	1.1	*		16.1	15.3	16.0	17.1	15.7	15.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	2.0	2.0	1.6	1.4
TOT OBS	731	2657	1783	461	39	5671		15.6	1418	1417	1416	1420
TOT PCT	12.9	46.9	31.4	8.1	.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	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.0	1.9	26.7	48.8	17.1	3.4	.1	15.4	100.0	1418
06&09	2.0	1.5	27.2	49.0	16.6	3.7	.0	15.3	100.0	1417
12&15	1.6	2.2	24.2	49.2	18.9	3.8	.1	15.9	100.0	1416
18&21	1.4	1.1	24.7	49.9	20.0	2.7	.1	15.8	100.0	1420
TOT	99	95	1459	2792	1028	192	6	15.6		5671
PCT	1.7	1.7	25.7	49.2	18.1	3.4	.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	.6	.3	2.2	7.1		7.1
NE	.7	.3	1.4	7.5		7.1
E	.4	.2	1.2	11.3		7.5
SE	.6	.2	1.6	9.4		7.3
S	1.2	.7	3.0	9.0		6.8
SW	1.4	.5	2.9	5.7		6.4
W	1.5	.8	3.8	6.8		6.4
NW	1.2	.7	5.0	9.2		6.8
VAR	.0	.0	.0	.0		.0
CALM	.2	.1	.4	1.0		6.6
TOT OBS	439	215	1217	3798	5669	6.9
TOT PCT	7.7	3.8	21.5	67.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NM >4/8) AND OCCURRENCE OF NM <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+	NM <5/8 ANY HGT	TOTAL OBS
N	.5	*	.7	1.5	3.9	1.5	.1	.1	*	.7	1.6	
NE	.6	*	.7	1.3	3.9	1.3	.3	.0	.1	.1	1.5	
E	1.8	*	1.3	2.3	4.1	1.7	.3	*	.1	.2	1.2	
SE	2.1	.1	1.2	1.4	2.8	1.4	.1	*	.1	.5	2.2	
S	1.9	.1	1.1	1.5	2.4	1.5	.2	.1	.1	.7	4.1	
SW	.9	.1	.4	1.0	2.4	1.1	.2	.2	.2	.4	3.7	
W	.4	.0	.4	1.1	5.2	1.7	.1	*	.1	.2	3.8	
NW	.3	*	.4	1.5	7.2	3.1	.2	.1	.1	.1	3.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.1	.1	.6	.2	*	*	*	*	.5	
TOT OBS	489	20	360	663	1038	768	91	32	43	127	1238	5669
TOT PCT	8.6	.4	6.4	11.7	32.4	13.5	1.6	.6	.8	2.2	21.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	2.0	2.9	2.9	2.9	3.0	3.0	3.0	3.0
* OR >5000	2.3	3.4	3.5	3.5	3.5	3.5	3.5	3.5
* OR >3500	3.4	5.0	5.1	5.1	5.1	5.1	5.1	5.1
* OR >2000	12.5	18.3	18.6	18.7	18.7	18.7	18.7	18.7
* OR >1000	26.9	48.5	50.5	50.9	51.0	51.1	51.1	51.1
* OR >600	28.7	57.4	61.4	62.6	62.7	62.8	62.8	62.8
* OR >300	29.0	60.3	66.1	68.0	68.9	69.1	69.1	69.2
* OR >150	29.0	60.4	66.2	68.2	69.2	69.4	69.5	69.6
* OR > 0	29.0	60.4	66.5	69.0	71.4	73.6	77.4	78.2
TOTAL	1645	3429	3775	3915	4054	4175	4394	4436

TOTAL NUMBER OF OBS: 5674 PCT FREQ NM <5/8: 21.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
8.6	4.7	5.4	3.1	2.1	4.2	8.9	9.1	47.4	8.5	5677

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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	.1	.5	.3	.2	.1	.1	*	.0	*	1.3	
	NO PCP	.2	.3	1.0	1.4	1.3	.8	.3	.3	.0	.1	5.6	
	TOT %	.2	.4	1.5	1.7	1.5	.9	.4	.3	.0	.1	6.9	
1/2<1	PCP	*	.1	.3	.3	.3	.1	*	*	.0	.0	1.1	
	NO PCP	.2	.1	.2	.3	.3	.2	*	.1	.0	.0	1.4	
	TOT %	.2	.2	.5	.6	.6	.2	.1	.1	.0	.0	2.5	
1<2	PCP	.1	.2	.5	.4	.2	.1	*	*	.0	.0	1.5	
	NO PCP	.1	.1	.2	.2	.2	.1	*	*	.0	*	1.0	
	TOT %	.2	.3	.7	.6	.4	.1	.1	*	.0	*	2.5	
2<5	PCP	.4	.6	1.1	.7	.5	.9	.2	.2	.0	.0	4.0	
	NO PCP	.2	.2	.5	.4	.5	.2	.1	.1	.0	.1	2.3	
	TOT %	.6	.9	1.6	1.1	1.0	.4	.3	.3	.0	.1	6.3	
5<10	PCP	1.9	1.4	1.9	1.2	1.4	.9	1.0	1.6	.0	.1	11.2	
	NO PCP	2.0	3.0	3.2	2.0	3.5	2.8	3.9	4.6	.0	.3	25.7	
	TOT %	4.4	4.6	5.1	3.2	4.9	3.7	4.9	6.2	.0	.4	36.9	
10+	PCP	.3	.2	.2	.2	.3	.2	.6	.3	.0	*	2.3	
	NO PCP	4.2	3.3	3.6	4.5	5.2	4.8	7.0	8.8	.0	1.1	42.5	
	TOT %	4.5	3.5	3.8	4.7	5.5	5.0	7.8	9.1	.0	1.2	44.9	
	TOT OBS												9695
	TOT PCT	10.1	9.9	13.1	11.9	13.9	10.9	12.9	16.0	.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	*	*	.1	*	*	*	.0	.1	.3	
	4-10	.1	.2	.5	.5	.4	.4	.2	.2	.0		2.4	
	11-21	.1	.2	.8	.9	.8	.4	.1	.1	.0		3.5	
	22+	.0	*	.1	.3	.2	*	*	*	.0		.7	
	TOT %	.2	.4	1.4	1.7	1.5	.9	.4	.3	.0	.1	6.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	*	*	.1	.1	.1	.1	*	.0		.6	
	11-21	.1	.1	.3	.3	.3	.1	.0	*	.0		1.4	
	22+	*	.1	.1	.2	.2	*	.0	*	.0		.6	
	TOT %	.2	.2	.5	.6	.6	.2	.1	.1	.0	.0	2.5	
1<2	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	.1	.1	.1	.1	.1	*	*	.0		.5	
	11-21	.1	.1	.3	.2	.1	*	*	.0	.0		.8	
	22+	.1	.1	.3	.3	.2	*	*	*	.0		1.1	
	TOT %	.2	.3	.7	.6	.4	.1	.1	*	.0	*	2.5	
2<5	0-3	.0	.0	.0	.0	.0	*	*	.0	.0	.1	.1	
	4-10	.1	.1	.2	.1	.1	*	.1	.1	.0		.9	
	11-21	.3	.2	.6	.5	.4	.3	.1	.2	.0		2.6	
	22+	.2	.5	.8	.5	.4	.1	.1	*	.0		2.7	
	TOT %	.6	.9	1.6	1.1	1.0	.5	.3	.3	.0	.1	6.3	
5<10	0-3	.1	*	.1	*	.1	*	*	.1	.0	.4	.8	
	4-10	1.2	1.1	1.3	.7	.7	.9	1.2	1.5	.0		8.4	
	11-21	2.0	2.0	2.3	1.7	2.7	1.9	2.1	3.4	.0		18.2	
	22+	1.1	1.5	1.4	.9	1.5	.9	.9	1.2	.0		9.4	
	TOT %	4.4	4.6	5.1	3.2	4.9	3.7	4.3	6.2	.0	.4	36.8	
10+	0-3	.1	.1	.1	.1	.1	.1	.2	.2	.0	1.2	2.2	
	4-10	1.3	1.0	1.3	1.4	1.2	1.8	2.6	2.3	.0		14.9	
	11-21	2.3	1.8	1.7	2.3	3.1	2.8	3.8	5.1	.0		22.8	
	22+	.7	.7	.6	.9	1.1	.4	1.1	1.6	.0		7.1	
	TOT %	4.5	3.5	3.8	4.7	5.5	5.0	7.7	9.2	.0	1.2	45.0	
	TOT OBS												9669
	TOT PCT	10.1	9.9	13.1	11.9	13.8	10.5	12.9	16.1	.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	9.7	.1	5.4	11.6	33.8	13.0	.8	1.0	1.1	2.1	78.6	21.4	1419
06&09	8.4	.3	6.7	11.1	33.1	15.8	1.6	.4	.5	2.2	80.1	19.9	1419
12&15	8.0	.7	7.2	13.1	31.0	12.1	2.0	.4	.7	2.3	77.5	22.5	1417
18&21	8.4	.4	6.0	10.8	31.7	13.5	2.0	.5	.8	2.3	76.4	23.6	1422
TOT	489	22	360	663	1839	771	91	32	43	127	4437	1240	5677
PCT	8.6	.4	6.3	11.7	32.4	13.6	1.6	.6	.8	2.2	78.2	21.8	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	8.5	2.3	2.3	6.3	36.5	44.2	1418
06&09	7.0	2.3	2.3	6.2	38.1	44.2	1420
12&15	5.7	3.2	3.0	5.9	36.9	45.3	1416
18&21	6.4	2.5	2.5	6.7	35.7	46.3	1422
TOT	392	144	142	357	2087	2554	5676
PCT	6.9	2.5	2.5	6.3	36.8	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	9.7	15.9	30.3	49.0	20.7	1417
06&09	8.5	15.9	29.7	51.0	19.2	1419
12&15	8.1	16.9	31.9	46.0	22.1	1416
18&21	8.4	15.4	28.6	48.0	23.3	1422
TOT	493	909	1709	2754	1211	5674
PCT	8.7	16.0	30.1	48.5	21.3	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
50/54	.0	.0	.0	.0	*	*	.1	*	7	.1
45/49	.0	.0	*	*	.2	1.6	5.0	5.3	681	12.1
40/44	.0	.0	.0	.1	1.8	6.7	21.2	39.4	3891	69.2
35/39	.0	.0	.0	.1	.6	3.6	6.5	7.5	1024	18.2
30/34	.0	.0	.0	.0	.1	.1	.1	.1	20	.4
TOTAL	0	0	1	14	150	673	1842	2943	5623	100.0
PCT	.0	.0	*	.2	2.7	12.0	32.8	52.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	.0	*	*	*	.0	*
.8	1.1	1.6	1.9	3.0	1.7	1.3	.7	.0	.2
7.1	7.6	10.3	8.9	9.3	6.7	7.9	10.0	.0	1.2
2.1	1.1	1.0	1.1	1.6	1.9	3.7	5.2	.0	.3
*	*	.0	.0	*	.1	*	.2	.0	.0
10.1	9.9	13.0	11.9	13.9	10.5	13.0	16.1	.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	50	46	45	41	37	35	34	41.2	1419
06&09	49	46	45	41	37	35	32	41.0	1420
12&15	50	47	46	42	37	36	34	41.9	1416
18&21	51	48	46	42	38	36	34	42.3	1422
TOT	51	47	45	42	37	35	32	41.6	5677

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	1.4	10.5	32.6	55.4	90	1407
06&09	.0	.1	1.2	10.6	29.2	56.9	89	1409
12&15	.0	.6	2.7	12.0	34.8	49.9	88	1404
18&21	.0	.1	3.4	14.8	34.6	47.1	88	1410
TOT	0	15	150	674	1846	2945	89	5630

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1948-1972

AREA 0002 OSV BRAVO
56.5N 51.0W

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	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WO FOG
9/10	.0	.0	*	.0	*	*	4	.0	.1
7/8	.0	.0	.1	*	.1	.2	24	*	.4
6	.0	.0	.1	.2	.3	.1	34	*	.6
5	.0	.0	.1	.2	.9	.0	67	.1	1.1
4	.0	.0	.1	1.2	1.7	.0	168	.5	2.5
3	.0	*	.2	3.6	2.2	.0	339	1.1	4.9
2	.0	*	.6	8.1	3.0	*	686	1.9	9.9
1	.0	.0	1.6	14.7	2.2	.0	1051	2.3	16.3
0	.0	*	5.0	13.3	.7	.0	1078	1.8	17.3
-1	.0	.1	7.0	7.9	.4	.0	865	1.1	14.2
-2	.0	.3	5.5	5.0	.1	.0	619	.8	10.2
-3	.0	.8	3.5	1.8	.1	.0	349	.7	5.5
-4	.0	.7	2.2	.9	*	.0	217	.5	3.3
-5	.0	.4	.8	.2	.0	.0	77	.2	1.1
-6	.0	.1	.7	.1	.0	.0	52	.1	.8
-7/-8	*	.1	.3	*	.0	.0	27	.1	.4
-9/-10	.0	.1	*	.0	.0	.0	8	.0	.1
-11/-13	.0	.1	.0	.0	.0	.0	4	.0	.1
TOTAL	1	157	1571	3234	669	17	5649	632	5017
PCT	*	2.8	27.8	57.2	11.8	.3	100.0	11.2	88.8

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	.0	.2	*	.0	.0	.0	.3
1-2	*	.8	.0	.0	.0	.0	.8
3-4	.0	.5	1.1	.1	.0	.0	1.7
5-6	.0	.2	.9	.2	.0	.0	1.3
7	.0	.2	.7	.4	.0	.0	1.3
8-9	.0	.1	.4	*	.0	.0	.6
10-11	.0	*	.3	.6	.0	.0	.9
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.1	.3	.1	.0	.5
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	*	2.0	3.6	1.7	.2	.0	7.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.2	.0	.0	.0	.0	.2
1-2	.0	.6	.2	.0	.0	.0	.8
3-4	.0	.1	.5	.1	.0	.0	.7
5-6	*	.1	.7	.2	.0	.0	1.0
7	.0	.2	.9	.1	.0	.0	1.2
8-9	.0	.1	.5	*	.0	.0	.6
10-11	.0	*	.4	.6	*	.0	1.1
12	.0	*	.0	.8	.0	.0	.8
13-16	.0	*	.0	.2	.4	*	.6
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	*	1.4	3.3	2.0	.5	*	7.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.3	.0	.0	.0	.0	.4
1-2	.0	.7	.5	.0	.0	.0	1.2
3-4	.0	.6	1.0	.1	.0	.0	1.8
5-6	*	.4	1.4	.1	.0	.0	1.9
7	.0	.1	1.9	.5	.0	.0	2.5
8-9	.0	.1	1.0	.5	.0	.0	1.5
10-11	.0	.0	.4	.4	.0	.0	.8
12	.0	*	.1	.1	*	.0	.3
13-16	.0	.0	.0	.3	.1	.0	.5
17-19	.0	.0	.0	.1	.1	.0	.2
20-22	.0	.0	.0	.0	.1	.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	.1	2.3	6.2	2..	.4	.0	11.2

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	1.3	.6	.0	.0	.0	1.8
3-4	.0	.6	2.7	*	.0	.0	3.3
5-6	.0	.1	1.3	.3	.0	.0	1.7
7	.0	*	1.6	.8	.1	.0	2.5
8-9	.0	.0	.8	1.4	.0	.0	2.2
10-11	.0	.0	.2	.6	.0	.0	.8
12	.0	*	*	.1	.0	.0	.2
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	.0	2.5	7.0	3.4	.1	.0	13.0

PERIOD: (OVER-ALL) 1963-1972

JUNE

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56.5N 51.0W

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	.3	.8	*	.0	.0	.0	1.2	.1	.7	.0	.0	.0	.0	.9
1-2	.1	1.0	.5	.0	.0	.0	1.7	.0	1.4	.7	.0	.0	.0	2.2
3-4	.0	.5	2.2	.4	.0	.0	3.0	.0	1.0	2.8	.1	.0	.0	3.9
5-6	.0	*	1.8	.6	.0	.0	2.5	.0	.5	1.6	.2	.0	.0	2.3
7	.0	.1	1.2	1.2	.0	.0	2.5	.0	.3	1.3	.1	.0	.0	1.7
8-9	.0	*	.4	1.0	*	.0	1.4	.0	.0	.3	.4	.0	.0	.7
10-11	.0	.0	.2	.2	.0	.0	.4	.0	.0	.3	.3	.0	.0	.6
12	.0	.0	*	.4	.0	.0	.4	.0	.0	.1	.1	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	*	*	.0	.1	.0	.0	*	*	.0	.0	.1
20-22	.0	.0	.0	*	*	.0	.1	.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	6.4	3.7	.1	.0	13.2	.1	3.9	7.2	1.3	*	.0	12.5

	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	.7	.0	.0	.0	.0	.9	.1	.4	.0	.0	.0	.0	.5	
1-2	*	1.2	.4	.0	.0	.0	1.7	*	1.0	.4	.0	.0	.0	1.4	
3-4	.0	1.2	2.3	.1	.0	.0	3.6	*	1.1	2.0	.2	.0	.0	3.4	
5-6	.0	.5	2.2	.4	.0	.0	3.1	.0	.5	2.9	.4	.0	.0	3.8	
7	.0	.4	2.0	.7	.0	.0	3.1	.0	.3	3.6	.6	.0	.0	4.5	
8-9	.0	.1	.4	.4	.0	.0	.9	.0	.2	1.2	.8	.0	.0	2.1	
10-11	.0	.0	.4	.3	.0	.0	.7	.0	*	.3	.5	*	.0	.9	
12	.0	.0	*	.2	*	.0	.3	.0	.0	*	.8	.0	.0	.8	
13-16	.0	.0	.1	.1	.1	.0	.3	.0	.0	.1	.5	.2	.0	.7	
17-19	.0	.0	.0	.2	.1	.0	.3	.0	.0	.0	.1	.1	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	4.1	7.8	2.4	.2	.0	14.7	.2	3.5	10.5	4.0	.3	.0	18.5	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	2.4	3.9	.1	.0	.0	.0	6.4	
1-2	.2	7.9	3.4	.0	.0	.0	11.6	
3-4	.2	5.6	14.6	1.1	.0	.0	21.6	
5-6	*	2.5	12.7	2.2	.0	.0	17.5	
7	.0	1.6	13.2	4.5	.1	.0	19.4	
8-9	.0	.6	4.9	4.4	*	.0	10.0	
10-11	.0	.1	2.5	3.6	.1	.0	6.3	
12	*	.1	.3	2.6	.1	.0	3.2	
13-16	*	*	.2	1.5	.9	*	2.8	
17-19	.0	.0	*	.5	.5	.0	1.0	
20-22	.0	.0	.0	.1	.2	.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	
								2008
TOT PCT	3.0	22.4	52.0	20.6	1.9	*	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	2.4	11.7	8.5	5.2	.8	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1572	4
6-7	.0	.5	5.9	7.7	11.4	5.9	3.3	1.4	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1980	7
8-9	.0	.1	1.3	2.1	5.0	3.4	3.7	1.9	1.3	.5	.3	.1	.1	.0	.0	.0	.0	.0	.0	1058	9
10-11	.0	.1	.3	.3	.5	.4	.9	.6	.7	.6	.3	.3	.1	.0	.0	.0	.0	.0	.0	281	12
12-13	.0	.0	*	*	*	.1	.2	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	60	14
>13	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	4	21
INDET	.4	1.5	3.4	1.4	.6	.1	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	404	4
TOTAL	33	247	1212	1075	1221	580	455	227	145	75	40	27	22	0	0	0	0	0	0	5359	7
PCT	.6	4.6	22.6	20.1	22.8	10.8	8.5	4.2	2.7	1.4	.7	.5	.4	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1959-1972
(OVER-ALL) 1948-1972

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56.5N 51.0W

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	2.8	5.8	.0	.0	.0	.0	19.7	4.1	.0	9.1	1.1	.4		.0	65.6
NE	17.9	.5	10.8	.0	.0	.0	.0	29.0	2.4	.0	20.4	.9	.0		.0	47.2
E	18.9	.3	12.9	.0	.0	.0	.0	31.9	1.7	.0	22.9	1.3	.0		.0	42.2
SE	18.2	.7	8.2	.0	.0	.0	.0	27.0	2.2	*	28.7	1.2	.1		.0	40.8
S	10.1	.8	6.3	.0	.0	.0	.0	17.0	1.8	.1	31.0	1.2	.3		.0	48.6
SW	5.8	2.0	5.5	.0	.0	.0	.0	13.0	1.1	.1	19.5	.9	.1		.0	65.3
W	5.7	1.6	4.8	.0	.0	.0	.0	11.9	2.6	.1	10.9	.4	.3		.0	73.7
NW	4.0	2.4	3.3	.0	.0	.0	.0	9.7	4.2	*	8.0	.4	.2		.0	77.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	1.3	1.3	4.0	.0	.0	.0	.0	6.7	1.3	.0	26.7	.7	.0		.0	64.7
TOT PCT	10.9	1.3	6.9	.0	.0	.0	.0	19.0	2.4	.1	20.7	.9	.2		.0	56.8
TOT OBS:	5913															

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	11.9	1.2	7.9	.0	.0	.0	.0	20.9	2.1	.1	20.4	.7	.2		.0	55.7
06&09	12.5	1.5	8.4	.0	.0	.0	.0	22.3	2.2	.1	20.2	.6	.0		.0	54.7
12&15	10.0	1.2	6.2	.0	.0	.0	.0	17.3	3.5	.0	21.4	1.5	.2		.0	56.4
18&21	9.3	1.4	5.1	.0	.0	.0	.0	15.5	1.9	.1	20.7	1.0	.3		.0	60.5
TOT PCT	10.9	1.3	6.9	.0	.0	.0	.0	19.0	2.4	.1	20.7	.9	.2		.0	56.8
TOT OBS:	5916															

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	2.6	3.4	1.0	.2	.0		7.8	13.7	9.3	7.2	8.0	8.4	6.8	7.6	7.5	7.5
NE	.4	2.5	2.8	1.4	.1	*		7.1	14.1	7.3	7.1	7.1	7.3	7.4	7.3	7.1	6.7
E	.5	3.4	5.0	1.7	.2	*		10.7	14.4	9.6	9.6	10.0	12.0	11.5	10.8	12.0	10.4
SE	.5	4.8	7.8	2.1	.2	*		15.4	14.3	15.0	14.8	13.6	15.4	17.3	17.1	15.4	14.9
S	.6	5.2	11.0	3.4	*	.0		20.2	14.9	20.4	20.8	21.4	17.8	20.0	20.8	20.1	20.4
SW	.4	4.0	6.3	1.6	*	.0		12.3	13.8	13.3	12.8	11.9	11.1	11.7	11.7	12.5	13.3
W	.3	4.3	6.3	1.7	.1	*		12.8	14.1	13.4	13.6	14.3	13.0	11.2	11.8	12.7	12.2
NW	.4	3.3	5.5	1.8	.2	.0		11.1	14.6	10.4	10.7	10.7	12.3	12.0	10.6	10.8	11.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0	1.3	3.5	3.1	2.7	2.0	2.3	1.9	3.3
TOT OBS	357	1796	2852	871	64	3	5943		13.9	744	745	742	742	737	743	742	748
TOT PCT	6.0	30.2	48.0	14.7	1.1	.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	1.5	3.8	2.0	.6	.0		7.8	13.7	8.3	8.2	7.2	7.5
NE	1.4	3.3	1.8	.6	*		7.1	14.1	7.2	7.2	7.3	6.9
E	1.7	5.1	3.2	.7	*		10.7	14.4	9.6	11.0	11.1	11.2
SE	2.2	8.0	4.5	.7	.1		15.4	14.3	14.9	14.5	17.2	15.2
S	2.1	9.9	7.6	.6	.0		20.2	14.9	20.6	19.6	20.4	20.2
SW	1.8	6.5	3.5	.4	.0		12.3	13.8	13.0	11.5	11.7	12.9
W	2.0	6.5	3.6	.7	*		12.8	14.1	13.5	13.6	11.5	12.5
NW	1.6	5.5	3.3	.7	*		11.1	14.6	10.5	11.5	11.3	11.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	2.4	2.9	2.2	2.6
TOT OBS	1006	2883	1753	291	10	5943		13.9	1489	1484	1480	1490
TOT PCT	16.9	48.5	29.5	4.9	.2		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	2.4	4.0	31.0	47.4	14.3	.8	.1	13.7	100.0	1489
06&09	2.9	3.0	30.7	48.0	14.3	1.1	.1	13.8	100.0	1484
12&15	2.2	4.1	29.1	47.9	15.4	1.3	.0	14.1	100.0	1480
18&21	2.6	2.9	30.0	48.7	14.6	1.1	.1	14.1	100.0	1490
TOT	150	207	1796	2852	871	64	3	13.9		5943
PCT	2.5	3.5	30.2	48.0	14.7	1.1	.1		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	.1	1.6	5.6		7.1
NE	.4	.2	.6	6.0		7.4
E	.4	.1	1.1	9.2		7.5
SE	.6	.3	1.9	12.6		7.4
S	1.5	.6	3.7	14.4		7.0
SW	2.0	.8	2.4	7.2		6.3
W	1.9	.6	3.0	7.4		6.4
NW	1.6	.4	2.9	6.5		6.6
VAR	.0	.0	.0	.0		.0
CALM	.2	.2	.4	1.7		6.8
TOT OBS	520	186	1041	4174	5921	6.9
TOT PCT	8.8	3.1	17.6	70.5	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	.6	*	.5	1.1	2.8	1.3	.1	*	.1	.1	1.2	
NE	1.0	*	1.0	1.3	2.2	.4	.1	*	.1	.1	1.0	
E	2.1	.2	1.7	1.5	2.7	.7	.3	.1	.1	.1	1.2	
SE	3.8	.3	1.5	1.7	3.0	1.2	.3	.2	.2	.3	2.6	
S	5.2	.1	1.5	2.0	3.3	1.4	.4	.3	.3	.6	5.1	
SW	2.0	.1	.7	1.0	2.1	1.0	.2	.2	.2	.4	4.4	
W	1.1	*	.8	1.2	3.8	1.6	.2	.1	.1	.2	3.8	
NW	.6	.1	.5	1.3	4.2	1.7	.1	*	.1	.1	2.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	*	.3	.2	.6	.2	*	.1	.1	.0	.9	
TOT OBS	1000	47	503	669	1458	559	105	59	67	129	1325	5921
TOT PCT	16.9	.8	8.5	11.3	24.6	9.4	1.8	1.0	1.1	2.2	22.4	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	1.9	3.1	3.2	3.3	3.3	3.3	3.3	3.3
* OR >5000	2.2	4.0	4.1	4.2	4.3	4.3	4.3	4.3
* OR >3500	3.2	5.7	5.9	6.0	6.0	6.1	6.1	6.1
* OR >2000	8.6	14.8	15.3	15.4	15.5	15.5	15.5	15.5
* OR >1000	19.3	37.6	39.4	39.8	40.0	40.1	40.1	40.1
* OR >600	21.3	45.5	49.8	50.8	51.3	51.4	51.4	51.4
* OR >300	22.0	49.3	56.3	58.5	59.4	59.8	59.9	59.9
* OR >150	22.0	49.4	56.6	58.9	60.0	60.5	60.6	60.7
* OR > 0	22.0	49.5	57.0	60.0	63.4	68.5	76.0	77.6
TOTAL	1301	2931	3376	3551	3754	4055	4500	4595

TOTAL NUMBER OF OBS: 5921 PCT FREQ NH <5/8: 22.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.6	4.7	4.7	2.0	1.4	2.9	5.9	6.4	45.6	16.8	5932

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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	.1	.2	.5	.7	.7	.9	.2	*	.0	.1	2.7	
<1/2	NO PCP	.4	.7	1.4	2.5	3.8	1.9	.8	.4	.0	.5	11.9	
	TOT %	.5	.8	1.8	3.2	4.5	1.8	1.0	.5	.0	.5	14.5	
	PCP	.1	.1	.2	.3	.2	.1	.1	*	.0	.0	1.0	
1/2<1	NO PCP	.1	.2	.3	.7	.7	.3	.2	.1	.0	.1	2.6	
	TOT %	.2	.3	.5	1.0	.9	.4	.2	.1	.0	.1	3.6	
	PCP	*	.2	.4	.4	.2	.1	*	.1	.0	.0	1.4	
1<2	NO PCP	*	.1	.2	.3	.7	.1	.1	.2	.0	*	1.8	
	TOT %	.1	.4	.6	.7	.9	.2	.1	.2	.0	*	3.2	
	PCP	.4	.6	1.0	1.1	.7	.2	.4	.2	.0	*	4.6	
2<5	NO PCP	.1	.3	.5	.7	.8	.4	.3	.2	.0	.1	3.4	
	TOT %	.5	.9	1.4	1.8	1.6	.6	.7	.4	.0	.1	8.0	
	PCP	.8	.9	1.3	1.6	1.5	.8	.7	.6	.0	.1	8.4	
5<10	NO PCP	2.1	1.9	2.5	3.1	4.8	3.4	4.1	3.3	.0	.7	26.0	
	TOT %	2.9	2.8	3.8	4.8	6.4	4.9	4.8	3.8	.0	.8	34.4	
	PCP	.2	.1	.1	.2	.1	.1	.1	.2	.0	.0	1.0	
10+	NO PCP	3.4	1.9	2.5	3.9	5.9	4.9	5.9	5.9	.0	1.0	35.3	
	TOT %	3.6	2.0	2.6	4.0	6.0	5.0	6.0	6.1	.0	1.0	36.3	
	TOT OBS												5913
	TOT PCT	7.8	7.1	10.7	15.4	20.2	12.2	12.8	11.1	.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
	0-3	.1	*	.1	.1	.2	.1	.1	.1	.0	.5	1.2	
<1/2	4-10	.2	.5	.8	.9	1.1	.9	.6	.2	.0		5.2	
	11-21	.2	.2	.8	1.8	2.7	.8	.3	.2	.0		7.0	
	22+	*	*	.1	.4	.4	.1	*	*	.0		1.0	
	TOT %	.5	.8	1.8	3.1	4.4	1.8	.9	.5	.0	.5	14.5	
	0-3	.0	*	*	.0	*	*	.0	.0	.0	.1	.1	
1/2<1	4-10	.1	.1	.2	.2	.2	.1	.1	.1	.0		1.1	
	11-21	.1	.1	.2	.6	.5	.2	.1	*	.0		1.8	
	22+	*	.1	.1	.2	.2	*	*	*	.0		.6	
	TOT %	.2	.3	.5	1.0	.9	.4	.2	.1	.0	.1	3.6	
	0-3	.0	.1	.0	*	.1	*	.0	.0	.0	*	.2	
1<2	4-10	*	.1	.1	.2	.2	.1	*	.1	.0		.8	
	11-21	*	.1	.3	.2	.5	.1	*	.1	.0		1.4	
	22+	*	.1	.3	.2	.2	*	*	*	.0		.8	
	TOT %	.1	.3	.6	.7	.9	.2	.1	.2	.0	*	3.2	
	0-3	.0	*	*	.0	*	.0	*	*	.0	.1	.2	
2<5	4-10	.1	.2	.2	.5	.4	.2	.2	.1	.0		1.9	
	11-21	.2	.4	.7	.8	.7	.3	.3	.2	.0		3.6	
	22+	.1	.3	.5	.6	.4	.1	.1	.1	.0		2.2	
	TOT %	.5	.9	1.4	1.8	1.6	.6	.7	.4	.0	.1	7.9	
	0-3	.1	.2	.2	.2	.2	.1	.1	.1	.0	.8	2.0	
5<10	4-10	.7	.7	1.2	1.6	1.5	1.0	1.2	.9	.0		8.8	
	11-21	1.4	1.0	1.7	2.2	3.3	2.1	2.5	1.8	.0		16.1	
	22+	.7	.9	.7	.7	1.4	.9	1.0	1.0	.0		7.3	
	TOT %	2.9	2.8	3.8	4.8	6.3	4.2	4.8	3.8	.0	.8	34.3	
	0-3	.3	.1	.1	.1	.1	.2	.2	.2	.0	1.0	2.3	
10+	4-10	1.4	.8	1.0	1.5	1.9	1.7	2.2	1.9	.0		12.4	
	11-21	1.6	1.0	1.2	2.2	3.2	2.7	3.1	3.2	.0		18.1	
	22+	.3	.1	.2	.3	.8	.5	.7	.8	.0		3.8	
	TOT %	3.6	2.0	2.6	4.1	6.1	5.1	6.1	6.1	.0	1.0	36.5	
	TOT OBS												5941
	TOT PCT	7.8	7.1	10.7	15.4	20.2	12.3	12.8	11.1	.0	2.5	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	18.4	.5	8.2	9.9	24.4	9.7	2.1	1.5	1.0	2.0	77.7	22.3	1482
06&09	17.1	.9	8.1	11.4	26.4	10.0	1.8	.9	1.3	2.2	80.2	19.8	1483
12&15	16.1	1.2	9.5	12.8	23.6	8.8	1.6	.7	1.1	1.9	77.3	22.7	1473
18&21	15.9	.5	8.2	11.2	24.1	9.2	1.6	.8	1.1	2.6	75.3	24.7	1485
TOT	1000	47	503	670	1458	559	105	59	67	129	4597	1326	5923
PCT	16.9	.8	8.5	11.3	24.6	9.4	1.8	1.0	1.1	2.2	77.6	22.4	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	15.1	4.0	3.0	7.9	33.5	36.5	1488
06&09	15.2	3.4	3.0	8.8	34.8	34.9	1485
12&15	13.6	3.6	3.6	8.6	34.5	35.9	1480
18&21	14.0	3.4	3.2	6.3	34.2	38.9	1491
TOT	861	213	190	471	2037	2172	5944
PCT	14.5	3.6	3.2	7.9	34.3	36.5	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	18.4	27.8	40.6	38.4	21.0	1481
06&09	17.3	27.2	41.5	39.6	18.8	1483
12&15	16.2	27.9	42.8	35.4	21.8	1473
18&21	15.9	25.9	39.2	36.9	23.9	1484
TOT	1004	1610	2429	2226	1266	5921
PCT	17.0	27.2	41.0	37.6	21.4	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
55/59	.0	.0	.0	.0	.0	.1	*	.0	4	.1
50/54	.0	.0	.0	.0	.1	.7	4.2	4.0	529	9.0
45/49	.0	.0	.0	.0	.2	3.1	16.2	47.7	3945	67.1
40/44	.0	.0	.0	.0	.2	1.9	6.8	14.7	1386	23.6
35/39	.0	.0	.0	.0	.0	.0	*	.2	12	.2
TOTAL	0	0	0	0	29	340	1600	3907	5876	100.0
PCT	.0	.0	.0	.0	.5	5.8	27.2	66.5		

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	.4	.7	1.4	2.8	1.7	.8	.5	.0	.4
	4.5	5.0	8.1	11.8	14.2	7.9	8.0	6.2	.0	1.4
	3.0	1.7	1.8	2.2	3.1	2.6	3.9	4.4	.0	.8
	.0	.0	*	*	*	*	.1	*	.0	.0
	7.8	7.1	10.7	15.4	20.1	12.3	12.9	11.2	.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	52	51	50	46	42	40	39	45.7	1488
06&09	53	51	49	46	41	40	37	45.5	1485
12&15	54	53	51	46	43	41	38	46.5	1480
18&21	56	53	51	47	43	42	40	46.9	1492
TOT	56	52	50	46	42	40	37	46.2	5945

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	.4	4.4	25.5	69.8	92	1488
06&09	.0	.0	.3	3.9	22.6	73.2	93	1472
12&15	.0	.0	.4	7.2	30.2	62.2	91	1459
18&21	.0	.0	.9	7.7	30.7	60.7	91	1480
TOT	0	0	29	341	1600	3909	92	5879

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1948-1972

AREA 0002 OSV BRAVO
56.9N 51.0W

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	37 40	41 44	45 48	49 52	53 56	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	*	2	.0	*
9/10	.0	.0	.0	.2	.1	12	.0	.2
7/8	.0	.0	.1	.6	.1	47	*	.8
6	.0	.0	.4	.7	.1	73	.1	1.1
5	.0	.0	.8	1.2	.1	128	.2	1.9
4	.0	.1	2.2	2.1	.1	263	.6	3.8
3	.0	.2	4.8	3.5	.1	503	1.9	6.6
2	.0	1.1	10.1	3.7	*	883	3.5	11.4
1	.0	3.2	15.7	2.4	.0	1257	4.6	10.7
0	*	5.0	13.3	1.0	*	1144	4.6	14.7
-1	.1	5.8	7.9	.4	.0	837	2.6	11.6
-2	.2	4.0	3.1	.2	.0	438	1.4	6.0
-3	.3	2.3	1.0	.1	.0	217	.7	3.0
-4	.2	.9	.2	*	.0	79	.3	1.1
-5	.1	.3	*	.0	.0	22	.1	.3
-6	*	*	*	.0	.0	4	.0	.1
-7/-8	.0	.1	*	.0	.0	4	.0	.1
TOTAL	56	1355	3524	940	38	5913	1221	4692
PCT	.9	22.9	59.6	15.9	.6	100.0	20.6	79.4

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	.5	.0	.0	.0	.0	.8
1-2	.1	.9	.2	.0	.0	.0	1.3
3-4	.0	1.0	1.3	.0	.0	.0	2.2
5-6	.0	.1	1.2	.0	.0	.0	1.3
7	.0	.1	.6	.2	.0	.0	.9
8-9	.0	.0	.2	.3	.0	.0	.5
10-11	.0	.0	.1	.3	.1	.0	.4
12	.0	.0	*	.2	.1	.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	.4	2.6	3.6	1.1	.2	.0	7.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	.0	.0	.0	.0	.7
1-2	.1	.5	.2	.0	.0	.0	.8
3-4	.0	.3	.9	.0	.0	.0	1.2
5-6	.0	*	.7	.1	.0	.0	.8
7	.0	.1	.5	.1	.0	.0	.6
8-9	*	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.2	.2	.0	.0	.3
12	.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	.2	1.5	2.7	.5	*	.0	4.9

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	*	1.1	.5	.0	.0	.0	1.6
3-4	.0	1.0	1.4	*	.0	.0	2.4
5-6	.0	.2	1.2	.0	.0	.0	1.4
7	.0	.1	.9	.2	.0	.0	1.2
8-9	*	.0	.2	.4	.1	.0	.7
10-11	.0	*	.2	.3	.0	.0	.5
12	.0	.0	*	.1	*	.0	.2
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	.3	3.2	4.4	1.2	.1	.0	9.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	.0	.0	.0	.0	1.0
1-2	*	1.3	.8	.0	.0	.0	2.1
3-4	*	1.4	2.6	*	.0	.0	4.1
5-6	.0	.3	2.0	.3	.0	.0	2.5
7	.0	.1	2.1	.5	.0	.0	2.6
8-9	.0	*	.6	.5	*	.0	1.2
10-11	.0	*	.2	.5	.1	.0	.8
12	.0	.0	.0	*	*	.0	*
13-16	.0	.0	.0	.1	.1	.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	4.0	8.3	1.8	.2	.0	14.6

PERIOD: (OVER-ALL) 1963-1972

JULY

AREA 0002 OSV BRAVO
56.5N 51.0W

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	1.2	.0	.0	.0	.0	1.5
1-2	.1	1.9	.8	.0	.0	.0	2.8
3-4	.0	1.7	3.6	.2	.0	.0	5.4
5-6	.0	.2	2.9	.2	.0	.0	3.4
7	.0	.2	3.0	.8	.0	.0	4.1
8-9	.0	.1	1.8	1.0	.0	.0	2.9
10-11	.0	*	.6	.9	.0	.0	1.5
12	.0	.0	.1	.3	.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	.4	5.3	12.8	3.4	.0	.0	21.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	*	.0	.0	.0	1.1
1-2	*	1.3	.8	.0	.0	.0	2.2
3-4	*	1.2	1.3	.1	.0	.0	2.7
5-6	.0	.2	1.7	.2	.0	.0	2.1
7	*	.1	1.1	.2	*	.0	1.5
8-9	.0	.1	1.0	.5	.0	.0	1.5
10-11	.0	.0	.5	.4	.0	.0	.9
12	.0	.0	.1	.3	.1	.0	.4
13-16	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	3.7	6.6	1.5	.1	.0	12.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.1	.0	.0	.0	.0	1.3
1-2	*	1.3	.5	.0	.0	.0	1.9
3-4	*	1.1	2.0	.1	.0	.0	3.3
5-6	*	.5	1.8	.1	.0	.0	2.4
7	.0	.1	.9	.3	*	.0	1.4
8-9	.0	*	.5	.3	*	.0	.8
10-11	.0	.0	.1	.6	.0	.0	.8
12	.0	.0	.1	.3	.1	.0	.5
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	4.2	6.0	1.8	.2	.0	12.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	1.1	.0	.0	.0	.0	1.4	
1-2	.1	1.5	.6	.0	.0	.0	2.2	
3-4	.0	1.3	2.1	.0	.0	.0	3.4	
5-6	.0	.3	2.1	.1	.0	.0	2.4	
7	.0	.2	1.6	.5	.0	.0	2.4	
8-9	.0	.0	.6	.3	*	.0	.9	
10-11	.0	.0	.1	.5	*	.0	.6	
12	.0	.0	.0	.2	*	.0	.2	
13-16	.0	.0	.0	.1	.1	.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	4.4	7.1	1.7	.2	.0	13.7	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	4.7	7.0	*	.0	.0	.0	11.7	
1-2	.5	9.8	4.6	.0	.0	.0	14.9	
3-4	.3	8.9	15.2	.4	.0	.0	24.9	
5-6	*	1.9	13.5	.9	.0	.0	16.3	
7	*	1.0	10.7	2.8	.1	.0	14.7	
8-9	*	.2	5.0	3.3	.1	.0	8.7	
10-11	.0	.1	2.0	3.5	.2	.0	5.7	
12	.0	.0	.3	1.5	.3	.0	2.2	
13-16	.0	.0	.0	.6	.2	.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	
								2326
TOT PCT	5.6	29.0	51.4	13.1	.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	5.0	11.8	7.4	4.6	1.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1752	4
6-7	.0	1.4	6.4	9.8	10.4	6.2	4.0	1.5	.7	*	*	.0	.0	.0	.0	.0	.0	.0	.0	2326	6
8-9	.0	.2	1.3	1.9	3.6	2.7	2.0	1.7	1.4	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	856	8
10-11	.0	.1	.2	.2	.7	.4	.4	.7	1.0	.2	.3	*	.0	.0	.0	.0	.0	.0	.0	240	11
12-13	.0	.0	.1	.1	.1	*	.1	.1	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	32	9
>13	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	4	10
INDET	1.3	1.9	3.1	2.0	.8	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	544	3
TOTAL	81	501	1317	1233	1165	609	387	238	183	18	19	3	0	0	0	0	0	0	0	5754	6
PCT	1.4	8.7	22.9	21.4	20.2	10.6	6.7	4.1	3.2	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1954-1972
(OVER-ALL) 1949-1972

AREA 0002 OSV BRAVO
56.5N 51.0W

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	10.9	3.5	4.0	.0	.0	.0	.0	18.4	4.3	.0	3.9	.4	.0	.0		73.0
NE	18.2	2.7	9.3	.0	.0	.0	.0	30.1	4.6	.0	9.6	.5	.1	.0		55.1
E	24.9	1.8	10.6	.0	.0	.0	.0	37.3	4.4	.0	12.4	.2	.1	.0		45.7
SE	22.3	1.4	6.9	.0	.0	.0	.0	30.6	3.9	.0	18.7	.5	.1	.0		46.2
S	14.1	.7	5.2	.0	.0	.0	.0	20.0	1.9	.0	21.6	.9	.4	.0		55.2
SW	6.7	1.7	4.7	.0	.0	.0	.0	13.1	2.8	.0	10.6	.4	.2	.0		72.9
W	4.3	2.5	5.1	.0	.0	.0	.0	11.8	4.0	.0	6.8	.8	.0	.0		76.5
NW	5.3	3.8	2.9	.0	.0	.0	.0	12.0	4.6	.0	3.5	.3	.0	.1		79.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	10.3	.0	6.0	.0	.0	.0	.0	16.2	.9	.0	21.4	.9	.0	.0		60.7
TOT PCT	13.0	2.1	5.9	.0	.0	.0	.0	21.0	3.6	.0	11.8	.5	.1	*		62.9
TOT OBS:	5600															

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	14.3	2.6	6.3	.0	.0	.0	.0	23.1	3.1	.0	10.9	.3	.1	.0		62.5
06&09	14.6	2.3	7.5	.0	.0	.0	.0	24.4	3.8	.0	10.5	.4	.1	.0		60.7
12&15	11.9	1.9	5.1	.0	.0	.0	.0	18.9	4.4	.0	13.2	.7	.2	.1		62.5
18&21	11.3	1.6	4.7	.0	.0	.0	.0	17.7	3.1	.0	12.7	.6	.1	.0		65.8
TOT PCT	13.0	2.1	5.9	.0	.0	.0	.0	21.0	3.6	.0	11.8	.5	.1	*		62.9
TOT OBS:	5601															

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	3.5	3.1	.9	.2	.0		8.0	13.1	7.3	7.2	8.4	9.6	8.1	7.8	8.0	7.8
NE	.3	2.5	3.0	1.6	.1	.0		7.5	14.7	8.6	7.1	7.4	8.1	7.7	6.9	6.5	7.6
E	.3	3.2	5.4	2.4	.4	.0		11.7	15.8	11.2	11.3	11.5	11.3	11.8	12.0	12.5	11.8
SE	.3	3.5	7.3	3.2	.3	.0		14.5	16.1	15.5	15.7	13.2	14.3	14.8	16.0	13.0	13.5
S	.5	3.4	8.8	3.3	.1	.0		16.1	15.7	15.2	16.0	16.8	15.7	16.5	15.3	17.6	15.7
SW	.4	3.7	6.7	2.0	.2	.0		12.4	14.7	13.6	12.0	12.7	12.6	11.3	12.6	11.8	13.0
W	.3	4.0	6.0	2.5	.4	*		13.1	15.5	12.5	12.6	14.0	12.3	12.7	12.5	14.2	14.2
NW	.3	4.3	6.5	2.8	.4	*		14.5	15.6	14.2	14.2	14.0	14.2	14.8	15.5	14.8	14.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0	2.1	3.8	1.8	1.9	2.3	1.3	1.6	2.0
TOT OBS	273	1589	2599	1048	116	4	5629		15.0	707	704	704	701	701	703	705	704
TOT PCT	4.8	28.2	46.2	18.6	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	1.9	3.9	1.7	.5	*		8.0	13.1	7.3	9.0	8.0	7.9
NE	1.4	3.2	2.1	.7	.0		7.5	14.7	7.9	7.8	7.3	7.0
E	1.5	5.3	3.7	1.2	*		11.7	15.8	11.2	11.4	11.9	12.1
SE	1.7	6.2	5.2	1.3	*		14.5	16.1	15.6	13.8	15.4	13.3
S	1.8	7.4	6.1	.8	.0		16.1	15.7	15.6	16.3	15.9	16.7
SW	1.7	6.0	4.1	.6	.0		12.4	14.7	12.7	12.7	12.0	12.4
W	1.8	5.9	4.2	1.1	.1		13.1	15.5	12.6	13.1	12.6	14.2
NW	1.8	6.6	4.7	1.2	.1		14.5	15.6	14.2	14.1	15.1	14.6
VAR	.0	.0	.0	.0	.0		.8	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	3.0	1.9	1.8	1.8
TOT OBS	889	2506	1801	420	13	5629		15.0	1411	1405	1404	1409
TOT PCT	15.8	44.5	32.0	7.5	.2		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	3.0	2.0	27.9	47.1	17.1	2.1	.1	14.8	100.0	1411
06&09	1.9	3.1	28.8	44.1	19.9	2.1	.1	15.0	100.0	1405
12&15	1.8	2.3	28.8	45.6	19.9	1.5	.1	15.1	100.0	1404
18&21	1.8	2.8	27.5	47.8	17.5	2.6	.0	15.1	100.0	1409
TOT	118	155	1589	2599	1048	116	4	15.0		5629
PCT	2.1	2.8	28.2	46.2	18.6	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 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	.3	2.4	4.7		6.9
NE	.4	.2	1.3	5.6		7.2
E	.1	.1	1.1	10.3		7.7
SE	.6	.3	2.2	11.3		7.3
S	1.9	.5	2.8	11.0		6.8
SW	2.3	.7	3.1	6.4		6.1
W	2.4	.9	3.2	6.6		6.0
NW	1.4	.8	5.2	7.2		6.5
VAR	.0	.0	.0	.0		.0
CALM	.2	*	.5	1.4		6.9
TOT OBS	556	212	1228	3623	5619	6.8
TOT PCT	9.9	3.8	21.9	64.5	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	.2	*	.2	1.1	2.9	1.6	.1	*	*	.1	1.7	
NE	.5	*	.6	1.4	2.2	1.0	.1	.2	*	.2	1.4	
E	1.6	.1	1.5	2.0	3.7	1.2	.2	*	.1	.1	1.2	
SE	2.3	.1	1.6	1.9	3.2	1.7	.3	.2	.1	.4	2.8	
S	2.6	.1	1.1	1.7	2.8	1.5	.3	.3	.3	.9	4.6	
SW	.9	*	.6	.8	2.4	1.8	.2	.2	.2	.7	4.6	
W	.7	*	.6	1.0	3.4	2.1	.1	.1	.2	.3	4.5	
NW	.3	*	.5	1.1	5.4	3.4	.1	.1	.1	.1	3.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.0	.1	.2	.6	.2	*	*	.0	.1	.5	
TOT OBS	534	23	386	633	1485	813	80	64	53	156	1392	5619
TOT PCT	9.5	.4	6.9	11.3	26.4	14.5	1.4	1.1	.9	2.8	24.8	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	2.6	3.5	3.6	3.6	3.7	3.7	3.7	3.7
* OR >5000	3.1	4.6	4.7	4.8	4.8	4.8	4.9	4.9
* OR >3500	3.7	6.0	6.1	6.2	6.3	6.3	6.3	6.3
* OR >2000	12.1	20.3	20.5	20.7	20.7	20.7	20.8	20.8
* OR >1000	24.4	44.7	46.5	47.0	47.1	47.1	47.2	47.2
* OR >600	26.2	52.4	56.6	57.7	58.3	58.4	58.4	58.4
* OR >300	26.6	55.4	61.9	64.1	65.1	65.2	65.3	65.3
* OR >150	26.6	55.5	62.1	64.3	65.4	65.6	65.7	65.7
* OR > 0	26.6	55.5	62.2	64.7	67.4	70.4	74.5	75.2
TOTAL	1494	3120	3494	3638	3789	3955	4186	4228

TOTAL NUMBER OF OBS: 5621 PCT FREQ NH <5/8: 24.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.6	5.9	6.0	3.4	1.9	4.4	8.6	8.8	44.1	9.4	5623

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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	.5	.4	.4	*	.1	*	.0	.1	1.8	
	NO PCP	.1	.2	.7	1.6	1.9	.7	.5	.2	.0	.3	6.2	
	TOT %	.2	.3	1.2	2.0	2.4	.8	.6	.3	.0	.4	8.0	
1/2<1	PCP	*	.1	.5	.3	.1	*	*	.1	.0	.0	1.2	
	NO PCP	*	.2	.3	.3	.4	.1	.2	*	.0	*	1.6	
	TOT %	.1	.3	.8	.6	.5	.2	.2	.1	.0	*	2.8	
1<2	PCP	.1	.1	.4	.4	.3	.1	.1	.1	.0	.0	1.6	
	NO PCP	.1	.1	.2	.2	.3	.1	.1	.1	.0	*	1.1	
	TOT %	.2	.2	.5	.7	.6	.2	.1	.2	.0	*	2.8	
2<5	PCP	.4	.5	1.1	.9	.6	.4	.3	.4	.0	*	4.5	
	NO PCP	.1	.2	.3	.4	.7	.3	.1	.2	.0	*	2.3	
	TOT %	.4	.7	1.3	1.3	1.3	.7	.4	.5	.0	.1	6.8	
5<10	PCP	.8	1.3	1.7	2.3	1.6	.9	.9	.9	.0	.2	10.6	
	NO PCP	2.3	2.2	2.8	2.8	3.5	3.0	3.5	3.6	.0	.3	24.1	
	TOT %	3.0	3.5	4.5	5.1	5.2	3.9	4.5	4.5	.0	.6	34.8	
10+	PCP	.2	.1	.2	.2	.1	.1	.1	.3	.0	.0	1.2	
	NO PCP	4.0	2.4	3.1	4.7	6.1	6.8	7.2	8.6	.0	1.0	43.6	
	TOT %	4.2	2.5	3.3	4.9	6.2	6.6	7.3	8.8	.0	1.0	44.9	
	TOT OBS												5600
	TOT PCT	8.0	7.5	11.7	14.5	16.2	12.4	13.1	14.5	.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	*	.1	.1	*	*	*	.0	.4	.6	
	4-10	.1	.1	.4	.5	.4	.3	.4	.1	.0		2.3	
	11-21	*	.2	.6	1.1	1.5	.4	.2	.1	.0		4.1	
	22+	*	*	.2	.3	.3	*	.0	*	.0		.9	
	TOT %	.2	.3	1.2	1.9	2.3	.8	.6	.2	.0	.4	8.0	
1/2<1	0-3	.0	.0	.0	*	*	.0	*	*	.0	*	.1	
	4-10	*	.1	.3	.2	.1	.1	.1	*	.0		.9	
	11-21	*	.1	.4	.2	.3	.1	.1	*	.0		1.2	
	22+	*	.1	.2	.2	.1	*	*	.1	.0		.6	
	TOT %	.1	.3	.8	.6	.5	.2	.2	.1	.0	*	2.8	
1<2	0-3	.0	.0	*	.0	.0	.0	.0	*	.0	*	.1	
	4-10	.1	.1	.1	.1	.1	.1	*	*	.0		.6	
	11-21	.1	.1	.2	.4	.3	.1	.0	.1	.0		1.2	
	22+	*	*	.2	.2	.2	*	.1	.1	.0		.9	
	TOT %	.2	.2	.5	.7	.6	.2	.1	.2	.0	*	2.7	
2<5	0-3	.0	*	.0	.0	*	*	.0	.0	.0	.1	.1	
	4-10	.1	.1	.2	.1	.1	.2	.1	.1	.0		1.1	
	11-21	.2	.3	.6	.6	.6	.3	.2	.2	.0		3.0	
	22+	.2	.3	.6	.6	.5	.1	.1	.2	.0		2.6	
	TOT %	.4	.7	1.3	1.3	1.3	.7	.4	.5	.0	.1	6.8	
5<10	0-3	.1	.2	.1	.1	.2	.2	.2	.1	.0	.6	1.6	
	4-10	1.4	1.1	1.0	1.0	.9	1.0	.9	1.2	.0		8.5	
	11-21	1.0	1.5	2.2	2.6	2.9	1.8	2.0	1.9	.0		16.0	
	22+	.5	.8	1.3	1.4	1.1	.9	1.3	1.4	.0		8.6	
	TOT %	3.0	3.5	4.5	5.1	5.1	3.9	4.4	4.5	.0	.6	34.7	
10+	0-3	.2	.1	.2	.1	.2	.2	.1	.2	.0	1.0	2.4	
	4-10	1.9	1.0	1.3	1.6	1.8	2.1	2.4	2.9	.0		14.8	
	11-21	1.7	.9	1.5	2.4	3.1	3.4	3.5	4.3	.0		20.8	
	22+	.4	.5	.3	.8	1.1	1.0	1.3	1.6	.0		7.0	
	TOT %	4.2	2.5	3.3	4.9	6.2	6.7	7.3	8.9	.0	1.0	45.1	
	TOT OBS												5625
	TOT PCT	8.0	7.5	11.7	14.5	16.1	12.4	13.1	14.5	.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	9.3	.4	6.5	11.1	28.4	14.5	1.1	1.2	1.1	2.9	74.4	25.6	1409
06&09	9.9	.1	6.1	10.5	28.0	18.4	1.8	1.2	.9	2.9	75.7	24.3	1402
12&15	9.2	.6	7.3	12.1	28.4	12.0	1.4	1.0	.9	2.4	75.3	24.7	1403
18&21	9.6	.6	7.7	11.4	24.8	15.0	1.3	1.1	1.0	3.0	75.5	24.5	1409
TOT	534	23	387	633	1485	815	80	64	53	156	4230	1393	5623
PCT	9.5	.4	6.9	11.3	26.4	14.5	1.4	1.1	.9	2.8	75.2	24.8	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	8.6	1.9	2.7	6.7	36.7	43.4	1409
06&09	8.1	3.1	1.9	7.3	37.1	42.4	1404
12&15	7.5	3.3	2.8	6.9	34.0	45.5	1405
18&21	7.7	2.6	3.5	6.2	30.9	49.1	1411
TOT	449	155	154	382	1951	2538	5629
PCT	8.0	2.8	2.7	6.8	34.7	45.1	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	9.2	16.9	29.7	45.1	25.2	1408
06&09	9.9	17.2	30.2	45.9	23.9	1402
12&15	9.2	18.1	32.2	49.7	24.1	1403
18&21	9.6	18.6	31.9	44.0	24.1	1408
TOT	533	995	1743	2510	1368	5621
PCT	9.5	17.7	31.0	44.7	24.3	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
55/59	.0	.0	.0	.0	.0	*	.1	.0	8	.1
50/54	.0	.0	.0	*	.4	1.8	12.3	13.3	1565	27.8
45/49	.0	.0	.0	*	.9	8.6	21.1	37.6	3840	68.2
40/44	.0	.0	.0	.0	.1	.7	1.4	1.7	214	3.8
35/39	.0	.0	.0	.0	.0	.0	*	.0	1	*
TOTAL	0	0	0	3	83	623	1964	2955	5628	100.0
PCT	.0	.0	.0	.1	1.5	11.1	34.9	52.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	*	*	*	*	*	.0	.0	.0
1.0	1.3	3.4	5.7	6.6	4.5	3.0	1.7	.0	.6
6.4	5.9	8.1	8.6	9.2	7.4	9.4	11.9	.0	1.4
.6	.3	.2	.2	.3	.5	.7	1.0	.0	.1
.0	.0	.0	*	.0	.0	.0	.0	.0	.0
8.0	7.5	11.7	14.5	16.1	12.4	13.1	14.5	.0	2.1

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	55	53	51	48	45	43	38	48.0	1411
06&09	54	52	51	48	44	42	41	47.8	1405
12&15	58	53	52	49	45	43	40	48.5	1404
18&21	56	53	52	49	45	44	43	48.8	1412
TOT	58	53	52	48	45	43	38	48.3	5632

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	1.9	10.7	31.7	55.7	90	1411
06&09	.0	.1	1.3	9.8	30.8	57.9	90	1405
12&15	.0	.0	1.3	11.2	38.5	49.1	89	1404
18&21	.0	.1	1.4	12.6	38.6	47.3	88	1412
TOT	0	3	83	624	1965	2957	89	5632

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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	37 40	41 44	45 48	49 52	53 56	57 60	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.2	.1	.0	14	.0	.3
7/8	.0	.0	.0	.3	.1	.0	22	*	.4
6	.0	.0	.0	.4	.1	*	32	.1	.5
5	.0	.0	.1	1.0	.2	.0	71	.1	1.1
4	.0	*	.3	1.4	.3	.0	110	.4	1.6
3	.0	.0	.6	3.5	.6	.0	280	.8	3.9
2	.0	.0	2.0	8.5	.2	.0	598	1.5	9.2
1	.0	.1	6.0	12.2	.3	.0	1040	3.3	15.3
0	.0	.2	10.9	9.4	.1	.0	1158	2.3	18.4
-1	*	.3	13.1	4.9	.0	.0	1024	1.9	16.4
-2	*	.6	9.4	1.7	.0	.0	661	.7	11.2
-3	.0	.9	5.3	.5	.0	.0	370	.5	6.1
-4	.0	1.1	1.6	.2	.0	.0	185	.2	2.7
-5	*	.5	.8	*	.0	.0	80	.1	1.0
-6	.0	.1	.1	.0	.0	.0	9	.0	.2
TOTAL	3	210	2794	2475	111	1	5594	661	4933
PCT	.1	3.8	49.9	44.2	2.0	*	100.0	11.8	88.2

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	.2	.6	.0	.0	.0	.0	.8
1-2	*	1.3	.1	.0	.0	.0	1.4
3-4	.0	.7	.7	.1	.0	.0	1.5
5-6	.0	.6	.8	.1	.0	.0	1.6
7	*	.1	.7	.3	.0	.0	1.1
8-9	.0	.1	.3	.3	.0	.0	.7
10-11	.0	.0	.2	.2	.0	.0	.5
12	.0	.0	*	.2	*	.0	.3
13-16	.0	.0	.0	.2	.0	.0	.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	.3	3.4	3.0	1.3	.1	.0	8.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.5	.0	.0	.0	.0	.6
1-2	.1	1.0	.2	.0	.0	.0	1.3
3-4	.0	.7	1.3	.1	.0	.0	2.1
5-6	.0	.1	.7	.1	.0	.0	.9
7	.0	.1	.5	.3	.0	.0	.8
8-9	.0	*	.3	.4	.0	.0	.7
10-11	.0	.0	.2	.6	*	.0	.7
12	.0	.0	.1	.2	.0	.0	.2
13-16	.0	.0	*	.3	.0	.0	.6
17-19	.0	.0	.0	.1	.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	.1	2.4	3.2	2.1	.1	.0	7.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4
1-2	.1	1.3	.5	.0	.0	.0	1.9
3-4	*	1.1	.9	.0	.0	.0	2.0
5-6	.0	.3	1.3	.2	.0	.0	1.8
7	.0	.3	1.7	.6	.0	.0	2.6
8-9	.0	.0	.9	.5	.0	.0	1.5
10-11	.0	.0	.4	.4	.1	.0	.9
12	.0	.0	.1	.2	.0	.0	.3
13-16	.0	.0	*	.3	*	.0	.4
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	.3	3.2	5.8	2.4	.1	.0	11.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	*	.0	.0	.0	.8
1-2	.0	1.2	.5	.0	.0	.0	1.7
3-4	.0	.7	1.5	.1	.0	.0	2.3
5-6	.0	.3	2.5	.4	.0	.0	3.2
7	.0	.2	1.8	.7	.0	.0	2.5
8-9	.0	.0	1.0	.5	.0	.0	1.5
10-11	.0	.0	.1	.6	.0	.0	.8
12	.0	*	*	.6	.1	.0	.8
13-16	.0	.0	.1	.3	*	.0	.4
17-19	.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	3.1	7.4	3.2	.2	.0	14.1

PERIOD: (OVER-ALL) 1963-1972 AUGUST AREA 0002 OSV BRAVO

TABLE 18 (CONT) 56.5N 51.0W

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	.6	*	.0	.0	.0	.8
1-2	*	1.1	.4	.0	.0	.0	1.5
3-4	*	1.2	2.0	*	.0	.0	3.3
5-6	.0	.2	2.5	.2	.0	.0	2.9
7	.0	.1	3.0	.8	.0	.0	3.9
8-9	.0	*	.5	1.1	.0	.0	1.7
10-11	.0	.0	.2	.9	.0	.0	1.2
12	.0	.0	.2	.3	.0	.0	.6
13-16	.0	.0	.2	.1	*	.0	.3
17-19	.0	.0	.0	*	*	.0	.1
20-22	.0	.0	.0	.0	.1	.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	3.2	9.1	3.4	.2	.0	16.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.6
1-2	.1	1.2	.2	.0	.0	.0	1.4
3-4	.0	1.1	1.5	*	.0	.0	2.7
5-6	.0	.3	1.8	.2	.0	.0	2.3
7	.0	.1	1.4	.4	.0	.0	1.9
8-9	.0	*	.8	.5	.0	.0	1.4
10-11	.0	.0	.3	.5	.0	.0	.8
12	.0	.0	.1	.1	.1	.0	.3
13-16	.0	.0	.0	.1	*	.0	.2
17-19	.0	.0	.0	*	.1	.0	.1
20-22	.0	.0	.0	*	*	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	3.2	6.1	1.9	.2	.0	11.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.3	.0	.0	.0	.0	.3
1-2	*	1.0	.2	.0	.0	.0	1.2
3-4	.0	1.3	1.8	.0	.0	.0	3.1
5-6	.0	.5	1.5	.2	.0	.0	2.1
7	.0	.3	1.3	.6	.0	.0	2.1
8-9	.0	.1	.6	.3	.0	.0	.9
10-11	.0	.0	.4	.2	.0	.0	.5
12	.0	.0	*	.2	*	.0	.3
13-16	.0	.0	*	.2	.1	.0	.3
17-19	.0	.0	.0	.1	.1	.0	.2
20-22	.0	.0	.0	*	.1	.0	.1
23-25	.0	.0	.0	.0	*	.0	*
26-32	.0	.0	.0	.0	.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	.1	3.4	5.8	1.8	.3	.1	11.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.5	.0	.0	.0	.0	.7	
1-2	.1	1.7	.4	.0	.0	.0	2.2	
3-4	.0	1.5	2.0	.1	.0	.0	3.5	
5-6	*	.6	2.4	.2	.0	.0	3.3	
7	*	.1	1.8	.7	.0	.0	2.7	
8-9	.0	.1	.9	.6	.0	.0	1.7	
10-11	.0	*	.6	.5	.0	.0	1.1	
12	.0	.0	.1	.8	*	.0	.9	
13-16	.0	.0	.0	.1	.1	.0	.2	
17-19	.0	.0	.0	.3	*	.0	.3	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.1	.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	.3	4.7	8.1	3.2	.2	.1	16.5	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	2.7	3.7	*	.0	.0	.0	6.5	
1-2	.5	9.8	2.5	.0	.0	.0	12.8	
3-4	.3	8.3	11.7	.4	.0	.0	20.8	
5-6	*	3.0	13.5	1.5	.0	.0	18.0	
7	.1	1.4	11.9	4.2	.0	.0	17.6	
8-9	.0	.4	5.4	4.3	.0	.0	10.0	
10-11	.0	*	2.4	3.8	.1	.0	6.4	
12	.0	*	.7	2.6	.3	.0	3.6	
13-16	.0	.0	.4	1.9	.4	.0	2.7	
17-19	.0	.0	.0	.5	.5	.0	1.0	
20-22	.0	.0	.0	*	.3	.0	.3	
23-25	.0	.0	.0	.0	*	.0	*	
26-32	.0	.0	.0	.0	.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	3.7	26.7	48.6	19.4	1.5	.1	100.0	2222

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	.3	3.3	10.5	8.1	5.3	1.6	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1675	5
6-7	*	.9	5.7	7.1	12.1	6.6	3.4	2.7	.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2325	7
8-9	.0	.3	.8	1.4	2.9	3.4	4.3	2.7	2.4	.7	.1	*	.1	.0	.0	.0	.0	.0	.0	1070	9
10-11	.0	*	.1	.2	.3	.3	.5	.7	.6	.1	*	.0	.1	.0	.0	.0	.0	.0	.0	163	11
12-13	.0	.0	.0	.0	.0	*	*	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	13
>13	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	2	18
INDET	.7	.8	2.2	.9	.9	.4	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	346	4
TOTAL	54	298	1081	988	1197	685	624	358	230	96	12	1	9	0	0	0	0	0	0	5599	7
PCT	1.0	5.3	19.3	17.7	21.4	12.2	11.2	6.4	4.1	1.0	.2	*	.2	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1948-1972

AREA 0002 OSV BRAVO
56.5N 51.1W

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 SNOW	NO SIG WEA
N	12.2	6.8	3.5	.0	.6	.0	.0	22.6	5.6	.0	3.1	.1	.0		.3	68.3
NE	27.5	3.2	5.0	.0	.0	.0	.0	35.8	3.7	.0	2.7	.0	.0		.1	57.7
E	38.1	3.4	5.5	.0	.0	.0	.0	47.0	4.7	.0	7.0	.3	.0		.0	41.0
SE	29.4	2.3	5.9	.0	.0	.0	.0	37.7	2.3	.0	7.1	.1	.0		.0	52.8
S	17.0	2.0	4.5	.0	.2	.0	.1	23.7	2.7	.0	10.0	.1	.0		.0	63.4
SW	8.5	3.3	2.3	.0	.2	.0	.2	14.5	5.1	.0	4.4	.3	*		.1	75.5
W	3.9	6.1	1.9	.0	.8	*	.6	13.1	8.3	.0	2.3	.2	.1		.2	75.9
NW	4.0	8.3	1.5	.0	.8	*	.7	15.1	7.7	.0	2.0	.3	.0		*	74.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	4.8	.0	3.2	.0	.0	.0	.0	8.1	1.6	.0	8.1	.0	.0		.0	82.3
TOT PCT	12.5	5.0	3.1	.0	.4	*	.3	21.3	5.7	.0	4.4	.2	*		.1	68.3
TOT OBS:	9573															

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 SNOW	NO SIG WEA
00&03	13.3	4.6	4.2	.0	.4	.0	.3	22.8	5.7	.0	4.3	.2	.0		.1	67.0
06&09	13.6	5.0	3.4	.0	.3	.1	.1	22.1	6.2	.0	4.6	.1	.0		.3	66.7
12&15	11.6	5.3	2.1	.0	.7	.0	.4	19.8	5.8	.0	4.5	.3	.0		.1	69.6
18&21	11.6	5.3	2.7	.0	.4	.0	.5	20.5	4.9	.0	4.1	.1	.1		.0	70.2
TOT PCT	12.5	5.0	3.1	.0	.4	*	.3	21.3	5.7	.0	4.4	.2	*		.1	68.4
TOT OBS:	9575															

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	2.1	4.8	3.1	.8	*		11.0	18.8	9.4	10.2	11.2	11.2	12.4	12.2	10.9	10.4
NE	.2	1.2	2.5	1.6	.5	.1		6.1	18.7	6.6	5.4	5.1	5.8	7.0	5.6	5.7	7.5
E	.1	1.3	1.8	1.6	.5	*		5.3	19.1	6.0	6.1	5.8	5.9	4.0	4.4	4.6	5.5
SE	.2	1.5	3.4	2.3	.6	*		8.0	18.4	9.1	8.0	7.6	7.3	7.8	8.7	7.9	7.9
S	.2	2.4	7.1	3.5	.3	*		13.5	17.3	12.9	13.7	13.9	14.3	13.7	13.1	13.3	13.2
SW	.2	3.2	6.1	3.3	.5	.2		13.5	17.5	13.0	15.1	13.3	13.1	13.4	14.1	13.7	12.8
W	.3	3.2	8.5	6.0	1.1	.2		19.3	19.3	19.0	17.5	19.6	18.0	19.8	20.0	20.2	20.2
NW	.2	3.0	8.6	8.2	2.0	.2		22.2	21.2	23.0	22.7	22.0	23.1	21.2	20.6	22.8	22.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1							1.1	.0	1.0	1.3	1.3	1.4	.9	1.4	1.0	.6
TOT OBS	148	1005	2405	1670	353	37	5618		18.8	705	707	705	699	694	700	703	705
TOT PCT	2.6	17.9	42.8	29.7	6.3	.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	.9	4.2	3.8	1.9	.1		11.0	18.8	9.8	11.2	12.3	10.6
NE	.7	2.1	1.9	1.1	.1		6.1	18.7	6.0	5.4	6.3	6.6
E	.7	1.7	1.6	1.1	.2		5.3	19.1	6.0	5.8	4.2	5.1
SE	.8	3.0	2.9	1.3	.1		8.0	18.4	8.6	7.4	8.2	7.9
S	1.0	5.4	5.6	1.5	*		13.5	17.3	13.3	14.1	13.4	13.3
SW	1.3	5.7	4.8	1.5	.2		13.5	17.5	14.0	13.3	13.7	13.1
W	1.3	6.5	8.2	2.8	.5		19.3	19.3	18.3	18.8	19.9	20.2
NW	1.0	6.7	9.0	5.0	.5		22.2	21.2	22.9	22.6	20.9	22.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.1						1.1	.0	1.1	1.4	1.1	.8
TOT OBS	503	1985	2121	910	99	5618		18.8	1412	1404	1394	1408
TOT PCT	9.0	35.3	37.8	16.2	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	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.1	1.7	19.1	41.1	30.0	6.6	.5	18.6	100.0	1412
06&09	1.4	1.3	17.9	44.4	29.0	5.1	.9	18.6	100.0	1404
12&15	1.1	1.7	17.1	43.0	29.8	6.3	.9	19.0	100.0	1394
18&21	.8	1.4	17.4	42.8	30.1	7.1	.4	19.2	100.0	1408
TOT	62	86	1005	2405	1670	393	37	18.8		5618
PCT	1.1	1.5	17.9	42.8	29.7	6.3	.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	.6	.7	3.8	5.9		6.8
NE	.1	.1	1.3	4.5		7.4
E	.1	.1	.7	4.4		7.6
SE	.2	.2	1.6	6.0		7.4
S	.9	.4	3.0	9.2		7.0
SW	2.1	1.1	4.1	6.3		6.1
W	2.3	2.0	8.1	6.8		6.0
NW	1.7	2.0	9.8	8.7		6.3
VAR	.0	.0	.0	.0		.0
CALM	.2	*	.4	.5		6.1
TOT OBS	453	370	1837	2955	5615	6.6
TOT PCT	8.1	6.6	32.7	52.6	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	.1	.0	.1	.9	4.3	7.6	.2	.1	.1	*	2.5	
NE	.1	.0	.4	.8	2.6	.9	.1	*	.0	*	1.1	
E	.3	.0	.4	.7	1.8	1.1	.1	*	.0	.1	.7	
SE	.6	*	.4	.9	2.3	1.4	.2	.1	.1	.1	1.9	
S	1.3	.1	.6	.9	2.8	2.6	.3	.2	.4	.8	3.7	
SW	.4	.0	.2	.7	3.2	2.2	.1	.2	.2	.6	5.8	
W	.2	*	.2	.8	5.1	5.4	.6	.1	.1	.2	6.7	
NW	.2	*	.2	.9	7.7	6.6	.5	*	*	.1	5.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	*	.3	.2	*	*	*	*	.4	
TOT OBS	185	6	141	376	1693	1298	117	35	52	113	1599	5615
TOT PCT	3.3	.1	2.5	6.7	30.2	23.1	2.1	.6	.9	2.0	28.5	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	1.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9
* OR >5000	2.2	3.5	3.5	3.6	3.6	3.6	3.6	3.6
* OR >3500	3.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
* OR >2000	16.0	28.5	28.7	28.7	28.7	28.7	28.7	28.7
* OR >1000	28.1	56.8	58.6	58.8	58.9	58.9	58.9	58.9
* OR >600	28.8	60.8	64.5	65.2	65.6	65.6	65.6	65.6
* OR >300	28.8	61.9	66.4	67.4	68.0	68.1	68.1	68.1
* OR >150	28.9	61.9	66.5	67.4	68.1	68.2	68.2	68.2
* OR > 0	28.9	61.9	66.6	67.7	69.0	70.1	71.4	71.5
TOTAL	1621	3475	3737	3798	3874	3933	4007	4015

TOTAL NUMBER OF OBS: 5614 PCT FREQ NH <5/8: 28.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.5	4.2	8.8	6.7	4.3	7.7	14.5	10.4	35.6	3.3	5620

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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	*	.1	.1	.2	.2	.1	*	.0	.0	.0	.7	
<1/2	NO PCP	.1	*	.2	.3	.8	.9	.1	.1	.0	.1	2.0	
	TOT %	.1	.1	.3	.5	1.0	.4	.2	.1	.0	.1	2.7	
	PCP	*	.1	*	.2	.2	*	*	*	.0	.0	.6	
1/2<1	NO PCP	.1	*	.1	.1	.3	.1	.1	.1	.0	.0	.8	
	TOT %	.1	.1	.1	.3	.4	.1	.2	.1	.0	.0	1.4	
	PCP	.1	.1	.2	.2	.2	*	*	*	.0	.0	.8	
1<2	NO PCP	.1	*	*	.1	.1	*	*	*	.0	.0	.4	
	TOT %	.2	.1	.2	.3	.3	.1	.1	*	.0	.0	1.2	
	PCP	.4	.5	.6	.8	.6	.2	.3	.4	.0	.0	3.7	
2<5	NO PCP	.1	.1	.1	.1	.2	.2	.2	.2	.0	*	1.2	
	TOT %	.5	.6	.7	.9	.8	.3	.4	.6	.0	*	4.9	
	PCP	1.6	1.3	1.4	1.4	1.7	1.3	1.6	2.3	.0	*	12.7	
5<10	NO PCP	3.2	1.7	1.3	1.6	3.4	4.0	5.5	6.6	.0	.3	27.6	
	TOT %	4.8	3.0	2.6	3.1	5.2	5.3	7.1	8.9	.0	.3	40.2	
	PCP	.4	.2	.2	.2	.3	.3	.3	.7	.0	.1	2.8	
10+	NO PCP	4.9	2.1	1.2	2.8	5.6	7.0	10.8	11.7	.0	.7	46.7	
	TOT %	5.3	2.2	1.4	3.0	5.9	7.2	11.3	12.4	.0	.7	49.6	
	TOT OBS												5578
	TOT PCT	11.0	6.1	5.3	8.0	13.6	13.4	19.3	22.2	.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
	0-3	*	*	*	*	.0	*	*	*	.0	.1	.2	
<1/2	4-10	.1	*	.1	.2	.3	.1	.1	.1	.0		1.0	
	11-21	.0	*	.1	.2	.5	.2	*	*	.0		1.1	
	22+	.0	*	.1	.1	.2	*	.0	*	.0		.4	
	TOT %	.1	.1	.3	.5	1.0	.4	.2	.1	.0	.1	2.7	
	0-3	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	4-10	*	*	*	*	*	*	*	*	.0		.3	
	11-21	*	*	*	.1	.2	.1	.1	*	.0		.6	
	22+	*	*	.1	.2	.2	.0	*	*	.0		.6	
	TOT %	.1	.1	.1	.3	.4	.1	.2	.1	.0	.0	1.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	*	.0	*	*	*	*	*	*	.0		.1	
	11-21	.1	*	*	.1	.2	.1	.1	*	.0		.5	
	22+	.1	*	.1	.2	.1	*	.0	.0	.0		.5	
	TOT %	.2	.1	.2	.3	.3	.1	.1	*	.0	.0	1.2	
	0-3	*	.0	.0	*	*	*	*	*	.0	*	.1	
2<5	4-10	.1	*	*	*	.1	*	.1	.1	.0		.4	
	11-21	.1	.2	.1	.3	.4	.1	.1	.2	.0		1.5	
	22+	.3	.4	.5	.5	.3	.2	.2	.4	.0		2.8	
	TOT %	.5	.6	.7	.9	.8	.3	.4	.6	.0	*	4.9	
	0-3	*	.1	*	*	*	*	*	*	.0	.3	.7	
5<10	4-10	.7	.4	.4	.4	.6	1.1	.9	.9	.0		5.5	
	11-21	2.0	1.1	1.0	1.3	2.7	2.1	2.8	2.8	.0		15.7	
	22+	2.0	1.3	1.1	1.3	1.8	2.1	3.4	5.1	.0		18.2	
	TOT %	4.8	3.0	2.6	3.0	5.2	5.3	7.1	8.9	.0	.3	40.1	
	0-3	.1	.1	.1	.1	.1	.1	.2	.1	.0	.7	1.7	
10+	4-10	1.1	.7	.7	.9	1.4	1.9	2.0	1.8	.0		10.5	
	11-21	2.6	1.1	.5	1.5	3.2	3.5	5.4	5.6	.0		23.4	
	22+	1.5	.3	.2	.6	1.2	1.7	3.7	4.9	.0		14.2	
	TOT %	5.3	2.3	1.4	3.1	5.9	7.3	11.3	12.5	.0	.7	49.7	
	TOT OBS												5614
	TOT PCT	11.0	6.1	5.3	8.0	13.5	13.5	19.3	22.2	.0	1.1	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	3.3	.2	1.8	6.0	28.4	21.5	2.0	.4	1.2	2.5	67.3	32.7	1411
06&09	3.4	.0	2.4	6.5	30.9	24.0	2.2	.2	.8	2.1	72.5	27.5	1404
12&15	2.7	.1	3.7	6.9	30.7	24.4	1.7	1.0	.8	1.8	73.8	26.2	1396
18&21	3.8	.1	2.1	7.5	30.7	22.5	2.4	.9	.9	1.7	72.5	27.5	1407
TOT	185	6	141	376	1695	1298	117	35	52	113	4018	1600	5618
PCT	3.3	.1	2.5	6.7	30.2	23.1	2.1	.6	.9	2.0	71.5	28.5	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	3.0	1.1	.6	5.4	41.0	48.8	1410
06&09	3.0	1.0	.6	5.3	42.7	47.3	1404
12&15	1.6	1.9	1.9	4.6	38.6	51.4	1396
18&21	3.0	1.7	1.6	4.1	38.1	51.5	1407
TOT	150	80	67	273	2253	2794	5617
PCT	2.7	1.4	1.2	4.9	40.1	49.7	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	3.3	6.0	13.9	54.0	32.1	1409
06&09	3.4	6.4	15.3	57.5	27.2	1403
12&15	2.7	7.1	16.0	58.3	25.6	1396
18&21	3.8	6.6	15.8	57.3	27.0	1406
TOT	186	366	857	3187	1570	5614
PCT	3.3	6.5	15.3	56.8	28.0	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
55/59	.0	.0	.0	.0	.0	*	*	.0	3	.1
50/54	.0	.0	.0	*	.1	.7	3.9	3.1	445	7.9
45/49	.0	.0	.0	.4	3.3	12.9	18.9	21.8	3220	57.4
40/44	.0	.0	*	.9	6.1	12.4	7.7	4.7	1785	31.8
35/39	.0	.0	.0	.2	.5	.8	.9	.5	158	2.8
TOTAL	0	0	2	89	360	1509	1762	1689	5611	100.0
PCT	.0	.0	*	1.6	10.0	26.9	31.4	30.1		

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	.0	.0
.3	.5	1.0	1.3	2.1	1.7	.6	.2	.0	.1
5.2	3.7	3.3	5.7	9.9	8.9	9.9	10.1	.0	.7
5.1	1.8	.9	.9	1.4	2.7	7.9	10.7	.0	.2
.4	.1	.1	.1	.1	.2	.8	1.1	.0	.0
11.0	6.1	5.3	8.0	13.5	13.5	19.3	22.2	.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	53	51	50	45	40	38	36	45.2	1412
06&09	53	51	50	45	40	38	36	45.1	1405
12&15	57	52	50	46	40	38	35	45.7	1396
18&21	56	52	50	46	41	38	35	45.8	1408
TOT	57	52	50	46	40	38	35	45.4	5621

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	1.4	9.3	25.4	31.5	32.3	83	1411
06&09	.0	1.4	8.8	27.9	29.5	32.5	83	1402
12&15	.0	2.0	11.1	27.0	30.5	29.4	82	1394
18&21	.0	1.7	10.7	27.3	34.0	26.2	82	1407
TOT	0	91	360	1310	1763	1690	83	5614

PERIOD: (PRIMARY) 1953-1972
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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	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	W FOG	WO FOG
7/8	.0	.0	.0	*	*	*	*	4	.0	.1
6	.0	.0	*	.1	*	*	.0	6	.0	.1
5	.0	.0	.1	.2	.3	.1	.0	36	.1	.6
4	.0	.0	.3	.2	.8	.1	.0	77	.1	1.3
3	.0	.0	.2	.7	1.8	.1	.0	153	.2	2.6
2	.0	.0	.4	2.1	2.9	.1	.0	300	.4	5.0
1	.0	*	.5	5.6	3.6	*	.0	545	.7	9.1
0	.0	*	1.0	10.8	2.3	.0	.0	781	1.0	13.1
-1	.0	.0	2.2	10.8	1.3	*	.0	796	.6	13.7
-2	.0	.1	3.7	8.5	.8	.0	.0	729	.3	12.8
-3	.0	.4	6.1	6.7	.5	.0	.0	797	.2	13.4
-4	.0	.3	6.3	2.8	.0	.0	.0	524	.3	9.1
-5	.0	1.2	4.9	1.1	.0	.0	.0	398	.3	6.9
-6	.1	1.3	2.0	.8	.0	.0	.0	234	.2	4.[illegible]
-7/-8	*	1.5	1.0	.2	.0	.0	.0	149	.1	2.5
-9/-10	.1	.3	.4	.0	.0	.0	.0	44	.0	.8
-11/-13	*	.3	.3	.0	.0	.0	.0	31	.0	.6
-14/-16	.0	.1	.0	.0	.0	.0	.0	4	.0	.1
TOTAL	9	299	1627	2815	796	23	1	5568	243	5325
PCT	.2	5.4	29.2	50.6	14.3	.4	*	100.0	4.4	95.6

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	.2	.5	.0	.0	.0	.0	.6
1-2	*	.6	.6	.0	.0	.0	1.2
3-4	.0	.5	1.3	.2	.0	.0	2.0
5-6	.0	.1	1.1	.3	.0	.0	1.5
7	.0	.1	.8	.5	.0	.0	1.4
8-9	.0	.1	.5	.6	.0	.0	1.2
10-11	.0	.0	.4	.6	.2	.0	1.2
12	.0	.0	.1	.3	.1	.0	.6
13-16	.0	.0	*	.6	.1	.0	.8
17-19	.0	.0	.0	.2	.1	.0	.3
20-22	.0	.0	.0	.1	.2	.0	.3
23-25	.0	.0	.0	*	*	.0	.1
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	1.9	4.9	3.5	.8	.0	11.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4
1-2	*	.2	.2	.0	.0	.0	.4
3-4	*	.2	.7	*	.0	.0	1.0
5-6	.0	*	.4	*	.0	.0	.4
7	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.1	.3	.0	.0	.4
10-11	.0	*	.1	.2	.1	.0	.4
12	.0	.0	*	.2	.0	.0	.3
13-16	.0	.0	.1	.6	.1	.0	.8
17-19	.0	.0	*	.2	.1	.0	.3
20-22	.0	.0	.0	.1	*	.0	.1
23-25	.0	.0	.0	*	*	.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	.3	.7	1.7	1.9	.4	.0	4.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.4	.0	.0	.0	.0	.5
1-2	.0	.2	.1	.0	.0	.0	.3
3-4	.0	.2	.5	*	.0	.0	.6
5-6	.0	.1	.2	.2	.0	.0	.4
7	.0	*	.1	.2	.0	.0	.3
8-9	.0	.0	.1	.2	*	.0	.4
10-11	.0	.0	*	.3	.0	.0	.4
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	*	.7	.1	.0	.9
17-19	.0	.0	.0	*	.2	.0	.2
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	*	.9	1.0	1.7	.3	.0	4.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4
1-2	.0	.5	.2	.0	.0	.0	.7
3-4	.0	.2	1.2	.1	.0	.0	1.5
5-6	*	*	1.2	.1	.0	.0	1.4
7	.0	.1	1.0	.6	*	.0	1.7
8-9	.0	*	.4	.4	.0	.0	.8
10-11	.0	.0	*	.5	.0	*	.5
12	.0	.0	.0	.1	.1	.0	.2
13-16	*	.0	*	.2	.3	.0	.6
17-19	.0	.0	.0	*	.1	.0	.1
20-22	.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	.2	1.0	4.1	2.0	.7	*	8.0

PERIOD: (OVER-ALL) 1963-1972

SEPTEMBER

TABLE 18 (CONT)

AREA 0002 OSV BRAVO 96.5N 51.1W

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	*	.0	.0	.0	.7
1-2	.0	.9	.5	.0	.0	.0	1.4
3-4	.0	.8	2.2	.2	.0	.0	3.2
5-6	.0	.2	2.5	.3	.0	.0	3.0
7	*	.2	1.4	1.0	.0	.0	2.6
8-9	.0	.1	.7	.6	.0	.0	1.4
10-11	.0	*	.2	.9	.1	.0	1.2
12	.0	.0	*	.4	*	.0	.5
13-16	.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	.2	2.6	7.6	3.5	.3	.0	14.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.8	.0	.0	.0	.0	.8
1-2	*	.8	.4	.0	.0	.0	1.3
3-4	.1	1.1	2.1	*	.0	.0	3.3
5-6	*	.4	1.6	.3	.0	.0	2.4
7	*	.3	1.4	.7	.0	.0	2.3
8-9	.0	*	.6	.7	*	.0	1.4
10-11	.0	.1	.3	.3	*	.0	.7
12	.0	*	*	.3	.1	.0	.5
13-16	.0	.0	.0	.8	.1	.0	.9
17-19	.0	.0	*	.3	.2	.0	.5
20-22	.0	.0	.0	.0	.1	.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	.2	3.4	6.5	3.4	.5	.0	14.1

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.0	.0	.0	.0	.7
1-2	.0	.8	.3	.0	.0	.0	1.1
3-4	.0	.7	2.0	.1	.0	.0	2.9
5-6	.0	.3	2.3	.3	.0	.0	2.9
7	.0	.4	2.1	.7	.0	.0	3.2
8-9	.0	.1	1.0	1.2	.1	.0	2.4
10-11	.0	.1	.6	1.2	*	.0	1.9
12	.0	*	.3	.9	.1	.0	1.3
13-16	.0	.0	.3	.9	.1	.0	1.3
17-19	.0	.0	.0	.6	.2	*	.9
20-22	.0	.0	.0	.3	.1	*	.4
23-25	.0	.0	.0	.1	.1	.1	.3
26-32	.0	.0	.0	.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	.3	2.8	8.9	6.2	.7	.2	19.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.3	.0	.0	.0	.0	.4	
1-2	*	.7	.5	.0	.0	.0	1.2	
3-4	.0	1.4	1.3	.2	.0	.0	2.9	
5-6	.0	.2	2.3	.2	.0	.0	2.8	
7	.0	.2	2.7	.9	.0	.0	3.8	
8-9	.0	.1	1.2	1.5	*	.0	2.9	
10-11	.0	.1	.8	1.8	*	.0	2.7	
12	.0	*	.6	1.6	.1	.0	2.3	
13-16	.0	.0	.3	1.9	.4	.0	2.6	
17-19	.0	.0	.1	.6	.4	.0	1.1	
20-22	.0	.0	.0	.2	.1	*	.3	
23-25	.0	.0	.0	*	.1	.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	.1	3.0	9.7	9.1	1.2	*	23.1	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	2.1	3.4	*	.0	.0	.0	5.5	
1-2	.1	4.7	2.7	.0	.0	.0	7.5	
3-4	.2	5.2	11.2	.8	.0	.0	17.4	
5-6	.1	1.2	11.8	1.8	.0	.0	14.8	
7	.1	1.2	9.5	4.9	*	.0	15.6	
8-9	.0	.4	4.7	5.5	.2	.0	10.8	
10-11	.0	.3	2.4	5.8	.5	*	9.0	
12	.0	.1	1.2	4.0	.5	.0	5.8	
13-16	*	.0	.7	5.7	1.4	.0	7.9	
17-19	.0	.0	.2	1.9	1.3	*	3.5	
20-22	.0	.0	.0	.7	.5	*	1.3	
23-25	.0	.0	.0	.2	.3	.1	.6	
26-32	.0	.0	.0	.0	.1	.1	.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	2.7	16.4	44.4	31.2	5.0	.3	100.0	2322

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	1.7	7.1	4.3	3.4	1.0	.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1038	5
6-7	.0	.3	3.6	7.0	10.6	6.0	3.9	2.0	1.6	.3	.1	.0	*	.0	.0	.0	.0	.0	.0	1963	7
8-9	.0	*	.3	1.4	5.2	4.5	5.6	4.1	5.6	2.5	1.0	.4	.2	.0	.0	.0	.0	.0	.0	1706	11
10-11	.0	.0	*	.1	.8	1.1	.9	1.5	2.1	1.4	.9	.3	.3	.0	.0	.0	.0	.0	.0	520	14
12-13	.0	.0	*	.0	.0	.0	.1	*	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	39	17
>13	.0	.0	.0	.0	*	*	.0	.0	.1	*	*	.0	.1	.0	.0	.0	.0	.0	.0	12	18
INDET	.5	.8	1.1	.8	.8	.3	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	269	5
TOTAL	35	156	672	763	1150	717	642	437	535	242	118	45	35	0	0	0	0	0	0	5547	9
PCT	.6	2.8	12.1	13.8	20.7	12.9	11.6	7.9	9.6	4.4	2.1	.8	.6	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1945-1972

AREA 0002 OSV BRAVO
56.5N 51.0W

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 W0 PCPN	FOG W0 PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	17.3	4.9	1.8	.0	5.0	.2	1.0	29.1	8.8	.0	.9	.2	.0	.2		60.9
NE	26.5	2.8	4.7	.0	5.1	.6	.0	38.4	3.6	.3	3.6	.1	.0	.0		54.0
E	37.7	3.8	6.8	.3	3.5	.3	.0	50.8	5.8	.0	4.5	.2	.0	.0		38.7
SE	36.5	3.1	7.4	.0	1.4	.2	.0	48.4	4.1	.0	7.6	.0	.1	.0		39.8
S	18.6	3.1	4.6	.0	2.3	.0	.0	28.0	5.6	.0	4.4	.3	.3	.0		61.4
SW	10.8	4.6	.9	.0	3.6	.0	.7	19.8	5.9	.0	1.7	.0	.1	.0		72.5
W	5.9	4.8	.6	.0	10.6	.3	1.9	23.8	9.7	.0	.3	.1	*	.3		65.8
NW	5.7	6.0	.9	.0	10.7	.1	1.7	24.3	10.5	.0	.3	.0	.1	.1		64.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	10.0	.0	4.0	.0	.0	.0	.0	14.0	4.0	.0	4.0	.0	.0	.0		78.0
TOT PCT	14.3	4.5	2.4	*	6.7	.2	1.0	28.5	7.8	*	2.0	.1	.1	.1		61.4
TOT OBS:	5980															

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 W0 PCPN	FOG W0 PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	14.9	4.9	3.1	.0	6.7	.1	1.1	29.9	6.4	.0	1.5	.1	.0	.2		61.8
06E09	15.7	4.6	2.4	.0	5.8	.1	.9	28.8	8.0	.1	1.1	.0	.0	.1		62.0
12E15	13.6	3.6	2.1	.0	7.4	.4	1.3	27.9	8.7	.0	2.5	.1	.2	.1		60.6
18E21	13.1	5.2	1.9	.1	7.0	.1	.7	27.6	8.2	.0	2.8	.1	.1	.1		61.1
TOT PCT	14.3	4.6	2.4	*	6.7	.2	1.0	28.5	7.8	*	2.0	.1	.1	.1		61.4
TOT OBS:	5981															

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	1.4	4.4	3.4	1.6	.2		11.2	22.4	11.0	10.1	11.3	11.3	11.2	11.4	11.2	11.7
NE	.1	1.0	2.5	1.6	.4	*		5.8	18.9	4.7	6.0	6.2	6.2	6.4	5.9	5.6	5.4
E	.1	1.0	1.9	1.6	.7	.1		5.4	20.6	5.1	5.6	5.5	5.0	5.3	5.6	5.1	6.2
SE	.1	1.1	2.4	2.4	1.0	.1		7.2	21.7	8.2	7.8	6.4	7.7	7.3	7.6	6.6	6.1
S	.2	1.8	4.9	3.8	.7	*		11.3	19.3	10.2	10.4	10.5	10.5	12.3	12.2	12.6	11.5
SW	.2	2.1	5.5	3.7	.9	.1		12.4	19.3	11.4	12.3	13.0	14.0	12.5	12.6	11.9	11.5
W	.2	2.4	7.9	8.2	2.8	.2		21.2	22.6	22.5	21.3	22.3	19.7	18.3	20.5	22.7	21.8
NW	.1	2.2	7.7	10.2	4.2	.4		24.8	24.2	25.5	26.1	23.8	25.0	25.6	23.5	23.5	25.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0	1.5	.5	.9	.7	1.1	.7	.7	.7
TOT OBS	120	787	2207	2109	742	70	6035		21.6	756	754	755	750	750	753	758	759
TOT PCT	2.0	13.0	36.6	34.9	12.3	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	.6	3.2	4.3	2.3	.8		11.2	22.4	10.5	11.3	11.3	11.5
NE	.7	1.8	2.3	.8	.2		5.8	18.9	5.3	6.2	6.2	5.5
E	.5	1.6	1.9	1.2	.2		5.4	20.6	5.3	5.2	5.5	5.6
SE	.5	1.9	2.8	1.6	.4		7.2	21.7	8.0	7.0	7.4	6.3
S	.8	3.8	4.8	1.8	.1		11.3	19.3	10.3	10.5	12.2	12.0
SW	.8	4.4	4.8	2.2	.2		12.4	19.3	11.8	13.5	12.5	11.7
W	1.1	4.8	9.0	5.4	.9		21.2	22.6	21.9	21.0	19.4	22.2
NW	.7	5.1	9.9	7.7	1.3		24.8	24.2	25.8	24.4	24.6	24.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.8						.8	.0	1.0	.8	.9	.7
TOT OBS	388	1605	2394	1397	251	6035		21.6	1510	1505	1503	1517
TOT PCT	6.4	26.6	39.7	23.1	4.2		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	1.0	1.0	14.0	36.0	34.0	12.7	1.3	21.7	100.0	1510
06&09	.8	1.4	13.4	36.1	35.1	12.2	.9	21.4	100.0	1509
12&15	.9	1.5	12.3	36.7	35.3	12.0	1.0	21.6	100.0	1503
18&21	.7	.7	12.5	37.4	35.1	12.2	1.5	21.8	100.0	1517
TOT	50	70	787	2207	2109	742	70	21.6		6039
PCT	.8	1.2	13.0	36.6	34.9	12.3	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	.4	.6	3.4	6.7		7.0
NE	.1	.3	1.3	4.0		7.2
E	.1	.2	.7	4.4		7.5
SE	.1	.1	1.1	5.8		7.5
S	.6	.5	2.8	7.5		7.0
SW	1.3	.8	3.4	6.9		6.5
W	1.6	1.9	8.4	9.3		6.4
NW	1.4	2.5	10.5	10.4		6.4
VAR	.0	.0	.0	.0		.0
CALM	.1	.1	.3	.4		6.2
TOT OBS	340	416	1933	3339	6028	6.7
TOT PCT	5.6	6.9	32.1	55.4	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	.3	1.2	4.5	2.8	.1	*	*	*	1.9	
NE	.2	*	.2	.8	2.3	1.1	.1	*	*	.1	.9	
E	.1	.1	.3	.8	2.2	.8	.1	.1	*	.1	.8	
SE	.5	.1	.4	1.2	2.5	.9	.1	.1	.1	.2	1.2	
S	.5	*	.4	1.0	3.0	2.8	.2	.1	.2	.4	2.6	
SW	.1	*	.1	.6	3.4	3.6	.4	.2	.1	.3	3.7	
W	.1	.0	*	.7	7.7	6.8	.4	.1	*	.2	5.2	
NW	.1	*	.1	1.0	9.5	8.1	.4	*	.1	.1	5.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	*	*	.1	.2	*	.0	.0	*	.4	
TOT OBS	100	19	119	442	2125	1630	110	34	38	89	1326	6028
TOT PCT	1.7	.2	2.0	7.3	35.3	27.0	1.8	.6	.6	1.5	22.0	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	1.3	2.0	2.1	2.1	2.1	2.1	2.1	2.1
* OR >5000	1.5	2.5	2.6	2.7	2.7	2.7	2.7	2.7
* OR >3500	2.7	4.3	4.4	4.5	4.5	4.5	4.5	4.5
* OR >2000	15.2	30.7	31.2	31.4	31.5	31.5	31.5	31.5
* OR >1000	25.3	62.4	66.0	66.4	66.7	66.7	66.8	66.8
* OR >600	25.8	66.6	72.6	73.6	73.9	74.8	74.1	74.1
* OR >300	25.8	67.5	74.1	75.3	75.8	76.8	76.0	76.0
* OR >150	25.9	67.5	74.2	75.5	76.0	76.2	76.3	76.3
* OR > 0	25.9	67.6	74.4	75.9	76.7	77.3	77.9	77.9
TOTAL	1561	4075	4486	4577	4627	4660	4698	4701

TOTAL NUMBER OF OBS: 6031

PCT FREQ NH <5/8: 22.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.2	2.2	7.5	6.2	3.9	8.2	16.6	12.0	39.6	1.6	6033

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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	.1	*	.1	.2	.2	*	.1	.1	.0	.0	.7	
<1/2	NO PCP	*	.1	*	.2	.2	.1	*	.0	.0	*	.6	
	TOT %	.1	.1	.1	.4	.3	.1	.1	.1	.0	*	1.2	
	PCP	.1	.1	.1	.1	.1	*	.1	.1	.0	*	.6	
1/2<1	NO PCP	*	*	*	.1	.1	*	.0	*	.0	.0	.3	
	TOT %	.1	.1	.1	.2	.2	*	.1	.1	.0	*	.9	
	PCP	.2	.1	.1	.3	.3	.1	.1	.2	.0	*	1.4	
1<2	NO PCP	.0	*	.1	.1	*	.0	*	*	.0	.0	.3	
	TOT %	.2	.1	.2	.4	.3	.1	.1	.2	.0	*	1.6	
	PCP	.6	.6	.8	1.0	.8	.9	.7	1.0	.0	.0	5.8	
2<5	NO PCP	.2	.1	.2	.2	.2	.1	.2	.2	.0	.0	1.3	
	TOT %	.8	.7	.9	1.1	1.0	.6	.9	1.2	.0	.0	7.1	
	PCP	2.0	1.4	1.7	1.8	1.7	1.7	3.6	4.0	.0	.1	18.1	
5<10	NO PCP	3.7	1.9	1.1	1.4	3.6	4.8	7.3	8.7	.0	.2	32.3	
	TOT %	5.7	3.3	2.8	3.2	5.3	6.7	10.9	12.8	.0	.2	50.4	
	PCP	.2	*	.1	.1	.1	.2	.5	.8	.0	*	2.1	
10+	NO PCP	4.0	1.5	1.2	1.7	4.1	5.2	8.6	9.7	.0	.5	36.6	
	TOT %	4.2	1.5	1.3	1.8	4.2	5.4	9.1	10.5	.0	.6	38.7	
	TOT OBS												5986
	TOT PCT	11.1	5.7	5.5	7.2	11.3	12.4	21.2	24.8	.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
	0-3	.0	.0	.0	*	*	*	.0	.0	.0	*	.1	
<1/2	4-10	*	*	.1	*	.1	*	*	*	.0		.3	
	11-21	*	*	*	.1	.1	*	*	*	.0		.4	
	22+	.1	*	.0	.1	.1	*	*	*	.0		.5	
	TOT %	.1	.1	.1	.4	.3	.1	.1	.1	.0	*	1.2	
	0-3	.0	*	*	.0	.0	.0	.0	.0	.0	*	*	
1/2<1	4-10	.0	.0	.0	*	*	*	.0	.0	.0		.1	
	11-21	*	*	*	.1	.1	*	.0	*	.0		.2	
	22+	.1	*	.1	.1	.1	.0	.1	.1	.0		.6	
	TOT %	.1	.1	.1	.2	.2	*	.1	.1	.0	*	.9	
	0-3	*	.0	.0	*	.0	.0	.0	.0	.0	*	*	
1<2	4-10	*	*	*	*	*	*	.0	*	.0		.1	
	11-21	*	.0	*	.1	.1	*	*	.1	.0		.3	
	22+	.2	.1	.2	.3	.1	*	.1	.1	.0		1.1	
	TOT %	.2	.1	.2	.4	.3	.1	.1	.2	.0	*	1.6	
	0-3	.0	.0	.0	.0	*	.0	*	.0	.0	.0	*	
2<5	4-10	.1	.1	*	.1	.1	*	.1	.1	.0		.6	
	11-21	.2	.2	.4	.3	.4	.2	.2	.3	.0		2.1	
	22+	.5	.3	.5	.7	.5	.3	.6	.8	.0		4.3	
	TOT %	.8	.6	.9	1.1	1.0	.6	.9	1.2	.0	.0	7.1	
	0-3	*	*	*	*	.1	.1	.1	*	.0	.2	.6	
5<10	4-10	.7	.6	.5	.5	.6	.9	1.0	.7	.0		5.5	
	11-21	2.2	1.5	.9	.9	2.2	2.5	3.2	3.1	.0		16.6	
	22+	2.8	1.2	1.3	1.8	2.4	2.6	6.6	8.9	.0		27.7	
	TOT %	5.7	3.3	2.8	3.2	5.3	6.2	10.9	12.7	.0	.2	50.3	
	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.5	1.2	
10+	4-10	.6	.4	.5	.5	.9	1.0	1.3	1.4	.0		6.4	
	11-21	2.0	.7	.5	.9	2.1	2.7	3.9	4.2	.0		16.9	
	22+	1.6	.4	.3	.4	1.2	1.6	3.8	4.9	.0		14.3	
	TOT %	4.2	1.6	1.3	1.8	4.2	5.5	9.1	10.5	.0	.5	38.8	
	TOT OBS												6032
	TOT PCT	11.2	5.8	5.4	7.2	11.3	12.4	21.1	24.8	.0	.8	100.0	

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PERIOD: (PRIMARY) 1953-1972
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TABLE 10

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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	1.9	.4	1.7	6.4	34.5	26.3	1.1	1.0	.7	2.0	75.9	24.1	1508
06&09	.9	.2	1.3	6.6	32.7	28.8	1.7	.5	.9	1.5	75.0	25.0	1508
12&15	2.0	.1	2.7	7.6	36.0	26.7	2.5	.5	.6	1.1	79.7	20.3	1500
18&21	1.8	.3	2.2	8.8	37.7	26.3	2.0	.3	.4	1.3	81.1	18.9	1517
TOT	100	15	119	442	2126	1630	110	34	38	89	4703	1330	6033
PCT	1.7	.2	2.0	7.3	35.2	27.0	1.8	.6	.6	1.5	78.0	22.0	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	1.3	.5	1.8	6.5	53.6	36.4	1510
06&09	.5	.5	.9	7.6	53.0	37.5	1506
12&15	1.5	1.7	1.7	6.8	46.6	41.6	1504
18&21	1.6	.9	2.0	7.4	48.1	40.0	1517
TOT	74	56	97	427	3037	2346	6037
PCT	1.2	.9	1.6	7.1	50.3	38.9	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	1.9	4.3	14.9	61.1	24.0	1508
06&09	.9	2.9	13.9	61.4	24.8	1506
12&15	2.0	5.5	16.5	63.8	19.7	1500
18&21	1.8	5.1	18.4	63.3	18.3	1517
TOT	100	268	961	3763	1307	6031
PCT	1.7	4.4	15.9	62.4	21.7	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
50/54	.0	.0	.0	.0	*	.0	.0	.0	2	*
45/49	.0	.0	*	.1	.3	1.9	4.5	6.7	804	13.5
40/44	.0	.0	*	.7	6.7	12.7	15.4	12.4	2846	47.9
35/39	.0	.0	.1	2.4	8.1	11.2	8.1	4.8	2062	34.7
30/34	.0	.0	*	.2	.7	1.0	1.2	.7	230	3.9
25/29	.0	.0	.0	.0	.0	.0	*	.0	2	*
TOTAL	0	0	10	199	939	1590	1739	1469	5946	100.0
PCT	.0	.0	.2	3.3	15.8	26.7	29.2	24.7		

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
.6	.9	1.3	3.4	3.6	2.4	1.0	.4	.0	.1
6.0	3.4	3.3	3.3	5.7	6.2	9.0	10.5	.0	.5
4.3	1.4	.9	.6	1.7	3.5	9.7	12.3	.0	.2
.3	.1	*	*	.2	.4	1.4	1.5	.0	.1
.0	.0	.0	.0	.0	.0	.0	*	.0	.0
11.2	5.8	5.5	7.3	11.3	12.3	21.0	24.8	.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	48	47	46	40	35	33	30	40.4	1510
06&09	49	47	46	40	35	33	30	40.4	1508
12&15	51	48	46	41	35	32	29	40.7	1504
18&21	49	47	46	40	35	32	28	40.6	1518
TOT	51	47	46	40	35	33	28	40.5	6040

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	14.6	25.9	29.2	26.3	81	1484
06&09	.0	3.8	15.8	26.3	29.4	24.7	80	1491
12&15	.0	3.3	16.2	28.0	29.1	23.4	80	1476
18&21	.0	3.1	16.6	26.7	29.3	24.3	80	1500
TOT	0	209	941	1591	1741	1469	80	5951

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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	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	*	*	*	4	*	.1
6	.0	.0	.0	.0	*	.1	*	8	.1	.1
5	.0	.0	.0	.0	*	.3	.0	20	.1	.3
4	.0	.0	.0	*	.3	.9	*	74	.2	1.0
3	.0	.0	.0	*	.4	1.5	.1	121	.3	1.8
2	.0	.0	.0	.1	1.6	2.2	.1	232	.2	3.6
1	.0	.0	*	.2	3.6	2.3	*	365	.2	5.9
0	.0	.0	*	.8	4.1	2.3	.0	429	.3	6.9
-1	.0	.0	.1	1.4	6.0	1.8	.0	550	.2	9.0
-2	.0	.0	*	2.7	5.8	1.3	.0	585	.2	9.6
-3	.0	.0	.1	5.0	6.1	.4	.0	690	.1	11.3
-4	.0	.0	.7	6.9	4.0	.2	.0	676	.1	11.2
-5	.0	.0	1.5	7.4	2.1	.1	.0	665	*	11.1
-6	.0	.0	2.2	6.2	1.0	*	.0	567	.1	9.4
-7/-8	.0	.1	4.5	5.7	.7	.1	.0	658	*	11.0
-9/-10	.0	.4	1.9	1.5	.2	.0	.0	233	.0	3.9
-11/-13	*	.3	.4	.6	.1	.0	.0	90	.0	1.5
-14/-16	.0	*	.1	.1	.0	.0	.0	12	.0	.2
-17/-19	.0	.0	*	.0	.0	.0	.0	1	.0	*
TOTAL	1		692		2153		12		117	5863
		46		2265		811		5980		
PCT	*	.8	11.6	37.9	36.0	13.6	.2	100.0	2.0	98.0

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	.1	.1	.0	.0	.0	.0	.2
1-2	.0	.4	.3	.0	.0	.0	.6
3-4	.0	.5	1.0	.1	.0	.0	1.7
5-6	*	.1	1.3	.2	.0	.0	1.7
7	.0	*	1.0	.7	.0	.0	1.7
8-9	.0	.1	.4	.8	*	.0	1.4
10-11	.0	.1	.3	.7	.0	.0	1.1
12	.0	*	.1	.4	.2	.0	.7
13-16	.0	.0	.1	.2	.2	.0	.5
17-19	.0	.0	.1	.4	.4	.1	.9
20-22	.0	.0	.0	*	.4	.0	.4
23-25	.0	.0	.0	.0	*	.1	.1
26-32	.0	.0	.0	.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	.1	1.5	4.6	3.5	1.3	.2	11.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.3	.0	.0	.0	.0	.4
1-2	*	.2	.3	.0	.0	.0	.6
3-4	.0	.1	.8	.1	.0	.0	1.0
5-6	*	*	.4	.1	.0	.0	.5
7	.0	*	.3	.3	.0	.0	.7
8-9	.0	*	.2	.5	.0	.0	.8
10-11	.0	.0	*	.3	*	.0	.3
12	.0	.0	*	.3	.0	.0	.3
13-16	.0	.0	.1	.3	.3	.0	.6
17-19	.0	.0	*	.1	.1	.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	.1	.7	2.2	1.9	.4	.0	5.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.4	.0	.0	.0	.0	.5
1-2	.0	.5	.2	.0	.0	.0	.7
3-4	.0	.2	.5	.1	.0	.0	.8
5-6	.0	*	.4	.3	.0	.0	.7
7	.0	.0	.3	.4	.0	.0	.9
8-9	.0	.0	.4	.5	.0	.0	.9
10-11	.0	.0	*	.4	*	.0	.5
12	.0	.0	.0	.1	.1	.0	.2
13-16	.0	*	*	.1	.1	.0	.3
17-19	.0	.0	.0	.1	.2	.0	.2
20-22	.0	.0	.0	.1	.1	.1	.3
23-25	.0	.0	.0	*	.1	.0	.1
26-32	.0	.0	.0	*	.1	*	.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	*	1.2	2.1	2.1	.7	.1	6.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.3
1-2	*	.5	.4	.0	.0	.0	.9
3-4	.0	.1	.5	.1	.0	.0	.6
5-6	.0	.1	.4	.3	.0	.0	.8
7	*	.1	.5	.5	.0	.0	1.1
8-9	.0	.0	.4	.5	.0	.0	1.0
10-11	.0	.0	.2	.7	.1	.0	1.1
12	.0	.0	.1	.4	.1	.0	.6
13-16	.0	.0	.1	.3	.2	.0	.6
17-19	.0	.0	.0	.2	.4	.0	.6
20-22	.0	.0	*	.1	.6	.1	.9
23-25	.0	.0	.0	.1	.1	*	.2
26-32	.0	.0	.0	.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	.1	1.0	2.7	3.3	1.5	.1	8.8

PERIOD: (OVER-ALL) 1963-1972

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AREA 0002 OSV BRAVO
56.5N 51.0W

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	.2	*	.0	.0	.0	.5
1-2	.0	.7	.8	.0	.0	.0	1.5
3-4	.0	.4	1.4	.2	.0	.0	2.0
5-6	.0	.2	1.0	.2	.0	.0	1.3
7	.0	.1	.9	.6	*	.0	1.6
8-9	.0	.1	.5	.6	.0	.0	1.2
10-11	.0	.1	.5	.6	.0	.0	1.2
12	.0	*	.4	.7	*	.0	1.2
13-16	.0	.0	.1	1.0	.1	.0	1.2
17-19	.0	.0	.0	.3	*	.0	.4
20-22	.0	.0	.0	.1	.1	.0	.2
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	1.8	5.6	4.3	.4	.0	12.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	*	.0	.0	.0	.3
1-2	.0	.3	.5	.0	.0	.0	.8
3-4	.0	.6	1.0	*	.0	.0	1.6
5-6	*	.2	1.2	.2	.0	.0	1.7
7	.0	.1	.7	.6	.0	.0	1.4
8-9	*	.1	.6	.5	.0	.0	1.3
10-11	.0	*	.8	.9	.1	.0	1.9
12	.0	.0	.3	.7	.1	.0	1.0
13-16	.0	.0	.1	1.0	.4	.0	1.5
17-19	.0	.0	.0	.1	.2	.0	.3
20-22	.0	.0	.0	*	.1	*	.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	1.6	5.2	4.1	.8	*	11.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	*	.0	.0	.0	.9
1-2	.0	.4	.2	.0	.0	.0	.6
3-4	.0	.3	1.4	.0	.0	.0	1.7
5-6	*	.2	1.6	.3	.0	.0	2.2
7	.0	.2	1.5	1.1	*	.0	2.8
8-9	*	.1	.7	1.0	.0	.0	1.8
10-11	.0	.1	1.0	1.8	.1	.0	3.0
12	.0	.0	.3	1.1	.3	.0	1.7
13-16	.0	.0	.5	1.6	.4	.0	2.6
17-19	.0	.0	.0	.7	.3	.0	1.0
20-22	.0	.0	.0	.1	.5	*	.6
23-25	.0	.0	.0	.1	.3	*	.5
26-32	.0	.0	.0	*	.2	*	.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	.2	2.0	7.3	7.9	2.1	.1	19.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.3	.0	.0	.0	.0	.5	
1-2	.0	.7	.5	.0	.0	.0	1.2	
3-4	.0	.6	1.7	.3	.0	.0	2.6	
5-6	*	.3	1.1	.5	.0	.0	1.9	
7	.0	.3	1.7	1.0	*	.0	3.1	
8-9	*	.1	1.1	1.2	*	.0	2.4	
10-11	.0	*	1.1	1.4	*	.0	2.5	
12	.0	*	.2	1.4	.2	.0	1.9	
13-16	.0	.0	.4	2.9	1.1	.0	4.3	
17-19	.0	.0	*	1.1	.8	*	2.0	
20-22	.0	.0	.0	.1	.4	.0	.5	
23-25	.0	.0	.0	*	.1	.1	.3	
26-32	.0	.0	.0	.0	.1	.2	.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	.2	2.4	7.8	10.0	2.7	.3	23.4	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	2.0	2.6	.1	.0	.0	.0	4.7	
1-2	.1	3.8	3.1	.0	.0	.0	7.0	
3-4	.1	2.7	8.3	.9	.0	.0	11.9	
5-6	.1	1.2	7.4	2.1	.0	.0	10.9	
7	.1	.8	7.3	5.2	.1	.0	13.6	
8-9	*	.6	4.4	5.7	.1	.0	10.8	
10-11	.0	.3	3.9	6.9	.5	.0	11.7	
12	.0	.1	1.5	5.1	.9	.0	7.6	
13-16	.0	*	1.4	7.3	2.8	.0	11.5	
17-19	.0	.0	.1	3.0	2.4	.1	5.5	
20-22	.0	.0	*	.5	2.1	.2	2.9	
23-25	.0	.0	.0	.3	.6	.3	1.2	
26-32	.0	.0	.0	.1	.6	.3	1.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	12.1	37.5	37.1	10.1	.9	100.0	2385

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	.0	.4	3.0	3.2	3.3	.9	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	646	5
6-7	.0	.1	2.0	3.6	8.1	7.7	6.9	3.2	2.3	.9	.3	.1	.0	.0	.0	.0	.0	.0	.0	1980	9
8-9	.0	*	.4	.8	3.3	4.3	5.7	5.7	6.6	3.2	1.4	.8	.3	*	.0	.0	.0	.0	.0	1836	12
10-11	.0	*	.1	.2	.7	.8	1.5	1.3	2.7	2.1	1.8	1.0	1.3	.0	.0	.0	.0	.0	.0	761	16
12-13	.0	.0	.0	.0	*	*	.1	.1	.2	.4	.4	.3	.4	.0	.0	.0	.0	.0	.0	107	20
>13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.1	*	.1	.0	.0	.0	.0	.0	.0	33	20
INDET	.3	.2	.9	1.3	.7	.5	.5	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	277	6
TOTAL	17	46	361	515	911	807	852	599	678	384	224	127	118	1	0	0	0	0	0	5640	10
PCT	.3	.8	6.4	9.1	16.2	14.3	15.1	10.6	12.0	6.8	4.0	2.3	2.1	*	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1947-1972

AREA 0002 OSV BRAVO
56.5N 51.0W

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	12.1	3.8	1.3	.0	21.3	.1	.7	97.4	6.2	.0	.8	.0	.0		.0	55.6
NE	25.7	2.5	1.8	.0	11.6	.9	.1	99.3	5.4	.0	3.4	.0	.0		.0	51.9
E	28.0	2.5	3.0	.0	13.9	.1	.4	43.5	5.2	.0	4.4	.0	.0		1.5	45.3
SE	29.9	3.7	3.0	.0	10.3	.0	.0	45.1	4.9	.0	3.3	.2	.3		.0	46.2
S	25.5	1.9	2.3	.0	11.9	.1	.3	41.2	5.6	.0	4.5	.2	.1		.0	48.4
SW	9.5	2.8	1.3	.0	19.4	.1	.6	92.6	6.7	.0	1.4	.1	.0		.6	58.6
W	3.1	2.2	.6	.1	25.9	.3	1.6	93.0	9.8	.0	.4	.0	.0		.4	56.5
NW	4.9	3.2	.4	*	27.4	.0	1.4	95.7	8.9	.0	.3	.0	.1		*	55.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	5.0	2.5	.0	.0	10.0	.0	.0	17.5	5.0	.0	5.0	2.5	.0		.0	70.0
TOT PCT	13.9	2.8	1.4	*	19.7	.2	.8	97.1	7.2	.0	1.9	.1	.1		.3	53.5
TOT OBS:	9639															

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	14.4	2.8	1.5	.0	21.1	.3	.9	99.3	6.6	.0	1.7	.1	.0		.5	51.7
06&09	14.7	2.4	1.2	.0	18.3	.1	.9	95.9	8.1	.0	1.4	.0	.1		.1	54.4
12&15	13.2	2.9	1.2	.1	19.1	.0	.9	95.9	8.0	.0	2.3	.1	.1		.3	53.4
18&21	13.3	3.0	1.7	.0	20.1	.4	.6	97.3	5.9	.0	2.1	.1	.1		.2	54.3
TOT PCT	13.9	2.8	1.4	*	19.7	.2	.8	97.1	7.2	.0	1.9	.1	.1		.3	53.4
TOT OBS:	9643															

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	1.8	4.3	3.0	1.1	.1		10.5	19.9	10.0	10.9	10.0	11.7	11.7	11.0	9.3	9.7
NE	.1	1.4	2.6	2.4	1.1	.1		7.6	21.7	8.1	7.2	8.5	7.4	7.7	6.7	7.2	8.3
E	.2	1.5	2.7	2.1	1.1	.4		8.1	22.3	7.0	8.0	7.5	7.8	8.0	8.4	9.3	8.4
SE	.1	1.3	2.7	2.9	1.2	.1		8.2	21.9	8.3	7.1	8.0	8.3	8.3	9.2	8.0	8.9
S	.1	1.2	4.1	4.2	1.8	.3		11.7	23.3	11.5	12.4	12.3	12.0	11.1	11.0	11.9	11.6
SW	.2	1.7	5.8	4.6	1.5	.3		14.2	21.6	13.9	14.9	13.4	14.6	14.3	14.6	14.3	13.3
W	.1	2.3	7.1	7.6	2.5	.5		20.1	22.8	21.7	19.3	20.6	18.9	19.9	19.8	20.2	20.0
NW	.2	2.4	6.9	6.6	2.5	.2		18.9	22.3	18.8	19.6	19.2	19.0	17.9	18.4	19.1	18.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0	.7	.5	.6	.4	1.0	.8	.7	.8
TOT OBS	110	767	2058	1901	730	108	5674		21.9	706	728	697	700	705	734	698	706
TOT PCT	1.9	13.5	36.3	33.5	12.9	1.9		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	.7	3.7	3.7	2.0	.3		10.5	19.9	10.4	10.8	11.4	9.5
NE	.6	2.2	2.6	1.8	.4		7.6	21.7	7.7	7.9	7.2	7.8
E	.6	2.4	2.4	1.8	.8		8.1	22.3	7.5	7.6	8.2	8.9
SE	.5	2.4	2.6	2.4	.4		8.2	21.9	7.7	8.1	8.8	8.5
S	.4	2.9	4.4	3.3	.7		11.7	23.3	12.0	12.2	11.1	11.7
SW	.7	4.0	5.6	3.2	.5		14.2	21.6	14.4	14.0	14.4	13.8
W	.8	5.1	7.9	5.1	1.1		20.1	22.8	20.5	19.8	19.9	20.1
NW	.9	5.0	7.3	4.6	1.1		18.9	22.3	19.2	19.1	18.2	19.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.7						.7	.0	.6	.5	.9	.8
TOT OBS	343	1578	2074	1377	302	5674		21.9	1434	1397	1439	1404
TOT PCT	6.0	27.8	36.6	24.3	5.3		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1947-1972

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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	.6	1.0	14.7	35.9	32.8	12.2	2.6	22.0	100.0	1434
06&09	.5	1.2	12.8	38.3	33.0	12.5	1.7	21.7	100.0	1397
12&15	.9	1.2	12.8	36.3	34.2	13.3	1.3	22.0	100.0	1439
18&21	.8	1.8	13.7	34.5	34.0	13.5	1.9	22.1	100.0	1404
TOT	40	70	767	2058	1901	730	108	21.9		5674
PCT	.7	1.2	13.5	36.3	33.5	12.9	1.9		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	.5	.5	2.9	6.6		7.0
NE	.3	.2	1.9	5.8		7.3
E	.2	.4	1.3	6.2		7.3
SE	.2	.3	1.0	6.8		7.4
S	.4	.4	1.9	9.0		7.3
SW	.6	.7	4.5	8.4		6.9
W	.8	1.4	8.1	9.7		6.7
NW	1.1	1.5	7.4	8.9		6.5
VAR	.0	.0	.0	.0		.0
CALM	.1	*	.2	.4		6.8
TOT OBS	237	310	1622	3502	5671	7.0
TOT PCT	4.2	5.5	28.6	61.8	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	.1	.7	3.9	3.5	*	*	*	.0	2.1	
NE	.3	.0	.2	.8	3.3	1.8	.1	*	*	*	1.1	
E	.4	.0	.2	1.1	2.7	2.3	.1	.0	*	*	1.2	
SE	.4	.0	.3	1.1	3.1	2.0	.1	*	.1	.1	1.2	
S	.4	.0	.3	1.4	4.6	3.0	.2	.1	.1	*	1.7	
SW	.3	.0	.2	.7	5.6	4.8	.1	*	.1	*	2.4	
W	.1	.0	.1	.4	8.7	6.9	.4	.1	*	*	3.3	
NW	.2	.0	.2	.6	7.8	6.1	.1	*	*	*	3.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	.0	*	.2	.2	.0	*	.0	*	.2	
TOT OBS	126	0	93	393	2259	1732	61	14	19	15	959	5671
TOT PCT	2.2	.0	1.6	6.9	39.8	30.5	1.1	.2	.3	.3	16.9	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	.3	.5	.6	.6	.6	.6	.6	.6
* OR >5000	.4	.8	.8	.8	.8	.8	.8	.8
* OR >3500	1.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9
* OR >2000	15.7	31.2	32.2	32.3	32.5	32.5	32.5	32.5
* OR >1000	25.5	65.8	70.5	71.7	72.1	72.2	72.3	72.3
* OR >600	25.9	69.6	76.2	78.0	78.9	79.1	79.2	79.2
* OR >300	25.9	70.1	77.3	79.3	80.5	80.8	80.8	80.8
* OR >150	25.9	70.1	77.3	79.3	80.5	80.8	80.8	80.8
* OR > 0	25.9	70.1	77.4	79.6	81.4	82.3	83.0	83.1
TOTAL	1470	3974	4393	4518	4616	4668	4709	4712

TOTAL NUMBER OF OBS: 5673 PCT FREQ NH <5/8: 16.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.9	1.2	6.1	5.2	3.5	7.9	15.3	11.0	47.1	2.2	5677

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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	.6	1.0	14.7	35.9	32.8	12.2	2.6	22.0	100.0	1434
06&09	.5	1.2	12.8	38.3	33.0	12.5	1.7	21.7	100.0	1397
12&15	.9	1.2	12.8	36.3	34.2	13.3	1.3	22.0	100.0	1439
18&21	.8	1.5	13.7	34.5	34.0	13.5	1.9	22.1	100.0	1404
TOT	40	70	767	2058	1901	730	108	21.9		5674
PCT	.7	1.2	13.5	36.3	33.5	12.9	1.9		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	.5	.5	2.9	6.6		7.0
NE	.3	.2	1.3	5.8		7.3
E	.2	.4	1.3	6.2		7.3
SE	.2	.3	1.0	6.8		7.4
S	.4	.4	1.9	9.0		7.3
SW	.6	.7	4.3	8.4		6.9
W	.8	1.4	8.1	9.7		6.7
NW	1.1	1.3	7.4	8.9		6.5
VAR	.0	.0	.0	.0		.0
CALM	.1	*	.2	.6		6.8
TOT OBS	237	310	1622	3502	5671	7.0
TOT PCT	4.2	5.5	28.6	61.8	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	.1	.7	3.9	3.5	*	*	*	.0	2.1	
NE	.3	.0	.2	.8	3.3	1.8	.1	*	*	*	1.1	
E	.4	.0	.2	1.1	2.7	2.3	.1	.0	*	*	1.2	
SE	.4	.0	.3	1.1	3.1	2.0	.1	*	.1	.1	1.2	
S	.4	.0	.3	1.4	4.6	3.0	.2	.1	.1	*	1.7	
SW	.3	.0	.2	.7	5.6	4.8	.1	*	.1	*	2.4	
W	.1	.0	.1	.4	8.7	6.9	.4	.1	*	*	3.3	
NW	.2	.0	.2	.6	7.8	6.1	.1	*	*	*	3.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	.0	*	.2	.2	.0	*	.0	*	.2	
TOT OBS	126	0	93	393	2259	1732	61	14	19	15	959	5671
TOT PCT	2.2	.0	1.6	6.9	39.8	30.5	1.1	.2	.3	.3	16.9	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	.3	.5	.6	.6	.6	.6	.6	.6
* OR >5000	.4	.8	.8	.8	.8	.8	.8	.8
* OR >3500	1.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9
* OR >2000	15.7	31.2	32.2	32.3	32.5	32.5	32.5	32.5
* OR >1000	25.5	65.8	70.5	71.7	72.1	72.2	72.3	72.3
* OR >600	25.9	69.6	76.2	78.0	78.9	79.1	79.2	79.2
* OR >300	25.9	70.1	77.3	79.3	80.5	80.8	80.8	80.8
* OR >150	25.9	70.1	77.3	79.3	80.5	80.8	80.8	80.8
* OR > 0	25.9	70.1	77.4	79.6	81.4	82.3	83.0	83.1
TOTAL	1470	3974	4393	4518	4616	4668	4709	4712

TOTAL NUMBER OF OBS: 5673

PCT FREQ NH <5/8: 16.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
.9	1.2	6.1	5.2	3.5	7.5	15.3	11.0	47.1	2.2	5677

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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	.1	.1	.2	.1	.1	.2	.1	.1	.0	*	.9	
<1/2	NO PCP	.1	.1	.1	.2	.2	.1	*	.0	.0	*	.8	
	TOT %	.2	.2	.3	.3	.3	.3	.2	.1	.0	*	1.7	
	PCP	.1	.1	.2	.2	.2	.2	.1	.1	.0	*	1.3	
1/2<1	NO PCP	.0	*	.2	.1	.1	*	*	*	.0	*	.5	
	TOT %	.1	.2	.4	.3	.3	.2	.1	.1	.0	*	1.8	
	PCP	.2	.3	.4	.3	.3	.2	.2	.3	.0	.0	2.0	
1<2	NO PCP	.0	*	.1	*	.1	*	*	*	.0	.0	.4	
	TOT %	.2	.3	.5	.3	.4	.2	.2	.3	.0	.0	2.3	
	PCP	.6	.6	.8	.8	1.2	.8	1.0	1.0	.0	.0	6.8	
2<5	NO PCP	*	.1	.1	.2	.2	.1	.2	.1	.0	.0	.9	
	TOT %	.6	.7	1.0	1.0	1.3	.9	1.1	1.0	.0	.0	7.7	
	PCP	2.5	1.7	1.7	2.1	2.8	2.7	4.0	4.3	.0	.1	21.9	
5<10	NO PCP	3.2	2.4	1.9	1.9	3.3	4.3	6.4	6.2	.0	.1	29.8	
	TOT %	5.6	4.1	3.7	4.0	6.2	7.1	10.3	10.4	.0	.2	51.6	
	PCP	.5	.2	.2	.2	.3	.5	1.2	1.0	.0	.0	4.2	
10+	NO PCP	3.4	2.0	2.1	2.2	3.0	4.9	6.8	5.9	.0	.4	30.6	
	TOT %	3.9	2.2	2.3	2.5	3.3	5.4	8.0	6.8	.0	.4	34.8	
	TOT OBS												5642
	TOT PCT	10.6	7.7	8.1	8.3	11.7	14.1	20.0	18.9	.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
	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	
<1/2	4-10	*	.1	*	*	.0	.0	*	*	.0		.2	
	11-21	.1	*	.1	.1	.1	.1	.1	*	.0		.5	
	22+	.1	*	.2	.2	.2	.1	.1	.1	.0		.9	
	TOT %	.2	.2	.3	.3	.3	.3	.2	.1	.0	*	1.7	
	0-3	.0	.0	.0	.0	.0	*	.0	*	.0	*	.1	
1/2<1	4-10	*	.0	*	*	*	*	.0	.0	.0		.1	
	11-21	*	*	*	*	*	.1	.1	*	.0		.4	
	22+	.1	.1	.3	.2	.3	.1	.1	.1	.0		1.2	
	TOT %	.1	.2	.4	.3	.3	.2	.1	.1	.0	*	1.8	
	0-3	*	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
1<2	4-10	*	.0	*	.0	*	*	*	*	.0		.1	
	11-21	*	.1	.1	.1	.1	.1	*	.1	.0		.6	
	22+	.1	.2	.4	.2	.3	.1	.1	.2	.0		1.6	
	TOT %	.2	.3	.5	.3	.4	.2	.2	.3	.0	.0	2.3	
	0-3	.0	.0	*	.0	.0	.0	*	*	.0	.0	.1	
2<5	4-10	.1	.1	.1	*	*	.1	.1	*	.0		.5	
	11-21	.2	.2	.2	.3	.3	.3	.2	.3	.0		2.0	
	22+	.4	.4	.6	.6	1.0	.6	.9	.7	.0		5.1	
	TOT %	.6	.7	.9	1.0	1.3	.9	1.2	1.0	.0	.0	7.7	
	0-3	.1	*	.1	*	*	.1	.1	.1	.0	.2	.8	
5<10	4-10	.8	.6	.5	.4	.5	.7	.9	1.1	.0		5.4	
	11-21	2.3	1.4	1.4	1.2	2.1	2.6	3.3	3.5	.0		17.7	
	22+	2.4	2.1	1.6	2.3	3.5	3.7	6.1	5.8	.0		27.5	
	TOT %	5.6	4.1	3.6	4.0	6.1	7.1	10.3	10.4	.0	.2	51.5	
	0-3	*	*	.1	.1	.1	.1	.1	.1	.0	.4	.9	
10+	4-10	.9	.6	.8	.8	.6	.9	1.3	1.2	.0		7.2	
	11-21	1.7	.8	.9	.9	1.6	2.6	3.4	3.0	.0		15.0	
	22+	1.2	.8	.6	.6	1.1	1.8	3.4	2.6	.0		12.0	
	TOT %	3.9	2.2	2.3	2.5	3.3	5.5	8.1	6.9	.0	.4	35.0	
	TOT OBS												5672
	TOT PCT	10.5	7.6	8.1	8.3	11.7	14.2	20.1	18.9	.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	2.2	.0	1.1	6.9	38.2	31.0	.2	.3	.4	.3	80.7	19.3	1434
06&09	1.5	.0	.9	4.9	40.4	33.4	.4	.2	.3	.1	82.2	17.8	1397
12&15	2.8	.0	2.5	8.1	38.8	30.5	1.9	.2	.4	.3	85.5	14.5	1439
18&21	2.4	.0	2.1	7.8	41.8	27.3	1.8	.2	.2	.3	83.8	16.2	1405
TOT	126	0	93	394	2259	1733	61	14	19	15	4714	961	5675
PCT	2.2	.0	1.6	6.9	39.8	30.5	1.1	.2	.3	.3	83.1	16.9	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	1.7	1.5	2.1	7.7	52.6	34.4	1434
06&09	1.0	1.1	2.9	7.1	54.1	34.5	1399
12&15	2.1	2.4	2.1	7.5	49.3	36.6	1438
18&21	2.1	1.9	2.8	8.5	50.1	34.6	1405
TOT	97	100	131	436	2924	1988	5676
PCT	1.7	1.8	2.3	7.7	51.5	35.0	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	2.2	4.6	17.2	63.9	19.0	1433
06&09	1.5	3.2	14.6	67.9	17.5	1397
12&15	2.8	6.7	19.1	67.1	13.8	1438
18&21	2.4	5.9	19.8	64.4	15.8	1405
TOT	126	291	1002	3734	937	5673
PCT	2.2	5.1	17.7	65.8	16.5	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
50/54	.0	.0	.0	.0	*	.0	.0	.0	1	*
45/49	.0	.0	.0	*	.0	.2	.5	1.3	118	2.1
40/44	.0	.0	.0	.1	1.1	3.5	6.9	11.2	1281	22.7
35/39	.0	.0	.1	1.8	6.6	13.0	11.7	11.8	2547	45.1
30/34	.0	.0	.3	2.0	6.7	6.9	6.8	3.6	1482	26.2
25/29	.0	.0	*	.2	.8	1.2	.7	.7	208	3.7
20/24	.0	.0	.0	.0	*	.1	.1	*	15	.3
TOTAL	0	0	21	234	862	1405	1510	1620	5652	100.0
PCT	.0	.0	.4	4.1	15.3	24.9	26.7	28.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	*	.0	.0	.0	.0	.0
*	.2	.3	.5	.8	.2	*	*	.0	.0
1.6	2.4	3.0	3.7	4.7	3.3	2.3	1.5	.0	.2
6.1	4.0	4.0	3.3	4.6	6.5	8.0	8.4	.0	.3
2.8	1.0	.6	.6	1.5	3.5	7.9	8.1	.0	.2
.1	*	.1	.1	.2	.6	1.7	.9	.0	.0
.0	*	.0	.0	*	.1	.1	*	.0	.0
10.6	7.7	8.0	8.2	11.8	14.2	20.1	18.9	.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	48	45	43	37	30	27	21	36.6	1435
06&09	50	45	43	37	30	27	22	36.6	1399
12&15	48	45	43	37	30	26	21	36.7	1439
18&21	46	45	43	36	30	27	22	36.6	1404
TOT	50	45	43	37	30	27	21	36.6	5677

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	4.5	15.0	24.8	25.2	30.5	81	1432
06&09	.0	3.7	15.3	24.9	28.1	28.0	81	1395
12&15	.0	5.2	14.2	27.2	26.5	26.8	80	1432
18&21	.0	4.6	16.5	22.5	27.0	29.3	81	1397
TOT	0	255	862	1407	1510	1622	80	5656

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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	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
6	.0	.0	.0	.0	.0	*	.1	5	*	.1
5	.0	.0	.0	.0	.0	.1	.2	17	.1	.2
4	.0	.0	.0	*	*	.5	.3	46	*	.8
3	.0	.0	.0	*	.2	1.6	.3	116	.1	1.9
2	.0	.0	.0	.0	.5	2.2	.6	186	.3	3.0
1	.0	.0	.0	.0	1.2	2.7	.2	234	.4	3.7
0	.0	.0	.0	*	2.7	3.0	.4	343	.2	5.9
-1	.0	.0	*	.1	4.9	2.1	*	403	.2	6.9
-2	.0	.0	*	.9	5.9	1.0	.0	440	.2	7.6
-3	.0	.0	*	1.6	6.9	1.0	.1	535	.2	9.3
-4	.0	.0	.0	4.0	5.5	.5	.0	566	.1	9.9
-5	.0	.0	.1	5.5	4.1	.1	.0	556	.0	9.9
-6	.0	*	.9	6.4	1.5	.1	.0	496	.0	8.8
-7/-8	.0	.1	5.0	9.5	1.2	*	.0	893	*	15.8
-9/-10	.0	.4	4.7	2.9	.5	.0	.0	481	.0	8.5
-11/-13	*	.9	2.2	1.0	*	.0	.0	233	.0	4.1
-14/-16	.1	.4	.3	.1	.0	.0	.0	48	.0	.9
-17/-19	.1	.2	.3	.0	.0	.0	.0	32	.0	.6
-20/-22	*	.1	.0	.0	.0	.0	.0	4	.0	.1
TOTAL	16	113	760	1808	1988	831	118	5636	106	5528
PCT	.3	2.0	13.5	32.1	35.3	14.7	2.1	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	.1	.2	.0	.0	.0	.0	.3
1-2	.0	.3	.3	.0	.0	.0	.6
3-4	.0	.2	.7	.1	.0	.0	1.1
5-6	.0	.3	.9	.2	.0	.0	1.4
7	.0	.3	.6	.4	.0	.0	1.3
8-9	.0	*	.3	.4	.1	.0	.8
10-11	.0	.1	.4	.4	.0	*	.9
12	.0	*	.4	.4	.1	.0	.9
13-16	.0	.0	.0	.2	.2	.0	.5
17-19	.0	.0	.0	.1	.2	.0	.3
20-22	.0	.0	.0	.1	.1	.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	.1	1.6	3.6	2.3	.8	*	8.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.2	.0	.0	.0	.0	.2
1-2	.0	.4	.2	.0	.0	.0	.6
3-4	.0	.2	.4	*	.0	.0	.7
5-6	.0	.0	.5	.4	.0	.0	.9
7	.0	.1	.1	.4	.0	.0	.6
8-9	.0	*	.1	.3	.0	.0	.4
10-11	.0	.0	.3	.4	.1	.0	.8
12	*	.0	.2	.4	.3	.0	.8
13-16	.0	.0	.1	.9	.4	.0	1.4
17-19	.0	.0	.1	.2	.4	.0	.7
20-22	.0	.0	.0	*	.2	.0	.2
23-25	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.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	*	.9	1.9	3.0	1.6	.1	7.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.4	.0	.0	.0	.0	.4
1-2	*	.4	.2	.0	.0	.0	.7
3-4	*	.2	.7	.1	.0	.0	1.2
5-6	.0	*	.6	.1	.0	.0	.7
7	.0	.0	.4	.3	.0	.0	.7
8-9	.0	*	.1	.5	.0	.0	.7
10-11	.0	.0	.2	.4	*	.0	.7
12	.1	*	.2	.1	.2	.0	.6
13-16	.0	.0	.0	.4	.4	.0	.8
17-19	.0	.0	*	.2	.2	.1	.6
20-22	.0	.0	.0	*	.2	.1	.3
23-25	.0	.0	.0	.0	.1	.3	.4
26-32	.0	.0	.0	.0	.0	.5	.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	.2	1.2	2.5	2.2	1.1	1.1	8.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.0	.0	.0	.0	.9
1-2	*	.4	.4	.0	.0	.0	.8
3-4	.0	.2	.9	.2	.0	.0	1.3
5-6	.0	.2	.3	.3	.0	.0	.8
7	.0	*	.3	.4	*	.0	.8
8-9	.0	*	.2	.7	*	.0	1.0
10-11	.0	*	*	.5	.1	.0	.7
12	.0	.0	.1	.6	.2	.0	.9
13-16	.0	.0	.0	.6	.4	.0	1.0
17-19	.0	.0	*	.1	.4	.0	.5
20-22	.0	.0	.0	.1	.2	.0	.3
23-25	.0	.0	.0	*	.2	.1	.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	.2	1.6	2.4	3.4	1.5	.1	9.2

PERIOD: (OVER-ALL) 1963-1972 NOVEMBER AREA 0002 OSV BRAVO

TABLE 18 (CONT) 56.5N 51.0W

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	.3	.0	.0	.0	.0	.4	.1	.2	.0	.0	.0	.0	.3
1-2	.0	.1	.4	.0	.0	.0	.5	.1	.3	.1	.0	.0	.0	.6
3-4	.0	.4	.7	*	.0	.0	1.1	.0	.3	1.0	.0	.0	.0	1.3
5-6	.0	.2	.8	.3	.0	.0	1.3	.0	.3	1.0	.2	.0	.0	1.5
7	.0	.2	.5	.4	*	.0	1.3	.0	.2	1.4	1.0	*	.0	2.6
8-9	.0	.1	.7	.9	.1	.0	1.9	*	.1	.8	.7	*	.0	1.7
10-11	.0	.0	.6	1.0	.3	.0	1.9	.0	.2	1.4	.9	.0	.0	2.5
12	.0	.0	.5	.8	.2	.0	1.5	.0	.0	.4	1.2	.1	.0	1.7
13-16	.0	.1	.1	.9	.8	.1	2.0	.0	.0	.1	1.7	.8	*	2.6
17-19	.0	.0	.0	.3	.5	.1	.9	.0	.0	.1	*	.4	.1	.6
20-22	.0	.0	.0	.1	.3	.1	.4	.0	.0	.0	.3	.3	.2	.8
23-25	.0	.0	.0	*	.1	.1	.2	.0	.0	.0	.0	*	.0	*
26-32	.0	.0	.0	.0	.1	.1	.2	.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	1.4	4.3	4.9	2.4	.5	13.7	.2	1.7	6.3	5.9	1.7	.4	16.1

	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	.1	.2	.0	.0	.0	.0	.3	.1	.3	*	.0	.0	.0	.5	
1-2	.0	.6	.1	.0	.0	.0	.7	.0	.8	.3	.0	.0	.0	1.1	
3-4	.0	.4	.6	.2	.0	.0	1.3	.0	.5	1.0	*	.0	.0	1.5	
5-6	.0	.2	1.1	.3	.0	.0	1.6	.0	.2	.8	.3	*	.0	1.3	
7	.0	.2	1.4	.8	.0	.0	2.4	.0	.4	1.4	1.0	.0	.0	2.7	
8-9	.0	.1	1.0	1.4	.0	.0	2.6	.0	.2	.9	.8	.1	.0	2.0	
10-11	.1	.1	.8	1.8	.1	.0	2.9	.1	.1	.6	.9	.1	*	1.8	
12	.0	.0	.7	1.9	.3	.0	2.9	.0	*	.3	1.2	.2	.0	1.8	
13-16	.0	.0	.3	1.4	.5	.0	2.3	.0	.0	.3	1.2	.4	.0	1.9	
17-19	.0	.0	.0	.3	.3	*	.7	.0	.0	*	.5	.5	.0	1.0	
20-22	.0	*	.0	.2	.2	*	.4	.0	*	*	.1	.8	*	1.0	
23-25	.0	.0	.0	*	.4	*	.4	.0	.0	.0	*	.3	*	.3	
26-32	.0	.0	.0	.0	.3	.1	.5	.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	1.8	6.1	8.5	2.1	.2	18.9	.2	2.5	5.8	5.9	2.4	.1	16.9	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	1.6	2.6	*	.0	.0	.0	4.2	
1-2	.2	3.4	2.1	.0	.0	.0	5.7	
3-4	*	2.4	6.2	.8	.0	.0	9.4	
5-6	.0	1.3	6.0	2.0	*	.0	9.3	
7	.0	1.5	6.1	4.7	.1	.0	12.4	
8-9	*	.7	4.2	5.7	.4	.0	11.0	
10-11	.2	.5	4.5	6.4	.6	*	12.3	
12	.1	.1	2.6	6.6	1.6	.0	11.0	
13-16	*	.1	.9	7.3	4.0	.1	12.5	
17-19	.0	.0	.3	1.7	2.9	.3	5.2	
20-22	.0	*	*	.9	2.2	.5	3.6	
23-25	.0	.0	.0	.1	1.2	.6	1.8	
26-32	.0	.0	.0	.0	.6	.9	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	
								2110
TOT PCT	2.2	12.6	33.0	36.0	13.6	2.6	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	.3	3.6	3.4	2.4	.7	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	620	5
6-7	.0	.0	1.5	4.5	7.2	7.0	6.4	4.6	2.5	.6	.3	*	*	.0	.0	.0	.0	.0	.0	1917	9
8-9	*	.0	.5	.9	3.1	4.6	6.2	6.1	6.2	3.0	1.5	.8	.6	.0	.0	.0	.0	.0	.0	1843	12
10-11	.0	.0	*	.2	.5	.6	1.2	1.5	3.1	2.6	1.1	.9	.9	.0	.0	.0	.0	.0	.0	702	16
12-13	.0	.0	*	*	*	.2	.2	.1	.3	.4	.7	.5	.3	.0	.0	.0	.0	.0	.0	152	18
>13	.0	.0	.0	.0	*	.1	.1	.0	.1	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	40	19
INDET	.2	.4	1.1	.6	1.1	.4	.4	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	246	6
TOTAL	16	42	369	525	800	751	823	694	681	373	207	135	104	0	0	0	0	0	0	5520	10
PCT	.3	.8	6.7	9.5	14.5	13.6	14.9	12.6	12.3	6.8	3.8	2.4	1.9	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1953-1972
(OVER-ALL) 1945-1972

AREA 0002 OSV BRAVO
56.5N 51.1W

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 SNOW	NO SIG WEA
N	3.1	.9	.2	.0	38.6	.3	1.5	43.6	6.9	.1	.7	.1	.2	.0		48.5
NE	13.0	1.6	2.8	.3	30.1	.1	.2	44.6	4.3	.0	1.9	.0	.0	.0		49.3
E	25.6	1.9	7.0	.1	18.6	.8	.2	52.3	5.9	.0	1.5	.0	.6	1.3		38.4
SE	22.0	2.7	5.7	.0	17.6	.2	.1	46.9	4.8	.0	5.3	.0	.0	.8		42.3
S	13.9	1.9	1.7	.0	27.1	.1	.7	43.1	6.0	.0	3.0	.0	.2	.1		47.6
SW	5.6	1.1	.3	.0	39.4	.0	.3	45.6	4.7	.0	1.3	.0	.0	.2		48.2
W	1.3	.7	.3	.0	48.1	.3	1.4	51.8	8.7	.0	.1	.0	.0	.1		39.3
NW	.8	.5	.1	.0	40.8	.2	1.1	42.9	11.2	*	.0	*	.0	.0		45.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	2.9	.0	2.9	.0	5.9	.0	.0	11.8	.0	.0	.0	.0	.0	.0		88.2
TOT PCT	7.6	1.1	1.6	*	35.9	.2	.8	46.2	7.4	*	1.2	*	.1	.2		44.9
TOT OBS:	5760															

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 SNOW	NO SIG WEA
00&03	7.8	1.5	1.4	.0	37.5	.1	.7	47.3	7.6	.0	.8	.0	.1	.4		43.8
06&09	8.0	1.1	1.4	.1	36.2	.0	.6	46.1	7.5	.0	.7	.0	.1	.1		45.5
12&15	7.6	1.3	1.6	.1	33.8	.4	1.2	44.9	7.5	.0	1.9	.0	.0	.3		45.3
18&21	7.2	.8	1.9	.0	36.2	.4	.8	46.4	6.8	.1	1.3	.1	.2	.2		45.0
TOT PCT	7.6	1.1	1.6	*	35.9	.2	.8	46.2	7.4	*	1.2	*	.1	.2		44.9
TOT OBS:	5765															

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	3.9	4.1	1.7	.3		11.6	23.1	12.2	13.0	11.3	11.5	10.6	11.4	10.3	12.3
NE	*	1.0	2.5	2.2	1.6	.1		7.4	24.2	7.5	6.7	7.2	7.2	8.1	7.4	8.1	7.2
E	.1	1.0	2.6	2.9	2.0	.4		9.1	25.4	9.6	9.5	9.0	9.1	9.6	7.6	8.8	9.4
SE	*	.7	2.5	2.3	1.3	.1		7.1	23.7	7.0	8.6	7.5	6.6	5.9	7.1	6.6	7.4
S	.1	1.2	3.3	3.1	1.1	.1		8.8	21.6	9.6	8.2	8.0	8.7	8.6	9.2	8.6	9.0
SW	*	1.5	4.1	5.3	2.1	.3		13.5	23.8	14.0	12.9	12.4	12.8	13.6	14.4	13.8	14.0
W	.2	1.8	6.5	7.9	3.1	.3		19.7	23.7	18.0	18.2	20.9	21.0	20.6	20.1	19.8	18.8
NW	.1	1.7	7.4	9.2	3.6	.4		22.4	24.3	21.8	22.6	23.2	22.2	22.5	22.2	23.4	20.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6							.6	.0	.4	.4	.6	.8	.6	.6	.6	.8
TOT OBS	70	602	1900	2140	958	115	5785		23.6	724	727	724	724	723	722	721	720
TOT PCT	1.2	10.4	32.8	37.0	16.6	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	.6	3.1	3.7	3.5	.7		11.6	23.1	12.6	11.4	11.0	11.3
NE	.3	1.9	2.3	2.2	.7		7.4	24.2	7.1	7.2	7.7	7.7
E	.4	2.0	3.0	2.9	.9		9.1	25.4	9.5	9.1	8.6	9.1
SE	.2	1.8	2.6	2.0	.5		7.1	23.7	7.8	7.0	6.5	7.0
S	.5	2.5	3.4	1.9	.4		8.8	21.6	8.9	8.4	8.9	8.8
SW	.6	2.9	5.3	3.9	.8		13.5	23.8	13.4	12.6	14.0	13.9
W	.7	4.2	8.1	5.7	1.0		19.7	23.7	18.1	20.9	20.4	19.3
NW	.6	4.5	9.0	7.1	1.1		22.4	24.3	22.2	22.7	22.4	22.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.6						.6	.0	.4	.7	.6	.7
TOT OBS	257	1325	2160	1693	350	5785		23.6	1451	1448	1445	1441
TOT PCT	4.4	22.9	37.3	29.3	6.1		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	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.4	.8	10.5	33.6	34.5	18.5	1.7	23.8	100.0	1451
06&09	.7	.5	11.0	32.0	37.8	16.2	1.8	23.5	100.0	1448
12&15	.6	.6	10.2	33.6	37.3	15.4	2.4	23.5	100.0	1445
18&21	.7	.6	9.9	32.2	38.4	16.2	2.0	23.7	100.0	1441
TOT	34	36	602	1900	2140	958	115	23.6		5785
PCT	.6	.6	10.4	32.8	37.0	16.6	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	.6	3.4	7.1		7.0
NE	.2	.2	1.4	5.6		7.3
E	.1	.2	1.3	7.5		7.5
SE	.2	.4	1.2	5.3		7.3
S	.3	.3	2.1	6.2		7.2
SW	.7	.5	3.7	8.6		7.0
W	.5	1.2	7.6	10.4		6.9
NW	1.0	1.9	9.6	9.9		6.5
VAR	.0	.0	.0	.0		.0
CALM	.1	.1	.2	.2		5.6
TOT OBS	201	299	1760	3517	5777	7.0
TOT PCT	3.5	5.2	30.5	60.9	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	.5	.0	*	.6	4.3	1.9	.2	.1	*	.1	1.9	
NE	.5	*	.1	.9	2.7	1.9	.2	*	.0	.0	1.1	
E	.3	*	.2	1.5	3.7	1.8	.1	.0	*	*	1.3	
SE	.4	.0	.1	1.0	2.6	1.4	.1	*	*	*	1.3	
S	.4	*	.2	.9	3.1	2.4	.2	*	*	.1	1.4	
SW	.7	*	.1	.7	5.7	4.0	.1	.1	*	.1	2.1	
W	.6	.0	.1	.6	8.5	7.2	.1	*	*	*	2.5	
NW	.6	.0	.1	.4	9.2	7.6	.4	*	*	*	4.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.1	.1	*	.0	*	.0	.4	
TOT OBS	236	7	53	376	2303	1750	84	14	13	17	929	5777
TOT PCT	4.1	*	.9	6.5	39.9	30.3	1.5	.2	.2	.3	16.1	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	.3	.5	.5	.5	.5	.5	.5	.5
* OR >5000	.4	.7	.8	.8	.8	.8	.8	.8
* OR >3500	1.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
* OR >2000	12.4	30.6	32.2	32.4	32.5	32.5	32.5	32.5
* OR >1000	18.7	62.0	69.5	71.5	72.2	72.4	72.4	72.4
* OR >600	19.0	64.7	74.6	77.6	78.6	78.8	78.9	78.9
* OR >300	19.1	65.0	75.1	78.3	79.4	79.7	79.8	79.8
* OR >150	19.1	65.0	75.2	78.3	79.4	79.7	79.8	79.8
* OR > 0	19.1	65.1	75.8	79.4	81.6	83.2	83.9	83.9
TOTAL	1103	3763	4380	4592	4718	4809	4848	4850

TOTAL NUMBER OF OBS: 5780 PCT FREQ NH <5/8: 16.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.1	1.2	5.2	5.2	3.5	7.4	15.3	11.8	45.3	4.1	5791

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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	.3	.4	.2	.2	.1	.3	.3	.3	.0	.0	2.0	
<1/2	NO PCP	.0	*	*	.1	.1	.1	*	.0	.0	.0	.3	
	TOT %	.3	.4	.2	.3	.1	.3	.3	.3	.0	.0	2.3	
	PCP	.4	.3	.2	.2	.2	.2	.3	.4	.0	.0	2.2	
1/2<1	NO PCP	*	.0	*	*	*	*	.0	.0	.0	.0	.1	
	TOT %	.4	.3	.3	.2	.2	.2	.3	.4	.0	.0	2.3	
	PCP	.5	.3	.5	.3	.3	.4	.5	.6	.0	.0	3.4	
1<2	NO PCP	*	*	.1	.1	.1	*	*	*	.0	.0	.4	
	TOT %	.5	.4	.6	.4	.4	.4	.5	.6	.0	.0	3.8	
	PCP	.9	.9	1.5	.9	.9	1.4	1.8	1.8	.0	.0	10.2	
2<5	NO PCP	.1	.1	.2	.1	.1	.1	.2	.1	.0	.0	1.0	
	TOT %	1.0	1.0	1.7	1.0	1.0	1.4	2.0	1.9	.0	.0	11.2	
	PCP	2.6	1.2	2.2	1.7	2.1	3.4	6.2	5.8	.0	.1	25.3	
5<10	NO PCP	3.5	1.9	2.3	1.9	2.2	3.9	5.1	6.8	.0	*	27.6	
	TOT %	6.2	3.1	4.5	3.5	4.4	7.2	11.3	12.6	.0	.1	52.9	
	PCP	.3	.2	.1	.1	.2	.5	1.0	.7	.0	.0	3.1	
10+	NO PCP	2.9	2.1	1.7	1.5	2.4	3.5	4.1	5.9	.0	.5	24.4	
	TOT %	3.2	2.2	1.8	1.7	2.6	3.8	5.1	6.5	.0	.5	27.5	
	TOT OBS												5760
	TOT PCT	11.6	7.5	9.1	7.1	8.8	13.9	19.6	22.3	.0	.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
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	*	*	.0	.0	.0	*	*	*	.0		.1	
	11-21	*	*	*	.1	.0	.1	.1	*	.0		.3	
	22+	.3	.4	.2	.2	.1	.2	.3	.2	.0		1.8	
	TOT %	.3	.4	.2	.3	.1	.3	.3	.3	.0	.0	2.3	
	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
1/2<1	4-10	*	*	*	*	*	*	*	.0	.0		.2	
	11-21	*	*	*	*	.1	.1	.1	.1	.0		.5	
	22+	.4	.3	.2	.1	.1	.1	.2	.3	.0		1.6	
	TOT %	.4	.3	.3	.2	.2	.2	.3	.4	.0	.0	2.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.1	*	*	*	*	*	*	*	.0		.2	
	11-21	.1	.1	.1	.1	.1	.1	.1	.1	.0		.7	
	22+	.4	.3	.5	.3	.2	.3	.4	.5	.0		2.9	
	TOT %	.5	.4	.6	.4	.4	.4	.5	.6	.0	.0	3.8	
	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
2<5	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0		.6	
	11-21	.2	.2	.2	.2	.3	.3	.5	.4	.0		2.2	
	22+	.7	.8	1.4	.8	.7	1.1	1.5	1.5	.0		8.3	
	TOT %	1.0	1.0	1.7	1.0	1.0	1.5	2.0	2.0	.0	.0	11.2	
	0-3	*	*	*	.0	.0	*	.1	*	.0	.1	.3	
5<10	4-10	.6	.4	.5	.3	.4	.8	.9	.8	.0		4.8	
	11-21	2.1	1.2	1.7	1.4	1.7	2.3	3.5	3.4	.0		17.1	
	22+	3.4	1.5	2.3	1.9	2.3	4.1	6.8	8.3	.0		30.5	
	TOT %	6.1	3.1	4.5	3.5	4.4	7.2	11.3	12.9	.0	.1	52.8	
	0-3	*	*	.1	*	*	*	.2	*	.0	.5	.9	
10+	4-10	.7	.4	.4	.3	.6	.5	.7	.8	.0		4.4	
	11-21	1.5	1.1	.6	.8	1.2	1.4	2.2	3.3	.0		12.0	
	22+	1.0	.8	.8	.5	.8	1.8	2.1	2.5	.0		10.3	
	TOT %	3.2	2.2	1.8	1.7	2.6	3.8	5.2	6.6	.0	.5	27.6	
	TOT OBS												5782
	TOT PCT	11.6	7.4	9.1	7.1	8.8	13.5	19.6	22.4	.0	.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
00Z03	4.6	.0	.3	5.5	37.0	30.6	1.7	.6	.3	.2	80.8	19.2	1452
06Z09	4.1	.0	.8	4.4	38.8	33.1	1.5	.2	.3	.3	83.6	16.4	1448
12Z15	3.7	.0	1.0	8.1	42.5	28.3	1.6	.2	.1	.2	85.7	14.3	1444
18Z21	3.8	.1	1.4	8.0	41.2	29.1	1.1	.0	.2	.5	85.5	14.5	1442
TOT	236	2	52	376	2306	1752	84	14	13	17	4853	933	5786
PCT	4.1	*	.9	6.5	39.9	30.3	1.5	.2	.2	.3	83.9	16.1	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
00Z03	2.9	2.1	3.9	11.7	51.0	28.9	1452
06Z09	1.2	2.3	3.4	11.2	54.9	26.9	1451
12Z15	2.3	2.6	4.3	10.2	53.5	27.2	1445
18Z21	2.8	2.2	4.2	11.7	51.7	27.5	1440
TOT	133	133	220	647	3055	1600	5788
PCT	2.3	2.3	3.8	11.2	52.8	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
00Z03	4.6	6.4	22.2	59.2	18.6	1451
06Z09	4.1	5.9	20.6	63.8	15.5	1448
12Z15	3.7	6.6	22.9	63.5	13.5	1443
18Z21	3.8	7.0	24.8	61.5	13.8	1438
TOT	236	374	1308	3584	888	5780
PCT	4.1	6.5	22.6	62.0	15.4	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
45/49	.0	.0	.0	.0	.0	*	.1	*	5	.1
40/44	*	.0	.0	.0	.1	.4	1.8	5.3	436	7.6
35/39	.0	.0	*	.5	2.8	6.8	8.1	7.9	1500	26.2
30/34	.0	.0	.3	2.3	8.2	11.0	9.5	6.3	2153	37.6
25/29	.0	.0	.1	1.6	4.7	6.6	4.2	2.8	1145	20.0
20/24	.0	.0	.2	.3	1.6	2.4	1.9	.7	416	7.3
15/19	.0	.0	.0	.1	.2	.4	.3	.1	63	1.1
10/14	.0	.0	.0	.0	*	*	.1	*	12	.2
TOTAL	1	0	34	281	1009	1584	1499	1322	5730	100.0
PCT	*	.0	.6	4.9	17.6	27.6	26.2	23.1		

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
.1	.8	2.6	2.0	1.3	.6	.1	*	.0	*
2.9	3.0	3.9	3.2	3.4	3.9	2.8	3.0	.0	.1
5.8	2.6	2.0	1.4	2.8	4.5	7.1	11.0	.0	.3
2.2	.7	.3	.2	.9	3.5	6.1	5.8	.0	.1
.5	.1	*	.1	.3	1.0	2.9	2.3	.0	*
*	.0	*	*	.1	.1	.6	.2	.0	.0
.0	.0	.0	.0	.0	*	.2	*	.0	.0
11.6	7.3	8.9	7.0	8.8	13.6	19.8	22.4	.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
00Z03	45	42	40	33	23	19	12	32.2	1452
06Z09	44	42	40	33	23	18	12	32.1	1451
12Z15	46	43	40	33	23	18	14	32.3	1445
18Z21	46	43	41	32	23	19	13	32.2	1443
TOT	46	42	40	33	23	19	12	32.2	5791

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	5.8	18.6	27.9	25.6	22.1	79	1432
06Z09	.0	6.0	17.3	27.4	26.1	23.2	79	1442
12Z15	.0	6.2	18.3	28.1	24.9	22.5	79	1428
18Z21	.1	4.0	16.3	27.3	28.0	24.3	80	1434
TOT	1	316	1010	1587	1500	1322	79	5736

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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	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
9/10	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	1	.0	*
7/8	.0	.0	.0	.0	.0	.0	.0	*	.1	.1	8	*	.1
6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	3	.0	.1
5	.0	.0	.0	.0	.0	.0	.0	*	.2	.0	11	*	.2
4	.0	.0	.0	.0	.0	.0	.0	.1	.5	.0	36	.1	.5
3	.0	.0	.0	.0	.0	.0	.0	.3	.8	*	65	.1	1.0
2	.0	.0	.0	.0	.0	.0	*	.7	1.8	*	143	.3	2.2
1	.0	.0	.0	.0	.0	.0	.1	2.7	.8	.0	209	.2	3.5
0	.0	.0	.0	.0	.0	*	.2	3.1	.2	.0	205	.1	3.5
-1	.0	.0	.0	.0	.0	.0	.6	3.8	.1	.0	260	.1	4.4
-2	.0	.0	.0	.0	*	.0	1.7	2.9	.1	.0	271	.1	4.6
-3	.0	.0	.0	.0	*	.1	3.6	1.9	.1	.0	326	*	5.6
-4	.0	.0	.0	.0	.0	.4	5.0	.4	*	.0	334	*	5.8
-5	.0	.0	.0	.0	*	1.0	6.9	.3	.0	.0	475	.1	8.2
-6	.0	.0	.0	.0	*	2.9	5.3	.2	.0	.0	485	.1	8.4
-7/-8	.0	.0	.0	*	.6	11.1	3.7	.4	.0	.0	909	.0	15.8
-9/-10	.0	.0	.0	*	2.3	8.4	.9	.1	.0	.0	673	.0	11.7
-11/-13	.0	.0	*	1.0	8.2	2.8	.6	.0	.0	.0	724	*	12.5
-14/-16	.0	.0	*	3.9	2.8	.3	.0	.0	.0	.0	407	.0	7.1
-17/-19	.0	.0	1.1	1.6	.1	*	.0	.0	.0	.0	163	.0	2.8
-20/-22	.0	.1	.5	.0	.0	.0	.0	.0	.0	.0	34	.0	.6
-23/-25	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	8	.0	.1
-26/-30	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	.1
TOTAL	9	17	95	375	611	1559	1648	974	270	5	5757	68	5689
PCT	.1	.3	1.7	6.5	14.1	27.1	28.6	16.9	4.7	.1	100.0	1.2	98.8

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	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.1	.1	.0	.0	.0	.2
3-4	.0	.2	.8	.1	.0	.0	1.1
5-6	.0	.0	1.0	.2	.0	.0	1.2
7	.0	.1	.8	.3	.0	.0	1.2
8-9	.0	.0	.6	1.0	.1	.0	1.7
10-11	.0	.1	.3	1.0	.3	.0	1.6
12	.0	.0	.3	.5	.2	.0	1.0
13-16	.0	*	.3	.7	.4	.0	1.5
17-19	.0	*	.0	.3	.2	.0	.5
20-22	.0	.0	.0	.1	.5	.1	.7
23-25	.0	.0	.0	.0	.2	.2	.4
26-32	.0	.0	.0	.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	.0	.8	4.2	4.2	2.0	.4	11.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	*	.0	.0	.0	.2
1-2	.0	.1	.4	.0	.0	.0	.5
3-4	.0	.3	.7	.1	.0	.0	1.1
5-6	.0	*	.4	.4	*	.0	.8
7	.0	.0	.2	.4	.1	.0	.7
8-9	.0	.0	.3	.4	.1	.0	.9
10-11	.0	*	.1	.3	.1	.0	.5
12	.0	.0	.1	.1	.2	.0	.3
13-16	.0	*	.1	.3	.3	*	.8
17-19	.0	*	*	.1	.6	.0	.7
20-22	.0	.0	.0	*	.4	.0	.5
23-25	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	*	.1	.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	.0	.6	2.4	2.0	2.1	.2	7.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3
1-2	.0	.2	.1	.0	.0	.0	.3
3-4	.0	.1	.5	*	.0	.0	.6
5-6	.0	.1	.5	.3	.1	.0	1.0
7	.0	*	.1	.5	*	.0	.7
8-9	.0	*	.2	.3	.2	.0	.8
10-11	.0	.1	.2	.4	.1	.0	.8
12	.0	*	*	.6	.5	.0	1.1
13-16	.0	.0	.1	.5	.5	.0	1.2
17-19	.0	*	.1	.2	.4	.1	.9
20-22	.0	.0	*	*	.2	.1	.4
23-25	.0	.0	.0	.0	.5	*	.6
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
TOT PCT	.1	.8	1.9	3.0	2.8	.5	9.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.1	.0	.0	.0	.3
1-2	.0	.2	.3	.0	.0	.0	.5
3-4	.0	*	.7	.1	.0	.0	.8
5-6	.0	.0	.4	.2	.0	.0	.6
7	.0	*	.6	.1	*	.0	.8
8-9	.0	*	.2	.4	.1	.0	.7
10-11	.0	.0	.1	.6	.1	*	.9
12	.0	*	*	.3	.3	.0	.7
13-16	.0	.0	.1	.5	.5	.1	1.2
17-19	.0	.0	.0	.2	.3	.0	.5
20-22	.0	.0	.0	.1	.4	.0	.5
23-25	.0	.0	.0	.0	.2	.0	.2
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	.1	.5	2.4	2.6	1.9	.1	7.6

PERIOD: (OVER-ALL) 1963-1972 DECEMBER AREA 0002 OSV BRAVO

TABLE 18 (CONT) 56.5N 51.1W

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	.2	*	.0	.0	.0	.3
1-2	.0	.3	.3	.0	.0	.0	.6
3-4	.0	.3	.7	.1	.0	.0	1.0
5-6	.0	*	.5	.1	.0	.0	.7
7	.0	.1	.5	.9	.0	.0	1.5
8-9	.0	.1	.3	.5	*	.0	1.0
10-11	.0	*	.2	.5	.1	.0	.8
12	.0	.1	.1	.4	.2	.0	.9
13-16	.0	*	.1	.8	.3	*	1.3
17-19	.0	.0	*	.2	.4	*	.6
20-22	.0	.0	.0	.2	.1	.0	.2
23-25	.0	.0	.0	.0	.1	*	.2
26-32	.0	.0	.0	.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	.1	1.0	2.9	3.8	1.2	.1	9.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	*	.0	.0	.0	.5
1-2	.0	.3	.1	.0	.0	.0	.4
3-4	.0	.4	.3	.1	.0	.0	.7
5-6	.0	.1	.8	.7	.0	.0	1.6
7	.0	.2	.7	.7	.0	.0	1.6
8-9	.0	.1	.4	.7	.1	.0	1.3
10-11	.0	.1	.2	.4	.1	.0	.7
12	.0	*	.2	.8	.2	.0	1.3
13-16	.0	.0	.3	.9	.4	*	1.6
17-19	.0	.0	*	.4	.5	*	.9
20-22	.0	.0	.0	.1	.5	*	.6
23-25	.0	.0	.0	*	.1	*	.2
26-32	.0	.0	.0	.0	.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	.1	1.5	3.1	4.8	1.8	.2	11.5

W

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	.3	.0	.0	.0	.5
3-4	.0	.3	1.0	.1	.0	.0	1.4
5-6	.1	.3	1.0	.2	.0	.0	1.5
7	.0	.3	1.1	.8	.1	.0	2.3
8-9	*	.1	.9	1.1	.1	.0	2.2
10-11	.0	*	.8	1.1	*	*	2.0
12	.0	*	.4	1.1	.2	.0	1.8
13-16	.0	.0	.3	1.4	1.1	.0	2.8
17-19	.0	.0	.0	.5	.6	.0	1.1
20-22	.0	.0	.0	.3	.7	.2	1.2
23-25	.0	.0	.0	.3	*	*	.3
26-32	.0	.0	.0	*	.3	*	.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	.3	1.4	5.7	6.7	3.4	.3	17.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.3	.0	.0	.0	.0	.3	
1-2	*	.2	.1	.0	.0	.0	.3	
3-4	.0	.3	.8	.1	.0	.0	1.1	
5-6	*	.2	1.6	.2	.0	.0	2.0	
7	.0	.2	1.7	.6	.1	.0	2.4	
8-9	.0	.1	1.6	1.3	.1	.0	3.1	
10-11	.0	.2	1.1	1.8	.4	.0	3.5	
12	.0	.1	.5	1.7	.8	.0	3.1	
13-16	.0	.0	.6	2.9	1.3	*	4.9	
17-19	.0	.0	.0	1.3	.7	.2	2.2	
20-22	.0	.0	*	.2	.9	.3	1.5	
23-25	.0	.0	.0	.1	.7	*	.8	
26-32	.0	.0	.0	.1	*	.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	.1	1.4	8.1	10.3	5.0	.6	25.3	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	.8	1.8	.2	.0	.0	.0	2.8	
1-2	.8	1.6	1.8	.0	.0	.0	3.4	
3-4	.3	1.8	5.3	.7	.0	.0	8.1	
5-6	.2	.7	6.3	2.4	.1	.0	9.6	
7	*	.8	5.8	4.3	.4	.0	11.3	
8-9	.1	.5	4.5	5.8	.8	.0	11.6	
10-11	.0	.5	3.0	6.2	1.2	.1	10.9	
12	.0	.3	1.7	5.6	2.6	.0	10.2	
13-16	.0	.1	1.9	8.0	5.0	.3	15.2	
17-19	.0	.1	.2	3.0	3.7	.4	7.4	
20-22	.0	.0	.1	1.0	3.7	.7	5.5	
23-25	.0	.0	.0	.1	2.3	.3	2.7	
26-32	.0	.0	.0	.1	.6	.6	1.3	
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	1.4	8.1	30.7	37.2	20.3	2.4	100.0	2382

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	*	.4	2.2	1.7	2.1	1.1	.6	.4	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	473	6
6-7	.0	.1	1.4	3.2	6.6	6.9	5.9	2.6	2.4	.6	.2	.1	.1	.0	.0	.0	.0	.0	.0	1663	9
8-9	*	.0	.3	1.0	3.1	3.8	7.6	7.0	7.5	3.0	1.4	.7	.5	.0	.0	.0	.0	.0	.0	2012	12
10-11	.0	.0	.1	.1	.7	.7	1.7	2.3	4.2	3.1	2.2	.7	.6	.0	.0	.0	.0	.0	.0	911	15
12-13	.0	.0	.0	*	.1	.1	*	.1	.5	.7	.7	.8	.8	.0	.0	.0	.0	.0	.0	214	20
>13	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	.1	*	.6	.0	.0	.0	.0	.0	.0	42	28
INDET	.2	.2	.4	.8	1.1	.8	.4	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	255	7
TOTAL	11	40	240	382	762	749	899	714	830	416	255	126	146	0	0	0	0	0	0	5570	11
PCT	.2	.7	4.3	6.9	13.7	13.4	16.1	12.8	14.9	7.5	4.6	2.3	2.6	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1945-1972

AREA 0002 OSV BRAVO
56.5N 51.0W

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	9.4	2.8	2.2	*	18.3	.1	.4	32.2	5.7	*	2.6	.2	.1		.1	59.0
NE	18.9	2.4	4.2	*	12.5	.2	.1	46.7	4.1	*	6.0	.2	.1		.1	52.8
E	25.9	2.1	6.2	*	8.4	.1	.1	41.1	4.1	*	9.5	.3	.2		.3	44.6
SE	23.2	2.2	5.6	*	9.0	.1	*	38.8	3.7	*	10.9	.3	.1		.1	46.1
S	14.1	1.5	3.5	*	12.9	.1	.1	31.3	4.4	*	9.9	.3	.1		.1	53.9
SW	6.3	1.9	2.0	.0	19.5	.1	.2	29.4	4.8	*	5.5	.2	.1		.1	59.9
W	3.5	2.3	1.6	*	24.4	.1	.6	32.1	7.6	*	2.6	.2	.1		.1	57.4
NW	3.4	2.8	1.2	*	24.3	.2	.7	31.9	7.6	*	1.6	.1	.1		.1	58.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	4.7	.6	3.1	.0	7.6	.0	.0	15.7	3.5	.0	8.1	.8	.1		.0	71.8
TOT PCT	11.0	2.2	2.9	*	17.8	.1	.4	33.5	5.6	*	5.9	.2	.1		.1	54.5
TOT OBS: 68716																

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
00E03	11.7	2.3	3.3	*	18.2	.1	.4	34.9	5.3	*	5.4	.2	.1		.1	53.9
06E09	12.1	2.3	3.4	*	17.7	.1	.3	34.9	5.5	*	5.4	.2	.1		.1	53.9
12E15	10.3	2.1	2.5	*	17.4	.1	.5	32.1	6.3	*	6.5	.3	.2		.1	54.4
18E21	9.8	2.3	2.5	*	17.9	.2	.4	32.1	5.3	*	6.3	.3	.1		.1	55.8
TOT PCT	11.0	2.2	2.9	*	17.8	.1	.4	33.5	5.6	*	5.9	.2	.1		.1	54.5
TOT OBS: 68803																

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	2.3	4.5	3.4	1.2	.1		11.7	19.4	11.7	11.5	11.6	12.4	11.8	11.6	11.4	11.7
NE	.2	1.7	3.3	2.6	1.0	.1		8.9	19.9	9.0	8.4	8.7	9.1	9.5	8.8	8.7	9.0
E	.2	1.9	3.7	2.8	1.3	.2		10.1	20.8	10.0	10.2	9.9	10.0	10.2	10.1	10.2	10.2
SE	.2	2.0	4.0	2.5	.8	.1		9.5	19.6	9.8	9.7	9.0	9.6	9.4	9.8	9.0	9.3
S	.2	2.2	3.4	3.2	.7	.1		11.8	19.1	11.4	11.7	12.0	11.3	12.1	12.3	12.1	11.4
SW	.2	2.4	4.1	3.2	.8	.1		11.9	18.6	12.0	12.1	11.7	11.6	11.6	12.1	12.1	11.9
W	.2	2.7	5.3	5.2	1.6	.2		16.3	19.8	16.2	16.2	17.0	16.0	15.7	16.0	16.9	16.2
NW	.2	2.7	6.9	6.3	2.3	.2		18.7	20.9	18.7	18.8	18.8	18.8	18.5	18.1	18.7	19.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2							1.2	.0	1.1	1.4	1.3	1.2	1.2	1.0	1.0	1.1
TOT OBS							69046		19.8	8696	8660	8624	8612	8589	8627	8630	8648
TOT PCT	2.8	17.9	38.3	29.2	9.7	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	1.0	4.0	4.0	2.3	.4		11.7	19.4	11.6	12.0	11.7	11.5
NE	.8	2.9	2.9	1.8	.4		8.9	19.9	8.7	8.9	9.1	8.9
E	.9	3.3	3.2	2.2	.5		10.1	20.8	10.1	10.0	10.1	10.2
SE	.9	3.5	3.3	1.5	.3		9.5	19.6	9.8	9.3	9.6	9.2
S	1.0	4.4	4.5	1.6	.2		11.8	19.1	11.6	11.6	12.2	11.8
SW	1.0	4.4	4.3	1.9	.3		11.9	18.6	12.0	11.6	11.9	12.0
W	1.2	5.1	6.0	3.4	.6		16.3	19.8	16.2	16.5	15.9	16.5
NW	1.1	5.5	6.9	4.5	.8		18.7	20.9	18.8	18.8	18.3	18.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.2						1.2	.0	1.2	1.2	1.1	1.0
TOT OBS						69046		19.8	17316	17296	17216	17278
TOT PCT	9.0	33.2	45.1	19.2	3.4		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	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.2	1.7	18.7	39.3	28.2	9.7	1.2	19.6	100.0	17316
06&09	1.2	1.7	18.0	39.4	28.9	9.7	1.1	19.7	100.0	17236
12&15	1.1	1.7	17.4	39.1	29.7	9.8	1.2	19.9	100.0	17216
18&21	1.0	1.4	17.5	39.5	29.8	9.6	1.2	19.9	100.0	17278
TOT								19.8		69046
PCT	1.2	1.6	17.9	39.3	29.2	9.7	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	.5	.5	3.2	7.5		7.0
NE	.4	.3	1.6	6.6		7.3
E	.2	.2	1.4	8.3		7.5
SE	.3	.2	1.4	7.5		7.4
S	.8	.4	2.4	8.2		7.1
SW	1.1	.6	3.4	6.8		6.6
W	1.1	1.0	6.1	8.0		6.6
NW	.9	1.2	7.1	9.4		6.7
VAR	.0	.0	.0	.0		.0
CALM	.1	.1	.3	.7		6.4
TOT OBS					68998	7.0
TOT PCT	5.5	4.5	26.9	63.1	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	.4	*	.3	1.0	4.3	3.5	.2	*	.1	.1	1.9	
NE	.5	*	.4	1.1	3.2	1.8	.2	*	*	.1	1.4	
E	.9	.1	.8	1.5	3.4	1.8	.2	*	.1	.1	1.3	
SE	1.2	.1	.6	1.2	2.7	1.5	.2	.1	.1	.2	1.7	
S	1.3	*	.6	1.1	3.1	2.1	.2	.1	.2	.4	2.7	
SW	.6	*	.3	.7	3.8	2.7	.2	.1	.1	.3	3.1	
W	.4	*	.3	.8	6.3	4.7	.3	.1	.1	.1	3.3	
NW	.4	*	.2	.9	7.5	5.9	.3	*	*	*	3.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	.1	.1	.3	.2	*	*	*	*	.3	
TOT OBS												68958
TOT PCT	5.6	.2	3.5	8.4	34.7	24.2	1.9	.5	.7	1.3	19.0	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	1.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9
* OR >5000	1.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5
* OR >3500	2.5	4.2	4.3	4.3	4.3	4.3	4.3	4.3
* OR >2000	13.7	27.4	28.3	28.5	28.6	28.6	28.6	28.6
* OR >1000	23.4	57.0	61.6	62.6	63.1	63.2	63.2	63.2
* OR >600	24.3	61.9	68.8	70.6	71.4	71.6	71.6	71.6
* OR >300	24.4	63.2	71.3	73.6	74.8	75.1	75.2	75.2
* OR >150	24.4	63.2	71.3	73.8	74.9	75.3	75.4	75.4
* OR > 0	24.4	63.3	71.6	74.4	76.7	78.6	80.7	81.0

TOTAL NUMBER OF OBS: 69037 PCT FREQ NH <5/8: 19.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.5	2.7	5.5	4.3	3.0	6.0	13.0	11.0	45.5	5.6	69108

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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	.1	.2	.2	.3	.2	.2	.2	.2	.0	*	1.6	
<1/2	NO PCP	.1	.2	.4	.7	.8	.3	.2	.1	.0	.1	2.8	
	TOT %	.2	.3	.7	.9	1.0	.5	.4	.3	.0	.1	4.4	
	PCP	.2	.2	.3	.2	.2	.2	.2	.2	.0	*	1.6	
1/2<1	NO PCP	.1	.1	.1	.2	.2	.1	*	*	.0	*	.8	
	TOT %	.2	.2	.4	.4	.4	.2	.2	.3	.0	*	2.4	
	PCP	.2	.3	.4	.3	.3	.2	.3	.3	.0	*	2.2	
1<2	NO PCP	*	.1	.1	.1	.2	*	*	*	.0	*	.7	
	TOT %	.3	.3	.5	.5	.4	.2	.3	.3	.0	*	2.9	
	PCP	.7	.8	1.1	.9	.8	.8	1.0	1.0	.0	*	7.1	
2<5	NO PCP	.1	.2	.3	.3	.3	.2	.1	.1	.0	*	1.6	
	TOT %	.8	.9	1.4	1.2	1.1	.8	1.2	1.2	.0	*	8.7	
	PCP	2.3	1.7	1.9	1.5	1.7	2.0	3.3	3.8	.0	.1	18.3	
5<10	NO PCP	3.4	2.5	2.6	2.1	3.0	3.7	4.5	5.2	.0	.3	26.8	
	TOT %	5.6	4.2	4.5	3.7	4.8	5.1	7.7	9.0	.0	.3	45.1	
	PCP	.4	.2	.2	.2	.2	.3	.6	.7	.0	*	2.7	
10+	NO PCP	4.2	2.7	2.4	2.7	3.9	4.5	5.9	6.9	.0	.6	33.8	
	TOT %	4.5	2.8	2.6	2.8	4.1	4.8	6.5	7.6	.0	.6	36.5	
	TOT OBS												68742
	TOT PCT	11.7	8.9	10.1	9.5	11.8	11.9	16.3	18.7	.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	.1	.2	
<1/2	4-10	.1	.1	.2	.2	.2	.2	.1	.1	.0		1.2	
	11-21	.1	.1	.3	.5	.6	.2	.1	.1	.0		1.9	
	22+	.1	.1	.2	.2	.2	.1	.1	.1	.0		1.2	
	TOT %	.2	.3	.7	.9	1.0	.5	.4	.3	.0	.1	4.4	
	0-3	.0	*	*	*	*	*	*	*	.0	*	*	
1/2<1	4-10	*	*	.1	.1	*	*	*	*	.0		.4	
	11-21	*	.1	.1	.2	.2	.1	.1	.1	.0		.8	
	22+	.1	.1	.2	.2	.2	.1	.1	.2	.0		1.2	
	TOT %	.2	.2	.4	.4	.4	.2	.2	.3	.0	*	2.4	
	0-3	*	*	*	*	*	*	*	*	.0	*	*	
1<2	4-10	*	*	*	*	.1	*	*	*	.0		.3	
	11-21	.1	.1	.2	.2	.2	.1	.1	.1	.0		.8	
	22+	.2	.2	.3	.3	.2	.1	.2	.2	.0		1.7	
	TOT %	.3	.3	.5	.5	.4	.2	.3	.3	.0	*	2.9	
	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
2<5	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0		.8	
	11-21	.2	.2	.4	.4	.4	.3	.3	.3	.0		2.5	
	22+	.5	.6	.9	.6	.6	.5	.7	.8	.0		5.2	
	TOT %	.8	.9	1.4	1.2	1.1	.9	1.2	1.2	.0	*	8.7	
	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.3	.9	
5<10	4-10	.9	.7	.7	.6	.7	.8	.9	1.0	.0		6.4	
	11-21	2.1	1.5	1.6	1.5	2.1	2.1	2.8	2.9	.0		16.5	
	22+	2.6	2.0	2.1	1.5	1.9	2.2	3.9	5.0	.0		21.1	
	TOT %	5.6	4.2	4.5	3.7	4.8	5.1	7.7	9.0	.0	.3	45.0	
	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.6	1.4	
10+	4-10	1.1	.8	.8	.8	1.0	1.2	1.5	1.6	.0		8.8	
	11-21	2.1	1.3	1.1	1.3	2.1	2.4	3.0	3.6	.0		16.8	
	22+	1.2	.7	.6	.6	1.0	1.2	1.9	2.4	.0		9.6	
	TOT %	4.6	2.8	2.6	2.8	4.2	4.9	6.5	7.7	.0	.6	36.6	
	TOT OBS												69010
	TOT PCT	11.7	8.9	10.1	9.5	11.8	11.9	16.3	18.7	.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	5.8	.2	3.1	7.8	33.8	24.2	1.6	.7	.8	1.3	79.3	20.7	17326
06&09	5.5	.1	3.0	7.7	34.5	26.2	1.8	.5	.7	1.4	81.5	18.5	17247
12&15	5.5	.4	4.2	9.2	34.9	23.6	2.0	.5	.6	1.1	82.1	17.9	17221
18&21	5.7	.2	3.8	8.8	35.3	23.0	2.0	.5	.6	1.3	81.3	18.7	17285
TOT													69079
PCT	5.6	.2	3.5	8.4	34.6	24.3	1.9	.5	.6	1.3	81.0	19.0	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	4.7	2.2	2.6	8.6	46.4	35.5	17334
06&09	4.2	2.0	2.5	9.1	47.5	34.7	17256
12&15	4.1	3.0	3.2	8.4	43.5	37.8	17236
18&21	4.6	2.5	3.2	8.5	42.6	38.5	17295
TOT							69121
PCT	4.4	2.4	2.9	8.7	45.0	36.6	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	5.8	10.2	23.8	56.0	20.1	17312
06&09	5.5	9.6	23.7	58.3	18.0	17240
12&15	5.6	11.5	25.7	57.1	17.3	17213
18&21	5.7	11.1	25.3	56.5	18.2	17272
TOT						69037
PCT	5.7	10.6	24.6	57.0	18.4	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
55/59	.0	.0	.0	.0	.0	*	*	.0		*
50/54	*	.0	.0	*	.1	.3	1.7	1.7		3.7
45/49	*	.0	*	*	.4	2.4	5.5	10.0		18.4
40/44	*	*	*	.2	1.5	3.6	6.5	10.0		21.7
35/39	.0	.0	*	.7	2.8	6.0	7.6	9.3		26.4
30/34	.0	*	.1	.8	3.3	4.5	4.2	3.0		15.9
25/29	*	*	*	.5	1.9	2.9	1.8	1.3		8.4
20/24	.0	.0	.1	.2	.7	1.3	1.1	.4		3.8
15/19	.0	.0	*	.1	.2	.4	.5	.2		1.3
10/14	.0	.0	.0	*	.1	.1	.1	.1		.3
5/9	.0	.0	.0	*	.0	*	*	*		.1
0/4	.0	.0	.0	.0	.0	.0	.0	*		*
TOTAL									68443	100.0
PCT	*	*	.2	2.5	10.7	21.5	29.0	36.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	*	*	*	*	*	.0	.0	*
.1	.2	.4	.7	1.0	.7	.4	.2	.0	.1
1.5	1.4	1.9	2.7	3.4	2.4	2.5	2.4	.0	.3
2.2	2.1	3.1	2.8	2.8	2.3	2.8	3.3	.0	.3
3.7	3.3	3.7	2.4	2.7	2.6	3.3	4.4	.0	.2
2.9	1.4	.8	.7	1.2	1.8	2.7	4.3	.0	.1
1.1	.4	.2	.2	.5	1.2	2.2	2.5	.0	*
.2	.1	*	*	.2	.7	1.4	1.1	.0	*
*	*	*	*	.1	.3	.6	.3	.0	*
*	.0	.0	.0	*	.1	.2	*	.0	*
*	.0	.0	.0	*	*	*	*	.0	.0
.0	.0	.0	.0	.0	*	*	.0	.0	.0
11.7	8.9	10.1	9.5	11.8	11.9	16.3	18.7	.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	55	45	44	38	31	27	5	37.7	17340
06&09	54	45	44	38	31	27	6	37.6	17260
12&15	58	46	44	39	31	27	4	38.1	17237
18&21	56	46	44	38	31	28	6	38.3	17301
TOT	58	45	44	38	31	27	4	37.9	69138

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	*	2.8	10.6	21.0	28.3	37.2	84	17177
06&09	.0	2.6	10.4	20.9	27.8	38.3	84	17135
12&15	*	3.0	11.0	21.8	29.6	34.6	83	17071
18&21	*	2.5	1.0	22.2	30.4	34.0	83	17163
TOT	4	1890	7360	14688	19883	24721	83	68546

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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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	1	.0	*
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	.0	5	.0	*
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	.0	35	.0	.1
7/8	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.1	*	.1	*	*	145	*	.2
6	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.1	.1	.1	*	*	222	*	.3
5	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.2	.2	.2	*	.0	504	.1	.6
4	.0	.0	.0	.0	.0	.0	.0	.0	*	.2	.5	.3	.4	*	.0	1103	.2	1.4
3	.0	.0	.0	.0	.0	.0	.0	.0	*	.6	1.0	.8	.7	.1	.0	2251	.5	2.8
2	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.5	1.8	1.7	1.3	*	.0	4357	.9	5.4
1	.0	.0	.0	.0	0	.0	.0	.0	.2	3.0	2.6	2.7	1.5	*	.0	6814	1.3	8.6
0	.0	.0	.0	.0	.0	.0	.0	*	.5	3.7	2.4	3.2	1.1	*	.0	7436	1.1	9.7
-1	.0	.0	.0	.0	.0	.0	.0	*	1.1	3.9	2.1	2.8	.5	*	.0	7210	.7	9.8
-2	.0	.0	.0	.0	.0	.0	*	*	2.3	2.7	1.7	1.9	.2	.0	.0	6052	.4	8.4
-3	.0	.0	.0	.0	.0	.0	*	.1	3.2	2.1	1.5	1.1	.1	.0	.0	5878	.3	7.8
-4	.0	.0	.0	.0	.0	.0	*	.4	3.0	1.5	1.2	.4	*	.0	.0	4465	.2	6.3
-5	.0	.0	.0	.0	.0	.0	*	1.0	2.6	1.2	.7	.1	*	.0	.0	3947	.1	5.7
-6	.0	.0	.0	.0	.0	.0	.1	2.0	1.6	.9	.3	.1	.0	.0	.0	3352	*	4.8
-7/-8	.0	.0	.0	.0	.0	*	.6	4.0	1.7	.8	.1	*	.0	.0	.0	5005	*	7.3
-9/-10	.0	.0	.0	.0	.0	*	2.0	2.1	.5	.2	.1	.0	.0	.0	.0	3359	.0	4.9
-11/-13	.0	.0	.0	.0	*	.6	3.1	.5	.2	.1	*	.0	.0	.0	.0	3099	*	4.5
-14/-16	.0	.0	.0	.0	.2	1.9	.5	.1	*	*	.0	.0	.0	.0	.0	1853	*	2.7
-17/-19	.0	.0	.0	*	.9	.6	*	*	*	.0	.0	.0	.0	.0	.0	1098	.0	1.6
-20/-22	.0	.0	.0	.2	.4	*	*	.0	.0	.0	.0	.0	.0	.0	.0	437	.0	.7
-23/-25	.0	.0	.1	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	188	.0	.3
-26/-30	.0	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	110	.0	.2
<-30	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	*
TOTAL																68631		
PCT	*	*	.2	.5	1.6	3.2	6.3	10.3	17.1	22.4	16.2	15.7	6.2	.3	*	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	.1	.4	*	.0	.0	.0	.4
1-2	*	.5	.2	.0	.0	.0	.8
3-4	*	.5	1.1	.1	.0	.0	1.7
5-6	*	.2	1.0	.2	.0	.0	1.4
7	*	.2	.9	.5	*	.0	1.6
8-9	.0	.1	.6	.6	*	.0	1.3
10-11	.0	*	.4	.8	.1	*	1.3
12	.0	*	.2	.6	.1	.0	.8
13-16	.0	*	.1	.5	.2	*	.8
17-19	.0	*	*	.2	.3	*	.6
20-22	.0	.0	*	.1	.2	*	.3
23-25	.0	.0	.0	*	*	*	.1
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	.1	1.9	4.5	3.5	1.0	.1	11.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	*	.0	.0	.0	.4
1-2	*	.4	.3	.0	.0	.0	.8
3-4	*	.3	.9	.1	.0	.0	1.3
5-6	*	.1	.6	.2	*	.0	.9
7	*	.1	.6	.4	*	.0	1.2
8-9	*	*	.4	.4	*	.0	.9
10-11	.0	*	.3	.5	.1	.0	.9
12	*	*	.1	.5	.1	.0	.7
13-16	.0	*	.1	.5	.3	*	.9
17-19	.0	*	*	.2	.3	*	.5
20-22	.0	.0	*	.1	.2	*	.3
23-25	.0	.0	.0	*	.1	*	.1
26-32	.0	.0	.0	.0	*	*	.1
33-40	.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	.1	1.3	3.3	2.8	1.1	.1	8.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	*	.0	.0	.0	.5
1-2	*	.5	.3	.0	.0	.0	.8
3-4	*	.4	.8	.1	.0	.0	1.2
5-6	*	.2	.7	.2	*	.0	1.1
7	*	.1	.8	.4	*	.0	1.3
8-9	*	*	.4	.5	*	.0	1.0
10-11	.0	*	.3	.5	.1	.0	.9
12	*	*	.1	.3	.2	.0	.6
13-16	.0	*	.1	.6	.3	*	1.0
17-19	.0	*	*	.2	.4	*	.6
20-22	.0	.0	*	.1	.3	.1	.4
23-25	.0	.0	*	*	.1	.1	.2
26-32	.0	.0	.0	*	.1	.1	.2
33-40	.0	.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	.1	1.6	3.5	2.9	1.5	.2	9.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	*	.0	.0	.0	.5
1-2	*	.6	.4	.0	.0	.0	1.0
3-4	*	.4	1.1	.1	.0	.0	1.6
5-6	*	.1	.9	.2	*	.0	1.2
7	*	.1	.9	.5	*	.0	1.5
8-9	.0	*	.4	.5	*	.0	1.0
10-11	*	*	.2	.6	.1	*	.9
12	.0	*	.1	.3	.1	.0	.5
13-16	*	.0	*	.4	.3	*	.7
17-19	.0	*	*	.1	.2	*	.3
20-22	.0	.0	*	*	.2	*	.2
23-25	.0	.0	*	*	.1	*	.1
26-32	.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	.1	1.3	4.1	2.8	1.0	.1	9.7

PERIOD: (OVER-ALL) 1963-1972

ANNUAL

TABLE 18 (CONT)

AREA 0002 OSV BRAVO
56.5N 51.0W

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	.5	*	.0	.0	.0	.6	.1	.5	*	.0	.0	.0	.6
1-2	*	.6	.4	.0	.0	.0	1.1	*	.7	.3	.0	.0	.0	1.0
3-4	*	.6	1.4	.1	.0	.0	2.1	*	.6	1.2	.1	.0	.0	1.9
5-6	.0	.1	1.4	.3	*	.0	1.8	*	.2	1.3	.3	.0	.0	1.8
7	*	.1	1.2	.7	*	.0	2.0	*	.2	1.1	.5	*	.0	1.8
8-9	.0	.1	.6	.7	*	.0	1.4	*	.1	.6	.4	*	.0	1.2
10-11	*	*	.3	.7	.1	.0	1.1	*	*	.5	.6	*	.0	1.2
12	.0	*	.2	.5	.1	.0	.7	.0	*	.2	.5	.1	.0	.8
13-16	.0	*	.1	.5	.2	*	.8	.0	*	.1	.6	.2	*	.9
17-19	.0	*	*	.2	.2	*	.3	.0	.0	*	.1	.2	*	.4
20-22	.0	.0	*	*	.1	*	.2	.0	.0	*	*	.2	*	.2
23-25	.0	.0	.0	*	*	*	.1	.0	.0	.0	*	.1	*	.1
26-32	.0	.0	.0	.0	*	*	*	.0	.0	.0	*	*	*	.1
33-40	.0	.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	2.1	5.6	3.6	.8	.1	12.3	.2	2.3	5.4	3.2	.8	.1	11.9

	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	.1	.5	*	.0	.0	.0	.7	.1	.4	*	.0	.0	.0	.5	
1-2	*	.6	.2	.0	.0	.0	.9	*	.7	.3	.0	.0	.0	1.1	
3-4	*	.6	1.3	.1	.0	.0	2.0	*	.8	1.4	.1	.0	.0	2.3	
5-6	*	.3	1.4	.2	.0	.0	2.0	*	.3	1.6	.2	*	.0	2.2	
7	*	.2	1.4	.6	*	.0	2.2	*	.2	2.0	.7	*	.0	3.0	
8-9	*	.1	.8	.8	*	.0	1.7	.0	.1	.9	.9	*	.0	1.9	
10-11	*	*	.6	1.0	*	*	1.7	*	.1	.7	1.1	.1	*	2.0	
12	.0	*	.3	.8	.1	.0	1.3	.0	*	.3	1.2	.2	.0	1.8	
13-16	.0	.0	.2	1.0	.3	*	1.6	.0	.0	.2	1.5	.6	*	2.3	
17-19	.0	.0	*	.4	.3	*	.8	.0	.0	*	.5	.5	*	1.1	
20-22	.0	*	.0	.2	.3	*	.5	.0	*	*	.2	.4	*	.6	
23-25	.0	.0	.0	*	.2	.1	.3	.0	.0	.0	.1	.2	*	.3	
26-32	.0	.0	.0	*	.1	.1	.2	.0	.0	.0	*	.1	.1	.2	
33-40	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	2.5	6.2	5.1	1.5	.2	15.7	.1	2.8	7.5	6.5	2.1	.2	19.2	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	1.9	3.4	.1	.0	.0	.0	5.4	
1-2	.2	4.8	2.5	.0	.0	.0	7.5	
3-4	.2	4.3	9.1	.6	.0	.0	14.2	
5-6	.1	1.6	9.0	1.8	*	.0	12.4	
7	.1	1.2	9.0	4.2	.1	.0	14.6	
8-9	*	.5	4.7	4.8	.2	.0	10.3	
10-11	*	.2	3.3	5.7	.5	*	9.9	
12	*	.1	1.4	4.8	1.0	.0	7.3	
13-16	*	*	.9	5.6	2.4	.1	9.0	
17-19	.0	*	.1	2.0	2.4	.1	4.6	
20-22	.0	*	*	.6	1.8	.3	2.7	
23-25	.0	.0	*	.2	.8	.2	1.2	
26-32	.0	.0	.0	*	.4	.3	.8	
33-40	.0	.0	.0	*	.1	*	.1	
41-48	.0	.0	.0	.0	*	*	*	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								25746
TOT PCT	2.5	16.2	40.1	30.4	9.8	1.1	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	1.5	5.7	4.6	3.3	1.0	.5	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	11148	5
6-7	*	.4	3.1	5.4	8.7	6.5	5.2	2.7	1.9	.5	.2	.1	*	.0	.0	.0	.0	.0	.0	22819	8
8-9	*	.1	.6	1.2	3.7	4.0	5.6	4.7	5.1	2.2	1.1	.5	.3	*	.0	.0	.0	.0	.0	19213	11
10-11	.0	*	.1	.2	.7	.8	1.2	1.3	2.2	1.8	1.2	.7	.6	*	.0	.0	.0	.0	.0	7090	15
12-13	.0	.0	*	*	.1	.1	.1	.1	.3	.3	.4	.3	.4	*	*	.0	.0	.0	.0	1509	19
>13	.0	.0	.0	*	*	*	*	*	*	.1	.1	*	.2	*	.0	.0	.0	.0	.0	295	22
INDET	.4	.6	1.7	1.0	.9	.5	.3	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	3783	5
TOTAL																				65857	9
PCT	.5	2.6	11.3	12.5	17.4	12.9	13.0	9.1	9.7	5.0	3.0	1.6	1.5	*	*	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1952-1972
(OVER-ALL) 1945-1972

TABLE 20

AREA 0002 OSV BRAVO
56.5N 51.0W

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

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.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	1	*
53/54	.0	.0	.0	.0	.0	.0	.2	1.5	.5	.0	.0	.0	126	.2
51/52	.0	.0	.0	.0	.0	.0	.5	6.2	6.4	1.0	.0	.0	800	1.2
49/50	.0	.0	.0	.0	.0	.1	4.3	37.1	16.7	1.1	.0	.0	3352	4.9
47/48	.0	.0	.0	*	.0	.7	23.0	42.5	41.7	9.3	1.6	.1	6792	9.8
45/46	.0	.0	.1	.1	1.5	5.6	40.8	10.2	26.7	26.1	5.9	1.7	6921	10.0
43/44	.4	*	.2	.1	2.2	27.8	23.6	2.3	5.8	33.7	9.3	1.6	6252	9.1
41/42	2.7	.3	1.6	2.4	11.5	37.0	7.1	.2	1.1	20.7	40.7	6.6	7610	11.0
39/40	25.0	13.2	7.3	18.0	48.4	23.4	.6	*	.9	7.8	31.7	53.9	13281	19.2
37/38	50.2	58.6	62.8	65.9	34.5	4.9	.0	.0	.1	.2	10.3	29.9	18179	26.3
35/36	18.6	22.9	25.2	11.8	1.8	.3	.0	.0	.0	.1	.5	5.5	4921	7.1
33/34	2.3	4.7	2.7	1.5	*	.1	.0	.0	.0	.0	.1	.5	673	1.0
31/32	.6	.2	.1	.2	.0	.2	.0	.0	.0	.0	.1	.1	84	.1
29/30	*	.0	*	*	.0	*	.0	.0	.0	.0	.0	.1	13	*
27/28	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	2	*
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	5927	5225	5795	5863	5868	5668	5944	5627	5609	6032	5667	5782	69007	100.0
MEAN	37.7	37.2	37.1	37.7	39.1	41.6	45.4	48.2	47.1	43.8	41.0	39.0	41.2	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1003	1003	1002	1002	1003	1003	1002	1003	1003	5869
FEB	1005	1005	1004	1004	1005	1005	1004	1005	1005	5294
MAR	1007	1006	1006	1006	1007	1006	1006	1007	1006	5784
APR	1010	1010	1009	1009	1010	1010	1010	1010	1010	5876
MAY	1013	1012	1012	1012	1012	1012	1012	1012	1012	5878
JUN	1011	1011	1010	1010	1010	1011	1010	1011	1011	5677
JUL	1011	1011	1010	1011	1011	1011	1011	1011	1011	5946
AUG	1010	1010	1009	1009	1010	1010	1010	1010	1010	5633
SEP	1009	1008	1008	1008	1008	1008	1008	1008	1008	5620
OCT	1007	1006	1006	1006	1007	1006	1006	1007	1006	6039
NOV	1008	1008	1008	1008	1008	1008	1007	1008	1008	5678
DEC	1003	1003	1003	1003	1003	1003	1003	1003	1003	5791
ANN	1008	1008	1007	1007	1008	1008	1007	1008	1008	69085
OBS	8655	8671	8627	8617	8590	8636	8628	8661		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	951	967	978	993	1003	1012	1025	1033	1053
FEB	951	968	981	995	1005	1014	1027	1034	1039
MAR	956	975	984	998	1008	1015	1025	1031	1037
APR	959	979	989	1004	1011	1017	1026	1032	1045
MAY	974	987	996	1006	1012	1019	1027	1031	1036
JUN	989	989	996	1005	1011	1016	1022	1026	1033
JUL	981	992	997	1006	1011	1016	1022	1027	1031
AUG	981	987	995	1005	1010	1015	1021	1024	1030
SEP	965	984	992	1002	1009	1015	1022	1026	1031
OCT	957	975	986	1000	1007	1014	1023	1030	1041
NOV	945	968	983	999	1009	1017	1028	1033	1040
DEC	935	963	978	995	1004	1012	1023	1030	1042

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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	2.6	1.0	.6	.0	28.4	.0	.0	31.0	5.2	.0	7.7	1.3	.0	1.3		53.5
NE	8.1	.3	2.6	3.9	25.9	2.6	.0	35.6	1.3	.0	11.3	.0	.0	.0		51.8
E	7.6	.0	.0	.0	31.0	2.8	.0	33.8	.0	.0	17.2	.0	.0	.0		49.0
SE	5.5	4.9	.0	.0	16.0	.0	.0	26.4	8.0	.0	19.6	.0	.0	.0		46.0
S	10.9	2.5	.0	1.7	10.5	.0	.0	23.9	1.3	.0	17.2	1.3	.0	.0		56.3
SW	3.9	1.3	.9	.0	10.3	.2	.0	15.8	2.8	.0	5.7	.2	.0	.0		75.5
W	1.1	.0	.0	.0	24.2	.5	.0	25.2	1.7	.0	2.0	.0	.3	.0		70.8
NW	1.8	2.7	1.3	.0	24.2	.9	.0	30.0	2.7	.0	2.7	.0	1.3	.0		63.3
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	16.7	.0	.0	.0		83.3
TOT PCT	4.1	1.3	.7	.6	20.8	.7	.0	26.2	2.6	.0	7.8	.3	.3	.1		62.7
TOT OBS:	691															

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	1.9	1.3	.0	.6	19.9	1.3	.0	25.0	2.6	.0	5.1	.0	.0	.0		67.3
06&09	5.0	3.6	1.4	1.4	25.7	.7	.0	34.3	2.9	.0	7.1	.0	.7	.0		55.0
12&15	4.5	.5	1.0	.5	17.8	1.0	.0	22.8	2.5	.0	9.4	.5	.0	.0		64.9
18&21	4.6	.5	.5	.0	21.0	.0	.0	24.6	2.6	.0	9.7	.5	.5	.5		61.5
TOT PCT	4.0	1.3	.7	.6	20.8	.7	.0	26.1	2.6	.0	8.1	.3	.3	.1		62.5
TOT OBS:	693															

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	1.4	4.2	4.6	1.3	.1		11.8	21.9	13.5	12.5	10.4	19.8	10.3	13.0	10.9	11.5
NE	.1	2.7	4.4	3.0	.6	.0		10.9	18.0	9.6	9.8	9.1	2.6	10.1	8.3	15.1	16.9
E	.2	1.4	2.3	1.2	.1	.0		5.2	16.3	6.4	6.3	6.3	5.2	5.4	4.6	4.0	2.0
SE	.1	1.0	2.4	1.6	.5	.1		5.8	19.5	7.0	7.1	5.7	8.6	4.3	6.5	4.3	11.5
S	.4	2.4	3.4	1.7	.3	.0		8.3	15.7	5.8	3.6	9.1	7.8	10.8	7.4	9.0	6.8
SW	.6	4.3	7.3	3.3	.7	.1		16.2	16.4	16.2	17.9	13.7	11.2	20.7	14.8	14.6	15.5
W	.4	3.4	8.7	8.9	1.7	.1		23.3	20.6	25.6	24.1	23.3	17.2	21.8	23.1	23.1	25.7
NW	.0	2.9	6.3	6.3	1.4	.0		16.9	20.3	14.5	18.8	18.9	27.6	14.7	22.2	17.1	10.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0	1.5	.0	3.5	.0	1.9	.0	1.9	.0
TOT OBS	26	140	279	219	48	3	715		18.7	133	28	115	29	158	54	161	37
TOT PCT	3.6	19.6	39.0	30.6	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	.7	2.8	5.5	2.0	.9		11.8	21.9	13.4	12.3	11.0	11.0
NE	1.0	4.4	2.8	2.6	*		10.9	18.0	9.6	7.8	9.7	15.4
E	.7	1.6	2.3	.6	.0		5.2	16.3	6.4	6.1	5.2	3.7
SE	.7	1.7	2.5	.6	.3		5.8	19.5	7.0	6.3	4.8	5.7
S	1.4	3.3	2.8	.7	.1		8.3	15.7	5.4	8.9	9.9	8.6
SW	2.2	6.7	5.2	1.7	.3		16.2	16.4	16.5	13.2	19.2	14.8
W	1.5	6.3	10.3	5.0	.2		23.3	20.6	25.3	22.0	22.2	23.6
NW	1.0	5.7	6.4	3.3	.4		16.9	20.3	15.2	20.7	16.6	15.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	1.2	2.8	1.4	1.5
TOT OBS	78	233	270	118	16	715		18.7	161	144	212	198
TOT PCT	10.9	32.6	37.8	16.5	2.2		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	1.2	3.1	23.0	32.9	32.3	7.5	.0	18.4	100.0	161
06&09	2.8	1.4	22.9	36.1	29.2	6.3	1.4	18.6	100.0	144
12&15	1.4	1.9	19.3	41.5	29.2	6.1	.5	18.7	100.0	212
18&21	1.5	1.5	14.6	43.4	31.8	7.1	.0	19.0	100.0	198
TOT	12	14	140	279	219	48	3	18.7		715
PCT	1.7	2.0	19.6	39.0	30.6	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	.3	.4	1.4	9.3		7.4
NE	.6	.4	1.9	7.8		7.1
E	.5	.3	.4	4.4		7.1
SE	.5	.2	.5	5.0		7.2
S	.8	.3	1.7	5.6		6.7
SW	3.6	1.2	4.2	6.9		5.5
W	5.8	2.4	7.2	8.2		5.2
NW	2.1	.9	4.4	9.1		6.4
VAR	.0	.0	.0	.0		.0
CALM	.9	.2	.2	.6		3.7
TOT OBS	95	39	139	359	632	6.2
TOT PCT	15.0	6.2	22.0	56.8	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	1.6	.1	.4	.8	4.2	1.9	.6	.1	.6	.0	1.2	
NE	1.5	.4	1.0	1.7	1.7	1.5	.3	.0	.2	.2	2.3	
E	2.0	.0	.0	.2	.4	.7	.4	.0	.5	.2	1.2	
SE	2.0	.0	.2	.5	1.3	.9	*	.0	.4	.0	.8	
S	1.0	.0	.3	1.5	1.2	1.3	.1	.3	.6	.2	1.9	
SW	.5	.2	.5	1.3	1.8	2.3	.6	.4	1.0	.4	6.9	
W	.6	.0	.3	1.4	4.4	4.9	.7	.1	1.0	.0	10.4	
NW	1.0	.0	.1	1.6	4.7	3.4	.3	.1	.3	.0	4.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.0	.2	.0	.0	.0	.5	.0	1.1	
TOT OBS	65	4	17	57	125	107	19	6	32	6	194	632
TOT PCT	10.3	.6	2.7	9.0	19.8	16.9	3.0	.9	5.1	.9	30.7	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	4.5	5.8	6.1	6.1	6.1	6.1	6.1	6.1
* OR >5000	5.2	6.6	7.1	7.1	7.1	7.1	7.1	7.1
* OR >3500	7.2	9.2	10.1	10.1	10.1	10.1	10.1	10.1
* OR >2000	14.8	23.0	26.6	26.6	26.7	26.7	26.7	26.7
* OR >1000	20.5	37.8	44.8	45.6	46.1	46.2	46.2	46.2
* OR >600	22.4	42.7	51.5	53.1	54.8	55.4	55.6	55.6
* OR >300	22.7	43.3	53.1	55.1	57.3	58.1	58.3	58.3
* OR >150	22.7	43.6	53.6	55.6	57.8	58.8	58.9	58.9
* OR > 0	23.0	44.1	55.1	58.0	62.6	65.7	68.9	69.1
TOTAL	143	274	342	360	389	408	428	429

TOTAL NUMBER OF OBS: 621 PCT FREQ NH <5/8: 30.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
8.2	7.4	5.6	5.4	3.7	4.5	8.5	8.3	38.8	9.6	647

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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	.6	.6	.3	.5	.1	.5	.1	.3	.0	.0	3.1	
<1/2	NO PCP	.3	.5	.7	.8	.6	.2	.1	.3	.0	.1	3.5	
	TOT %	.9	1.1	1.0	1.3	.7	.7	.2	.6	.0	.1	6.6	
	PCP	.5	1.0	.7	.1	.4	.1	.4	.3	.0	.0	3.5	
1/2<1	NO PCP	.1	.0	.0	.0	.3	.2	.3	.0	.0	.0	.9	
	TOT %	.7	1.0	.7	.1	.6	.4	.7	.3	.0	.0	4.4	
	PCP	.3	.4	.1	.3	.1	.1	.1	.4	.0	.0	1.9	
1<2	NO PCP	.1	.1	.1	.2	.1	.1	.0	.0	.0	.0	.9	
	TOT %	.5	.5	.3	.5	.3	.3	.1	.4	.0	.0	2.8	
	PCP	1.0	.9	.6	.2	.9	.2	1.8	1.3	.0	.0	6.9	
2<5	NO PCP	1.1	.8	.1	.5	.4	.4	.5	.6	.0	.1	4.4	
	TOT %	2.1	1.7	.6	.7	1.3	.6	2.3	1.9	.0	.1	11.3	
	PCP	.6	.8	.0	.4	.4	.9	2.8	2.1	.0	.0	8.1	
5<10	NO PCP	2.2	2.6	1.0	1.2	1.6	2.4	4.0	3.1	.0	.0	18.2	
	TOT %	2.8	3.4	1.0	1.7	2.0	3.3	6.9	5.2	.0	.0	26.3	
	PCP	.3	*	.1	.1	.1	.7	.7	.4	.0	.0	2.5	
10+	NO PCP	3.8	3.1	1.3	1.7	3.6	10.8	12.8	7.6	.0	1.5	46.1	
	TOT %	4.1	3.2	1.4	1.7	3.7	11.5	13.5	8.0	.0	1.5	48.6	
	TOT OBS												681
	TOT PCT	11.0	10.8	5.1	5.9	8.6	16.8	23.6	16.3	.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
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
<1/2	4-10	.1	.3	.4	.2	.3	.1	.1	.6	.0		2.2	
	11-21	.1	.4	.6	.4	.4	.3	.1	.1	.0		2.3	
	22+	.6	.4	.1	.7	.0	.3	.1	.0	.0		2.3	
	TOT %	.9	1.0	1.1	1.3	.7	.7	.3	.7	.0	.1	6.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.1	.1	.0	.0	.0	.0	.0	.0		.3	
	11-21	.3	.4	.4	.0	.1	.3	.3	*	.0		1.9	
	22+	.4	.4	.1	.1	.5	*	.4	.3	.0		2.2	
	TOT %	.6	1.0	.7	.1	.6	.4	.6	.3	.0	.0	4.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1	
	11-21	.0	.2	.3	.1	.0	.1	.0	.1	.0		.9	
	22+	.5	.3	.0	.3	.3	.0	.1	.3	.0		1.7	
	TOT %	.5	.5	.3	.5	.3	.3	.1	.4	.0	.0	2.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
2<5	4-10	.0	.3	.1	.1	.1	*	.1	.0	.0		.7	
	11-21	1.0	.9	.1	.4	.6	.2	.9	.7	.0		4.7	
	22+	1.1	.5	.4	.2	.6	.4	1.4	1.2	.0		5.7	
	TOT %	2.0	1.7	.6	.7	1.3	.6	2.4	1.9	.0	.1	11.4	
	0-3	.0	.0	.1	*	.1	.1	.1	.0	.0	.0	.4	
5<10	4-10	.3	.8	.1	.1	.6	.4	.2	.6	.0		3.2	
	11-21	1.0	1.1	.3	.7	.9	1.8	2.1	1.7	.0		9.6	
	22+	1.4	1.4	.4	.7	.4	1.0	4.5	3.1	.0		12.9	
	TOT %	2.8	3.3	1.0	1.6	2.0	3.3	6.9	5.4	.0	.0	26.1	
	0-3	.1	.1	.1	*	.3	.5	.3	.0	.0	1.4	3.0	
10+	4-10	.8	1.3	.5	.5	1.4	3.7	3.0	1.6	.0		12.8	
	11-21	1.9	1.0	.5	.8	1.5	4.8	5.7	3.8	.0		20.1	
	22+	1.3	.7	.3	.3	.4	2.4	4.5	2.8	.0		12.6	
	TOT %	4.2	3.2	1.4	1.7	3.6	11.4	13.5	8.2	.0	1.4	48.6	
	TOT OBS												696
	TOT PCT	11.0	10.7	5.1	5.8	8.4	16.6	23.9	16.8	.0	1.7	100.0	

JANUARY

PERIOD: (PRIMARY) 1954-1971
(OVER-ALL) 1898-1971

AREA 0003 NE NEWFOUNDLAND COAST
48.9N 52.8W

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	8.6	.0	.0	6.5	19.4	16.5	1.4	.7	7.2	.7	61.2	38.8	139
06&09	16.5	.0	1.5	9.0	16.5	13.5	2.3	1.5	8.3	.0	69.2	30.8	133
12&15	9.7	1.6	4.9	12.4	17.8	15.1	4.9	1.1	2.2	1.1	70.8	29.2	185
18&21	7.3	.6	3.4	7.9	24.2	21.3	2.8	.6	3.9	1.7	73.6	26.4	178
TOT	65	4	17	58	125	107	19	6	32	6	439	196	635
PCT	10.2	.6	2.7	9.1	19.7	16.9	3.0	.9	5.0	.9	69.1	30.9	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	4.6	5.2	2.6	10.5	26.8	50.3	153
06&09	9.3	3.6	3.6	13.6	22.1	47.9	140
12&15	9.5	4.7	1.4	10.4	27.0	46.9	211
18&21	5.1	3.6	3.6	11.8	27.2	48.7	195
TOT	50	30	19	80	182	338	699
PCT	7.2	4.3	2.7	11.4	26.0	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	9.0	12.0	27.1	34.6	38.3	133
06&09	16.9	20.0	37.7	33.1	29.2	130
12&15	9.3	19.1	31.7	38.8	29.5	183
18&21	6.9	13.7	32.0	42.9	25.1	175
TOT	63	101	199	235	187	621
PCT	10.1	16.3	32.0	37.8	30.1	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
45/49	.0	.0	.0	.0	.0	.2	.2	.0	2	.4
40/44	.0	.0	.0	.0	.2	.0	.4	1.1	9	1.6
35/39	.0	.0	.0	.0	.2	2.0	3.4	5.8	63	11.4
30/34	.0	.0	.0	.0	.5	2.7	9.2	14.3	148	26.8
25/29	.0	.0	.2	.2	3.1	7.1	6.3	6.3	128	23.2
20/24	.0	.0	.0	.2	2.5	5.6	6.9	2.9	100	18.1
15/19	.0	.0	.0	.2	.9	3.3	3.6	1.3	51	9.2
10/14	.2	.4	.7	.2	1.6	.9	1.6	.9	36	6.5
5/9	.0	.0	.0	.2	.2	1.1	.0	.2	9	1.6
0/4	.0	.0	.2	.0	.2	.4	.2	.2	6	1.1
TOTAL	1	2	6	5	52	128	176	182	552	100.0
PCT	.2	.4	1.1	.9	9.4	23.2	31.9	33.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.1	.1	.0	.0	.0	.2	.0	.0	.0	.0
	.0	.0	.0	.3	.8	.3	.1	.2	.0	.0
	1.9	2.4	1.3	.8	2.2	2.0	.6	.0	.0	.2
	4.3	5.7	2.2	2.5	2.7	3.6	2.6	3.0	.0	.2
	2.4	1.6	1.0	1.0	.6	4.1	7.5	4.8	.0	.2
	1.7	1.1	.5	.1	.8	2.2	5.1	6.1	.0	.5
	.6	.2	.5	.2	.5	1.7	3.1	2.0	.0	.4
	.4	.2	.0	.0	.0	1.3	3.8	.7	.0	.2
	.0	.0	.0	.0	.0	.6	.6	.2	.0	.2
	.0	.0	.0	.0	.4	.2	.4	.0	.0	.2
	11.4	11.3	5.5	4.8	7.9	16.2	23.8	17.0	.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	45	40	36	28	11	4	3	26.7	162
06&09	41	40	37	27	12	5	3	26.2	143
12&15	47	41	36	28	13	1	0	26.5	210
18&21	43	40	37	28	15	11	11	27.9	197
TOT	47	41	37	28	13	5	0	26.9	712

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	1.5	9.7	27.6	34.3	26.9	83	134
06&09	.0	1.7	6.0	19.7	37.6	35.0	85	117
12&15	.0	3.2	4.5	22.6	29.7	40.0	85	155
18&21	.7	2.7	16.9	22.3	27.0	30.4	81	148
TOT	1	13	52	128	176	184	84	554

JANUARY

PERIOD: (PRIMARY) 1954-1971
(OVER-ALL) 1898-1971

AREA 0003 NE NEWFOUNDLAND COAST
48.9N 52.8W

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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.2	.9	.0	6	.2	.9
6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.4	5	.3	.4
5	.0	.0	.0	.0	.0	.0	.0	.2	1.8	.7	.0	15	.5	2.2
4	.0	.0	.0	.0	.0	.0	.0	.0	3.4	.2	.0	20	.5	3.1
3	.0	.0	.0	.0	.0	.0	.0	.2	3.6	.4	.0	23	1.6	2.5
2	.0	.0	.0	.0	.0	.0	.0	.7	3.4	.7	.0	27	1.1	3.8
1	.0	.0	.0	.0	.0	.0	.0	1.4	4.7	.2	.0	35	.9	5.4
0	.0	.0	.0	.0	.0	.0	.2	5.1	2.0	.0	.0	40	1.6	5.6
-1	.0	.0	.0	.0	.0	.0	.5	2.9	2.3	.0	.0	32	1.1	4.7
-2	.0	.0	.0	.0	.0	.0	.9	3.4	.5	.0	.0	27	.4	4.5
-3	.0	.0	.0	.0	.0	.0	2.2	2.3	.0	.0	.0	25	.2	4.3
-4	.0	.0	.0	.0	.0	.2	3.8	1.8	.0	.0	.0	32	.0	5.8
-5	.0	.0	.0	.0	.0	.4	2.7	.9	.0	.0	.0	22	.0	4.0
-6	.0	.0	.0	.0	.0	1.1	3.1	1.1	.0	.0	.0	29	.0	5.2
-7/-8	.0	.0	.0	.0	.2	4.7	4.5	.5	.0	.0	.0	55	.0	9.9
-9/-10	.0	.0	.0	.0	1.8	3.6	2.2	.0	.0	.0	.0	42	.2	7.4
-11/-13	.0	.0	.0	.0	4.7	4.2	.4	.0	.0	.0	.0	51	.0	9.2
-14/-16	.0	.0	.0	2.5	1.8	.0	.0	.0	.0	.0	.0	24	.0	4.3
-17/-19	.0	.0	1.1	1.6	.7	.0	.0	.0	.0	.0	.0	19	.0	3.4
-20/-22	.0	.0	.9	.9	.0	.0	.0	.0	.0	.0	.0	10	.0	1.8
-23/-25	.0	.5	.5	.2	.0	.0	.0	.0	.0	.0	.0	7	.0	1.3
-26/-30	.5	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	1.3
TOTAL	3	6	15	29	51	78	113	114	123	19	3	554	49	505
PCT	.5	1.1	2.7	5.2	9.2	14.1	20.4	20.6	22.2	3.4	.5	100.0	8.8	91.2

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	.8	.5	.0	.0	.0	1.3
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.0	.5	.0	.0	1.4
5-6	.0	.0	1.0	.5	.0	.0	1.4
7	.0	.0	.4	1.8	.0	.0	2.2
8-9	.0	.4	.4	.4	.0	.0	1.1
10-11	.0	.0	.4	1.0	.0	.0	1.3
12	.0	.0	.0	.5	.4	.0	.8
13-16	.0	.0	.0	1.7	.5	.0	2.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.5	.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	1.2	3.5	6.2	1.3	.0	12.2

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	.0	.0	.0	.0	.0	.0
3-4	.0	.5	.7	.0	.0	.0	1.2
5-6	.0	.0	1.0	1.9	.5	.0	3.3
7	.0	.1	.2	1.1	.0	.0	1.4
8-9	.0	.1	1.4	1.0	.0	.0	2.5
10-11	.0	.0	.1	.6	.1	.0	.8
12	.0	.0	.0	.5	.1	.0	.6
13-16	.0	.0	.0	.0	1.0	.0	1.0
17-19	.0	.0	.0	.5	.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	.5	.7	3.5	5.5	1.7	.0	11.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.0	.0	.0	.0	.7
1-2	.0	.0	1.0	.0	.0	.0	1.0
3-4	.0	.0	1.2	.5	.0	.0	1.7
5-6	.0	.0	.5	1.0	.0	.0	1.4
7	.0	.4	1.2	.5	.0	.0	2.0
8-9	.0	.0	1.0	.0	.0	.0	1.0
10-11	.0	.0	.0	.7	.4	.0	1.1
12	.0	.0	.0	1.4	.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	.4	.7	4.8	4.1	.4	.0	10.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2
1-2	.0	.0	1.4	.0	.0	.0	1.4
3-4	.0	.0	.0	.6	.0	.0	.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.1	.5	.0	.6
10-11	.0	.0	.0	1.6	.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	.1	2.5	2.3	.5	.0	5.5

PERIOD: (OVER-ALL) 1963-1971 JANUARY AREA 0003 NE NEWFOUNDLAND COAST

TABLE 18 (CONT) 48.9N 52.8W

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	.0	.0	.0	.0	.0
3-4	.0	.0	.4	.8	.0	.0	1.2
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.5	1.3	.0	.5	.0	2.3
8-9	.0	.0	.5	.8	.0	.0	1.3
10-11	.0	.0	.4	1.2	.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	.5	2.9	2.9	.5	.0	6.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.4	.0	.0	.0	.0	1.9
1-2	.0	1.0	.1	.0	.0	.0	1.1
3-4	.0	.5	1.6	.1	.0	.0	2.2
5-6	.0	.0	3.7	.0	.0	.0	3.7
7	.0	.0	.6	.6	.0	.0	1.2
8-9	.0	.0	.5	1.1	.1	.0	1.7
10-11	.0	.0	.1	.8	1.0	.0	1.9
12	.0	.0	.5	.0	.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	.1	.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	.5	2.9	7.1	2.6	1.2	.0	14.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	1.0	.0	.0	.0	1.0
1-2	.0	.5	.4	.0	.0	.0	.8
3-4	.0	.0	1.4	.4	.0	.0	1.8
5-6	.0	.0	1.6	1.0	.0	.0	2.5
7	.0	.0	1.8	3.0	.4	.0	5.1
8-9	.0	.0	1.0	2.0	.8	.0	3.8
10-11	.0	.0	.0	.8	.5	.0	1.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.8	.0	.8
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.8	.0	.8
23-25	.0	.0	.0	.0	.8	.0	.8
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	7.1	7.2	4.2	.0	18.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.1	.5	.0	.0	.0	.6	
1-2	.0	1.4	.5	.0	.0	.0	1.9	
3-4	.0	.0	1.4	.0	.0	.0	1.4	
5-6	.0	.0	2.5	1.0	.0	.0	3.5	
7	.0	1.0	.6	1.2	.6	.0	3.3	
8-9	.0	.0	.1	1.8	.5	.0	2.4	
10-11	.0	.0	.5	1.0	.5	.0	1.9	
12	.0	.0	.0	1.0	.0	.0	1.0	
13-16	.0	.0	.0	2.2	1.1	.0	3.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.6	.0	.6	
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	.0	2.5	6.1	6.0	3.7	.0	20.3	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	1.4	2.9	1.9	.0	.0	.0	6.2	
1-2	.0	2.9	3.3	.0	.0	.0	6.2	
3-4	.0	1.0	7.7	2.9	.0	.0	11.5	
5-6	.0	.0	10.5	5.3	.5	.0	16.3	
7	.0	1.9	7.2	8.1	1.4	.0	18.7	
8-9	.0	.5	4.8	7.2	1.9	.0	14.4	
10-11	.0	.0	1.4	7.7	2.4	.0	11.5	
12	.0	.0	.5	3.3	.5	.0	4.3	
13-16	.0	.0	.0	3.8	3.3	.0	7.2	
17-19	.0	.0	.0	.5	.0	.0	.5	
20-22	.0	.0	.0	.0	1.4	.0	1.4	
23-25	.0	.0	.0	.0	1.4	.0	1.4	
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	
								209
TOT PCT	1.4	9.1	37.3	38.8	13.4	.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	.3	1.3	3.8	4.3	6.3	.8	1.5	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	6
6-7	.0	.5	1.5	2.5	8.3	7.6	7.1	2.0	4.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	136	9
8-9	.0	.0	.0	2.0	4.0	3.0	4.5	3.3	3.0	1.3	.5	.0	.8	.0	.0	.0	.0	.0	.0	89	11
10-11	.0	.0	.0	.3	2.3	1.5	.8	.8	1.5	.3	1.0	.8	.0	.0	.0	.0	.0	.0	.0	36	12
12-13	.0	.0	.0	.0	.5	.8	.8	.3	.8	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	14	12
>13	.0	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
INDET	1.0	.0	1.3	1.0	1.5	1.3	2.0	1.5	.5	.8	.0	.0	.0	.5	.0	.0	.0	.0	.0	43	8
TOTAL	5	7	26	40	93	61	66	31	42	13	6	3	4	0	0	0	0	0	0	397	9
PCT	1.3	1.8	6.5	10.1	23.4	15.4	16.6	7.8	10.6	3.3	1.5	.8	1.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1963-1971
(OVER-ALL) 1880-1971

AREA 0003 NE NEWFOUNDLAND COAST
48.9N 53.2W

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	.5	.0	.0	41.2	2.1	.0	46.1	1.0	.0	6.2	.0	.0	.0		46.6
NE	15.6	1.8	11.0	3.7	14.7	.0	.0	45.0	7.3	.0	.0	.0	.9	.0		46.8
E	13.7	.0	3.2	.0	44.2	4.2	.0	65.3	.0	.0	8.4	.0	3.2	.0		23.2
SE	5.9	7.3	1.8	2.9	9.2	.4	.0	27.5	1.8	.0	31.1	.0	.0	.0		39.6
S	4.4	.0	2.0	.0	10.3	1.5	.0	17.2	3.4	.0	13.2	.0	.0	.0		66.2
SW	5.2	1.2	1.2	1.2	13.7	2.3	.0	20.7	3.5	.0	2.3	.0	.3	.3		72.9
W	.0	.0	.0	.0	17.4	.0	.0	17.4	2.2	.0	.7	.0	.6	2.8		76.3
NW	1.7	.0	1.1	.0	32.1	3.3	.0	37.7	3.3	.0	3.3	.0	.0	.0		55.7
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	4.0	1.2	1.4	.7	22.3	1.5	.0	30.1	2.6	.0	7.2	.0	.3	.7		59.1
TOT OBS:	582															

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	4.1	1.4	.7	.7	29.7	.7	.0	35.9	2.1	.0	6.2	.0	.7	.0		55.2
06&09	1.7	.8	1.7	.8	19.3	.8	.0	24.4	2.5	.0	5.0	.0	.0	.0		68.1
12&15	4.7	1.2	.6	1.2	16.5	1.8	.0	24.7	3.5	.0	9.4	.0	.6	1.8		60.0
18&21	5.2	1.3	2.6	.0	24.2	2.6	.0	35.3	2.0	.0	7.2	.0	.0	.7		54.9
TOT PCT	4.1	1.2	1.4	.7	22.3	1.5	.0	30.2	2.6	.0	7.2	.0	.3	.7		59.1
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	4.8	7.2	3.2	1.2	.0		16.5	17.1	12.0	17.9	22.8	15.1	19.9	12.7	14.8	15.9
NE	.4	1.5	1.7	1.0	.0	.0		4.5	14.3	7.5	6.0	3.2	2.3	4.9	4.4	3.3	3.4
E	.3	.9	1.0	1.6	.3	.0		4.0	19.5	4.6	1.8	2.8	6.4	1.3	4.4	5.5	6.8
SE	.9	2.8	4.5	2.3	1.0	.0		11.6	17.3	13.5	3.6	7.0	4.1	14.3	19.3	13.7	7.4
S	.6	2.3	3.6	1.9	.5	.0		8.9	16.8	6.7	4.2	5.7	8.7	12.8	8.8	10.4	10.8
SW	.6	3.9	6.3	3.5	.8	.0		15.1	16.5	15.1	14.9	20.6	16.9	12.8	13.2	14.2	14.8
W	1.3	2.0	8.6	8.0	2.9	.1		23.0	21.4	23.6	31.0	24.1	30.2	20.9	21.9	21.5	15.9
NW	.4	2.9	6.3	4.2	1.3	.3		15.4	19.8	17.1	18.5	12.7	16.3	11.3	13.6	15.7	25.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0							1.0	.0	.0	2.4	1.3	.0	1.7	1.8	.9	.0
TOT OBS	34	126	235	154	48	2	599		18.2	104	42	79	43	117	57	113	44
TOT PCT	5.7	21.0	39.2	25.7	8.0	.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	2.3	6.3	6.1	1.5	.5		16.5	17.1	13.7	20.1	17.5	15.1
NE	1.1	1.5	1.8	.2	.0		4.5	14.3	7.0	2.9	4.7	3.3
E	.5	1.0	1.3	1.1	.0		4.0	19.5	3.8	4.1	2.3	5.9
SE	1.4	4.8	3.1	2.1	.2		11.6	17.3	10.6	5.9	15.9	11.9
S	1.3	3.8	2.3	1.6	.0		8.9	16.8	6.0	6.8	11.5	10.5
SW	2.6	5.5	5.1	1.7	.2		15.1	16.5	15.1	19.3	12.9	14.3
W	1.9	5.3	9.0	6.3	.5		23.0	21.4	25.7	20.2	21.3	19.9
NW	1.3	5.0	6.1	2.4	.7		15.4	19.8	17.5	13.9	12.1	18.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.0						1.0	.0	.7	.8	1.7	.6
TOT OBS	80	199	208	100	12	599		18.2	146	122	174	157
TOT PCT	13.4	33.2	34.7	16.7	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	.7	6.2	26.0	34.2	21.9	10.3	.7	17.8	100.0	146
06&09	.8	4.9	20.5	42.6	22.1	9.0	.0	18.3	100.0	122
12&15	1.7	4.0	20.1	40.2	28.7	5.2	.0	17.6	100.0	174
18&21	.6	3.8	17.8	40.1	28.7	8.3	.6	19.2	100.0	157
TOT	6	28	126	235	154	48	2	18.2		599
PCT	1.0	4.7	21.0	39.2	25.7	8.0	.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	1.1	.4	1.6	12.8		7.2
NE	.5	.2	1.5	2.7		6.6
E	.2	.1	.1	3.9		7.4
SE	.3	.4	1.1	8.0		7.3
S	2.2	.3	2.1	4.4		5.7
SW	5.6	1.3	3.3	5.4		4.6
W	7.5	2.3	8.3	5.2		4.4
NW	3.4	.5	3.6	8.4		5.8
VAR	.0	.0	.0	.0		.0
CALM	.4	.2	.4	.2		4.1
TOT OBS	110	30	115	264	519	5.7
TOT PCT	21.2	5.8	22.2	50.9	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	1.8	.4	1.7	3.7	2.6	2.8	1.0	.1	.2	.0	1.6	
NE	.5	.0	.2	.8	1.5	.5	.0	.0	.0	.0	1.5	
E	1.1	.0	.0	.7	1.5	.5	.0	.0	.0	.0	.1	.4
SE	2.1	.0	.6	1.0	2.0	1.5	.1	.0	.5	.2	1.8	
S	.8	.0	.3	.8	1.8	1.3	.2	.2	.1	.0	3.5	
SW	.2	.0	.1	.2	4.8	1.1	*	.0	.5	1.0	7.8	
W	1.1	.4	.2	.4	7.1	2.5	.4	.2	.1	.0	10.9	
NW	.7	.0	.4	1.5	6.5	2.2	.1	.1	.0	.0	4.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	
CALM	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0	.8	
TOT OBS	44	4	18	47	144	64	11	2	7	7	170	519
TOT PCT	8.5	.8	3.5	9.1	27.7	12.3	2.1	.6	1.3	1.3	32.8	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	1.2	2.1	2.5	2.7	2.7	2.7	2.7	2.7
* OR >5000	1.6	2.7	3.1	3.3	3.3	3.3	3.3	3.3
* OR >3500	2.9	4.9	5.6	5.8	5.8	5.8	5.8	5.8
* OR >2000	7.8	15.0	17.5	18.1	18.1	18.1	18.3	18.3
* OR >1000	17.3	34.8	42.7	44.7	46.0	46.0	46.4	46.4
* OR >600	18.3	38.1	48.3	53.2	55.1	55.1	55.5	55.5
* OR >300	18.4	39.0	50.7	55.9	58.6	58.4	59.0	59.0
* OR >150	18.4	39.2	51.3	56.7	59.2	59.2	59.8	59.8
* OR > 0	18.4	39.6	52.0	57.9	61.4	63.3	66.8	68.2
TOTAL	95	204	268	298	316	326	344	351

TOTAL NUMBER OF OBS: 515 PCT FREQ NH <5/8: 31.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
14.6	6.3	4.7	3.6	3.0	5.1	8.9	8.0	37.7	8.1	528

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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	1.2	.4	.4	.3	.3	.5	.8	.4	.0	.0	4.3	
<1/2	NO PCP	.3	.0	.0	3.0	.7	.0	.0	.2	.0	.0	4.3	
	TOT %	1.6	.4	.4	3.3	1.0	.5	.8	.6	.0	.0	8.6	
	PCP	.3	.0	.8	.3	.0	.2	.5	.3	.0	.0	2.4	
1/2<1	NO PCP	.3	.0	.2	.5	.0	.2	.2	.0	.0	.0	1.4	
	TOT %	.7	.0	.9	.8	.0	.3	.7	.3	.0	.0	3.8	
	PCP	2.2	.8	.2	.5	.5	*	.2	.4	.0	.0	4.8	
1<2	NO PCP	.3	.0	.0	.3	.4	.0	.0	.2	.0	.0	1.2	
	TOT %	2.5	.8	.2	.8	.9	*	.2	.6	.0	.0	6.0	
	PCP	2.8	.7	.8	1.1	.4	.9	1.5	1.9	.0	.0	10.1	
2<5	NO PCP	.6	*	.3	.2	.3	.4	1.0	.6	.0	.0	3.4	
	TOT %	3.4	.7	1.1	1.3	.6	1.4	2.4	2.5	.0	.0	13.6	
	PCP	.8	.2	.5	.9	.4	1.6	.9	2.0	.0	.0	7.2	
5<10	NO PCP	2.8	1.3	.3	2.0	1.9	3.6	7.4	3.4	.0	.2	22.8	
	TOT %	3.6	1.5	.8	2.9	2.3	5.2	8.3	5.4	.0	.2	30.0	
	PCP	.3	.0	.0	.2	.0	.0	.2	.8	.0	.0	1.4	
10+	NO PCP	4.6	1.2	.6	2.5	3.9	7.4	10.4	5.3	.0	.7	36.7	
	TOT %	4.8	1.2	.6	2.7	3.9	7.4	10.6	6.0	.0	.7	38.1	
	TOT OBS												583
	TOT PCT	16.6	4.7	4.1	11.7	8.7	14.9	22.9	15.5	.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
	0-3	.1	.0	.0	.2	.0	.0	.0	*	.0	.0	.3	
<1/2	4-10	.6	.4	.1	1.0	.1	.0	.0	.2	.0		2.4	
	11-21	.3	.0	.0	1.5	.5	.2	.3	*	.0		2.9	
	22+	.5	*	.3	.6	.4	.3	.5	.3	.0		2.9	
	TOT %	1.6	.4	.4	3.3	1.0	.5	.8	.6	.0	.0	8.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.2	.0	.3	.0	.0	.2	.0	.0	.0		.7	
	11-21	.2	.0	.2	.5	.0	.0	.2	.2	.0		1.2	
	22+	.3	.0	.4	.3	.0	.2	.5	.2	.0		1.9	
	TOT %	.7	.0	.9	.8	.0	.3	.7	.3	.0	.0	3.7	
	0-3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
1<2	4-10	.8	.0	.0	.2	.3	*	.0	.4	.0		1.7	
	11-21	.8	.4	.0	.2	.2	.0	.2	.0	.0		1.7	
	22+	.9	.4	.2	.1	.4	.0	.0	.2	.0		2.2	
	TOT %	2.5	.8	.2	.8	.9	*	.2	.6	.0	.0	5.9	
	0-3	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.2	
2<5	4-10	.6	.4	.3	.2	.2	.4	.1	.2	.0		2.4	
	11-21	1.5	.3	.3	.8	.3	.7	1.3	1.1	.0		6.5	
	22+	1.2	.0	.6	.3	.1	.3	.8	1.2	.0		4.4	
	TOT %	3.4	.7	1.1	1.3	.6	1.4	2.4	2.5	.0	.0	13.4	
	0-3	.0	.2	.1	.2	.0	.4	.5	.2	.0	.2	1.7	
5<10	4-10	.8	.3	.0	.9	.7	1.0	.7	.4	.0		4.9	
	11-21	1.6	.6	.3	.8	.7	2.1	1.6	2.5	.0		10.2	
	22+	1.1	.3	.3	.9	.9	1.7	5.4	2.2	.0		12.9	
	TOT %	3.5	1.4	.8	2.9	2.2	5.2	8.2	5.3	.0	.2	29.7	
	0-3	.0	.2	.1	.2	.5	.3	.9	.2	.0	.7	3.1	
10+	4-10	1.8	.5	.1	.6	1.1	2.3	1.2	1.7	.0		9.3	
	11-21	2.7	.4	.2	.7	2.1	3.4	4.9	2.7	.0		17.1	
	22+	.3	.2	.2	1.3	.7	1.7	3.4	1.4	.0		9.2	
	TOT %	4.8	1.2	.6	2.8	4.3	7.8	10.5	6.0	.0	.7	38.7	
	TOT OBS												989
	TOT PCT	16.5	4.6	4.0	11.8	9.1	15.2	22.7	15.3	.0	.8	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1963-1971
(OVER-ALL) 1880-1971

AREA 0003 NE NEWFOUNDLAND COAST
48.9N 53.2W

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	11.4	.8	3.0	9.1	23.5	12.1	3.0	.8	2.3	1.5	67.4	32.6	132
06&09	12.9	1.0	4.0	7.9	30.7	5.0	2.0	.0	2.0	2.0	67.3	32.7	101
12&15	6.3	.0	4.2	7.0	27.3	14.0	2.8	1.4	.7	2.1	65.7	34.3	143
18&21	4.8	1.4	2.7	11.6	30.1	15.8	2.1	.0	.7	.0	69.2	30.8	146
TOT	44	4	18	47	145	64	13	3	7	7	352	170	522
PCT	8.4	.8	3.4	9.0	27.8	12.3	2.5	.6	1.3	1.3	67.4	32.6	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	2.0	9.5	15.0	29.9	35.4	147
06&09	9.9	1.7	7.5	13.2	29.8	43.0	121
12&15	9.9	3.5	7.0	8.7	33.7	37.2	172
18&21	5.8	7.1	9.9	16.9	26.6	39.6	154
TOT	50	22	35	79	179	229	394
PCT	8.4	3.7	5.9	13.3	30.1	38.6	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	11.4	17.4	37.9	30.3	31.8	132
06&09	12.9	18.8	34.7	32.7	32.7	101
12&15	6.4	12.1	27.7	40.4	31.9	141
18&21	4.9	14.2	38.3	34.8	27.0	141
TOT	43	79	178	179	158	515
PCT	8.3	15.3	34.6	34.8	30.7	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
45/49	.0	.0	.0	.0	.0	.0	.2	.5	3	.7
40/44	.0	.0	.0	.0	.0	.9	1.4	1.6	17	3.9
35/39	.0	.0	.0	.9	.9	.9	1.8	6.0	46	10.6
30/34	.0	.0	.0	.5	.9	2.3	8.8	15.2	120	27.7
25/29	.0	.0	.2	.7	.5	5.3	7.2	7.1	82	18.9
20/24	.0	.0	.2	1.2	1.6	3.2	4.6	2.5	58	13.4
15/19	.0	.0	.5	.5	.7	4.6	4.6	.2	48	11.1
10/14	.0	.0	.0	1.6	1.6	.5	2.1	.5	27	6.2
5/9	.0	.0	.0	.7	.9	.9	.7	.2	15	3.5
0/4	.0	.0	.2	.0	.5	.2	.7	.7	10	2.3
-1/-4	.0	.0	.0	.0	.5	.0	.0	.2	3	.7
-5/-9	.0	.0	.0	.0	.2	.2	.0	.5	4	.9
TOTAL	0	0	5	26	36	83	139	144	433	100.0
PCT	.0	.0	1.2	6.0	8.3	19.2	32.1	33.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.2	.0	.2	.0	.2	.0	.0
	.2	.5	.2	.8	.4	1.4	.2	.0	.0	.2
	.7	.7	.8	2.9	1.8	2.3	1.2	.2	.0	.0
	7.8	2.5	2.4	2.3	3.2	2.5	2.5	4.3	.0	.2
	2.8	.8	1.0	2.7	1.0	2.8	3.9	4.0	.0	.0
	1.1	.3	.3	1.0	1.0	2.7	3.7	2.9	.0	.2
	1.2	.2	.0	.5	.2	2.8	4.2	2.2	.0	.0
	.2	.2	.0	.1	1.0	.6	2.5	1.5	.0	.0
	.2	.0	.0	.0	.0	.7	2.3	.2	.0	.0
	.0	.0	.0	.0	.0	.7	.9	.5	.0	.2
	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0
	.0	.0	.0	.0	.2	.1	.6	.1	.0	.0
	14.3	5.1	4.8	10.5	8.8	17.4	22.0	16.2	.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	44	42	39	26	9	0	-4	24.4	145
06&09	47	46	37	28	0	-8	-8	25.4	121
12&15	48	40	37	29	7	-7	-7	26.2	175
18&21	47	45	40	29	12	7	7	27.4	157
TOT	48	44	38	28	7	-4	-8	25.9	598

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	4.4	4.4	19.5	37.2	34.5	84	113
06&09	.0	3.5	15.1	23.3	29.1	29.1	81	86
12&15	.0	5.6	9.7	16.9	32.3	35.5	83	124
18&21	.0	14.3	5.4	17.9	28.6	33.9	81	112
TOT	0	31	36	83	139	146	83	435

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PERIOD: (PRIMARY) 1963-1971
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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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	2	.0	.4
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.7	.0	4	.0	.9
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.7	2.7	.0	.0	15	.2	3.1
6	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.0	.0	3	.0	.7
5	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.7	.2	.2	13	.7	2.2
4	.0	.0	.0	.0	.0	.0	.0	.0	2.7	.9	.0	.0	16	.9	2.7
3	.0	.0	.0	.0	.0	.0	.0	.4	3.8	.6	.0	.0	22	2.0	2.9
2	.0	.0	.0	.0	.0	.0	.0	.4	3.6	.0	.0	.0	18	1.6	2.5
1	.0	.0	.0	.0	.0	.0	.0	2.2	2.7	.0	.0	.0	22	.2	4.7
0	.0	.0	.0	.0	.0	.0	.0	5.4	1.6	.2	.0	.0	32	.9	6.3
-1	.0	.0	.0	.0	.0	.0	.7	6.3	1.3	.0	.0	.0	37	.9	7.4
-2	.0	.0	.0	.0	.0	.0	1.8	4.5	.4	.0	.0	.0	30	.0	6.7
-3	.0	.0	.0	.0	.0	.0	3.8	2.9	.0	.0	.0	.0	30	.0	6.7
-4	.0	.0	.0	.0	.0	.0	2.0	1.3	.7	.0	.0	.0	18	.0	4.0
-5	.0	.0	.0	.0	.0	.2	4.5	.4	.2	.0	.0	.0	24	.0	5.4
-6	.0	.0	.0	.0	.0	1.1	1.8	.0	.0	.0	.0	.0	13	.0	2.9
-7/-8	.0	.0	.0	.0	.0	3.8	1.1	.0	.0	.0	.0	.0	22	.0	4.9
-9/-10	.0	.0	.0	.0	1.6	3.1	.0	.0	.0	.0	.0	.0	21	.0	4.7
-11/-13	.0	.0	.0	.0	3.6	1.3	.0	.0	.0	.0	.0	.0	22	.0	4.9
-14/-16	.0	.0	.0	3.1	2.5	.4	.0	.0	.0	.0	.0	.0	27	.0	6.1
-17/-19	.0	.0	1.3	3.4	.0	.0	.0	.0	.0	.0	.0	.0	21	.0	4.7
-20/-22	.0	.2	1.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	10	.0	2.2
-23/-25	.0	.7	.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	8	.2	1.6
-26/-30	1.1	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	.0	2.5
<-30	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.7
TOTAL	8	10	16	31	36	45	70	107	89	25	5	3	445	34	411
PCT	1.8	2.2	3.6	7.0	8.1	10.1	15.7	24.0	20.0	5.6	1.1	.7	100.0	7.6	92.4

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	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	1.7	1.1	.0	.0	.0	2.7
3-4	.0	.6	2.3	1.1	.0	.0	4.0
5-6	.0	.0	2.9	.0	.0	.0	2.9
7	.0	.0	2.1	.6	.0	.0	2.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	1.8	1.8	.0	.0	3.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.1	.6	.0	1.7
17-19	.0	.0	.0	.9	1.1	.0	2.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	10.2	5.5	1.7	.0	20.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	.0	.6	.0	.0	.0	.6
5-6	.0	.0	.2	.0	.0	.0	.2
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	.0	1.4	.9	.0	.0	.0	2.3

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	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.6	.0	.0	.0	.0	.6
7	.0	.0	1.2	.6	.0	.0	1.8
8-9	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.0	2.4	.5	.0	2.9
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	.0	.6	1.2	4.3	.5	.0	6.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	1.8	.8	.6	.0	.0	.0	3.2
3-4	.0	.0	1.2	.0	.0	.0	1.2
5-6	.0	.6	.8	.6	.0	.0	2.0
7	.0	.0	1.8	.0	.0	.0	1.8
8-9	.0	.0	.0	1.2	.6	.0	1.8
10-11	.0	.0	.6	.8	.0	.0	1.4
12	.0	.0	.0	.6	.8	.0	1.4
13-16	.0	.0	.6	.0	1.2	.0	1.8
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	1.8	1.5	5.6	3.2	3.2	.0	15.4

PERIOD: (OVER-ALL) 1963-1971

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TABLE 18 (CONT)

AREA 0003 NE NEWFOUNDLAND COAST
48.9N 53.2W

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	.5	.0	.0	.0	.0	.5
3-4	.0	.5	.0	.6	.0	.0	1.1
5-6	.0	.0	.5	.6	.0	.0	1.1
7	.0	.0	1.2	.6	.0	.0	1.8
8-9	.0	.0	1.1	.0	.0	.0	1.1
10-11	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.6	.0	.0	.6
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	1.8	2.7	3.5	.0	.0	8.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.8	.0	.0	.0	1.5
1-2	.0	.0	.6	.0	.0	.0	.6
3-4	.0	.2	.6	.0	.0	.0	.8
5-6	.0	.0	.6	.6	.6	.0	1.8
7	.0	.0	.6	.6	.0	.0	1.2
8-9	.0	.0	.8	.8	.0	.0	1.5
10-11	.0	.0	.2	.6	.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	.0	.9	4.1	2.6	.6	.0	8.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.5	.0	.0	.0	.5
1-2	.0	.5	.6	.0	.0	.0	1.1
3-4	.0	.6	3.5	.5	.0	.0	4.6
5-6	.0	.0	1.1	1.8	1.2	.0	4.1
7	.0	.0	.6	1.8	1.2	.0	3.7
8-9	.0	.0	1.1	.5	.0	.0	1.5
10-11	.0	.0	1.7	2.3	.5	.0	4.4
12	.0	.0	.6	1.8	.0	.0	2.4
13-16	.0	.0	.6	.6	1.1	.0	2.3
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	1.1	10.2	9.3	4.0	.0	24.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.6	.0	.0	.0	.0	.6	
1-2	.0	.3	2.0	.0	.0	.0	2.3	
3-4	.0	.0	.9	.9	.0	.0	1.8	
5-6	.0	.0	.2	.6	.0	.0	.8	
7	.0	.0	.2	.6	.0	.0	.8	
8-9	.0	.0	.2	1.8	.0	.0	2.0	
10-11	.0	.0	.6	.8	.2	.0	1.5	
12	.0	.0	.0	.6	.0	.0	.6	
13-16	.0	.0	.6	.8	.8	.0	2.1	
17-19	.0	.0	.0	1.5	.2	.0	1.7	
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	.0	.9	4.6	7.6	1.1	.0	14.2	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	.0	3.7	1.2	.0	.0	.0	4.9	
1-2	1.8	4.9	4.9	.0	.0	.0	11.6	
3-4	.0	1.8	9.1	3.0	.0	.0	14.0	
5-6	.0	1.2	6.1	4.3	1.8	.0	13.4	
7	.0	.0	7.9	4.9	1.2	.0	14.0	
8-9	.0	.0	3.0	4.9	.6	.0	8.5	
10-11	.0	.0	4.9	7.3	.6	.0	12.8	
12	.0	.0	.6	6.1	1.2	.0	7.9	
13-16	.0	.0	1.8	3.0	3.7	.0	8.5	
17-19	.0	.0	.0	2.4	1.8	.0	4.3	
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	1.8	11.6	39.6	38.0	11.0	.0	100.0	164

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	.8	2.7	4.3	4.7	6.3	3.5	2.3	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	6
6-7	.0	.4	2.3	3.9	7.0	3.5	7.4	3.1	5.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	89	9
8-9	.0	.0	.4	.8	1.2	.8	2.0	2.3	2.7	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	11
10-11	.0	.0	.0	2.0	2.7	.0	1.2	.8	3.5	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	11
12-13	.0	.0	.0	.0	.4	1.2	.4	.0	.8	.4	.0	.0	1.2	.0	.0	.0	.0	.0	.0	11	16
>13	.0	.0	.0	.0	.8	1.2	.0	.0	2.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	12	12
INDET	1.2	2.0	.4	.0	.4	.0	3.1	.4	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	7
TOTAL	5	13	19	29	48	26	42	19	39	11	2	0	3	0	0	0	0	0	0	256	9
PCT	2.0	5.1	7.4	11.3	18.8	10.2	16.4	7.4	15.2	4.3	.8	.0	1.2	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1887-1971
(OVER-ALL) 1881-1971

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 53.1W

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	6.5	.0	5.3	3.6	27.5	1.4	.0	44.3	.7	.0	7.7	.0	.0		.0	47.2
NE	15.9	.0	9.3	1.4	20.0	3.5	.0	46.7	2.3	.0	9.3	.0	.0		.0	41.7
E	14.4	.0	10.0	.0	10.0	.0	.0	34.4	1.4	.0	26.3	.0	.0		.0	37.8
SE	11.5	.0	6.3	.0	28.8	.0	.0	42.4	4.7	.0	18.3	.0	.0		.0	34.6
S	.7	.0	3.0	1.4	14.9	.0	.0	19.9	.0	.0	13.2	1.0	1.4		.0	64.5
SW	.8	.8	.0	.0	17.9	.0	.0	18.6	1.5	.0	5.4	1.7	1.9		.0	70.8
W	.6	.9	2.1	.0	18.9	.0	.0	22.5	.6	.0	1.5	.0	2.1		3.4	69.7
NW	1.3	.0	1.6	2.1	23.3	1.6	.0	30.0	3.7	.0	15.9	.0	1.1		.0	49.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	33.3	.0	.0	33.3	.0	.0	11.1	.0	.0		.0	55.6
TOT PCT	5.2	.3	3.9	1.1	20.4	.8	.0	31.0	1.7	.0	10.2	.4	1.0		.6	55.2
TOT OBS:	714															

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	4.2	.5	3.1	2.1	18.3	2.1	.0	30.4	.5	.0	7.3	.5	2.6		.0	58.6
06&09	8.1	.0	2.0	2.0	26.3	1.0	.0	38.4	4.0	.0	8.1	1.0	1.0		.0	47.5
12&15	3.8	.0	5.5	.4	20.3	.4	.0	29.1	.8	.0	11.4	.0	.0		1.3	57.4
18&21	6.1	.5	3.6	.5	19.4	.0	.0	29.1	2.6	.0	12.2	.5	.5		.5	54.6
TOT PCT	5.1	.3	3.9	1.1	20.3	.8	.0	30.7	1.7	.0	10.1	.4	1.0		.6	55.6
TOT OBS:	723															

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	4.1	7.0	2.9	.1	.3		14.9	16.1	13.3	17.7	14.4	28.2	15.6	14.4	11.0	16.0
NE	.8	2.8	4.8	3.0	.4	.0		11.7	16.7	13.3	10.0	9.2	13.7	13.2	12.2	6.8	14.6
E	.8	2.7	2.6	1.2	.3	.0		7.7	13.8	5.2	5.5	3.2	4.8	8.2	13.1	7.5	11.8
SE	.5	2.8	2.0	.9	.5	.0		6.7	15.0	6.9	5.5	5.3	1.6	6.3	10.0	5.5	9.0
S	.6	3.6	3.3	2.0	.6	.1		10.3	15.9	9.6	10.0	10.2	5.6	9.0	10.3	14.3	10.1
SW	1.5	5.9	7.5	3.2	.1	.0		18.2	13.6	20.3	26.4	18.3	15.3	17.6	18.9	16.7	12.6
W	.5	3.5	7.3	3.3	1.7	.0		16.3	18.1	19.1	16.4	21.5	16.1	13.1	10.3	16.2	19.4
NW	.4	4.0	4.9	2.9	.6	.1		13.0	16.8	12.2	8.6	15.1	11.3	15.0	10.8	19.5	6.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2							1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	51	222	297	146	33	4	753		15.7	148	55	71	31	155	90	114	89
TOT PCT	6.8	29.5	39.4	19.4	4.4	.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	1.9	6.9	4.3	1.6	.3		14.9	16.1	14.5	18.6	15.2	13.2
NE	1.4	4.6	4.0	1.6	.1		11.7	16.7	12.4	10.5	12.9	10.2
E	1.7	3.8	1.5	.6	.1		7.7	13.8	5.3	3.7	10.0	9.4
SE	.9	3.4	1.6	.6	.1		6.7	15.0	6.5	4.2	7.7	7.0
S	1.6	4.8	2.1	1.4	.4		10.3	15.9	9.7	8.8	9.5	12.4
SW	3.6	8.5	5.1	1.0	*		18.2	13.6	21.9	17.4	18.1	14.9
W	1.4	6.3	5.4	2.4	.7		16.3	18.1	18.3	19.9	12.0	17.6
NW	1.8	4.7	4.9	1.3	.3		13.0	16.8	11.2	14.0	13.5	13.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.2						1.2	.0	.0	2.9	1.2	1.5
TOT OBS	117	324	217	79	16	753		15.7	203	102	245	203
TOT PCT	15.5	43.0	28.8	10.5	2.1		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	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	4.9	35.5	37.4	15.8	5.9	.5	15.4	100.0	203
06&09	2.9	4.9	21.6	37.3	23.5	9.8	.0	18.0	100.0	102
12&15	1.2	6.5	31.4	38.0	20.0	2.4	.4	16.7	100.0	245
18&21	1.5	5.4	25.1	44.3	20.2	2.5	1.0	16.0	100.0	203
TOT	9	42	222	297	146	33	4	15.7		753
PCT	1.2	5.6	29.5	39.4	19.4	4.4	.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	1.7	.8	2.4	11.0		6.8
NE	.9	.4	1.8	8.0		7.0
E	.4	.2	.6	3.5		7.0
SE	1.1	.1	.5	4.0		6.5
S	1.0	.5	2.1	5.6		6.6
SW	3.2	1.1	5.6	8.9		5.9
W	3.8	2.7	4.3	7.9		5.4
NW	1.6	1.1	2.8	9.4		6.6
VAR	.0	.0	.0	.0		.0
CALM	.0	.4	.2	1.2		6.7
TOT OBS	67	36	101	296	500	6.3
TOT PCT	13.4	7.2	20.2	59.2	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	2.3	.2	1.1	1.7	5.4	1.3	.5	.2	.2	.0	3.0	
NE	1.7	.6	1.0	1.6	1.8	2.1	.3	.0	.0	.0	1.9	
E	1.9	.2	.0	.2	.3	.6	.5	.2	.2	.0	.8	
SE	.9	.0	.2	1.3	.5	.9	.4	.0	.1	.0	1.5	
S	.8	.4	.4	1.2	1.6	.9	.4	.0	.3	.2	3.1	
SW	1.0	.0	1.5	2.2	3.6	2.4	.3	.0	.3	.1	7.5	
W	.6	.3	1.3	1.8	3.9	1.8	.2	.0	.4	.0	8.4	
NW	2.3	.9	1.4	1.5	2.8	.9	.4	.2	.4	.2	3.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.0	.0	.0	.4	.0	.4	.0	.0	.0	.6	
TOT OBS	58	13	34	57	101	53	17	3	9	2	153	500
TOT PCT	11.6	2.6	6.8	11.4	20.2	10.6	3.4	.6	1.8	.4	30.6	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	2.2	2.2	2.2	2.2	2.2	2.2	2.2
* OR >5000	1.6	2.8	2.8	2.8	2.8	2.8	2.8	2.8
* OR >3500	2.2	5.6	6.2	6.2	6.2	6.2	6.2	6.2
* OR >2000	4.6	12.8	15.2	16.0	16.6	16.6	16.6	16.6
* OR >1000	8.2	24.6	30.0	33.6	36.2	36.4	36.8	36.8
* OR >600	9.6	30.6	38.0	43.6	47.2	47.6	48.0	48.0
* OR >300	9.6	32.0	40.4	49.2	53.8	54.4	54.8	54.8
* OR >150	9.6	32.0	40.8	50.8	55.8	56.8	57.4	57.4
* OR > 0	9.6	32.2	41.6	52.6	59.4	64.8	68.4	69.2
TOTAL	48	161	208	263	297	324	342	346

TOTAL NUMBER OF OBS: 500 PCT FREQ NH <5/8: 30.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.5	4.9	6.4	5.4	2.7	3.9	5.6	6.6	41.4	11.5	514

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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	1.2	.9	.8	.4	.1	.9	.5	.9	.0	.0	5.2	
<1/2	NO PCP	.4	.7	1.8	.6	.6	.1	1.3	.0	.0	.1	6.2	
	TOT %	1.6	1.6	2.6	1.0	.7	.8	.6	2.2	.0	.1	11.3	
	PCP	1.1	1.8	.2	.7	.3	.5	.6	.4	.0	.0	5.6	
1/2<1	NO PCP	.1	.3	.1	.1	.2	.0	.1	.6	.0	.0	1.5	
	TOT %	1.2	2.1	.3	.7	.5	.5	.8	1.0	.0	.0	7.1	
	PCP	1.2	1.3	.3	.6	.4	1.0	.9	.8	.0	.0	6.4	
1<2	NO PCP	.5	.1	.0	.2	.2	.4	.1	.2	.0	.0	1.8	
	TOT %	1.7	1.4	.3	.8	.6	1.4	1.0	1.1	.0	.0	8.3	
	PCP	1.2	.4	.1	.2	.3	.8	.7	.7	.0	.1	4.6	
2<5	NO PCP	.4	*	.0	.2	.6	1.3	.6	.6	.0	.0	3.6	
	TOT %	1.5	.4	.1	.4	.9	2.1	1.3	1.3	.0	.1	8.3	
	PCP	1.7	1.2	1.2	.9	.8	.6	.9	.7	.0	.3	8.4	
5<10	NO PCP	5.6	4.6	2.3	1.9	3.9	6.6	7.6	4.2	.0	.3	36.8	
	TOT %	7.3	5.8	3.5	2.8	4.7	7.2	8.5	4.9	.0	.6	45.2	
	PCP	.1	.0	.0	.0	.1	.2	.0	.4	.0	.0	.7	
10+	NO PCP	1.1	.7	.6	.9	2.8	6.0	4.1	2.3	.0	.4	19.0	
	TOT %	1.2	.7	.6	.9	2.9	6.2	4.1	2.7	.0	.4	19.7	
	TOT OBS												714
	TOT PCT	14.5	12.1	7.3	6.7	10.4	18.2	16.3	13.2	.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	.1	.3	.3	.0	.0	.0	.3	.0	.1	1.1	
<1/2	4-10	.3	.3	.5	.1	.4	.6	.1	.6	.0		2.8	
	11-21	.7	.7	1.5	.5	.2	.3	.0	1.0	.0		4.9	
	22+	.7	.5	.3	.2	.1	.0	.5	.4	.0		2.5	
	TOT %	1.6	1.6	2.6	1.0	.7	.8	.6	2.2	.0	.1	11.3	
	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	4-10	.1	.1	.0	.4	.3	.3	.1	.6	.0		1.8	
	11-21	.6	1.5	.0	.3	.2	.2	.1	.4	.0		3.4	
	22+	.4	.4	.3	*	.0	*	.5	.2	.0		1.8	
	TOT %	1.2	2.1	.3	.7	.5	.5	.8	1.0	.0	.0	7.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
1<2	4-10	.4	.2	.0	.1	.1	.5	.4	.3	.0		1.8	
	11-21	.5	.7	.1	.5	.4	.7	.4	.4	.0		3.6	
	22+	.8	.6	.1	.3	.1	.3	.2	.3	.0		2.7	
	TOT %	1.7	1.4	.3	.8	.6	1.4	1.0	1.1	.0	.0	8.3	
	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.3	
2<5	4-10	.2	.2	.0	.1	.5	.9	.6	.2	.0		2.7	
	11-21	1.2	.2	.1	.1	.2	.4	.0	.3	.0		2.5	
	22+	.1	.0	.0	.3	.2	.7	.6	.9	.0		2.8	
	TOT %	1.5	.4	.1	.4	.9	2.1	1.3	1.3	.0	.1	8.3	
	0-3	.3	.6	.6	.2	.4	.7	.1	.0	.0	.6	3.4	
5<10	4-10	2.3	1.5	1.5	1.6	1.3	1.9	1.9	2.0	.0		13.9	
	11-21	3.6	1.6	.7	.2	1.2	3.3	4.2	1.8	.0		16.5	
	22+	1.2	2.1	.8	.8	1.9	1.4	2.3	1.2	.0		11.5	
	TOT %	7.3	5.8	3.5	2.8	4.7	7.2	8.5	4.9	.0	.6	45.2	
	0-3	.1	.1	.0	.0	.2	.8	.2	*	.0	.4	2.0	
10+	4-10	.6	.4	.2	.5	1.1	1.9	.6	.4	.0		5.7	
	11-21	.2	.2	.2	.4	1.1	2.6	2.2	1.4	.0		8.3	
	22+	.3	.0	.1	.0	.6	.9	1.0	.9	.0		3.8	
	TOT %	1.2	.7	.6	.9	2.9	6.2	4.1	2.7	.0	.4	19.7	
	TOT OBS												714
	TOT PCT	14.5	12.1	7.3	6.7	10.4	18.2	16.3	13.2	.0	1.3	100.0	

PERIOD: (PRIMARY) 1887-1971
(OVER-ALL) 1881-1971

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 53.1W

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	.7	6.0	15.7	18.7	6.7	3.7	.7	1.5	.0	62.7	37.3	134
06&09	17.4	2.2	5.4	9.8	23.9	8.7	.0	.0	2.2	.0	69.6	30.4	92
12&15	10.9	2.9	6.6	10.9	16.8	13.1	4.4	1.5	2.2	1.5	70.8	29.2	137
18&21	11.1	4.2	8.3	8.3	21.5	12.5	4.2	.0	1.4	.0	71.5	28.5	144
TOT	59	13	34	57	101	53	17	3	9	2	348	159	507
PCT	11.6	2.6	6.7	11.2	19.9	10.5	3.4	.6	1.8	.4	68.6	31.4	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	6.8	7.3	9.4	9.4	49.0	18.2	192
06&09	9.1	8.1	12.1	8.1	31.3	31.3	99
12&15	13.1	6.8	6.3	5.5	52.3	16.0	237
18&21	14.8	6.6	7.1	10.2	41.3	19.9	196
TOT	82	51	59	59	330	143	724
PCT	11.3	7.0	8.1	8.1	45.6	19.8	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	9.1	19.7	47.0	20.5	32.6	132
06&09	17.6	30.8	44.0	26.4	29.7	91
12&15	11.2	26.9	42.5	29.9	27.6	134
18&21	11.2	28.7	52.4	22.4	25.2	143
TOT	59	131	234	123	143	500
PCT	11.8	26.2	46.8	24.6	28.6	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
50/54	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
45/49	.0	.0	.2	.0	.0	.2	.2	.2	4	1.0
40/44	.0	.0	.2	.2	.2	.7	1.4	.5	14	3.3
35/39	.0	.2	.0	.2	1.2	3.6	1.9	5.5	53	12.6
30/34	.0	.0	.2	1.0	1.4	6.2	7.9	27.4	185	44.0
25/29	.0	.0	.0	1.0	1.2	6.9	6.2	5.7	88	21.0
20/24	.0	.0	.0	.2	.7	3.8	3.3	3.3	48	11.4
15/19	.0	.0	.0	.0	.7	.7	1.4	.2	13	3.1
10/14	.0	.0	.0	.0	.7	1.4	.7	.2	13	3.1
5/9	.0	.0	.0	.0	.0	.0	.2	.0	1	.2
TOTAL	0	1	3	12	26	99	98	181	420	100.0
PCT	.0	.2	.7	2.9	6.2	23.6	23.3	43.1		

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	.1	.0	.0
.0	.0	.0	.2	.5	.0	.0	.2	.0	.0
.0	.2	.4	.3	1.0	.7	.4	.0	.0	.2
1.2	1.5	1.4	.9	1.7	3.4	.8	1.7	.0	.0
8.4	7.0	2.3	3.0	3.7	6.7	5.9	6.5	.0	.5
3.6	2.1	.2	.8	2.7	4.0	3.6	3.7	.0	.2
1.9	.6	.0	.0	.0	1.3	5.5	2.3	.0	.0
.7	.0	.0	.0	.0	1.0	1.4	.0	.0	.0
.2	.0	.0	.0	.0	.9	1.7	.2	.0	.0
.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
16.2	11.4	4.3	5.2	9.6	18.1	19.5	14.8	.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	42	40	37	30	16	12	9	28.9	210
06&09	41	40	37	30	12	6	6	28.2	102
12&15	46	43	37	31	16	10	9	29.5	248
18&21	50	45	40	32	20	11	8	30.7	207
TOT	50	42	38	31	16	10	6	29.5	767

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	10.5	25.4	23.7	38.6	84	114
06&09	.0	.0	4.0	16.0	32.0	48.0	87	75
12&15	.0	3.5	3.5	26.5	16.8	49.6	86	113
18&21	.0	8.4	5.9	23.5	24.4	37.8	82	119
TOT	0	16	26	99	99	181	85	421

PERIOD: (PRIMARY) 1887-1971
(OVER-ALL) 1881-1971

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 53.1W

TABLE 17

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

AIR-SFA TMP DIF	09 13	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	1	.0	.4
11/13	.0	.0	.0	.0	.0	.0	.0	.4	.8	1.2	.0	6	.8	1.5
9/10	.0	.0	.0	.0	.0	.0	.0	.8	1.5	.0	.0	6	.0	2.3
7/8	.0	.0	.0	.0	.0	.0	1.5	3.5	.4	.0	.0	14	.0	5.4
6	.0	.0	.0	.0	.0	.0	2.3	1.5	.0	.0	.0	10	.8	3.1
5	.0	.0	.0	.0	.0	.0	2.7	1.2	.4	.0	.0	11	1.2	3.1
4	.0	.0	.0	.0	.0	.8	2.7	.4	.0	.0	.0	10	.8	3.1
3	.0	.0	.0	.0	.0	1.9	8.1	.8	.0	.0	.0	28	1.9	8.8
2	.0	.0	.0	.0	.0	6.2	3.8	.4	.0	.0	.0	27	1.9	8.5
1	.0	.0	.0	.0	.0	8.5	1.9	.8	.0	.0	.0	29	.8	10.4
0	.0	.0	.0	.0	.4	4.2	.4	.0	.0	.0	.0	13	.4	4.6
-1	.0	.0	.0	.0	.8	3.8	.0	.0	.0	.0	.0	12	.0	4.6
-2	.0	.0	.0	.0	4.2	3.5	.0	.0	.0	.0	.0	20	.0	7.7
-3	.0	.0	.0	.0	4.6	1.5	.0	.0	.0	.0	.0	16	.4	5.8
-4	.0	.0	.0	.0	4.2	3.1	.4	.0	.0	.0	.0	20	.0	7.7
-5	.0	.0	.0	.4	1.5	.0	.4	.0	.0	.0	.0	6	.4	1.9
-6	.0	.0	.0	1.2	1.2	.0	.4	.0	.0	.0	.0	7	.4	2.3
-7/-8	.0	.0	.0	.4	.8	.0	.0	.0	.0	.0	.0	3	.0	1.2
-9/-10	.0	.0	.8	2.7	.0	.0	.0	.0	.0	.0	.0	9	.0	3.5
-11/-13	.0	.0	.8	1.2	.0	.0	.0	.0	.0	.0	.0	5	.0	1.9
-14/-16	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	1.2
-17/-19	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.8
-20/-22	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.4
-26/-30	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.4
TOTAL	1	3	7	15	46	87	64	25	8	3	1	260	25	235
PCT	.4	1.2	2.7	5.8	17.7	33.5	24.6	9.6	3.1	1.2	.4	100.0	9.6	90.4

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	.0	.9	.0	.0	.0	.0	.9
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	3.4	1.7	.0	.0	5.1
5-6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.9	.0	.0	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.9	.9
23-25	.0	.0	.0	.0	.0	.9	.9
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	5.8	2.4	.0	1.7	10.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.4	.9	.0	.0	.0	4.3
1-2	.9	.2	.0	.0	.0	.0	1.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.4	.9	.0	.0	1.3
7	.0	.0	.9	.0	.9	.0	1.7
8-9	.0	.0	.9	.0	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.9	.0	.9
13-16	.0	.0	.9	.0	.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	.9	3.6	3.8	.9	1.7	.0	10.9

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	.0	.0	.0	.0	.6
3-4	.0	.0	.9	.0	.0	.0	.9
5-6	.0	.0	.6	.9	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.9	.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	.6	1.5	.9	.9	.0	3.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.2	.0	.0	.0	1.1
1-2	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.0	.0	.9	.0	.0	.9
5-6	.0	.0	.0	.9	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.2	.9	.0	1.1
10-11	.0	.0	.0	.9	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	1.7	.2	2.8	1.7	.0	6.4	

PERIOD: (OVER-ALL) 1963-1971

MARCH

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 53.1W

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	3.2	.6	.0	.0	.0	4.7
1-2	.0	2.8	.6	.0	.0	.0	3.2
3-4	.0	.0	.9	.0	.0	.0	.9
5-6	.0	.0	.9	.0	.0	.0	.9
7	.0	.9	.0	.0	.0	.0	.9
8-9	.0	.0	.9	.6	.0	.0	1.5
10-11	.0	.0	.0	1.3	.0	.0	1.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.9	.9	1.7
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	.9	6.6	3.8	1.9	.9	.9	15.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.9	.0	.0	.0	1.1
1-2	.0	.0	1.3	.0	.0	.0	1.3
3-4	.0	1.7	1.7	.9	.0	.0	4.3
5-6	.0	.0	.0	2.6	.0	.0	2.6
7	.0	.0	.9	.9	.0	.0	1.7
8-9	.0	.0	.9	1.1	.0	.0	1.9
10-11	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	1.7	.0	.0	1.7
13-16	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.2	.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	.0	1.9	5.6	7.7	.4	.0	15.6

W

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	.6	.0	.0	.0	.6
3-4	.0	.0	1.3	.0	.0	.0	1.3
5-6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	.9	1.5	.0	.0	2.4
10-11	.0	.0	.0	.9	.9	.0	1.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.6	.0	.0	.6
17-19	.0	.0	.0	.0	.6	.0	.6
20-22	.0	.0	.0	.0	.9	.0	.9
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
TOT PCT	.0	.9	4.3	3.0	1.3	.0	11.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	4.3	.9	.0	.0	.0	5.1	
1-2	.0	.9	.9	.0	.0	.0	1.7	
3-4	.0	.0	2.1	.9	.0	.0	3.0	
5-6	.0	.0	1.1	2.6	.0	.0	3.6	
7	.0	.0	5.1	3.4	.0	.0	8.5	
8-9	.0	.0	.9	.0	.0	.0	.9	
10-11	.0	.0	.0	1.1	.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	.0	5.1	10.9	7.9	.0	.0	23.9	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	13.7	3.4	.0	.0	.0	20.5	
1-2	.9	5.1	3.4	.0	.0	.0	9.4	
3-4	.0	1.7	10.3	4.3	.0	.0	16.2	
5-6	.0	.0	4.3	7.7	.0	.0	12.0	
7	.0	.9	8.5	4.3	.9	.0	14.5	
8-9	.0	.0	4.3	3.4	1.7	.0	9.4	
10-11	.0	.0	.0	4.1	.9	.0	6.0	
12	.0	.0	.0	1.7	.9	.0	2.6	
13-16	.0	.0	1.7	.9	1.7	.9	5.1	
17-19	.0	.0	.0	.0	.9	.0	.9	
20-22	.0	.0	.0	.0	.9	.9	1.7	
23-25	.0	.0	.0	.0	.9	.9	1.7	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	21.4	35.9	27.4	8.5	2.6	100.0	117

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	3.8	9.3	4.4	3.3	1.1	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	4
6-7	.0	.5	1.6	3.8	6.0	4.4	2.2	3.3	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	42	8
8-9	.0	.0	2.2	2.2	2.7	1.1	3.3	3.8	3.8	.0	.5	.5	.0	.5	.0	.0	.0	.0	.0	38	10
10-11	.0	.0	1.1	1.1	2.2	1.6	.5	.5	3.3	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	23	11
12-13	.0	.0	.0	1.1	.0	.0	.0	.0	2.7	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	13
>13	.0	.0	.0	.0	.0	.5	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	3	14
INDET	5.5	1.6	.0	2.7	1.1	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	22	3
TOTAL	13	11	26	28	28	17	12	14	21	4	4	3	0	1	0	0	0	0	0	182	8
PCT	7.1	6.0	14.3	15.4	15.4	9.3	6.6	7.7	11.5	2.2	2.2	1.6	.0	.5	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1942-1971
(OVER-ALL) 1881-1971

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 53.3W

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 W0 PCPN	FOG W0 PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.6	.9	5.0	.0	28.2	1.3	.6	39.9	1.1	.0	10.7	.0	.7		.0	47.7
NE	13.1	.0	7.2	.0	19.0	.0	.4	39.2	.4	.0	10.1	1.7	3.8		.0	44.7
E	6.1	1.8	4.9	2.4	3.7	.0	.0	18.9	1.8	.0	21.3	.0	1.8		.0	56.1
SE	5.7	1.4	2.8	2.8	9.2	.0	.0	21.3	1.4	.0	31.9	.0	.0		.0	45.4
S	4.6	2.0	.0	.0	8.8	.0	.0	13.4	.9	.0	12.0	1.1	.0		.0	72.6
SW	.0	.0	.0	1.2	5.2	.0	.0	6.4	.0	.0	4.3	.0	.0		.0	89.3
W	3.6	1.4	.0	.0	3.2	.0	.0	8.2	1.4	.0	.0	.0	.0		.0	90.4
NW	.9	.9	4.6	1.2	15.0	1.4	.0	23.7	2.6	.0	9.0	.0	.0		.0	64.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	10.0	.0	.0	.0	10.0	.0	.0	20.0	.0	.0	30.0	.0	.0		.0	50.0
TOT PCT	4.6	1.0	3.0	.7	13.6	.5	.2	22.6	1.2	.0	10.7	.3	.7		.0	64.5
TOT OBS:	605															

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 W0 PCPN	FOG W0 PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.9	1.9	5.6	.0	14.8	.0	.0	25.9	1.2	.0	11.7	.0	.0		.0	61.1
06&09	8.3	1.2	2.4	1.2	11.9	.0	.0	23.8	1.2	.0	8.3	.0	2.4		.0	64.3
12&15	4.0	.0	1.5	1.5	12.6	1.5	.5	21.6	1.5	.0	11.1	.5	.5		.0	64.8
18&21	2.8	1.1	2.3	.0	14.2	.0	.0	19.3	.6	.0	11.9	.6	.6		.0	67.0
TOT PCT	4.5	1.0	2.9	.6	13.5	.5	.2	22.4	1.1	.0	11.1	.3	.6		.0	64.4
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	.5	4.5	7.7	7.6	1.6	.0		21.7	19.3	21.2	26.4	18.4	24.2	18.4	25.3	19.8	25.7
NE	.5	3.0	4.7	1.3	.1	.0		9.7	14.0	10.4	5.5	10.5	5.8	4.3	10.6	14.0	15.2
E	1.0	2.5	2.8	.1	.1	.0		6.5	10.2	8.6	4.1	3.1	9.2	9.5	7.8	3.1	4.7
SE	.1	2.6	2.5	.8	.1	*		6.2	13.6	8.2	6.8	3.5	6.7	5.6	3.8	7.4	6.2
S	1.5	4.3	7.9	1.5	.4	.1		15.2	13.2	13.3	25.5	12.7	8.3	18.0	14.7	13.6	12.7
SW	.5	4.8	4.3	2.0	.0	.0		13.6	13.6	9.3	10.0	18.9	22.5	15.7	13.1	16.0	8.7
W	.3	3.2	5.4	2.2	.1	.0		11.1	15.1	11.1	9.1	14.5	5.8	13.2	9.4	9.8	12.7
NW	.4	3.3	6.5	3.2	.9	.0		14.3	16.9	17.0	10.9	14.9	17.5	12.2	15.3	14.5	12.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0	.9	1.8	3.5	.0	3.1	.0	1.9	1.4
TOT OBS	41	180	276	119	21	1	638		15.0	113	55	57	30	129	80	105	69
TOT PCT	6.4	28.2	43.3	18.7	3.3	.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	2.1	6.7	8.0	5.0	.0		21.7	19.3	22.9	20.4	21.1	22.1
NE	1.6	5.3	1.8	.9	.0		9.7	14.0	8.8	8.9	6.7	14.5
E	2.2	3.3	.9	.1	.0		6.5	10.2	7.1	5.2	8.9	3.7
SE	.9	3.6	1.3	.4	*		6.2	13.6	7.7	4.6	4.9	6.9
S	4.0	6.7	3.6	.8	.1		15.2	13.2	17.3	11.2	16.7	13.2
SW	2.7	6.6	3.8	.5	.0		13.6	13.6	9.5	20.1	14.7	13.1
W	1.6	5.2	3.3	1.1	.0		11.1	15.1	10.4	11.5	11.7	10.9
NW	1.9	5.7	4.5	2.2	.0		14.3	16.9	15.0	15.8	13.4	13.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	1.2	2.3	1.9	1.7
TOT OBS	119	275	173	70	1	638		15.0	168	87	209	174
TOT PCT	18.7	43.1	27.1	11.0	.2		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1942-1971
(OVER-ALL) 1881-1971

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 53.3W

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	1.2	3.6	30.4	38.1	23.8	2.4	.6	15.7	100.0	168
06&09	2.3	4.6	25.3	44.8	18.4	4.6	.0	14.9	100.0	87
12&15	1.9	7.2	28.7	41.6	18.2	2.4	.0	14.5	100.0	209
18&21	1.7	2.9	27.0	49.4	14.4	4.6	.0	15.1	100.0	174
TOT	11	30	180	276	119	21	1	15.0		638
PCT	1.7	4.7	28.2	43.3	18.7	3.3	.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	1.3	.7	3.2	18.6		7.2
NE	1.3	.3	1.7	6.3		6.4
E	.4	.4	1.0	4.6		7.1
SE	.6	.5	.4	4.0		6.7
S	2.9	.4	2.4	7.5		5.9
SW	4.2	1.1	4.6	3.7		4.8
W	4.4	1.1	2.7	3.4		4.3
NW	1.2	.9	2.4	10.1		6.9
VAR	.0	.0	.0	.0		.0
CALM	.4	.0	.2	1.2		6.0
TOT OBS	81	26	90	288	485	6.2
TOT PCT	16.7	5.4	18.6	59.4	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	4.2	1.2	3.0	3.7	3.3	3.7	1.0	.0	.4	.0	3.2	
NE	.9	1.1	1.0	1.6	1.3	.6	.4	.0	.4	.0	2.3	
E	1.5	.9	.2	.4	1.9	.2	.3	.0	.2	.0	1.2	
SE	1.1	.9	.5	.1	.9	.4	.3	.0	.1	.2	1.7	
S	2.3	.0	.4	1.3	1.8	.7	.4	.0	.4	.2	5.7	
SW	.8	.2	.2	.7	.7	1.9	.3	.0	.4	.2	8.2	
W	.0	.0	.4	.4	1.7	1.8	.2	.0	.4	.2	6.7	
NW	1.5	.3	2.1	.7	3.2	2.8	.1	.2	.1	.2	3.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.8	.0	.0	.0	.4	.0	.0	.0	.0	.0	.6	
TOT OBS	64	16	38	43	74	58	14	1	11	5	161	485
TOT PCT	13.2	3.3	7.8	8.9	15.3	12.0	2.9	.2	2.3	1.0	33.2	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	2.3	3.1	3.3	3.3	3.3	3.3	3.3	3.3
* OR >5000	2.5	3.3	3.5	3.5	3.5	3.5	3.5	3.5
* OR >3500	3.7	6.0	6.4	6.4	6.4	6.4	6.4	6.4
* OR >2000	9.9	17.7	18.3	18.3	18.3	18.3	18.3	18.3
* OR >1000	14.8	30.4	33.1	33.1	33.5	33.5	33.5	33.5
* OR >600	15.6	34.9	39.0	41.3	42.1	42.7	42.7	42.7
* OR >300	15.6	36.8	43.3	48.5	49.7	50.5	50.5	50.5
* OR >150	15.6	36.8	44.1	50.1	52.2	53.8	53.8	53.8
* OR > 0	15.6	37.0	45.6	53.8	58.3	62.4	65.9	66.9
TOTAL	76	180	222	262	284	304	321	326

TOTAL NUMBER OF OBS: 487 PCT FREQ NH <5/8: 33.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
15.8	6.7	4.7	3.9	1.8	4.1	5.5	5.1	39.8	12.8	493

APRIL

PERIOD: (PRIMARY) 1942-1971
(OVER-ALL) 1881-1971

AREA 0003 NE NFWFOUNDLAND COAST
49.0N 53.3W

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	1.5	.3	.0	.2	.3	.0	.0	.2	.0	.0	2.5	
<1/2	NO PCP	1.4	.2	.9	1.0	1.3	.2	.0	.6	.0	.5	6.1	
	TOT %	2.9	.6	.9	1.2	1.6	.2	.0	.7	.0	.5	8.6	
	PCP	1.0	.4	.0	.2	.2	.2	.0	.6	.0	.0	2.6	
1/2<1	NO PCP	.2	.2	.2	.5	.3	.2	.0	.3	.0	.0	1.8	
	TOT %	1.2	.5	.2	.7	.5	.4	.0	.9	.0	.0	4.5	
	PCP	3.1	1.3	.4	.2	.0	*	.1	.5	.0	.0	5.8	
1<2	NO PCP	.1	.2	.1	.2	.2	.2	.0	*	.0	.0	1.0	
	TOT %	3.2	1.5	.5	.5	.2	.2	.1	.6	.0	.0	6.8	
	PCP	1.6	.8	.5	.2	.6	.4	.2	.8	.0	.3	5.3	
2<5	NO PCP	1.6	.7	.5	.2	.0	.0	.0	.2	.0	.2	3.3	
	TOT %	3.2	1.4	1.0	.4	.6	.4	.2	.9	.0	.5	8.6	
	PCP	1.7	1.0	.4	.4	.7	.3	.5	1.2	.0	.0	6.1	
5<10	NO PCP	6.1	2.8	3.1	1.2	5.1	4.4	4.2	5.7	.0	.2	33.0	
	TOT %	7.8	3.8	3.5	1.6	5.9	4.9	4.7	6.8	.0	.2	39.1	
	PCP	.1	*	.0	.0	.0	.0	.2	.2	.0	.0	.5	
10+	NO PCP	3.9	1.9	.6	1.5	5.7	7.4	6.4	4.1	.0	.5	32.0	
	TOT %	4.0	2.0	.6	1.5	5.7	7.4	6.5	4.3	.0	.5	32.5	
	TOT OBS												606
	TOT PCT	22.2	9.8	6.8	5.8	14.5	13.4	11.6	14.3	.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
	0-3	.0	.0	.2	.0	.0	.0	.0	.2	.0	.5	.8	
<1/2	4-10	.8	.2	.6	.2	.5	.0	.0	.2	.0		2.5	
	11-21	.9	.2	.2	.7	.9	.2	.0	.4	.0		3.4	
	22+	1.1	.2	.0	.3	.2	.0	.0	.0	.0		1.8	
	TOT %	2.9	.6	.9	1.2	1.6	.2	.0	.7	.0	.5	8.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.2	.3	.2	.3	.0	.2	.0	.0	.0		1.1	
	11-21	.2	.2	.0	.1	.3	.2	.0	.2	.0		1.3	
	22+	.8	*	.0	.2	.2	.0	.0	.7	.0		2.0	
	TOT %	1.2	.5	.2	.7	.5	.4	.0	.9	.0	.0	4.4	
	0-3	.0	.0	.3	*	.0	.0	.0	.0	.0	.0	.3	
1<2	4-10	.3	.3	.0	.0	.2	.2	.0	.4	.0		1.3	
	11-21	1.1	1.0	.2	.2	.0	*	.1	.0	.0		2.8	
	22+	1.8	.1	.0	.2	.0	.0	.0	.2	.0		2.3	
	TOT %	3.2	1.5	.5	.5	.2	.2	.1	.6	.0	.0	6.7	
	0-3	.2	.0	.0	.0	.2	.0	.0	.0	.0	.5	.8	
2<5	4-10	.4	.4	.3	.0	.0	.0	.2	.4	.0		1.6	
	11-21	1.2	.7	.5	.2	.2	.2	.0	.4	.0		3.3	
	22+	1.4	.3	.2	.2	.3	.2	.0	.2	.0		2.8	
	TOT %	3.2	1.4	1.0	.4	.6	.4	.2	.9	.0	.5	8.5	
	0-3	.2	.3	.5	.1	.8	.5	.1	.2	.0	.2	2.8	
5<10	4-10	1.6	.8	1.5	1.0	2.0	1.6	1.4	1.8	.0		11.6	
	11-21	3.0	1.8	1.6	.5	2.1	2.3	1.7	3.4	.0		16.4	
	22+	2.9	.8	.0	.0	1.1	.6	1.5	1.4	.0		8.3	
	TOT %	7.7	3.7	3.5	1.6	5.9	5.1	4.7	6.8	.0	.2	39.1	
	0-3	.2	.2	.2	.0	.3	.0	.2	.0	.0	.5	1.5	
10+	4-10	1.3	.7	.0	.7	1.4	3.0	1.7	.6	.0		9.3	
	11-21	1.1	1.0	.5	.8	3.6	3.6	3.7	2.1	.0		16.4	
	22+	1.4	*	.0	.0	.4	1.3	.9	1.6	.0		5.6	
	TOT %	4.0	2.0	.6	1.5	5.6	7.9	6.5	4.3	.0	.5	32.7	
	TOT OBS												611
	TOT PCT	22.1	9.7	6.7	5.8	14.4	14.1	11.5	14.2	.0	1.6	100.0	

PERIOD: (PRIMARY) 1942-1971
(OVER-ALL) 1881-1971

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 53.3W

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	17.0	4.4	5.9	8.9	9.6	12.6	3.7	.0	1.5	.7	64.4	35.6	135
06&09	15.8	1.3	.0	11.8	19.7	15.8	1.3	1.3	5.3	.0	72.4	27.6	76
12&15	10.9	3.6	12.4	7.3	21.9	8.0	.7	.0	1.5	1.5	67.9	32.1	137
18&21	10.0	2.9	9.3	10.0	11.4	12.9	5.0	.0	2.1	1.4	65.0	35.0	140
TOT	64	16	36	45	74	58	14	1	11	5	326	102	488
PCT	13.1	3.3	7.8	9.2	15.2	11.9	2.9	.2	2.3	1.0	66.8	33.2	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	11.0	6.1	6.7	9.2	33.1	33.7	163
06&09	7.0	3.5	5.8	10.5	30.2	43.0	86
12&15	5.9	5.4	6.9	9.4	48.0	24.3	202
18&21	10.2	2.3	6.3	5.7	42.0	33.5	176
TOT	54	28	41	53	251	200	827
PCT	8.6	4.5	6.5	8.5	40.0	31.9	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 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	17.2	29.9	40.3	26.9	92.8	134
06&09	15.8	19.7	32.9	39.5	27.6	76
12&15	10.9	29.2	40.1	28.5	91.4	137
18&21	10.0	22.9	35.0	30.7	94.3	140
TOT	64	127	183	148	156	487
PCT	13.1	26.1	37.6	30.4	92.0	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
60/64	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
55/59	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
50/54	.0	.0	.0	.2	.0	.2	.2	.0	3	.7
45/49	.0	.0	.2	.0	2.1	.0	.9	.5	16	3.7
40/44	.0	.5	.5	.2	2.3	.7	1.4	1.2	29	6.8
35/39	.0	.2	.2	.5	1.9	7.5	10.3	13.1	144	33.6
30/34	.0	.0	.0	.9	1.6	6.3	14.5	18.4	179	41.7
25/29	.0	.0	.0	.2	.5	3.5	4.0	2.1	44	10.3
20/24	.0	.0	.0	.2	.0	.7	1.4	.5	12	2.8
TOTAL	0	3	4	12	36	81	140	153	429	100.0
PCT	.0	.7	.9	2.8	8.4	18.9	32.6	35.7		

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	.0	.0	.0	.0	.2	.0	.0	.0
.0	.0	.0	.1	.4	.1	.2	.0	.0	.0
.0	.0	.0	.5	.8	.8	.9	.2	.0	.5
.7	.7	.2	.2	1.7	1.7	1.2	.2	.0	.0
9.5	3.6	3.5	1.7	4.4	4.8	2.6	2.8	.0	.7
10.8	5.0	2.0	3.0	5.4	3.8	3.3	8.2	.0	.2
3.1	1.0	.2	.2	.2	1.0	2.4	2.2	.0	.0
.8	.1	.0	.2	.6	.3	.3	.1	.0	.2
24.9	10.4	5.9	6.0	13.8	12.6	11.1	13.8	.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	52	46	39	33	26	22	22	33.1	173
06&09	62	61	44	33	25	20	20	33.5	84
12&15	58	54	42	34	25	22	20	33.9	216
18&21	62	52	46	35	28	24	22	35.7	179
TOT	62	52	44	34	26	22	20	34.2	652

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	5.6	24.6	34.1	34.1	84	126
06&09	.0	.0	.0	20.6	36.5	42.9	88	63
12&15	.0	6.7	10.1	15.1	28.6	39.5	83	119
18&21	.0	7.3	13.8	15.4	32.3	30.9	80	123
TOT	0	19	36	81	140	155	83	431

APRIL

PERIOD: (PRIMARY) 1942-1971
(OVER-ALL) 1881-1971

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 53.3W

TABLE 17

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

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	1.1	.0	3	.0	1.1
11/13	.0	.0	.0	.0	.0	.4	.4	.0	2	.4	.4
9/10	.0	.0	.0	.0	.0	.7	.4	.4	4	.0	1.5
7/8	.0	.0	.0	.0	3.0	1.1	.0	.0	11	.0	4.1
6	.0	.0	.0	2.2	1.9	.0	.0	.0	10	.7	3.0
5	.0	.0	.0	3.7	1.3	.0	.0	.0	19	1.9	5.2
4	.0	.0	.0	6.3	2.6	.0	.0	.0	24	1.9	7.0
3	.0	.0	1.9	10.4	.7	.0	.0	.0	35	2.6	10.4
2	.0	.0	4.8	8.1	1.1	.0	.0	.0	38	.4	13.7
1	.0	.0	6.7	5.6	.0	.0	.0	.0	33	1.9	10.7
0	.0	.0	5.6	5.9	.0	.4	.0	.0	32	1.9	10.0
-1	.0	.7	2.2	1.9	.0	.0	.0	.0	13	1.1	3.7
-2	.0	.7	2.6	.7	.4	.0	.0	.0	12	1.1	3.3
-3	.0	1.5	1.5	.4	.0	.0	.0	.0	9	.4	3.0
-4	.0	1.5	.4	.0	.0	.0	.0	.0	5	.0	1.9
-5	.0	.7	1.1	.7	.0	.0	.0	.0	7	.0	2.6
-6	.7	.4	.0	1.1	.0	.0	.0	.0	6	.0	2.2
-7/-8	.4	.0	.4	.4	.0	.0	.0	.0	3	.0	1.1
-9/-10	.4	.4	.7	.0	.0	.0	.0	.0	4	.0	1.5
TOTAL	4	16	75	128	34	7	5	1	270	37	233
PCT	1.5	5.9	27.8	47.4	12.6	2.6	1.9	.4	100.0	13.7	86.3

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	.0	.9	.0	.0	.0	.0	.9
1-2	.0	.9	1.1	.0	.0	.0	2.0
3-4	.0	1.1	2.3	3.1	.0	.0	6.5
5-6	.0	1.1	2.3	.9	2.3	.0	6.5
7	.0	.0	1.1	.9	.0	.0	2.0
8-9	.0	.0	.0	.9	.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	2.0	1.1	.0	3.1
17-19	.0	.0	.0	.9	.0	.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	.0	4.0	6.8	8.5	3.4	.0	22.7

NE

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	1.1	.0	.0	.0	1.4
3-4	.0	.0	2.3	.0	.0	.0	2.3
5-6	.0	1.1	.0	.3	.0	.0	1.4
7	.0	.3	2.3	.0	.0	.0	2.6
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	3.4	.9	2.3	.0	.3	6.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	1.1	.0	.0	.0	1.1
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.1	.9	.0	.0	.0	2.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.9	.0	.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	2.0	2.0	.0	.0	.0	4.0

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	1.1	.0	.0	.0	.0	1.1
3-4	.0	.0	.3	.0	.0	.0	.3
5-6	.0	2.3	.3	.0	.0	.0	2.6
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	1.1	.0	.0	1.1
10-11	.0	.0	.0	1.1	.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	.3	.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	3.4	.9	2.3	.0	.3	6.8

PERIOD: (OVER-ALL) 1963-1971

APRIL

TABLE 18 (CONT)

AREA 0009 NE NEWFOUNDLAND COAST
49.0N 53.3W

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	1.1	.0	.0	.0	.0	1.1
1-2	.0	1.1	.0	.0	.0	.0	1.1
3-4	.0	.0	2.0	.9	.0	.0	2.8
5-6	.0	.0	3.1	.0	.0	.0	3.1
7	.0	1.1	.9	.0	.0	.0	2.0
8-9	.0	.0	.0	2.0	.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	.9	.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	.0	3.4	6.0	2.8	.0	.9	13.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	1.1	2.3	.0	.0	.0	4.5
1-2	.0	1.1	1.1	.0	.0	.0	2.3
3-4	.0	.0	4.8	.3	.0	.0	5.1
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.3	1.1	.0	.0	1.4
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	1.1	.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	1.1	2.3	8.8	2.8	.0	.0	15.1

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	.0	1.1	1.1	.0	.0	.0	2.3
3-4	.0	1.1	2.0	1.1	.0	.0	4.3
5-6	.0	.0	3.1	.0	.0	.0	3.1
7	.0	.0	4.3	.0	.0	.0	4.3
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	1.1	.0	.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	.0	3.4	10.5	2.3	.0	.0	16.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	2.6	.0	.0	.0	.0	2.6	
1-2	.0	.0	1.1	.0	.0	.0	1.1	
3-4	.0	.0	1.4	1.4	.0	.0	2.8	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	2.3	.3	.0	.0	2.6	
8-9	.0	.0	1.1	.0	.0	.0	1.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	1.1	.0	.0	.0	1.1	
13-16	.0	.0	.0	.3	.0	.0	.3	
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	.0	2.6	7.1	2.3	.0	.0	11.9	98.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.2	7.9	3.4	.0	.0	.0	13.5	
1-2	.0	5.6	5.6	.0	.0	.0	11.2	
3-4	.0	3.4	15.7	6.7	.0	.0	25.8	
5-6	.0	4.5	9.0	1.1	2.2	.0	16.9	
7	.0	2.2	12.4	2.2	.0	.0	16.9	
8-9	.0	.0	1.1	4.5	.0	.0	5.6	
10-11	.0	.0	.0	2.2	.0	.0	2.2	
12	.0	.0	1.1	.0	.0	.0	1.1	
13-16	.0	.0	.0	2.2	1.1	.0	3.4	
17-19	.0	.0	.0	1.1	.0	1.1	2.2	
20-22	.0	.0	.0	1.1	.0	.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	
								89
TOT PCT	2.2	23.6	48.3	21.3	3.4	1.1	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	1.7	5.1	10.2	6.2	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	4
6-7	.0	.6	3.4	9.0	6.2	2.3	1.1	3.4	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	7
8-9	.0	1.1	2.8	4.0	2.8	2.3	1.1	1.7	2.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	8
10-11	.0	.0	.0	.0	3.4	2.8	1.7	.6	1.7	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	20	10
12-13	.0	.0	.6	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	11
>13	.0	.0	.0	.0	.0	1.1	.0	.0	1.7	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	6	14
INDET	.6	.6	3.4	.6	.0	.6	1.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	5
TOTAL	4	13	36	35	30	16	11	10	18	2	1	1	0	0	0	0	0	0	0	177	7
PCT	2.3	7.3	20.3	19.8	16.9	9.0	6.2	5.6	10.2	1.1	.6	.6	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1878-1971

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.8W

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	5.6	.9	5.2	.0	5.9	.0	.0	16.4	.9	.0	28.6	.0	.0		.0	54.1
NE	2.8	.0	1.4	.0	5.6	.0	.0	9.8	2.8	.0	34.3	2.8	.0		.0	50.3
E	10.2	.0	.0	1.8	2.7	.0	.0	14.6	.0	.0	24.3	1.3	.0		.0	59.7
SE	12.9	.0	4.0	.0	8.0	.0	.0	25.0	1.8	.0	40.2	2.2	1.8		.0	29.0
S	12.7	.0	4.8	.0	1.0	.0	.0	16.5	.0	.0	18.2	.0	2.0		.0	63.3
SW	7.3	.0	.0	.0	3.2	.0	.0	10.1	2.5	.0	10.1	.0	.0		.0	77.2
W	3.2	1.8	1.4	.0	6.3	.0	1.8	13.1	1.4	.0	9.0	.0	.0		.0	76.5
NW	2.6	1.3	.3	.0	8.9	.0	.0	9.5	1.6	.0	21.1	.0	.0		.0	67.8
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	27.3	.0	.0		.0	72.7
TOT PCT	7.3	.5	2.4	.2	4.9	.0	.2	14.3	1.2	.0	22.4	.5	.9		.0	61.0
TOT OBS:	575															

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	7.5	.7	2.1	.0	5.5	.0	.0	15.1	.0	.0	21.2	1.4	1.4		.0	61.0
06&09	6.9	1.0	3.0	.0	2.0	.0	.0	9.9	2.0	.0	17.8	.0	.0		.0	70.3
12&15	5.9	.6	3.0	.0	8.3	.0	.6	17.8	1.2	.0	24.9	.6	.6		.0	55.0
18&21	8.0	.0	1.7	.6	2.3	.0	.0	11.5	1.7	.0	26.4	.0	.0		.0	60.3
TOT PCT	7.1	.5	2.4	.2	4.7	.0	.2	13.9	1.2	.0	23.2	.5	.9		.0	60.7
TOT OBS:	590															

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	5.0	7.5	3.6	1.1	.0		17.7	16.2	21.3	11.1	17.9	11.3	15.3	18.6	19.2	16.5
NE	.5	2.6	2.5	.1	.0	.0		5.8	10.3	7.2	9.7	5.1	.0	3.0	5.5	5.4	11.2
E	.4	4.1	3.8	.6	.2	.0		9.2	12.0	8.3	8.3	4.5	3.8	10.5	12.7	11.8	8.0
SE	1.0	5.5	3.0	1.3	.0	.0		10.9	10.6	12.6	9.7	6.5	13.8	10.9	13.2	8.2	18.6
S	1.1	5.6	8.9	1.4	.5	.2		17.7	13.8	16.5	30.6	23.2	20.0	12.5	14.5	19.0	13.3
SW	.6	4.1	7.8	1.9	.5	.0		14.9	14.7	13.6	9.7	15.2	28.8	14.1	15.9	15.9	13.8
W	.6	2.4	5.3	1.1	.0	.0		9.4	13.5	5.0	11.1	12.8	13.8	16.1	8.6	5.2	6.4
NW	.2	4.9	4.6	3.1	*	.0		12.8	14.9	13.0	6.9	12.5	8.8	15.1	10.9	13.8	12.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	2.5	2.8	2.4	.0	2.4	.0	1.5	.0
TOT OBS	42	213	270	81	14	1	621		13.5	121	36	84	20	124	55	134	47
TOT PCT	6.8	34.3	43.5	13.0	2.3	.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	2.1	8.1	5.8	1.7	.0		17.7	16.2	18.9	16.6	16.3	18.5
NE	1.4	3.8	.4	.1	.0		5.8	10.3	7.8	4.1	3.8	6.9
E	1.7	5.6	1.7	.3	.0		9.2	12.0	8.3	4.3	11.2	10.8
SE	3.5	5.6	1.6	.2	.0		10.9	10.6	11.9	7.9	11.6	10.9
S	3.7	7.9	4.9	1.0	.2		17.7	13.8	19.7	22.6	13.1	17.5
SW	2.5	7.4	4.0	.6	.3		14.9	14.7	12.7	17.8	14.7	15.3
W	1.4	6.0	1.4	.5	.0		9.4	13.5	6.4	13.0	13.8	5.5
NW	2.4	5.3	4.0	1.1	.0		12.8	14.9	11.6	11.8	13.8	13.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	2.5	1.9	1.7	1.1
TOT OBS	127	308	148	35	3	621		13.5	157	104	179	181
TOT PCT	20.5	49.6	23.8	5.6	.5		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1878-1971

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49.0N 52.8W

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	2.5	6.4	38.9	35.0	14.6	1.9	.6	13.0	100.0	157
06&09	1.9	3.8	35.6	41.3	13.9	3.8	.0	14.5	100.0	104
12&15	1.7	5.6	35.8	44.1	11.2	1.7	.0	13.0	100.0	179
18&21	1.1	3.9	28.2	51.4	13.3	2.2	.0	14.0	100.0	181
TOT	11	31	213	270	81	14	1	13.5		621
PCT	1.8	5.0	34.3	43.5	13.0	2.3	.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	1.9	.6	1.7	14.7		6.9
NE	1.0	.0	1.1	5.0		6.6
E	1.4	.2	1.3	6.1		6.6
SE	.3	.3	.2	6.9		7.5
S	3.0	2.1	3.4	9.3		6.0
SW	3.3	1.8	3.4	5.1		5.3
W	3.0	.9	1.7	3.7		5.0
NW	2.7	1.6	1.9	8.2		5.9
VAR	.0	.0	.0	.0		.0
CALM	.4	.2	.6	.9		5.6
TOT OBS	78	36	71	277	462	6.2
TOT PCT	16.9	7.8	15.4	60.0	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	3.1	2.7	2.3	1.7	2.1	3.5	.4	.0	.2	.0	3.0	
NE	1.1	.9	.3	.2	.9	.5	.9	.2	.0	.0	1.9	
E	1.3	.0	.0	.8	2.0	.7	.4	.4	.4	.0	3.0	
SE	1.8	.0	.9	.8	1.3	.3	.4	.6	.1	.2	1.4	
S	1.8	.0	.4	.2	3.4	1.9	.7	.3	.2	1.3	7.5	
SW	.4	.1	.0	.4	1.6	1.6	.6	1.1	1.1	.2	6.5	
W	.5	.2	.0	.4	1.0	1.6	.6	.0	.0	.2	4.8	
NW	2.5	.7	.4	1.3	1.7	2.3	.5	.0	.3	.2	4.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.2	.6	.2	.0	.0	.0	.0	.9	
TOT OBS	59	21	20	28	67	59	21	12	10	10	155	462
TOT PCT	12.8	4.5	4.3	6.1	14.5	12.8	4.5	2.6	2.2	2.2	33.5	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	2.7	4.0	4.2	4.2	4.2	4.2	4.2	4.2
= OR >5000	3.4	5.9	6.6	6.6	6.6	6.8	6.8	6.8
= OR >3500	4.7	10.1	10.8	10.8	10.8	11.0	11.2	11.2
= OR >2000	10.6	21.1	23.7	23.7	23.7	23.9	24.1	24.1
= OR >1000	15.2	31.5	36.8	38.1	38.3	38.5	38.7	38.7
= OR >600	15.6	34.7	41.4	43.3	44.0	44.2	44.6	44.6
= OR >300	15.9	37.6	45.2	47.4	48.0	48.4	48.8	48.8
= OR >150	15.9	38.1	47.1	50.1	51.2	52.9	53.3	53.3
= OR > 0	15.9	38.1	47.6	50.7	53.7	58.1	65.3	66.6
TOTAL	75	180	225	240	254	275	309	315

TOTAL NUMBER OF OBS: 473 PCT FREQ NH <5/8: 33.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.2	6.3	5.9	5.2	2.5	2.5	5.9	6.5	40.0	12.1	478

MAY

PERIOD: (PRIMARY) 1951-1971
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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
	PCP	.5	.0	.3	.6	.3	.9	.0	.2	.0	.0	2.3	
<1/2	NO PCP	2.1	1.5	1.5	3.0	2.2	1.0	.4	1.6	.0	.2	13.4	
	TOT %	2.6	1.5	1.9	3.5	2.5	1.9	.4	1.7	.0	.2	15.7	
	PCP	.3	.0	.1	.4	.0	.2	.2	*	.0	.0	1.2	
1/2<1	NO PCP	1.3	.2	.0	.0	.0	.1	.1	.6	.0	.0	2.3	
	TOT %	1.6	.2	.1	.4	.0	.3	.3	.7	.0	.0	3.5	
	PCP	.8	.1	.5	.0	.2	*	.1	.3	.0	.0	2.1	
1<2	NO PCP	.5	.0	.3	.2	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	1.3	.1	.8	.2	.2	*	.1	.3	.0	.0	3.1	
	PCP	1.0	.2	.2	.7	1.3	.6	.3	.6	.0	.0	4.9	
2<5	NO PCP	1.4	.1	.6	.7	1.6	1.0	.3	.5	.0	.2	6.3	
	TOT %	2.3	.3	.7	1.3	3.0	1.6	.7	1.1	.0	.2	11.1	
	PCP	.3	.3	.3	.7	.5	.0	.5	*	.0	.0	2.8	
5<10	NO PCP	6.2	2.1	4.5	3.3	4.7	3.8	2.1	3.7	.0	.9	30.3	
	TOT %	6.5	2.4	4.8	3.0	5.3	3.8	2.6	3.7	.0	.9	33.0	
	PCP	.2	.0	.0	.0	.5	.2	.1	*	.0	.0	1.0	
10+	NO PCP	4.0	1.8	1.5	1.2	5.8	6.5	5.4	5.7	.0	.7	32.5	
	TOT %	4.2	1.8	1.5	1.2	6.3	6.7	5.5	5.7	.0	.7	33.6	
	TOT OBS												575
	TOT PCT	18.6	8.2	9.8	9.7	17.2	13.7	9.6	13.2	.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
	0-3	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.5	
<1/2	4-10	1.6	.7	.7	2.8	.6	.6	.1	.8	.0		8.0	
	11-21	.8	.8	.9	.8	1.7	.6	.1	.7	.0		6.5	
	22+	.2	.0	.2	.0	.1	.1	.0	.2	.0		.7	
	TOT %	2.5	1.4	1.8	3.8	2.5	1.3	.4	1.7	.0	.2	15.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.5	.0	.1	.1	.0	.1	.1	.2	.0		1.0	
	11-21	.8	.2	.0	.0	.0	.3	.2	.3	.0		1.7	
	22+	.3	.0	.0	.3	.0	.0	.0	.2	.0		.8	
	TOT %	1.6	.2	.1	.4	.0	.4	.3	.6	.0	.0	3.6	
	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	4-10	.2	.0	.2	.0	.0	.0	.0	.0	.0		.3	
	11-21	.6	.1	.3	.2	.2	*	.1	.0	.0		1.5	
	22+	.3	.0	.3	*	.0	.0	.0	.3	.0		1.0	
	TOT %	1.3	.1	.8	.2	.2	*	.1	.3	.0	.0	3.1	
	0-3	.0	.0	.0	*	.3	.0	.0	.0	.0	.2	.5	
2<5	4-10	.1	*	.3	.4	.6	.0	.2	.5	.0		2.2	
	11-21	.9	.2	.3	.3	1.8	1.2	.5	.3	.0		5.4	
	22+	1.2	.0	.2	.5	.2	.3	.0	.3	.0		2.7	
	TOT %	2.3	.3	.7	1.3	2.9	1.5	.6	1.1	.0	.2	10.9	
	0-3	.0	.2	.1	.2	.0	.0	.3	*	.0	.8	1.7	
5<10	4-10	1.7	1.3	2.5	1.6	2.0	1.2	.7	1.2	.0		12.2	
	11-21	3.1	.9	1.9	.8	2.4	2.0	1.2	2.0	.0		14.1	
	22+	1.6	.0	.2	.4	.8	.5	.3	.4	.0		4.2	
	TOT %	6.4	2.4	4.7	3.0	5.1	3.7	2.5	3.6	.0	.8	32.3	
	0-3	.3	.4	.3	.2	.5	.2	.2	.0	.0	.7	2.7	
10+	4-10	1.1	.7	.6	.3	2.2	2.0	1.4	2.2	.0		10.5	
	11-21	1.7	.6	.6	.6	3.1	3.8	3.3	1.5	.0		15.1	
	22+	1.0	.1	.0	.1	.9	1.6	.8	1.9	.0		6.3	
	TOT %	4.1	1.7	1.5	1.1	6.7	7.5	5.6	5.6	.0	.7	34.6	
	TOT OBS												589
	TOT PCT	18.1	6.1	9.6	9.8	17.4	14.5	9.6	13.0	.0	1.9	100.0	

MAY

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1878-1971

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.8W

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	12.9	4.8	4.0	2.4	12.9	13.7	7.3	4.0	.8	2.4	65.3	34.7	124
06&09	15.3	1.2	2.4	7.1	21.2	8.2	3.5	2.4	.0	4.7	65.9	34.1	85
12&15	13.5	7.1	6.3	7.9	14.3	12.7	3.2	3.2	3.2	.0	71.4	28.6	126
18&21	12.3	3.6	3.6	6.5	12.3	15.2	3.6	.7	3.6	2.2	63.8	36.2	138
TOT	63	21	20	28	69	61	21	12	10	10	315	158	473
PCT	13.3	4.4	4.2	5.9	14.6	12.9	4.4	2.5	2.1	2.1	66.6	33.4	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	18.1	3.4	1.3	9.4	36.2	31.5	149
06&09	11.4	2.9	1.9	11.4	32.4	40.0	105
12&15	16.8	4.6	4.0	11.0	31.2	32.4	173
18&21	16.4	2.8	4.0	11.9	28.2	36.7	177
TOT	97	21	18	66	192	210	604
PCT	16.1	3.5	3.0	10.9	31.8	34.8	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 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	12.9	23.4	33.1	33.9	33.1	124
06&09	15.3	18.8	34.1	32.9	32.9	85
12&15	13.5	29.4	41.3	31.0	27.8	126
18&21	12.3	22.5	37.0	29.0	34.1	138
TOT	63	113	173	149	151	473
PCT	13.3	23.9	36.6	31.5	31.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUM DITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.2	.2	.0	.0	.0	2	.5
55/59	.0	.2	.5	.0	.2	.0	.5	.2	7	1.7
50/54	.0	.0	.0	1.0	.2	.5	1.0	.5	13	3.2
45/49	.0	.0	.2	2.0	1.0	1.2	2.0	.2	27	6.7
40/44	.0	.0	.0	.2	1.0	5.7	5.7	6.9	79	19.6
35/39	.0	.0	.0	1.0	2.5	5.7	13.4	22.3	181	44.8
30/34	.0	.0	.0	.0	.5	3.2	6.2	10.9	84	20.8
25/29	.0	.0	.0	.0	.0	.5	.7	1.5	11	2.7
TOTAL	0	1	3	18	23	68	119	172	404	100.0
PCT	.0	.2	.7	4.5	5.7	16.8	29.5	42.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0
	.0	.0	.6	.2	.4	.2	.2	.0	.0	.0
	.5	.5	.0	.2	.8	.6	.2	.5	.0	.0
	.7	.1	.5	.2	1.7	1.5	1.2	.7	.0	.0
	2.4	1.1	1.4	1.7	5.9	3.1	2.0	2.0	.0	.0
	8.2	2.8	4.5	4.3	5.7	6.7	5.3	6.1	.0	1.2
	4.4	1.9	2.4	1.7	2.4	2.3	.9	4.8	.0	.0
	1.0	.3	.2	.0	.0	.0	.2	.4	.0	.5
	17.1	6.7	9.5	8.4	17.0	14.7	10.3	14.5	.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	64	54	46	36	31	28	27	36.9	156
06&09	63	58	45	36	29	25	25	36.7	108
12&15	64	53	47	37	32	27	25	37.9	180
18&21	58	56	50	38	32	30	30	39.5	179
TOT	64	56	48	37	31	28	25	37.9	623

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.0	8.7	10.7	32.0	47.6	87	103
06&09	.0	.0	4.1	17.6	25.7	52.7	88	74
12&15	.0	6.8	5.9	16.9	26.3	44.1	85	118
18&21	.0	10.9	3.4	21.8	33.6	30.3	81	119
TOT	0	22	23	70	123	176	85	414

MAY

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1878-1971

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.8W

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	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.2	.0	.2	.4	.2	5	.0	1.1
14/16	.0	.0	.0	.0	.0	.0	.7	.7	.2	.0	7	.4	1.1
11/13	.0	.0	.0	.0	.2	1.1	.4	.2	.0	.0	9	.0	2.0
9/10	.0	.0	.0	.2	2.0	1.5	.4	.4	.0	.0	21	.9	3.7
7/8	.0	.0	.4	2.0	3.5	.7	.0	.0	.0	.0	30	.9	5.7
6	.0	.0	.4	1.5	2.0	.2	.7	.2	.0	.0	23	1.1	3.9
5	.0	.0	1.5	3.7	2.2	.7	.4	.0	.0	.0	39	.7	7.9
4	.0	.0	2.0	5.3	.9	.9	.0	.0	.0	.0	41	2.8	6.1
3	.0	.0	5.0	5.3	1.5	.2	.0	.0	.0	.0	55	4.4	7.7
2	.0	.2	7.9	4.4	1.1	.0	.0	.0	.0	.0	62	3.3	10.3
1	.0	1.5	5.7	3.9	.9	.0	.0	.0	.0	.0	55	3.1	9.0
0	.0	1.3	4.8	1.8	.7	.0	.0	.0	.0	.0	39	2.0	6.6
-1	.2	.7	3.5	1.1	.9	.0	.0	.0	.0	.0	29	2.4	3.9
-2	.2	.0	1.3	.7	.4	.0	.0	.0	.0	.0	12	.7	2.0
-3	.2	.4	1.3	.2	.0	.0	.0	.0	.0	.0	10	.4	1.8
-4	.2	.4	.0	.0	.2	.0	.0	.0	.0	.0	4	.2	.7
-5	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	3	.4	.2
-6	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	3	.2	.4
-7/-8	.2	.0	.4	.2	.0	.0	.0	.0	.0	.0	4	.2	.7
-11/-13	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	5	.2	.9
-14/-16	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	8	23	163	139	75	25	12	8	3	1	457	111	346
PCT	1.8	5.0	35.7	30.4	16.4	5.5	2.6	1.8	.7	.2	100.0	24.3	75.7

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	.9	.5	.0	.0	.0	1.5
1-2	.0	3.2	1.9	.0	.0	.0	5.1
3-4	.0	.5	2.0	2.1	.0	.0	4.7
5-6	.0	.5	.0	1.6	.9	.0	3.1
7	.0	.0	1.5	.0	.0	.0	1.5
8-9	.0	.0	2.3	1.5	.5	.0	4.3
10-11	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.5	.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	.0	5.2	8.2	5.7	2.0	.0	21.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.1	.1	.0	.0	.0	.8
1-2	.0	1.7	.3	.0	.0	.0	2.0
3-4	.0	.0	3.9	.0	.0	.0	3.9
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	.5	1.9	4.4	.0	.0	.0	6.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.9	.4	.0	.0	.0	1.9
1-2	.0	.9	.5	.0	.0	.0	1.5
3-4	.0	.8	2.3	.0	.0	.0	3.1
5-6	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	.0	.5	.0	.0	.5
8-9	.0	.0	.0	.5	.0	.0	.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	.5	2.7	4.7	1.1	.5	.0	9.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	4.1	.0	.0	.0	.0	4.3
1-2	.0	1.1	1.3	.0	.0	.0	2.4
3-4	.0	.8	.5	.0	.0	.0	1.3
5-6	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	.0	1.1	.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	6.0	2.8	1.1	.0	.0	10.0

MAY

PERIOD: (OVER-ALL) 1963-1971 AREA 0003 NE NEWFOUNDLAND COAST 49.0N 52.8W

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	.9	1.7	.0	.0	.0	.0	2.7	.5	2.3	.7	.0	.0	.0	3.5
1-2	.0	1.1	1.9	.0	.0	.0	2.9	.0	.5	1.3	.0	.0	.0	1.9
3-4	.0	1.1	3.1	.0	.0	.0	4.1	.0	.0	1.6	1.1	.0	.0	2.7
5-6	.0	.0	1.9	.0	.0	.0	1.9	.0	.5	2.7	.5	.0	.0	3.7
7	.0	.0	2.0	.0	.0	.0	2.0	.0	.0	1.7	.5	.0	.0	2.3
8-9	.0	.0	.0	.5	.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	.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	8.8	.5	.0	.0	14.2	.5	3.3	8.0	2.1	.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	.0	.0	.4	.0	.0	.0	.4	.0	3.2	.0	.0	.0	.0	3.2	
1-2	.0	1.3	1.7	.0	.0	.0	3.1	.0	1.9	.1	.0	.0	.0	2.0	
3-4	.0	.0	.4	.0	.0	.0	.4	.0	.0	2.3	1.6	.0	.0	3.9	
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	2.7	.1	.0	2.8	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	2.1	.0	.0	2.7	
8-9	.0	.0	.5	.0	.0	.0	.5	.0	.0	.4	1.2	.0	.0	1.6	
10-11	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	
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	4.1	.5	.0	.0	6.0	.0	5.1	3.9	7.6	.1	.0	16.7	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	4.3	13.4	2.1	.0	.0	.0	19.8	
1-2	.0	11.8	9.1	.0	.0	.0	20.9	
3-4	.0	3.2	16.0	4.8	.0	.0	24.1	
5-6	.0	1.1	8.0	4.8	1.1	.0	15.0	
7	.0	.0	5.9	4.3	.0	.0	10.2	
8-9	.0	.0	3.2	3.7	.5	.0	7.5	
10-11	.0	.0	.0	1.1	.5	.0	1.6	
12	.0	.0	.5	.0	.0	.0	.5	
13-16	.0	.0	.0	.0	.5	.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	4.3	29.4	44.9	18.7	2.7	.0	100.0	187

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	2.3	5.0	12.4	7.0	6.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97	4
6-7	.0	1.0	9.7	6.4	5.4	3.7	1.0	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	5
8-9	.0	.0	.7	4.0	5.4	1.0	2.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	7
10-11	.0	.7	.0	.3	4.0	1.3	1.0	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	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	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	2.0	3.3	3.7	3.3	2.7	1.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	4
TOTAL	13	30	79	63	64	28	13	6	3	0	0	0	0	0	0	0	0	0	0	299	5
PCT	4.3	10.0	26.4	21.1	21.4	9.4	4.3	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1869-1971

AREA 0003 NE NEWFOUNDLAND COAST
48.8N 52.4W

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	1.0	3.6	.0	.0	.0	.0	7.4	1.3	.0	39.4	1.0	.0		.0	50.9
NE	16.3	.0	3.9	.0	.0	.0	.0	20.2	.0	.0	47.3	.0	.0		.0	32.6
E	15.9	.0	6.1	.0	.0	.0	.0	22.0	.0	.0	34.8	3.0	3.0		.0	37.1
SE	15.4	1.4	5.7	.0	.0	.0	.0	22.5	.0	.0	23.2	1.4	5.7		.0	47.1
S	4.4	.0	1.5	.0	.0	.0	.0	5.9	1.2	.0	32.0	1.2	1.7		.0	58.0
SW	4.1	.4	2.2	.0	.0	.0	.0	6.6	.7	.0	20.4	.7	5.3		.0	66.1
W	1.8	.9	2.7	.0	.0	.0	.0	5.4	.0	.0	27.2	.0	1.8		.0	65.6
NW	2.4	.0	2.4	.0	.0	.0	.0	4.8	1.9	.0	27.2	1.1	.0		.0	65.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	5.3	.0	.0	.0	.0	.0	5.3	.0	.0	15.8	.0	.0		.0	78.9
TOT PCT	5.7	.6	2.8	.0	.0	.0	.0	9.1	.9	.0	29.3	1.0	2.3		.0	57.5
TOT OBS:	703															

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	1.0	2.9	.0	.0	.0	.0	7.1	1.4	.0	28.6	1.4	1.4		.0	60.0
06&09	5.4	1.4	3.6	.0	.0	.0	.0	10.1	1.4	.0	29.1	.0	2.0		.0	57.4
12&15	6.0	.5	1.4	.0	.0	.0	.0	7.9	.0	.0	33.5	.5	2.8		.0	55.3
18&21	8.0	1.1	3.4	.0	.0	.0	.0	12.6	.6	.0	23.6	1.7	2.3		.0	59.2
TOT PCT	5.6	.9	2.7	.0	.0	.0	.0	9.2	.8	.0	28.9	.9	2.1		.0	58.0
TOT OBS:	747															

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	5.1	7.0	.7	.1	.0		13.6	12.7	17.2	6.5	11.1	22.0	16.5	8.2	9.8	15.6
NE	.2	1.9	2.1	.4	.0	.0		4.5	11.8	6.5	2.4	2.8	2.0	3.9	2.4	5.7	6.3
E	.5	2.0	2.2	.3	.1	.0		5.1	11.7	4.5	1.2	6.5	4.0	3.9	3.8	7.1	7.8
SE	.5	4.0	3.9	1.4	.0	.0		9.7	13.1	16.4	6.0	7.3	2.0	7.9	7.7	9.9	4.7
S	.9	6.5	11.7	3.8	.1	.0		22.9	14.4	22.5	30.4	22.6	20.0	17.0	27.4	26.4	27.3
SW	.7	5.6	10.7	2.8	.1	.0		19.9	14.3	17.4	33.3	21.2	16.0	17.3	23.6	19.3	24.2
W	.3	3.0	4.1	.5	.0	.0		7.9	12.6	6.8	14.9	7.3	10.0	12.0	5.3	5.5	.0
NW	.3	3.7	6.0	2.6	.4	.0		13.0	16.1	7.1	3.0	15.7	16.0	15.5	21.6	14.9	10.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0	1.7	2.4	5.6	8.0	6.1	.0	1.4	3.1
TOT OBS	56	241	361	94	6	0	758		13.4	177	42	124	25	165	52	141	32
TOT PCT	7.4	31.8	47.6	12.4	.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	2.2	8.0	3.1	.3	.0		13.6	12.7	15.2	12.9	14.5	10.8
NE	.8	2.?	.6	.3	.0		4.5	11.8	5.7	2.7	3.6	5.8
E	1.6	2.3	1.0	.1	.0		5.1	11.7	3.9	6.0	3.9	7.2
SE	1.8	5.0	2.7	.1	.0		9.7	13.1	14.4	6.4	7.8	9.0
S	2.3	12.2	7.8	.6	.0		22.9	14.4	24.0	22.1	19.5	26.6
SW	2.6	9.8	7.0	.5	.0		19.9	14.3	20.4	20.3	18.8	20.2
W	1.7	3.9	2.3	.0	.0		7.9	12.6	8.3	7.7	10.4	4.5
NW	1.6	5.8	4.1	1.3	.1		13.0	16.1	6.3	15.8	16.9	14.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.4						3.4	.0	1.8	6.0	4.6	1.7
TOT OBS	137	379	217	24	1	758		13.4	219	149	217	173
TOT PCT	18.1	50.0	28.6	3.2	.1		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1951-1971
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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
0003	1.8	3.7	31.5	50.7	11.9	.5	.0	13.4	100.0	219
0609	6.0	2.7	26.8	46.3	16.8	1.3	.0	14.2	100.0	149
1215	4.6	5.1	34.6	43.8	11.1	.9	.0	12.8	100.0	217
1821	1.7	4.0	32.9	49.7	11.0	.6	.0	13.3	100.0	173
TOT	26	30	241	361	94	6	0	13.4		758
PCT	3.4	4.0	31.8	47.6	12.4	.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	1.9	1.0	1.3	7.8		6.3
NE	.3	.1	.3	3.7		7.3
E	.7	.3	.5	3.7		6.5
SE	.7	1.3	1.6	7.6		6.8
S	4.2	2.0	4.3	12.4		6.0
SW	6.2	1.9	3.5	8.1		5.0
W	1.3	1.1	1.6	4.2		5.9
NW	2.5	.3	3.1	7.2		6.3
VAR	.0	.0	.0	.0		.0
CALM	.9	.0	1.0	1.4		5.5
TOT OBS	107	46	98	321	572	6.0
TOT PCT	18.7	8.0	17.1	56.1	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	3.7	.3	.4	.3	1.2	1.2	1.5	.2	.0	.1	3.1	
NE	1.4	.0	.4	.3	.7	.3	*	.2	.0	*	.9	
E	1.7	.0	.4	.5	.7	.4	.0	.0	.0	.2	1.3	
SE	2.8	.2	.1	1.5	1.3	.5	.7	.2	.6	.4	2.9	
S	5.6	.0	.3	1.4	1.7	1.6	.3	.3	1.0	1.3	9.3	
SW	2.3	.0	.6	1.5	1.7	1.3	.6	.3	.6	.1	10.7	
W	1.5	.2	.1	.6	1.2	.4	.4	.3	.2	.0	3.3	
NW	2.7	.3	1.0	1.2	1.7	1.7	.3	.0	.3	.0	3.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.0	.0	.7	.2	.0	.2	.3	.3	.0	1.0	
TOT OBS	128	5	19	46	59	43	24	10	18	12	208	572
TOT PCT	22.4	.9	3.3	8.0	10.3	7.5	4.2	1.7	3.1	2.1	36.4	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	4.5	5.3	5.5	5.6	5.6	5.6	5.6	5.6
* OR >5000	5.8	7.0	7.1	7.3	7.3	7.3	7.3	7.3
* OR >3500	7.3	10.4	11.1	11.3	11.3	11.3	11.3	11.3
* OR >2000	10.8	17.5	18.4	18.7	18.9	19.2	19.2	19.2
* OR >1000	15.4	26.0	28.6	29.1	29.5	29.8	29.8	29.8
* OR >600	17.1	30.8	35.3	36.3	37.3	37.6	37.6	37.6
* OR >300	17.2	32.8	37.6	39.1	40.6	40.9	40.9	40.9
* OR >150	17.5	33.1	37.9	39.9	41.6	41.9	41.9	41.9
* OR > 0	17.5	34.4	40.4	44.9	49.3	54.5	60.9	63.4
TOTAL	106	208	244	271	298	329	368	383

TOTAL NUMBER OF OBS: 604 PCT FREQ NH <5/8: 36.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.2	7.6	6.3	4.8	2.9	3.9	6.6	7.4	26.0	20.2	619

JUNE

PERIOD: (PRIMARY) 1951-1971
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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
	PCP	.2	.1	.0	.1	.4	.1	.0	*	.0	.0	.9	
<1/2	NO PCP	3.4	1.4	.5	.7	4.6	2.6	1.4	1.5	.0	.3	16.3	
	TOT %	3.6	1.4	.5	.8	4.9	2.6	1.4	1.5	.0	.3	17.1	
	PCP	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.4	
1/2<1	NO PCP	.7	.2	.6	.5	1.2	.9	.1	.7	.0	.0	5.0	
	TOT %	.8	.2	.6	.7	1.2	.9	.1	.9	.0	.0	5.4	
	PCP	.1	.1	.6	.4	.1	.0	.0	.2	.0	.0	1.6	
1<2	NO PCP	.8	.0	.1	.4	.5	.0	.1	.5	.0	.1	2.6	
	TOT %	.9	.1	.8	.7	.6	.0	.1	.7	.0	.1	4.1	
	PCP	.1	.3	.0	.5	.1	.1	.0	.1	.0	.0	1.3	
2<5	NO PCP	.5	.2	.5	1.2	1.0	1.1	.5	.4	.0	.0	5.6	
	TOT %	.6	.5	.5	1.7	1.1	1.3	.5	.5	.0	.0	6.8	
	PCP	.4	.4	.4	.9	.8	.8	.0	.0	.0	.0	3.6	
5<10	NO PCP	3.6	.9	.9	2.1	6.6	5.1	2.4	4.0	.0	.6	26.2	
	TOT %	4.0	1.3	1.3	3.0	7.4	5.9	2.4	4.0	.0	.6	29.8	
	PCP	.1	.0	.0	.3	.0	.3	.4	.1	.0	.1	1.4	
10+	NO PCP	3.9	1.0	1.0	2.7	8.3	8.2	3.0	5.5	.0	1.6	35.2	
	TOT %	4.0	1.0	1.0	3.0	8.3	8.5	3.5	5.6	.0	1.7	36.7	
	TOT OBS												701
	TOT PCT	13.9	4.6	4.7	10.0	23.6	19.2	8.0	13.3	.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
	0-3	.0	.0	.0	.0	.1	.3	.2	.1	.0	.3	1.0	
<1/2	4-10	1.7	.5	.4	.7	1.3	.8	.9	.8	.0		7.1	
	11-21	1.9	.8	.4	.3	2.5	1.3	.2	.5	.0		7.9	
	22+	.0	.0	.0	.2	.9	.3	.0	.1	.0		1.5	
	TOT %	3.6	1.4	.8	1.2	4.7	2.7	1.3	1.6	.0	.3	17.5	
	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	4-10	.1	.0	.1	.3	.2	.4	.1	.3	.0		1.5	
	11-21	.5	.2	.3	.4	.8	.3	.0	.3	.0		2.7	
	22+	.1	.0	.0	.0	.2	.2	.0	.3	.0		.8	
	TOT %	.8	.2	.5	.7	1.2	.9	.1	.9	.0	.0	5.2	
	0-3	.1	.0	.0	.0	.0	.0	.0	*	.0	.1	.3	
1<2	4-10	.3	.0	.0	.3	.2	.0	.0	.0	.0		.8	
	11-21	.5	.0	.6	.4	.3	.1	.1	.7	.0		2.7	
	22+	.0	.1	.1	.0	.0	.0	.0	.0	.0		.3	
	TOT %	.9	.1	.8	.7	.6	.1	.1	.7	.0	.1	4.1	
	0-3	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	
2<5	4-10	.3	.2	.3	.5	.0	.3	.4	.2	.0		2.2	
	11-21	.2	.2	.2	.7	.8	.8	.1	.2	.0		3.2	
	22+	.0	.1	.0	.4	.2	.2	.0	.1	.0		1.1	
	TOT %	.6	.5	.5	1.6	1.1	1.2	.5	.5	.0	.0	6.6	
	0-3	.1	.0	.0	.3	.3	.2	.1	.1	.0	.8	1.9	
5<10	4-10	1.3	.4	.8	1.0	2.7	1.9	.4	1.2	.0		9.7	
	11-21	1.6	.8	.3	1.0	2.9	2.5	1.5	1.5	.0		12.1	
	22+	.8	.1	.1	.5	1.2	1.1	.3	1.1	.0		5.2	
	TOT %	3.8	1.3	1.2	2.9	7.1	5.7	2.3	3.8	.0	.8	28.9	
	0-3	.1	.2	.2	.2	.4	.2	.1	.1	.0	2.1	3.6	
10+	4-10	1.4	.7	.4	1.3	2.1	2.2	1.3	1.3	.0		10.7	
	11-21	2.5	.2	.4	1.3	4.1	5.1	2.3	3.0	.0		18.9	
	22+	.0	.0	.0	.2	1.5	1.2	.2	1.4	.0		4.5	
	TOT %	4.0	1.1	1.0	3.0	8.2	8.7	3.9	5.8	.0	2.1	37.7	
	TOT OBS												730
	TOT PCT	13.7	4.6	4.9	10.1	22.8	19.3	8.2	13.2	.0	3.3	100.0	

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1869-1971

AREA 0003 NE NEWFOUNDLAND COAST
48.8N 52.4W

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
00E03	21.9	.6	2.2	3.9	7.3	9.6	3.9	3.4	2.8	4.5	60.1	39.9	178
06E09	25.0	2.3	4.5	6.1	13.6	7.6	2.3	.0	1.5	.0	62.9	37.1	132
12E15	24.0	1.3	3.9	7.1	13.6	8.5	5.2	1.3	5.2	.6	68.8	31.2	154
18E21	15.1	.0	2.7	15.1	9.6	7.5	4.8	1.4	4.8	2.1	63.0	37.0	146
TOT	131	6	20	48	66	48	25	10	22	12	388	222	610
PCT	21.5	1.0	3.3	7.9	10.8	7.9	4.1	1.6	3.6	2.0	63.6	36.4	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
00E03	16.5	6.3	1.8	7.1	29.9	38.4	224
06E09	17.5	5.8	3.2	8.4	25.3	39.6	154
12E15	19.7	6.0	4.0	5.5	27.5	35.3	218
18E21	14.0	1.7	5.6	5.1	30.3	43.3	178
TOT	132	39	32	50	220	301	774
PCT	17.1	5.0	4.1	6.5	28.4	38.9	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
00E03	22.3	28.0	35.4	26.3	38.3	179
06E09	25.2	32.1	43.5	19.8	36.6	131
12E15	23.7	32.9	42.1	29.6	28.3	152
18E21	15.1	19.2	37.0	27.4	35.6	146
TOT	130	169	237	157	210	604
PCT	21.5	28.0	39.2	26.0	34.8	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
70/74	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
65/69	.0	.0	.2	.4	.4	.2	.0	.0	6	1.2
60/64	.0	.0	.4	.8	.0	.6	1.4	.6	19	3.7
55/59	.0	.0	.0	.4	1.0	2.0	1.2	.8	27	5.3
50/54	.0	.0	.0	.4	1.2	2.6	5.3	5.3	75	14.7
45/49	.0	.0	.0	.2	1.8	3.9	8.8	13.2	142	27.9
40/44	.0	.0	.0	.0	.4	2.0	7.3	19.1	146	28.7
35/39	.0	.0	.0	.0	.0	.6	4.9	12.2	90	17.7
30/34	.0	.0	.0	.0	.0	.0	.2	.4	3	.6
TOTAL	0	0	3	11	25	80	148	282	509	100.0
PCT	.0	.0	.6	2.2	4.9	11.8	29.1	51.5		

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	.0	.0	.0	.0
.0	.0	.2	.0	.0	.6	.1	.0	.0	.2
.2	.2	.0	*	1.1	1.9	.3	*	.0	.0
.5	.2	.0	1.0	1.3	1.2	.6	.2	.0	.2
.5	.1	1.2	2.1	4.8	2.8	1.2	.8	.0	1.2
3.0	1.2	1.0	3.0	8.4	5.6	2.0	2.5	.0	1.2
3.3	1.0	1.9	3.7	6.8	5.8	1.7	3.9	.0	.8
3.0	.6	.9	1.7	1.7	2.1	1.2	5.6	.0	.8
.0	.0	.0	.0	.0	.0	.3	.3	.0	.0
10.7	3.4	5.2	11.6	24.1	20.0	7.4	13.3	.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
00E03	71	67	57	43	37	34	32	44.5	230
06E09	70	61	55	41	36	34	32	43.1	156
12E15	67	63	56	44	37	35	35	44.7	227
18E21	66	65	62	45	38	37	35	46.1	179
TOT	71	64	57	44	37	35	32	44.6	792

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
00E03	.0	3.2	3.2	12.8	28.2	52.6	88	156
06E09	.0	.8	3.7	12.8	25.7	56.9	90	109
12E15	.0	1.3	4.6	12.5	28.9	52.6	88	152
18E21	.0	4.8	8.1	12.9	36.3	37.9	84	124
TOT	0	14	26	69	161	271	87	541

JUNE

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1949-1971

TABLE 17

AREA 0003 NE NEWFOUNDLAND COAST
48.0N 52.4W

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	29 33	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	NO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
23/25	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.1	3	.0	.4
17/19	.0	.0	.0	.0	.0	.0	.1	.1	.7	.0	.1	8	.0	1.2
14/16	.0	.0	.0	.0	.3	.3	.0	.3	.3	.3	.0	10	.0	1.5
11/13	.0	.0	.0	.0	.0	.0	1.3	.9	.4	.1	.0	27	.0	4.0
9/10	.0	.0	.0	.0	.7	1.5	1.2	.4	.3	.0	.0	28	.4	3.7
7/8	.0	.0	.0	1.8	3.3	1.9	.7	.4	.0	.0	.0	59	1.2	7.0
6	.0	.0	.1	1.0	3.3	.9	.4	.1	.0	.0	.0	40	1.6	4.3
5	.0	.0	1.2	3.6	2.7	1.6	.9	.1	.0	.0	.0	68	3.0	7.1
4	.0	.1	1.6	2.7	3.4	.7	.3	.0	.0	.0	.0	60	4.0	6.9
3	.0	.0	4.3	4.6	3.1	.9	.0	.0	.0	.0	.0	87	3.8	9.0
2	.0	.1	4.7	4.3	2.7	1.3	.1	.0	.0	.0	.0	90	4.3	9.0
1	.0	.3	7.2	3.0	.6	.3	.0	.0	.0	.0	.0	77	3.7	7.7
0	.0	.6	4.7	1.3	.7	.6	.0	.0	.0	.0	.0	54	1.3	6.7
-1	.0	.6	3.3	1.0	.3	.1	.0	.0	.0	.0	.0	36	3.3	2.1
-2	.0	.1	1.3	.1	.1	.1	.0	.0	.0	.0	.0	13	.9	1.0
-3	.0	.3	.3	.7	.3	.0	.0	.0	.0	.0	.0	11	.6	1.0
-4	.1	.3	.1	.0	.0	.1	.0	.0	.0	.0	.0	5	.3	.4
-5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-9/-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	17	196	103	150	75	35	18	14	4	2	676	102	574
PCT	.3	2.5	29.0	24.1	22.2	11.1	5.2	2.7	2.1	.6	.3	100.0	28.4	71.6

PERIOD: (OVER-ALL) 1949-1971

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	2.2	1.1	.0	.0	.0	3.3
1-2	.7	.0	1.1	.0	.0	.0	1.8
3-4	.0	2.1	1.1	.0	.0	.0	3.2
5-6	.0	.4	2.6	.4	.0	.0	3.3
7	.0	.4	1.2	.4	.4	.0	2.5
8-9	.0	.0	1.3	.0	.0	.0	1.3
10-11	.0	.0	.9	.0	.0	.0	.9
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
TOT PCT	.7	9.2	9.0	1.7	.4	.0	17.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.2	.1	.0	.0	.0	.7
1-2	.0	.4	.5	.0	.0	.0	1.0
3-4	.0	.0	1.3	.0	.0	.0	1.3
5-6	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.1	.0	.0	.0	.1
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	.4	.8	3.0	.0	.0	.0	4.1

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	.0	.0	.0	.0	.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	.4	.0	.0	.0	.4
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	.4	1.9	.4	.0	.0	3.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.1	.0	.0	.0	.6
1-2	.0	2.0	.0	.0	.0	.0	2.0
3-4	.0	.9	1.0	.4	.0	.0	2.2
5-6	.0	.5	1.2	.0	.0	.0	1.7
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	.1	3.8	3.1	.4	.0	.0	7.5

PERIOD: (OVER-ALL) 1949-1971 JUNE AREA 0009 NE NEWFOUNDLAND COAST 48.8N 52.4W

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	1.2	.6	.0	.0	.0	2.1
1-2	.4	3.0	.7	.0	.0	.0	4.2
3-4	.0	1.8	5.2	2.0	.0	.0	8.9
5-6	.0	.7	3.3	1.9	.0	.0	6.0
7	.0	.0	.9	.3	.0	.0	1.2
8-9	.0	.0	.6	1.2	.0	.0	1.8
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	.7	6.9	11.4	5.4	.0	.0	24.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	.5	.0	.0	.0	1.8
1-2	.0	1.5	.5	.0	.0	.0	2.0
3-4	.0	1.9	1.9	1.0	.0	.0	4.8
5-6	.0	.0	3.0	.6	.0	.0	3.6
7	.0	.0	.4	.6	.0	.0	1.1
8-9	.0	.0	.6	1.8	.0	.0	2.5
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	.4	3.4	7.1	4.5	.0	.0	15.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.0	.0	.0	.0	.0	.6
1-2	.0	1.6	.3	.0	.0	.0	1.9
3-4	.0	.7	1.4	.0	.0	.0	2.1
5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.4	.3	.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	.4	2.4	3.8	.3	.0	.0	6.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.5	.1	.0	.0	.0	.6	
1-2	.1	2.1	1.1	.0	.0	.0	3.3	
3-4	.0	.0	2.2	.0	.0	.0	2.2	
5-6	.0	.4	2.4	.4	.0	.0	3.2	
7	.0	.0	1.7	1.3	.0	.0	3.0	
8-9	.0	.0	.6	.4	.0	.0	1.1	
10-11	.0	.0	.0	.9	.4	.0	1.3	
12	.0	.0	.0	.6	.4	.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	.1	3.1	8.1	3.4	.9	.0	15.6	94.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.7	5.1	2.6	.0	.0	.0	15.3	
1-2	1.3	11.1	4.3	.0	.0	.0	16.6	
3-4	.4	7.2	14.0	3.4	.0	.0	25.1	
5-6	.0	2.1	15.7	3.4	.0	.0	21.3	
7	.0	.4	8.0	3.0	.4	.0	9.8	
8-9	.0	.0	3.8	3.8	.0	.0	7.7	
10-11	.0	.0	.9	1.3	.4	.0	2.6	
12	.0	.0	.0	.4	.4	.0	.9	
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	
								235
TOT PCT	9.4	26.0	47.2	14.2	1.3	.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	.2	7.5	17.2	10.0	1.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	154	4
6-7	.0	1.0	6.1	7.8	7.0	1.5	.2	.5	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	6
8-9	.0	.0	.5	3.4	3.6	4.1	1.7	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	7
10-11	.0	1.0	.7	.2	.7	.7	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	6
12-13	.0	.0	.2	.2	.0	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	7
>13	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	5.8	4.4	1.9	2.7	1.2	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	3
TOTAL	25	97	110	100	99	98	12	7	2	2	0	0	0	0	0	0	0	0	0	412	5
PCT	6.1	13.8	26.7	24.3	14.3	9.2	2.9	1.7	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1954-1970
(OVER-ALL) 1879-1970

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.9W

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	7.7	2.9	4.0	.0	.0	.0	.0	14.7	.7	1.5	17.6	1.5	6.6	.0		57.5
NE	15.5	2.4	3.0	.0	.0	.0	.0	20.8	.0	.0	17.9	.0	8.3	.0		53.0
E	5.4	.0	.0	.0	.0	.0	.0	5.4	1.0	.0	27.3	.0	3.9	.0		62.4
SE	5.7	.7	.7	.0	.0	.0	.0	7.1	1.1	.7	31.5	.0	4.8	.0		55.5
S	9.0	.3	2.1	.0	.0	.0	.0	11.3	1.0	.0	28.7	1.0	3.0	.0		54.9
SW	5.0	.4	1.3	.0	.0	.0	.0	6.7	.8	.2	17.1	.1	6.5	.0		68.6
W	3.1	1.0	1.5	.0	.0	.0	.0	5.6	2.0	.5	9.7	.8	5.6	.0		75.8
NW	.7	.0	1.4	.0	.0	.0	.0	2.2	2.2	.0	16.3	.0	8.7	.0		70.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	13.6	4.5	4.5	.0	.0	.0	.0	72.7	.0	.0	31.8	.0	.0	.0		45.5
TOT PCT	6.5	.8	1.7	.0	.0	.0	.0	9.0	1.0	.3	22.3	.5	5.2	.0		61.8
TOT OBS:	1058															

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	7.7	.4	2.1	.0	.0	.0	.0	10.2	.0	.7	16.8	.4	4.6	.0		67.7
06609	5.7	1.6	2.8	.0	.0	.0	.0	10.1	1.2	.4	23.9	.8	5.3	.0		58.3
12615	6.9	.7	.7	.0	.0	.0	.0	8.2	1.6	.0	30.3	.3	4.6	.0		54.9
18621	5.1	.4	2.0	.0	.0	.0	.0	7.5	1.2	.0	19.0	.4	6.3	.0		65.6
TOT PCT	6.4	.7	1.8	.0	.0	.0	.0	9.0	1.0	.3	22.7	.5	5.1	.0		61.5
TOT OBS:	1089															

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	2.9	2.5	.3	.1	.0		6.5	11.2	6.4	11.5	6.9	6.5	3.9	3.3	9.5	2.1
NE	.9	1.9	.9	.3	.0	.0		3.9	9.4	6.7	3.8	2.3	3.7	3.9	2.5	3.1	2.1
E	.2	1.9	2.6	.1	.0	.0		4.8	11.2	5.5	5.1	4.1	3.7	3.1	4.2	7.1	2.1
SE	.7	5.0	6.9	.6	.1	.0		13.3	12.2	17.1	9.0	13.2	12.0	13.1	5.0	12.4	14.6
S	.8	8.5	14.0	3.7	.0	.0		27.0	14.2	26.0	35.3	24.3	30.6	27.7	30.4	26.0	38.5
SW	.8	8.0	14.2	3.4	.1	.0		26.4	13.9	21.4	25.0	33.1	25.9	30.8	29.6	20.4	21.9
W	.2	3.4	4.6	1.1	.0	.0		9.4	12.9	7.2	7.7	7.6	13.0	10.2	19.2	10.5	6.3
NW	.4	2.2	2.8	1.1	.1	.0		6.6	14.0	6.0	2.6	6.7	4.6	4.8	5.8	9.6	12.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0	3.9	.0	1.7	.0	2.4	.0	1.3	.0
TOT OBS	76	372	537	116	4	0	1105		12.9	255	39	229	27	247	80	224	24
TOT PCT	6.9	33.7	48.6	10.5	.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	1.7	3.4	1.2	.2	.0		6.5	11.2	7.1	6.8	3.8	8.8
NE	1.3	2.0	.6	.0	.0		3.9	9.4	6.3	2.4	3.7	3.0
E	1.0	3.3	.5	.0	.0		4.8	11.2	5.4	4.1	3.3	6.7
SE	2.4	8.2	2.5	.2	.0		13.3	12.2	16.0	13.1	11.5	12.6
S	3.4	14.0	8.8	.8	.0		27.0	14.2	27.2	25.0	28.3	27.2
SW	3.2	14.8	7.7	.7	.0		26.4	13.9	21.9	32.3	30.5	20.6
W	2.0	4.8	2.4	.2	.0		9.4	12.9	7.2	8.2	12.0	10.1
NW	1.3	3.0	1.8	.5	.0		6.6	14.0	5.5	6.4	5.0	9.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	3.4	1.6	2.0	1.2
TOT OBS	204	591	282	28	0	1105		12.9	294	256	307	248
TOT PCT	18.5	53.5	25.5	2.5	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1954-1970
(OVER-ALL) 1879-1970

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.9W

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	3.4	5.8	34.0	47.3	8.8	.7	.0	12.4	100.0	294
06&09	1.6	5.5	37.5	45.7	9.8	.0	.0	12.4	100.0	256
12&15	2.0	3.6	35.2	49.5	9.1	.7	.0	12.9	100.0	307
18&21	1.2	4.4	27.4	52.0	14.9	.0	.0	14.0	100.0	248
TOT	23	53	372	537	116	4	0	12.9		1105
PCT	2.1	4.8	33.7	48.6	10.5	.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	1.7	.4	.9	3.7		5.7
NE	.7	.2	.7	2.4		6.2
E	1.1	.4	1.3	2.5		5.8
SE	2.8	1.1	3.1	7.2		5.9
S	5.1	2.3	5.4	13.6		5.8
SW	8.0	3.1	4.9	9.2		4.8
W	2.7	1.2	2.3	3.2		5.0
NW	1.6	.7	.7	3.5		5.5
VAR	.0	.0	.0	.0		.0
CALM	.4	.2	.3	1.4		6.0
TOT OBS	224	89	183	432	928	5.5
TOT PCT	24.1	9.6	19.7	46.6	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	1.1	.0	.4	1.5	.6	.4	.0	.0	.0	.2	2.5	
NE	.8	.0	*	1.0	.8	.1	.0	.0	.1	.2	1.1	
E	1.3	.0	.1	.5	.7	.0	.0	.1	.3	.2	2.2	
SE	3.8	.0	.3	2.3	1.4	.6	.2	.0	.4	.1	5.1	
S	6.2	.0	.4	2.6	3.0	1.5	.4	.2	.8	.6	10.7	
SW	3.4	.0	.2	2.5	2.2	1.5	.5	.2	.7	.6	13.6	
W	.8	.0	.3	1.1	1.3	.6	.2	.0	.5	.1	4.5	
NW	.8	.1	*	1.5	1.1	.3	.0	.0	.3	.0	2.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.8	.0	.0	.2	.3	.1	.0	.0	.0	.1	.9	
TOT OBS	174	1	16	123	106	47	11	4	29	18	399	928
TOT PCT	18.8	.1	1.7	13.3	11.4	5.1	1.2	.4	3.1	1.9	43.0	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	3.2	4.7	5.0	5.0	5.0	5.2	5.2	5.2
* OR >5000	3.2	5.2	5.5	5.5	5.5	5.6	5.6	5.6
* OR >3500	3.9	6.1	6.7	6.7	6.7	6.8	6.8	6.8
* OR >2000	7.1	10.6	11.5	11.6	11.7	11.8	11.8	11.8
* OR >1000	11.6	19.2	21.9	22.5	22.9	23.0	23.0	23.1
* OR >600	17.6	29.4	34.5	35.6	36.1	36.3	36.3	36.4
* OR >300	17.9	30.2	35.9	37.1	37.7	37.9	37.9	38.0
* OR >150	17.9	30.2	35.9	37.1	37.7	37.9	37.9	38.1
* OR > 0	18.0	30.9	38.1	40.1	43.2	45.5	52.3	57.2
TOTAL	168	288	355	374	403	424	487	533

TOTAL NUMBER OF OBS: 932 PCT FREQ NH <5/8: 42.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
15.8	9.0	9.3	5.3	3.5	5.0	7.0	7.4	19.6	18.2	969

JULY

PERIOD: (PRIMARY) 1954-1970
(OVER-ALL) 1879-1970

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.9W

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	.1	.2	.0	.1	.3	.2	*	.0	.0	.0	.9	
<1/2	NO PCP	.8	.2	.5	2.2	5.9	3.2	.5	.6	.0	.6	14.5	
	TOT %	.9	.4	.5	2.3	6.1	3.4	.6	.6	.0	.6	15.4	
	PCP	.0	.0	.0	*	.2	.0	.0	.0	.0	.0	.3	
1/2<1	NO PCP	.1	.3	.4	1.2	.7	.4	.2	.1	.0	.0	3.4	
	TOT %	.1	.3	.4	1.3	.9	.4	.2	.1	.0	.0	3.7	
	PCP	.1	.1	.0	.1	.2	.1	.0	*	.0	.0	.6	
1<2	NO PCP	.1	.3	.4	.3	.3	1.1	.2	.0	.0	.1	2.6	
	TOT %	.2	.4	.4	.4	.4	1.2	.2	*	.0	.1	3.2	
	PCP	.4	.1	.2	.1	1.1	.4	.2	.1	.0	.1	2.7	
2<5	NO PCP	.4	.1	.1	.8	1.3	1.0	.2	.9	.0	.0	4.8	
	TOT %	.9	.3	.3	.9	2.4	1.4	.4	1.0	.0	.1	7.6	
	PCP	.4	.4	.1	.4	.9	.9	.2	.0	.0	.3	3.5	
5<10	NO PCP	1.0	.6	.4	2.3	4.9	4.6	2.6	2.2	.0	.1	18.8	
	TOT %	1.3	1.0	.5	2.8	5.8	5.5	2.9	2.2	.0	.4	22.3	
	PCP	.0	.0	.0	.2	.4	.1	.1	.0	.0	.1	.9	
10+	NO PCP	3.1	1.7	2.7	5.5	11.1	14.1	5.1	2.6	.0	.9	46.8	
	TOT %	3.1	1.7	2.7	5.7	11.6	14.3	5.2	2.6	.0	.9	47.8	
	TOT OBS												1057
	TOT PCT	6.5	4.0	4.8	13.3	27.3	26.2	9.3	6.5	.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
	0-3	.2	.0	.0	.0	.3	.2	.0	*	.0	.6	1.3	
<1/2	4-10	.6	.3	.2	1.0	2.0	.8	.3	.2	.0		5.4	
	11-21	.1	.1	.3	1.3	2.7	1.7	.3	.4	.0		6.8	
	22+	.0	.0	.0	*	1.0	.8	.0	.0	.0		1.8	
	TOT %	.9	.4	.5	2.4	6.1	3.4	.6	.6	.0	.6	15.3	
	0-3	.0	.1	.0	.1	.2	.1	.0	.1	.0	.0	.6	
1/2<1	4-10	.1	.2	*	.5	.2	.1	.1	.0	.0		1.3	
	11-21	.0	.0	.3	.5	.5	.2	.1	.0	.0		1.7	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.1	.3	.3	1.2	.9	.4	.2	.1	.0	.0	3.6	
	0-3	.0	.1	.1	.0	.0	.0	.1	.0	.0	.1	.4	
1<2	4-10	.0	.1	.1	.1	.2	.3	.0	.0	.0		.7	
	11-21	.2	*	.2	.2	.3	.8	.0	*	.0		1.7	
	22+	.0	.2	.0	.1	.0	.2	.1	.0	.0		.6	
	TOT %	.2	.4	.4	.4	.4	1.2	.2	*	.0	.1	3.3	
	0-3	.2	.0	.0	.0	.0	.1	.0	.0	.0	.1	.4	
2<5	4-10	.3	.2	.2	.3	.6	.5	.0	.3	.0		2.3	
	11-21	.4	*	*	.5	1.4	.7	.3	.5	.0		4.0	
	22+	.0	.0	.1	.1	.3	.1	.0	.2	.0		.8	
	TOT %	.9	.3	.3	.9	2.4	1.4	.3	.9	.0	.1	7.5	
	0-3	.1	.2	.1	.2	.1	.1	.0	.0	.0	.4	1.1	
5<10	4-10	.6	.3	.2	.8	1.6	1.7	1.1	.9	.0		6.8	
	11-21	.6	.3	.2	1.5	3.1	3.2	1.2	1.1	.0		11.1	
	22+	.0	.0	.0	.2	.9	.6	.5	.8	.0		3.0	
	TOT %	1.3	.9	.5	2.7	5.7	5.5	2.8	2.2	.0	.4	22.0	
	0-3	.2	.5	.0	.4	.3	.4	.2	.3	.0	.9	3.1	
10+	4-10	1.4	.6	1.1	2.2	3.8	4.4	1.8	1.4	.0		16.7	
	11-21	1.3	.5	1.6	3.0	6.2	7.5	2.8	.9	.0		23.7	
	22+	.4	.1	.0	.2	1.5	1.8	.6	.2	.0		4.7	
	TOT %	3.3	1.7	2.7	5.8	11.7	14.1	5.3	2.8	.0	.9	48.2	
	TOT OBS												1082
	TOT PCT	6.6	4.0	4.8	13.4	27.2	26.1	9.4	6.6	.0	2.0	100.0	

PERIOD: (PRIMARY) 1954-1970
(OVER-ALL) 1879-1970

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.9W

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	16.7	.0	1.6	16.3	8.5	4.9	1.6	.4	3.3	1.2	54.5	45.5	246
06&09	22.1	.0	1.7	14.3	10.0	3.9	.4	.4	3.0	.4	56.3	43.7	231
12&15	21.1	.4	2.4	6.4	15.5	4.8	2.0	.4	2.4	3.6	59.0	41.0	251
18&21	15.2	.0	.9	15.7	10.3	6.3	.4	.4	4.0	2.2	55.6	44.4	223
TOT	179	1	16	124	106	47	11	4	30	18	536	415	951
PCT	18.8	.1	1.7	13.0	11.1	4.9	1.2	.4	3.2	1.9	56.4	43.6	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	12.3	3.1	4.1	6.5	22.9	51.2	293
06&09	16.1	4.7	2.4	7.5	21.3	48.0	254
12&15	21.6	3.9	3.9	8.1	21.0	41.6	310
18&21	12.8	2.3	2.7	8.2	22.6	51.4	257
TOT	177	39	37	84	244	533	1114
PCT	15.9	3.5	3.3	7.5	21.9	47.8	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	17.3	19.3	38.7	16.9	44.4	243
06&09	22.6	25.2	43.8	14.6	41.6	226
12&15	21.6	24.5	36.7	24.5	38.8	245
18&21	15.6	18.3	37.6	20.6	41.7	218
TOT	180	204	365	179	388	932
PCT	19.3	21.9	39.2	19.2	41.6	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	.1	.2	.0	.0	.0	.0	3	.3
75/79	.0	.1	.2	.5	.2	.1	.0	.0	11	1.2
70/74	.0	.2	.2	.7	.7	1.0	.0	.0	25	2.7
65/69	.0	.2	.2	.9	2.1	2.0	.5	.8	61	6.7
60/64	.0	.0	.3	.5	1.7	3.1	2.7	3.1	105	11.5
55/59	.0	.0	.0	.8	1.9	4.9	8.3	9.5	232	25.3
50/54	.0	.0	.0	.2	.5	2.4	9.6	18.3	285	31.1
45/49	.0	.0	.0	.0	.2	.4	4.7	12.6	164	17.9
40/44	.0	.0	.0	.0	.0	.0	.3	2.7	28	3.1
35/39	.0	.0	.0	.0	.0	.0	.0	.2	2	.2
TOTAL	0	5	10	35	67	127	240	432	916	100.0
PCT	.0	.5	1.1	3.8	7.3	13.9	26.2	47.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.2	.1	.0	.0	.0	.0
.2	*	.0	.0	.2	.4	.4	.0	.0	.0
.2	.1	.1	.1	.8	.7	.6	*	.0	.0
.2	.2	.5	.6	2.0	2.1	.8	.3	.0	.0
.5	.2	1.0	1.2	2.6	4.0	1.0	.7	.0	.2
.8	.9	1.3	3.1	7.0	7.9	2.9	.5	.0	.8
2.4	1.8	1.2	4.7	7.8	7.6	2.9	2.1	.0	.5
2.3	1.1	1.1	2.9	4.1	3.2	.6	2.0	.0	.5
.4	.1	.0	.8	.7	.2	.2	.7	.0	.0
.0	.0	.0	.0	.0	.0	.1	.1	.0	.0
7.0	4.3	5.1	13.5	25.6	26.3	9.5	6.5	.0	2.1

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	74	71	66	53	44	42	39	54.3	297
06&09	71	65	61	52	44	42	39	52.4	258
12&15	75	72	67	53	46	42	37	54.3	314
18&21	82	80	74	55	47	44	41	57.0	255
TOT	82	75	67	54	45	42	37	54.5	1124

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	6.4	15.6	25.2	48.0	86	250
06&09	.0	.0	4.1	13.6	24.9	57.5	89	221
12&15	.0	4.4	9.1	10.3	29.8	46.4	86	252
18&21	.0	13.4	9.5	16.9	24.9	35.3	80	201
TOT	0	50	67	129	243	435	86	924

PERIOD: (PRIMARY) 1954-1970
(OVER-ALL) 1879-1970

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.9W

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	37 40	41 44	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
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	2	.0	.2
20/22	.0	.0	.0	.0	.0	.0	.0	.1	.3	.1	.1	.1	7	.0	.7
17/19	.0	.0	.0	.0	.0	.2	.0	.9	.2	.6	.0	.0	19	.0	1.9
14/16	.0	.0	.0	.0	.2	.1	.9	.5	.5	.5	.2	.0	29	.1	2.8
11/13	.0	.0	.0	.0	.8	1.2	1.8	1.4	.4	.3	.0	.0	59	.2	5.7
9/10	.0	.0	.0	.3	1.0	2.3	1.7	.5	.3	.0	.0	.0	61	.7	5.6
7/8	.0	.0	.3	1.3	3.1	3.4	1.2	.5	.6	.0	.0	.0	104	1.3	9.0
6	.0	.1	.2	1.6	3.9	2.1	.7	.6	.1	.0	.0	.0	93	2.2	7.1
5	.0	.0	1.2	1.9	3.4	2.2	.2	.3	.0	.0	.0	.0	92	2.3	6.9
4	.0	.3	.9	2.8	3.4	1.0	.8	.3	.0	.0	.0	.0	95	2.5	7.0
3	.0	.4	.9	3.3	3.0	1.4	.4	.3	.0	.0	.0	.0	97	2.4	7.3
2	.0	.2	1.7	3.3	2.3	.8	.0	.0	.0	.0	.0	.0	83	3.0	5.3
1	.0	.6	1.2	3.6	1.5	.9	.2	.0	.0	.0	.0	.0	80	1.7	6.3
0	.0	.1	2.1	2.6	1.4	.3	.1	.0	.0	.0	.0	.0	66	2.4	4.2
-1	.0	.6	1.5	1.3	.4	.4	.0	.0	.0	.0	.0	.0	42	1.3	2.9
-2	.0	.4	1.4	.3	.3	.2	.0	.0	.0	.0	.0	.0	28	1.3	1.9
-3	.1	.2	.8	.2	.7	.1	.0	.0	.0	.0	.0	.0	21	.2	1.9
-4	.0	.2	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	8	.0	.8
-5	.0	.1	.9	.1	.2	.0	.0	.0	.0	.0	.0	.0	13	.6	.7
-6	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
-7/-8	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
-9/-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-11/-13	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2		197		257		80		24		5			222	784
		33		231		166		54		16		1	1006		
PCT	.2	3.3	13.6	23.0	25.5	16.5	8.0	5.4	2.4	1.6	.5	.1	100.0	22.1	77.9

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	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.8	.0	.0	.0	.0	.8
3-4	.0	.3	.3	.0	.0	.0	.7
5-6	.0	.3	1.5	.0	.0	.0	1.8
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	.0	1.8	2.3	.0	.0	.0	4.1

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	.1	.1	.0	.0	.0	.2
3-4	.0	1.0	1.0	.0	.0	.0	2.0
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+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	1.2	.0	.0	.0	2.3

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	1.2	.3	.0	.0	.0	1.5
3-4	.0	.3	.0	.0	.0	.0	.3
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	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	1.0	.0	.0	.0	2.5

SE

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	.0	1.8	1.8	.0	.0	.0	3.7
3-4	.0	.5	2.1	.0	.0	.0	2.6
5-6	.0	.4	2.8	.9	.0	.0	4.1
7	.0	.0	1.0	.4	.0	.0	1.4
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	3.8	7.8	1.3	.0	.0	13.4

PERIOD: (OVER-ALL) 1963-1970

JULY

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.9W

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	2.9	2.6	.0	.0	.0	5.5
3-4	.4	4.6	5.9	.9	.0	.0	11.7
5-6	.0	.8	2.7	1.6	.0	.0	5.1
7	.0	.0	3.8	.8	.0	.0	4.6
8-9	.0	.0	.7	2.5	.0	.0	3.2
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	9.0	16.0	5.8	.0	.0	31.2

SW

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	2.2	.3	.0	.0	.0	2.5
3-4	.0	5.0	4.2	.9	.0	.0	10.1
5-6	.0	.5	3.3	.5	.0	.0	4.3
7	.0	.4	5.3	1.5	.0	.0	7.3
8-9	.0	.0	.7	1.8	.0	.0	2.5
10-11	.0	.0	.5	.4	.0	.0	1.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	14.3	5.2	.0	.0	30.3

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	1.3	1.2	.0	.0	.0	2.5
3-4	.0	.8	.9	.0	.0	.0	1.6
5-6	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	.8	.3	.0	.0	1.1
8-9	.0	.0	.8	.8	.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	.0	2.1	4.5	1.1	.0	.0	7.6

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	.5	.5	.0	.0	.0	1.1	
3-4	.0	.1	.4	.0	.0	.0	.5	
5-6	.0	.5	1.1	.0	.0	.0	1.6	
7	.0	.0	.9	.0	.0	.0	.9	
8-9	.0	.0	.0	1.0	.0	.0	1.0	
10-11	.0	.0	.0	1.3	.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	.0	1.6	2.9	2.3	.0	.0	6.8	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.2	5.2	.0	.0	.0	.0	7.4	
1-2	.0	10.9	7.0	.0	.0	.0	17.8	
3-4	.4	12.6	14.8	1.7	.0	.0	29.6	
5-6	.0	2.6	12.6	3.0	.0	.0	18.3	
7	.0	.4	12.6	3.0	.0	.0	18.1	
8-9	.0	.0	2.2	6.1	.0	.0	8.3	
10-11	.0	.0	.9	1.7	.0	.0	2.6	
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	2.6	31.7	50.0	15.7	.0	.0	100.0	230

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	1.0	10.0	21.0	6.4	6.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	189	4
6-7	.0	1.7	8.1	5.7	6.7	3.6	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	116	5
8-9	.0	.2	1.7	3.8	4.3	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	6
10-11	.0	.0	.5	.0	1.2	.7	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	8
12-13	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
>13	.0	.0	.0	.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
INDET	1.7	3.8	3.8	.7	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	2
TOTAL	11	66	147	72	76	93	10	2	2	0	0	0	0	0	0	0	0	0	0	419	4
PCT	2.6	15.8	35.1	17.2	18.1	7.9	2.4	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1957-1970
(OVER-ALL) 1869-1970

AREA 0003 NE NEWFOUNDLAND COAST
49.1N 53.0W

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	11.9	4.0	3.4	.0	.0	.0	.0	19.3	.6	.6	8.1	.0	2.1		.0	69.3
NE	11.5	.3	7.3	.0	.0	.0	.0	19.1	2.9	.3	13.4	.0	3.8		.0	60.5
E	19.7	1.2	6.8	.0	.0	.0	.0	25.3	.9	1.2	11.2	1.2	1.2		.0	59.1
SE	11.1	2.6	4.6	.0	.0	.0	.0	18.4	1.3	.7	19.4	.2	2.2		.3	57.6
S	8.3	1.7	3.3	.0	.0	.0	.0	13.2	1.5	.0	19.4	1.4	3.5		.2	60.7
SW	4.6	.3	2.4	.0	.0	.0	.0	7.2	1.2	.4	9.2	1.2	6.7		.0	73.9
W	4.9	2.4	4.2	.0	.0	.0	.0	10.7	.0	1.3	8.2	.9	6.2		.0	72.7
NW	8.0	.8	3.5	.0	.0	.0	.0	11.4	1.8	.4	14.5	.0	1.2		.8	69.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	4.0	4.0	.0	.0	.0	.0	8.0	.0	.0	24.0	.0	8.0		.0	60.0
TOT PCT	8.7	1.7	3.9	.0	.0	.0	.0	14.0	1.2	.5	13.8	.7	3.8		.2	65.7
TOT OBS:	1202															

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	10.8	1.9	4.1	.0	.0	.0	.0	16.5	1.0	1.0	10.2	.6	2.5		.3	67.9
06&09	10.6	1.2	4.3	.0	.0	.0	.0	15.3	2.0	1.2	14.9	.0	1.6		.0	65.1
12&15	7.7	2.0	4.0	.0	.0	.0	.0	13.5	1.4	.0	17.8	1.4	3.2		.0	60.7
18&21	6.4	1.3	3.4	.0	.0	.0	.0	11.1	.7	.0	11.4	.7	3.4		.3	70.5
TOT PCT	8.8	1.6	3.9	.0	.0	.0	.0	14.1	1.2	.5	13.6	.7	3.8		.2	65.9
TOT OBS:	1217															

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	2.8	3.9	1.4	.5	.1		9.9	14.3	11.9	3.6	9.5	5.8	8.3	9.7	10.6	15.9
NE	1.1	2.5	2.3	.4	.2	*		6.4	11.2	5.6	5.4	4.5	7.7	7.0	9.7	8.2	.0
E	.4	3.7	2.4	.5	.1	.0		7.1	11.6	8.7	7.1	5.4	2.9	5.6	6.8	9.5	2.3
SE	.3	4.0	5.9	1.8	.2	.0		12.2	14.5	15.9	10.7	9.1	13.5	10.6	5.7	14.2	6.8
S	.7	5.8	12.7	2.9	.2	.0		22.3	14.7	24.9	26.8	24.3	15.4	20.8	23.9	18.7	34.1
SW	.6	6.8	11.0	1.6	.1	.0		20.1	13.7	14.5	28.6	24.3	26.0	24.1	22.7	16.5	18.2
W	.5	3.7	4.9	.7	.2	.0		9.6	13.2	6.6	8.9	11.3	19.2	11.9	9.7	7.7	11.4
NW	.5	4.0	3.6	1.5	.8	.0		10.3	15.2	8.3	8.9	8.2	9.6	10.5	11.9	13.9	11.4
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	.0	3.4	.0	1.3	.0	1.1	.0
TOT OBS	93	415	579	135	27	1	1250		13.6	301	28	234	26	310	44	285	22
TOT PCT	7.4	33.2	46.3	10.8	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	2.7	3.8	2.5	.8	.1		9.9	14.3	11.2	9.1	8.5	10.7
NE	1.9	3.4	.8	.2	.1		6.4	11.2	5.5	4.8	7.3	7.6
E	1.5	4.4	1.0	.2	.1		7.1	11.6	8.6	5.2	5.8	9.0
SE	1.4	6.3	3.9	.7	.0		12.2	14.5	15.4	9.5	10.0	13.7
S	2.0	11.9	7.8	.6	.0		22.3	14.7	25.1	23.4	21.2	19.8
SW	2.6	11.1	5.9	.5	.0		20.1	13.7	15.7	24.4	23.9	16.6
W	1.7	4.9	2.6	.3	.0		9.6	13.2	6.8	12.1	11.7	8.0
NW	1.8	4.8	2.5	1.0	.2		10.3	15.2	8.4	8.4	10.7	13.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	3.3	3.1	1.1	1.0
TOT OBS	220	632	336	55	7	1250		13.6	329	260	354	307
TOT PCT	17.6	50.6	26.9	4.4	.6		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1957-1970
(OVER-ALL) 1869-1970

AREA 0003 NE NEWFOUNDLAND COAST
49.1N 53.0W

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	3.3	7.3	35.0	43.8	8.8	1.5	.3	12.8	100.0	329
06&09	3.1	3.5	35.4	46.5	10.0	1.5	.0	13.3	100.0	260
12&15	1.1	6.5	29.9	48.0	11.0	3.4	.0	14.1	100.0	354
18&21	1.0	3.6	33.2	46.9	13.4	2.0	.0	14.2	100.0	307
TOT	26	67	415	579	135	27	1	13.6		1250
PCT	2.1	5.4	33.2	46.3	10.8	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	2.0	.7	2.1	5.4		5.9
NE	1.1	*	1.1	4.3		6.6
E	1.2	.4	1.3	4.0		6.2
SE	1.2	1.0	2.5	8.4		6.6
S	4.3	2.0	5.8	10.4		5.7
SW	6.5	2.0	5.2	6.1		4.7
W	3.7	1.7	2.0	1.5		3.6
NW	1.9	.9	2.3	4.9		5.8
VAR	.0	.0	.0	.0		.0
CALM	.7	.5	.3	.7		4.4
TOT OBS	248	100	249	503	1100	5.5
TOT PCT	22.5	9.1	22.6	45.7	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	1.1	.1	.3	1.9	2.0	.7	.3	.0	.1	.0	3.6	
NE	.7	.1	.4	1.1	1.7	.4	.3	.0	.1	.0	1.8	
E	.7	.2	.4	.8	1.7	.4	.1	.0	.3	.0	2.4	
SE	2.1	.1	.3	2.2	2.8	1.2	.3	.0	.1	.0	4.0	
S	3.1	.1	.7	1.7	2.8	1.4	.9	.0	.9	.5	10.4	
SW	1.2	.1	.2	1.4	2.3	1.0	.4	.2	.7	.3	12.3	
W	.5	.1	.0	.3	.5	.5	.2	.0	.1	.1	6.8	
NW	1.1	.1	.2	1.4	2.4	.5	.2	.0	.2	.2	3.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.1	.0	.2	.0	.0	.2	.0	1.5	
TOT OBS	117	9	28	120	177	68	29	2	29	12	509	1100
TOT PCT	10.6	.8	2.5	10.9	16.1	6.2	2.6	.2	2.6	1.1	46.3	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	2.6	3.3	3.6	3.6	3.6	3.6	3.7	3.7
* OR >5000	2.6	3.5	3.8	3.8	3.8	3.8	3.9	3.9
* OR >3500	3.6	5.0	5.7	5.7	5.8	5.8	5.9	5.9
* OR >2000	7.1	10.9	12.0	12.1	12.2	12.2	12.3	12.3
* OR >1000	15.8	24.1	27.4	28.0	28.2	28.4	28.6	28.6
* OR >600	19.8	31.0	36.9	38.2	38.8	39.0	39.2	39.2
* OR >300	20.3	32.0	38.5	40.4	41.1	41.2	41.7	41.7
* OR >150	20.3	32.1	38.6	40.8	41.7	42.1	42.5	42.5
* OR > 0	20.5	32.8	40.5	44.0	46.6	49.1	52.9	53.3
TOTAL	225	360	444	482	511	538	580	584

TOTAL NUMBER OF OBS: 1096 PCT FREQ NH <5/8: 46.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
15.6	11.5	8.9	6.1	4.1	4.9	9.1	6.8	23.4	10.1	1141

AUGUST

PERIOD: (PRIMARY) 1957-1970
(OVER-ALL) 1869-1970

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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	.1	.2	.2	.6	.0	.2	.1	.0	.0	1.4	
	NO PCP	.3	.2	.2	.7	2.0	1.1	.4	.7	.0	.2	5.9	
	TOT %	.3	.3	.4	.9	2.5	1.1	.7	.8	.0	.2	7.3	
1/2<1	PCP	.2	.2	.3	.1	.3	*	.0	.0	.0	.0	1.2	
	NO PCP	.0	.3	.1	.4	.5	.1	.1	.3	.0	.0	1.8	
	TOT %	.2	.6	.4	.5	.8	.1	.1	.3	.0	.0	3.0	
1<2	PCP	.2	.1	.4	.4	.2	.1	.0	.3	.0	.0	1.7	
	NO PCP	.1	.2	.2	.4	.4	.2	.0	.1	.0	.0	1.6	
	TOT %	.3	.3	.6	.8	.6	.3	.0	.4	.0	.0	3.3	
2<5	PCP	.6	.4	.4	.7	.5	.4	.2	.2	.0	.1	3.4	
	NO PCP	.6	.4	.3	1.1	1.8	.9	.5	.5	.0	.2	6.2	
	TOT %	1.2	.9	.7	1.7	2.3	1.2	.6	.7	.0	.3	9.7	
5<10	PCP	.6	.2	.1	.7	.8	.8	.3	.5	.0	.0	4.1	
	NO PCP	1.5	1.1	.7	2.1	3.8	4.6	1.6	1.8	.0	.2	17.4	
	TOT %	2.1	1.4	.8	2.8	4.6	5.4	2.0	2.3	.0	.2	21.5	
10+	PCP	.3	.1	.4	.2	.6	.2	.2	.0	.0	.1	2.2	
	NO PCP	5.4	3.0	3.7	5.6	10.9	11.8	5.7	5.6	.0	1.2	53.0	
	TOT %	5.7	3.1	4.1	5.8	11.5	12.0	6.0	5.6	.0	1.3	55.2	
	TOT OBS												1201
	TOT PCT	9.8	6.5	7.1	12.6	22.3	20.1	9.4	10.2	.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	.1	.1	*	.1	.0	.0	.1	.0	.0	.2	.7	
	4-10	.0	*	.2	.2	.8	.3	.3	.4	.0		2.2	
	11-21	.2	*	.2	.6	1.2	.7	.3	.2	.0		3.4	
	22+	.0	.2	.0	.0	.5	.1	.0	.2	.0		1.0	
	TOT %	.3	.3	.5	.9	2.5	1.1	.7	.8	.0	.2	7.3	
1/2<1	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.2	.2	.2	.3	*	.1	.1	.0		1.2	
	11-21	.0	.2	.2	.3	.4	.1	.0	.2	.0		1.3	
	22+	.1	.1	.0	.0	.1	.0	.0	.1	.0		.3	
	TOT %	.2	.6	.4	.5	.8	.1	.1	.3	.0	.0	2.9	
1<2	0-3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.1	.1	.1	.1	.0	.1	.1	.0		.6	
	11-21	.0	.1	.3	.5	.4	.2	.0	.0	.0		1.6	
	22+	.1	*	.2	.1	.1	.1	.0	.3	.0		1.0	
	TOT %	.3	.3	.6	.8	.6	.3	.1	.4	.0	.0	3.4	
2<5	0-3	.0	.1	.1	*	.0	.0	.0	.0	.0	.3	.5	
	4-10	.2	.2	.1	.6	.4	.6	.1	.1	.0		2.3	
	11-21	.6	.5	.4	.8	1.5	.5	.4	.4	.0		4.9	
	22+	.3	.1	.1	.3	.5	.1	.1	.2	.0		1.9	
	TOT %	1.2	.8	.7	1.7	2.3	1.2	.7	.7	.0	.3	9.6	
5<10	0-3	.0	.2	.1	.0	.3	.2	*	.2	.0	.2	1.1	
	4-10	.5	.5	.5	.8	1.0	1.7	.4	.8	.0		6.1	
	11-21	.9	.6	.2	1.1	2.5	3.3	1.3	.7	.0		10.5	
	22+	.7	.1	*	.9	.8	.2	.1	.6	.0		3.4	
	TOT %	2.1	1.3	.8	2.7	4.5	5.3	1.9	2.2	.0	.2	21.1	
10+	0-3	1.1	.6	.2	.2	.4	.4	.3	.3	.0	1.3	4.9	
	4-10	1.8	1.5	2.7	2.1	3.2	4.0	2.6	2.4	.0		20.3	
	11-21	2.1	1.0	1.1	2.8	6.8	6.4	2.5	2.2	.0		24.9	
	22+	.6	.1	.2	.7	1.2	1.2	.7	.9	.0		5.6	
	TOT %	5.7	3.1	4.3	5.7	11.6	12.1	6.0	5.8	.0	1.3	55.7	
	TOT OBS												1222
	TOT PCT	9.7	6.5	7.3	12.4	22.3	20.1	9.5	10.3	.0	2.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1957-1970
(OVER-ALL) 1869-1970

AREA 0003 NE NEWFOUNDLAND COAST
49.1N 53.0W

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	.7	2.0	11.5	13.9	6.8	3.7	.3	3.1	1.7	52.5	47.5	295
06&09	14.3	.8	2.1	10.5	14.8	6.3	3.0	.0	3.0	1.3	56.1	43.9	237
12&15	11.7	1.3	2.6	11.0	18.4	5.2	1.9	.3	1.6	1.0	55.0	45.0	309
18&21	7.8	.4	3.2	9.5	16.3	6.7	1.8	.0	2.8	.4	48.8	51.2	283
TOT	118	9	28	120	179	70	29	2	29	12	596	528	1124
PCT	10.5	.8	2.5	10.7	15.9	6.2	2.6	.2	2.6	1.1	53.0	47.0	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	5.0	2.2	3.6	7.5	21.2	58.6	321
06&09	10.1	3.1	2.7	11.3	22.2	50.6	257
12&15	9.9	3.7	2.5	11.6	21.5	50.7	353
18&21	4.2	2.6	2.6	7.5	20.3	62.7	306
TOT	90	36	42	117	263	689	1237
PCT	7.3	2.9	3.4	9.5	21.3	55.7	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	9.0	12.2	29.2	24.3	46.5	288
06&09	15.0	19.0	35.8	29.5	40.7	226
12&15	11.9	18.2	34.7	29.1	42.2	303
18&21	7.9	12.5	25.8	25.4	48.7	279
TOT	118	168	342	284	490	1096
PCT	10.8	15.3	31.2	24.1	44.7	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	.1	.2	.0	.0	.0	.0	3	.3
75/79	.0	.2	.3	.3	.7	.2	.0	.1	18	1.8
70/74	.0	.2	.0	.4	1.0	1.4	1.6	.0	46	4.7
65/69	.0	.0	.4	1.3	2.1	3.8	2.8	1.0	112	11.5
60/64	.0	.0	.1	.7	2.1	5.4	6.9	5.8	206	21.1
55/59	.0	.0	.0	.6	1.7	4.1	13.7	10.5	300	30.7
50/54	.0	.0	.0	.0	.6	2.9	7.0	12.7	226	23.1
45/49	.0	.0	.0	.0	.0	.8	1.7	4.3	67	6.9
TOTAL	0	4	9	35	82	182	329	337	978	100.0
PCT	.0	.4	.9	3.6	8.4	18.6	33.6	34.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	.2	.0	.0	.0	.0
.2	*	.0	.0	.7	.5	.4	.1	.0	.0
.1	.1	.1	.2	1.7	1.4	.7	.3	.0	.1
.8	.6	.8	.7	3.2	3.3	1.0	.4	.0	.5
.8	.6	1.8	3.1	5.4	4.5	1.9	2.2	.0	.8
3.1	2.4	2.7	5.1	5.7	5.3	3.0	3.1	.0	.2
3.9	2.2	2.0	3.5	3.0	2.7	2.0	3.3	.0	.5
1.8	1.0	.8	.5	.4	.3	.2	1.7	.0	.2
10.7	6.9	8.1	13.1	20.1	18.3	9.2	11.1	.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	77	74	69	57	49	45	45	57.6	330
06&09	71	69	66	55	48	46	45	56.0	265
12&15	78	73	69	57	49	46	44	57.8	356
18&21	82	79	74	60	50	47	46	60.6	309
TOT	82	76	70	57	49	46	44	58.0	1260

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	3.1	7.3	17.9	36.3	35.5	85	282
06&09	.0	.0	3.4	11.3	35.3	50.0	89	204
12&15	.0	2.1	7.0	19.0	37.0	34.9	85	284
18&21	.0	14.2	15.0	24.2	25.8	20.8	77	240
TOT	0	48	82	182	334	344	84	990

AUGUST

PERIOD: (PRIMARY) 1957-1970
(OVER-ALL) 1869-1970

AREA 0003 NE NEWFOUNDLAND COAST
49.1N 53.0W

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	41 44	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
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	3	.0	.3
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	5	.0	.5
17/19	.0	.0	.0	.0	.0	.0	.2	.2	.0	.2	.0	6	.0	.5
14/16	.0	.0	.0	.0	.0	.0	.5	.8	.7	.3	.0	26	.0	2.4
11/13	.0	.0	.0	.1	.2	1.0	2.4	.9	.3	.1	.0	54	.1	4.8
9/10	.0	.0	.0	.0	.5	1.3	2.0	.8	.4	.0	.0	52	.3	4.4
7/8	.0	.0	.0	.5	1.8	2.0	1.3	1.6	.1	.0	.0	80	.7	6.5
6	.0	.0	.1	1.2	1.4	1.5	.8	.4	.0	.0	.0	59	.5	4.9
5	.0	.0	.1	1.2	2.5	3.3	.9	.4	.0	.0	.0	93	.7	7.7
4	.0	.0	.5	1.6	3.2	1.3	.4	.0	.0	.0	.0	76	1.4	5.4
3	.0	.1	.8	3.1	2.4	1.2	.4	.1	.0	.0	.0	88	1.5	6.4
2	.0	.1	.9	3.6	3.3	1.0	.4	.0	.0	.0	.0	102	1.4	7.8
1	.0	.1	2.2	3.8	2.3	1.0	.1	.0	.0	.0	.0	104	1.6	7.8
0	.0	.3	2.1	3.4	1.7	.4	.1	.0	.0	.0	.0	88	1.0	7.0
-1	.0	.4	2.3	2.8	1.5	.3	.0	.0	.0	.0	.0	80	1.7	5.5
-2	.0	.2	1.6	1.9	.9	.3	.0	.0	.0	.0	.0	54	1.0	3.9
-3	.0	.8	1.6	1.4	.5	.1	.0	.0	.0	.0	.0	49	.4	4.1
-4	.0	.7	.9	.5	.3	.0	.0	.0	.0	.0	.0	27	.3	2.2
-5	.0	1.0	.7	.9	.4	.0	.0	.0	.0	.0	.0	33	.4	2.6
-6	.0	.5	.5	.3	.1	.0	.0	.0	.0	.0	.0	14	.0	1.3
-7/-8	.1	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	10	.0	.9
-9/-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-11/-13	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	48	163	293	251	161	103	55	18	11	1	1105	144	961
PCT	.1	4.3	14.8	26.5	22.7	14.6	9.3	5.0	1.6	1.0	.1	100.0	13.0	87.0

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	.0	.8	.0	.0	.0	.0	.8
1-2	.0	1.2	.8	.0	.0	.0	1.9
3-4	.0	.4	1.5	.0	.0	.0	1.9
5-6	.0	.0	.8	.3	.0	.0	1.1
7	.4	.0	.8	.0	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.4	.0	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.9	.0	1.3
17-19	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.4	2.8	3.8	.8	.9	.3	8.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.0	.4	.0	.0	.0	1.8
1-2	.0	.4	.5	.0	.0	.0	1.0
3-4	.0	.4	.5	.0	.0	.0	1.0
5-6	.0	.4	.1	.1	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.4	.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.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	.4	2.3	2.0	.1	.4	.1	5.4

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	.0	.0	.0	1.5
3-4	.0	.0	.8	.0	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.4	.0	.0	.0	.0	.4
8-9	.0	.4	.0	.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	.3	.0	.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	1.7	1.7	.0	.0	.0	3.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.7	.1	.0	.0	.0	3.8
1-2	.0	.0	1.1	.0	.0	.0	1.1
3-4	.0	.1	2.2	.0	.0	.0	2.3
5-6	.0	.0	1.4	.9	.0	.0	2.3
7	.0	.0	1.3	.0	.0	.0	1.3
8-9	.0	.0	.4	1.3	.0	.0	1.7
10-11	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.6	.0	.4	.0	1.1
17-19	.0	.0	.0	.1	.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	3.8	7.1	2.7	.4	.0	14.0

PERIOD: (OVER-ALL) 1963-1970

AUGUST

TABLE 18 (CONT)

AREA 0003 NE NEWFOUNDLAND COAST
49.1N 53.0W

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	1.1	.0	.0	.0	3.3	.9	1.6	.1	.0	.0	.0	2.6
1-2	.0	4.1	1.8	.0	.0	.0	5.9	.0	3.7	1.6	.0	.0	.0	5.3
3-4	.0	1.8	4.6	.0	.0	.0	6.5	.0	2.0	6.4	.9	.0	.0	9.3
5-6	.0	.0	3.1	.3	.0	.0	3.4	.0	.4	1.9	.5	.0	.0	2.9
7	.0	.0	2.4	.8	.0	.0	3.1	.0	.0	1.3	.1	.0	.0	1.4
8-9	.0	.0	.3	.9	.0	.0	1.2	.0	.0	1.0	.0	.0	.0	1.0
10-11	.0	.0	.9	.0	.0	.0	.9	.0	.4	.0	.0	.0	.0	.4
12	.0	.0	.0	.4	.0	.0	.4	.0	.4	.0	.0	.0	.0	.4
13-16	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.4	.3	.0	.0	.8	.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	15.0	2.7	.0	.0	25.9	.9	8.6	12.3	1.9	.0	.0	23.7

	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	1.8	.0	.0	.0	.0	1.8	.0	1.4	.0	.0	.0	.0	1.4	
1-2	.0	.4	.3	.0	.0	.0	.8	.0	.1	.5	.0	.0	.0	.6	
3-4	.0	1.6	.3	.0	.0	.0	1.9	.0	.4	1.0	.4	.0	.0	1.8	
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	2.6	.4	.0	.0	3.0	
7	.0	.0	1.9	.3	.0	.0	2.3	.0	.0	.5	.1	.0	.0	.6	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.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	.4	.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	3.9	3.9	.3	.0	.0	8.1	.0	1.9	4.6	1.4	.4	.0	8.4	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	3.4	12.5	1.7	.0	.0	.0	17.7	
1-2	.0	10.8	7.3	.0	.0	.0	18.1	
3-4	.0	6.9	17.2	1.3	.0	.0	25.4	
5-6	.0	.9	11.2	2.6	.0	.0	14.7	
7	.4	.4	8.2	1.3	.0	.0	10.3	
8-9	.0	.4	1.7	2.6	.0	.0	4.7	
10-11	.0	.9	1.3	.4	.0	.0	2.6	
12	.0	.4	.0	.4	.0	.0	.9	
13-16	.0	.0	1.3	.9	2.2	.0	4.3	
17-19	.0	.0	.4	.4	.0	.0	.9	
20-22	.0	.0	.0	.0	.0	.4	.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	
								232
TOT PCT	3.9	33.2	50.4	9.9	2.2	.4	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	2.2	11.5	20.7	7.6	4.0	.4	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	209	3
6-7	.0	1.3	7.0	8.8	7.0	5.6	1.8	.7	1.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	132	6
8-9	.0	.2	.4	.4	1.6	.4	.9	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	8
10-11	.0	.0	.0	.0	.0	.0	.0	.7	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	9	15
12-13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
>13	.0	.2	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	11
INDET	3.1	3.4	2.9	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	7
TOTAL	24	74	138	80	80	29	12	8	14	3	3	0	0	0	0	0	0	0	0	445	5
PCT	5.4	16.6	31.0	18.0	18.0	6.5	2.7	1.8	3.1	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1957-1970
(OVER-ALL) 1869-1970

AREA 0003 NE NEWFOUNDLAND COAST
49.2N 53.2W

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	9.1	1.1	1.7	.0	.0	.0	.0	11.8	2.3	.0	5.4	.0	.6	.0	79.9
NE	14.9	.8	3.0	.0	.0	.0	.0	18.5	.0	.0	12.2	.0	1.1	.0	68.2
E	9.9	1.9	1.6	.0	.0	.0	.0	13.4	2.5	.0	7.8	.9	1.2	.0	74.2
SE	13.1	1.1	1.1	.0	.0	.0	.0	15.4	.3	.0	10.3	.3	3.4	1.1	69.1
S	9.2	1.1	.0	.0	.0	.0	.0	10.2	1.3	.0	12.0	1.1	4.7	.0	70.7
SW	1.9	1.4	1.9	.0	.0	.0	.0	5.2	.6	.0	9.8	.0	4.0	.5	80.0
W	4.3	.6	.0	.0	.0	.0	.0	5.0	.0	.0	5.6	.0	1.3	.0	88.1
NW	2.4	1.8	.9	.0	.0	.0	.0	5.2	1.7	.0	4.8	.0	1.7	.0	86.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	4.8	.0	.0	.0	.0	4.8	.0	.0	14.3	.0	4.8	.0	76.2
TOT PCT	7.1	1.2	1.3	.0	.0	.0	.0	9.5	1.1	.0	8.6	.3	2.6	.2	77.7
TOT OBS:	1092														

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	6.2	1.0	.7	.0	.0	.0	.0	7.9	1.7	.0	8.2	.0	2.1	.3	79.8
06&09	8.3	.5	1.5	.0	.0	.0	.0	10.3	.0	.0	9.8	.0	.5	.0	79.4
12&15	6.5	1.6	1.0	.0	.0	.0	.0	9.1	.6	.0	9.4	.0	3.6	.3	76.9
18&21	7.5	1.4	2.4	.0	.0	.0	.0	11.2	1.7	.0	7.5	1.0	3.4	.0	75.3
TOT PCT	7.0	1.2	1.4	.0	.0	.0	.0	9.6	1.1	.0	8.6	.3	2.5	.2	77.7
TOT OBS:	1099														

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	4.3	9.5	9.9	.1	.0		14.5	15.4	16.0	21.8	18.8	3.8	10.1	8.5	16.1	10.8
NE	.3	3.5	2.8	1.4	.1	.0		8.2	13.7	8.8	6.5	7.4	1.9	8.6	6.5	8.2	14.2
E	.8	2.9	3.5	.2	.0	.0		7.4	11.5	9.8	4.8	5.3	5.8	6.3	5.0	8.6	5.0
SE	.7	2.1	4.2	1.0	.0	.0		7.9	13.9	10.8	7.3	6.9	3.8	6.4	9.5	8.0	3.9
S	.5	4.9	9.0	2.4	.7	.1		17.5	15.0	19.6	23.4	19.7	5.8	15.9	20.0	16.1	37.5
SW	.6	4.7	10.6	3.3	.4	.0		19.6	15.3	19.1	21.0	22.6	38.5	23.6	21.0	16.8	10.8
W	.4	2.5	5.1	1.9	.3	.2		10.4	16.4	7.6	4.8	7.2	30.8	12.9	11.5	12.5	5.8
NW	.4	2.7	6.0	2.6	.6	.0		12.2	16.6	9.1	10.5	13.0	9.6	14.2	18.0	12.6	9.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2							2.2	.0	3.3	.0	3.2	.0	2.2	.0	1.1	3.3
TOT OBS	76	311	929	189	25	3	1133		14.7	271	31	185	26	269	50	271	30
TOT PCT	6.7	27.4	48.7	16.7	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	2.0	8.9	4.1	1.5	.0		14.5	15.4	16.6	16.9	9.9	15.6
NE	1.3	4.5	1.6	.8	.0		8.2	13.7	8.5	6.8	8.3	8.0
E	1.3	4.9	1.0	.1	.0		7.4	11.5	9.3	5.3	6.1	8.2
SE	1.4	3.9	2.2	.5	.0		7.9	13.9	10.4	8.5	6.9	7.6
S	2.2	9.2	4.7	1.2	.1		17.5	15.0	20.0	14.5	16.5	18.2
SW	2.1	9.6	6.9	1.0	.0		19.6	15.3	15.7	24.5	23.2	16.2
W	1.0	5.2	3.2	.9	.2		10.4	16.4	7.3	10.1	12.4	11.8
NW	1.4	5.4	4.0	1.3	.0		12.2	16.6	9.3	12.6	14.8	12.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.2						2.2	.0	3.0	2.8	1.9	1.3
TOT OBS	170	562	315	83	3	1133		14.7	302	211	319	301
TOT PCT	15.0	49.6	27.8	7.3	.3		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1957-1970
(OVER-ALL) 1869-1970

AREA 0003 NE NEWFOUNDLAND COAST
49.2N 53.2W

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	3.0	5.0	29.5	44.7	16.6	1.3	.0	13.8	100.0	302
06&09	2.8	9.2	30.8	43.6	14.7	2.8	.0	13.9	100.0	211
12&15	1.9	5.0	24.8	47.0	17.6	3.4	.3	15.4	100.0	319
18&21	1.3	3.0	29.9	90.5	17.3	1.3	.7	15.3	100.0	301
TOT	29	91	311	529	189	25	3	14.7		1133
PCT	2.2	6.5	27.4	46.7	16.7	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	2.3	1.6	3.2	8.1		6.1
NE	1.6	.4	1.4	4.9		6.1
E	.7	.8	1.8	3.9		6.3
SE	1.7	.8	.9	4.2		5.7
S	4.0	1.9	4.1	7.4		5.5
SW	7.6	2.1	4.7	5.0		4.7
W	3.6	2.0	2.5	2.2		4.2
NW	2.2	1.8	4.0	4.4		5.5
VAR	.0	.0	.0	.0		.0
CALM	1.0	.0	.4	.6		3.9
TOT OBS	250	115	233	411	1009	5.3
TOT PCT	24.8	11.4	23.1	40.7	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	.9	.0	.3	3.2	3.2	.9	.4	.1	.9	*	9.4	
NE	.7	.0	.4	1.8	1.4	.5	.1	.0	.1	.1	3.1	
E	.5	.0	.2	1.2	1.7	.7	.1	.0	.4	.1	2.9	
SE	.6	.0	.3	1.4	1.2	.5	.1	.1	*	.1	3.2	
S	1.5	.0	.6	1.5	2.2	1.0	.4	.2	.7	.4	8.7	
SW	1.0	*	.2	1.5	1.6	1.0	.1	.0	1.5	.1	12.3	
W	.5	.1	.4	.8	1.0	.4	.1	.1	.4	.1	6.4	
NW	.5	.1	.1	2.0	3.0	1.1	.2	.1	.4	.2	4.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.1	.4	.1	.0	.0	.0	.2	1.1	
TOT OBS	66	9	26	136	159	64	16	6	46	14	474	1009
TOT PCT	6.5	.9	2.6	13.5	15.8	6.3	1.6	.6	4.6	1.4	47.0	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	5.0	5.7	5.7	5.8	5.8	5.8	5.8	5.8
* OR >5000	5.8	6.3	6.3	6.4	6.4	6.4	6.4	6.4
* OR >3500	6.9	7.7	7.8	7.9	7.9	7.9	7.9	7.9
* OR >2000	11.4	14.0	14.2	14.3	14.3	14.3	14.3	14.3
* OR >1000	21.1	28.2	29.4	29.8	30.0	30.0	30.0	30.0
* OR >600	27.4	39.3	42.2	43.3	43.5	43.6	43.6	43.6
* OR >300	27.9	40.9	44.2	45.5	45.8	44.1	46.1	46.1
* OR >150	28.0	41.0	44.3	45.7	46.0	46.3	46.3	46.3
* OR > 0	28.0	41.1	45.6	48.0	49.4	51.0	52.9	53.0
TOTAL	283	415	461	485	499	515	534	535

TOTAL NUMBER OF OBS: 1010 PCT FREQ NH <5/8: 47.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
18.7	9.9	7.6	6.7	3.8	5.0	8.8	8.6	24.5	6.4	1029

SEPTEMBER

PERIOD: (PRIMARY) 1957-1970
(OVER-ALL) 1869-1970

AREA 0003 NE NEWFOUNDLAND COAST
49.2N 53.2W

TAB E 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	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	.6	
<1/2	NO PCP	.4	.3	.3	.2	1.1	.4	.3	.2	.0	.0	3.2	
	TOT %	.6	.4	.5	.3	1.1	.4	.3	.2	.0	.0	3.8	
	PCP	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.3	
1/2<1	NO PCP	*	.1	.0	.2	.4	.1	.0	.2	.0	.1	1.2	
	TOT %	*	.2	.0	.3	.5	.1	.0	.2	.0	.1	1.5	
	PCP	.2	.2	.1	.0	.1	.2	.1	.0	.0	.0	.8	
1<2	NO PCP	.2	.6	.3	.1	.1	.3	.2	.1	.0	.1	1.9	
	TOT %	.3	.8	.4	.1	.1	.5	.3	.1	.0	.1	2.8	
	PCP	.5	.6	.4	.5	.4	.1	.2	.3	.0	.1	3.0	
2<5	NO PCP	.2	.4	.2	.6	.3	1.1	.2	.3	.0	.2	3.4	
	TOT %	.7	.9	.6	1.1	.8	1.2	.4	.6	.0	.3	6.4	
	PCP	.7	.5	.2	.5	.8	.4	.2	.1	.0	.0	3.5	
5<10	NO PCP	3.0	1.0	1.3	1.4	2.4	2.8	1.3	2.8	.0	.1	16.1	
	TOT %	3.7	1.5	1.5	1.9	3.2	3.2	1.5	3.0	.0	.1	19.6	
	PCP	.2	*	.1	.1	.3	.3	.1	.2	.0	.0	1.4	
10+	NO PCP	9.3	4.5	4.3	4.3	10.8	13.8	8.1	8.1	.0	1.4	64.6	
	TOT %	9.5	4.5	4.5	4.4	11.1	14.1	8.2	8.3	.0	1.4	66.0	
	TOT OBS												1089
	TOT PCT	14.9	8.3	7.4	8.0	17.0	19.4	10.7	12.4	.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
	0-3	.0	.0	.1	*	.0	.1	.0	.0	.0	.0	.3	
<1/2	4-10	.4	.2	.2	.2	.4	.1	.1	.1	.0		1.8	
	11-21	.2	.1	.1	*	.8	.2	.2	.0	.0		1.6	
	22+	.0	.0	.0	.0	*	*	.0	.1	.0		.2	
	TOT %	.6	.4	.4	.3	1.2	.5	.2	.2	.0	.0	3.9	
	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.2	
1/2<1	4-10	.0	.1	.0	.0	.1	.1	.0	.1	.0		.4	
	11-21	*	.0	.0	.3	.2	.0	.0	.1	.0		.6	
	22+	.0	.1	.0	.0	.2	.0	.0	.0	.0		.3	
	TOT %	*	.2	.0	.3	.5	.1	.0	.2	.0	.1	1.4	
	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.2	
1<2	4-10	.1	.2	.3	.1	.0	.1	.0	.0	.0		.8	
	11-21	.2	.5	.1	.0	.1	.2	.2	*	.0		1.3	
	22+	.1	.1	.0	.0	.1	*	.1	.1	.0		.4	
	TOT %	.3	.8	.4	.1	.1	.4	.3	.1	.0	.1	2.7	
	0-3	.1	.0	.0	.1	.0	.0	.0	.0	.0	.3	.4	
2<5	4-10	.0	.2	.2	.3	.0	.1	.2	.1	.		1.1	
	11-21	.2	.2	.4	.5	.5	.8	*	.4	.0		3.0	
	22+	.4	.5	.0	.2	.3	.3	.1	.1	.0		1.8	
	TOT %	.7	.9	.6	1.0	.8	1.2	.4	.6	.0	.3	6.3	
	0-3	.1	.1	.0	.0	.0	.1	.0	.1	.0	.1	.4	
5<10	4-10	.4	.4	.7	.3	.9	.9	.5	.4	.0		4.5	
	11-21	1.7	.6	.7	1.2	1.7	1.4	.5	1.2	.0		9.0	
	22+	1.4	.3	*	.3	.6	.9	.5	1.3	.0		5.3	
	TOT %	3.6	1.5	1.5	1.8	3.2	3.2	1.5	2.9	.0	.1	19.2	
	0-3	.5	.2	.6	.6	.4	.4	.4	.2	.0	1.6	5.1	
10+	4-10	3.3	2.4	1.5	1.2	3.3	3.1	1.7	2.1	.0		18.6	
	11-21	3.4	1.4	2.3	2.2	5.8	7.9	4.2	4.4	.0		31.5	
	22+	2.2	.6	.2	.5	1.9	2.5	1.8	1.7	.0		11.4	
	TOT %	9.4	4.6	4.6	4.5	11.5	13.9	8.1	8.4	.0	1.6	66.6	
	TOT OBS												1116
	TOT PCT	14.6	9.3	7.5	8.1	17.3	19.3	10.5	12.3	.0	2.2	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1957-1970
(OVER-ALL) 1869-1970

AREA 0003 NE NEWFOUNDLAND COAST
49.2N 53.2W

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	6.9	.4	2.7	13.1	15.0	4.6	1.5	1.2	5.0	.8	51.2	48.8	260
06&09	12.4	.5	3.1	13.9	8.2	8.8	2.6	.0	5.7	1.0	56.2	43.8	194
12&15	4.3	.0	2.2	12.5	19.4	7.2	.4	.4	3.9	2.5	52.7	47.3	279
18&21	4.6	.0	2.5	14.4	17.5	5.6	2.1	.7	3.9	1.1	52.3	47.7	285
TOT	67	2	26	137	159	65	16	6	46	14	538	480	1018
PCT	6.6	.2	2.6	13.5	15.6	6.4	1.6	.6	4.5	1.4	52.8	47.2	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	3.7	2.0	1.3	5.0	19.4	68.6	299
06&09	4.8	1.9	2.9	7.7	18.8	63.9	208
12&15	3.8	1.6	3.8	6.3	18.9	65.9	317
18&21	4.0	.3	3.3	6.4	19.1	66.9	299
TOT	45	16	31	70	214	747	1123
PCT	4.0	1.4	2.8	6.2	19.1	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
00&03	7.0	10.1	24.1	27.6	48.2	257
06&09	12.4	16.6	33.7	24.4	42.0	193
12&15	4.3	7.2	22.7	32.1	45.1	277
18&21	4.6	7.8	26.1	27.6	46.3	283
TOT	67	100	264	285	461	1010
PCT	6.6	9.9	26.1	28.2	45.6	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	.1	.0	.0	.0	.0	.0	1	.1
75/79	.0	.1	.2	.0	.0	.2	.1	.0	6	.6
70/74	.0	.1	.4	.2	.3	.1	.1	.0	12	1.2
65/69	.0	.0	.2	.5	1.9	1.0	.4	.1	40	4.1
60/64	.0	.1	.5	.9	2.2	2.6	2.3	1.9	101	10.4
55/59	.0	.1	.4	1.0	2.9	5.6	7.5	6.6	234	24.2
50/54	.0	.0	.0	.9	3.3	6.1	10.5	12.3	321	33.2
45/49	.0	.0	.0	.2	2.7	3.2	8.5	6.9	208	21.5
40/44	.0	.0	.1	.0	.3	1.2	2.0	.8	42	4.3
35/39	.0	.0	.0	.0	.0	.1	.1	.1	3	.3
TOTAL	0	4	18	37	131	195	305	278	968	100.0
PCT	.0	.4	1.9	3.8	13.5	20.1	31.5	28.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
.0	.0	.0	.0	.2	.2	.3	.0	.0	.0
.0	.0	.0	.0	.5	.8	.0	.0	.0	.0
.3	.2	.0	.0	1.5	1.7	.4	.1	.0	.0
.7	.3	.6	.6	2.7	3.8	1.0	.5	.0	.2
1.8	1.2	1.9	2.5	5.3	5.2	2.8	2.7	.0	.7
4.0	3.2	3.0	3.9	5.8	5.1	3.6	3.9	.0	.5
6.4	2.8	1.6	.9	1.6	1.5	2.0	4.0	.0	.5
1.2	.2	.1	.1	.3	.4	.4	1.5	.0	.1
.2	.0	.0	.0	.0	.0	.0	.2	.0	.0
14.7	7.9	7.2	8.1	17.9	18.8	10.5	12.9	.0	2.1

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	69	68	64	52	44	42	40	52.7	306
06&09	76	66	61	51	44	41	39	51.7	212
12&15	71	66	63	53	46	41	38	53.1	318
18&21	80	76	70	55	46	43	39	56.0	300
TOT	80	71	65	53	45	41	38	53.5	1136

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.7	9.9	21.8	34.4	31.3	83	262
06&09	.0	1.1	4.4	16.0	38.1	40.3	86	181
12&15	.0	2.2	17.8	22.7	30.5	26.8	81	269
18&21	.0	16.9	18.8	18.8	25.3	20.3	75	261
TOT	0	59	131	196	307	280	81	973

PERIOD: (PRIMARY) 1957-1970
(OVER-ALL) 1869-1970

AREA 0003 NE NEWFOUNDLAND COAST
49.2N 53.2W

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	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	2	.0	.2
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	5	.0	.5
17/19	.0	.0	.0	.0	.1	.0	.0	.0	.4	.4	.0	9	.0	.9
14/16	.0	.0	.0	.0	.0	.0	.4	.8	.5	.1	.0	18	.0	1.7
11/13	.0	.0	.0	.0	.1	.1	.7	1.0	.2	.0	.0	21	.1	1.9
9/10	.0	.0	.1	.1	.0	1.2	1.4	1.0	.0	.0	.0	38	.3	3.4
7/8	.0	.0	.0	.5	.6	2.7	1.8	.5	.0	.0	.0	63	.3	5.8
6	.0	.0	.0	.1	1.0	1.1	1.1	.1	.1	.0	.0	35	.2	3.2
5	.0	.0	.0	.6	2.0	1.5	1.0	.2	.0	.0	.0	55	.5	4.8
4	.0	.0	.1	1.3	2.5	1.4	.4	.0	.0	.0	.0	59	1.0	4.7
3	.0	.0	.2	.9	2.7	1.8	.2	.0	.0	.0	.0	60	.6	5.2
2	.0	.1	.4	2.3	2.9	1.4	.1	.1	.0	.0	.0	76	.4	6.9
1	.0	.1	.5	3.2	2.6	1.0	.4	.0	.0	.0	.0	80	1.2	6.6
0	.0	.0	.8	3.8	3.2	.8	.0	.0	.0	.0	.0	88	.9	7.6
-1	.0	.3	1.4	3.6	3.1	.9	.1	.0	.0	.0	.0	97	.8	8.6
-2	.0	.2	1.8	2.3	2.0	.1	.0	.0	.0	.0	.0	67	.7	5.8
-3	.0	.2	2.4	2.2	1.4	.1	.0	.0	.0	.0	.0	65	.5	5.8
-4	.0	.3	2.6	2.3	.2	.0	.0	.0	.0	.0	.0	56	.5	4.9
-5	.0	.2	1.6	1.8	.5	.0	.0	.0	.0	.0	.0	43	.0	4.1
-6	.0	.7	1.4	1.3	.2	.0	.0	.0	.0	.0	.0	36	.1	3.4
-7/-8	.0	1.1	1.5	.9	.1	.0	.0	.0	.0	.0	.0	37	.0	3.6
-9/-10	.1	.7	.6	.4	.1	.0	.0	.0	.0	.0	.0	19	.2	1.6
-11/-13	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	8	.1	.7
TOTAL	4		101		261		77		14		2		84	953
		43		284		146		37		8		1037		
PCT	.4	4.1	15.5	27.4	25.2	14.1	7.4	3.6	1.4	.8	.2	100.0	8.1	91.9

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	1.0	2.8	.0	.0	.0	.0	3.9
1-2	.0	1.0	1.2	.0	.0	.0	2.2
3-4	.0	.6	2.1	.6	.0	.0	3.3
5-6	.0	1.2	1.6	1.0	.0	.0	3.9
7	.0	.0	.4	.9	.0	.0	1.3
8-9	.0	.0	1.0	.6	.0	.0	1.6
10-11	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.6	.0	.0	.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	1.0	5.7	7.4	3.6	.0	.0	17.7

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	.6	.7	.0	.0	.0	1.3
3-4	.0	.0	1.2	.0	.0	.0	1.2
5-6	.0	.6	.0	.0	.0	.0	.6
7	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.1	1.2	.0	.0	1.3
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	.1	1.8	3.0	1.3	.0	.0	6.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.0	.0	.0	.0	.0	.6
1-2	.0	1.5	.9	.0	.0	.0	2.4
3-4	.0	1.2	3.1	.0	.0	.0	4.3
5-6	.0	.6	1.2	.0	.0	.0	1.8
7	.0	.0	1.2	.0	.0	.0	1.2
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	.6	3.3	6.4	.4	.0	.0	10.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	.4	.4	.0	.0	.0	.9
3-4	.0	.0	.7	.0	.0	.0	.7
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	1.8	.6	.0	.0	2.4
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.6	.0	.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	.0	1.2	4.0	.7	.0	.0	6.0

PERIOD: (OVER-ALL) 1963-1970

SEPTEMBER

TABLE 18 (CONT)

AREA 0009 NE NEWFOUNDLAND COAST
49.2N 53.2W

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	1.0	.4	.0	.0	.0	1.5
1-2	.0	1.5	3.1	.0	.0	.0	4.6
3-4	.0	1.2	3.9	.0	.0	.0	5.1
5-6	.0	1.2	4.2	.0	.0	.0	5.4
7	.0	.0	.6	.4	.6	.0	1.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.6	.6	.0	.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	.0	4.9	12.8	1.6	.6	.0	19.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.1	.0	.0	.0	.1
1-2	.6	1.5	1.9	.0	.0	.0	4.0
3-4	.0	1.2	1.5	.0	.0	.0	2.7
5-6	.0	.0	2.2	.1	.0	.0	2.4
7	.0	.0	1.8	.7	.0	.0	2.5
8-9	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.6	2.4	.0	.0	3.0
12	.0	.0	.6	.6	.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	.6	2.7	9.4	3.9	.0	.0	16.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.6	.0	.0	.0	.0	1.2
1-2	.0	1.6	.0	.0	.0	.0	1.6
3-4	.0	.0	1.2	.0	.0	.0	1.2
5-6	.0	.0	.9	1.6	.0	.0	2.5
7	.0	.0	.0	.0	.6	.0	.6
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	.4	.0	.6	.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	2.2	2.5	2.2	1.2	.0	8.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.7	.0	.0	.0	.0	.7	
1-2	.0	.1	1.2	.0	.0	.0	1.3	
3-4	.0	.6	.0	.0	.0	.0	.6	
5-6	.0	.0	1.9	.7	.0	.0	2.7	
7	.0	.0	1.2	.3	.0	.0	1.5	
8-9	.0	.0	.0	.0	.6	.0	.6	
10-11	.0	.0	.0	1.2	.0	.0	1.2	
12	.0	.0	.0	1.2	.0	.0	1.2	
13-16	.0	.0	.7	.6	.6	.0	1.9	
17-19	.0	.0	.0	.6	.0	.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	1.5	5.1	4.6	1.2	.0	12.4	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	3.6	6.5	.6	.0	.0	.0	10.7	
1-2	1.2	8.3	9.5	.0	.0	.0	19.0	
3-4	.0	4.8	13.7	.6	.0	.0	19.0	
5-6	.0	3.6	12.5	3.6	.0	.0	19.6	
7	.0	.0	7.7	3.0	1.2	.0	11.9	
8-9	.0	.0	1.8	1.8	.6	.0	4.2	
10-11	.0	.0	2.4	5.4	.0	.0	7.7	
12	.0	.0	.6	3.0	.0	.0	3.6	
13-16	.0	.0	1.2	.6	1.2	.0	3.0	
17-19	.0	.0	.6	.6	.0	.0	1.2	
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	4.8	23.2	50.6	18.5	3.0	.0	100.0	168

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	8.2	13.7	9.3	4.4	.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	4
6-7	.0	1.1	3.3	4.1	9.3	4.1	2.7	1.1	.8	.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	100	7
8-9	.0	.0	1.1	3.3	3.3	1.6	3.6	1.1	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	8
10-11	.0	.3	.0	.5	.5	.8	2.2	.5	.8	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	10
12-13	.0	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	10
>13	.0	.0	.0	.0	.0	.5	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	10
INDET	.8	2.7	4.1	.8	1.1	.5	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	4
TOTAL	8	45	81	66	68	31	33	14	11	6	0	1	0	0	0	0	0	0	0	364	6
PCT	2.2	12.4	22.3	18.1	18.7	8.5	9.1	3.8	3.0	1.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1954-1970
(OVER-ALL) 1890-1970

AREA 0003 NE NEWFOUNDLAND COAST
49.1N 53.1W

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	6.3	3.3	.0	1.4	.0	.0	15.5	2.0	.8	4.7	.6	.0	.0		76.4
NE	10.9	1.8	4.1	.0	3.6	.0	.0	20.4	2.3	.0	9.0	.0	4.1	.0		64.3
E	19.0	8.6	6.5	.0	5.6	.0	.0	37.9	3.4	.0	11.6	1.7	3.0	.0		42.2
SE	20.5	2.0	5.3	.0	.0	.0	.0	27.8	.9	.0	8.7	.0	1.1	.9		60.6
S	12.8	2.1	.6	.0	.0	.0	.0	15.6	1.3	.0	11.9	.0	3.7	.0		67.6
SW	7.2	1.7	.6	.0	.0	.0	.0	9.5	.9	.0	3.6	.0	3.7	.0		82.2
W	5.1	1.4	1.4	.0	1.8	.0	.0	9.6	.8	.0	.6	.0	.8	.0		88.3
NW	5.5	3.1	2.3	.0	.4	.0	1.2	12.0	2.5	.0	9.2	.1	.0	.0		76.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	9.1	.0	9.1	.0	.0	.0	.0	18.2	.0	.0	36.4	.0	9.1	.0		36.4
TOT PCT	9.6	2.9	2.4	.0	1.0	.0	.2	15.8	1.6	.1	7.2	.2	2.0	.1		73.0
TOT OBS:	1029															

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	14.0	3.3	4.1	.0	1.5	.0	.0	22.5	1.1	.0	6.3	.0	2.2		.0	67.9
06&09	9.6	2.8	2.3	.0	1.4	.0	.5	16.5	1.8	.5	7.8	.0	.9		.0	72.3
12&15	8.6	2.6	.7	.0	.7	.0	.0	12.3	1.0	.0	7.3	.7	2.0		.3	76.5
18&21	6.1	2.9	3.3	.0	.4	.0	.4	12.7	2.5	.0	7.4	.0	2.9		.0	74.6
TOT PCT	9.7	2.9	2.5	.0	1.0	.0	.2	15.9	1.5	.1	7.1	.2	2.0		.1	72.9
TOT OBS:	1035															

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	3.0	5.6	2.9	.2	.1		12.0	16.8	11.2	14.5	14.5	14.5	9.8	13.6	11.3	19.0
NE	.4	1.6	1.8	1.4	.1	.0		5.3	15.7	4.8	4.8	6.1	.0	5.4	5.0	5.2	10.0
E	.3	1.8	2.3	1.0	.2	.0		5.6	15.1	6.7	8.1	4.7	6.5	5.9	.0	5.4	8.0
SE	.3	2.3	5.1	2.8	.4	.1		10.9	17.5	14.2	14.5	8.5	2.4	10.6	8.2	10.8	10.0
S	.3	3.5	7.6	3.4	.4	.0		15.2	16.8	16.2	14.5	14.0	18.5	14.6	13.2	16.3	12.0
SW	.7	4.3	9.8	5.1	.4	.2		20.4	17.0	18.9	16.1	21.0	20.2	23.0	26.8	18.3	14.0
W	.1	2.3	6.3	3.4	.9	.1		13.1	19.2	12.0	11.3	12.0	20.2	14.4	16.4	13.1	4.0
NW	.1	3.1	7.8	4.2	1.3	*		16.5	18.9	13.2	16.1	18.1	17.7	16.2	15.0	18.7	23.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1							1.1	.0	2.8	.0	1.0	.0	.0	1.8	.9	.0
TOT OBS	37	236	499	261	42	5	1080		17.2	252	31	193	31	262	55	231	25
TOT PCT	3.4	21.9	46.2	24.2	3.9	.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	1.2	4.7	4.6	1.3	.2		12.0	16.8	11.6	14.5	10.5	12.0
NE	.9	2.1	1.7	.6	.0		5.3	15.7	4.8	5.2	5.4	5.7
E	.7	2.8	1.5	.5	.1		5.6	15.1	6.9	4.9	4.9	5.7
SE	.9	4.4	4.3	1.2	.1		10.9	17.5	14.2	7.7	10.2	10.7
S	1.7	6.5	5.5	1.3	.3		15.2	16.8	16.0	14.6	14.4	15.9
SW	2.3	7.4	9.1	1.3	.3		20.4	17.0	18.6	20.9	23.7	17.9
W	.8	4.9	4.5	2.7	.2		13.1	19.2	11.9	13.2	14.7	12.2
NW	.8	7.0	5.2	3.2	.2		16.5	18.9	13.5	18.1	16.0	19.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.1						1.1	.0	2.5	.9	.3	.8
TOT OBS	113	430	392	130	15	1080		17.2	283	224	317	256
TOT PCT	10.5	39.8	36.3	12.0	1.4		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1954-1970
(OVER-ALL) 1890-1970

AREA 0003 NE NEWFOUNDLAND COAST
49.1N 53.1W

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	2.5	2.1	26.9	44.5	20.8	2.8	.4	15.8	100.0	283
06&09	.9	1.8	19.6	52.2	22.3	1.8	1.3	17.0	100.0	224
12&15	.3	3.8	21.8	42.0	25.9	6.3	.0	18.0	100.0	317
18&21	.8	1.2	18.4	48.0	27.3	3.9	.4	18.1	100.0	256
TOT	12	25	236	499	261	42	5	17.2		1080
PCT	1.1	2.3	21.9	46.2	24.2	3.9	.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	1.5	1.2	4.0	5.1		6.0
NE	.7	.1	.8	4.4		6.8
E	.3	.6	.7	4.0		6.9
SE	1.0	.5	1.0	7.9		6.9
S	2.3	1.1	3.6	7.9		6.1
SW	6.1	2.2	5.7	6.3		4.9
W	3.6	1.8	3.5	4.6		5.0
NW	2.8	1.6	5.4	6.6		5.7
VAR	.0	.0	.0	.0		.0
CALM	.3	.0	.1	.6		5.6
TOT OBS	174	84	229	439	926	5.8
TOT PCT	18.8	9.1	24.7	47.4	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	.7	.0	.1	2.7	2.6	1.3	.3	.0	.3	.2	3.6	
NE	.7	.0	*	2.0	.9	.4	.3	.2	.2	.1	1.3	
E	.5	.2	.2	1.5	1.1	.4	.1	.1	.2	.0	1.4	
SE	1.5	.3	.6	2.4	1.2	.8	.3	.0	.7	.2	2.5	
S	2.2	.0	.2	2.7	1.4	1.1	.2	.0	.9	.3	5.7	
SW	.9	.1	.0	2.0	2.8	.9	.3	.5	1.1	.3	11.3	
W	.6	.0	.0	2.2	1.9	1.9	.2	.0	.0	.1	6.7	
NW	1.5	.0	.0	3.2	3.2	2.1	.3	.1	.1	.1	5.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.1	.0	.1	.1	.0	.0	.0	.1	.0	.4	
TOT OBS	81	7	10	173	141	82	18	8	34	12	360	926
TOT PCT	8.7	.8	1.1	18.7	15.2	8.9	1.9	.9	3.7	1.3	38.9	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	3.6	4.9	5.0	5.0	5.0	5.0	5.0	5.0
* OR >5000	4.1	5.7	5.9	5.9	5.9	5.9	5.9	5.9
* OR >3500	5.5	7.8	7.9	7.9	7.9	7.9	7.9	7.9
* OR >2000	11.1	16.4	16.6	16.8	16.8	16.8	16.8	16.8
* OR >1000	19.6	29.9	31.2	31.6	31.9	32.1	32.1	32.1
* OR >600	29.9	45.1	48.8	49.8	50.4	50.7	50.8	50.8
* OR >300	30.4	46.0	49.7	50.8	51.4	51.7	51.8	51.8
* OR >150	30.4	46.2	49.9	51.0	51.6	52.1	52.5	52.6
* OR > 0	30.5	47.1	52.4	54.9	56.2	58.8	60.8	61.1
TOTAL	281	434	483	506	518	542	561	563

TOTAL NUMBER OF OBS: 922 PCT FREQ NH <5/8: 38.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
11.8	7.3	8.8	6.9	4.1	5.3	8.9	10.0	28.4	8.5	946

OCTOBER

PERIOD: (PRIMARY) 1954-1970
(OVER-ALL) 1890-1970

TABLE 8

AREA 0003 NE NEWFOUNDLAND COAST
49.1N 53.1W

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	.1	*	.2	.3	.1	.0	.1	.0	.0	.0	.8	
<1/2	NO PCP	.1	.2	.3	.5	1.2	.6	.0	.9	.0	.4	4.2	
	TOT %	.2	.3	.4	.8	1.2	.6	.1	.9	.0	.4	5.0	
	PCP	.0	.1	.2	.2	.1	.0	.1	.3	.0	.0	1.0	
1/2<1	NO PCP	.1	.1	.2	.2	.2	.0	.0	.1	.0	.0	1.0	
	TOT %	.1	.2	.4	.4	.3	.0	.1	.4	.0	.0	2.0	
	PCP	.1	.2	.4	.6	.2	.1	.1	.3	.0	.0	2.0	
1<2	NO PCP	.2	.1	.2	.1	.4	.1	.0	.2	.0	.0	1.5	
	TOT %	.4	.3	.6	.7	.6	.3	.1	.5	.0	.0	3.4	
	PCP	.4	.4	.6	.6	.8	.3	.2	.3	.0	.1	3.7	
2<5	NO PCP	.2	.0	.4	.6	.4	.3	.0	.2	.0	.0	2.1	
	TOT %	.6	.4	1.0	1.2	1.2	.6	.2	.5	.0	.1	5.8	
	PCP	1.0	.3	.7	1.2	.9	1.1	.4	.8	.0	.1	6.5	
5<10	NO PCP	3.1	1.3	.8	1.9	3.2	2.9	2.7	3.4	.0	.1	19.3	
	TOT %	4.0	1.7	1.5	3.0	4.1	4.0	3.0	4.2	.0	.2	25.8	
	PCP	.3	*	.1	.3	.3	.5	.3	.3	.0	.0	2.1	
10+	NO PCP	6.3	2.5	1.6	4.6	7.2	14.9	8.6	9.9	.0	.4	56.0	
	TOT %	6.6	2.5	1.7	4.9	7.5	15.4	8.9	10.2	.0	.4	58.1	
	TOT OBS												1021
	TOT PCT	12.0	5.4	5.6	11.0	15.0	20.8	12.5	16.7	.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
	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.4	.6	
<1/2	4-10	.1	.2	.1	.2	.3	.0	.0	.2	.0		1.0	
	11-21	.1	*	.2	.4	.9	.4	.0	.6	.0		2.6	
	22+	.1	*	.0	.2	.1	.1	.1	.1	.0		.8	
	TOT %	.2	.3	.4	.8	1.3	.5	.1	.9	.0	.4	4.9	
	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	11-21	.1	.2	.1	.2	.1	.0	.0	.1	.0		.9	
	22+	.0	.0	.2	.2	.3	.0	.1	.3	.0		1.0	
	TOT %	.1	.2	.4	.4	.5	.0	.1	.4	.0	.0	2.1	
	0-3	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
1<2	4-10	.1	*	.2	.2	.3	.0	.0	.0	.0		.8	
	11-21	.2	.2	.1	.1	.2	.1	*	.3	.0		1.3	
	22+	.1	.1	.3	.3	*	.1	.1	.1	.0		1.1	
	TOT %	.4	.3	.5	.6	.6	.3	.1	.5	.0	.0	3.3	
	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.2	
2<5	4-10	.1	*	.2	*	.1	.2	.1	.3	.0		1.0	
	11-21	.3	.3	.6	.3	.3	.2	.0	.1	.0		2.1	
	22+	.2	.1	.2	.8	.6	.1	.2	.1	.0		2.3	
	TOT %	.5	.4	1.0	1.1	1.1	.5	.2	.5	.0	.1	5.6	
	0-3	.0	.2	.0	.0	.0	.1	.0	.0	.0	.2	.5	
5<10	4-10	.8	.6	.4	.4	.7	.5	.4	.1	.0		4.2	
	11-21	1.8	.5	.4	1.8	2.1	2.2	1.3	2.4	.0		12.5	
	22+	1.3	.3	.5	.7	1.1	1.1	1.2	1.5	.0		7.8	
	TOT %	3.9	1.6	1.4	2.9	4.0	3.9	2.9	4.0	.0	.2	24.9	
	0-3	.3	.2	.0	.3	.1	.6	.1	.1	.0	.4	2.0	
10+	4-10	2.1	.8	.9	1.4	2.0	3.6	1.9	2.5	.0		15.0	
	11-21	3.2	.6	.9	2.2	3.5	6.5	4.8	4.4	.0		26.2	
	22+	1.4	1.0	.1	1.0	1.7	4.5	2.8	3.5	.0		16.0	
	TOT %	7.0	2.6	1.9	4.9	7.3	15.1	9.6	10.5	.0	.4	59.2	
	TOT OBS												1057
	TOT PCT	12.2	5.3	5.7	10.8	14.8	20.3	13.1	16.8	.0	1.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1954-1970
(OVER-ALL) 1890-1970

AREA 0003 NE NEWFOUNDLAND COAST
49.1N 53.1W

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	12.7	.4	1.7	16.2	14.0	6.1	1.7	.0	2.6	1.3	56.8	43.2	229
06&09	10.4	.5	.0	18.4	16.9	4.5	2.5	1.0	4.5	1.0	59.7	40.3	201
12&15	5.3	.8	1.5	19.2	11.7	13.6	2.3	1.9	4.5	1.1	61.9	38.1	265
18&21	7.0	1.2	.8	19.8	18.2	9.9	1.7	.8	2.9	1.7	64.0	36.0	242
TOT	81	7	10	173	141	83	19	9	34	12	569	368	937
PCT	8.6	.7	1.1	18.5	15.0	8.9	2.0	1.0	3.6	1.3	60.7	39.3	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	4.3	2.1	4.6	6.4	28.2	54.3	280
06&09	4.5	1.8	3.6	7.3	30.0	52.7	220
12&15	4.8	2.3	1.9	3.9	23.9	63.2	310
18&21	5.9	2.0	3.1	5.1	18.0	65.9	255
TOT	52	22	35	59	265	632	1065
PCT	4.9	2.1	3.3	5.5	24.9	59.3	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 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	13.2	15.9	33.5	29.8	42.7	227
06&09	10.3	11.9	32.0	29.9	38.1	194
12&15	4.6	8.4	29.1	33.3	37.5	261
18&21	7.1	10.8	33.3	32.1	34.6	240
TOT	79	107	294	276	352	922
PCT	8.6	11.6	31.9	29.9	38.2	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
70/74	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
65/69	.0	.0	.0	.1	.2	.1	.2	.3	9	1.0
60/64	.0	.0	.2	.2	.3	.6	1.0	.3	24	2.7
55/59	.0	.0	.3	.7	.5	1.0	.8	1.7	44	5.0
50/54	.0	.1	.3	1.1	1.8	1.9	4.4	6.0	139	15.7
45/49	.0	.0	.2	.9	3.2	6.4	9.2	11.6	280	31.5
40/44	.0	.0	.2	1.7	3.4	8.2	7.8	8.3	263	29.6
35/39	.0	.0	.0	.0	1.1	3.7	3.9	3.9	113	12.7
30/34	.0	.0	.0	.1	.1	.1	.6	.8	15	1.7
TOTAL	0	1	12	43	94	197	248	293	888	100.0
PCT	.0	.1	1.4	4.8	10.6	22.2	27.9	33.0		

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	.4	.5	.1	.0	.0	.0
.0	.0	.0	.1	1.0	.8	.2	.5	.0	.1
.1	*	.2	.5	1.3	2.2	.4	.2	.0	.0
.8	.2	.7	2.2	3.6	4.9	1.6	1.5	.0	.2
2.4	2.0	1.9	4.5	5.4	6.4	4.4	4.6	.0	.1
5.0	2.3	2.3	2.6	1.7	4.6	4.4	6.6	.0	.2
3.4	.8	.9	.8	.5	1.5	1.2	3.7	.0	.0
.4	.3	.0	.0	.2	.0	.5	.3	.0	.0
12.1	5.5	5.9	10.7	14.0	21.0	12.8	17.3	.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	67	61	55	45	37	34	33	45.4	282
06&09	66	60	54	44	36	33	32	44.1	225
12&15	70	65	57	45	37	34	31	45.8	316
18&21	70	67	60	46	39	36	30	46.9	258
TOT	70	64	57	45	37	34	30	45.6	1081

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	3.5	10.0	20.9	29.6	36.1	84	230
06&09	.0	2.7	7.5	17.1	32.6	40.1	85	187
12&15	.0	3.8	10.0	26.1	26.8	33.3	83	261
18&21	.0	15.3	14.4	22.8	23.7	23.7	77	215
TOT	0	56	94	197	250	296	82	893

OCTOBER

PERIOD: (PRIMARY) 1954-1970
(OVER-ALL) 1890-1970

AREA 0003 NE NEWFOUNDLAND COAST
49.1N 53.1W

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	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	2	.0	.2
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.1	10	.1	1.0
11/13	.0	.0	.0	.0	.0	.0	.1	.5	.3	.0	.0	9	.0	1.0
9/10	.0	.0	.0	.0	.1	.1	.1	1.1	.0	.1	.0	14	.1	1.4
7/8	.0	.0	.0	.0	.5	1.1	1.5	.5	.2	.1	.0	37	.4	3.5
6	.0	.0	.0	.2	.8	1.0	.5	.1	.0	.0	.0	25	.2	2.4
5	.0	.0	.0	.0	.8	1.2	1.3	.1	.0	.0	.0	32	.3	3.1
4	.0	.0	.0	.6	1.1	2.1	1.1	.3	.0	.0	.0	49	.5	4.7
3	.0	.0	.3	1.4	2.3	1.9	.5	.1	.0	.0	.0	62	1.2	5.4
2	.0	.0	.4	1.5	2.4	2.9	.1	.3	.0	.0	.0	72	.8	6.8
1	.0	.0	.7	2.6	3.8	2.4	.0	.0	.0	.0	.0	91	.5	9.1
0	.0	.1	.8	1.7	4.2	1.8	.4	.0	.0	.0	.0	86	.6	8.5
-1	.0	.2	.7	1.7	2.9	.5	.2	.0	.0	.0	.0	59	1.0	5.3
-2	.0	.2	1.5	2.6	2.9	.3	.1	.0	.0	.0	.0	72	.7	6.9
-3	.0	.1	1.5	2.2	2.4	.1	.0	.0	.0	.0	.0	60	.6	5.7
-4	.0	.5	.6	2.8	1.3	.1	.0	.0	.0	.0	.0	50	.1	5.2
-5	.0	.3	1.3	2.6	1.1	.0	.0	.0	.0	.0	.0	52	.2	5.3
-6	.0	.5	1.6	1.9	.2	.0	.0	.0	.0	.0	.0	40	.2	4.0
-7/-8	.0	.8	2.1	2.8	.2	.1	.0	.0	.0	.0	.0	57	.0	6.0
-9/-10	.3	.7	2.5	.4	.3	.0	.0	.0	.0	.0	.0	41	.0	4.3
-11/-13	.0	.2	1.9	.5	.0	.0	.0	.0	.0	.0	.0	25	.0	2.6
TOTAL	3	96	194	242	259	147	56	29	11	7	1	945	73	872
PCT	.3	3.8	16.3	25.6	27.4	15.6	5.9	3.1	1.2	.7	.1	100.0	7.7	92.3

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	.8	.0	.0	.0	.0	.8
1-2	.0	.5	.5	.0	.0	.0	.9
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.4	.3	.0	.0	1.7
7	.0	.0	2.6	.5	.0	.0	3.1
8-9	.0	.0	1.0	1.2	.0	.0	2.2
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.3	.0	.0	.0	.3
17-19	.0	.0	.0	.0	.3	.3	.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	1.3	5.9	2.3	.5	.3	10.3

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	.9	.5	.0	.0	.0	1.4
3-4	.0	.0	.9	.0	.0	.0	.9
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1
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	1.8	2.3	.0	.0	.0	4.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	.5	.0	.0	.0	.0	1.8
1-2	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.5	.0	.3	.0	.0	.8
5-6	.0	.0	1.2	.5	.0	.0	1.6
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.5	.0	.0	.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	1.4	2.3	1.5	.8	.0	.0	6.0

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	.9	.9	.0	.0	.0	1.8
3-4	.0	.5	2.5	.1	.0	.0	3.1
5-6	.0	.0	2.0	1.4	.0	.0	3.3
7	.0	.5	2.4	.5	.0	.0	3.3
8-9	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.0	.5	.5	.0	.9
12	.0	.0	.5	.5	.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	.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	2.8	6.9	3.3	.5	.0	15.4

PERIOD: (OVER-ALL) 1963-1970

OCTOBER

TABLE 18 (CONT)

AREA 0003 NE NEWFOUNDLAND COAST
49.1N 53.1W

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	.8	1.4	.8	.0	.0	.0	3.0
1-2	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.0	2.1	.0	.0	.0	2.1
5-6	.0	.9	1.6	.5	.0	.0	3.0
7	.0	.0	3.5	.8	.0	.0	4.3
8-9	.0	.0	2.6	.5	.0	.0	3.1
10-11	.0	.0	.3	.5	.0	.0	.8
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	.8	3.2	10.9	2.9	.0	.0	17.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.6	.0	.0	.0	1.2
1-2	.0	.0	1.0	.0	.0	.0	1.0
3-4	.0	.9	3.1	.0	.0	.0	4.0
5-6	.0	.5	2.9	2.3	.0	.0	5.6
7	.0	.0	.6	.2	.0	.0	.8
8-9	.0	.0	.9	.9	.0	.0	1.8
10-11	.0	.0	.1	.5	.0	.0	.6
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	1.8	9.2	4.0	.0	.0	15.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.0	.0	.3	.0	.0	.0	.3
3-4	.0	1.4	1.5	.0	.0	.0	2.9
5-6	.0	.0	.9	.5	.0	.0	1.4
7	.0	.0	2.2	2.0	.0	.0	4.1
8-9	.0	.0	.8	.3	.0	.0	1.2
10-11	.0	.0	.3	.0	.5	.0	.8
12	.0	.0	.0	.9	.0	.0	.9
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	.0	2.2	6.1	4.1	.5	.0	12.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.7	.9	.0	.0	.0	1.6	
1-2	.0	.5	.0	.0	.0	.0	.5	
3-4	.0	.0	1.8	.0	.0	.0	1.8	
5-6	.0	.5	.0	.1	.0	.0	.6	
7	.0	.0	1.2	.2	.0	.0	1.4	
8-9	.0	.0	2.2	.8	.5	.0	3.5	
10-11	.0	.5	.6	2.4	.0	.0	3.5	
12	.0	.5	.0	.9	.0	.0	1.4	
13-16	.0	.0	.1	.0	.9	.0	1.0	
17-19	.0	.0	.0	.0	.0	.1	.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	2.5	6.8	4.5	1.4	.1	15.3	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	5.5	6.5	2.3	.0	.0	.0	14.3	
1-2	.0	4.6	3.2	.0	.0	.0	7.8	
3-4	.0	3.2	12.0	.5	.0	.0	15.7	
5-6	.0	1.8	10.1	5.5	.0	.0	17.5	
7	.0	.5	12.9	4.1	.0	.0	17.5	
8-9	.0	.0	8.8	3.7	.5	.0	12.9	
10-11	.0	.9	1.4	4.1	.9	.0	7.4	
12	.0	.5	.5	2.8	.0	.0	3.7	
13-16	.0	.0	.5	.5	.9	.0	1.8	
17-19	.0	.0	.0	.0	.5	.5	.9	
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	5.5	18.0	51.6	21.7	2.8	.5	100.0	217

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	4.1	10.4	7.5	1.8	1.0	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	4
6-7	.0	.3	4.4	7.3	6.7	3.9	3.9	1.6	2.8	1.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	126	8
8-9	.0	.0	.5	2.8	3.1	6.7	4.7	2.6	2.6	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	93	10
10-11	.0	.3	.0	.0	.5	1.6	.5	.5	.5	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	17	10
12-13	.0	.0	.5	.3	.3	.3	.8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
>13	.0	.0	.0	.0	.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	9
INDET	1.6	1.0	2.8	1.0	.8	.5	1.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	4
TOTAL	7	22	72	73	51	57	46	19	26	7	1	3	2	0	0	0	0	0	0	386	7
PCT	1.8	5.7	18.7	18.9	13.2	14.8	11.9	4.9	6.7	1.8	.3	.8	.5	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1948-1970
(OVER-ALL) 1895-1970

AREA 0003 NE NEWFOUNDLAND COAST
48.7N 52.0W

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	10.2	1.5	6.2	.0	4.0	.0	.0	19.4	1.2	.0	2.2	.0	.6		.0	76.6
NE	13.5	4.3	5.0	.0	4.3	.0	.0	25.5	5.7	.0	17.7	.0	1.4		.0	49.6
E	13.2	.0	9.9	.0	.0	.0	.0	23.1	.0	.0	3.3	.0	4.4		.0	69.2
SE	7.4	.0	2.8	.0	2.3	.0	2.3	12.5	2.3	.0	8.5	.0	.0		.0	76.7
S	7.6	.8	3.1	.0	.0	.0	.0	10.5	1.7	.0	9.6	.0	1.7		.0	76.3
SW	1.7	.2	.8	.0	1.9	.0	.0	4.5	2.1	.0	6.8	.8	1.1		.0	84.8
W	.5	.0	.0	.0	5.3	.0	.0	5.8	.5	.0	.9	.0	.4		.0	92.4
NW	4.8	.1	3.0	.0	4.9	.0	.6	11.4	1.2	.0	4.0	.0	.9		.0	82.5
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	11.1	.0	11.1	.0	.0		.0	77.8
TOT PCT	5.1	.6	2.6	.0	3.3	.0	.3	10.8	1.7	.0	5.4	.1	1.0		.0	81.0
TOT OBS:	722															

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
00E03	8.4	1.3	3.2	.0	4.5	.0	.6	18.9	1.3	.0	5.2	.0	1.9		.0	74.7
06E09	5.2	.6	2.6	.0	3.2	.0	.0	11.0	1.9	.0	3.2	.0	.0		.0	83.9
12E15	4.0	.4	3.6	.0	3.6	.0	.0	9.9	1.3	.0	5.4	.0	.4		.0	83.0
18E21	4.1	.0	1.5	.0	2.1	.0	.5	7.2	2.1	.0	7.7	.5	1.5		.0	80.9
TOT PCT	5.2	.6	2.8	.0	3.3	.0	.3	10.9	1.7	.0	5.5	.1	1.0		.0	80.9
TOT OBS:	726															

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	3.2	5.3	3.5	.2	.0		12.4	16.6	10.6	14.1	16.7	11.0	10.5	15.2	10.9	12.9
NE	.2	1.3	2.3	1.4	.2	.0		5.2	16.2	5.9	5.1	3.5	6.8	9.1	5.8	2.4	1.7
E	.0	1.0	1.8	.6	.0	.0		3.4	15.4	2.4	3.8	2.1	5.9	3.3	3.8	3.3	4.7
SE	.0	2.3	2.5	.6	.3	*		5.8	14.4	9.4	2.6	6.8	5.9	5.4	2.5	5.9	3.9
S	.2	2.7	5.6	3.2	.5	.1		12.2	17.9	18.3	16.7	13.7	8.5	9.4	10.1	10.0	13.4
SW	.2	3.2	8.8	4.0	1.4	.2		17.8	19.2	18.5	21.8	17.9	7.2	19.0	14.6	25.9	16.8
W	.3	2.6	9.7	6.1	1.0	.3		19.0	19.8	12.2	20.5	25.2	26.7	24.8	17.7	13.8	14.7
NW	.3	2.4	10.1	9.4	.8	.0		22.9	20.3	21.1	15.4	13.0	26.3	21.7	28.3	27.2	30.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2							1.2	.0	1.6	.0	.9	1.7	.7	2.0	.7	1.7
TOT OBS	19	146	349	223	34	5	776		18.3	127	39	106	59	143	99	145	58
TOT PCT	2.4	18.8	45.0	28.7	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	1.4	5.3	4.6	1.2	.0		12.4	16.6	11.4	14.7	12.4	11.5
NE	.6	2.4	1.8	.5	.0		5.2	16.2	5.7	4.7	7.7	2.2
E	.4	1.4	1.5	.1	.0		3.4	15.4	2.7	3.5	3.5	3.7
SE	1.4	2.5	1.5	.4	*		5.8	14.4	7.8	6.5	4.2	5.3
S	.4	5.9	4.2	1.6	.2		12.2	17.9	17.9	11.8	9.7	11.0
SW	.7	7.9	5.7	2.9	.7		17.8	19.2	19.3	14.1	14.9	23.3
W	.5	7.4	8.0	2.4	.7		19.0	19.8	14.2	25.8	21.9	14.0
NW	.9	6.4	11.5	4.0	.1		22.9	20.3	19.7	17.7	24.4	28.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.2						1.2	.0	1.2	1.2	1.2	1.0
TOT OBS	57	304	301	101	13	776		18.3	166	165	242	203
TOT PCT	7.3	39.2	38.8	13.0	1.7		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1948-1970
(OVER-ALL) 1895-1970

AREA 0003 NE NEWFOUNDLAND COAST
48.7N 52.0W

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	1.2	3.6	20.5	41.6	27.1	6.0	.0	17.6	100.0	166
06&09	1.2	1.8	19.4	49.1	24.2	3.0	1.2	17.5	100.0	165
12&15	1.2	.4	17.8	45.5	29.8	5.0	.4	18.4	100.0	242
18&21	1.0	.0	18.2	43.8	32.5	3.4	1.0	19.4	100.0	203
TOT	9	10	146	349	223	34	5	18.3		776
PCT	1.2	1.3	18.8	45.0	28.7	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	1.5	.2	1.9	8.4		6.6
NE	.2	.0	.8	5.3		7.6
E	.0	.2	.9	3.3		7.3
SE	1.1	.0	1.0	5.1		6.6
S	1.6	.2	3.2	7.3		6.5
SW	4.8	2.2	4.2	9.3		5.6
W	2.5	1.8	4.7	8.6		6.1
NW	.8	1.1	5.2	11.0		6.9
VAR	.0	.0	.0	.0		.0
CALM	.6	.2	.4	.4		3.8
TOT OBS	64	29	109	287	489	6.4
TOT PCT	13.1	5.9	22.3	58.7	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	.6	.1	.0	1.6	4.6	1.9	.4	.1	.2	.0	2.7	
NE	.9	.1	.4	1.1	2.4	.6	.4	.1	.1	.0	.2	
E	.2	.0	.2	.8	.8	1.6	.4	.0	.0	.0	.5	
SE	.9	.0	.3	.9	2.4	.6	.3	.0	.0	.0	1.8	
S	1.3	.0	.2	.8	2.5	1.4	1.1	.0	.3	.6	4.1	
SW	1.3	.0	.1	1.9	3.6	2.1	.7	.2	.7	.4	9.6	
W	.0	.0	.5	1.5	4.2	4.4	.9	.2	.4	.0	5.5	
NW	.6	.9	.5	1.7	5.2	4.1	.7	.4	.2	.0	4.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.8	
TOT OBS	30	9	10	51	125	82	25	5	9	5	145	489
TOT PCT	6.1	.4	2.0	10.4	25.6	16.8	5.1	1.0	1.8	1.0	29.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.0	2.4	2.6	2.6	2.6	2.9	2.9	2.9
* OR >5000	1.8	3.5	3.7	3.7	3.7	3.9	3.9	3.9
* OR >3500	6.3	8.1	8.6	8.6	8.8	9.0	9.0	9.0
* OR >2000	16.5	24.4	25.3	25.5	25.7	25.9	25.9	25.9
* OR >1000	26.9	47.3	49.7	50.1	50.9	51.3	51.3	51.3
* OR >600	31.4	55.0	59.1	59.9	61.1	61.7	61.7	61.7
* OR >300	31.6	55.2	60.1	60.9	62.9	63.5	63.7	63.7
* OR >150	31.6	55.2	60.1	61.1	63.1	64.0	64.2	64.2
* OR > 0	31.6	55.4	61.1	62.7	65.2	67.6	69.7	70.5
TOTAL	155	272	300	308	320	332	342	346

TOTAL NUMBER OF OBS: 491 PCT FREQ NH <5/8: 29.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.4	3.5	9.4	3.1	3.1	5.3	9.4	6.1	44.4	5.3	511

NOVEMBER

PERIOD: (PRIMARY) 1948-1970
(OVER-ALL) 1895-1970

AREA 0003 NE NEWFOUNDLAND COAST
46.7N 52.0W

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	.2	.1	.0	.1	.3	.1	.0	.3	.0	.0	1.0	
	NO PCP	.1	.4	.1	.4	.8	.8	.0	.1	.0	.0	2.8	
	TOT %	.3	.5	.1	.5	1.1	.8	.0	.4	.0	.0	3.7	
1/2<1	PCP	.1	.0	.0	.2	.2	.0	.0	.1	.0	.0	.7	
	NO PCP	.0	.3	.0	.1	.5	.9	.1	.0	.0	.0	1.2	
	TOT %	.1	.3	.0	.3	.7	.9	.1	.1	.0	.0	1.9	
1<2	PCP	.2	.3	.0	.0	.0	.0	.0	.3	.0	.0	.8	
	NO PCP	.1	.2	.0	.0	.1	.2	.1	.3	.0	.1	1.1	
	TOT %	.3	.5	.0	.0	.1	.2	.1	.7	.0	.1	1.9	
2<5	PCP	.2	.3	.3	.2	.4	.2	.1	.1	.0	.0	1.9	
	NO PCP	.7	.2	.0	.3	.4	.6	.2	.7	.0	.1	3.2	
	TOT %	.9	.5	.3	.5	.8	.8	.3	.8	.0	.1	5.1	
5<10	PCP	1.1	.3	.4	.1	.4	.6	1.0	1.8	.0	.0	5.5	
	NO PCP	2.9	1.3	1.2	1.8	3.7	4.5	5.7	6.0	.0	.3	26.8	
	TOT %	3.9	1.6	1.6	2.0	4.1	5.0	6.7	7.8	.0	.3	32.3	
10+	PCP	.9	.2	.0	.1	.0	.1	.0	.0	.0	.0	.8	
	NO PCP	5.3	1.3	1.1	2.7	5.5	11.1	12.4	13.4	.0	.7	54.1	
	TOT %	6.2	1.5	1.1	2.8	5.5	11.9	12.4	13.4	.0	.7	54.9	
	TOT OBS												721
	TOT PCT	11.3	4.9	3.2	6.1	12.2	18.9	19.6	23.2	.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	.1	.0	.1	.3	.1	.1	.0	.1	.0		.9	
	11-21	.2	.5	.0	*	.4	.5	.0	.0	.0		1.6	
	22+	.0	.0	.0	.1	.6	.1	.0	.3	.0		1.1	
	TOT %	.3	.5	.1	.4	1.1	.8	.0	.4	.0	.0	3.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.0	.1	.1	.0	.0		.3	
	11-21	.1	.1	.0	.0	.3	.1	.0	.1	.0		.8	
	22+	.1	.1	.0	.2	.4	.1	.0	.0	.0		.9	
	TOT %	.3	.3	.0	.3	.7	.3	.1	.1	.0	.0	2.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.1	.1	.0		.1	
	11-21	.1	.3	.0	.0	.0	.0	.0	.1	.0		.5	
	22+	.2	.3	.0	.0	.1	.2	.0	.4	.0		1.2	
	TOT %	.3	.6	.0	.0	.1	.2	.1	.6	.0	.1	2.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.2	.1	.1	.3	.0	.1	.1	.2	.0		1.1	
	11-21	.6	.4	.1	*	.6	.5	.1	.5	.0		2.7	
	22+	.1	.0	.1	.2	.3	.1	.1	.1	.0		1.2	
	TOT %	.9	.5	.3	.5	.9	.7	.3	.8	.0	.1	5.1	
5<10	0-3	.1	*	.0	.0	.2	.1	.2	.3	.0	.3	1.2	
	4-10	.7	.7	.5	.8	1.4	.7	.7	.9	.0		6.4	
	11-21	1.1	.4	.7	.7	1.3	2.2	2.9	3.0	.0		12.3	
	22+	1.3	.4	.4	.4	1.0	1.8	2.6	3.3	.0		11.2	
	TOT %	3.2	1.6	1.6	1.9	3.9	4.8	6.4	7.5	.0	.3	31.1	
10+	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.7	.9	
	4-10	2.1	.4	.4	.9	1.3	2.3	1.8	.9	.0		10.1	
	11-21	3.0	.7	1.0	1.8	3.0	5.6	5.9	6.5	.0		27.5	
	22+	1.6	.7	.1	.1	1.4	3.0	4.8	6.0	.0		17.7	
	TOT %	6.9	2.0	1.5	2.8	5.7	11.0	12.4	13.3	.0	.7	56.3	
	TOT OBS												750
	TOT PCT	11.9	5.4	3.5	6.0	12.3	17.7	19.3	22.7	.0	1.2	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1948-1970
(OVER-ALL) 1899-1970

AREA 0003 NE NEWFOUNDLAND COAST
48.7N 52.0W

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
00E03	5.8	.0	2.9	8.7	28.8	8.7	4.8	1.9	1.0	1.0	63.5	36.5	104
06E09	5.9	.0	.8	12.7	21.2	16.1	5.1	.0	.0	.0	61.9	38.1	118
12E15	5.7	.7	3.5	9.9	20.2	22.7	5.7	.0	1.4	.7	76.6	23.4	141
18E21	8.1	.7	.7	9.6	24.4	17.0	4.4	2.2	4.4	2.2	74.1	25.9	135
TOT	32	2	10	51	125	83	25	5	9	5	347	151	498
PCT	6.4	.4	2.0	10.2	25.1	16.7	5.0	1.0	1.8	1.0	69.7	30.3	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
00E03	4.9	1.3	1.9	5.1	41.4	45.9	157
06E09	2.4	1.8	1.2	7.3	27.4	59.8	164
12E15	2.1	3.0	2.1	4.7	28.3	59.7	233
18E21	6.0	1.5	2.5	4.0	29.0	57.0	200
TOT	28	15	15	39	234	423	754
PCT	3.7	2.0	2.0	5.2	31.0	56.1	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
00E03	5.9	8.8	20.6	44.1	35.3	102
06E09	6.0	8.5	23.1	39.3	37.6	117
12E15	5.1	12.3	22.5	55.1	22.5	138
18E21	8.2	12.7	27.6	48.5	23.9	134
TOT	31	53	116	232	143	491
PCT	6.3	10.8	23.6	47.3	29.1	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	.0	.0	.0	.0	.0	.0	.2	1	.2
55/59	.0	.0	.0	.0	.0	.2	.2	.3	4	.7
50/54	.0	.0	.0	.0	.0	.0	.2	.7	5	.9
45/49	.0	.0	.0	.0	.3	.5	1.2	3.1	30	5.1
40/44	.0	.0	.0	.2	1.4	3.4	6.3	8.5	116	19.8
35/39	.0	.0	.0	.3	5.5	10.8	16.8	15.9	288	49.2
30/34	.0	.0	.0	.2	2.4	5.0	10.1	5.5	135	23.1
25/29	.0	.0	.0	.0	.0	.2	.5	.3	6	1.0
TOTAL	0	0	0	4	56	117	206	202	585	100.0
PCT	.0	.0	.0	.7	9.6	20.0	35.2	34.5		

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
.0	.0	.0	.0	.6	.1	.0	.0	.0	.0
.0	.0	.1	*	.1	.3	.2	.0	.0	.0
.3	.2	.4	1.0	1.8	1.1	.1	.2	.0	.2
2.1	1.8	.8	.8	3.2	3.6	3.5	3.7	.0	.3
7.2	3.0	2.0	2.7	4.9	6.2	7.3	15.4	.0	.5
3.3	.5	.3	.7	1.0	4.2	7.6	5.3	.0	.2
.0	.0	.0	.0	.0	.3	.6	.2	.0	.0
12.9	5.5	3.7	5.3	11.5	16.0	19.3	24.7	.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
00E03	55	51	47	38	32	27	25	38.2	165
06E09	65	59	46	36	31	27	27	37.4	166
12E15	50	48	45	37	31	28	24	37.3	242
18E21	58	52	46	37	32	26	25	37.9	204
TOT	65	50	46	37	31	27	24	37.8	777

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
00E03	.0	1.8	6.3	14.3	38.4	39.3	85	112
06E09	.0	.0	6.3	15.6	39.1	39.1	85	128
12E15	.0	.0	15.5	22.2	28.9	33.5	83	194
18E21	.0	1.3	7.2	24.8	37.3	29.4	83	153
TOT	0	4	56	117	206	204	84	587

NOVEMBER

PERIOD: (PRIMARY) 1948-1970
(OVER-ALL) 1895-1970

AREA 0003 NE NEWFOUNDLAND COAST
48.7N 52.0W

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	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.6	.0	.0	.2	5	.2	.6
9/10	.0	.0	.0	.0	.5	.2	.3	.0	.0	6	.0	.9
7/8	.0	.0	.0	.0	.9	.5	.3	.2	.0	11	.5	1.3
6	.0	.0	.0	.0	.5	.3	.2	.0	.0	6	.2	.8
5	.0	.0	.0	.3	2.3	.9	.0	.2	.0	24	.9	2.8
4	.0	.0	.2	1.6	1.4	.6	.2	.0	.0	25	.2	3.8
3	.0	.0	.0	2.8	2.2	.5	.3	.0	.0	37	.2	5.6
2	.0	.0	1.3	3.9	2.0	.5	.3	.0	.0	51	.9	7.0
1	.0	.0	1.4	4.7	1.6	.9	.0	.0	.0	55	.5	8.1
0	.0	.2	2.5	3.3	2.3	.5	.0	.0	.0	56	.3	8.5
-1	.0	.0	1.1	2.5	.5	.2	.0	.0	.0	27	.3	3.9
-2	.0	.3	3.3	3.9	.6	.2	.2	.0	.0	54	.5	8.0
-3	.0	.3	3.4	3.6	.6	.0	.0	.0	.0	51	.2	7.8
-4	.0	.8	4.9	1.3	.5	.2	.0	.0	.0	48	.2	7.4
-5	.0	.3	4.7	2.7	.2	.0	.0	.0	.0	50	.2	7.7
-6	.0	4.2	4.5	.5	.2	.0	.0	.0	.0	60	.0	9.4
-7/-8	.0	2.7	3.0	.8	.0	.0	.0	.0	.0	41	.0	6.4
-9/-10	.3	1.1	1.4	.3	.0	.0	.0	.0	.0	20	.0	3.1
-11/-13	.2	.2	.8	.5	.0	.0	.0	.0	.0	10	.0	1.6
-14/-16	.3	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.3
TOTAL	5		207		104		11		1		32	607
		64		208		37		2		639		
PCT	.8	10.0	32.4	32.6	16.3	5.8	1.7	.3	.2	100.0	5.0	95.0

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	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.6	.7	.0	.0	.0	3.2
3-4	.0	.0	1.2	.0	.0	.0	1.2
5-6	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	.7	.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	2.0	.0	.0	2.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	4.1	2.0	.0	.0	8.7

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	.9	.0	.0	.0	.0	.9
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.7	.0	.7	.7	.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	.7	.9	.7	.7	.0	.0	2.9

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	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.7	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	.5	2.0	.0	.0	.0	2.6

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	.7	.2	.0	.0	.0	.9
3-4	.0	.9	.7	.0	.0	.0	1.5
5-6	.0	.0	.7	.7	.0	.0	1.4
7	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	.0	.7	.0	.0	.7
10-11	.0	.0	.0	1.0	.7	.0	1.7
12	.0	.0	.0	.0	.0	.2	.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	2.4	2.4	2.4	.7	.2	8.0

PERIOD: (OVER-ALL) 1963-1970

NOVEMBER

AREA 0003 NE NEWFOUNDLAND COAST
48.7N 52.0W

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	1.2	.5	.0	.0	.0	1.7
3-4	.0	.5	2.9	.0	.0	.0	3.4
5-6	.5	.0	1.0	.5	.0	.0	2.0
7	.0	.0	.5	.7	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.0	.0	.0	1.0
12	.0	.0	.7	.0	.0	.5	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	.5	1.7	5.6	2.2	.0	.5	10.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.7	.0	.0	.0	.7
1-2	.0	3.6	1.4	.0	.0	.0	4.9
3-4	.0	1.5	3.2	.7	.0	.0	5.4
5-6	.2	.0	3.1	.2	.9	.0	4.3
7	.0	.0	.7	.7	.7	1.0	3.1
8-9	.0	.7	.0	.0	.0	.0	.7
10-11	.0	.0	.0	.0	1.4	.0	1.4
12	.0	.0	.0	.0	.2	.0	.2
13-16	.0	.0	.0	2.0	.0	.0	2.0
17-19	.0	.0	.0	.7	.7	.0	1.4
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	.2	5.8	9.0	4.3	3.7	1.0	24.0

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	.7	1.4	.0	.0	.0	2.0
3-4	.0	1.2	3.7	1.2	.0	.0	6.1
5-6	.0	.0	1.2	2.0	1.2	.0	4.4
7	.0	.0	.7	1.4	.7	1.0	3.7
8-9	.0	.5	.7	1.9	.0	.0	3.1
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	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	7.7	6.5	2.4	1.0	19.9

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	1.4	.0	.0	.0	.0	1.4	
3-4	.0	.7	3.2	.2	.0	.0	4.1	
5-6	.7	.0	2.0	.7	.0	.0	3.4	
7	.0	.0	1.4	.0	.0	.0	1.4	
8-9	.0	.9	1.4	1.5	.0	.0	3.7	
10-11	.0	.0	1.4	.7	1.4	.0	3.4	
12	.0	.0	.0	.7	.7	.0	1.4	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	1.4	.0	.0	1.4	
20-22	.0	.0	.0	.0	.7	.0	.7	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	2.9	9.4	5.1	2.7	.0	20.7	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	2.7	1.4	.7	.0	.0	.0	4.8	
1-2	.0	10.9	4.1	.0	.0	.0	15.0	
3-4	.0	4.8	15.6	2.0	.0	.0	22.4	
5-6	2.0	.0	10.2	4.8	2.0	.0	19.0	
7	.0	.0	6.1	2.7	1.4	2.0	12.2	
8-9	.0	2.0	2.0	4.1	.0	.0	8.2	
10-11	.0	.0	1.4	2.7	3.4	.0	7.5	
12	.0	.0	.7	2.7	1.4	.7	5.4	
13-16	.0	.0	.0	2.0	.0	.0	2.0	
17-19	.0	.0	.0	2.0	.7	.0	2.7	
20-22	.0	.0	.0	.0	.7	.0	.7	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								147
TOT PCT	4.8	19.0	40.8	23.1	9.5	2.7	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	.0	2.6	9.1	7.5	2.3	1.3	.3	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	5
6-7	.0	.0	2.9	9.1	7.2	3.3	2.9	2.9	1.6	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	8
8-9	.0	.7	.3	5.9	2.6	3.3	3.3	.3	1.0	2.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	61	9
10-11	.0	.3	.3	1.0	1.6	.3	.3	1.6	2.3	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	30	11
12-13	.0	.0	.3	.0	.3	.3	.3	1.6	.0	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	14	12
>13	.0	.0	.0	.0	.3	.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	10
INDET	1.3	1.0	1.3	2.6	.7	1.0	.7	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	9
TOTAL	4	14	44	80	46	30	25	20	20	18	6	0	0	0	0	0	0	0	0	307	7
PCT	1.3	4.6	14.3	26.1	15.0	9.8	8.1	6.5	6.5	5.9	2.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1947-1970
(OVER-ALL) 1878-1970

AREA 0003 NE NEWFOUNDLAND COAST
48.7N 52.1W

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	3.9	.0	.0	16.1	.0	.0	22.0	1.5	.0	8.3	.0	.0	.0	.0	68.3
NE	.0	1.4	5.7	.0	30.0	.0	.0	37.1	7.1	.0	5.7	.0	.0	.0	.0	50.0
E	.0	7.5	20.0	.0	35.0	.0	.0	62.5	7.5	.0	5.0	.0	.0	.0	.0	25.0
SE	8.3	.0	8.3	5.6	16.7	.0	.0	98.9	8.3	.0	16.7	.0	.0	.0	.0	36.1
S	5.1	4.7	3.1	.0	3.9	.0	.0	16.9	5.5	.0	28.0	.0	1.6	.0	.0	48.0
SW	5.1	.0	.7	.0	13.9	.0	1.4	19.7	.7	.0	3.7	.7	.0	.0	.0	75.3
W	2.9	.0	.0	.0	14.7	.0	.0	17.5	3.4	1.1	1.1	.6	.0	.0	.0	76.1
NW	.0	.0	.0	.0	32.2	.0	.0	32.2	1.7	.0	1.7	.0	.0	.0	.0	64.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	100.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.3	1.6	2.2	.3	16.3	.0	.3	23.7	3.3	.3	8.4	.3	.3	.0	.0	63.8
TOT OBS:	367															

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	.0	4.1	.0	19.6	.0	.0	24.7	1.0	.0	9.3	.0	.0	.0	.0	64.9
06&09	4.3	2.1	2.1	.0	12.8	.0	.0	21.3	4.3	.0	6.4	.0	.0	.0	.0	68.1
12&15	4.8	2.9	1.9	1.0	14.4	.0	1.0	26.0	2.9	.0	7.7	1.0	1.0	.0	.0	61.5
18&21	2.5	1.2	.0	.0	19.8	.0	.0	22.2	4.9	1.2	9.9	.0	.0	.0	.0	61.7
TOT PCT	3.2	1.6	2.1	.3	16.5	.0	.3	23.7	3.2	.3	8.2	.3	.3	.0	.0	64.1
TOT OBS:	376															

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	6.0	4.3	1.1	.2		13.1	21.0	23.2	9.4	9.7	2.2	11.2	7.1	13.4	26.0
NE	.0	1.2	3.3	.5	.2	.0		5.3	15.5	5.0	4.7	6.9	6.5	2.0	8.3	5.2	5.2
E	.0	.7	1.1	.0	.6	.0		2.4	18.4	3.6	1.6	1.3	.0	5.9	2.4	.0	2.1
SE	.2	1.0	1.2	1.8	.5	.1		4.7	19.1	4.6	6.3	3.1	6.5	6.9	4.8	3.0	4.2
S	.0	2.7	8.0	6.0	.4	.2		17.4	18.8	17.5	9.4	23.1	21.7	20.1	6.5	20.5	6.3
SW	.2	3.0	9.0	6.3	1.5	.0		20.0	19.7	16.8	15.6	15.9	21.7	20.7	33.9	23.9	10.4
W	.0	3.7	9.2	8.3	2.2	.2		23.6	20.8	16.4	25.0	28.8	34.8	23.4	26.2	20.1	20.8
NW	.5	1.4	5.2	3.4	1.9	.2		12.7	21.6	12.9	28.1	10.0	6.5	9.9	8.3	12.3	25.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0	.0	.0	1.3	.0	.0	2.4	1.5	.0
TOT OBS	12	58	178	127	35	4	414		19.8	70	32	80	23	76	42	67	24
TOT PCT	2.9	14.0	43.0	30.7	8.5	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	1.3	2.1	6.4	3.0	.4		13.1	21.0	18.9	8.0	9.7	16.8
NE	.7	2.3	2.0	.2	.0		5.3	15.5	4.9	6.8	4.2	5.2
E	.6	.5	.7	.6	.0		2.4	18.4	2.9	1.0	4.7	.5
SE	.4	1.9	1.3	1.1	.1		4.7	19.1	5.1	3.9	6.1	3.3
S	1.1	7.2	6.0	2.9	.2		17.4	18.8	15.0	22.8	15.3	16.8
SW	.7	6.3	9.6	2.9	.6		20.8	19.7	16.4	17.2	25.4	20.3
W	.9	7.5	9.8	4.8	.6		23.6	20.8	19.1	30.1	24.4	20.3
NW	.6	4.6	4.1	2.4	1.1		12.7	21.6	17.6	9.2	9.3	15.7
VAR	.0	.0	.0	.0	.0		.8	.0	.0	.0	.0	.0
CALM	.7						.7	.0	.0	1.0	.8	1.1
TOT OBS	29	134	165	74	12	414		19.8	102	103	118	91
TOT PCT	7.0	32.4	39.9	17.9	2.9		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1947-1970
(OVER-ALL) 1878-1970

AREA 0003 NE NEWFOUNDLAND COAST
48.7N 52.1W

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	.0	2.0	13.7	45.1	31.4	6.9	1.0	19.7	100.0	102
06&09	1.0	1.0	11.7	42.7	30.1	13.6	.0	20.8	100.0	103
12&15	.8	2.5	16.9	44.1	28.0	7.6	.0	18.8	100.0	118
18&21	1.1	3.3	13.2	39.6	34.1	5.5	3.3	20.1	100.0	91
TOT	3	9	58	178	127	35	4	19.8		414
PCT	.7	2.2	14.0	43.0	30.7	8.5	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	.2	4.0	7.8		7.1
NE	.6	.1	.9	4.1		7.0
E	.0	.0	.0	1.3		8.0
SE	.0	.0	.8	3.5		7.5
S	1.8	.6	2.4	14.2		6.9
SW	2.8	2.8	4.8	8.7		5.8
W	3.7	2.6	7.8	9.4		5.8
NW	1.7	1.3	3.5	7.9		6.5
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.3		8.0
TOT OBS	35	24	77	182	318	6.4
TOT PCT	11.0	7.5	24.2	57.2	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	1.8	.0	.0	1.7	2.7	4.0	.0	.3	.6	.0	1.4	
NE	.3	.0	.0	.3	1.5	1.9	.9	.0	.0	.0	.8	
E	.6	.0	.3	.0	.2	.2	.0	.0	.0	.0	.0	
SE	1.6	.0	.1	.4	.5	1.5	.0	.0	.0	.0	.2	
S	5.3	.0	.5	1.3	3.4	3.2	.0	.4	.9	.6	3.4	
SW	1.3	.0	.4	.3	3.0	4.0	1.1	.6	.4	.0	8.0	
W	.6	.0	.0	1.0	4.6	6.5	1.4	.0	.5	.2	8.6	
NW	1.0	.3	.0	1.0	3.6	3.9	.0	.0	.2	.1	4.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	41	1	4	19	62	80	11	4	8	3	85	318
TOT PCT	12.9	.3	1.3	6.0	19.5	25.2	3.5	1.3	2.5	.9	26.7	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	1.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
≥ OR >5000	2.1	4.6	4.6	4.6	4.6	4.6	4.6	4.6
≥ OR >3500	4.6	8.0	8.0	8.0	8.0	8.0	8.0	8.0
≥ OR >2000	17.5	30.7	32.8	33.1	33.4	33.4	33.4	33.4
≥ OR >1000	24.2	44.5	49.7	51.2	52.5	52.5	52.8	52.8
≥ OR >600	25.8	47.5	53.4	55.5	57.1	57.4	58.6	58.6
≥ OR >300	25.8	48.2	54.0	56.7	58.3	58.6	59.8	59.8
≥ OR >150	25.8	48.5	54.3	57.1	58.6	58.9	60.1	60.1
≥ OR > 0	25.8	49.1	55.8	59.8	62.9	67.2	73.3	73.3
TOTAL	84	160	182	195	205	219	239	239

TOTAL NUMBER OF OBS: 326 PCT FREQ NH <5/8: 26.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.8	2.9	7.5	6.4	2.9	5.2	10.4	8.4	36.4	12.1	346

DECEMBER

PERIOD: (PRIMARY) 1947-1970
(OVER-ALL) 1878-1970

AREA 0003 NE NEWFOUNDLAND COAST
48.7N 52.1W

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	.3	.0	.3	.7	.4	.5	.5	.3	.0	.0	3.0	
<1/2	NO PCP	.7	.0	.0	.3	3.8	.7	.0	.1	.0	.0	5.7	
	TOT %	1.0	.0	.3	1.0	4.2	1.3	.5	.4	.0	.0	8.7	
	PCP	1.1	.7	.1	.5	.5	.0	.0	.3	.0	.0	3.3	
1/2<1	NO PCP	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
	TOT %	1.1	.7	.1	.5	.8	.0	.0	.3	.0	.0	3.5	
	PCP	.0	.1	.7	.0	.4	1.2	.0	.5	.0	.3	3.3	
1<2	NO PCP	.5	.0	.1	.5	.2	.0	.3	.1	.0	.0	1.6	
	TOT %	.5	.1	.9	.5	.6	1.2	.3	.6	.0	.3	4.9	
	PCP	.7	.0	.0	.1	1.2	.9	.5	1.2	.0	.0	4.1	
2<5	NO PCP	.3	.3	.0	.2	1.8	.1	.0	.0	.0	.0	2.7	
	TOT %	1.0	.3	.0	.3	3.1	.9	.5	1.2	.0	.0	6.8	
	PCP	1.0	1.0	.5	.3	.1	1.8	2.8	1.6	.0	.0	9.2	
5<10	NO PCP	5.2	.3	.1	1.6	4.0	8.4	10.4	3.3	.0	.0	33.4	
	TOT %	6.3	1.3	.7	1.9	4.1	10.3	13.2	5.0	.0	.0	42.7	
	PCP	.0	.0	.0	.3	.2	.1	.5	.0	.0	.0	1.1	
10+	NO PCP	4.2	2.4	.7	.3	4.2	6.8	8.8	4.8	.0	.0	32.3	
	TOT %	4.2	2.4	.7	.6	4.4	6.9	9.4	4.8	.0	.0	33.4	
	TOT OBS												368
	TOT PCT	13.9	4.8	2.7	4.9	17.3	20.1	23.8	12.2	.0	.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	.6	.0	.0	.0	.0	.0	.0	.1	.0	.0	.8	
<1/2	4-10	.0	.0	.0	.0	.5	.3	.0	.0	.0		.8	
	11-21	.0	.0	.0	.4	1.7	.7	.3	.0	.0		3.0	
	22+	.3	.0	.3	.6	1.7	.3	.3	.3	.0		3.5	
	TOT %	.9	.0	.3	.9	3.9	1.2	.5	.4	.0	.0	8.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.3	.0	.0	.0	.0		.3	
	11-21	.0	.3	.0	.3	.3	.0	.0	.0	.0		.8	
	22+	1.0	.4	.1	.3	.3	.0	.0	.3	.0		2.3	
	TOT %	1.0	.6	.1	.5	.8	.0	.0	.3	.0	.0	3.3	
	0-3	.3	.0	.0	.3	.0	.0	.0	.0	.0	.3	.8	
1<2	4-10	.0	.0	.1	.1	.3	.0	.0	.0	.0		.5	
	11-21	.0	.1	.4	.0	.0	.5	.0	.3	.0		1.3	
	22+	.2	.0	.3	.1	.3	.6	.3	.3	.0		2.0	
	TOT %	.4	.1	.8	.4	.6	1.1	.3	.6	.0	.3	4.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.0	.3	.0	.0	.0	.0	.0	.0	.0		.3	
	11-21	.5	.0	.0	.0	1.4	.4	.3	.5	.0		3.0	
	22+	.4	.0	.0	.3	1.4	.1	.2	.6	.0		3.0	
	TOT %	.9	.3	.0	.3	2.8	.4	.4	1.1	.0	.0	6.3	
	0-3	.4	.0	.0	.0	.0	.3	.0	.1	.0	.0	.8	
5<10	4-10	.1	.0	.4	.6	.2	.3	2.0	.6	.0		4.3	
	11-21	2.3	1.1	.3	.5	2.4	4.9	4.1	1.0	.0		16.5	
	22+	3.1	.1	.0	.6	1.8	4.1	6.2	3.1	.0		19.0	
	TOT %	5.9	1.2	.6	1.8	4.3	9.6	12.3	4.9	.0	.0	40.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
10+	4-10	.1	1.0	.3	.3	1.3	1.9	1.7	.8	.0		7.3	
	11-21	3.1	2.0	.4	.0	2.5	2.8	4.8	3.4	.0		19.0	
	22+	.9	.3	.0	.6	1.4	2.6	4.0	1.3	.0		11.0	
	TOT %	4.1	3.3	.7	.8	5.2	7.3	10.5	5.6	.0	.0	37.5	
	TOT OBS												400
	TOT PCT	13.3	5.4	2.5	4.8	17.5	19.6	23.9	12.8	.0	.3	100.0	

DECEMBER

PERIOD: (PRIMARY) 1947-1970
(OVER-ALL) 1878-1970

AREA 0003 NE NEWFOUNDLAND COAST
48.7N 52.1W

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	18.4	.0	1.3	7.9	10.5	27.6	1.3	.0	3.9	1.3	72.4	27.6	76
06&09	13.4	.0	.0	7.3	12.2	25.6	2.4	.0	.0	.0	61.0	39.0	82
12&15	12.0	.0	1.1	6.5	27.2	21.7	4.3	3.3	3.3	.0	79.3	20.7	92
18&21	8.3	1.2	2.4	1.2	23.8	25.0	4.8	1.2	2.4	2.4	72.6	27.4	84
TOT	43	1	4	19	63	83	11	4	8	3	239	95	334
PCT	12.9	.3	1.2	5.7	18.9	24.9	3.3	1.2	2.4	.9	71.6	28.4	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	12.0	3.0	2.0	7.0	45.0	31.0	100
06&09	8.7	1.9	1.0	6.7	42.3	39.4	104
12&15	7.0	4.3	8.7	5.2	37.4	37.4	115
18&21	5.6	3.3	5.6	5.6	33.3	46.7	90
TOT	34	13	18	25	162	157	409
PCT	8.3	3.2	4.4	6.1	39.6	38.4	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 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	18.9	24.3	35.1	39.2	25.7	74
06&09	14.3	16.9	27.3	37.7	35.1	77
12&15	12.0	16.3	30.4	50.0	19.6	92
18&21	8.4	14.5	24.1	49.4	26.5	83
TOT	43	58	95	145	86	326
PCT	13.2	17.8	29.1	44.5	26.4	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
55/59	.0	.0	.0	.0	.0	.0	.0	.4	1	.4
50/54	.0	.0	.0	.0	.0	.0	.4	.0	1	.4
45/49	.0	.0	.0	.0	.0	.0	.8	.8	4	1.5
40/44	.0	.0	.0	.0	.4	.4	2.3	4.6	20	7.6
35/39	.0	.0	.0	.0	.0	3.4	7.3	14.1	65	24.8
30/34	.0	.0	.0	.0	4.2	11.1	11.5	13.4	105	40.1
25/29	.0	.0	.4	.0	1.5	5.3	6.1	5.0	48	18.3
20/24	.0	.0	.0	.0	.4	2.7	2.7	.4	16	6.1
15/19	.0	.0	.0	.0	.0	.0	.4	.4	2	.8
TOTAL	0	0	1	0	17	60	82	102	262	100.0
PCT	.0	.0	.4	.0	6.5	22.9	31.3	38.9		

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
.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.1	1.2	.2	.0	.0	.0	.0
.0	.0	.0	1.4	3.8	.9	1.3	.2	.0	.0
3.3	1.4	.4	1.0	9.4	5.5	2.7	1.0	.0	.0
5.7	3.1	1.0	1.6	3.8	10.3	9.9	4.7	.0	.0
2.7	1.8	.7	.1	.3	2.2	7.3	3.2	.0	.0
.2	.0	.0	.0	.4	.6	3.5	1.4	.0	.0
.0	.0	.0	.0	.0	.0	.4	.4	.0	.0
12.3	6.3	2.0	4.3	18.9	19.8	25.5	11.0	.0	.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	57	51	43	32	23	18	18	32.2	104
06&09	57	45	43	32	23	19	19	33.0	104
12&15	47	46	42	33	25	24	23	33.4	119
18&21	45	44	40	33	24	19	19	32.6	93
TOT	57	47	43	33	24	19	18	32.8	420

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	1.5	7.7	18.5	36.9	35.4	85	65
06&09	.0	.0	7.8	17.2	34.4	40.6	86	64
12&15	.0	.0	4.2	27.8	25.0	43.1	86	72
18&21	.0	.0	7.4	27.9	29.4	35.3	85	68
TOT	0	1	18	62	84	104	86	269

DECEMBER

PERIOD: (PRIMARY) 1947-1970
(OVER-ALL) 1878-1970

AREA 0003 NE NEWFOUNDLAND COAST
48.7N 52.1W

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	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.3	.6	3	.3	.6
9/10	.0	.0	.0	.0	.0	.0	.3	.3	2	.0	.6
7/8	.0	.0	.0	.0	.0	.9	.9	.9	9	.6	2.1
6	.0	.0	.0	.0	.0	.6	.0	.0	2	.0	.6
5	.0	.0	.0	.0	.6	2.4	.9	.0	13	.9	2.9
4	.0	.0	.0	.0	.9	1.8	.3	.3	11	.9	2.4
3	.0	.0	.0	.0	2.7	3.2	.6	.3	23	1.8	5.0
2	.0	.0	.0	.0	2.9	1.5	1.2	.3	20	1.2	4.7
1	.0	.0	.0	.0	4.7	1.5	.0	.3	22	.3	6.2
0	.0	.0	.0	1.2	3.5	1.5	.3	.0	22	.9	5.6
-1	.0	.0	.0	3.2	4.4	.9	.0	.0	29	.6	8.0
-2	.0	.0	.3	4.7	3.8	.0	.0	.0	30	.6	8.3
-3	.0	.0	.6	6.2	1.8	.9	.0	.0	32	.3	9.1
-4	.0	.0	3.5	3.8	1.2	.0	.0	.0	29	.3	8.3
-5	.0	.0	1.2	2.9	.6	.0	.0	.0	16	.0	4.7
-6	.0	.6	2.7	.9	.0	.0	.0	.0	14	.0	4.1
-7/-8	.0	.6	3.8	2.7	.6	.0	.0	.0	26	.0	7.7
-9/-10	.0	2.1	2.4	.9	.3	.0	.0	.0	19	.0	5.6
-11/-13	.0	1.5	.6	.3	.0	.0	.0	.0	8	.0	2.4
-14/-16	.9	.9	.6	.3	.0	.0	.0	.0	9	.0	2.7
TOTAL	3	19	53	92	95	51	16	10	339	29	310
PCT	.9	5.6	15.6	27.1	28.0	15.0	4.7	2.9	100.0	8.6	91.4

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	.9	.0	.0	.0	.0	.0	.9
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.9	.9	.0	.0	1.8
7	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	.9	.9	.0	.0	1.8
10-11	.0	.0	.0	1.8	.0	.0	1.8
12	.0	.0	.9	.7	.0	.0	1.5
13-16	.0	.0	.9	2.2	.7	.0	3.8
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	.9	.0	4.4	6.4	.7	.0	12.4

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	.9	.0	.0	.0	1.8
3-4	.0	.9	3.5	.0	.0	.0	4.4
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	1.8	4.4	.0	.0	.0	6.2

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	.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	.9	.0	.0	.9
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	.9	.0	.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	.9	.0	.0	.0	.0	.0	.9
3-4	.0	.0	.0	.4	.0	.0	.4
5-6	.0	.0	.0	.2	.0	.0	.2
7	.0	.0	.0	1.8	.0	.0	1.8
8-9	.0	.0	.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	.9	.0	.0	2.4	.0	.2	3.5

PERIOD: (OVER-ALL) 1963-1970

DECEMBER

AREA 0003 NE NEWFOUNDLAND COAST
48.7N 52.1W

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	1.8	.7	.0	.0	.0	2.4
1-2	.0	.0	.9	.0	.0	.0	.9
3-4	.0	3.5	3.3	1.3	.0	.0	8.2
5-6	.0	.0	3.8	1.5	.9	.0	6.2
7	.0	.0	2.7	.9	.0	.0	3.5
8-9	.0	.0	2.4	3.3	.0	.7	6.4
10-11	.0	.0	.0	.9	.0	.0	.9
12	.0	.0	.0	.9	.0	.0	.9
13-16	.0	.0	.0	.9	.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	.0	5.3	13.7	9.7	.9	.7	30.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.2	.0	.0	.0	2.0
1-2	.0	.9	.9	.0	.0	.0	1.8
3-4	.0	.0	.2	.9	.0	.0	1.1
5-6	.0	.0	2.7	.9	.9	.0	4.4
7	.0	.2	.2	.0	.0	.0	.4
8-9	.0	.0	2.0	.2	.0	.0	2.2
10-11	.0	.0	.9	1.8	.0	.0	2.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.9	1.8	.0	2.7
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	.0	2.9	7.1	4.6	2.7	.0	17.3

W

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	.7	.9	.9	.0	2.4
7	.0	.7	2.2	.0	.0	.0	2.9
8-9	.0	.0	.9	1.5	.0	.9	3.3
10-11	.0	.0	.7	.0	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	5.3	.0	.0	5.3
17-19	.0	.0	.0	.0	.9	.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	.0	1.5	5.3	7.7	1.8	.9	17.3

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	.9	.9	.0	.0	.0	1.8	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.9	.0	.0	.0	.9	
7	.0	.0	.2	.9	.0	.0	1.1	
8-9	.0	.0	.9	1.1	.0	.0	2.0	
10-11	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.9	1.1	.0	.0	2.0	
13-16	.0	.0	.0	2.2	.2	.0	2.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.9	.0	.9	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	4.0	5.3	1.1	.0	11.3	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	4.4	.9	.0	.0	.0	7.1	
1-2	.9	2.7	3.5	.0	.0	.0	7.1	
3-4	.0	4.4	8.0	2.7	.0	.0	15.0	
5-6	.0	.0	8.8	4.4	2.7	.0	15.9	
7	.0	.9	6.2	3.5	.0	.0	10.6	
8-9	.0	.0	7.1	7.1	.0	1.8	15.9	
10-11	.0	.0	1.8	4.4	.0	.0	6.2	
12	.0	.0	1.8	2.7	.0	.0	4.4	
13-16	.0	.0	.9	11.5	2.7	.0	15.0	
17-19	.0	.0	.0	.0	.9	.0	.9	
20-22	.0	.0	.0	.0	1.8	.0	1.8	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	12.4	38.9	36.3	8.0	1.8	100.0	113

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	.4	1.6	7.3	6.1	3.7	2.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	5
6-7	.0	.0	2.4	8.9	8.9	3.7	3.7	.4	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	7
8-9	.0	.4	.4	.8	3.3	6.9	5.3	2.0	3.7	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	59	10
10-11	.0	.0	.0	.8	2.0	1.6	2.0	1.2	2.4	.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	28	11
12-13	.0	.0	.0	.0	.0	2.8	.0	.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	10
>13	.0	.0	.0	.0	.0	.0	.4	.4	.8	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	6	16
INDET	1.2	.8	1.2	.8	.8	.8	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	5
TOTAL	4	7	28	43	46	45	28	11	26	1	6	1	0	0	0	0	0	0	0	246	8
PCT	1.6	2.8	11.4	17.5	18.7	18.3	11.4	4.5	10.6	.4	2.4	.4	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1887-1971
(OVER-ALL) 1869-1971

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.8W

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 SNOW BLWG	NO SIG WEA
N	6.0	2.0	3.2	.3	12.7	.4	*	24.0	1.6	.2	12.2	.4	.9	.1		60.7
NE	11.5	1.1	5.3	.8	10.3	.5	*	28.2	2.7	*	15.7	.4	2.0	.0		51.1
E	11.2	1.7	5.7	.4	11.0	.6	.0	29.7	1.5	.1	16.6	.7	1.8	.0		49.6
SE	10.3	1.8	3.6	.9	7.5	*	.2	23.8	2.7	.1	21.6	.3	1.6	.2		49.8
S	7.5	1.3	2.0	.3	4.1	.1	.0	14.5	1.6	.0	18.0	.7	1.9	*		63.3
SW	3.9	.6	1.0	.2	5.5	.2	.1	10.9	1.5	*	8.2	.5	2.5	.1		76.4
W	2.6	.9	1.1	.0	7.6	*	.2	12.2	1.2	.2	5.6	.2	1.6	.5		78.6
NW	2.7	.9	1.9	.3	11.8	.6	.1	17.5	2.2	*	10.8	.1	1.2	.1		68.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	2.7	1.2	10.2	.0	3.6	.0	.0	17.7	.9	.0	18.2	.0	1.8	.0		61.4
TOT PCT	5.9	1.1	2.4	.3	8.6	.3	.1	18.0	1.7	.1	12.8	.4	1.7	.2		65.2
TOT OBS:	9340															

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 SNOW BLWG	NO SIG WEA
00603	6.2	1.2	2.7	.3	9.5	.3	.1	19.8	1.2	.1	11.3	.4	1.6	.1		65.5
06609	6.6	1.4	2.5	.5	8.5	.2	*	18.8	2.1	.2	11.8	.2	1.2	.0		65.8
12615	5.6	1.1	2.1	.4	7.8	.4	.2	16.9	1.5	.0	14.8	.5	1.8	.3		64.3
18621	5.6	1.0	2.2	.1	8.6	.2	.1	17.0	1.9	.1	12.8	.5	1.9	.2		65.5
TOT PCT	5.9	1.1	2.4	.3	8.5	.3	.1	18.0	1.6	.1	12.9	.4	1.6	.2		65.3
TOT OBS:	9503															

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	3.5	5.8	3.2	.6	.1		13.7	16.6	14.8	13.9	14.3	13.7	12.5	12.5	13.1	15.7
NE	.4	2.2	2.8	1.2	.2	*		6.8	13.9	7.6	6.1	5.9	4.4	6.3	6.8	6.9	8.4
E	.4	2.1	2.4	.6	.2	.0		5.7	13.9	6.2	4.8	4.1	4.8	5.7	5.7	6.1	5.4
SE	.5	2.9	3.7	1.4	.3	*		8.8	15.1	11.4	7.4	6.9	6.7	8.5	8.0	8.6	8.3
S	.6	4.4	7.9	2.8	.4	.1		16.2	15.6	16.4	19.2	16.6	14.2	15.7	15.6	16.7	18.6
SW	.6	4.9	9.1	3.4	.5	*		18.5	15.7	16.4	20.0	20.2	20.8	19.6	20.7	18.2	15.2
W	.4	3.0	6.5	3.8	.9	.1		14.7	17.0	12.7	15.4	16.3	19.8	16.2	14.9	13.3	11.9
NW	.3	3.1	5.8	3.7	.9	.1		13.9	17.6	12.6	12.4	13.2	14.3	13.4	15.2	15.8	15.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0	1.8	.8	2.6	1.1	2.0	.7	1.4	.8
TOT OBS							9842		15.9	2072	458	1557	370	2155	738	1991	501
TOT PCT	5.5	26.1	44.0	20.1	3.9	.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	1.8	5.4	4.7	1.6	.2		13.7	16.6	14.6	14.3	12.5	13.8
NE	1.2	3.3	1.6	.7	*		6.8	13.9	7.3	5.6	6.5	7.4
E	1.2	2.9	1.2	.4	*		5.7	13.9	5.9	4.4	5.8	6.2
SE	1.4	4.3	2.4	.7	.1		8.8	15.1	10.6	6.9	8.5	8.7
S	2.1	7.8	5.0	1.2	.1		16.2	15.6	16.9	18.0	15.5	16.5
SW	2.3	8.5	6.3	1.3	.2		18.5	15.7	17.0	20.1	20.0	17.3
W	1.4	5.6	5.2	2.2	.3		14.7	17.0	13.4	16.6	15.7	13.2
NW	1.4	5.3	4.9	2.0	.3		13.9	17.6	12.6	13.7	13.9	15.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	1.7	2.3	1.7	1.2
TOT OBS						9842		15.9	2330	1927	2893	2492
TOT PCT	14.4	43.0	31.3	10.1	1.2		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	1.7	4.5	28.7	41.3	19.5	4.0	.3	15.5	100.0	2530
06&09	2.3	3.4	25.6	44.0	19.5	4.8	.3	16.1	100.0	1927
12&15	1.7	4.3	26.4	43.8	20.0	3.8	.1	15.7	100.0	2893
18&21	1.2	3.1	23.5	46.6	21.6	3.4	.6	16.5	100.0	2492
TOT								15.9		9842
PCT	1.7	3.9	26.1	44.0	20.1	3.9	.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	1.5	.7	2.3	9.4		6.6
NE	.8	.2	1.2	4.9		6.7
E	.6	.3	.8	3.8		6.8
SE	.9	.5	1.1	6.0		6.8
S	2.8	1.1	3.4	8.8		6.1
SW	5.1	1.9	4.5	6.9		5.1
W	3.8	1.8	4.1	5.2		5.0
NW	2.0	1.1	3.3	7.6		6.1
VAR	.0	.0	.0	.0		.0
CALM	.5	.2	.3	.8		5.3
TOT OBS					7940	6.0
TOT PCT	18.0	7.7	21.0	53.2	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	1.9	.4	.8	2.0	2.9	2.0	.5	.1	.3	*	2.9	
NE	.9	.3	.4	1.1	1.4	.8	.3	.1	.1	*	1.6	
E	1.1	.1	.2	.6	1.1	.5	.2	.1	.2	.1	1.4	
SE	1.8	.1	.4	1.2	1.4	.8	.3	.1	.2	.1	2.2	
S	2.7	*	.4	1.4	2.2	1.5	.4	.2	.6	.5	6.2	
SW	1.2	.1	.3	1.3	2.5	1.7	.4	.3	.8	.3	9.6	
W	.6	.1	.3	1.0	2.7	2.3	.5	.1	.3	.1	6.9	
NW	1.4	.2	.5	1.5	3.3	2.1	.3	.1	.2	.1	4.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	*	.0	.1	.2	.1	.1	*	.1	*	.8	
TOT OBS												7940
TOT PCT	11.9	1.3	3.3	10.4	17.6	11.7	3.0	.9	2.8	1.3	35.7	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	2.8	3.9	4.1	4.1	4.1	4.2	4.2	4.2
* OR >5000	3.3	4.8	5.0	5.0	5.0	5.1	5.1	5.1
* OR >3500	4.9	7.4	7.9	7.9	8.0	8.0	8.0	8.0
* OR >2000	10.7	17.8	19.3	19.6	19.7	19.8	19.8	19.8
* OR >1000	17.5	31.5	35.4	36.4	37.1	37.3	37.4	37.4
* OR >600	20.9	38.3	44.0	46.1	47.3	47.6	47.8	47.9
* OR >300	21.1	39.5	46.1	48.9	50.4	50.8	51.1	51.1
* OR >150	21.1	39.7	46.5	49.7	51.4	52.0	52.4	52.4
* OR > 0	21.2	40.1	48.0	52.3	55.7	59.0	63.2	64.3

TOTAL NUMBER OF OBS: 7977 PCT FREQ NH <5/8: 35.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
13.1	6.9	7.1	5.2	3.2	4.9	7.9	7.4	33.4	11.2	8221

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PERIOD: (PRIMARY) 1887-1971
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49.0N 52.8W

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	.5	.2	.2	.3	.3	.2	.2	.2	.0	.0	2.2	
<1/2	NO PCP	.9	.5	.6	1.1	2.1	.9	.3	.7	.0	.2	7.2	
	TOT %	1.4	.7	.8	1.4	2.3	1.2	.5	.9	.0	.2	9.3	
	PCP	.4	.4	.2	.2	.2	.1	.2	.2	.0	.0	1.9	
1/2<1	NO PCP	.2	.2	.1	.3	.4	.2	.1	.3	.0	*	1.8	
	TOT %	.7	.5	.3	.6	.6	.3	.2	.5	.0	*	3.7	
	PCP	.7	.4	.3	.3	.2	.3	.1	.3	.0	*	2.6	
1<2	NO PCP	.3	.1	.2	.2	.2	.2	.1	.2	.0	*	1.6	
	TOT %	1.0	.6	.5	.5	.4	.5	.2	.5	.0	.1	4.2	
	PCP	.9	.4	.3	.4	.7	.4	.5	.7	.0	.1	4.3	
2<5	NO PCP	.7	.3	.2	.5	.8	.7	.3	.4	.0	.1	4.1	
	TOT %	1.5	.7	.6	1.0	1.5	1.1	.8	1.1	.0	.2	8.4	
	PCP	.8	.6	.4	.6	.6	.8	.9	.9	.0	.1	5.7	
5<10	NO PCP	3.6	1.6	1.4	1.8	3.8	4.5	4.3	3.6	.0	.2	24.9	
	TOT %	4.4	2.2	1.8	2.4	4.5	5.3	5.2	4.5	.0	.3	30.6	
	PCP	.2	*	.1	.1	.2	.2	.2	.2	.0	*	1.3	
10+	NO PCP	4.6	2.1	1.7	2.8	6.7	9.9	7.6	6.2	.0	.8	42.4	
	TOT %	4.8	2.1	1.7	2.9	6.9	10.1	7.8	6.4	.0	.9	43.7	
	TOT OBS												9317
	TOT PCT	13.8	6.8	5.7	8.8	16.2	18.4	14.8	13.9	.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
	0-3	.1	*	.1	.1	*	*	*	.1	.0	.2	.6	
<1/2	4-10	.5	.3	.3	.6	.6	.3	.2	.4	.0		3.1	
	11-21	.5	.3	.4	.6	1.2	.6	.1	.3	.0		3.9	
	22+	.3	.1	.1	.2	.5	.2	.1	.2	.0		1.7	
	TOT %	1.4	.7	.8	1.5	2.3	1.1	.5	.9	.0	.2	9.3	
	0-3	*	*	*	*	*	*	.0	*	.0	*	.1	
1/2<1	4-10	.1	.1	.1	.2	.1	.1	*	.1	.0		.8	
	11-21	.2	.3	.1	.2	.3	.1	.1	.2	.0		1.5	
	22+	.3	.1	.1	.1	.2	*	.1	.2	.0		1.2	
	TOT %	.6	.5	.3	.5	.6	.3	.2	.5	.0	*	3.6	
	0-3	.1	*	*	.1	*	*	*	*	.0	.1	.3	
1<2	4-10	.2	.1	.1	.1	.1	.1	*	.1	.0		.8	
	11-21	.3	.3	.2	.2	.2	.2	.1	.2	.0		1.7	
	22+	.4	.2	.1	.1	.1	.1	.1	.2	.0		1.4	
	TOT %	1.0	.6	.5	.5	.4	.5	.2	.5	.0	.1	4.2	
	0-3	*	*	*	*	.1	*	*	.0	.0	.2	.3	
2<5	4-10	.2	.2	.2	.2	.2	.3	.2	.2	.0		1.7	
	11-21	.7	.3	.2	.4	.8	.5	.3	.4	.0		3.8	
	22+	.5	.1	.2	.3	.4	.2	.3	.4	.0		2.5	
	TOT %	1.5	.7	.6	.9	1.5	1.0	.8	1.1	.0	.2	8.3	
	0-3	.1	.2	.1	.1	.2	.2	.1	.1	.0	.3	1.4	
5<10	4-10	.9	.7	.8	.8	1.3	1.2	.9	.9	.0		7.3	
	11-21	1.9	.8	.6	.9	1.9	2.6	2.0	1.8	.0		12.6	
	22+	1.4	.5	.2	.5	1.0	1.2	2.1	1.7	.0		8.7	
	TOT %	4.3	2.2	1.8	2.4	4.4	5.2	5.1	4.5	.0	.3	30.0	
	0-3	.3	.2	.2	.2	.3	.3	.2	.1	.0	.9	2.7	
10+	4-10	1.5	.9	.7	1.0	2.0	2.9	1.7	1.5	.0		12.2	
	11-21	2.2	.8	.8	1.4	3.6	5.0	3.9	3.0	.0		20.7	
	22+	1.0	.3	.1	.4	1.1	2.1	2.1	1.9	.0		9.0	
	TOT %	4.9	2.3	1.8	3.0	7.0	10.2	8.0	6.6	.0	.9	44.6	
	TOT OBS												9556
	TOT PCT	13.7	6.9	5.7	8.8	16.2	18.4	14.8	13.9	.0	1.6	100.0	

ANNUAL

PERIOD: (PRIMARY) 1887-1971
(OVER-ALL) 1869-1971

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.8W

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	12.5	1.1	2.8	10.0	15.2	10.8	3.2	1.1	2.9	1.4	61.0	39.0	2052
06&09	15.1	.8	2.1	10.7	17.4	10.3	2.3	.6	2.9	.9	63.2	36.8	1682
12&15	11.3	1.6	4.3	9.9	19.2	12.1	3.1	1.2	2.7	1.3	66.7	33.3	2219
18&21	9.3	1.3	3.4	10.8	18.3	13.0	3.1	.7	3.1	1.4	64.5	35.5	2144
TOT													8097
PCT	11.8	1.3	3.3	10.3	17.5	11.7	3.0	.9	2.9	1.3	63.9	36.1	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	8.9	3.7	4.2	8.2	31.9	43.1	2478
06&09	9.2	3.4	3.6	9.4	27.8	46.6	1912
12&15	10.3	4.1	4.5	7.5	30.9	42.6	2851
18&21	8.7	3.0	4.2	8.2	28.2	47.7	2483
TOT							9724
PCT	9.4	3.6	4.1	8.2	30.0	44.7	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	12.8	18.4	33.5	29.0	37.5	2021
06&09	15.4	19.9	35.2	29.5	35.3	1647
12&15	11.2	19.7	33.5	34.7	31.9	2189
18&21	9.3	16.5	33.9	32.6	33.6	2120
TOT						7977
PCT	11.9	18.6	34.0	31.5	34.5	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	.0		.1
75/79	.0	*	.1	.1	.1	*	*	*		.3
70/74	.0	*	.1	.1	.2	.2	.1	.0		.7
65/69	.0	*	.1	.3	.6	.6	.3	.2		2.1
60/64	.0	*	.1	.3	.6	1.0	1.2	1.0		4.2
55/59	.0	*	.1	.3	.7	1.5	2.7	2.5		7.8
50/54	.0	*	*	.3	.6	1.4	3.2	4.6		10.3
45/49	.0	.0	.1	.3	.9	1.4	3.2	4.5		10.4
40/44	.0	*	.1	.2	.4	1.9	3.0	4.6		10.7
35/39	.0	*	*	.2	1.1	3.2	5.3	8.3		18.2
30/34	.0	.0	*	.2	1.0	3.1	5.7	8.9		18.9
25/29	.0	.0	.1	.2	.6	2.4	2.6	2.2		8.0
20/24	.0	.0	*	.2	.4	1.3	1.6	.8		4.3
15/19	.0	.0	*	.1	.2	.7	.8	.2		2.0
10/14	*	*	.1	.1	.3	.2	.4	.1		1.3
5/9	.0	.0	.0	.1	.1	.2	.1	*		.4
0/4	.0	.0	*	.0	.1	*	.1	.1		.3
-1/-4	.0	.0	.0	.0	*	.0	.0	*		.1
-5/-9	.0	.0	.0	.0	*	*	.0	*		.1
TOTAL									7344	100.0
PCT	*	.3	.9	3.0	8.2	19.3	30.4	38.0		

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	.1	.1	.1	*	.0	.0
*	*	*	*	.3	.2	.1	*	.0	*
.1	.1	.1	.1	.6	.7	.2	.1	.0	.1
.2	.1	.3	.4	1.1	1.3	.4	.3	.0	.1
.5	.4	.6	1.0	1.8	1.9	.9	.6	.0	.2
1.1	.7	.7	1.4	2.2	2.0	1.0	1.0	.0	.2
1.4	.7	.6	1.2	2.2	1.8	.9	1.4	.0	.3
1.3	.7	.6	1.1	2.2	1.9	1.3	1.6	.0	.2
3.2	1.4	1.3	1.4	2.7	2.9	1.9	3.1	.0	.3
3.8	2.2	1.1	1.2	1.9	2.8	2.8	3.1	.0	.1
1.3	.6	.3	.4	.4	1.2	2.1	1.5	.0	.1
.5	.2	.1	.1	.2	.6	1.5	1.1	.0	.1
.2	*	*	.1	.1	.5	.7	.4	.0	*
.1	*	.0	*	.1	.2	.7	.2	.0	*
*	.0	.0	.0	.0	.1	.3	*	.0	*
.0	.0	.0	.0	*	.1	.1	*	.0	*
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
.0	.0	.0	.0	*	*	*	*	.0	.0
13.7	7.1	5.6	8.5	15.8	18.3	15.1	14.4	.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	55	50	39	30	26	-4	42.7	2560
06&09	76	56	49	39	28	24	-8	42.2	1944
12&15	78	55	50	40	30	25	-7	42.4	2921
18&21	82	58	53	41	32	28	7	44.0	2517
TOT	82	57	51	40	30	25	-8	42.9	9942

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	7.5	19.1	32.5	38.3	85	1927
06&09	.0	.8	5.3	16.7	32.6	44.3	87	1509
12&15	.0	3.3	8.5	19.9	28.4	39.9	84	2113
18&21	.1	9.1	10.5	20.8	29.1	30.5	80	1883
TOT	1	333	647	1413	2262	2776	84	7432

ANNUAL

PERIOD: (PRIMARY) 1887-1971
(OVER-ALL) 1869-1971

TABLE 17

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.8W

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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	.0	2	.0	*
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	*	*	8	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.1	*	*	*	20	.0	.2
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	.1	.1	.1	.1	.1	*	.0	50	.0	.5
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.2	.2	.2	.1	*	.0	104	.1	1.0
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.2	.4	.1	.2	.3	.4	.4	.1	*	*	.0	197	.2	1.9
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.3	.3	.2	.4	.4	.3	.1	*	.0	.0	237	.2	2.4
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.1	.7	.5	.4	.5	.7	.4	.2	.2	*	.0	.0	435	.5	4.5
6	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.3	.4	.4	.6	.4	.3	.1	*	.0	.0	.0	311	.7	2.9
5	.0	.0	.0	.0	.0	.0	.0	*	1.0	1.1	.8	.5	.5	.7	.5	.4	.1	*	.0	.0	.0	474	1.1	4.7
4	.0	.0	.0	.0	.0	.0	.0	.1	1.5	1.2	.5	.6	.6	.7	.5	.2	.1	.0	.0	.0	.0	486	1.4	4.6
3	.0	.0	.0	.0	.0	.0	.0	.4	2.8	1.5	.9	.6	.7	.8	.5	.1	.1	*	.0	.0	.0	616	2.0	6.3
2	.0	.0	.0	.0	.0	.0	.0	1.0	2.6	1.4	.9	.7	.9	.8	.5	.1	*	.0	.0	.0	.0	666	1.7	7.2
1	.0	.0	.0	.0	.0	.0	.0	1.7	2.2	1.6	.7	.6	1.0	.7	.3	.1	*	.0	.0	.0	.0	683	1.3	7.6
0	.0	.0	.0	.0	.0	.0	*	1.9	1.8	1.0	.6	.7	.9	.7	.2	*	*	.0	.0	.0	.0	616	1.2	6.8
-1	.0	.0	.0	.0	.0	.0	.2	1.6	1.3	.7	.4	.6	.6	.5	.2	*	.0	.0	.0	.0	.0	493	1.2	5.0
-2	.0	.0	.0	.0	.0	.0	.7	1.6	.9	.6	.4	.5	.4	.4	.1	*	.0	.0	.0	.0	.0	419	.6	5.0
-3	.0	.0	.0	.0	.0	.0	1.1	1.3	.6	.5	.3	.6	.3	.3	.1	*	.0	.0	.0	.0	.0	379	.3	4.8
-4	.0	.0	.0	.0	.0	*	1.3	1.0	.7	.2	.3	.4	.3	.1	*	.0	.0	.0	.0	.0	.0	302	.2	4.1
-5	.0	.0	.0	.0	.0	.1	.9	.5	.6	.4	.3	.4	.2	.1	*	.0	.0	.0	.0	.0	.0	270	.2	3.3
-6	.0	.0	.0	.0	.0	.4	.8	.5	.5	.2	.2	.2	.2	*	*	.0	.0	.0	.0	.0	.0	224	.1	3.0
-7/-8	.0	.0	.0	.0	*	.8	.9	.5	.4	.3	.3	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	260	*	3.5
-9/-10	.0	.0	.0	.0	.3	1.0	.4	.3	.2	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	178	*	2.7
-11/-13	.0	.0	.0	.0	.8	.7	.1	*	.2	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	136	*	2.0
-14/-16	.0	.0	.0	.5	.5	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	.0	1.2
-17/-19	.0	.0	.2	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	.0	.7
-20/-22	.0	*	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	.0	.4
-23/-25	.0	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	*	.2
-26/-30	.1	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	.0	.3
<-30	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
TOTAL																						7733		
PCT	.2	.3	.6	1.1	1.7	3.1	6.5	12.4	18.0	12.9	8.5	8.4	8.1	7.5	5.0	2.8	1.6	.8	.3	.1	*	100.0	13.1	86.9

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	.2	1.0	.2	.0	.0	.0	1.3
1-2	.1	1.0	.7	.0	.0	.0	1.7
3-4	.0	.5	1.4	.8	.0	.0	2.7
5-6	.0	.3	1.4	.5	.3	.0	2.5
7	*	*	1.1	.4	*	.0	1.6
8-9	.0	*	.6	.4	*	.0	1.1
10-11	.0	*	.3	.5	.0	.0	.8
12	.0	.0	.1	.3	*	.0	.4
13-16	.0	.0	.2	.7	.4	.0	1.2
17-19	.0	.0	*	.2	.1	*	.4
20-22	.0	.0	.0	.0	*	.1	.1
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	.3	2.8	5.9	3.8	.9	.2	13.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.1	.0	.0	.0	.9
1-2	.1	.6	.4	.0	.0	.0	1.1
3-4	.0	.2	1.3	.0	.0	.0	1.6
5-6	.1	.2	.3	.3	*	.0	.9
7	.0	*	.4	.1	.1	.0	.6
8-9	.0	*	.3	.1	.0	.0	.4
10-11	.0	.0	.1	.1	*	.0	.2
12	.0	.0	.0	.1	.1	.0	.1
13-16	.0	.0	.1	.0	.1	.0	.2
17-19	.0	.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	.3	1.7	2.9	.8	.3	*	6.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.2	.1	.0	.0	.0	.6
1-2	.0	.5	.3	.0	.0	.0	.8
3-4	.0	.3	.8	.1	.0	.0	1.2
5-6	.0	.1	.6	.2	.0	.0	.9
7	.0	.1	.5	.1	.0	.0	.8
8-9	.0	*	.1	.2	.1	.0	.4
10-11	.0	*	.0	.1	.1	.0	.2
12	.0	.0	.0	.3	*	.0	.4
13-16	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.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	1.4	2.4	1.0	.3	.0	5.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.1	*	.0	.0	.0	1.2
1-2	.2	.8	.7	.0	.0	.0	1.7
3-4	.0	.3	.9	.2	.0	.0	1.4
5-6	.0	.3	.9	.5	.0	.0	1.7
7	.0	*	.9	.4	.0	.0	1.3
8-9	.0	.0	.1	.4	.2	*	.7
10-11	.0	.0	.1	.5	.1	.0	.7
12	.0	.0	*	.1	.1	*	.2
13-16	.0	.0	.1	.0	.2	.0	.3
17-19	.0	.0	.0	*	.1	*	.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	.3	2.5	3.8	2.1	.6	.1	9.3

PERIOD: (OVER-ALL) 1963-1971

ANNUAL

TABLE 18 (CONT)

AREA 0009 NE NEWFOUNDLAND COAST 49.0N 52.0W

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	1.3	.4	.0	.0	.0	1.9
1-2	*	1.6	1.0	.0	.0	.0	2.6
3-4	*	1.2	2.8	.5	.0	.0	4.7
5-6	*	.3	2.2	.6	.1	.0	3.2
7	.0	.2	1.6	.4	.1	.0	2.4
8-9	.0	.0	.8	1.0	.0	.1	1.8
10-11	.0	.0	.2	.5	.0	.0	.7
12	.0	.0	.1	.2	.0	*	.3
13-16	.0	.0	*	.1	.1	.1	.3
17-19	.0	.0	*	*	.0	.1	.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	.4	4.6	9.1	3.5	.2	.2	18.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.1	.6	.0	.0	.0	1.9
1-2	*	1.3	1.0	.0	.0	.0	2.4
3-4	.0	1.2	2.6	.5	.0	.0	4.4
5-6	*	.2	2.2	.7	.2	.0	3.3
7	.0	.1	1.2	.6	.1	.1	2.0
8-9	.0	.1	.7	.7	*	.0	1.4
10-11	.0	*	.2	.7	.2	.0	1.1
12	.0	*	.1	.2	*	.0	.3
13-16	.0	.0	.0	.3	.1	.0	.4
17-19	.0	.0	.0	.1	.1	.0	.1
20-22	.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	4.0	8.5	3.9	.7	.1	17.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.2	.0	.0	.0	.7
1-2	.0	.8	.7	.0	.0	.0	1.4
3-4	.0	.6	1.5	.3	.0	.0	2.4
5-6	.0	.0	1.2	.7	.3	.0	2.1
7	.0	.1	1.3	.8	.2	.1	2.4
8-9	.0	*	.6	.8	.1	.1	1.5
10-11	.0	.0	.2	.4	.2	.0	.8
12	.0	.0	.1	.2	*	.0	.3
13-16	.0	.0	.1	.6	.2	.0	.9
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.1	.1	.0	.2
23-25	.0	.0	.0	.0	.1	.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	.1	2.0	5.8	3.7	1.4	.2	13.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.2	.2	.0	.0	.0	1.4	
1-2	*	.8	.7	.0	.0	.0	1.6	
3-4	.0	.2	1.5	.4	.0	.0	2.0	
5-6	.1	.1	1.2	.8	*	.0	2.2	
7	.0	.1	1.3	.9	*	.0	2.3	
8-9	.0	.1	.6	.8	.1	.0	1.7	
10-11	.0	*	.3	.8	.2	.0	1.3	
12	.0	*	.2	.5	.1	.0	.8	
13-16	.0	.0	.1	.5	.3	.0	1.0	
17-19	.0	.0	.0	.3	*	*	.3	
20-22	.0	.0	.0	.0	.1	.0	.1	
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	.1	2.6	6.1	5.0	1.0	*	14.8	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	3.2	6.9	1.7	.0	.0	.0	11.8	
1-2	.5	7.5	5.4	.0	.0	.0	13.4	
3-4	.1	4.6	12.8	2.8	.0	.0	20.3	
5-6	.2	1.5	9.9	4.2	.9	.0	16.6	
7	*	.6	8.5	3.7	.5	.2	13.6	
8-9	.0	.2	3.7	4.4	.5	.1	8.9	
10-11	.0	.1	1.4	3.6	.8	.0	5.9	
12	.0	.1	.5	1.9	.4	.1	2.9	
13-16	.0	.0	.6	2.2	1.4	.1	4.3	
17-19	.0	.0	.1	.6	.4	.1	1.2	
20-22	.0	.0	.0	.1	.4	.1	.6	
23-25	.0	.0	.0	.0	.2	.1	.3	
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	4.0	21.5	44.6	25.6	5.5	.8	100.0	2108

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	1.0	5.3	11.6	6.8	4.0	1.1	.5	.1	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1250	4
6-7	.0	.7	4.4	6.4	7.2	3.9	3.0	1.6	1.8	.4	.1	*	.0	.0	.0	.0	.0	.0	.0	1163	7
8-9	.0	.2	.9	2.8	3.2	2.8	2.7	1.5	1.7	.5	.2	.1	.1	*	.0	.0	.0	.0	.0	631	9
10-11	.0	.2	.2	.5	1.8	1.1	.9	.7	1.4	.6	.3	.2	.0	.0	.0	.0	.0	.0	.0	274	10
12-13	.0	.0	.1	.2	.1	.5	.3	.2	.5	.3	*	.0	.1	.0	.0	.0	.0	.0	.0	83	11
>13	.0	*	.0	*	.1	.5	.1	.1	.5	*	.1	.1	.0	.0	.0	.0	.0	.0	.0	54	11
INDET	2.1	2.1	2.2	1.4	.9	.7	.7	.2	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	435	4
TOTAL PCT	3.2	8.5	19.5	18.1	17.3	10.7	8.2	4.5	6.6	1.8	.9	.4	.2	*	.0	.0	.0	.0	.0	3890 100.0	6

PERIOD: (PRIMARY) 1887-1971
(OVER-ALL) 1869-1971

AREA 0003 NE NEWFOUNDLAND COAST
49.0N 52.8W

TABLE 20

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

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	*
67/68	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	4	*
65/66	.0	.0	.0	.0	.0	.0	.1	.7	.0	.0	.0	.0	9	.1
63/64	.0	.0	.0	.0	.0	.0	1.2	4.4	.4	.0	.0	.0	66	.8
61/62	.0	.0	.0	.0	.0	.0	1.8	5.0	.6	.0	.0	.0	82	1.0
59/60	.0	.0	.0	.0	.0	.0	3.1	8.3	3.0	.0	.0	.	159	2.0
57/58	.0	.0	.0	.0	.0	.0	3.3	15.1	7.9	.3	.0	.0	296	3.6
55/56	.0	.0	.0	.0	.0	.1	6.6	22.3	18.2	2.1	.0	.0	544	6.7
53/54	.0	.0	.0	.0	.0	.8	12.1	18.5	18.1	1.0	.0	.0	552	6.8
51/52	.0	.0	.0	.0	.0	2.2	14.1	13.4	23.1	5.0	.1	.0	618	7.6
49/50	.0	.0	.0	.0	.0	3.4	19.5	8.5	16.4	18.2	.3	.0	686	8.4
47/48	.0	.0	.0	.0	.2	4.7	16.0	2.4	7.7	21.0	2.3	.0	539	6.6
45/46	.0	.0	.0	.0	2.0	6.6	11.2	.9	2.5	20.6	4.5	.5	454	5.6
43/44	.0	.0	.3	.7	4.2	11.7	6.7	.0	1.3	10.3	7.2	.8	349	4.3
41/42	.2	.7	.4	1.4	2.8	16.0	2.6	.1	.6	12.7	12.3	2.9	396	4.9
39/40	.7	.4	1.1	2.1	6.5	19.4	1.2	.0	.2	5.5	26.6	3.7	456	5.6
37/38	1.6	1.1	1.2	1.1	12.7	21.9	.5	.0	.1	2.6	23.5	15.1	495	6.1
35/36	12.4	4.3	2.6	6.8	23.6	9.4	.0	.0	.0	.5	17.4	24.5	520	6.4
33/34	19.9	11.8	14.3	22.8	26.6	3.2	.0	.0	.0	.0	5.1	30.5	579	7.1
31/32	42.6	58.2	28.6	32.6	15.5	.4	.0	.0	.0	.0	.6	19.4	840	10.3
29/30	20.1	22.4	45.4	32.4	5.4	.1	.0	.0	.0	.0	.1	2.6	473	5.8
27/28	2.4	1.1	5.9	.4	.4	.0	.0	.0	.0	.0	.0	.0	38	.5
<27	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	*
TOTAL	578	459	273	281	496	726	1042	1149	1080	998	693	383	8158	100.0
MEAN	32.2	31.7	31.1	32.5	35.4	40.7	50.1	55.2	52.4	46.0	39.2	34.8	40.1	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1009	1008	1008	1005	1008	1009	1008	1009	1008	705
FEB	1008	1009	1008	1012	1009	1009	1006	1007	1008	585
MAR	1006	1005	1002	1001	1007	1006	1005	1007	1005	532
APR	1012	1012	1011	1012	1012	1011	1011	1011	1012	526
MAY	1015	1013	1013	1013	1014	1014	1013	1013	1014	570
JUN	1013	1012	1013	1013	1013	1015	1012	1014	1013	732
JUL	1014	1015	1013	1012	1014	1014	1014	1014	1014	1089
AUG	1013	1013	1013	1012	1013	1015	1013	1014	1013	1214
SEP	1015	1016	1015	1017	1019	1016	1015	1018	1015	1112
OCT	1012	1012	1012	1012	1012	1015	1011	1017	1012	1053
NOV	1016	1010	1015	1012	1014	1014	1013	1016	1014	744
DEC	1015	1014	1016	1017	1013	1009	1012	1013	1014	376
ANN	1012	1012	1012	1012	1012	1012	1011	1013	1012	9238
OBS	1956	391	1528	361	2039	599	1939	431		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	967	975	985	999	1009	1017	1028	1036	1041
FEB	961	978	985	1000	1009	1017	1027	1041	1045
MAR	965	967	976	995	1006	1017	1029	1034	1042
APR	981	983	993	1004	1012	1019	1026	1033	1037
MAY	990	993	1000	1008	1015	1019	1028	1033	1035
JUN	992	996	1000	1008	1013	1018	1023	1028	1035
JUL	987	958	1002	1010	1014	1018	1024	1028	1032
AUG	989	996	1002	1009	1014	1018	1024	1028	1032
SEP	991	995	1001	1010	1016	1021	1027	1030	1033
OCT	977	983	992	1006	1013	1019	1026	1031	1035
NOV	964	980	991	1008	1015	1023	1031	1035	1038
DEC	964	983	994	1006	1014	1022	1032	1036	1038

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PERIOD: (PRIMARY) 1942-1971
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AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

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	4.3	2.3	3.1	.0	14.2	.0	.0	22.1	3.8	.0	8.7	.4	.0	.4		64.5
NE	4.4	3.4	1.6	1.0	23.6	.2	.0	31.5	8.6	.0	12.0	.0	.8	.0		47.1
E	7.8	1.8	.7	.7	19.5	.7	.0	26.8	4.1	.0	11.0	1.1	.0	.0		57.0
SE	13.5	1.8	5.9	.2	13.2	.0	.9	33.3	2.1	.0	12.1	1.6	.2	.9		49.8
S	15.5	3.3	4.2	.3	8.2	.0	.0	30.6	2.7	.0	14.6	2.1	.9	.0		49.1
SW	4.6	1.8	2.8	.0	13.2	.4	.4	21.8	4.5	.0	8.7	.5	.6	.0		63.8
W	1.6	.6	.6	.2	14.6	.0	.4	17.5	4.1	.0	4.0	.0	.2	.0		74.1
NW	1.2	.5	.3	.3	15.3	.0	.3	16.8	5.3	.0	2.5	.0	.3	.3		74.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	7.1	7.1	.0	.0	.0	.0	14.3	7.1	.0	21.4	.0	.0	.0		57.1
TOT PCT	5.2	1.7	2.1	.3	14.4	.1	.3	22.6	4.4	.0	7.9	.5	.4	.2		64.0
TOT OBS:	1835															

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	5.0	2.4	2.8	.4	15.0	.2	.0	24.3	3.9	.0	5.2	.9	.9	.0		64.9
06&09	5.9	1.2	2.7	.0	14.8	.2	.2	22.5	5.1	.0	7.2	.4	.2	.2		64.3
12&15	5.6	1.5	1.2	.4	11.6	.0	.4	20.1	3.7	.0	9.5	.2	.2	.2		66.0
18&21	4.0	1.9	1.6	.2	16.2	.0	.5	23.3	4.5	.0	10.1	.7	.2	.2		60.9
TOT PCT	5.2	1.7	2.1	.3	14.3	.1	.3	22.5	4.3	.0	8.0	.5	.4	.2		64.1
TOT OBS:	1856															

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	4.3	4.3	.8	.1		11.6	19.9	10.8	11.8	11.8	15.7	11.7	11.3	10.1	14.1
NE	.1	1.3	2.5	2.1	.6	.1		6.7	19.8	9.9	6.2	6.2	5.2	5.9	4.8	5.5	11.2
E	.2	1.3	2.6	1.3	.3	*		5.8	16.9	5.3	7.2	4.9	6.4	5.3	5.4	7.5	5.6
SE	.1	1.2	2.7	1.1	.8	.2		6.1	19.7	6.7	7.8	5.7	6.4	5.9	5.9	5.6	6.5
S	.3	2.9	4.3	2.9	.9	.1		11.4	18.3	10.7	12.6	11.6	10.7	11.9	14.1	10.5	9.4
SW	.1	2.8	7.7	4.2	.7	.1		15.6	18.5	15.4	16.2	16.8	12.8	13.6	12.7	18.1	17.1
W	.3	3.6	8.6	9.0	2.8	.3		24.7	21.9	25.1	23.0	23.9	24.4	25.5	25.8	24.9	22.4
NW	.1	3.1	6.4	5.5	1.8	.4		17.3	21.0	15.5	15.2	17.8	17.6	18.8	19.9	17.5	13.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0	.5	.0	1.2	.8	1.4	.0	.2	.0
TOT OBS	47	401	860	666	189	29	2192		19.9	404	153	422	121	442	161	404	85
TOT PCT	2.1	18.3	39.2	30.4	8.6	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	.9	3.7	4.3	2.6	.1		11.6	19.9	11.1	12.7	11.6	10.8
NE	.5	2.2	2.6	1.2	.2		6.7	19.8	8.9	5.9	5.6	6.5
E	.8	2.4	2.0	.6	.1		5.8	16.9	5.8	5.2	5.3	7.2
SE	.6	2.4	1.9	.9	.4		6.1	19.7	7.0	5.9	5.9	5.7
S	1.3	4.4	3.4	2.0	.4		11.4	18.3	11.2	11.4	12.5	10.3
SW	1.0	6.2	5.5	2.6	.3		15.6	18.5	15.6	15.9	13.4	17.9
W	1.1	7.0	9.0	6.4	1.1		24.7	21.9	24.6	24.0	25.6	24.4
NW	1.2	5.4	6.0	3.9	.8		17.3	21.0	15.4	17.8	19.1	16.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.7						.7	.0	.4	1.1	1.0	.2
TOT OBS	177	741	760	442	72	2192		19.9	557	543	603	489
TOT PCT	8.1	33.8	34.7	20.2	3.3		100.0		100.0	100.0	100.0	100.0

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AREA 0004 SE NEWFOUNDLAND COAST
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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	.4	1.1	17.4	43.3	29.3	7.4	1.3	19.4	100.0	557
06&09	1.1	.9	18.4	42.0	29.3	7.7	.6	19.4	100.0	543
12&15	1.0	2.2	18.9	34.2	30.8	11.1	1.8	20.5	100.0	603
18&21	.2	1.6	18.4	37.8	32.3	8.0	1.6	20.1	100.0	489
TOT	15	32	401	860	666	189	29	19.9		2192
PCT	.7	1.5	18.3	39.2	30.4	8.6	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	1.3	.7	1.9	9.4		6.8
NE	.7	.0	1.0	4.8		7.0
E	.5	.3	1.0	4.5		7.0
SE	.2	.1	.8	4.8		7.4
S	1.0	.2	2.1	8.8		7.0
SW	1.8	1.2	3.7	8.8		6.3
W	3.6	3.2	6.3	10.5		5.8
NW	1.9	1.0	5.9	7.2		6.2
VAR	.0	.0	.0	.0		.0
CALM	.3	.0	.1	.3		4.4
TOT OBS	167	100	338	874	1479	6.5
TOT PCT	11.3	6.8	22.9	59.1	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	1.0	.1	.1	1.6	4.0	3.0	.4	.3	.1	.1	2.6	
NE	.9	.1	.2	1.0	1.6	1.1	.2	.0	.1	.1	1.1	
E	1.0	.0	.3	.8	1.0	1.5	.3	.1	.0	.1	1.1	
SE	1.1	.0	.3	.4	1.4	1.1	.1	.3	.1	.3	.8	
S	1.9	.1	.6	1.5	3.1	2.2	.5	.1	.1	*	2.0	
SW	1.7	.1	*	1.4	4.2	3.0	.7	*	.1	.1	4.1	
W	.5	.1	.6	2.8	5.1	5.1	.4	.2	.3	.3	8.4	
NW	.7	.0	.3	1.4	4.9	3.7	.4	.3	.1	.2	4.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3	
TOT OBS	134	7	35	161	377	308	46	19	13	17	362	1479
TOT PCT	9.1	.5	2.4	10.9	25.5	20.8	3.1	1.3	.9	1.1	24.5	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	2.0	2.0	2.0	2.0	2.0	2.0	2.0
* OR >5000	1.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3
* OR >3500	3.3	6.1	6.3	6.3	6.3	6.3	6.3	6.3
* OR >2000	12.3	25.0	26.6	26.9	27.0	27.1	27.1	27.1
* OR >1000	23.0	45.8	50.1	51.7	52.5	52.6	52.6	52.6
* OR >600	26.5	53.3	59.8	62.2	63.2	63.4	63.5	63.5
* OR >300	26.7	54.4	61.6	64.4	65.4	65.8	65.9	65.9
* OR >150	26.9	54.7	61.8	64.8	65.9	66.3	66.4	66.4
* OR > 0	26.9	55.1	62.8	67.1	70.2	71.9	75.3	75.3
TOTAL	395	808	921	984	1030	1055	1104	1105

TOTAL NUMBER OF OBS: 1467 PCT FREQ NH <5/8: 24.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.5	3.4	6.7	4.1	3.7	5.0	9.3	7.8	45.4	8.1	1587

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TABLE 8

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

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	*	.3	.2	.2	.5	.4	.3	.2	.0	.0	1.9	
	NO PCP	.3	.6	.3	.5	1.1	.7	.2	*	.0	.0	3.7	
	TOT %	.3	.8	.5	.7	1.5	1.0	.4	.2	.0	.0	5.5	
1/2<1	PCP	.2	.3	.3	.2	.3	.2	.2	.4	.0	.0	2.0	
	NO PCP	.3	*	.1	.1	.2	.2	.3	.1	.0	.1	1.3	
	TOT %	.4	.3	.4	.2	.5	.9	.5	.5	.0	.1	3.3	
1<2	PCP	.1	.7	.3	.4	.4	.4	.6	.3	.0	.1	3.1	
	NO PCP	.4	.3	*	.2	.3	.9	*	.1	.0	.0	1.5	
	TOT %	.5	1.0	.3	.5	.7	.6	.6	.4	.0	.1	4.7	
2<5	PCP	.6	.2	.5	.6	.9	.8	.9	.3	.0	.0	4.8	
	NO PCP	.6	.4	.3	.3	.4	.9	.8	.4	.0	.1	3.8	
	TOT %	1.2	.6	.8	.9	1.4	1.9	1.8	.7	.0	.1	8.5	
5<10	PCP	1.2	.6	.3	.8	1.3	1.4	2.2	1.2	.0	.1	9.1	
	NO PCP	3.2	1.6	1.9	1.6	2.7	3.9	7.9	5.2	.0	.0	27.9	
	TOT %	4.3	2.2	2.2	2.4	4.0	5.3	10.1	6.4	.0	.1	37.0	
10+	PCP	.4	.1	.1	.0	.2	.3	.4	.6	.0	.0	2.0	
	NO PCP	4.7	1.6	1.7	1.3	3.6	6.5	11.0	8.0	.0	.5	38.9	
	TOT %	5.0	1.7	1.8	1.3	3.9	6.8	11.4	8.5	.0	.5	40.9	
	TOT OBS												1825
	TOT PCT	11.8	6.7	6.0	6.1	11.9	15.5	24.8	16.7	.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	.1	.0	*	.0	.0	.0	.1	
	4-10	.1	.1	.1	.1	.4	.1	*	*	.0		1.0	
	11-21	.1	.2	.3	.3	.7	.5	.2	*	.0		2.4	
	22+	.1	.4	.1	.2	.4	.4	.1	.1	.0		1.7	
	TOT %	.3	.8	.5	.6	1.6	1.0	.4	.2	.0	.0	5.3	
1/2<1	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	.1	*	.1	*	.1	.1	*	.1	.0		.6	
	11-21	.0	.1	.1	*	.1	.2	.2	.1	.0		.9	
	22+	.3	.1	.1	.2	.2	.3	.2	.2	.0		1.7	
	TOT %	.4	.2	.4	.2	.5	.6	.5	.5	.0	*	3.3	
1<2	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	*	.1	.0	.1	.2	.1	.1	*	.0		.6	
	11-21	.3	.3	.2	.2	.2	.2	.2	.1	.0		1.8	
	22+	.1	.6	.1	.3	.2	.3	.3	.2	.0		2.2	
	TOT %	.5	.9	.4	.6	.7	.6	.6	.3	.0	*	4.7	
2<5	0-3	*	*	.0	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	*	*	.1	.1	.3	.1	.2	.1	.0		1.0	
	11-21	.3	.3	.2	.3	.2	.5	.4	.1	.0		2.3	
	22+	.7	.3	.4	.4	.9	.6	1.1	.5	.0		4.9	
	TOT %	1.1	.6	.7	.8	1.4	1.3	1.7	.7	.0	*	8.4	
5<10	0-3	.0	.0	*	.1	*	*	.1	*	.0	*	.3	
	4-10	.6	.4	.6	.5	.8	.7	1.0	.7	.0		5.4	
	11-21	1.3	.6	.8	1.0	.9	2.7	3.0	2.3	.0		12.7	
	22+	2.0	1.1	.6	.8	2.0	1.7	5.3	3.1	.0		16.5	
	TOT %	4.0	2.1	2.1	2.4	3.8	5.1	9.4	6.1	.0	*	35.0	
10+	0-3	.1	.1	*	*	.2	.1	.1	.1	.0	.4	1.2	
	4-10	1.1	.6	.4	.4	1.3	1.6	2.2	1.8	.0		9.4	
	11-21	2.3	1.0	1.2	.7	2.2	3.6	4.6	3.8	.0		19.5	
	22+	1.7	.4	.4	.4	.3	1.7	5.1	3.3	.0		13.2	
	TOT %	5.2	2.0	2.0	1.6	4.0	7.0	12.0	9.0	.0	.4	43.3	
	TOT OBS												2014
	TOT PCT	11.5	6.8	5.9	6.2	11.9	15.6	24.6	16.8	.0	.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	8.3	.3	2.7	9.4	25.7	18.3	2.9	.6	.6	2.1	70.8	29.2	339
06&09	12.2	.5	1.5	7.8	24.3	21.5	2.3	1.0	1.0	1.3	73.4	26.6	395
12&15	7.8	.5	2.3	12.3	23.1	23.9	3.8	2.3	.8	.5	77.1	22.9	398
18&21	7.4	.5	2.9	13.2	27.9	17.9	3.2	1.1	1.1	.8	75.8	24.2	380
TOT	135	7	35	162	381	310	46	19	13	17	1125	387	1512
PCT	8.9	.5	2.3	10.7	25.2	20.5	3.0	1.3	.9	1.1	74.4	25.6	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	4.4	2.8	5.2	7.8	36.2	43.5	497
06&09	6.3	3.3	4.0	7.9	35.7	42.8	521
12&15	5.6	4.2	3.6	8.7	34.7	43.3	554
18&21	5.2	3.0	6.1	9.3	32.9	43.5	462
TOT	110	68	95	171	710	880	2034
PCT	5.4	3.3	4.7	8.4	34.9	43.3	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	8.7	12.7	27.3	45.7	27.0	322
06&09	12.3	15.0	28.9	45.9	25.2	381
12&15	7.1	12.2	32.2	45.4	22.3	394
18&21	7.6	13.0	31.1	46.2	22.7	370
TOT	131	194	440	672	355	1467
PCT	8.9	13.2	30.0	45.8	24.2	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
45/49	.0	.0	.0	.0	.0	.0	.0	.3	3	.3
40/44	.0	.3	.0	.1	.3	.4	.8	4.3	70	6.1
35/39	.0	.0	.0	.3	1.3	2.4	8.5	16.4	329	28.8
30/34	.0	.0	.3	.7	2.2	5.7	12.8	14.5	412	36.1
25/29	.0	.0	.4	.3	1.1	4.6	3.4	5.6	175	15.3
20/24	.0	.0	.0	.1	.2	2.9	2.5	2.6	95	8.3
15/19	.0	.0	.0	.1	.4	.7	1.6	1.4	48	4.2
10/14	.0	.0	.0	.0	.1	.0	.1	.6	9	.8
TOTAL	0	3	8	17	63	190	339	521	1141	100.0
PCT	.0	.3	.7	1.5	5.5	16.7	29.7	45.7		

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
.1	.3	.7	.6	2.0	1.3	1.1	.0	.0	.0
3.4	2.5	2.4	2.8	5.6	5.8	4.3	1.8	.0	.4
6.2	2.7	3.2	2.2	3.8	6.0	7.6	4.1	.0	.3
1.6	.5	.7	.8	1.0	2.1	4.8	3.8	.0	.0
1.5	.1	.2	.1	.4	.4	2.5	3.2	.0	.0
.4	.1	.0	.0	.0	.2	1.7	1.8	.0	.0
*	.0	.0	.0	.0	.0	.5	.3	.0	.0
13.1	6.4	7.1	6.6	12.9	15.9	22.5	15.0	.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	51	44	40	32	20	16	11	31.3	555
06&09	48	42	39	32	18	15	11	31.1	544
12&15	50	44	40	32	17	14	11	30.6	593
18&21	53	45	40	32	19	15	10	31.2	482
TOT	53	44	40	32	18	14	10	31.0	2174

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.0	3.4	17.7	30.4	47.4	87	293
06&09	.0	1.9	6.7	17.0	29.5	44.9	87	312
12&15	.0	2.8	4.5	15.7	27.6	49.3	87	286
18&21	.0	4.2	7.7	15.7	30.3	42.1	85	261
TOT	0	28	64	191	339	530	87	1152

PERIOD: (PRIMARY) 1942-1971
(OVER-ALL) 1878-1971

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

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	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	4	.1	.2
9/10	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	9	.0	.6
7/8	.0	.0	.0	.0	.0	.0	.0	1.5	.5	.1	34	.7	1.4
6	.0	.0	.0	.0	.0	.0	.2	1.4	.6	.1	37	.7	1.5
5	.0	.0	.0	.0	.0	.0	.8	1.9	.2	.0	48	.7	2.2
4	.0	.0	.0	.0	.0	.1	2.0	1.8	.1	.0	65	.6	3.4
3	.0	.0	.0	.0	.0	.2	3.5	2.3	.2	.0	101	1.4	4.8
2	.0	.0	.0	.0	.0	.3	4.6	1.4	.2	.0	106	1.1	5.5
1	.0	.0	.0	.0	.1	1.1	5.4	.9	.1	.0	121	.7	6.7
0	.0	.0	.0	.0	.0	2.4	4.9	1.1	.1	.0	138	.4	8.2
-1	.0	.0	.0	.0	.2	3.9	2.9	.2	.1	.1	120	.6	6.8
-2	.0	.0	.0	.0	.3	3.7	1.8	.4	.1	.0	102	.2	6.1
-3	.0	.0	.0	.1	.9	3.4	1.2	.0	.0	.0	90	.1	5.5
-4	.0	.0	.0	.1	2.1	2.6	.9	.0	.0	.0	92	.0	5.7
-5	.0	.0	.0	.2	1.7	2.2	.6	.2	.0	.0	77	.2	4.6
-6	.0	.0	.0	.7	1.6	1.2	.5	.1	.0	.0	66	.1	4.0
-7/-8	.0	.0	.1	2.3	2.2	1.1	.4	.0	.0	.0	100	.1	6.1
-9/-10	.0	.0	.9	1.9	2.0	1.1	.4	.1	.0	.0	102	.1	6.2
-11/-13	.0	.3	2.2	2.4	1.1	.5	.1	.1	.0	.0	109	.2	6.5
-14/-16	.0	.7	2.0	.2	.2	.1	.1	.0	.0	.0	53	.1	3.2
-17/-19	.3	.8	.9	.1	.3	.1	.0	.0	.0	.0	40	.0	2.5
-20/-22	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.3
TOTAL	9	34	98	129	206	386	490	220	45	6	1619	130	1489
PCT	.9	2.1	6.1	8.0	12.7	23.8	30.3	13.6	2.8	.4	100.0	8.0	92.0

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	.5	.2	.0	.0	.0	.6
1-2	.0	.6	.1	.0	.0	.0	.7
3-4	.0	.2	1.4	.5	.0	.0	2.0
5-6	.0	.0	1.1	.6	.0	.0	1.7
7	.0	.0	.2	1.5	.2	.0	1.8
8-9	.0	.0	.3	1.0	.2	.0	1.5
10-11	.0	.0	.4	.7	.1	.0	1.2
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.6	.2	.2	1.0
17-19	.0	.0	.0	.3	.4	.0	.7
20-22	.0	.0	.0	.0	.2	.1	.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	.0	1.2	3.7	5.4	1.3	.3	11.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	*	.0	.0	.0	.0	*
1-2	.2	.2	.2	.0	.0	.0	.6
3-4	.0	.2	.4	.2	.0	.0	.8
5-6	.0	.0	.7	.1	.2	.0	1.0
7	.0	.0	.6	1.0	.2	.0	1.7
8-9	.0	.0	.2	.2	.0	.0	.3
10-11	.0	.0	.1	.3	.0	.0	.5
12	.0	.0	.2	.8	.0	.0	1.0
13-16	.0	.0	.0	.6	*	.0	.7
17-19	.0	.0	.0	.2	.0	.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	.4	2.4	3.4	.4	.0	6.8

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	.5	.0	.0	.0	.6
3-4	.2	.0	1.2	.0	.0	.0	1.4
5-6	.0	.0	1.0	.1	.0	.0	1.1
7	.0	.0	1.0	.8	.0	.0	1.8
8-9	.0	.0	.2	.5	.2	.0	.8
10-11	.0	.1	.0	.2	.0	.0	.3
12	.0	.0	.0	.2	.2	.0	.3
13-16	.0	.0	.0	.4	.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	.0	.2	.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	.4	3.8	2.2	.5	.2	7.2

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	.8	.5	.0	.0	.0	1.3
3-4	.0	.0	.7	*	.0	.0	.8
5-6	.0	.0	.8	.2	*	.0	1.1
7	.0	.0	.2	.4	.2	.0	.7
8-9	.0	.0	*	*	.0	.0	.1
10-11	.0	*	.2	.5	.2	.0	.9
12	.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	.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	.0	.9	2.5	1.5	.5	.0	5.3

PERIOD: (OVER-ALL) 1963-1971

JANUARY

TABLE 18 (CONT)

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

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	.4	.0	.0	.0	.0	.6	.0	.1	.0	.0	.0	.0	.1
1-2	.0	1.6	.5	.0	.0	.0	2.0	.0	.6	.1	.0	.0	.0	.7
3-4	.0	.5	1.2	.1	.0	.0	1.8	.0	1.2	2.9	*	.0	.0	4.1
5-6	.0	.3	1.8	.8	.2	.0	3.2	.0	.3	2.5	.8	*	.0	3.7
7	.0	.2	1.5	.4	.0	.0	2.0	.0	.0	1.3	.7	.0	.0	2.0
8-9	.0	.0	.1	.6	.0	.0	.7	.0	.2	1.0	.7	.0	.2	2.0
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	1.2	*	.0	1.5
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.4	*	.0	.6
13-16	.0	.0	.0	.5	.2	.0	.6	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	*	.0	*
20-22	.0	.0	.0	.0	.1	.0	.1	.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	3.1	5.0	2.8	.5	.0	11.7	.0	2.5	8.2	4.1	.2	.2	15.2

	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	.5	.0	.0	.0	.0	.5	.2	.2	.0	.0	.0	.0	.3	
1-2	.0	.5	.7	.0	.0	.0	1.2	.0	1.2	.4	.0	.0	.0	1.6	
3-4	.0	.7	2.8	.7	.0	.0	4.2	.0	.3	1.6	.7	.0	.0	2.7	
5-6	.0	.1	1.5	1.7	.3	.0	3.7	.0	*	1.3	2.2	.2	.0	3.8	
7	.0	.0	.7	1.8	.5	.0	3.0	.0	.0	.7	.9	*	.0	1.6	
8-9	.0	.0	1.4	1.3	.2	.0	2.9	.0	.0	.6	1.1	.3	.0	2.0	
10-11	.0	.0	.5	.6	.5	.0	1.7	.0	.0	.5	1.0	.5	.2	2.2	
12	.0	.0	.3	.8	.2	.0	1.4	.0	.0	*	.7	.7	.2	1.6	
13-16	.0	.0	.0	1.7	1.0	.0	2.6	.0	.0	.0	1.5	.9	.0	2.4	
17-19	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.2	.2	.0	.4	
20-22	.0	.0	.0	.2	.2	.0	.3	.0	.0	.0	.0	.0	*	*	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.3	
26-32	.0	.0	.0	.2	.0	.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	.0	1.7	8.1	8.8	3.5	.0	22.1	.2	1.7	5.2	8.3	3.0	.5	19.0	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	1.3	1.8	.2	.0	.0	.0	3.3	
1-2	.2	5.6	3.0	.0	.0	.0	8.8	
3-4	.2	3.0	12.3	2.3	.0	.0	17.8	
5-6	.0	.8	10.8	6.6	1.0	.0	19.3	
7	.0	.2	6.1	7.3	1.0	.0	14.8	
8-9	.0	.2	3.8	5.3	.8	.2	10.3	
10-11	.0	.2	2.0	4.8	1.3	.2	8.5	
12	.0	.0	.7	3.3	1.2	.2	5.3	
13-16	.0	.0	.0	5.6	2.5	.2	8.3	
17-19	.0	.2	.0	.7	1.2	.0	2.0	
20-22	.0	.0	.0	.2	.7	.2	1.0	
23-25	.0	.0	.0	.0	.2	.2	.3	
26-32	.0	.0	.0	.0	.2	.2	.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	
								602
TOT PCT	1.7	12.0	38.9	36.4	10.0	1.2	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	2.7	6.2	4.7	3.1	1.0	.5	.2	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	252	5
6-7	.0	.3	2.7	6.3	7.8	5.6	3.8	1.2	1.4	.1	.2	.2	.1	.0	.0	.0	.0	.0	.0	389	7
8-9	.0	.1	1.0	2.8	4.1	3.4	3.4	2.4	5.0	1.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	310	10
10-11	.0	.0	.3	1.1	1.6	1.3	1.6	2.3	1.0	.9	.2	.1	.4	.0	.0	.0	.0	.0	.0	143	11
12-13	.0	.0	.0	.2	.2	.4	.4	.5	.4	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	34	13
>13	.0	.0	.0	.1	.2	.2	.2	.2	.2	.2	.2	.2	.2	.0	.0	.0	.0	.0	.0	25	16
INDET	.6	.8	1.7	2.1	3.1	1.2	1.3	.5	.6	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	158	6
TOTAL	11	51	158	227	262	171	147	98	116	35	11	11	11	2	0	0	0	0	0	1311	8
PCT	.8	3.9	12.1	17.3	20.0	13.0	11.2	7.5	8.8	2.7	.8	.8	.8	.2	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1877-1971

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

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	1.6	1.0	.0	.5	13.3	.4	.0	18.0	4.3	.0	7.6	.4	1.4		.0	68.3
NE	3.5	1.5	3.5	.0	12.0	1.3	.0	20.8	5.3	.0	10.0	.0	.5		.0	63.5
E	11.2	.4	6.8	.0	18.4	.0	.0	34.7	5.8	.0	13.2	.8	.6		.0	44.8
SE	11.7	5.2	4.5	1.4	14.5	.0	.0	35.2	3.3	.0	16.0	.0	.0		.2	45.3
S	10.0	2.8	5.0	.7	9.8	.7	.0	28.6	2.4	.0	20.5	1.4	.7		.5	45.9
SW	3.2	1.1	.7	.9	14.2	.5	.0	19.7	4.6	.0	9.3	.1	.0		.0	66.3
W	.8	1.2	.0	.0	15.6	.0	.0	17.1	7.9	.0	2.7	.5	.0		.0	71.9
NW	1.4	1.0	.8	.0	14.3	.8	.0	17.2	5.5	.0	2.9	.1	.0		.0	74.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	7.1	.0	.0	7.1	.0	.0	7.1	.0	.0		.0	85.7
TOT PCT	4.1	1.6	1.8	.4	14.4	.4	.0	21.8	5.3	.0	8.4	.4	.3		.1	63.8
TOT OBS:	1578															

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	4.8	1.1	2.4	.8	13.4	.3	.0	21.7	4.0	.0	7.0	.8	.0		.3	66.2
06&09	4.2	1.5	1.0	.0	17.3	.5	.0	24.0	5.4	.0	6.7	.5	.2		.0	63.2
12&15	3.1	2.1	2.6	.5	16.2	.5	.0	24.2	3.5	.0	11.3	.0	.0		.0	60.9
18&21	4.4	1.6	1.6	.3	11.1	.3	.0	17.6	8.3	.0	8.3	.3	1.0		.0	64.6
TOT PCT	4.1	1.6	1.9	.4	14.6	.4	.0	21.9	5.3	.0	8.4	.4	.3		.1	63.6
TOT OBS:	1590															

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	1.9	5.2	3.1	1.4	.1		12.0	20.1	10.5	6.3	13.9	14.2	12.4	12.3	12.7	9.1
NE	.2	1.5	2.6	1.8	.3	.1		6.5	17.9	6.8	10.5	8.7	4.3	5.1	4.5	5.3	5.8
E	.1	2.2	2.8	1.9	.3	.0		7.4	17.6	5.2	12.5	8.1	9.7	6.7	7.3	6.8	9.4
SE	.2	1.9	3.7	2.8	1.0	.0		9.1	20.0	8.6	6.9	8.3	12.6	10.2	9.2	8.3	11.0
S	.0	1.7	4.1	3.0	.7	.2		9.7	20.4	8.1	11.6	9.4	9.9	8.6	11.6	12.1	7.1
SW	.1	1.5	5.6	4.3	1.7	.3		13.5	22.4	14.5	11.4	14.1	11.6	13.5	10.4	14.8	10.7
W	.0	2.9	9.4	7.8	3.8	.7		24.6	23.1	26.6	26.1	22.1	18.3	26.8	25.7	22.8	28.9
NW	.2	1.9	7.2	4.9	2.0	.4		16.5	22.1	19.1	14.7	14.7	19.4	15.6	19.1	15.9	16.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0	.6	.0	.8	.0	1.1	.0	1.2	1.3
TOT OBS	30	276	719	526	198	29	1772		21.0	325	112	358	93	364	106	337	77
TOT PCT	1.7	15.6	40.7	29.7	11.2	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	.7	4.2	4.3	2.4	.3		12.0	20.1	9.4	14.0	12.4	12.0
NE	.4	2.6	2.8	.4	.2		6.5	17.9	7.7	7.8	4.9	5.4
E	.7	3.1	2.5	1.1	.1		7.4	17.4	7.0	8.4	6.9	7.3
SE	.8	3.0	2.8	2.2	.2		9.1	20.0	8.2	9.2	9.9	8.8
S	.6	3.5	3.3	2.0	.4		9.7	20.4	9.0	9.5	9.3	11.2
SW	.3	3.9	5.6	2.8	.9		13.5	22.4	13.7	13.6	12.8	14.0
W	.9	6.4	9.5	6.1	1.6		24.6	23.1	26.5	21.3	26.5	24.0
NW	.7	4.4	6.9	3.7	.8		16.5	22.1	18.0	15.6	16.4	16.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.8						.8	.0	.5	.7	.9	1.2
TOT OBS	105	550	670	369	78	1772		21.0	437	451	470	414
TOT PCT	5.9	31.0	37.8	20.8	4.4		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1877-1971

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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	.5	.5	12.4	42.3	32.0	10.1	2.3	21.5	100.0	437
06&09	.7	.7	16.4	38.1	30.4	12.4	1.3	21.1	100.0	451
12&15	.9	1.7	18.5	41.9	25.7	9.4	1.5	19.9	100.0	470
18&21	1.2	.7	14.7	38.4	30.9	12.6	1.4	21.5	100.0	414
TOT	14	16	276	713	526	198	29	21.0		1772
PCT	.8	.9	15.6	40.2	29.7	11.2	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	1.0	1.1	2.6	6.9		6.6
NE	.6	.4	1.8	3.4		6.5
E	.3	.1	1.1	6.3		7.4
SE	.3	.2	.6	8.0		7.5
S	1.1	.2	1.7	6.6		6.8
SW	1.9	1.2	3.6	7.0		6.1
W	3.8	3.0	9.0	8.7		5.6
NW	2.7	.9	5.9	7.1		6.0
VAR	.0	.0	.0	.0		.0
CALM	.1	.2	.3	.3		5.5
TOT OBS	151	93	339	691	1274	6.3
TOT PCT	11.9	7.3	26.6	54.2	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	.8	.1	.2	1.8	2.7	2.3	.7	*	.2	.0	2.8	
NE	.7	.0	.3	.6	1.3	.9	.3	.2	*	.2	1.8	
E	1.3	.1	.5	1.2	1.7	1.3	.2	.2	.1	.3	1.0	
SE	1.7	*	.4	1.4	2.6	1.3	.1	.1	.2	.4	1.0	
S	1.7	.1	.3	1.2	2.1	1.3	.2	.1	.1	.2	2.1	
SW	1.5	.0	.4	1.5	3.0	2.5	.7	.1	.2	.0	3.9	
W	.5	.0	.4	1.8	6.6	6.3	.6	.1	.0	.1	8.1	
NW	.7	.1	.4	1.9	4.0	3.8	1.0	.1	.2	.0	4.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.1	.2	.0	.1	.0	.0	.5	
TOT OBS	113	5	35	147	308	252	49	12	12	15	326	1274
TOT PCT	8.9	.4	2.7	11.5	24.2	19.8	3.8	.9	.9	1.2	25.6	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 >SOVD	* OR >0
* OR >6500	1.1	1.9	2.1	2.1	2.1	2.1	2.1	2.1
* OR >5000	1.3	2.8	3.0	3.0	3.1	3.1	3.1	3.1
* OR >3500	3.3	6.3	6.8	6.8	6.9	6.9	6.9	6.9
* OR >2000	11.8	23.5	26.3	26.5	26.8	26.9	26.9	26.9
* OR >1000	20.9	43.2	49.5	50.2	51.0	51.1	51.1	51.1
* OR >600	24.4	50.8	59.2	60.8	62.2	62.5	62.5	62.5
* OR >300	25.0	52.5	61.1	63.0	64.8	65.2	65.3	65.3
* OR >150	25.0	52.9	61.5	63.4	65.2	65.6	65.7	65.7
* OR > 0	25.1	53.3	62.3	65.6	69.0	70.7	73.9	74.3
TOTAL	316	672	785	826	870	891	931	936

TOTAL NUMBER OF OBS: 1260 PCT FREQ NH <5/8: 25.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.2	3.4	6.4	4.9	3.6	5.8	10.2	10.2	40.0	8.4	1349

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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	.4	.2	.4	.3	.3	.3	.1	.3	.0	.0	2.2	
<1/2	NO PCP	.2	.4	.6	.8	.8	.5	*	.4	.0	.0	3.8	
	TOT %	.5	.6	1.1	1.1	1.1	.8	.1	.7	.0	.0	6.0	
	PCP	.4	.1	.4	.5	.1	.2	.5	.3	.0	.0	2.5	
1/2<1	NO PCP	.3	.2	.1	.3	.2	.5	.2	.0	.0	.0	1.7	
	TOT %	.7	.2	.4	.8	.4	.7	.7	.3	.0	.0	4.2	
	PCP	.2	.1	.2	.7	.4	.2	.2	.1	.0	.0	2.2	
1<2	NO PCP	*	.0	.3	.2	.2	.1	.3	.1	.0	.1	1.3	
	TOT %	.2	.1	.6	.9	.7	.4	.4	.3	.0	.1	3.5	
	PCP	.4	.4	.7	1.0	.7	.7	.5	.5	.0	.0	4.9	
2<5	NO PCP	.8	.3	.5	.5	.7	1.4	2.0	1.0	.0	.0	7.2	
	TOT %	1.3	.6	1.2	1.5	1.5	2.0	2.5	1.4	.0	.0	12.0	
	PCP	.7	.5	.9	.8	1.1	1.1	2.3	1.3	.0	.0	8.7	
5<10	NO PCP	9.2	1.8	1.6	1.5	1.8	4.4	8.6	4.8	.0	.3	28.0	
	TOT %	9.9	2.3	2.6	2.4	2.8	5.5	10.9	6.1	.0	.3	36.8	
	PCP	.1	.1	.1	.0	.0	.2	.6	.3	.0	.1	1.4	
10+	NO PCP	5.4	2.4	1.9	2.5	2.8	4.4	9.1	7.1	.0	.4	36.1	
	TOT %	5.5	2.6	2.0	2.5	2.8	4.5	9.7	7.4	.0	.5	37.5	
	TOT OBS												1566
	TOT PCT	12.1	6.4	7.7	9.2	9.2	13.9	24.4	16.2	.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
	0-3	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.2	
<1/2	4-10	.2	.3	.4	.2	.2	.1	*	.2	.0		1.5	
	11-21	.2	.1	.2	.3	.2	.3	*	.2	.0		1.6	
	22+	.2	.2	.5	.3	.6	.3	.1	.4	.0		2.8	
	TOT %	.6	.6	1.1	1.1	1.1	.8	.2	.8	.0	.0	6.1	
	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	4-10	.1	.1	.2	.2	.0	.1	.2	.0	.0		.8	
	11-21	.2	.1	.2	.3	.2	.3	.2	.2	.0		1.6	
	22+	.3	.1	.2	.3	.2	.3	.4	.1	.0		1.9	
	TOT %	.6	.2	.5	.8	.5	.6	.7	.3	.0	.0	4.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1<2	4-10	*	*	.3	.2	.2	.0	.0	.1	.0		.7	
	11-21	*	.1	.2	.3	.3	.1	.1	.1	.0		1.1	
	22+	.1	.0	.1	.4	.2	.3	.3	.1	.0		1.5	
	TOT %	.2	.1	.6	.9	.6	.4	.4	.2	.0	.1	3.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	*	*	.3	.1	.1	.1	.3	.2	.0		1.2	
	11-21	.6	.2	.4	.7	.6	.8	.9	.6	.0		4.9	
	22+	.6	.4	.4	.7	.8	1.0	1.2	.6	.0		5.5	
	TOT %	1.2	.7	1.1	1.4	1.5	2.0	2.4	1.4	.0	.0	11.7	
	0-3	.0	.1	.0	.0	.0	.1	.0	.1	.0	.3	.5	
5<10	4-10	.4	.4	.4	.2	.5	.2	1.3	.5	.0		3.9	
	11-21	1.7	1.0	1.2	1.0	1.3	2.3	3.3	2.2	.0		13.9	
	22+	1.8	.8	.8	1.3	1.1	2.6	5.8	3.1	.0		17.4	
	TOT %	3.9	2.3	2.5	2.5	2.8	5.2	10.4	5.8	.0	.3	35.7	
	0-3	.2	.1	.1	.0	.0	.0	.0	.1	.0	.5	1.0	
10+	4-10	1.2	.7	.7	1.0	.8	1.1	1.2	1.0	.0		7.7	
	11-21	2.6	1.3	.9	.7	1.5	1.7	4.4	3.7	.0		16.9	
	22+	1.7	.8	.3	.7	.8	1.7	4.3	2.7	.0		13.2	
	TOT %	5.8	3.0	2.0	2.5	3.0	4.5	10.1	7.5	.0	.5	38.8	
	TOT OBS												1664
	TOT PCT	12.3	6.9	7.8	9.2	9.4	13.5	24.2	16.0	.0	.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	10.0	.4	1.8	9.7	25.8	12.5	3.2	1.1	2.2	.4	67.0	33.0	279
06&09	12.0	.0	1.9	9.9	20.4	21.3	2.8	1.2	.9	.9	71.3	28.7	324
12&15	7.5	.3	3.5	12.4	25.4	24.0	3.8	1.2	.6	1.7	80.3	19.7	346
18&21	6.1	.9	3.5	13.0	23.8	19.1	5.2	.3	.3	1.4	73.6	26.4	345
TOT	114	5	35	147	308	293	49	12	12	15	950	344	1294
PCT	8.8	.4	2.7	11.4	23.8	19.6	3.8	.9	.9	1.2	73.4	26.6	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	5.5	4.3	2.8	11.8	40.9	34.8	399
06&09	7.3	4.0	3.1	12.0	34.1	39.5	425
12&15	6.0	4.9	4.5	13.2	32.8	38.6	448
18&21	5.9	4.0	3.7	9.7	35.1	42.1	404
TOT	104	72	57	196	597	650	1676
PCT	6.2	4.3	3.4	11.7	35.6	38.8	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	9.2	13.0	30.2	40.8	29.0	262
06&09	12.1	15.3	31.9	41.9	26.2	313
12&15	7.6	13.7	36.0	46.2	17.7	344
18&21	5.9	12.6	32.0	43.1	24.9	341
TOT	108	172	412	544	304	1260
PCT	8.6	13.7	32.7	43.2	24.1	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
45/49	.0	.0	.0	.0	.0	.2	.0	.0	2	.2
40/44	.0	.0	.0	.2	.1	.4	.3	3.0	37	4.1
35/39	.0	.0	.0	.6	.5	1.1	4.3	13.0	180	19.7
30/34	.0	.0	.0	.2	1.5	5.4	11.7	19.2	347	38.0
25/29	.0	.0	.0	.9	2.1	4.5	5.6	6.7	180	19.7
20/24	.0	.0	.0	.2	.4	2.9	3.9	2.7	93	10.2
15/19	.0	.0	.2	.1	1.1	.9	2.2	1.2	52	5.7
10/14	.0	.0	.0	.0	.9	.4	.5	1.0	21	2.3
TOTAL	0	0	2	22	56	144	261	427	912	100.0
PCT	.0	.0	.2	2.4	6.1	15.8	28.6	46.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	.1	.0	.0	.0	.0
.2	.1	.7	1.0	1.4	.3	.3	.1	.0	.0
1.5	2.1	3.9	3.4	3.3	3.3	1.5	.8	.0	.0
5.9	3.4	3.9	3.7	3.4	6.5	6.0	4.9	.0	.3
2.9	1.8	.9	1.3	1.5	1.5	6.2	3.6	.0	.1
.7	.5	.2	.2	.1	1.2	3.8	3.5	.0	.1
.8	.1	.1	.0	.0	.0	3.2	1.5	.0	.0
.1	.0	.0	.0	.0	.0	1.2	1.1	.0	.0
12.0	8.0	9.7	9.6	9.7	12.8	22.1	15.5	.0	.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	44	43	38	30	17	10	7	29.7	433
06&09	47	42	39	31	19	10	9	29.4	451
12&15	43	41	38	30	16	11	7	29.1	465
18&21	48	43	39	32	18	12	10	30.5	413
TOT	48	42	39	31	17	11	7	29.7	1762

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	3.8	13.2	27.4	51.4	88	212
06&09	.0	2.1	5.8	14.0	35.8	42.4	87	243
12&15	.0	2.0	6.7	17.5	24.6	49.2	87	252
18&21	.0	2.3	8.0	17.8	27.2	44.6	86	213
TOT	0	24	56	144	265	431	87	920

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1877-1971

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

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	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	2	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.0	.1	.7	.7	.0	19	.7	.7
7/8	.0	.0	.0	.0	.0	.0	.0	.4	2.4	.4	.0	44	.5	2.7
6	.0	.0	.0	.0	.0	.0	.0	.9	1.0	.2	.0	28	.3	1.8
5	.0	.0	.0	.0	.0	.0	.3	1.5	2.1	.4	.0	59	.6	3.7
4	.0	.0	.0	.0	.0	.0	.6	2.2	1.0	.1	.0	52	.8	3.0
3	.0	.0	.0	.0	.0	.0	.7	2.6	.9	.1	.0	59	.7	3.6
2	.0	.0	.0	.0	.0	.0	1.5	4.6	1.1	.1	.0	99	.9	6.4
1	.0	.0	.0	.0	.0	.1	2.5	3.3	.4	.0	.0	86	1.0	5.3
0	.0	.0	.0	.0	.0	.2	4.9	3.3	.4	.1	.0	121	1.0	7.9
-1	.0	.0	.0	.0	.0	.7	4.0	1.5	.1	.0	.0	86	.4	6.0
-2	.0	.0	.0	.0	.0	1.8	4.3	1.4	.0	.0	.0	101	.8	6.6
-3	.0	.0	.0	.0	.0	2.4	3.0	.5	.1	.0	.0	81	.4	5.6
-4	.0	.0	.0	.0	.3	2.4	2.3	.4	.0	.0	.0	74	.3	5.1
-5	.0	.0	.0	.0	.4	2.4	1.5	.1	.1	.1	.0	63	.1	4.3
-6	.0	.0	.0	.0	1.1	2.0	.6	.1	.1	.0	.0	52	.0	3.8
-7/-8	.0	.0	.0	.2	3.0	2.6	.6	.0	.0	.1	.0	89	.0	6.5
-9/-10	.0	.0	.0	1.2	1.9	1.4	.4	.1	.0	.0	.0	69	.1	5.0
-11/-13	.0	.0	.2	2.0	1.8	.8	.4	.0	.0	.0	.0	71	.1	5.1
-14/-16	.0	.1	1.0	1.7	.6	.1	.0	.1	.0	.0	.0	50	.0	3.7
-17/-19	.0	.4	.9	.5	.0	.1	.0	.1	.0	.0	.0	26	.0	1.9
-20/-22	.0	1.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	20	.0	1.5
-23/-25	.1	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	7	.0	.5
-26/-30	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	1		36		126		374		141		2		117	1244
		74		79		231		318		29		1361		
PCT	.1	1.8	2.6	5.8	9.3	17.0	27.5	23.4	10.4	2.1	.1	100.0	8.6	91.4

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	.0	.4	.0	.0	.0	.0	.4
1-2	.2	.6	.8	.0	.0	.0	1.6
3-4	.1	.4	1.9	.5	.0	.0	2.9
5-6	.0	.2	2.4	.1	.0	.0	2.7
7	.0	.0	1.0	.9	.3	.0	2.1
8-9	.0	.2	.5	.6	.0	.0	1.2
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.2	.3	.0	.4
13-16	.0	.0	.0	.4	.8	.0	1.2
17-19	.0	.0	.0	.2	.2	.0	.3
20-22	.0	.0	.0	.0	.1	.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	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	1.8	6.5	3.2	1.6	.1	13.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6
1-2	.0	1.2	.2	.0	.0	.0	1.4
3-4	.0	.7	.9	.2	.0	.0	1.8
5-6	.0	.0	.8	.0	.0	.0	.8
7	.0	.0	.3	.4	.0	.0	.7
8-9	.0	.0	.2	.1	.0	.0	.3
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	*	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	2.4	1.2	*	.0	5.6

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	1.0	.2	.0	.0	.0	1.1
3-4	.0	.1	.6	.5	.0	.0	1.2
5-6	.0	.2	.6	.0	.0	.0	.8
7	.0	.2	1.0	.3	.0	.0	1.4
8-9	.0	.0	.2	.4	.0	.0	.6
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	1.7	2.6	1.5	.0	.0	5.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.4
1-2	.0	1.1	.5	.0	.0	.0	1.6
3-4	.0	.3	1.1	.2	.0	.0	1.6
5-6	.0	.2	.8	*	.2	.0	1.1
7	.0	.0	.4	.7	.0	.0	1.1
8-9	.0	.0	*	.5	.2	.0	.8
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.5	.0	.0	.5
13-16	.0	.0	*	.2	*	.0	.3
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	.2	1.8	3.0	2.2	.7	.0	7.9

PERIOD: (OVER-ALL) 1963-1971

FEBRUARY

TABLE 18 (CONT)

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

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	1.1	.3	.0	.0	.0	1.4
3-4	.0	.2	.9	.0	.0	.0	1.1
5-6	.0	.0	1.1	.8	.0	.0	1.9
7	.0	.0	.8	.5	.0	.0	1.3
8-9	.0	.0	.3	.1	.2	.0	.6
10-11	.0	.2	.0	.1	.0	.0	.3
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.1	1.0	.5	.0	1.6
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.2	.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	.0	1.7	3.5	2.6	.8	.2	8.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.5
1-2	.2	.6	.3	.0	.0	.0	1.0
3-4	.0	.4	2.3	.7	.0	.0	3.4
5-6	.0	.2	1.3	.5	.2	.0	2.1
7	.0	.0	.5	1.1	.0	.2	1.8
8-9	.0	.0	.6	1.2	.2	.0	2.0
10-11	.0	.0	.2	.5	.4	.0	1.2
12	.0	.0	.0	.8	.3	.0	1.0
13-16	.0	.0	.0	.5	.5	.0	1.0
17-19	.0	.0	.0	.0	.2	.0	.2
20-22	.0	.0	.0	.0	.6	.0	.6
23-25	.0	.0	.0	.0	.2	.2	.3
26-32	.0	.0	.0	.0	.0	.2	.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	1.6	5.1	5.3	2.6	.5	15.4

W

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	1.1	.4	.0	.0	.0	1.5
3-4	.0	.9	2.8	.3	.0	.0	4.1
5-6	.0	.2	2.4	.5	.9	.0	3.5
7	.0	.0	1.2	.9	.2	.2	2.5
8-9	.0	.0	1.3	1.1	.8	.0	3.1
10-11	.0	.0	.6	.9	.3	.0	1.8
12	.0	.0	.0	.4	.9	.0	1.3
13-16	.0	.0	.3	.8	1.5	.5	3.1
17-19	.0	.0	.0	.3	.3	.0	.6
20-22	.0	.0	.0	.0	.4	.5	.9
23-25	.0	.0	.0	.0	.0	.2	.2
26-32	.0	.0	.0	.0	.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	.0	3.4	9.2	5.3	4.6	1.4	23.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.6	.0	.0	.0	.0	.6	
1-2	.0	.5	.6	.0	.0	.0	1.1	
3-4	*	.3	1.4	.5	.0	.0	2.2	
5-6	.0	.3	2.2	1.9	.0	.0	4.5	
7	.0	.0	1.1	.8	.3	.0	2.1	
8-9	.0	.0	.5	.5	*	.0	1.1	
10-11	.0	.0	.2	1.3	.2	.2	1.8	
12	.0	.0	.0	.8	.4	.0	1.3	
13-16	.0	.0	.0	.7	.6	*	1.3	
17-19	.0	.0	.0	.0	.2	.0	.2	
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	.5	.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	*	1.6	6.1	6.5	1.9	.8	16.9	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	2.3	3.9	.0	.0	.0	.0	6.2	
1-2	.5	7.0	3.2	.0	.0	.0	10.7	
3-4	.2	3.4	11.9	2.8	.0	.0	18.3	
5-6	.2	1.2	11.7	4.9	.7	.0	17.6	
7	.0	.2	6.2	4.5	.7	.3	12.9	
8-9	.0	.2	3.5	4.5	1.3	.0	9.5	
10-11	.0	.2	1.2	3.7	.8	.2	6.0	
12	.0	.0	.0	3.2	1.8	.0	5.0	
13-16	.0	.0	.5	3.5	3.9	.5	8.4	
17-19	.0	.0	.0	.5	1.2	.0	1.7	
20-22	.0	.0	.0	.0	1.5	.7	2.2	
23-25	.0	.0	.0	.0	.2	.3	.5	
26-32	.0	.0	.0	.0	.0	1.0	1.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	15.9	38.2	27.6	12.1	3.0	100.0	997

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	4.1	6.3	5.3	3.0	2.2	.6	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	260	5
6-7	.0	.5	3.0	6.9	7.0	3.6	3.8	2.8	1.8	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	344	8
8-9	.0	.3	.3	1.7	3.1	3.6	2.5	2.9	3.7	1.1	.6	.3	.2	.0	.0	.0	.0	.0	.0	232	11
10-11	.0	.1	.2	.5	1.4	1.3	1.6	1.0	1.8	1.0	1.0	.2	.2	.0	.0	.0	.0	.0	.0	117	12
12-13	.0	.0	.1	.2	.1	.3	.5	.5	1.1	.1	.3	.2	.3	.0	.0	.0	.0	.0	.0	42	14
>13	.0	.0	.0	.2	.1	.0	.2	.2	.3	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	14	13
INDET	1.0	.8	1.5	.6	2.8	2.4	1.1	.6	1.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	142	7
TOTAL	19	66	129	176	202	153	119	92	119	92	27	8	9	0	0	0	0	0	0	1151	8
PCT	1.7	5.7	11.2	15.3	17.5	13.3	10.3	8.0	10.3	2.8	2.3	.7	.8	.0	.0	.0	.0	.0	.0	100.0	

MARCH

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AREA 0004 SE NEWFOUNDLAND COAST
46.8N 51.5W

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	.0	2.5	.5	13.7	.0	2.8	20.8	1.3	.0	10.8	.0	.9	.4		66.2
NE	3.4	.6	3.1	.0	8.8	.2	1.8	16.9	2.0	.0	18.1	.0	.6	.0		62.4
E	6.2	2.3	3.5	.0	16.9	2.7	2.1	31.5	.0	.0	17.7	1.4	1.6	.0		47.6
SE	10.7	3.7	2.8	1.4	17.5	.6	3.4	37.3	2.5	1.1	16.9	.3	2.0	.0		41.0
S	13.1	2.8	1.2	.5	7.8	.0	.7	23.3	4.3	.7	21.2	.0	1.6	.0		49.0
SW	3.5	1.4	.5	.0	14.5	.5	.5	20.1	1.8	.0	13.1	.5	1.9	.0		62.7
W	1.6	.0	1.7	.0	13.3	.3	1.9	18.5	2.6	.0	4.3	.3	1.4	.0		72.8
NW	1.5	.5	1.2	.0	8.8	.0	3.2	15.2	3.2	.0	7.5	1.0	.0	.1		73.1
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	.0	21.4	.0	14.3	.0		57.1
TOT PCT	4.2	1.0	1.9	.2	12.3	.4	1.9	21.0	2.2	.1	12.3	.4	1.3	.1		62.6
TOT OBS:	1436															

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	1.1	2.1	.0	11.4	.8	1.9	20.2	2.4	.5	8.8	.0	.8	.0		67.6
06&09	3.9	.9	2.4	.6	12.0	.3	.9	20.1	3.6	.0	10.5	.3	1.2	.0		64.4
12&15	5.2	.7	2.0	.2	11.9	.2	3.0	21.8	1.7	.0	12.2	.5	1.5	.2		62.0
18&21	4.5	1.5	.9	.0	13.5	.3	1.8	21.3	1.2	.0	18.6	.9	1.5	.0		56.5
TOT PCT	4.2	1.0	1.9	.2	12.2	.4	1.9	20.9	2.2	.1	12.4	.4	1.2	.1		62.7
TOT OBS:	1446															

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	3.1	6.9	3.7	.6	.2		14.7	18.2	16.7	12.1	14.1	13.2	13.9	15.8	15.9	11.7
NE	.1	2.4	5.5	2.3	.9	*		11.2	18.2	12.1	9.5	10.3	8.5	12.8	6.9	12.3	11.4
E	.3	1.9	4.2	1.2	.4	.1		8.0	16.6	6.8	6.3	7.5	9.7	8.9	7.4	9.3	8.3
SE	.2	1.1	2.9	1.2	.5	.0		6.0	17.6	4.4	8.3	6.2	2.9	6.5	10.7	6.3	3.1
S	.2	2.6	4.0	2.6	.6	.1		10.2	18.1	9.8	8.3	8.3	6.2	11.2	10.9	13.1	9.6
SW	.2	3.3	6.5	4.1	1.0	.2		15.3	18.9	15.1	15.0	14.3	21.2	13.6	19.2	14.2	17.6
W	.2	2.8	8.8	5.3	2.5	.2		19.8	20.8	20.5	22.1	22.5	22.1	17.6	15.6	16.9	26.5
NW	*	3.2	6.3	3.6	.5	.1		13.8	18.0	13.9	17.5	15.2	15.0	14.2	13.4	10.9	11.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0							1.0	.0	.7	1.0	1.5	1.2	1.3	.0	1.1	.0
TOT OBS	38	310	484	366	109	15	1526		18.4	301	103	273	85	308	112	263	81
TOT PCT	2.5	20.3	49.1	24.0	7.1	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	1.0	5.6	6.1	1.6	.3		14.7	18.2	15.5	13.9	14.4	14.9
NE	.8	4.2	4.7	1.4	.1		11.2	18.2	11.4	9.9	11.3	12.1
E	.9	3.4	2.8	.7	.2		8.0	16.6	6.7	8.0	8.5	9.1
SE	.7	2.8	1.6	.8	.2		6.0	17.6	5.4	5.4	7.6	5.5
S	1.2	3.8	3.7	1.1	.4		10.2	18.1	9.4	7.8	11.1	12.3
SW	1.2	5.7	5.6	2.3	.4		15.3	18.9	15.1	15.9	15.1	15.0
W	.8	7.2	7.3	3.6	.9		19.8	20.8	20.9	22.4	17.1	19.2
NW	.8	6.0	4.9	1.8	.3		13.8	18.0	14.8	15.2	14.0	11.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.0						1.0	.0	.7	1.4	1.0	.9
TOT OBS	128	590	560	205	43	1526		18.4	404	358	420	344
TOT PCT	8.4	38.7	36.7	13.4	2.8		100.0		100.0	100.0	100.0	100.0

MARCH

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TABLE 4

AREA 0004 SE NEWFOUNDLAND COAST
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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	2.2	20.0	45.5	24.3	5.9	1.2	18.3	100.0	404
06&09	1.4	.8	20.7	47.8	22.9	5.6	.8	17.9	100.0	358
12&15	1.0	1.4	23.3	42.1	23.3	8.3	.5	18.2	100.0	420
18&21	.9	1.5	16.6	45.3	25.6	8.7	1.5	19.5	100.0	344
TOT	15	23	310	688	366	109	15	18.4		1526
PCT	1.0	1.5	20.3	45.1	24.0	7.1	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	2.4	.8	2.9	8.0		6.1
NE	1.3	.8	2.1	6.4		6.4
E	.8	.3	1.4	5.8		6.9
SE	.6	.1	.7	4.9		7.0
S	1.1	.4	1.3	8.1		6.9
SW	1.7	1.6	3.4	8.6		6.3
W	4.3	2.2	5.6	8.3		5.5
NW	2.8	1.3	2.7	6.2		5.6
VAR	.0	.0	.0	.0		.0
CALM	.6	.1	.0	.4		3.4
TOT OBS	174	86	223	632	1115	6.1
TOT PCT	15.6	7.7	20.0	56.7	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	1.5	.6	.5	1.9	3.1	2.6	.4	.0	.1	.1	3.9	
NE	1.0	.0	.4	1.1	2.1	1.8	.6	*	.4	.2	3.0	
E	1.2	.0	.4	.8	1.5	1.4	.3	.1	.3	.2	2.0	
SE	1.3	.0	.3	.8	1.2	.7	.2	.2	.1	.2	1.4	
S	2.4	.1	.8	.7	2.0	1.5	.3	.3	.1	.2	2.3	
SW	1.1	.3	.6	1.2	3.8	2.9	.6	*	.1	*	4.6	
W	1.4	.0	.6	1.4	4.5	3.8	.6	.3	.4	.2	7.3	
NW	.7	.9	.2	1.3	2.7	2.8	.3	.0	.2	.1	4.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.1	.0	.0	.1	.0	.0	.0	.0	.7	
TOT OBS	122	7	43	103	232	195	37	11	19	13	333	1115
TOT PCT	10.9	.6	3.9	9.2	20.8	17.5	3.3	1.0	1.7	1.2	29.9	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	2.3	2.7	2.8	2.9	2.9	2.9	2.9
* OR >5000	1.1	3.2	3.7	3.8	3.9	3.9	3.9	3.9
* OR >3500	2.7	6.2	7.0	7.1	7.2	7.2	7.2	7.2
* OR >2000	10.3	21.6	23.9	24.1	24.4	24.5	24.5	24.5
* OR >1000	16.6	37.4	42.9	44.4	44.8	45.1	45.3	45.3
* OR >600	18.9	42.8	50.1	52.4	53.4	54.0	54.4	54.4
* OR >300	19.2	44.0	52.5	55.1	56.5	57.7	58.3	58.3
* OR >150	19.2	44.2	52.8	55.6	57.0	58.2	58.9	58.9
* OR > 0	19.2	44.3	53.8	57.5	60.8	64.3	69.5	69.7
TOTAL	213	490	596	637	673	712	769	772

TOTAL NUMBER OF OBS: 1107 PCT FREQ NH <5/8: 30.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.4	4.1	6.4	4.8	4.3	4.8	7.3	7.1	41.0	9.9	1177

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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	.1	.2	.5	.2	.3	.2	.4	.2	.0	.0	2.0	
<1/2	NO PCP	.6	.8	.7	.7	1.4	1.1	.3	.3	.0	.2	6.2	
	TOT %	.8	1.0	1.2	.8	1.7	1.3	.7	.5	.0	.2	8.2	
	PCP	.2	.1	.2	.1	.2	.2	.3	.2	.0	.0	1.6	
1/2<1	NO PCP	.1	.3	.3	.1	.3	.3	.1	.3	.0	.0	1.9	
	TOT %	.3	.4	.5	.3	.6	.5	.5	.5	.0	.0	3.5	
	PCP	.4	.1	.3	.3	.2	.4	.2	.1	.0	.0	2.2	
1<2	NO PCP	.3	.5	.3	.1	.3	.2	.2	.1	.0	.0	1.9	
	TOT %	.7	.7	.6	.4	.6	.6	.4	.2	.0	.0	4.1	
	PCP	.7	.6	.9	.9	.8	.6	.8	.3	.0	.1	5.6	
2<5	NO PCP	.7	.8	.3	.5	.5	.7	.5	.9	.0	.0	4.8	
	TOT %	1.3	1.4	1.2	1.3	1.3	1.4	1.2	1.3	.0	.1	10.4	
	PCP	1.1	.9	.7	.8	.7	1.6	1.9	1.3	.0	.0	9.1	
5<10	NO PCP	4.3	3.6	2.1	1.4	2.2	4.8	7.3	4.7	.0	.3	30.7	
	TOT %	5.4	4.5	2.8	2.2	2.9	6.4	9.2	6.0	.0	.3	39.8	
	PCP	.3	*	.0	*	.2	.1	.1	*	.0	.0	.8	
10+	NO PCP	4.9	3.5	2.1	1.1	2.9	4.7	7.9	5.6	.0	.4	33.1	
	TOT %	5.2	3.5	2.1	1.1	3.1	4.8	8.0	5.6	.0	.4	33.9	
	TOT OBS												1437
	TOT PCT	13.8	11.4	8.4	6.2	10.2	14.9	20.0	14.1	.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
	0-3	.0	.0	.0	.1	.0	.1	.0	.0	.0	.2	.3	
<1/2	4-10	.4	.3	.6	.2	.3	.2	.2	.3	.0		2.5	
	11-21	.4	.5	.3	.3	.4	.3	.3	.1	.0		2.5	
	22+	.1	.1	.3	.2	1.0	.7	.2	.1	.0		2.8	
	TOT %	.9	.9	1.2	.8	1.7	1.3	.7	.5	.0	.2	8.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.1	.1	.1	.0	.1	.2	.1	.1	.0		.7	
	11-21	.1	.2	.3	.1	.2	.1	.1	.1	.0		1.3	
	22+	.1	.1	.1	.2	.3	.2	.2	.3	.0		1.5	
	TOT %	.4	.4	.5	.3	.6	.5	.4	.5	.0	.0	3.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.1	.2	.0	.0	.2	.1	.0	.1	.0		.5	
	11-21	.3	.2	.4	.2	.2	.3	.2	.2	.0		1.9	
	22+	.3	.3	.2	.2	.3	.2	.2	.0	.0		1.5	
	TOT %	.7	.6	.5	.4	.6	.6	.4	.2	.0	.0	4.0	
	0-3	.1	*	.1	.0	.0	.0	.0	.0	.0	.1	.2	
2<5	4-10	.3	.3	.1	.1	.2	.2	.3	.3	.0		1.6	
	11-21	.5	.5	.7	.8	.6	.5	.4	.6	.0		4.6	
	22+	.5	.6	.4	.4	.4	.7	.5	.4	.0		3.9	
	TOT %	1.4	1.4	1.2	1.3	1.2	1.4	1.2	1.2	.0	.1	10.3	
	0-3	.1	*	.1	.2	.1	*	.0	.0	.0	.3	.7	
5<10	4-10	.8	.7	.5	.3	.7	.9	.9	1.1	.0		5.8	
	11-21	2.4	2.3	1.8	.9	1.5	2.6	3.9	2.6	.0		17.9	
	22+	2.2	1.4	.5	.8	.7	2.7	4.2	2.1	.0		14.6	
	TOT %	5.5	4.4	2.7	2.2	2.9	6.2	9.0	5.8	.0	.3	39.0	
	0-3	.1	*	.2	.0	.1	.1	.2	*	.0	.4	1.2	
10+	4-10	1.4	.7	.8	.5	1.3	1.7	1.3	1.4	.0		9.0	
	11-21	3.1	2.0	.8	.6	1.2	2.6	3.9	2.8	.0		16.9	
	22+	1.3	.8	.3	*	.7	.9	2.5	1.4	.0		8.0	
	TOT %	5.8	3.5	2.0	1.1	3.3	5.4	7.9	5.7	.0	.4	35.1	
	TOT OBS												1484
	TOT PCT	14.6	11.2	8.2	6.0	10.2	15.3	19.6	13.8	.0	.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
00Z03	10.8	.7	2.9	7.9	16.2	15.2	4.7	.7	2.2	1.1	62.5	37.5	277
06Z09	11.2	.0	3.4	8.2	23.2	18.4	1.9	.4	.7	.7	68.2	31.8	267
12Z15	7.4	1.0	4.3	9.0	26.1	19.4	3.3	1.0	1.7	1.3	74.6	25.4	299
18Z21	13.6	.7	4.4	10.8	16.6	15.9	3.1	1.7	2.0	1.4	70.2	29.8	295
TOT	122	7	43	103	234	196	37	11	19	13	785	353	1138
PCT	10.7	.6	3.8	9.1	20.6	17.2	3.3	1.0	1.7	1.1	69.0	31.0	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
00Z03	6.9	3.1	4.1	10.0	40.7	35.3	391
06Z09	7.2	3.8	3.5	9.9	40.9	34.8	345
12Z15	6.5	3.6	4.3	10.1	38.5	37.0	416
18Z21	12.3	3.5	4.1	11.1	35.4	33.6	342
TOT	121	52	60	153	581	527	1494
PCT	8.1	3.5	4.0	10.2	38.9	35.3	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
00Z03	11.2	16.4	29.4	34.9	35.7	269
06Z09	11.3	15.6	30.7	39.7	29.6	257
12Z15	7.2	15.9	33.4	42.4	24.1	290
18Z21	13.7	21.6	39.5	32.6	27.8	291
TOT	120	193	370	414	323	1107
PCT	10.8	17.4	33.4	37.4	29.2	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
40/44	.0	.2	.0	.0	.1	.0	.6	1.9	24	2.8
35/39	.0	.0	.1	.0	.5	2.0	4.5	12.6	167	19.7
30/34	.0	.0	.1	.0	1.7	7.4	15.4	28.4	458	54.0
25/29	.0	.0	.0	.4	2.2	4.4	5.0	4.8	142	16.7
20/24	.0	.0	.0	.0	.7	2.1	1.9	1.2	50	5.9
15/19	.0	.0	.0	.0	.0	.1	.2	.5	7	.8
TOTAL	0	2	2	11	44	136	234	419	848	100.0
PCT	.0	.2	.2	1.3	5.2	16.0	27.6	49.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.3	.4	.3	.9	.6	.2	.1	.0	.0
2.0	3.4	2.5	1.9	3.5	3.4	1.3	1.7	.0	.1
7.8	5.8	3.7	2.9	5.8	10.8	10.1	6.5	.0	.6
2.7	1.1	.8	.9	.7	1.7	6.3	2.7	.0	.0
.8	.4	.0	.0	.1	.1	2.4	2.1	.0	.0
.5	.0	.0	.0	.0	.0	.1	.2	.0	.0
13.9	10.9	7.4	6.0	11.0	16.5	20.3	13.4	.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
00Z03	41	40	38	32	22	15	13	31.0	398
06Z09	42	40	37	32	23	20	18	30.9	355
12Z15	44	40	38	32	22	18	10	31.1	414
18Z21	44	43	39	33	23	19	16	32.4	336
TOT	44	41	38	32	23	18	10	31.3	1503

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	.9	5.8	17.5	28.3	47.5	87	223
06Z09	.0	.5	5.8	13.5	26.9	53.4	89	208
12Z15	.0	3.0	4.7	17.6	27.0	47.6	87	233
18Z21	.0	2.6	4.7	15.3	28.4	48.9	87	190
TOT	0	15	45	137	236	421	88	854

MARCH

PERIOD: (PRIMARY) 1949-1971
(OVER-ALL) 1879-1971

AREA 0004 SE NEWFOUNDLAND COAST
46.0N 51.5W

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	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	24	.5	1.5
7/8	.0	.0	.0	.0	.0	.0	.3	1.9	.2	27	.8	1.4
6	.0	.0	.0	.0	.0	.1	1.1	.8	.0	24	.7	1.4
5	.0	.0	.0	.0	.0	.1	2.1	1.8	.0	47	1.0	3.0
4	.0	.0	.0	.0	.0	.4	3.7	.8	.0	58	1.2	3.7
3	.0	.0	.0	.0	.0	.7	5.7	.8	.0	84	1.4	5.7
2	.0	.0	.0	.0	.1	2.4	5.0	.5	.0	95	1.1	6.9
1	.0	.0	.0	.0	.1	5.3	5.4	.3	.0	132	.9	10.2
0	.0	.0	.0	.0	.2	7.2	4.2	.4	.0	142	1.7	10.3
-1	.0	.0	.0	.0	.8	5.1	2.6	.0	.0	101	.9	7.6
-2	.0	.0	.0	.0	1.9	4.4	1.3	.2	.0	91	.6	7.1
-3	.0	.0	.0	.0	3.2	2.4	.5	.1	.0	74	.3	6.0
-4	.0	.0	.0	.0	3.5	2.4	.4	.1	.0	75	.4	5.9
-5	.0	.0	.0	.8	2.3	1.4	.5	.0	.0	59	.4	4.6
-6	.0	.0	.0	.7	1.0	.9	.2	.1	.0	27	.2	2.1
-7/-8	.0	.0	.0	2.4	1.8	.3	.5	.1	.0	60	.3	4.8
-9/-10	.0	.0	.3	1.6	.2	.2	.0	.1	.0	27	.1	2.2
-11/-13	.0	.0	1.0	.7	.3	.2	.2	.0	.0	28	.0	2.4
-14/-16	.0	.2	.1	.2	.0	.1	.0	.0	.0	6	.0	.5
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-20/-22	.1	.0	.0	.1	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	1	3	16	76	181	390	398	105	15	1185	148	1037
PCT	.1	.3	1.4	6.4	15.3	32.9	33.6	8.9	1.3	100.0	12.5	87.5

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	.2	.4	.0	.0	.0	.0	.6
1-2	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	1.1	2.0	.2	.0	.0	3.2
5-6	.0	.0	1.9	.2	.0	.0	2.1
7	.0	.0	1.8	1.1	.0	.0	2.9
8-9	.0	.0	.4	.2	.0	.0	.6
10-11	.0	.0	.4	.7	.0	.0	1.1
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.2	.4	.0	.6
17-19	.0	.0	.0	.2	.0	.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	2.4	6.4	2.9	.4	.0	12.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.2	.0	.0	.0	.8
1-2	.0	.7	1.1	.0	.0	.0	1.8
3-4	.0	.5	1.5	.2	.0	.0	2.2
5-6	.0	.0	1.4	.4	.0	.0	1.9
7	.0	.2	.9	.4	.0	.0	1.6
8-9	.0	.0	.0	.1	.2	.0	.3
10-11	.0	.0	.1	.4	.0	.0	.5
12	.0	.0	.4	.3	.0	.0	.7
13-16	.0	.0	.0	.4	1.4	.0	1.8
17-19	.0	.0	.0	.1	.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	.1	1.9	5.7	2.3	1.6	.0	11.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.7	.8	.4	.0	.0	.0	1.9
3-4	.0	.4	1.8	.5	.0	.0	2.8
5-6	.0	.0	1.7	.0	.0	.0	1.7
7	.0	.0	.8	.2	.0	.0	.9
8-9	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.0	.0	.3	.0	.3
12	.0	.0	.0	.2	.2	.0	.4
13-16	.0	.0	.0	.2	.0	.2	.4
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	.7	1.7	4.9	1.3	.8	.2	9.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.7
1-2	.0	.6	.9	.0	.0	.0	1.4
3-4	.0	.0	1.1	.2	.0	.0	1.3
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.4	.4	.3	.0	1.2
10-11	.0	.0	.0	.2	.6	.0	.8
12	.0	.0	.0	.2	.0	.0	.2
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	1.0	3.3	1.3	.8	.0	6.7

MARCH

PERIOD: (OVER-ALL) 1963-1971 — AREA 0004 SE NEWFOUNDLAND COAST 46.8N 51.5W

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	.0	.0	.0	.0	.2
1-2	.0	.9	1.1	.0	.0	.0	2.0
3-4	.0	.0	.9	.4	.0	.0	1.4
5-6	.0	.2	.9	.2	.0	.0	1.3
7	.0	.0	.4	.4	.0	.0	.8
8-9	.0	.0	.4	.2	.2	.0	.8
10-11	.0	.0	.0	.6	.2	.4	1.3
12	.0	.0	.0	.2	.2	.0	.4
13-16	.0	.0	.0	.0	.2	.0	.2
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	1.4	3.7	2.0	1.1	.4	8.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	1.3	.6	.0	.0	.0	1.8
3-4	.0	1.3	3.1	.5	.0	.0	4.9
5-6	.2	.2	2.6	.6	.4	.0	4.0
7	.0	.1	1.3	.9	.0	.0	2.3
8-9	.0	.0	.0	.9	.2	.0	1.2
10-11	.0	.0	.2	1.7	.2	.0	2.1
12	.0	.0	.4	.2	.0	.0	.7
13-16	.0	.0	.1	1.2	.1	.1	1.3
17-19	.0	.0	.0	.2	.5	.0	.7
20-22	.0	.0	.0	.3	.3	.4	1.0
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	.2	3.1	8.3	6.5	1.9	.5	20.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2
1-2	.0	1.2	.6	.0	.0	.0	1.8
3-4	.0	.4	1.9	.6	.0	.0	3.0
5-6	.0	.0	2.4	.6	.0	.0	3.0
7	.0	.2	1.2	.4	.2	.0	1.9
8-9	.0	.0	.2	.6	.0	.0	.8
10-11	.0	.0	.2	.6	.0	.0	.8
12	.0	.0	.0	.2	.4	.0	.7
13-16	.0	.0	.2	.6	1.3	.2	2.2
17-19	.0	.0	.0	.2	.6	.0	.8
20-22	.0	.0	.0	.2	.6	.2	1.0
23-25	.0	.0	.0	.4	1.1	.0	1.6
26-32	.0	.0	.0	.0	.0	.2	.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	1.8	6.7	4.4	4.3	.6	18.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.2	.0	.0	.0	.0	.3	
1-2	.0	2.1	.4	.0	.0	.0	2.5	
3-4	.0	.2	1.6	.5	.0	.0	2.3	
5-6	.0	.0	1.2	.7	.0	.0	1.9	
7	.0	.0	.1	.1	.0	.0	.2	
8-9	.0	.0	.7	.8	.0	.0	1.5	
10-11	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.7	.4	.0	1.2	
17-19	.0	.0	.0	.0	.0	.2	.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	.1	2.5	4.2	2.8	.7	.2	10.5	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	2.7	2.4	.2	.0	.0	.0	5.3	
1-2	.9	8.6	5.1	.0	.0	.0	14.6	
3-4	.0	4.0	14.0	3.1	.0	.0	21.1	
5-6	.2	.4	12.4	2.7	.4	.0	16.2	
7	.0	.4	6.9	3.5	.2	.0	11.1	
8-9	.0	.0	2.4	3.3	.9	.0	6.7	
10-11	.0	.0	1.1	4.2	1.3	.4	7.1	
12	.0	.0	.9	1.6	.9	.0	3.3	
13-16	.0	.0	.2	3.5	3.8	.4	8.0	
17-19	.0	.0	.0	.7	1.6	.2	2.4	
20-22	.0	.0	.0	.4	1.1	.7	2.2	
23-25	.0	.0	.0	.4	1.1	.0	1.6	
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	
TOT PCT	3.8	16.0	43.2	29.5	11.5	2.0	100.0	451

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	.5	4.6	7.0	7.0	4.0	1.9	.3	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	240	5
6-7	.0	.6	1.8	5.8	6.7	3.9	3.5	1.6	1.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	241	8
8-9	.0	.1	.8	1.5	3.3	4.0	3.3	1.4	3.0	.6	1.1	.1	.1	.0	.0	.0	.0	.0	.0	180	10
10-11	.0	.3	.5	.4	1.1	.8	.9	1.0	1.5	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	68	10
12-13	.0	.0	.9	.4	.1	.2	.1	.3	.5	.1	.4	.1	.1	.0	.0	.0	.0	.0	.0	31	11
>13	.0	.0	.0	.0	.1	.2	.9	.3	.6	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	22	12
INDET	1.6	1.4	1.8	2.8	3.8	1.3	.8	.5	1.6	.0	.1	.4	.0	.0	.0	.0	.0	.0	.0	150	7
TOTAL	20	66	119	167	177	114	91	48	81	20	19	7	3	0	0	0	0	0	0	932	8
PCT	2.1	7.1	12.8	17.9	19.0	12.2	9.8	5.2	8.7	2.1	2.0	.8	.3	.0	.0	.0	.0	.0	.0	100.0	

APRIL

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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	2.4	.5	.6	1.1	9.6	.0	.0	13.4	1.6	.0	15.5	1.0	.6		.0	67.9
NE	6.3	.5	5.5	2.1	8.7	.0	.5	22.4	2.0	.0	24.9	1.2	.1		.0	49.3
E	9.0	.0	6.5	.9	7.2	.0	.0	22.7	4.3	.0	37.6	.0	.9		.0	36.5
SE	14.6	1.4	8.9	.9	8.2	.0	.0	32.1	.5	.9	36.4	.9	2.1		.0	28.0
S	7.7	3.0	6.7	.0	3.0	.4	.0	20.3	1.4	.0	27.5	1.6	.8		.0	48.4
SW	4.3	1.0	2.1	.1	4.9	.1	.0	10.8	2.9	.0	22.7	1.2	1.5		.0	60.8
W	3.4	.6	1.1	.3	8.2	.0	.0	12.6	3.1	.0	11.7	1.9	.6		.0	70.1
NW	4.1	1.0	2.6	.0	10.3	.0	.0	16.9	2.3	.0	10.8	.5	.5		.0	69.0
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	45.5	.0	.0		.0	54.5
TOT PCT	5.3	1.0	3.4	.6	7.4	.1	.1	16.6	2.3	.1	21.3	1.1	.8		.0	57.8
TOT OBS:	1665															

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	4.8	.7	3.7	.7	6.9	.0	.0	14.9	1.8	.2	18.8	.2	.9		.0	63.4
06&09	7.8	.6	3.9	.8	9.4	.0	.0	20.8	1.7	.0	23.5	1.1	.0		.0	52.9
12&15	4.8	1.3	3.7	.2	7.9	.0	.2	17.4	3.1	.0	20.0	2.2	1.3		.0	55.9
18&21	4.3	1.1	2.1	.7	5.5	.2	.0	13.5	2.5	.0	23.3	.9	.9		.0	58.9
TOT PCT	5.3	.9	3.3	.6	7.3	.1	.1	16.4	2.3	.1	21.3	1.1	.8		.0	58.0
TOT OBS:	1690															

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	3.5	7.2	3.4	1.5	.0		16.0	18.3	13.5	16.9	14.5	12.7	18.8	16.3	17.0	17.9
NE	.2	3.8	5.3	1.8	.2	.0		11.4	14.8	12.9	8.8	13.0	8.7	12.3	11.3	10.0	11.1
E	.4	2.3	3.0	1.2	.1	.0		6.9	14.3	5.8	8.6	7.2	7.2	5.2	11.5	7.2	8.3
SE	.3	1.8	3.3	1.1	.0	.0		6.5	14.5	7.1	6.6	5.3	7.2	7.0	7.6	6.0	6.2
S	.2	3.0	5.3	2.3	.4	.0		11.2	16.2	14.1	9.6	9.7	11.8	10.0	10.2	10.8	12.0
SW	.3	5.5	7.5	4.2	.6	.1		18.1	16.5	18.2	17.4	18.0	16.8	17.5	16.3	19.2	20.4
W	.6	4.9	8.1	2.5	.6	*		16.8	15.3	16.9	20.5	22.0	17.8	19.6	9.6	15.8	13.9
NW	.1	3.1	4.8	3.0	.6	*		11.6	17.5	10.1	11.6	8.6	16.8	11.6	15.4	13.0	10.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0	1.3	.0	2.6	1.0	2.0	1.7	1.1	.0
TOT OBS	69	495	787	344	73	2	1770		16.0	373	99	272	104	353	115	373	81
TOT PCT	3.9	28.0	44.5	19.4	4.1	.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	1.4	6.1	5.6	2.6	.4		16.0	18.3	14.2	14.0	18.2	17.1
NE	1.3	5.7	3.5	.7	.1		11.4	14.8	12.1	11.1	12.0	10.2
E	1.3	3.2	1.9	.5	.1		6.9	14.3	6.4	7.2	6.8	7.4
SE	.7	3.8	1.5	.5	.0		6.5	14.5	7.0	5.9	7.2	6.0
S	1.2	5.1	3.8	1.0	.1		11.2	16.2	13.2	10.3	10.0	11.0
SW	2.3	7.5	6.0	2.3	.1		18.1	16.5	18.1	17.7	17.2	19.4
W	1.8	8.9	4.5	1.4	.3		16.8	15.3	17.6	20.8	14.1	15.5
NW	1.2	4.7	3.8	1.6	.2		11.6	17.5	10.4	10.9	12.6	12.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	1.1	2.1	1.9	.9
TOT OBS	225	798	541	185	21	1770		16.0	472	376	468	454
TOT PCT	12.7	45.1	30.6	10.5	1.2		100.0		100.0	100.0	100.0	100.0

APRIL

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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	1.1	2.3	32.2	46.4	15.3	2.5	.2	14.8	100.0	472
06&09	2.1	2.7	26.1	44.1	22.1	2.9	.0	16.0	100.0	376
12&15	1.9	3.0	26.9	43.4	19.9	4.9	.0	16.3	100.0	468
18&21	.9	1.8	26.2	43.8	21.1	5.9	.2	16.8	100.0	454
TOT	26	43	495	787	344	73	2	16.0		1770
PCT	1.5	2.4	28.0	44.5	19.4	4.1	.1		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.2	1.0	2.5	10.0		6.4
NE	.9	.4	1.2	7.9		7.0
E	.5	.1	1.0	5.6		7.1
SE	.4	.1	.4	5.6		7.3
S	1.7	.6	1.3	7.5		6.5
SW	3.8	.9	3.3	10.3		5.9
W	4.1	1.8	2.8	7.9		5.4
NW	1.8	1.1	2.2	7.3		6.2
VAR	.0	.0	.0	.0		.0
CALM	.5	.1	.1	.8		5.1
TOT OBS	214	81	199	842	1336	6.3
TOT PCT	16.0	6.1	14.9	63.0	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	1.9	.2	.8	2.4	3.5	2.1	.4	.4	.2	*	3.8	
NE	2.2	.3	.8	1.7	1.8	1.0	.1	.0	.2	.3	2.1	
E	2.7	*	.7	.6	.7	.7	.0	.1	.2	.1	1.3	
SE	2.5	.1	.2	.9	1.0	.8	.2	.1	*	*	.8	
S	3.0	.2	.1	1.2	1.5	.7	.5	.1	.4	.2	3.3	
SW	2.7	.4	.8	2.1	2.6	2.1	.7	.2	.3	.1	6.3	
W	1.6	.0	.6	1.1	2.4	2.3	.5	.1	.2	.4	7.3	
NW	1.0	*	.3	2.0	2.8	1.9	.6	.2	.2	*	3.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.7	.0	.0	.0	.0	.1	.1	.0	.0	.0	.6	
TOT OBS	245	18	57	158	217	155	42	16	23	18	387	1336
TOT PCT	18.3	1.3	4.3	11.8	16.2	11.6	3.1	1.2	1.7	1.3	29.0	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	1.6	2.5	2.8	3.0	3.1	3.1	3.1	3.1
* OR >5000	2.2	3.5	4.0	4.2	4.2	4.2	4.2	4.2
* OR >3500	3.6	6.3	7.0	7.1	7.2	7.2	7.3	7.3
* OR >2000	7.4	16.4	18.2	18.5	18.6	18.7	18.8	18.8
* OR >1000	12.4	28.4	33.0	34.4	34.6	34.9	35.1	35.1
* OR >600	15.9	36.3	43.3	45.7	46.2	46.6	46.9	46.9
* OR >300	16.1	37.6	45.6	49.2	50.3	50.9	51.2	51.2
* OR >150	16.1	37.8	45.9	50.0	51.6	52.2	52.6	52.6
* OR > 0	16.1	37.8	46.7	51.8	55.0	59.9	68.5	71.0
TOTAL	216	508	627	696	738	805	920	954

TOTAL NUMBER OF OBS: 1343 PCT FREQ NH <5/8: 29.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
13.1	4.2	3.9	3.2	3.1	2.7	5.3	6.2	41.8	16.5	1463

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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	.4	.4	.5	.3	.9	.5	.2	.3	.0	.0	3.5	
<1/2	NO PCP	1.4	1.5	1.5	1.7	1.9	2.0	1.0	.5	.0	.4	11.9	
	TOT %	1.8	1.9	2.0	2.0	2.8	2.9	1.1	.9	.0	.4	15.4	
	PCP	.2	.5	.1	.1	.2	.1	.1	.1	.0	.0	1.5	
1/2<1	NO PCP	.2	.4	.3	.4	.4	.2	.2	.3	.0	.0	2.3	
	TOT %	.4	.9	.4	.5	.7	.3	.3	.4	.0	.0	3.9	
	PCP	.4	.4	.1	.2	.3	.4	.4	.3	.0	.0	2.5	
1<2	NO PCP	.5	.5	.2	.2	.5	.8	.4	.2	.0	.1	3.3	
	TOT %	.9	.8	.4	.3	.8	1.1	.8	.5	.0	.1	5.8	
	PCP	.5	.7	.3	.7	.2	.4	.5	.3	.0	.0	3.7	
2<5	NO PCP	1.0	.9	.8	.5	.7	1.5	.8	.7	.0	.1	7.0	
	TOT %	1.5	1.7	1.1	1.2	.9	1.9	1.3	1.0	.0	.1	10.7	
	PCP	.7	.5	.5	.8	.6	.5	.8	.9	.0	.0	5.2	
5<10	NO PCP	5.3	2.6	1.2	1.0	2.4	5.9	4.3	3.4	.0	.3	26.4	
	TOT %	6.0	3.0	1.7	1.8	3.0	6.4	5.1	4.3	.0	.3	31.6	
	PCP	.0	.1	.0	.0	.0	.1	.2	.1	.0	.0	.4	
10+	NO PCP	5.7	2.9	1.1	.8	2.8	6.1	8.1	4.6	.0	.4	32.3	
	TOT %	5.7	2.9	1.1	.8	2.8	6.1	8.2	4.7	.0	.4	32.7	
	TOT OBS												1661
	TOT PCT	16.3	11.2	6.7	6.6	11.0	18.3	16.9	11.8	.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
	0-3	.1	.1	.1	*	*	*	.1	.0	.0	.4	.8	
<1/2	4-10	.5	.7	.7	.7	.4	.7	.4	.2	.0		4.3	
	11-21	.7	1.1	.9	1.2	1.6	1.0	.6	.4	.0		7.4	
	22+	.5	.1	.3	.1	.8	.7	.0	.3	.0		2.8	
	TOT %	1.8	2.0	2.0	2.0	2.7	2.4	1.1	.8	.0	.4	15.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
1/2<1	4-10	.1	.2	.2	.2	.2	*	.1	.1	.0		1.1	
	11-21	.1	.2	*	.3	.3	.1	.2	.1	.0		1.4	
	22+	.2	.4	.1	.1	.2	.1	.0	.1	.0		1.2	
	TOT %	.4	.8	.4	.5	.7	.3	.3	.4	.0	.0	3.8	
	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1	
1<2	4-10	.3	.1	.1	.1	.1	.3	.4	.1	.0		1.4	
	11-21	.4	.4	.1	*	.4	.5	.3	.2	.0		2.2	
	22+	.2	.3	.2	.2	.3	.3	.1	.2	.0		1.9	
	TOT %	.9	.8	.4	.3	.8	1.1	.8	.5	.0	.1	5.6	
	0-3	.1	.1	.0	.0	.1	.1	.1	.0	.0	.1	.5	
2<5	4-10	.1	.4	.4	.1	.1	.5	.2	.1	.0		1.8	
	11-21	.8	.9	.4	.6	.3	.8	.5	.4	.0		4.7	
	22+	.5	.3	.4	.5	.4	.6	.5	.5	.0		3.6	
	TOT %	1.5	1.7	1.1	1.2	.9	1.9	1.3	1.0	.0	.1	10.6	
	0-3	.1	.1	.2	.2	*	.1	.0	.0	.0	.3	.9	
5<10	4-10	.8	.9	.4	.6	1.1	1.5	1.2	1.2	.0		7.7	
	11-21	2.7	1.4	1.0	.8	1.2	2.7	2.6	1.6	.0		14.0	
	22+	2.3	.6	.2	.2	.7	1.9	1.2	1.3	.0		8.5	
	TOT %	5.9	3.0	1.7	1.7	3.0	6.2	5.0	4.2	.0	.3	31.0	
	0-3	.2	.1	.1	.0	.0	.1	.4	.1	.0	.4	1.2	
10+	4-10	1.7	1.6	.6	.3	1.0	2.6	2.6	1.3	.0		11.6	
	11-21	2.7	1.3	.6	.5	1.5	2.5	4.0	2.2	.0		15.3	
	22+	1.2	.3	.1	.1	.4	1.1	1.3	1.1	.0		5.6	
	TOT %	5.7	3.2	1.4	.8	3.0	6.3	8.3	4.7	.0	.4	33.7	
	TOT OBS												1711
	TOT PCT	16.0	11.5	7.0	6.5	11.1	18.3	16.7	11.7	.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	17.6	.9	3.6	11.5	15.5	11.5	3.9	2.1	1.5	1.8	70.0	30.0	330
06&09	23.4	1.7	4.5	5.9	17.6	11.7	3.4	.7	1.7	.7	71.4	28.6	290
12&15	18.3	1.7	5.0	14.4	16.1	11.9	2.8	1.4	1.7	.8	74.2	25.8	360
18&21	15.0	1.0	3.9	14.0	15.8	10.6	2.3	.5	1.8	1.8	66.8	33.2	386
TOT	250	18	58	161	221	156	42	16	23	18	963	403	1366
PCT	18.3	1.3	4.2	11.8	16.2	11.4	3.1	1.2	1.7	1.3	70.5	29.5	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	13.0	3.1	4.8	9.7	34.7	34.7	455
06&09	17.0	5.9	7.3	9.7	26.5	33.5	370
12&15	17.9	3.2	5.6	11.4	30.8	31.0	464
18&21	13.6	3.1	4.9	12.1	30.6	35.6	447
TOT	266	65	97	187	536	585	1736
PCT	15.3	3.7	5.6	10.8	30.9	33.7	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	18.0	23.5	40.6	31.3	28.2	323
06&09	24.3	32.4	45.1	28.9	26.1	284
12&15	18.4	26.7	47.4	27.9	24.8	359
18&21	14.9	22.0	43.8	26.3	30.0	377
TOT	249	347	594	382	367	1343
PCT	18.5	25.8	44.2	28.4	27.3	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
50/54	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
45/49	.0	.0	.0	.0	.1	.1	.3	.1	6	.6
40/44	.0	.0	.0	.0	.8	.9	1.6	3.7	68	7.1
35/39	.0	.0	.0	.2	1.0	4.5	11.1	27.1	423	44.0
30/34	.0	.0	.0	.4	1.7	4.1	13.3	23.9	417	43.3
25/29	.0	.0	.0	.1	.2	.3	2.3	1.8	45	4.7
20/24	.0	.0	.0	.0	.0	.0	.1	.1	2	.2
TOTAL	0	0	0	7	37	95	277	546	962	100.0
PCT	.0	.0	.0	.7	3.8	9.9	28.8	56.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.0	.0	.0	*	.0	.0
.1	.2	.0	.0	.1	.1	.0	.1	.0	.0
.2	.3	.8	.7	2.3	1.6	.9	.3	.0	.1
4.2	3.4	2.9	3.2	6.4	11.8	8.1	3.7	.0	.2
7.8	4.7	2.4	2.3	2.8	6.5	10.0	6.7	.0	.1
1.3	.4	.1	.0	.1	1.0	1.0	.9	.0	.0
.1	.0	.0	.0	.0	.0	.1	.1	.0	.0
13.8	9.0	6.2	6.2	11.7	21.0	20.0	11.7	.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	45	43	40	34	29	26	21	34.0	468
06&09	50	44	39	34	28	26	23	33.9	376
12&15	49	45	40	34	28	23	21	34.3	460
18&21	47	45	41	35	30	27	23	35.4	451
TOT	50	44	40	34	28	25	21	34.4	1755

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	3.6	7.5	26.9	60.5	90	253
06&09	.0	.4	2.6	6.6	29.5	60.8	91	227
12&15	.0	.4	2.1	12.8	29.4	55.3	89	235
18&21	.0	.4	6.6	12.5	29.2	51.4	88	257
TOT	0	7	37	96	279	553	89	972

APRIL

PERIOD: (PRIMARY) 1952-1971
(OVER-ALL) 1879-1971

AREA 0004 SE NEWFOUNDLAND COAST
46.8N 51.3W

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	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.4	.3	.0	9	.2	.6
9/10	.0	.0	.0	.0	.5	.4	.1	.1	13	.1	1.0
7/8	.0	.0	.0	.4	2.0	1.0	.3	.0	44	.8	2.9
6	.0	.0	.0	1.2	2.3	.3	.2	.0	48	1.0	3.0
5	.0	.0	.0	2.3	3.8	.5	.1	.0	81	2.0	4.8
4	.0	.0	.2	4.3	2.8	.1	.0	.0	88	2.4	4.9
3	.0	.0	.6	6.2	2.7	.2	.0	.0	115	2.3	7.4
2	.0	.0	1.9	9.1	1.8	.1	.0	.0	154	3.3	9.5
1	.0	.0	3.0	7.9	.8	.2	.0	.0	142	3.0	8.9
0	.0	.3	5.5	6.4	1.1	.0	.0	.0	159	1.8	11.5
-1	.0	.3	4.0	3.6	.6	.0	.0	.0	102	1.8	6.7
-2	.0	.5	4.1	1.5	.4	.0	.1	.0	79	.7	5.9
-3	.0	.6	1.7	1.3	.3	.1	.0	.0	48	.6	3.4
-4	.1	1.5	1.3	.7	.1	.0	.0	.0	43	.8	2.8
-5	.1	.5	.8	.6	.3	.0	.0	.0	26	.4	1.8
-6	.1	.3	.3	.6	.1	.0	.0	.0	16	.1	1.3
-7/-8	.1	.3	.3	.4	.0	.0	.0	.0	14	.1	1.1
-9/-10	.2	.1	.3	.1	.0	.2	.0	.0	9	.0	.8
-11/-13	.1	.0	.0	.3	.0	.0	.0	.0	5	.3	.2
TOTAL	7	52	286	561	235	41	12	1	1195	258	937
PCT	.6	4.4	23.9	46.9	19.7	3.4	1.0	.1	100.0	21.6	78.4

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	.2	.0	.0	.0	.0	.0	.2
1-2	.0	1.3	.3	.0	.0	.0	1.7
3-4	.0	.3	1.3	.5	.0	.0	2.1
5-6	.0	.5	1.2	.7	.3	.0	2.7
7	.0	.0	1.1	1.5	.2	.0	2.8
8-9	.0	.0	1.2	.5	.1	.0	1.9
10-11	.0	.0	.0	.7	1.1	.0	1.9
12	.0	.0	.0	1.0	.2	.0	1.2
13-16	.0	.0	.0	.8	.2	.0	1.0
17-19	.0	.0	.0	.1	.2	.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	.2	2.1	5.1	5.9	2.3	.0	15.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	*	.0	.0	.0	1.2
1-2	.0	1.4	.6	.0	.0	.0	2.0
3-4	.0	.2	1.4	.0	.0	.0	1.7
5-6	.0	.3	2.7	.8	*	.0	3.9
7	.0	.0	1.7	.2	.0	.0	2.0
8-9	.0	.0	.0	.8	.0	.0	.8
10-11	.0	.0	.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	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	6.5	1.9	*	.0	11.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.1	.0	.0	.0	.5
1-2	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.3	.7	.3	.0	.0	1.4
5-6	.0	.0	1.1	.2	.0	.0	1.3
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2
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	1.6	2.2	1.5	.2	.0	5.6

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	.8	.2	.0	.0	.0	1.0
3-4	.0	.3	.5	*	.0	.0	1.0
5-6	.0	.0	.6	.2	.0	.0	.8
7	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.2	.0	.0	.2
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	.0	1.4	2.0	1.0	.0	.0	4.3

APRIL

PERIOD: (OVER-ALL) 1963-1971

AREA 0004 SE NEWFOUNDLAND COAST
46.8N 51.5W

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	.5	.1	.7	*	.0	.0	.0	.8
1-2	.0	.2	.5	.0	.0	.0	.7	.4	3.3	1.3	.0	.0	.0	4.9
3-4	.0	.8	2.1	.7	.0	.0	3.6	.0	1.5	2.5	.5	.0	.0	4.4
5-6	.0	.3	.9	.2	.0	.0	1.5	.0	.2	1.2	1.0	.4	.0	2.8
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	1.1	.7	.2	.0	2.0
8-9	.0	.2	.2	.7	.0	.0	1.1	.0	.0	.6	.8	.1	.0	1.5
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.4	.4	.2	.0	1.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	*	.2	.4
13-16	.0	.0	.0	.3	.5	.0	.9	.0	.0	.0	.6	.3	.0	.9
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	1.9	4.2	2.3	.5	.0	9.0	.5	5.7	7.1	4.2	1.2	.2	18.8

	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	.5	.7	.2	.0	.0	.0	1.4	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	2.0	1.3	.0	.0	.0	3.3	.0	1.1	.6	.0	.0	.0	1.7	
3-4	.0	1.7	3.9	.3	.0	.0	5.9	.0	.2	2.5	.5	.0	.0	3.2	
5-6	.0	1.0	1.3	.3	.0	.0	2.5	.0	.0	1.5	1.1	.2	.0	2.8	
7	.0	.0	.3	.3	.0	.0	.6	.0	.0	1.2	1.6	.0	.0	2.8	
8-9	.0	.0	.8	.8	.3	.1	2.0	.0	.0	.4	*	*	*	.5	
10-11	.0	.0	.2	.4	.0	.0	.6	.0	.0	.4	.6	*	.0	1.1	
12	.0	.0	.0	.0	.1	.0	.1	.0	.2	.0	.5	.2	.0	.9	
13-16	.0	.0	.0	.8	.1	.0	.9	.0	.0	.2	1.2	.2	.0	1.6	
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	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	
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	5.4	8.0	2.9	.6	.1	17.5	.0	1.7	6.7	5.6	.9	*	15.0	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	3.3	3.7	.6	.0	.0	.0	7.6	
1-2	.4	10.9	4.9	.0	.0	.0	16.2	
3-4	.0	5.5	14.8	2.9	.0	.0	23.2	
5-6	.0	2.3	10.5	4.5	1.0	.0	18.4	
7	.0	.0	6.6	4.3	.4	.0	11.3	
8-9	.0	.2	3.1	4.3	.6	.2	8.4	
10-11	.0	.0	1.0	3.5	1.4	.0	5.9	
12	.0	.2	.0	1.8	.6	.2	2.7	
13-16	.0	.0	.2	3.9	1.4	.0	5.5	
17-19	.0	.0	.0	.2	.4	.0	.6	
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	3.7	22.9	41.8	25.4	5.9	.4	100.0	512

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	.6	3.8	8.4	7.0	3.1	2.3	.8	.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	271	5
6-7	.1	.4	4.6	6.5	5.2	4.7	3.7	1.3	1.5	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	291	7
8-9	.0	.3	1.7	3.4	2.8	4.1	2.6	2.0	2.4	.1	.1	.3	.0	.0	.0	.0	.0	.0	.0	202	8
10-11	.0	.1	.2	.4	.5	.7	1.3	1.0	.8	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	95	10
12-13	.0	.0	.6	.0	.1	.1	.0	.1	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	19	8
>13	.0	.0	.0	.2	.0	.1	.3	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	10
INDET	1.9	2.4	2.7	4.1	2.4	1.5	1.3	.4	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	178	5
TOTAL	26	71	186	220	144	137	102	50	65	7	4	7	1	0	0	0	0	0	0	1020	7
PCT	2.5	7.0	18.2	21.6	14.1	13.4	10.0	4.9	6.4	.7	.4	.7	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1943-1971
(OVER-ALL) 1877-1971

AREA 0004 SE NEWFOUNDLAND COAST
46.8N 51.4W

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	4.2	1.6	4.0	.3	4.2	.0	.7	13.2	.8	.0	25.4	1.2	.2		.0	59.2
NE	7.3	1.3	4.9	.4	1.8	.0	.0	14.8	1.2	.1	31.5	1.4	.2		.4	50.4
E	5.9	1.3	5.3	.8	1.4	.0	.4	15.1	2.9	.3	41.7	1.3	1.5		.0	37.1
SE	7.9	.4	7.2	.5	1.0	.0	.0	17.0	1.4	.2	43.3	.5	.4		.0	37.1
S	8.6	.2	4.1	.0	.7	.0	.0	13.7	.8	.1	43.5	1.5	.6		.0	39.7
SW	4.9	.3	2.8	.0	.7	.0	.0	8.7	.4	.0	28.6	1.0	.7		.0	60.6
W	1.4	.5	1.6	.0	1.1	.0	.0	4.3	.6	.0	12.3	1.3	.6		.7	80.3
NW	2.2	2.1	2.7	.0	4.6	.0	.5	10.8	1.5	.0	16.9	1.7	.7		.0	68.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	4.0	.0	.0	.0	.0	4.0	.0	.0	56.0	1.0	2.0		.0	37.0
TOT PCT	5.2	.8	3.9	.2	1.6	.0	.1	11.4	1.0	.1	31.6	1.2	.7		.1	54.0
TOT OBS:	2675															

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	4.4	1.1	3.9	.1	1.6	.0	.3	10.7	.9	.1	30.9	.7	.7		.3	55.6
06&09	7.5	.9	3.9	.4	2.2	.0	.2	15.0	.7	.2	31.6	1.1	.4		.0	51.0
12&15	5.8	.1	4.3	.1	1.2	.0	.0	11.4	.8	.0	32.0	1.6	.6		.1	53.5
18&21	3.6	.9	2.9	.1	1.6	.0	.1	8.8	1.5	.0	31.7	1.5	.8		.0	55.7
TOT PCT	5.2	.8	3.7	.2	1.6	.0	.1	11.2	1.0	.1	31.6	1.2	.7		.1	54.2
TOT OBS:	2753															

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	2.8	4.5	2.3	.4	*		10.6	15.9	10.7	7.9	13.3	8.2	10.9	9.1	10.9	8.9
NE	.4	3.8	4.0	.9	.3	*		9.4	13.1	12.1	9.3	7.4	8.2	8.6	11.5	9.5	7.4
E	.7	4.2	2.9	.6	*	.0		8.4	11.1	8.5	8.2	7.9	9.3	7.8	9.1	8.7	8.7
SE	.5	3.3	4.1	.7	.1	.0		8.7	12.8	8.6	9.8	9.7	7.5	9.1	5.9	8.6	8.3
S	1.4	5.8	6.3	2.4	.2	.0		16.1	13.5	17.7	16.6	14.0	13.7	14.5	14.6	16.2	25.9
SW	.9	8.0	9.9	3.6	.7	.0		23.1	14.4	22.5	25.0	23.7	25.7	19.4	24.6	25.2	23.0
W	.5	3.6	5.3	2.1	.4	.0		11.9	15.0	10.2	14.3	12.9	15.0	14.0	12.7	10.1	8.0
NW	.3	2.7	3.2	1.7	.2	.0		8.1	15.0	7.0	7.4	9.3	6.5	9.4	11.0	6.6	7.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.7							3.7	.0	2.7	1.5	1.9	5.9	6.3	1.5	4.3	2.4
TOT OBS	263	1011	1182	425	69	2	2952		13.5	556	196	431	153	634	205	611	166
TOT PCT	8.9	34.2	40.0	14.4	2.3	.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	1.7	4.0	3.8	.9	.1		10.6	15.9	9.9	11.9	10.5	10.5
NE	2.2	4.6	1.9	.5	.1		9.4	13.1	11.4	7.6	9.3	9.1
E	2.2	4.6	1.4	.2	.0		8.4	11.1	8.4	8.3	8.2	8.7
SE	1.8	4.5	2.0	.4	.0		8.7	12.8	8.9	9.2	8.3	8.5
S	3.7	6.9	4.2	1.3	*		16.1	13.5	17.4	13.9	14.5	18.2
SW	3.8	11.6	5.7	2.0	*		23.1	14.4	23.2	24.2	20.6	24.7
W	1.9	5.4	3.7	1.0	*		11.9	15.0	11.2	13.4	13.7	9.6
NW	1.3	3.5	2.6	.6	*		8.1	15.0	7.1	8.6	9.8	6.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.7						3.7	.0	2.4	2.9	5.1	3.9
TOT OBS	659	1331	749	203	10	2952		13.5	752	584	839	777
TOT PCT	22.3	45.1	25.4	6.9	.3		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	2.4	4.5	35.5	41.5	13.3	2.7	.1	13.5	100.0	752
06&09	2.9	5.3	32.9	40.9	16.3	1.7	.0	13.7	100.0	584
12&15	5.1	6.2	36.1	37.5	13.6	1.3	.1	12.7	100.0	839
18&21	3.9	4.9	32.0	40.7	14.9	3.6	.0	14.1	100.0	777
TOT	108	155	1011	1182	425	69	2	13.5		2952
PCT	3.7	5.3	34.2	40.0	14.4	2.3	.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	1.5	.3	1.9	8.5		6.8
NE	.6	.5	1.1	7.6		7.2
E	.6	.4	.8	6.5		7.1
SE	.8	.1	.8	7.3		7.1
S	1.9	1.1	1.7	9.8		6.5
SW	5.6	1.7	4.7	10.4		5.5
W	5.0	1.1	2.5	4.5		4.5
NW	2.0	.7	1.2	3.9		5.4
VAR	.0	.0	.0	.0		.0
CALM	.6	.2	.5	1.7		5.8
TOT OBS	310	103	253	1008	1674	6.1
TOT PCT	18.5	6.2	15.1	60.2	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	2.3	.0	.4	1.6	2.7	1.9	.7	.0	.0	.2	7.5	
NE	2.0	.1	.5	1.4	1.8	1.4	.3	.1	.1	.3	1.9	
E	2.5	.1	.9	.7	1.1	1.0	.4	*	.1	.2	1.2	
SE	3.4	.1	.1	1.0	1.3	.7	.4	*	.1	.2	1.7	
S	4.7	.1	.3	1.0	1.5	1.1	.3	.1	.2	.8	4.4	
SW	4.9	.1	.4	1.6	2.1	1.6	.3	.2	.3	1.1	9.7	
W	1.3	.1	.2	.7	1.3	1.1	.4	.1	*	.3	7.6	
NW	.6	.1	.1	1.0	1.4	.7	.4	.1	.0	*	3.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.3	.1	.0	.2	.1	.3	.0	.0	.0	.0	1.1	
TOT OBS	385	11	51	155	221	166	51	10	15	51	558	1674
TOT PCT	23.0	.7	3.0	9.3	13.2	9.9	3.0	.6	.9	3.0	33.3	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	2.1	3.4	3.7	3.8	3.8	3.8	4.0	4.0
* OR >5000	2.5	4.0	4.2	4.4	4.4	4.4	4.5	4.5
* OR >3500	4.5	6.7	7.2	7.3	7.3	7.3	7.5	7.5
* OR >2000	8.7	15.1	16.3	16.7	16.9	17.1	17.3	17.3
* OR >1000	13.0	24.5	27.7	28.7	29.2	29.7	30.2	30.3
* OR >600	14.8	29.4	35.0	37.1	38.2	39.0	39.7	39.8
* OR >300	14.9	30.5	37.2	39.6	41.0	41.9	42.6	42.7
* OR >150	15.0	30.8	37.6	40.1	41.6	42.5	43.3	43.4
* OR > 0	15.0	31.1	38.6	41.5	45.2	51.2	63.3	66.2
TOTAL	255	527	654	704	767	868	1073	1123

TOTAL NUMBER OF OBS: 1696

PCT FREQ NH <5/8: 33.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
15.6	6.5	4.1	3.0	3.1	2.7	5.1	5.4	34.5	20.4	1838

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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	.1	.2	.1	.3	.5	.9	.0	.1	.0	.1	1.9	
<1/2	NO PCP	1.6	1.9	2.8	2.9	5.6	4.7	1.0	.8	.0	1.8	23.0	
	TOT %	1.7	2.1	2.9	3.2	6.1	5.7	1.0	.9	.0	1.8	24.9	
	PCP	.2	.1	*	.2	.2	.4	*	.1	.0	*	1.5	
1/2<1	NO PCP	.6	.4	.3	.4	.6	.7	.3	.2	.0	.1	3.4	
	TOT %	.8	.5	.4	.6	.8	1.1	.3	.3	.0	.1	4.9	
	PCP	.1	.1	.1	.1	.3	.1	*	.1	.0	.0	.9	
1<2	NO PCP	.4	.5	.2	.2	.4	.4	*	.2	.0	.1	2.5	
	TOT %	.5	.6	.4	.3	.7	.5	.1	.3	.0	.1	3.4	
	PCP	.6	.5	.6	.5	.7	.9	.1	.2	.0	.0	3.6	
2<5	NO PCP	.7	.5	.4	.4	1.1	.9	.2	.5	.0	.2	4.8	
	TOT %	1.3	1.1	.9	.9	1.8	1.3	.3	.6	.0	.2	8.4	
	PCP	.3	.5	.4	.3	.4	.5	.3	.3	.0	*	3.0	
5<10	NO PCP	3.2	2.7	1.6	1.8	2.8	4.8	2.5	2.3	.0	.3	22.1	
	TOT %	3.5	3.1	2.0	2.1	3.2	5.3	2.8	2.6	.0	.4	25.1	
	PCP	.1	*	.1	.1	.1	.1	*	*	.0	.0	.6	
10+	NO PCP	3.3	2.4	1.8	1.6	3.5	9.0	6.7	3.2	.0	1.1	32.7	
	TOT %	3.5	2.4	1.9	1.7	3.5	9.2	6.7	3.3	.0	1.1	33.3	
	TOT OBS												2669
	TOT PCT	11.3	9.7	8.5	8.8	16.1	22.9	11.3	8.1	.0	3.7	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
	0-3	.2	.3	.3	.1	.5	.3	.1	.1	.0	1.8	3.6	
<1/2	4-10	.8	1.1	1.4	1.3	2.2	1.9	.3	.3	.0		9.3	
	11-21	.5	.6	1.0	1.5	2.6	2.0	.5	.3	.0		9.0	
	22+	.1	.1	.1	.2	.7	.8	.1	.1	.0		2.2	
	TOT %	1.6	2.0	2.8	3.1	6.0	5.1	.9	.9	.0	1.8	24.1	
	0-3	.0	.0	.0	.1	.1	*	.0	.0	.0	.1	.2	
1/2<1	4-10	.3	.2	.2	.1	.4	.2	.2	.1	.0		1.6	
	11-21	.3	.2	*	.3	.1	.5	.1	.2	.0		1.7	
	22+	.2	.2	.2	.2	.2	.3	*	*	.0		1.3	
	TOT %	.8	.5	.4	.6	.8	1.0	.3	.4	.0	.1	4.9	
	0-3	.0	.0	.1	.0	*	*	.0	.0	.0	.1	.2	
1<2	4-10	.1	.2	.1	.2	.2	.1	*	*	.0		.8	
	11-21	.2	.3	.2	.1	.2	.3	.1	.1	.0		1.6	
	22+	.2	.1	*	.1	.3	.1	.0	.2	.0		.9	
	TOT %	.5	.6	.5	.3	.7	.5	.1	.3	.0	.1	3.5	
	0-3	.0	.0	.1	.0	.0	.0	*	.0	.0	.2	.3	
2<5	4-10	.2	.3	.3	.2	.5	.4	.1	.2	.0		2.2	
	11-21	.6	.4	.4	.5	.7	.5	.1	.2	.0		3.4	
	22+	.4	.2	.1	.1	.6	.4	.2	.3	.0		2.4	
	TOT %	1.2	1.0	.9	.9	1.8	1.3	.4	.7	.0	.2	8.3	
	0-3	.1	*	.1	.2	.2	.2	.1	*	.0	.4	1.4	
5<10	4-10	.6	.9	1.0	.7	1.1	1.5	.8	.5	.0		7.1	
	11-21	1.5	1.5	.7	1.0	1.3	2.6	1.3	1.0	.0		11.0	
	22+	1.2	.5	.2	.1	.5	.9	.7	.9	.0		5.0	
	TOT %	3.4	3.0	2.0	2.1	3.2	5.3	2.9	2.5	.0	.4	24.5	
	0-3	.2	.1	.2	.1	.5	.4	.3	.1	.0	1.1	3.1	
10+	4-10	1.1	1.1	1.1	.8	1.4	3.6	2.3	1.6	.0		12.9	
	11-21	1.4	1.0	.6	.7	1.6	3.9	3.2	1.2	.0		13.7	
	22+	.6	.2	.1	.1	.3	1.7	1.5	.5	.0		5.1	
	TOT %	3.3	2.4	1.9	1.8	3.7	9.7	7.3	3.4	.0	1.1	34.7	
	TOT OBS												2827
	TOT PCT	10.8	9.5	8.4	8.8	16.2	22.8	11.9	8.1	.0	3.6	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	24.3	.2	1.8	10.1	9.9	11.0	4.5	1.1	.5	3.4	66.9	33.1	444
06&09	29.1	.3	2.7	8.3	14.4	9.6	2.4	.3	1.1	1.9	69.9	30.1	375
12&15	20.4	1.2	3.9	8.6	14.2	10.2	3.0	.0	.7	2.8	65.0	35.0	431
18&21	17.9	.8	3.4	10.1	13.4	8.2	1.9	.8	1.3	3.8	61.6	38.4	476
TOT	390	11	51	161	223	168	51	10	15	52	1132	594	1726
PCT	22.6	.6	3.0	9.3	12.9	9.7	3.0	.6	.9	3.0	65.6	34.4	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	23.7	4.9	3.8	6.5	28.6	32.5	738
06&09	27.1	5.3	3.0	6.9	24.1	33.7	569
12&15	22.7	5.1	3.7	10.4	23.9	34.1	827
18&21	24.2	4.3	3.9	8.2	21.5	38.1	772
TOT	704	141	105	236	712	1008	2906
PCT	24.2	4.9	3.6	8.1	24.5	34.7	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	24.9	28.6	43.9	26.6	29.6	433
06&09	30.3	36.1	47.5	25.4	27.0	366
12&15	20.4	29.0	44.7	22.0	33.3	427
18&21	17.9	26.4	39.8	24.0	36.2	470
TOT	390	504	742	415	539	1696
PCT	23.0	29.7	43.8	24.5	31.8	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
55/59	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
50/54	.0	.0	.1	.0	.2	.1	.1	.2	12	.7
45/49	.0	.0	.0	.2	.4	.6	1.2	1.9	70	4.4
40/44	.0	.0	.0	.1	1.0	4.0	7.4	18.4	497	30.9
35/39	.0	.0	.0	.1	.9	2.8	11.0	37.9	847	52.7
30/34	.0	.0	.0	.0	.0	.5	2.6	8.2	180	11.2
TOTAL	0	0	1	7	40	129	359	1071	1607	100.0
PCT	.0	.0	.1	.4	2.5	8.0	22.3	66.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
.1	.1	.1	.1	.1	.2	.1	.1	.0	.0
.1	.0	.3	.4	1.1	1.3	.6	.3	.0	.3
1.6	2.3	2.6	4.1	6.6	8.0	3.3	1.5	.0	.9
7.8	5.8	4.4	3.9	5.5	11.9	7.3	5.4	.0	.6
2.5	1.6	1.4	.5	.6	1.4	1.3	1.9	.0	.1
12.1	9.9	8.8	9.1	13.8	22.7	12.5	9.1	.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	56	48	44	38	33	31	30	38.0	764
06&09	51	45	42	37	33	32	30	37.4	593
12&15	54	51	45	38	34	32	30	38.8	857
18&21	57	50	46	39	34	33	31	39.6	787
TOT	57	49	45	38	33	32	30	38.5	3001

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	1.9	6.5	21.6	70.0	91	464
06&09	.0	.6	.8	3.6	17.2	77.8	93	360
12&15	.0	.7	3.3	7.8	23.5	64.7	90	422
18&21	.0	.7	3.5	14.5	27.2	54.1	88	401
TOT	0	8	40	134	370	1095	91	1647

PERIOD: (PRIMARY) 1943-1971
(OVER-ALL) 1877-1971

AREA 0004 SE NEWFOUNDLAND COAST
46.6N 51.4W

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	29 32	33 36	37 40	41 44	45 48	49 52	53 56	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	*	.0	.1	3	*	.1
14/16	.0	.0	.0	.0	*	.2	.1	9	.1	.3
11/13	.0	.0	.0	.3	.6	.3	*	28	.3	.9
9/10	.0	.0	*	1.2	.9	.1	.0	53	1.0	1.2
7/8	.0	.0	1.7	2.7	1.1	.1	.0	130	2.1	3.4
6	.0	.3	1.9	2.2	.5	*	.0	115	1.9	3.0
5	.0	.4	5.0	2.8	.6	*	.0	207	3.3	5.6
4	.0	1.7	6.0	3.9	.6	*	.0	284	4.9	7.3
3	*	2.9	6.3	2.7	.3	.0	.0	284	4.0	8.2
2	*	5.6	6.8	1.8	*	.0	.0	332	4.4	10.0
1	.2	6.5	5.0	.9	*	.0	*	296	3.6	9.1
0	.5	5.9	3.8	1.1	.0	*	.0	264	2.9	8.5
-1	.4	3.5	1.5	.2	*	.0	.0	130	1.4	4.2
-2	.4	1.4	1.3	.3	*	.0	.0	81	.9	2.5
-3	.2	1.2	.2	.1	.0	.0	.0	40	.6	1.1
-4	.2	.8	.3	.2	.0	.0	.0	34	.5	.9
-5	.2	.3	.2	*	.1	.0	.0	20	.2	.6
-6	*	.2	.1	.0	.0	.0	.0	8	*	.3
-7/-8	.0	.2	.1	.0	.0	.0	.0	6	.1	.2
-9/-10	.0	.1	.1	.0	.0	.0	.0	5	.1	.1
-11/-13	.0	.0	.1	.0	.0	.0	.0	2	*	*
TOTAL	53	721	939	475	116	20	7	2331	757	1574
PCT	2.3	30.9	40.3	20.4	5.0	.9	.3	100.0	32.5	67.5

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	.5	1.0	.1	.0	.0	.0	1.5
1-2	.0	1.1	.3	.0	.0	.0	1.4
3-4	.0	.7	1.2	.1	.0	.0	2.0
5-6	.0	.0	.6	.4	.1	.0	1.1
7	.0	.0	.3	.2	.2	.0	.7
8-9	.0	.1	.1	.4	.0	.0	.5
10-11	.0	.0	.0	.3	.2	.0	.5
12	.0	.0	.0	.1	.1	.0	.2
13-16	.0	.0	.0	.0	.2	.0	.2
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	.5	2.8	2.7	1.5	.8	.0	8.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.7	*	.0	.0	.0	1.8
1-2	.1	1.0	.5	.0	.0	.0	1.6
3-4	.0	.5	.5	.0	.0	.0	1.0
5-6	.0	.2	1.0	.2	.0	.0	1.4
7	.0	.2	.1	.1	.0	.0	.5
8-9	.0	*	.1	.2	.0	.0	.3
10-11	.0	.0	.0	.1	.2	.0	.3
12	.0	.0	.0	.0	*	.0	*
13-16	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.1	.1	.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	3.6	2.2	.8	.7	.0	7.5

E

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	.1	1.3	2.0	.0	.0	.0	3.4
3-4	.1	.6	1.1	.1	.0	.0	1.9
5-6	.0	.2	.5	.2	.0	.0	.9
7	.0	.1	.5	.2	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
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	3.4	4.1	.5	.0	.0	8.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.0	.0	.0	.0	.7
1-2	.1	1.2	.5	.0	.0	.0	1.8
3-4	.0	.6	1.3	.1	.0	.0	1.9
5-6	.0	*	1.0	.1	.0	.0	1.0
7	.0	.0	1.0	.1	.0	.0	1.1
8-9	.0	.0	.1	.3	.0	.0	.5
10-11	.0	.0	.0	.7	.1	.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	.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	.5	2.1	3.8	1.3	.2	.0	8.0

MAY

PERIOD: (OVER-ALL) 1963-1971 AREA 0004 SE NEWFOUNDLAND COAST 46.8N 51.4W

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	.4	1.2	.0	.0	.0	.0	1.6
1-2	.9	2.2	.9	.0	.0	.0	4.0
3-4	.0	1.1	2.0	.6	.0	.0	3.7
5-6	.0	.1	1.5	.2	.0	.0	1.8
7	.0	.2	1.5	.3	.0	.0	2.0
8-9	.0	.2	.3	.7	.1	.0	1.3
10-11	.0	.0	.0	.6	.1	.0	.7
12	.0	.0	.0	.0	.3	.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	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	5.0	6.2	2.9	.5	.0	15.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.8	.1	.0	.0	.0	2.1
1-2	1.0	3.6	1.3	.0	.0	.0	5.8
3-4	.0	2.3	3.5	.7	.0	.0	6.5
5-6	.0	1.0	2.7	.8	.1	.0	4.6
7	.0	.1	1.6	1.0	.1	.0	2.9
8-9	.0	.0	.7	1.5	.1	.0	2.3
10-11	.0	.1	.0	1.0	.2	.0	1.3
12	.0	.0	.0	.4	.2	.0	.7
13-16	.0	.0	.0	.5	.1	.0	.7
17-19	.0	.0	.0	.2	.1	.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	1.1	8.9	9.9	6.2	1.0	.0	27.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.0	.0	.0	.0	.9
1-2	.3	1.1	.3	.0	.0	.0	1.6
3-4	.0	1.5	1.6	.5	.0	.0	3.7
5-6	.1	.4	1.0	.1	.0	.0	1.6
7	.0	.1	.8	.5	.0	.0	1.4
8-9	.0	.0	.4	.4	.0	.0	.8
10-11	.0	.0	.1	.2	.5	.0	.8
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.3	.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	3.7	4.2	2.0	.8	.0	11.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.7	.1	.0	.0	.0	1.2	
1-2	.1	1.2	.4	.0	.0	.0	1.7	
3-4	.0	.6	.5	.1	.0	.0	1.1	
5-6	.0	.3	.4	.3	*	.0	1.0	
7	.0	.0	.4	.1	*	.0	.5	
8-9	.0	.0	.1	*	.0	.0	.1	
10-11	.0	.0	.1	.7	.0	.0	.8	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	*	.2	.2	.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	.5	2.8	2.1	1.5	.3	.0	7.1	93.8

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	8.6	.3	.0	.0	.0	18.5	
1-2	3.1	12.4	6.0	.0	.0	.0	21.5	
3-4	.1	7.8	11.3	2.2	.0	.0	21.5	
5-6	.1	2.1	8.4	2.2	.2	.0	13.2	
7	.1	.7	6.1	2.6	.3	.0	9.8	
8-9	.0	.3	1.8	3.4	.2	.0	5.8	
10-11	.0	.1	.2	3.6	1.3	.0	5.2	
12	.0	.0	.0	.5	.6	.0	1.2	
13-16	.0	.0	.1	.9	.7	.0	1.7	
17-19	.0	.0	.1	.7	.5	.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	
								935
TOT PCT	13.0	32.1	34.4	16.3	4.2	.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	2.3	7.6	12.1	4.7	2.3	.4	.7	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	495	3
6-7	.0	.7	5.0	5.2	5.1	3.3	1.7	.2	.5	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	356	6
8-9	.0	.1	1.3	2.4	2.4	1.8	2.3	.7	.9	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	204	8
10-11	.0	.2	.5	.4	.9	.8	.4	.3	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	65	8
12-13	.0	.0	.2	.4	.4	.2	.0	.2	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	27	9
>13	.0	.0	.0	.1	.0	.2	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	10
INDET	5.6	5.1	5.9	5.3	3.3	1.6	.8	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	457	4
TOTAL	128	225	406	299	232	135	106	34	37	14	5	2	0	0	0	0	0	0	0	1623	5
PCT	7.9	13.9	25.0	18.4	14.3	8.3	6.5	2.1	2.3	.9	.3	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1938-1971
(OVER-ALL) 1869-1971

AREA 0004 SE NEWFOUNDLAND COAST
47.0N 51.5W

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	3.7	.8	2.6	.0	.2	.0	.0	7.3	1.5	.0	30.8	.9	.8		.0	58.6
NE	9.9	1.0	5.3	.0	.0	.0	.0	16.3	1.1	.0	29.5	1.6	1.0		.0	50.5
E	15.8	.7	9.0	.0	.5	.0	.0	26.0	3.2	1.2	25.3	1.4	1.4		.0	42.7
SE	12.5	.7	4.6	.0	.2	.0	.0	17.7	1.3	.2	36.1	2.0	.7		.0	42.3
S	5.2	1.2	1.6	.0	.1	.0	.0	8.1	.3	.3	48.5	.7	.4		.0	41.9
SW	3.5	.7	2.1	.0	.0	.0	.0	6.2	.6	.1	43.5	1.0	1.5		.0	47.1
W	1.2	.8	3.1	.0	.0	.0	.0	5.2	.8	.0	21.4	.2	1.4		.0	70.9
NW	3.0	.8	1.5	.0	.2	.0	.0	5.1	1.5	.0	25.8	.6	.4		.0	66.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.8	.0	.0	.0	.0	.0	.0	.8	.0	.8	41.3	1.7	1.7		.0	53.7
TOT PCT	5.2	.8	2.8	.0	.1	.0	.0	8.8	.9	.2	37.2	1.0	1.0		.0	51.0
TOT OBS:	3245															

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	7.9	.7	3.1	.0	.0	.0	.0	11.4	.8	.3	36.5	.9	.8		.0	49.3
06&09	6.5	.8	3.4	.0	.0	.0	.0	10.6	1.6	.1	38.3	.7	.4		.0	48.2
12&15	3.9	1.0	2.6	.0	.1	.0	.0	7.6	1.0	.0	39.8	1.1	1.7		.0	48.8
18&21	3.3	.7	1.8	.0	.2	.0	.0	6.1	.2	.3	33.5	1.3	.8		.0	58.1
TOT PCT	5.2	.8	2.7	.0	.1	.0	.0	8.7	.9	.2	37.1	1.0	1.0		.0	51.2
TOT OBS:	3354															

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	3.7	4.5	1.1	.1	.0		10.1	12.9	9.4	8.0	10.4	10.1	10.6	10.3	9.9	11.1
NE	.6	3.0	2.7	.4	.1	*		6.9	11.5	9.2	5.6	6.7	2.5	6.0	7.9	7.4	7.1
E	.4	2.2	1.4	.2	.1	.0		4.2	10.3	5.5	3.8	4.7	2.0	4.0	3.5	4.4	2.8
SE	1.1	3.5	3.3	.6	*	.0		8.5	11.0	8.7	11.5	7.6	8.4	6.9	10.7	7.8	13.0
S	1.1	8.5	8.2	1.8	*	.0		19.7	12.2	19.4	20.9	18.4	21.7	19.0	17.3	20.5	23.9
SW	.9	8.7	15.4	3.7	.2	.0		28.9	14.1	28.2	26.9	29.0	31.8	29.7	27.1	29.1	28.0
W	.5	4.3	4.4	1.0	.1	.0		10.3	12.4	8.7	14.5	11.2	10.2	10.9	11.2	10.1	5.0
NW	.4	3.0	3.5	.8	.1	.0		7.8	12.6	6.9	7.8	6.8	10.7	8.1	10.9	6.8	7.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.7							3.7	.0	4.0	1.0	5.2	2.5	4.7	1.1	4.0	1.6
TOT OBS	335	1321	1557	344	28	1	3586		12.2	622	193	537	238	805	275	727	189
TOT PCT	9.3	36.8	43.4	9.6	.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	4.9	2.3	.6	.0		10.1	12.9	9.1	10.3	10.5	10.1
NE	2.2	3.2	1.2	.3	.1		6.9	11.5	8.3	5.4	6.5	7.3
E	1.3	2.3	.6	.1	.0		4.2	10.3	5.1	3.9	3.9	4.1
SE	2.6	4.0	1.8	.2	.0		8.5	11.0	9.4	7.9	7.9	8.9
S	4.3	10.3	4.6	.5	.0		19.7	12.2	19.7	19.4	18.6	21.2
SW	3.8	15.1	8.8	1.1	.0		28.9	14.1	27.9	29.8	29.1	28.9
W	2.4	5.2	2.4	.3	.0		10.3	12.4	10.1	10.9	10.9	9.1
NW	1.8	3.7	2.0	.2	.0		7.8	12.6	7.1	8.0	8.8	7.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.7						3.7	.0	3.3	4.4	3.8	3.5
TOT OBS	872	1749	847	116	2	3586		12.2	815	775	1080	916
TOT PCT	24.3	48.8	23.6	3.2	.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	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.3	5.9	37.7	42.1	10.3	.6	.1	12.2	100.0	815
06&09	4.4	5.3	37.0	44.0	8.6	.6	.0	12.1	100.0	775
12&15	3.8	6.4	36.6	43.9	8.5	.8	.0	11.9	100.0	1080
18&21	3.5	4.7	36.2	43.6	11.0	1.0	.0	12.5	100.0	916
TOT	134	201	1321	1557	344	28	1	12.2		3586
PCT	3.7	5.6	36.8	43.4	9.6	.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	1.7	.9	1.2	6.1		6.2
NE	.5	.4	1.0	5.5		7.0
E	.3	.2	.8	3.7		7.1
SE	.5	.4	1.3	5.8		7.1
S	2.6	1.0	2.2	11.8		6.4
SW	6.3	2.4	4.3	16.3		5.8
W	3.9	1.3	2.3	3.8		4.6
NW	1.7	.3	1.6	3.8		5.8
VAR	.0	.0	.0	.0		.0
CALM	.9	.3	1.1	1.9		5.6
TOT OBS	326	125	278	1031	1760	6.1
TOT PCT	18.5	7.1	15.8	58.6	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	1.4	.1	.6	1.1	1.8	.8	.5	*	.1	.1	3.2	
NE	1.8	.1	.3	1.4	.7	1.3	.4	.2	.1	.2	1.1	
E	1.1	.1	.4	.6	1.0	.2	.4	.1	.0	.2	.9	
SE	2.6	.1	.4	.4	1.3	.6	.3	.3	.2	.4	1.4	
S	7.8	.1	.4	.9	1.4	.7	.3	.1	.2	.3	5.6	
SW	10.9	.1	.5	1.2	2.0	1.1	.8	.4	.5	.5	11.3	
W	1.5	.1	.2	.5	1.1	.8	.5	.1	.2	.1	6.2	
NW	1.3	*	.4	.4	.8	.9	.6	.2	.2	.0	2.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.4	.1	.1	.2	.2	.2	.2	.1	.0	.3	1.6	
TOT OBS	525	12	58	113	177	115	68	29	23	39	601	1760
TOT PCT	29.8	.7	3.3	6.4	10.1	6.5	3.9	1.6	1.3	2.2	34.1	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	1.9	3.0	3.5	3.6	3.6	3.7	3.7	3.7
* OR >5000	2.5	4.2	5.1	5.2	5.2	5.3	5.3	5.3
* OR >3500	4.3	7.1	8.6	8.9	9.1	9.1	9.2	9.2
* OR >2000	7.0	12.6	14.9	15.2	15.4	15.5	15.6	15.6
* OR >1000	11.0	19.8	23.7	24.7	25.2	25.4	25.6	25.6
* OR >600	13.0	23.8	28.9	30.7	31.3	31.6	31.9	32.0
* OR >300	13.4	25.1	31.4	33.7	34.3	34.7	35.1	35.2
* OR >150	13.4	25.2	31.7	34.2	34.7	35.2	35.7	35.8
* OR > 0	13.4	25.6	32.6	36.3	39.0	43.4	61.4	65.6
TOTAL	239	456	580	645	694	772	1093	1167

TOTAL NUMBER OF OBS: 1779 PCT FREQ NH <5/8: 34.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
14.8	5.8	5.7	4.0	3.0	2.7	4.5	5.9	26.5	27.1	1914

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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	*	.1	.1	.2	.4	.6	.1	.1	.0	*	1.6	
<1/2	NO PCP	1.7	1.2	.6	2.3	8.0	9.6	1.6	1.5	.0	1.3	27.9	
	TOT %	1.7	1.2	.7	2.6	8.4	10.9	1.7	1.6	.0	1.3	29.5	
	PCP	.1	*	*	.2	.2	*	.1	*	.0	.0	.6	
1/2<1	NO PCP	.4	.3	.2	.3	1.0	.9	.1	.1	.0	.2	3.3	
	TOT %	.4	.3	.2	.5	1.2	.9	.2	.1	.0	.2	3.9	
	PCP	.1	.1	.1	.1	.2	.5	.1	*	.0	.0	1.3	
1<2	NO PCP	.3	.3	.2	.3	.3	.9	.2	.2	.0	*	2.8	
	TOT %	.4	.5	.2	.4	.5	1.4	.3	.2	.0	*	4.1	
	PCP	.2	.4	.5	.4	.3	.9	.1	.1	.0	.0	2.3	
2<5	NO PCP	.8	.3	.3	.6	.5	2.2	.6	.4	.0	.2	6.0	
	TOT %	1.1	.7	.9	1.0	.8	2.9	.7	.5	.0	.2	8.3	
	PCP	.3	.4	.3	.5	.4	.9	.2	.1	.0	.0	2.5	
5<10	NO PCP	2.6	1.8	1.1	1.7	4.2	6.0	2.4	1.9	.0	.7	22.4	
	TOT %	2.9	2.2	1.4	2.1	4.6	6.9	2.5	2.0	.0	.7	24.9	
	PCP	.1	*	.1	.1	.1	.1	*	.1	.0	.0	.5	
10+	NO PCP	3.6	1.9	.9	1.8	4.2	7.9	4.6	3.2	.0	1.4	28.8	
	TOT %	3.6	1.9	.9	1.9	4.3	7.4	4.6	3.2	.0	1.4	29.2	
	TOT OBS												3235
	TOT PCT	10.2	6.8	4.4	8.5	19.8	28.9	10.1	7.7	.0	3.7	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
	0-3	.1	.1	.1	.4	.5	.4	.1	.1	.0	1.3	3.0	
<1/2	4-10	.8	.7	.4	1.3	3.1	2.7	.8	.9	.0		10.6	
	11-21	.7	.4	.2	1.0	3.9	5.7	.6	.5	.0		12.9	
	22+	.1	*	.0	.1	.8	1.4	.1	.1	.0		2.6	
	TOT %	1.7	1.3	.7	2.7	8.2	10.1	1.7	1.6	.0	1.3	29.2	
	0-3	*	.1	*	*	*	*	*	.0	.0	.2	.4	
1/2<1	4-10	.1	.1	.1	.2	.6	.3	*	.1	.0		1.5	
	11-21	.2	.1	.1	.2	.4	.5	.1	*	.0		1.6	
	22+	.1	*	.0	*	.1	.1	.1	.0	.0		.5	
	TOT %	.4	.3	.2	.5	1.2	1.0	.2	.1	.0	.2	4.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.1	
1<2	4-10	.2	.2	.1	.2	.1	.3	.2	.1	.0		1.3	
	11-21	.2	.2	.1	.1	.2	.9	.1	.1	.0		2.0	
	22+	*	*	*	.1	.2	.1	*	*	.0		.6	
	TOT %	.4	.4	.2	.4	.5	1.3	.3	.2	.0	*	3.9	
	0-3	*	.1	.1	*	*	.1	*	.1	.0	.1	.5	
2<5	4-10	.4	.1	.1	.3	.4	.5	.3	.1	.0		2.2	
	11-21	.6	.3	.5	.5	.2	1.3	.4	.2	.0		4.0	
	22+	.1	.2	.2	.1	.1	.6	.1	.1	.0		1.6	
	TOT %	1.1	.7	.8	1.0	.8	2.4	.8	.5	.0	.1	8.2	
	0-3	.1	*	.1	.3	.2	.1	*	*	.0	.7	1.7	
5<10	4-10	.7	.8	.8	.7	1.8	1.6	1.0	.5	.0		8.0	
	11-21	1.3	1.0	.4	.9	2.1	3.7	1.1	1.1	.0		11.6	
	22+	.6	.3	.1	.1	.5	.9	.3	.3	.0		3.0	
	TOT %	2.8	2.1	1.3	2.1	4.5	6.3	2.4	1.9	.0	.7	24.3	
	0-3	.3	.4	.2	.3	.3	.3	.3	.1	.0	1.5	3.6	
10+	4-10	1.5	1.2	.7	.9	2.3	3.0	2.0	1.3	.0		12.9	
	11-21	1.7	.5	.1	.6	1.5	3.4	2.2	1.6	.0		11.6	
	22+	.3	*	.0	.1	.2	.9	.4	.4	.0		2.4	
	TOT %	3.8	2.1	1.0	1.9	4.2	7.7	4.8	3.4	.0	1.5	30.4	
	TOT OBS												3412
	TOT PCT	10.2	6.9	4.3	8.5	19.5	28.8	10.2	7.8	.0	3.8	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	31.6	1.1	3.1	6.4	10.0	6.2	4.2	1.1	1.3	2.4	67.5	32.5	452
06&09	34.3	.2	3.2	6.9	9.6	5.9	3.0	1.6	1.4	2.3	68.4	31.6	437
12&15	28.1	1.1	3.9	6.4	9.4	6.2	4.7	1.3	1.1	2.6	64.7	35.3	467
18&21	24.1	.2	2.6	5.4	10.6	7.3	3.2	2.4	1.5	2.2	59.5	40.5	464
TOT	536	12	58	114	180	117	69	29	24	43	1182	638	1820
PCT	29.5	.7	3.2	6.3	9.9	6.4	3.8	1.6	1.3	2.4	64.9	35.1	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	30.2	5.1	3.0	7.4	28.2	26.1	788
06&09	31.5	3.1	4.2	7.6	23.8	29.8	765
12&15	30.3	4.7	4.4	9.3	24.4	26.9	1069
18&21	24.9	3.0	3.7	8.1	22.0	38.4	902
TOT	1028	141	136	288	863	1068	3524
PCT	29.2	4.0	3.9	8.2	24.5	30.3	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	32.4	39.6	53.4	19.4	27.3	444
06&09	34.6	39.7	52.0	20.2	27.8	431
12&15	28.1	35.2	49.5	19.3	31.2	455
18&21	24.7	30.7	44.5	20.5	35.0	449
TOT	532	645	886	353	540	1779
PCT	29.9	36.3	49.8	19.8	30.4	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
65/69	.0	.0	.0	.0	.1	.0	.0	.0	2	.1
60/64	.0	.0	.0	.1	.2	.2	.0	.1	10	.6
55/59	.0	.0	.0	.0	.2	.3	.5	.3	23	1.3
50/54	.0	.0	.1	.0	.5	1.6	3.9	4.5	181	10.4
45/49	.0	.0	.0	.1	.3	2.5	7.7	22.4	574	33.0
40/44	.0	.0	.0	.0	.2	1.7	8.9	31.0	724	41.7
35/39	.0	.0	.0	.0	.0	.5	1.8	10.2	218	12.6
30/34	.0	.0	.0	.0	.0	.0	.1	.2	5	.3
TOTAL	0	0	1	4	23	117	396	1194	1737	100.0
PCT	.0	.0	.1	.2	1.4	6.7	22.8	68.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.1	*	.0	.0	.0	.0	.0	.0
	.0	.0	*	*	.3	.1	.1	.0	.0	.0
	.1	.0	.1	.1	.3	.6	.2	.0	.0	.0
	.4	.4	.2	.4	2.6	4.0	1.3	.3	.0	.7
	1.3	1.2	1.4	3.3	8.0	12.2	3.6	1.6	.0	.5
	5.1	3.5	2.5	3.6	6.9	10.4	4.7	3.3	.0	1.7
	2.3	2.3	1.2	1.1	1.1	1.3	.9	1.7	.0	.7
	.1	.0	.0	.1	*	*	.0	.0	.0	.1
	9.2	7.3	5.5	8.6	19.2	28.6	10.9	7.0	.0	3.7

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	64	56	51	43	38	36	34	43.7	833
06&09	56	53	50	43	37	35	33	43.0	793
12&15	63	57	52	44	39	36	35	44.4	1100
18&21	65	59	54	45	39	37	32	45.3	929
TOT	65	57	52	44	38	36	32	44.2	3655

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	.7	4.0	18.6	76.5	93	451
06&09	.0	.2	.7	5.1	18.7	75.2	93	428
12&15	.0	.2	1.7	6.8	23.7	67.6	92	482
18&21	.0	.5	2.9	11.7	30.4	54.5	89	418
TOT	0	5	26	122	405	1221	92	1779

JUNE

PERIOD: (PRIMARY) 1938-1971
(OVER-ALL) 1869-1971

AREA 0004 SE NEWFOUNDLAND COAST
47.0N 51.5W

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	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	*	.0	.1	.0	4	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	8	*	.2
14/16	.0	.0	.0	.0	*	.0	.4	.4	.1	*	31	.2	.9
11/13	.0	.0	.0	*	.1	.6	.7	.2	.0	.0	47	.4	1.2
9/10	.0	.0	.0	.2	1.1	1.6	.4	*	.0	*	99	1.0	2.4
7/8	.0	.0	.1	.8	4.0	2.5	.3	*	*	.0	225	2.9	4.7
6	.0	.0	.2	1.8	2.6	1.3	.3	.0	.0	.0	178	2.4	3.7
5	.0	.0	.2	2.5	4.5	1.3	.1	.0	.0	.0	253	3.5	5.2
4	.0	.0	.8	5.4	4.2	1.2	.1	.0	.0	.0	344	5.0	6.8
3	.0	.0	1.6	5.6	3.3	1.0	.0	.0	.0	.0	335	4.9	6.5
2	.0	.0	3.0	6.2	2.9	.4	.0	.0	.0	.0	364	4.7	7.7
1	.0	.1	4.3	5.3	1.9	.4	.1	.0	.0	.0	353	3.9	8.2
0	.0	.1	3.2	4.0	1.3	.3	*	*	.0	.0	263	3.0	6.0
-1	.0	.3	3.2	1.5	.6	.2	.0	.0	.0	.0	173	1.8	4.1
-2	.0	.4	2.0	.9	.3	.2	*	.0	.0	.0	112	1.7	2.1
-3	.0	.3	1.0	.6	.1	.1	*	.0	.0	.0	65	1.0	1.2
-4	.0	.1	.6	.4	.1	.1	.0	.0	.0	.0	38	.8	.5
-5	*	.2	.1	.3	.0	*	.0	.0	.0	.0	19	.3	.4
-6	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	3	*	.1
-7/-8	.0	*	.1	*	.0	.0	.0	.0	.0	.0	5	.1	.1
-9/-10	.0	.0	*	.0	.1	.0	.0	.0	.0	.0	3	.1	*
-11/-13	*	*	.0	*	.0	.0	.0	.0	.0	.0	3	.0	.1
-14/-16	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	2	46	599	1047	794	326	79	22	10	2	2927	1105	1822
PCT	.1	1.6	20.5	35.8	27.1	11.1	2.7	.8	.3	.1	100.0	37.8	62.2

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	.2	1.3	.0	.0	.0	.0	1.5
1-2	.4	1.7	1.4	.0	.0	.0	3.4
3-4	.0	.4	1.1	.1	.0	.0	1.6
5-6	.0	.4	1.3	.5	.0	.0	2.1
7	.0	.0	.6	.6	.1	.0	1.3
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.2	.1	.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	.6	3.8	4.3	1.6	.2	.0	10.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.0	.0	.0	.0	.8
1-2	.2	1.2	.4	.0	.0	.0	1.8
3-4	.3	.5	.4	.0	.0	.0	1.2
5-6	.0	*	.2	.0	.1	.0	.3
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	.7	2.3	1.3	.0	.1	.0	4.4

E

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

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.8	.2	.0	.0	.0	1.6
1-2	.9	1.6	.7	.0	.0	.0	3.2
3-4	.0	.5	1.4	.0	.0	.0	1.9
5-6	.0	.1	.3	.3	.0	.0	.8
7	.0	.0	.3	.1	.0	.0	.4
8-9	.0	.0	.3	.0	.0	.0	.3
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	1.5	3.0	3.2	.5	.0	.0	8.2

PERIOD: (OVER-ALL) 1963-1971

JUNE

AREA 0004 SE NEWFOUNDLAND COAST
47.0N 51.5W

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	.2	.0	.0	.0	1.2	.3	.9	.0	.0	.0	.0	1.2
1-2	.4	3.2	1.6	.0	.0	.0	5.2	.2	4.3	.9	.0	.0	.0	5.4
3-4	.0	2.4	3.8	.3	.0	.0	6.5	.0	2.0	7.5	.1	.0	.0	9.6
5-6	.0	.4	2.1	.7	.0	.0	3.2	.1	.6	5.4	.7	.0	.0	6.8
7	.0	.1	1.2	.5	.0	.0	1.8	.0	.1	2.4	1.8	.1	.0	4.4
8-9	.0	.0	.3	.8	.0	.0	1.1	.0	.1	.5	.9	.1	.0	1.6
10-11	.0	.1	.1	.2	.0	.0	.4	.0	.0	.1	.9	.0	.0	1.0
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	*	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1	.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	.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	7.1	9.4	2.7	.0	.0	19.7	.6	7.9	16.8	4.9	.2	.0	30.4

	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	.1	1.0	.0	.0	.0	.0	1.1	.2	1.2	.0	.0	.0	.0	1.4	
1-2	.1	1.7	.6	.0	.0	.0	2.4	.0	1.3	.4	.0	.0	.0	1.6	
3-4	.1	1.2	1.7	.3	.0	.0	3.2	*	.5	1.0	*	.0	.0	1.5	
5-6	.0	.5	1.8	.2	.0	.0	2.4	.0	.1	1.0	.5	.0	.0	1.6	
7	.0	.0	.8	.2	.0	.0	1.0	.0	.1	.0	.5	.0	.0	.6	
8-9	.0	.0	.2	.1	.1	.0	.3	.0	.0	1.4	.3	.0	.0	1.7	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	*	.0	.2	
12	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	4.3	5.2	.8	.1	.0	10.6	.2	3.2	3.7	1.4	*	.0	8.5	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	7.7	7.4	.4	.0	.0	.0	15.4	
1-2	2.4	15.0	6.2	.0	.0	.0	23.6	
3-4	.5	7.5	17.2	.8	.0	.0	25.9	
5-6	.1	2.2	12.0	2.8	.1	.0	17.3	
7	.0	.3	5.5	3.5	.2	.0	9.6	
8-9	.0	.1	2.7	2.1	.2	.0	5.1	
10-11	.0	.2	.2	1.4	.1	.0	1.9	
12	.0	.0	.1	.5	.0	.0	.6	
13-16	.0	.0	.0	.4	.0	.0	.4	
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	
								991
TOT PCT	10.7	32.7	44.3	11.6	.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	2.3	11.5	14.5	8.1	2.8	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	679	3
6-7	.1	1.2	7.6	6.8	5.2	2.3	1.0	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	419	5
8-9	.0	.2	.9	1.4	2.1	.6	.8	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	116	7
10-11	.0	.1	.4	.2	.5	.2	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	7
12-13	.0	.0	.1	.1	.3	.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	8
>13	.0	.0	.0	.1	.1	.2	.0	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	11	10
INDET	5.2	5.9	3.7	3.7	3.3	2.0	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	410	4
TOTAL	127	319	455	340	241	106	46	29	16	1	1	0	0	0	0	0	0	0	0	1681	4
PCT	7.6	19.0	27.1	20.2	14.3	6.3	2.7	1.7	1.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1928-1970
(OVER-ALL) 1874-1970

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.4W

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	5.5	1.7	4.3	.0	.0	.0	.0	11.4	1.9	.0	15.9	1.0	1.0		.0	68.9
NE	13.0	1.1	7.9	.0	.0	.0	.0	22.0	.0	.0	31.3	1.1	.0		.0	45.6
E	14.3	3.0	8.9	.0	.0	.0	.0	26.1	1.7	.0	40.9	1.0	.0		.0	30.3
SE	10.5	.8	4.4	.0	.0	.0	.0	15.7	.4	.3	52.3	.1	1.1		.0	30.1
S	6.2	.7	3.9	.0	.0	.0	.0	10.3	.8	.2	57.1	.8	.4		.0	30.9
SW	4.0	.6	1.6	.0	.0	.0	.0	6.2	.6	.5	44.7	.8	2.1		.0	45.2
W	1.3	.9	1.6	.0	.0	.0	.0	3.7	.9	.0	33.2	1.2	1.9		.0	59.1
NW	.8	.3	3.4	.0	.0	.0	.0	4.5	.0	.0	16.4	3.2	1.3		.0	74.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	2.7	.0	2.7	.0	.0	.0	.0	5.4	.0	.0	56.8	.0	.0		.0	37.8
TOT PCT	5.6	.9	3.3	.0	.0	.0	.0	9.6	.7	.2	44.1	.9	1.2		.0	43.3
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
00603	6.5	.7	3.2	.0	.0	.0	.0	10.3	.4	.5	46.0	.7	1.4		.0	40.8
06609	7.4	.9	4.0	.0	.0	.0	.0	12.1	1.7	.4	40.4	.8	.8		.0	44.0
12615	5.2	.7	4.3	.0	.0	.0	.0	9.8	.5	.0	47.8	.5	.9		.0	40.5
18621	3.1	1.0	1.6	.0	.0	.0	.0	5.7	.2	.0	42.2	1.6	1.8		.0	48.4
TOT PCT	5.6	.8	3.3	.0	.0	.0	.0	9.5	.7	.2	44.2	.9	1.2		.0	43.2
TOT OBS:	2139															

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	2.3	1.9	.3	*	.0		5.0	11.2	5.2	4.3	4.6	2.9	5.8	7.7	4.0	4.2
NE	.3	2.1	1.9	.1	.0	.0		4.1	9.8	3.8	3.7	4.0	3.8	4.6	2.2	5.3	1.8
E	.3	2.5	1.3	.2	.1	.0		4.4	10.4	3.3	3.2	4.6	3.6	5.6	3.1	5.3	4.2
SE	.7	3.5	3.2	.4	.1	.0		7.9	10.9	10.4	8.6	6.2	7.8	6.9	9.5	7.4	6.8
S	1.2	10.4	12.6	1.9	.1	.0		26.2	12.3	27.3	25.3	23.4	28.4	22.9	31.5	28.0	31.8
SW	1.2	12.1	17.2	3.8	.2	.0		34.5	13.1	34.5	39.6	37.1	31.5	32.9	28.6	35.0	33.2
W	.4	4.9	5.6	.6	.1	.0		11.6	12.0	9.5	11.9	12.4	14.9	13.6	12.9	8.4	14.2
NW	.3	1.5	2.1	.7	*	.0		4.6	13.2	4.5	2.4	5.4	4.8	5.1	4.0	4.9	2.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	1.7	1.1	2.4	2.3	2.4	.5	1.8	1.1
TOT OBS	166	981	1132	199	14	0	2492		12.0	465	187	467	131	496	195	456	95
TOT PCT	6.7	39.4	48.4	8.0	.6	.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	1.7	2.3	.7	.3	.0		5.0	11.2	4.9	4.2	6.4	4.0
NE	1.3	2.4	.4	.0	.0		4.1	9.8	3.8	3.9	3.9	4.7
E	1.3	2.6	.4	.1	.0		4.4	10.4	3.3	4.4	4.9	5.1
SE	2.3	4.4	1.1	.2	.0		7.9	10.9	9.9	6.6	7.6	7.3
S	5.2	14.8	5.7	.5	*		26.2	12.3	26.7	24.5	25.4	28.6
SW	5.8	18.7	9.2	.7	*		34.5	13.1	35.9	35.9	31.7	34.7
W	2.6	6.5	2.3	.1	*		11.6	12.0	10.2	12.9	13.4	9.4
NW	.8	2.7	.7	.4	.0		4.6	13.2	3.9	5.2	4.8	4.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	1.5	2.3	1.9	1.6
TOT OBS	572	1353	508	57	2	2492		12.0	652	598	691	551
TOT PCT	23.0	54.3	20.4	2.3	.1		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1928-1970
(OVER-ALL) 1874-1970

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.4W

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	4.8	40.2	45.9	9.0	.6	.0	12.2	100.0	652
06&09	2.3	2.3	37.6	50.3	7.2	.2	.0	12.2	100.0	598
12&15	1.9	7.1	42.5	42.4	5.8	.3	.0	11.2	100.0	691
18&21	1.6	4.7	36.3	45.7	10.3	1.3	.0	12.7	100.0	551
TOT	46	120	981	1132	199	14	0	12.0		2492
PCT	1.8	4.8	39.4	45.4	8.0	.6	.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	.4	.8	3.7		6.8
NE	.1	.2	.8	2.9		7.2
E	.2	.2	.4	4.1		7.3
SE	.5	.6	.7	6.1		7.0
S	3.4	1.1	3.2	19.2		6.7
SW	8.3	2.8	3.9	17.8		5.6
W	4.4	1.0	1.3	4.4		4.5
NW	1.1	.3	.5	2.7		5.7
VAR	.0	.0	.0	.0		.0
CALM	.5	.1	.4	1.0		5.3
TOT OBS	280	99	179	912	1470	6.1
TOT PCT	19.0	6.7	12.2	62.0	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	.8	.0	.3	.3	1.6	.8	.1	.0	.1	.0	1.3	
NE	1.0	.1	.3	.5	1.0	.4	.0	.0	.1	.0	.7	
E	1.5	.1	.4	.4	1.1	.3	.0	.2	.1	.0	.8	
SE	3.3	.1	.3	.9	1.2	.3	.2	*	.1	.1	1.7	
S	14.1	.2	.5	1.7	1.8	1.0	.2	*	.1	.5	6.8	
SW	11.4	.2	.3	1.0	2.4	1.4	.7	.4	.4	1.1	13.6	
W	2.4	.0	.3	.3	1.2	.3	.2	.1	.2	.3	6.0	
NW	.6	.0	.2	.3	1.2	.5	*	.0	.1	.0	1.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.7	.0	.1	.1	.1	.1	.0	.0	.0	.0	1.0	
TOT OBS	526	10	40	81	171	74	20	11	19	29	493	1470
TOT PCT	35.8	.7	2.7	5.5	11.6	5.0	1.4	.7	1.0	2.0	33.5	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	1.6	2.6	2.9	2.9	2.9	2.9	2.9	2.9
* OR >5000	1.9	3.3	3.5	3.6	3.6	3.6	3.7	3.7
* OR >3500	2.8	4.6	4.8	4.9	5.0	5.0	5.0	5.0
* OR >2000	5.1	8.8	9.4	9.6	9.8	9.9	10.1	10.1
* OR >1000	8.2	16.8	19.3	20.2	20.7	21.0	21.5	21.6
* OR >600	9.3	19.6	23.6	25.2	26.0	26.4	27.0	27.1
* OR >300	9.8	20.9	25.7	27.5	28.5	28.9	29.6	29.8
* OR >150	9.9	21.1	26.0	28.0	29.0	29.6	30.3	30.4
* OR > 0	10.1	21.4	26.8	29.3	31.9	36.9	59.0	66.4
TOTAL	149	315	394	491	470	543	869	977

TOTAL NUMBER OF OBS: 1472

PCT FREQ NH <5/8: 33.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
19.8	9.9	5.7	3.1	3.1	2.1	4.2	2.9	23.3	39.9	1536

PERIOD: (PRIMARY) 1928-1970
(OVER-ALL) 1874-1970

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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
	PCP	.2	*	.1	.2	.9	.8	.2	*	.0	.0	2.5	
<1/2	NO PCP	.5	.8	1.3	3.3	12.3	12.3	2.7	.4	.0	.7	34.2	
	TOT %	.7	.9	1.4	3.5	13.3	13.1	2.9	.4	.0	.7	36.7	
	PCP	.1	.1	.1	*	.3	.2	.1	*	.0	.0	.9	
1/2<1	NO PCP	.1	.1	.4	.6	1.2	.9	.6	.1	.0	.0	4.0	
	TOT %	.2	.2	.6	.6	1.4	1.1	.7	.1	.0	.0	4.9	
	PCP	.0	.2	.2	.3	.4	.1	.0	.0	.0	*	1.1	
1<2	NO PCP	.1	.1	.1	*	.5	.7	.2	.1	.0	.1	1.9	
	TOT %	.1	.3	.3	.3	.9	.7	.2	.1	.0	.2	3.0	
	PCP	*	.1	.3	.2	.6	.5	*	.1	.0	.0	1.8	
2<5	NO PCP	.5	.4	.2	.5	1.3	1.2	.4	.2	.0	.1	4.6	
	TOT %	.5	.5	.5	.6	1.8	1.6	.4	.3	.0	.1	6.2	
	PCP	.5	.5	.5	.5	.5	.6	*	.1	.0	.0	3.0	
5<10	NO PCP	1.6	1.0	.8	1.5	4.2	7.5	2.6	1.4	.0	.2	20.8	
	TOT %	2.1	1.5	1.3	2.0	4.7	7.9	2.6	1.5	.0	.2	23.8	
	PCP	.0	*	.1	.1	.1	.1	*	.0	.0	.0	.5	
10+	NO PCP	1.7	.9	.8	1.3	4.3	9.0	4.3	2.1	.0	.6	24.9	
	TOT %	1.7	.9	.8	1.4	4.4	9.2	4.3	2.1	.0	.6	25.4	
	TOT OBS												2090
	TOT PCT	5.0	4.2	4.9	8.5	28.6	33.4	11.1	4.5	.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
	0-3	.2	.1	.1	.4	.5	.5	.2	.1	.0	.6	2.6	
<1/2	4-10	.4	.5	1.0	1.3	4.6	4.2	1.2	.2	.0		13.5	
	11-21	.1	.2	.2	1.5	6.8	6.6	1.3	.1	.0		16.8	
	22+	.0	.0	.0	.1	1.1	1.6	.2	.0	.0		3.0	
	TOT %	.7	.8	1.3	3.2	12.9	13.0	2.9	.4	.0	.6	35.8	
	0-3	.0	*	*	.1	*	*	*	.0	.0	*	.3	
1/2<1	4-10	.2	.1	.2	.2	.5	.3	.4	.1	.0		1.9	
	11-21	*	.1	.2	.3	.8	.6	.3	*	.0		2.3	
	22+	.0	.0	.1	.0	*	.2	*	.0	.0		.3	
	TOT %	.2	.2	.5	.6	1.4	1.1	.7	.1	.0	*	4.8	
	0-3	*	.0	.0	.0	*	.0	.0	*	.0	.2	.3	
1<2	4-10	.1	.1	.1	*	.2	.3	.1	.1	.0		.9	
	11-21	.0	.2	.1	.2	.4	.3	.1	.0	.0		1.2	
	22+	*	*	.1	.1	.1	.1	.0	*	.0		.5	
	TOT %	.1	.3	.2	.3	.8	.7	.2	.1	.0	.2	2.9	
	0-3	*	*	*	*	.2	*	.0	.0	.0	.1	.4	
2<5	4-10	.1	.3	.2	.3	.7	.6	.2	.2	.0		2.6	
	11-21	.1	.2	.2	.3	.8	1.1	.2	.2	.0		3.0	
	22+	*	.0	*	.1	.2	.1	.1	*	.0		.5	
	TOT %	.3	.5	.4	.7	1.8	1.7	.5	.4	.0	.1	6.5	
	0-3	.1	.1	.1	*	.1	.3	.1	*	.0	.2	1.0	
5<10	4-10	.7	.6	.7	1.0	1.5	2.5	1.0	.3	.0		8.3	
	11-21	1.0	.6	.5	.6	2.3	4.1	1.3	.8	.0		11.1	
	22+	.1	.1	.1	.2	.6	1.0	.3	.4	.0		2.7	
	TOT %	1.9	1.3	1.3	1.9	4.5	7.9	2.6	1.5	.0	.2	23.1	
	0-3	.2	*	*	.1	.3	.1	.1	.1	.0	.6	1.6	
10+	4-10	.7	.5	.5	.7	2.5	3.9	1.7	.7	.0		11.1	
	11-21	.7	.4	.3	.6	1.8	5.1	2.5	1.1	.0		12.3	
	22+	.2	*	.0	.0	.2	1.0	.1	.3	.0		1.9	
	TOT %	1.8	.9	.8	1.3	4.7	10.1	4.4	2.2	.0	.6	26.9	
	TOT OBS												2308
	TOT PCT	4.9	4.0	4.5	8.0	26.1	46.7	11.3	4.8	.0	1.7	100.0	

JULY

PERIOD: (PRIMARY) 1928-1970
(OVER-ALL) 1874-1970

AREA 0004 SE NEWFOUNDLAND COAST
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NM >4/8) AND OCCURRENCE OF NM <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	NM <5/8 ANY HGT	TOTAL OBS
00E03	36.5	.7	2.5	5.7	10.7	6.0	2.0	.7	.5	1.7	67.0	33.0	403
06E09	37.0	.5	2.9	3.6	10.4	6.3	1.6	.3	1.0	1.0	64.6	35.4	384
12E15	34.4	.6	2.9	7.5	11.6	4.9	.6	1.2	1.7	2.0	67.3	32.7	346
18E21	34.0	.8	2.4	5.9	12.8	2.4	1.1	.8	.8	2.9	63.9	36.1	374
TOT	535	10	40	85	171	74	20	11	15	29	990	517	1507
PCT	35.5	.7	2.7	5.6	11.3	4.9	1.3	.7	1.0	1.9	65.7	34.3	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
00E03	38.2	4.8	7.7	5.3	26.4	22.6	802
06E09	36.6	3.8	7.2	7.4	21.8	28.2	979
12E15	35.6	7.5	3.4	5.9	22.2	25.5	844
18E21	32.8	3.2	3.4	7.0	22.7	30.9	928
TOT	844	116	68	150	548	826	2353
PCT	35.9	4.9	2.8	6.4	23.3	26.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <90YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	37.7	43.0	52.9	17.3	29.8	393
06E09	37.6	43.1	52.9	15.6	31.5	378
12E15	34.4	42.1	52.8	18.1	29.1	337
18E21	34.3	40.7	50.8	16.5	32.7	364
TOT	531	622	771	248	453	1472
PCT	36.1	42.3	52.4	16.8	30.8	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	.0	.1	.0	.0	.0	.0	1	.1
70/74	.0	.0	.0	.1	.1	.0	.0	.0	2	.1
65/69	.0	.0	.0	.1	.1	.1	.4	.1	11	.8
60/64	.0	.0	.1	.1	.1	.7	2.3	1.2	62	4.5
55/59	.0	.0	.1	.0	.4	2.3	6.7	14.9	332	24.3
50/54	.0	.0	.0	.0	.3	1.2	11.8	33.6	641	46.9
45/49	.0	.0	.0	.0	.1	.4	3.1	17.5	288	21.1
40/44	.0	.0	.0	.0	.0	.0	.3	1.9	30	2.2
TOTAL	0	0	2	4	14	64	338	945	1367	100.0
PCT	.0	.0	.1	.3	1.0	4.7	24.7	69.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
.0	.0	.0	.0	.1	.1	.0	.0	.0	.0
.0	.0	.0	.0	.1	.5	.1	*	.0	.0
.1	.1	.0	.1	1.5	2.0	.6	.2	.0	.0
.7	.5	1.1	1.7	7.3	8.4	3.1	.8	.0	.7
2.6	2.1	2.4	4.0	11.2	16.9	5.4	1.4	.0	.7
1.6	1.8	1.8	2.5	3.9	5.3	2.2	1.8	.0	.2
.5	.3	.2	.1	.6	.3	.2	.1	.0	.0
5.4	4.7	5.6	8.4	24.7	33.6	11.7	4.4	.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
00E03	75	62	59	52	46	44	41	52.0	655
06E09	65	59	58	51	44	43	40	51.1	801
12E15	71	66	61	52	46	44	42	52.7	700
18E21	78	70	63	54	47	44	42	54.4	351
TOT	78	69	60	52	46	43	40	52.5	2507

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
00E03	.0	.0	.8	3.6	21.0	76.6	94	366
06E09	.0	.3	.3	2.5	18.8	78.2	94	362
12E15	.0	.6	1.1	5.0	26.7	66.7	92	360
18E21	.0	1.0	2.0	7.9	33.4	55.7	90	305
TOT	0	6	14	64	343	966	93	1393

JULY

PERIOD: (PRIMARY) 1928-1970
(OVER-ALL) 1874-1970

TABLE 17

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.4W

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

AIR-SEA	37	41	45	49	53	57	61	65	69	TOT	W	WO
TMP AIR	40	44	48	52	56	60	64	68	72		FOG	FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.1	.1	3	.0	.2
14/16	.0	.0	.0	.1	.0	.1	.3	.0	.0	8	.1	.4
11/13	.0	.0	.1	.2	.5	.9	.4	.2	.1	39	.7	1.3
9/10	.0	.0	.1	.3	.7	.8	.4	.2	.0	45	.9	1.4
7/8	.0	.0	.2	1.8	2.2	1.8	.7	.2	.0	123	2.9	3.5
6	.0	.0	.3	2.3	2.2	.9	.1	.1	.0	111	3.0	2.8
5	.0	.1	.9	3.4	3.0	1.4	.2	.0	.0	172	4.5	4.5
4	.0	.1	1.4	4.0	3.9	1.8	.4	.1	.0	220	5.3	6.3
3	.0	.2	1.8	4.6	4.2	2.0	.2	.0	.0	249	5.3	7.8
2	.0	.2	2.2	5.3	4.2	1.4	.1	.0	.0	257	6.5	7.0
1	.0	.6	3.4	4.1	3.4	.8	.1	.0	.0	236	5.3	7.1
0	.0	.2	2.9	2.9	2.8	.6	.0	.0	.0	180	4.2	5.3
-1	.0	.3	1.8	2.4	1.6	.2	.0	.0	.0	113	2.5	3.5
-2	.0	.2	.7	1.5	.4	.1	.1	.0	.0	57	1.3	1.7
-3	.0	.6	.4	.7	.4	.1	.0	.0	.0	41	1.1	1.1
-4	.1	.2	.4	.4	.1	.1	.0	.0	.0	22	.6	.6
-5	.0	.0	.2	.0	.0	.1	.0	.0	.0	5	.2	.1
-6	.0	.0	.1	.2	.0	.0	.0	.0	.0	6	.3	.1
-7/-8	.0	.1	.0	.0	.1	.1	.0	.0	.0	3	.0	.2
-9/-10	.0	.0	.1	.1	.2	.0	.0	.0	.0	7	.3	.1
-11/-13	.0	.1	.0	.1	.0	.0	.0	.0	.0	3	.0	.2
-14/-16	.0	.0	.0	.1	.0	.0	.0	.0	.0	2	.1	.1
TOTAL	1		318		570		94		4		856	1048
		48		655		260		14		1904		
PCT	.1	2.5	16.7	34.4	29.9	12.6	2.8	.7	.2	100.0	45.0	55.0

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	.3	.5	.0	.0	.0	.0	.8
1-2	.2	.3	.1	.0	.0	.0	.5
3-4	.0	.3	.8	.0	.0	.0	1.1
5-6	.0	.0	.8	.3	.0	.0	1.1
7	.0	.1	.1	.2	.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	.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	1.2	1.8	.6	.1	.0	4.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.8	.2	.0	.0	.0	1.0
1-2	.0	.5	.5	.0	.0	.0	1.0
3-4	.0	.6	1.3	.0	.0	.0	1.9
5-6	.0	.0	.3	.0	.0	.0	.3
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	*	1.9	2.4	.0	.0	.0	4.4

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	.3	.4	.0	.0	.0	.7
3-4	.0	.1	.5	.0	.0	.0	.6
5-6	.0	.0	1.1	.2	.0	.0	1.3
7	.0	.0	.2	.2	.2	.0	.5
8-9	.0	.0	.0	.0	.2	.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	.1	.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	1.3	2.2	.3	.4	.0	4.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.2	.0	.0	.0	.6
1-2	.1	1.3	.2	.0	.0	.0	1.6
3-4	.0	.9	2.6	*	.0	.0	3.6
5-6	.0	.2	1.7	.5	.0	.0	2.4
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	*	.0	*	.0	.0	.1
13-16	.0	.0	.0	.0	*	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	4.8	.6	*	.0	8.4

PERIOD: (OVER-ALL) 1963-1970

TABLE 18 (CONT)

AREA 0004 SE NEWFOUNDLAND COAST
45.9N 51.4W

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	1.6	.2	.0	.0	.0	1.8
1-2	.2	3.6	2.5	.0	.0	.0	6.4
3-4	.0	3.8	4.6	.5	.0	.0	8.9
5-6	.0	.3	3.5	.8	.2	.0	4.7
7	.0	.2	2.3	.5	.0	.0	2.9
8-9	.0	.0	1.3	.4	.0	.0	1.7
10-11	.0	.0	.3	.2	.0	.0	.5
12	.0	.1	.0	.1	.2	.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	.3	9.5	14.6	2.5	.3	.0	27.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.9	.5	.0	.0	.0	3.8
1-2	.3	2.6	1.9	.0	.0	.0	4.8
3-4	.0	2.4	8.9	.7	.0	.0	12.0
5-6	.0	1.1	5.0	1.4	.0	.0	7.6
7	.0	.0	2.3	1.5	.0	.0	3.8
8-9	.0	.0	.8	.5	.0	.0	1.3
10-11	.0	.0	.2	.2	.0	.0	.3
12	.0	.0	.2	.2	.0	.0	.3
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	.7	9.0	19.7	4.6	.0	.0	34.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.0	.0	.0	.0	1.1
1-2	.0	.7	.8	.0	.0	.0	1.5
3-4	.0	1.6	2.8	.1	.0	.0	4.4
5-6	.0	.6	1.4	.0	.0	.0	2.0
7	.0	.0	1.0	.6	.0	.0	1.6
8-9	.0	.2	.0	.2	.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	.2	3.8	6.0	.8	.0	.0	10.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	*	.2	.0	.0	.0	.0	.3	
1-2	.0	.4	.3	.0	.0	.0	.8	
3-4	.0	.6	.5	.0	.0	.0	1.1	
5-6	.0	.0	.5	.2	.0	.0	.7	
7	.0	*	.0	.4	.0	.0	.4	
8-9	.0	.0	.2	.2	*	.0	.3	
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	.2	.0	.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	*	1.3	1.5	1.1	*	.0	4.0	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	3.6	8.2	.9	.0	.0	.0	12.7	
1-2	1.2	9.7	6.8	.0	.0	.0	17.7	
3-4	.2	10.3	21.8	1.4	.0	.0	33.6	
5-6	.0	2.1	14.4	3.3	.2	.0	20.0	
7	.0	.3	6.1	3.3	.2	.0	9.8	
8-9	.0	.2	2.3	1.2	.3	.0	3.9	
10-11	.0	.0	.5	.3	.0	.0	.8	
12	.0	.2	.2	.6	.2	.0	1.1	
13-16	.0	.0	.0	.2	.2	.0	.3	
17-19	.0	.0	.0	.2	.0	.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	5.0	30.9	52.8	10.4	.9	.0	100.0	661

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	9.8	23.8	9.7	3.8	.8	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	661	4
6-7	.0	1.4	6.4	7.9	6.6	2.1	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	336	5
8-9	.0	.1	.5	2.0	1.5	1.5	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	7
10-11	.0	.2	.2	.5	.7	.4	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	7
12-13	.0	.0	.2	.0	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
>13	.0	.0	.0	.2	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	9
INDET	2.6	3.2	5.3	2.2	1.7	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	204	3
TOTAL	53	195	484	298	192	68	22	11	6	1	0	0	0	0	0	0	0	0	0	0	1330	4
PCT	4.0	14.7	36.4	22.4	14.4	5.1	1.7	.8	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1870-1970

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

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 WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
N	2.3	1.2	3.4	.0	.0	.0	.0	6.4	.6	.0	9.5	1.2	2.5		.0	79.8
NE	7.1	3.6	3.4	.0	.0	.0	.0	13.8	1.6	.0	17.2	.8	.0		.0	66.6
E	11.7	.7	1.6	.0	.0	.0	.0	14.1	.0	.0	26.7	.0	1.9		.0	57.4
SE	10.1	3.7	2.3	.0	.0	.0	.0	16.1	2.0	.0	35.7	.6	2.8		.0	42.6
S	8.1	1.3	3.0	.0	.0	.0	.0	12.2	2.1	.6	35.2	.6	1.6		.0	47.9
SW	2.4	.7	2.5	.0	.0	.0	.0	5.6	.5	.4	36.0	2.0	1.9		.0	53.8
W	1.1	1.2	1.8	.0	.0	.0	.0	4.1	1.1	.0	21.3	1.5	2.0		.0	70.0
NW	4.1	3.3	2.8	.0	.0	.0	.0	10.2	3.2	.7	11.5	1.5	3.3		.0	70.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	2.6	2.6	.0	.0	.0	.0	5.1	2.6	.0	35.9	5.1	.0		.0	51.3
TOT PCT	4.8	1.6	2.5	.0	.0	.0	.0	8.8	1.3	.3	28.5	1.3	1.9		.0	58.0
TOT OBS:	2236															

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 WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
00&03	5.4	2.1	3.1	.0	.0	.0	.0	10.7	.7	.5	25.3	.9	3.0		.0	59.1
06&09	3.3	1.7	3.7	.0	.0	.0	.0	8.7	1.7	.3	29.7	1.6	1.0		.0	57.0
12&15	4.7	.8	2.3	.0	.0	.0	.0	7.6	1.5	.0	33.3	1.8	1.6		.0	54.2
18&21	5.6	1.4	1.3	.0	.0	.0	.0	8.1	1.1	.2	27.4	1.3	2.3		.0	59.7
TOT PCT	4.7	1.5	2.6	.0	.0	.0	.0	8.8	1.3	.3	29.0	1.4	2.0		.0	57.4
TOT OBS:	2317															

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	3.2	9.3	.6	.1	.0		7.6	12.2	7.4	8.0	6.8	8.9	8.1	6.2	8.8	2.7
NE	.7	2.5	2.5	.3	.2	.0		6.1	11.5	4.2	3.4	5.7	10.1	6.4	5.3	7.8	11.3
E	.6	2.1	1.6	.4	*	.0		4.6	11.2	4.5	4.6	3.9	4.6	4.8	5.7	4.6	7.0
SE	.6	3.6	3.1	1.2	.1	.0		8.6	12.5	8.6	6.9	7.9	2.6	8.4	11.3	9.7	11.9
S	.8	7.2	9.0	1.8	.2	*		18.9	13.0	19.8	20.4	19.6	15.2	17.0	15.5	20.6	20.7
SW	1.4	10.5	14.6	3.4	.1	.0		30.0	13.4	32.4	30.9	30.0	29.3	29.7	29.5	28.3	30.2
W	.5	6.1	7.1	1.7	.1	.0		15.6	13.3	13.9	16.0	17.7	21.8	16.9	15.1	12.7	14.3
NW	.2	2.6	2.5	.8	.3	.0		6.5	14.0	7.3	7.0	6.0	7.5	5.8	10.9	5.9	1.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0	2.0	2.9	2.5	.0	2.8	.5	1.6	.0
TOT OBS	194	1030	1189	276	27	1	2717		12.7	505	175	562	87	569	190	547	82
TOT PCT	7.1	37.9	43.8	10.2	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	1.6	4.3	1.5	.2	*		7.6	12.2	7.6	7.1	7.6	8.0
NE	1.6	3.4	.9	.2	.1		6.1	11.5	4.0	6.3	6.1	8.2
E	1.1	2.5	.8	.2	.0		4.6	11.2	4.5	4.0	5.0	4.9
SE	2.3	4.1	1.8	.3	*		8.6	12.5	8.2	7.2	9.1	10.0
S	3.2	10.5	4.8	.3	.1		18.9	13.0	20.0	19.0	16.6	20.6
SW	4.6	16.2	8.4	.9	.0		30.0	13.4	32.0	29.9	29.6	28.5
W	2.4	8.4	4.3	.2	*		15.6	13.3	14.4	18.2	16.5	12.9
NW	1.1	3.5	1.2	.6	.1		6.5	14.0	7.2	6.2	7.1	5.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.0						2.0	.0	2.2	2.2	2.2	1.4
TOT OBS	540	1438	651	78	10	2717		12.7	680	649	759	629
TOT PCT	19.9	52.9	24.0	2.9	.4		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1870-1970

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

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	2.2	4.3	38.7	43.7	10.6	.6	.0	12.6	100.0	680
06&09	2.2	3.9	34.1	49.0	10.3	.6	.0	13.0	100.0	649
12&15	2.2	7.2	40.4	39.4	9.0	1.6	.1	12.2	100.0	759
18&21	1.4	4.8	38.0	43.7	11.0	1.1	.0	13.0	100.0	629
TOT	95	139	1030	1189	276	27	1	12.7		2717
PCT	2.0	5.1	37.9	43.8	10.2	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	.9	.6	2.3	3.3		6.1
NE	.7	.4	1.6	2.6		6.2
E	.3	.1	.7	3.4		7.1
SE	.5	.3	1.1	6.3		7.1
S	2.2	1.1	3.8	13.7		6.6
SW	7.4	2.9	4.6	15.0		5.5
W	5.9	2.2	2.9	5.8		4.5
NW	1.0	.7	1.5	2.6		5.9
VAR	.0	.0	.0	.0		.0
CALM	.3	.1	.4	.9		6.1
TOT OBS	324	142	319	905	1690	5.9
TOT PCT	19.2	8.4	18.9	53.6	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	.5	.1	.3	.6	1.2	1.4	.4	.0	.2	.2	2.2	
NE	.7	.0	.2	.8	.9	.8	.1	.0	*	.2	1.6	
E	1.3	.0	.3	.6	.7	.4	.1	.1	.0	.1	1.0	
SE	1.9	.1	.4	1.4	1.4	1.1	.2	*	.2	*	1.5	
S	6.6	.1	.7	1.6	2.7	1.8	.9	.1	.5	.5	5.3	
SW	8.4	.1	.7	2.5	2.5	1.6	.4	.1	.2	.8	12.6	
W	2.1	.0	.4	.8	1.6	1.0	.5	.1	.3	.3	9.6	
NW	.2	.2	.2	1.0	1.1	.8	.1	.1	*	.1	2.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.6	.1	.1	.1	.1	.2	.1	.1	.0	.1	.4	
TOT OBS	376	12	36	160	207	152	46	8	24	38	611	1690
TOT PCT	22.2	.7	3.3	9.5	12.2	9.0	2.7	.5	1.4	2.2	36.2	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	1.8	3.2	3.4	3.4	3.4	3.4	3.5	3.5
* OR >5000	2.1	3.6	3.8	3.9	3.9	3.9	4.0	4.0
* OR >3500	3.4	5.4	6.1	6.4	6.4	6.4	6.5	6.5
* OR >2000	7.8	13.5	14.5	15.0	15.2	15.2	15.3	15.3
* OR >1000	13.2	23.1	25.8	26.7	27.0	27.1	27.1	27.1
* OR >600	16.6	30.0	34.8	36.0	36.6	36.7	36.8	36.8
* OR >300	17.2	31.5	37.3	38.9	39.6	39.7	40.0	40.0
* OR >150	17.2	32.0	37.9	39.5	40.2	40.4	40.7	40.7
* OR > 0	17.4	32.7	39.5	42.7	45.0	48.6	61.4	63.7
TOTAL	304	571	689	745	786	848	1072	1112

TOTAL NUMBER OF OBS: 1746 PCT FREQ NH <5/8: 36.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
19.9	5.8	6.2	5.2	3.1	2.9	5.2	6.5	28.0	21.2	1840

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1870-1970

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

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	*	.1	.1	.1	.5	.7	.2	*	.0	*	1.8	
<1/2	NO PCP	.2	.6	2.2	5.1	7.2	2.2	.3	.0	.5	19.0		
	TOT %	.3	.7	.7	2.4	5.6	7.9	2.3	.3	.0	.6	20.8	
	PCP	.1	.1	*	.0	.2	.1	.0	*	.0	.0	.5	
1/2<1	NO PCP	.2	.1	.2	.2	.8	1.1	.2	.1	.0	.0	3.0	
	TOT %	.3	.2	.3	.2	1.0	1.2	.2	.1	.0	.0	3.5	
	PCP	.0	.0	*	.1	.2	.1	.1	*	.0	.0	.4	
1<2	NO PCP	.1	.1	.2	.2	.7	1.2	.4	.1	.0	.1	3.2	
	TOT %	.1	.1	.3	.3	.9	1.3	.5	.1	.0	.1	3.6	
	PCP	.2	.3	.1	.3	.6	.4	.1	.2	.0	.0	2.2	
2<5	NO PCP	.4	.2	.3	.4	1.1	1.9	.9	.3	.0	.1	5.6	
	TOT %	.9	.4	.4	.8	1.7	2.2	1.0	.5	.0	.1	7.7	
	PCP	.2	.3	.3	.8	.9	.4	.2	.3	.0	.0	3.3	
5<10	NO PCP	2.1	1.6	1.1	2.2	3.9	7.4	4.0	1.8	.0	.2	24.3	
	TOT %	2.2	1.9	1.4	3.0	4.8	7.8	4.2	2.1	.0	.2	27.6	
	PCP	*	.1	*	.1	.1	*	*	.1	.0	*	.6	
10+	NO PCP	3.9	2.3	1.6	2.0	5.8	9.3	7.6	2.8	.0	.7	36.1	
	TOT %	3.9	2.4	1.7	2.2	6.0	9.4	7.7	2.9	.0	.8	36.7	
	TOT OBS												2226
	TOT PCT	7.1	5.7	4.8	8.8	20.0	29.9	15.9	6.0	.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
	0-3	*	.1	*	.1	.3	.4	.1	*	.0	.7	1.7	
<1/2	4-10	.1	.3	.3	1.0	1.9	2.4	1.1	.3	.0		7.5	
	11-21	.1	.3	.4	.7	2.4	4.2	1.0	*	.0		9.2	
	22+	.0	*	*	.4	.9	.7	*	.0	.0		2.0	
	TOT %	.3	.7	.7	2.2	5.5	7.7	2.3	.3	.0	.7	20.3	
	0-3	.0	*	.0	*	.1	*	.0	.0	.0	.0	.2	
1/2<1	4-10	.1	.1	.2	.1	.3	.5	.1	.1	.0		1.4	
	11-21	.1	.2	*	.1	.4	.5	.1	*	.0		1.4	
	22+	.0	.0	.0	*	.1	.2	.0	.0	.0		.4	
	TOT %	.2	.3	.2	.2	.9	1.2	.2	.1	.0	.0	3.4	
	0-3	*	.1	.1	.0	.0	.0	*	.0	.0	.1	.3	
1<2	4-10	.1	*	.1	.1	.3	.3	.2	*	.0		1.2	
	11-21	.0	.0	.1	.1	.3	.8	.3	.1	.0		1.6	
	22+	.0	*	.1	*	.2	.2	*	.0	.0		.6	
	TOT %	.1	.1	.4	.3	.9	1.3	.6	.1	.0	.1	3.8	
	0-3	*	*	*	.0	*	.1	.0	*	.0	.1	.4	
2<5	4-10	.1	.1	.2	.1	.6	.6	.4	.1	.0		2.1	
	11-21	.2	.3	.2	.5	.9	.9	.5	.2	.0		3.6	
	22+	.2	.1	*	.2	.2	.6	.1	.2	.0		1.4	
	TOT %	.5	.5	.4	.7	1.6	2.1	1.0	.5	.0	.1	7.5	
	0-3	*	.2	.2	.2	.1	.3	.1	.1	.0	.3	1.5	
5<10	4-10	.9	.7	.5	.9	1.3	2.3	1.7	.8	.0		9.1	
	11-21	1.1	.8	.5	1.0	2.5	4.2	1.8	.7	.0		12.6	
	22+	.3	.1	.2	.6	.5	.7	.3	.5	.0		3.2	
	TOT %	2.3	1.8	1.4	2.7	4.5	7.4	4.0	2.0	.0	.3	26.4	
	0-3	.2	.3	.2	*	.3	.4	.2	.2	.0	.8	2.4	
10+	4-10	1.7	1.3	.8	1.3	2.9	3.9	2.4	1.3	.0		15.8	
	11-21	1.7	1.1	.4	.8	2.7	4.6	3.7	1.5	.0		16.5	
	22+	.3	.2	.1	.2	.2	1.3	1.3	.3	.0		4.0	
	TOT %	3.8	2.8	1.6	2.4	6.1	10.1	7.6	3.3	.0	.8	38.6	
	TOT OBS												2492
	TOT PCT	7.3	6.2	4.7	8.6	19.6	29.8	15.7	6.3	.0	1.9	100.0	

AUGUST

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1870-1970

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

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	20.6	.9	3.2	8.5	12.6	8.5	2.8	.2	1.4	2.3	61.0	39.0	436
06&09	29.2	1.1	2.2	9.7	9.5	7.7	1.9	.2	1.1	2.4	64.9	35.1	465
12&15	22.2	.7	3.9	9.3	12.5	8.3	3.5	.7	1.9	1.9	64.8	35.2	432
18&21	17.6	.4	3.5	10.1	12.3	10.1	2.2	.7	1.1	2.0	60.1	39.9	454
TOT	402	14	57	168	209	155	46	8	24	38	1121	666	1787
PCT	22.5	.8	3.2	9.4	11.7	8.7	2.6	.4	1.3	2.1	62.7	37.3	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	18.3	2.5	3.5	8.1	29.1	38.5	629
06&09	23.3	3.3	3.5	6.5	26.3	37.1	634
12&15	24.3	4.0	3.5	7.5	24.2	36.6	708
18&21	16.6	3.3	4.6	8.1	25.2	42.1	803
TOT	535	85	97	194	673	990	2574
PCT	20.8	3.3	3.8	7.5	26.1	38.5	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	21.2	26.9	41.5	23.8	34.7	424
06&09	29.8	34.2	47.3	20.7	32.0	459
12&15	22.5	29.4	43.6	25.1	31.3	422
18&21	18.4	23.4	41.7	23.1	35.1	441
TOT	403	498	761	404	581	1746
PCT	23.1	28.5	43.6	23.1	33.3	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
75/79	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
70/74	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
65/69	.0	.0	.0	.1	.1	.6	1.0	2.1	62	3.9
60/64	.0	.0	.0	.1	.3	2.5	7.6	13.7	383	24.3
55/59	.0	.0	.0	.1	.6	3.3	13.5	29.1	734	46.7
50/54	.0	.0	.0	.0	.3	1.5	6.7	13.4	345	21.9
45/49	.0	.0	.0	.0	.0	.2	1.3	1.4	45	2.9
40/44	.0	.0	.0	.0	.0	.0	.0	.1	2	.1
TOTAL	0	0	0	5	24	128	475	941	1573	100.0
PCT	.0	.0	.0	.3	1.5	8.1	30.2	59.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
.0	.0	.0	.0	*	*	.0	.0	.0	.0
.1	*	.2	.1	.7	2.0	.8	.1	.0	.0
.4	.7	1.0	1.8	6.0	8.0	5.4	.7	.0	.3
3.0	2.2	2.1	4.1	10.0	14.4	7.5	2.5	.0	.8
3.5	2.3	1.2	1.6	3.7	4.8	2.1	2.4	.0	.4
.8	.2	.1	.3	.3	.2	.2	.8	.0	.1
*	.0	.0	.0	.1	.0	.0	*	.0	.0
7.9	5.4	4.6	7.8	20.8	29.4	16.0	6.5	.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	75	66	64	57	50	47	45	57.1	696
06&09	68	65	63	56	50	47	43	56.6	672
12&15	75	69	65	58	51	47	46	57.7	771
18&21	80	71	67	59	51	48	46	59.1	638
TOT	80	68	65	57	51	47	43	57.6	2777

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	1.2	7.1	27.3	64.1	91	410
06&09	.0	.0	.7	3.3	26.7	69.3	93	430
12&15	.0	.2	1.6	10.8	27.5	59.8	90	425
18&21	.0	1.8	2.6	12.8	37.6	45.2	88	383
TOT	0	9	25	138	488	988	91	1648

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1870-1970

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

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	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	*	*	2	.0	.1
20/22	.0	.0	.0	.0	.0	.1	*	.0	.0	4	*	.1
17/19	.0	.0	.0	.0	.0	.1	.0	*	*	6	.0	.2
14/16	.0	.0	.0	.0	.0	*	.1	.1	*	6	.1	.2
11/13	.0	.0	.0	.0	.1	.4	.4	.1	.0	21	.4	.6
9/10	.0	.0	.0	.1	.5	.6	.5	.1	.0	38	.5	1.3
7/8	.0	.0	*	.9	1.2	1.4	.5	.0	.0	83	1.6	2.5
6	.0	.0	*	.6	1.5	1.3	.3	*	.0	78	1.1	2.7
5	.0	.0	.2	.9	3.0	1.6	.3	.1	.0	126	1.8	4.4
4	.0	.0	.3	1.5	3.7	2.0	.3	*	.0	160	2.7	5.1
3	.0	*	.4	3.1	5.2	2.1	.6	.0	.0	236	4.4	7.1
2	.0	.0	1.1	4.0	5.1	2.3	.4	*	.0	265	4.2	8.7
1	.0	.0	1.0	4.9	5.8	2.4	.3	.0	.0	295	4.0	10.4
0	.0	.2	1.1	5.9	4.0	1.7	.1	.0	.0	266	4.0	9.0
-1	.0	.3	1.3	3.6	2.1	.7	*	.0	.0	164	2.3	5.7
-2	.0	.3	1.2	2.3	1.6	.2	*	.0	.0	116	1.4	4.3
-3	.0	.2	1.1	1.5	.6	.1	.0	.0	.0	71	.6	2.8
-4	.0	.2	.7	.8	.5	.0	.0	.0	.0	45	.2	2.0
-5	*	.1	.3	.7	.3	.1	.0	.0	.0	35	.3	1.4
-6	.0	.0	.2	.3	.1	*	.0	.0	.0	15	.1	.6
-7/-8	.0	*	.1	.2	.1	.0	.0	.0	.0	10	.2	.3
-9/-10	.0	.0	*	.0	*	.0	.0	.0	.0	2	.0	.1
-11/-13	.0	*	.1	.0	.0	.0	.0	.0	.0	3	.0	.1
-14/-16	.0	.0	.0	*	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1	30	195	642	725	356	82	14	3	2046	614	1432
PCT	*	1.5	9.5	31.4	35.4	17.3	4.0	.7	.1	100.0	30.0	70.0

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	.1	.5	.1	.0	.0	.0	.7
1-2	.1	1.1	.5	.0	.0	.0	1.7
3-4	.0	.7	1.0	.0	.0	.0	1.7
5-6	.0	.2	.9	.3	.0	.0	1.4
7	.0	.0	.2	.2	.0	.0	.4
8-9	.0	.1	.1	.0	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.1	.1	.0	.2
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	2.7	2.7	.8	.3	.0	6.7

NE

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	1.1	.5	.0	.0	.0	1.6
3-4	.0	.4	.9	.0	.0	.0	1.2
5-6	.0	.0	.2	*	.0	.0	.2
7	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.0	.1	.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	2.3	1.8	.1	.4	.0	4.9

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	.8	.0	.0	.0	.0	.8
3-4	.0	.8	.2	.0	.0	.0	1.0
5-6	.0	.2	.4	.2	.0	.0	.8
7	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.2	.3	.0	.0	.5
10-11	.0	.0	.1	.1	.0	.0	.2
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	1.9	1.0	.8	.1	.0	3.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.1	.0	.0	.0	1.0
1-2	.0	.9	.6	.0	.0	.0	1.5
3-4	.0	.6	.6	.0	.0	.0	1.1
5-6	.0	.1	1.4	.6	.0	.0	2.1
7	.0	.1	.4	.5	.0	.0	1.0
8-9	.0	.0	.1	.2	.0	.0	.2
10-11	.0	.0	.1	.2	.0	.0	.4
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	*	.1	.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	2.4	3.4	1.5	.1	.0	7.6

PERIOD: (OVER-ALL) 1963-1970

AUGUST

TABLE 18 (CONT)

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

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	1.1	.2	.0	.0	.0	1.4
1-2	.1	2.5	2.1	.0	.0	.0	4.7
3-4	.1	1.5	4.7	.0	.0	.0	6.3
5-6	.0	.4	3.2	.5	.0	.0	4.1
7	.0	.2	.9	1.1	.0	.0	2.2
8-9	.0	.0	.2	.3	.1	.0	.6
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	.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	.0	.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	.3	5.6	11.2	2.2	.2	.1	19.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.7	*	.0	.0	.0	1.1
1-2	.2	3.8	2.4	.0	.0	.0	6.4
3-4	*	2.6	6.8	.3	.0	.0	9.7
5-6	.0	1.0	4.6	1.4	.0	.0	7.0
7	.0	.1	2.5	1.7	.1	.0	4.5
8-9	.0	.2	.9	.4	.0	.0	1.5
10-11	.0	.0	.7	.5	.0	.0	1.2
12	.0	.0	.1	.1	.0	.0	.2
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	8.4	18.2	4.5	.1	.0	31.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.1	.0	.0	.0	.9
1-2	.0	2.1	.8	.0	.0	.0	3.0
3-4	.0	1.5	3.9	.6	.0	.0	6.0
5-6	.0	.3	2.5	.3	.0	.0	3.1
7	.0	.0	1.2	1.2	.1	.0	2.5
8-9	.0	.0	.9	.5	.1	.0	1.5
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	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	9.4	2.8	.2	.0	17.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.3	.3	.0	.0	.0	.7	
1-2	*	.4	.3	.0	.0	.0	.7	
3-4	.0	.4	.4	*	.0	.0	.8	
5-6	.0	.2	.8	.1	.0	.0	1.1	
7	.0	.2	.4	.3	.0	.0	1.0	
8-9	.0	.0	.3	.5	.0	.0	.7	
10-11	.0	.1	.0	.2	.1	.0	.5	
12	.0	.0	.0	.1	.3	.0	.4	
13-16	.0	.0	.0	.0	*	.0	*	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	1.7	2.4	1.3	.4	.0	6.0	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	3.8	5.2	.8	.0	.0	.0	9.8	
1-2	.7	12.5	7.2	.0	.0	.0	20.4	
3-4	.2	8.3	18.3	.9	.0	.0	27.8	
5-6	.0	2.5	13.8	3.4	.0	.0	19.7	
7	.0	.7	5.6	5.2	.2	.0	11.7	
8-9	.0	.4	2.7	2.1	.2	.0	5.4	
10-11	.0	.1	.9	1.4	.2	.0	2.7	
12	.0	.0	.2	.2	.6	.0	1.1	
13-16	.0	.0	.0	.6	.4	.0	.9	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.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	4.7	29.7	49.6	19.9	1.9	.1	100.0	846

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	1.0	9.6	17.5	8.2	4.1	.8	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	651	4
6-7	.1	1.3	6.0	8.3	7.5	3.7	1.6	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	463	6
8-9	.0	.3	2.2	2.1	1.7	1.3	1.1	.5	.6	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	154	7
10-11	.0	.1	.1	.5	.7	.5	.3	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	7
12-13	.0	.0	.0	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	6
>13	.0	.0	.0	.0	.0	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	10
INDET	2.8	3.0	3.9	3.5	1.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	238	3
TOTAL	61	224	462	358	246	109	53	23	16	5	0	1	1	0	0	0	0	0	0	1557	5
PCT	3.9	14.4	29.7	23.0	15.7	7.0	3.4	1.5	1.0	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1930-1970
(OVER-ALL) 1869-1970

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.4W

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	4.9	.4	4.3	.0	.0	.0	.0	9.2	.9	.0	7.2	.2	.4		.0	82.1
NE	8.4	1.2	3.3	.0	.0	.0	.0	12.9	1.5	.0	11.0	.5	.0		.0	74.2
E	11.5	.0	4.7	.0	.0	.0	.0	16.3	1.5	.0	18.3	.6	.6		.0	62.8
SE	15.0	.8	3.4	.0	.0	.0	.0	18.4	3.4	.0	28.1	.2	1.1		.0	48.8
S	8.3	1.1	2.5	.0	.0	.0	.0	11.9	2.7	.7	28.5	2.0	1.2		.0	52.9
SW	1.4	.6	2.5	.0	.0	.0	.0	4.6	.7	.2	20.9	.9	.8		.2	71.7
W	1.2	1.9	1.3	.0	.0	.0	.0	4.4	2.6	.0	9.6	.2	1.0		.0	82.3
NW	3.2	3.1	2.0	.0	.0	.0	.0	8.2	2.1	.0	7.3	.1	.0		.0	82.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	2.3	.0	.0	.0	.0	.0	.0	2.3	.0	.0	20.9	7.0	4.7		.0	65.1
TOT PCT	4.9	1.1	2.7	.0	.0	.0	.0	8.6	1.7	.1	16.3	.8	.8		*	71.6
TOT OBS:	2177															

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	4.1	1.0	2.9	.0	.0	.0	.0	8.1	.9	.2	16.3	.9	.5		.0	73.2
06&09	5.3	1.9	3.5	.0	.0	.0	.0	10.4	3.4	.4	13.5	.5	.9		.2	70.8
12&15	4.9	.9	2.4	.0	.0	.0	.0	8.2	1.6	.0	20.1	1.3	.4		.0	68.5
18&21	5.0	.7	1.7	.0	.0	.0	.0	7.5	1.1	.0	16.0	.6	2.1		.0	72.8
TOT PCT	4.8	1.2	2.6	.0	.0	.0	.0	8.5	1.7	.1	16.5	.8	.9		*	71.3
TOT OBS:	2236															

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	3.6	5.4	2.0	.2	.0		11.7	14.9	10.9	10.6	13.8	18.4	11.1	12.5	10.5	7.4
NE	.2	2.7	3.3	.8	*	.0		7.0	13.2	10.0	5.6	6.4	5.6	5.5	3.6	8.2	7.4
E	.4	2.5	2.3	.5	.0	.0		5.7	12.1	6.2	3.3	6.1	4.0	5.4	6.8	5.7	6.3
SE	.4	2.3	2.9	.5	.1	.0		6.1	12.7	6.5	5.7	5.0	6.8	6.5	6.6	6.7	4.2
S	.5	4.5	6.3	2.0	.1	.1		13.5	14.1	13.2	12.9	12.8	13.1	13.7	13.8	14.8	8.8
SW	.7	7.5	12.9	3.5	.5	.1		25.2	14.7	27.4	25.0	22.3	21.5	23.6	26.6	26.7	32.7
W	.4	5.6	8.6	3.0	.4	*		18.1	13.1	16.5	22.4	19.8	17.4	18.8	17.2	16.9	16.5
NW	.4	3.2	4.8	1.7	.5	.0		10.7	13.6	8.0	13.2	11.5	12.1	12.6	11.6	9.0	13.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0	1.3	1.1	2.4	1.0	2.9	1.4	1.5	2.8
TOT OBS	152	898	1308	395	53	5	2811		14.2	553	174	553	99	552	220	589	71
TOT PCT	5.4	31.9	46.5	14.1	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	1.8	5.6	3.2	1.1	*		11.7	14.9	10.8	14.5	11.5	10.2
NE	1.3	3.6	1.8	.3	.0		7.0	13.2	8.9	6.3	5.0	8.1
E	1.4	2.8	1.4	.1	.0		5.7	12.1	5.5	5.8	5.8	5.8
SE	1.2	3.1	1.7	.2	.0		6.1	12.7	6.3	5.3	6.5	6.4
S	2.0	7.0	3.7	.7	.1		13.5	14.1	13.1	12.8	13.7	14.1
SW	3.6	12.3	7.9	1.3	.2		25.2	14.7	26.8	22.2	24.4	27.3
W	2.3	8.8	5.7	1.3	.1		18.1	15.1	18.0	19.4	18.3	16.8
NW	1.6	4.7	3.1	1.3	*		10.7	15.6	9.3	11.6	12.3	9.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.9						1.9	.0	1.2	2.1	2.5	1.7
TOT OBS	481	1345	803	172	10	2811		14.2	727	692	772	660
TOT PCT	17.1	47.8	28.6	6.1	.4		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1930-1970
(OVER-ALL) 1869-1970

AREA 0004 SE NEWFOUNDLAND COAST
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS) CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.2	4.0	34.8	46.4	11.4	2.1	.1	13.7	100.0	727
06&09	2.1	2.9	30.5	48.3	14.3	1.7	.2	14.4	100.0	692
12&15	2.5	3.6	30.7	47.7	13.9	1.6	.1	14.1	100.0	772
18&21	1.7	3.5	31.7	43.6	17.0	2.3	.3	14.6	100.0	660
TOT	53	99	898	1308	395	53	5	14.2		2811
PCT	1.9	3.5	31.9	46.5	14.1	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	2.4	1.2	3.5	4.9		5.6
NE	1.8	.9	1.3	4.0		5.6
E	.9	.5	.8	3.8		6.3
SE	.7	.3	1.1	3.7		6.5
S	2.2	.7	2.0	8.2		6.3
SW	5.8	2.4	4.6	11.0		5.4
W	7.3	2.3	4.2	4.9		4.2
NW	3.3	1.1	2.7	3.4		4.8
VAR	.0	.0	.0	.0		.0
CALM	.8	.1	.4	.6		4.4
TOT OBS	429	163	352	757	1701	5.4
TOT PCT	25.2	9.6	20.7	44.5	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	.6	.1	.5	1.2	2.9	1.9	.2	.1	.1	.1	4.4	
NE	.8	.0	.3	1.3	1.3	.7	.2	.2	.1	.1	3.2	
E	.8	.1	.4	.7	1.0	.9	.2	.1	.0	*	1.9	
SE	1.0	.0	.4	.7	1.0	.7	.1	.1	.1	.1	1.9	
S	3.0	.1	.6	1.3	1.6	1.0	.5	*	.4	.4	4.2	
SW	3.6	.1	.7	1.9	3.2	1.3	.8	.3	.4	.4	11.1	
W	1.2	.1	.1	1.0	2.6	1.1	.4	.2	.2	.4	11.6	
NW	.3	.1	.2	.9	1.7	1.1	.1	.4	.2	.1	5.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.1	.2	.1	.0	.0	.1	.0	1.2	
TOT OBS	197	9	55	152	264	150	44	23	27	27	755	1701
TOT PCT	11.6	.4	3.2	8.9	15.5	8.8	2.6	1.4	1.6	1.6	44.4	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	2.4	3.0	3.1	3.1	3.2	3.2	3.2	3.2
* OR >5000	3.3	4.3	4.4	4.4	4.5	4.5	4.5	4.5
* OR >3500	4.7	6.7	7.1	7.1	7.2	7.2	7.2	7.2
* OR >2000	9.9	14.5	15.5	15.6	15.8	15.8	15.9	15.9
* OR >1000	18.0	27.6	30.1	30.8	31.0	31.0	31.1	31.1
* OR >600	22.1	34.2	38.1	39.4	39.7	39.9	40.1	40.2
* OR >300	22.4	35.3	40.4	42.2	42.7	43.0	43.2	43.3
* OR >150	22.4	35.5	40.6	42.5	43.1	43.4	43.6	43.7
* OR > 0	22.5	35.9	41.5	44.5	45.9	47.9	53.2	55.0
TOTAL	386	616	712	764	787	822	912	943

TOTAL NUMBER OF OBS: 1715 PCT FREQ NH <5/8: 45.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
18.0	9.1	7.5	5.6	3.8	4.1	6.6	5.7	29.1	10.4	1809

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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	*	*	.1	.3	.2	.1	*	.0	*	.7	
<1/2	NO PCP	.2	.4	.6	.8	2.8	3.1	1.1	.4	.0	.2	9.6	
	TOT %	.2	.4	.7	.9	3.1	3.3	1.2	.5	.0	.2	10.4	
	PCP	*	.0	*	.1	.2	.1	.1	*	.0	.0	.6	
1/2<1	NO PCP	.3	.1	.3	.4	.3	.4	.2	*	.0	.1	2.3	
	TOT %	.3	.1	.3	.5	.5	.7	.3	.1	.0	.1	2.9	
	PCP	.1	.4	.2	.1	.2	*	*	.1	.0	.0	1.1	
1<2	NO PCP	.2	.1	.1	.2	.4	.6	.1	.1	.0	.0	1.8	
	TOT %	.3	.5	.3	.3	.5	.6	.2	.2	.0	.0	2.9	
	PCP	.3	.2	.4	.3	.4	.2	.1	.1	.0	.0	1.9	
2<5	NO PCP	.5	.2	.1	.4	.4	1.1	.6	.4	.0	.3	3.9	
	TOT %	.8	.4	.4	.7	.8	1.4	.7	.5	.0	.3	5.8	
	PCP	.4	.3	.3	.5	.5	.4	.3	.4	.0	.0	3.4	
5<10	NO PCP	2.8	1.5	1.2	1.1	3.3	6.6	4.2	2.4	.0	.3	23.5	
	TOT %	3.4	1.8	1.6	1.6	3.8	7.1	4.5	2.8	.0	.3	26.9	
	PCP	.1	.1	.1	.1	.1	.2	.2	.1	.0	.0	.9	
10+	NO PCP	7.0	4.9	2.7	2.0	4.4	11.2	11.6	6.0	.0	1.0	50.3	
	TOT %	7.1	4.4	2.7	2.1	4.5	11.4	11.8	6.2	.0	1.0	51.2	
	TOT OBS												2162
	TOT PCT	12.0	7.6	6.0	6.0	13.2	24.9	18.6	10.2	.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
	0-3	.1	*	.2	*	.1	.2	*	.1	.0	.2	.8	
<1/2	4-10	.1	.2	.4	.6	1.0	1.1	.6	.2	.0		4.0	
	11-21	.0	.1	*	.3	1.5	1.6	.6	.2	.0		4.3	
	22+	.0	.0	.0	.1	.5	.6	.1	*	.0		1.3	
	TOT %	.2	.3	.6	.9	3.1	3.4	1.1	.5	.0	.2	10.4	
	0-3	.0	*	.0	.1	.0	.0	.0	.0	.0	.1	.3	
1/2<1	4-10	.1	.0	.1	*	.2	.3	.1	*	.0		.8	
	11-21	.2	.1	.1	.2	.2	.3	.1	*	.0		1.3	
	22+	.0	.0	*	.0	.1	.1	*	.0	.0		.2	
	TOT %	.3	.1	.3	.4	.5	.7	.3	.1	.0	.1	2.6	
	0-3	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.1	
1<2	4-10	.1	.1	*	.0	.1	.2	*	.1	.0		.6	
	11-21	.1	.2	.2	.3	.3	.2	.1	*	.0		1.3	
	22+	*	.2	*	.1	.1	.2	.0	*	.0		.6	
	TOT %	.2	.4	.3	.3	.5	.6	.2	.2	.0	.0	2.7	
	0-3	.0	.0	.0	*	*	*	.0	.0	.0	.2	.3	
2<5	4-10	.3	.1	.1	.1	.2	.4	.2	.1	.0		1.5	
	11-21	.3	.2	.3	.3	.5	.8	.4	.1	.0		2.9	
	22+	.2	.1	.1	.3	.3	.2	.1	.2	.0		1.5	
	TOT %	.7	.4	.5	.7	1.0	1.4	.7	.4	.0	.2	6.2	
	0-3	.2	*	.1	.0	.1	*	.1	.1	.0	.3	.8	
5<10	4-10	.8	.6	.6	.6	1.1	1.6	1.4	.5	.0		7.2	
	11-21	1.6	.8	.7	1.0	2.0	3.7	1.7	1.2	.0		12.5	
	22+	.7	.3	.2	.1	.7	1.4	1.2	.9	.0		5.4	
	TOT %	3.2	1.7	1.5	1.7	3.8	6.7	4.3	2.7	.0	.3	25.9	
	0-3	.3	.1	.2	.2	.3	.4	.1	.3	.0	1.0	2.8	
10+	4-10	2.3	1.9	1.2	1.1	1.8	3.3	3.1	2.2	.0		17.0	
	11-21	3.5	2.0	1.2	1.0	2.1	6.3	5.9	3.4	.0		25.6	
	22+	1.2	.2	.2	*	.5	1.7	2.1	.8	.0		6.7	
	TOT %	7.3	4.1	2.8	2.3	4.6	12.1	11.2	6.6	.0	1.0	52.1	
	TOT OBS												2478
	TOT PCT	11.9	7.1	5.9	6.4	13.5	24.9	17.9	10.5	.0	1.9	100.0	

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(OVER-ALL) 1880-1970

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NM >4/8) AND OCCURRENCE OF NM <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	NM <5/8 ANY HGT	TOTAL OBS
00E03	11.3	.5	2.5	8.8	13.8	7.7	2.0	1.1	1.4	.7	49.7	50.3	443
06E09	13.1	.4	2.0	8.7	15.4	8.9	2.4	.4	1.3	1.6	52.3	47.7	449
12E15	12.6	.2	3.9	7.5	10.7	10.4	3.6	1.9	1.9	1.9	60.6	39.4	414
18E21	8.7	.4	4.2	10.7	14.9	9.8	2.2	1.8	1.6	2.2	56.2	43.8	490
TOT	200	7	55	157	266	191	45	23	27	28	959	797	1796
PCT	11.4	.4	3.1	8.9	15.1	8.8	2.8	1.3	1.5	1.6	54.8	49.4	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
00E03	10.2	2.9	3.7	4.9	26.9	51.8	647
06E09	9.8	1.9	2.9	5.8	24.6	55.5	618
12E15	13.1	3.2	2.1	7.1	26.8	47.8	665
18E21	9.4	2.8	2.6	7.1	24.9	53.2	807
TOT	267	69	69	198	655	1319	2537
PCT	10.5	2.7	2.7	8.2	25.8	52.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <3	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	11.5	14.5	26.1	24.2	49.7	433
06E09	13.0	18.7	27.6	26.5	45.9	438
12E15	12.3	17.4	30.2	31.2	38.6	407
18E21	8.7	14.6	28.6	28.6	42.8	437
TOT	195	271	482	473	760	1715
PCT	11.4	15.8	28.1	27.6	44.3	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
65/69	.0	.0	.1	.0	.1	.1	.2	.2	10	.7
60/64	.0	.0	.0	.1	.8	1.1	2.2	4.4	130	8.6
55/59	.0	.0	.1	.3	1.9	9.8	13.3	17.5	579	38.3
50/54	.0	.1	.0	.3	3.2	6.6	14.9	15.0	606	40.1
45/49	.0	.0	.1	.1	1.0	2.7	3.8	3.6	170	11.2
40/44	.0	.0	.0	.0	.2	.3	.2	.3	16	1.1
35/39	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	1	4	10	100	291	524	622	1512	100.0
PCT	.0	.1	.3	.7	6.6	18.6	34.7	41.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.0	.0	.4	.1	.1	.0	.0
.2	.1	.4	.7	2.3	3.0	1.7	.1	.0	.1
2.1	2.1	2.1	2.2	6.2	12.1	8.5	2.3	.0	.7
6.2	3.4	2.8	2.8	4.6	7.7	7.2	4.7	.0	.7
3.4	2.8	.8	.3	.3	.6	.9	2.0	.0	.2
.4	*	.0	.0	.0	.2	.1	.2	.0	.1
.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
12.3	8.4	6.2	6.0	13.3	24.0	18.6	9.3	.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
00E03	70	69	60	54	47	45	40	54.0	734
06E09	69	62	60	53	46	43	39	53.1	662
12E15	70	69	62	55	47	44	39	55.1	777
18E21	72	67	64	56	48	45	39	56.0	668
TOT	72	69	62	55	47	44	39	54.6	2841

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
00E03	.0	.5	4.7	14.0	37.0	43.8	87	422
06E09	.0	1.0	6.1	15.7	35.4	41.8	86	407
12E15	.0	1.1	6.7	14.6	31.3	46.4	87	371
18E21	.0	1.4	8.3	23.1	33.6	33.6	84	360
TOT	0	15	100	240	537	648	86	1960

PERIOD: (PRIMARY) 1930-1970
(OVER-ALL) 1869-1970

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.4W

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	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.1	.0	.1	.0	2	.0	.1
11/13	.0	.0	.0	.0	.1	.2	.4	.2	.1	17	.3	.6
9/10	.0	.0	.0	.2	.2	.6	.3	.1	.0	25	.4	.9
7/8	.0	.0	.0	.2	.8	1.6	.8	.1	.1	69	.9	2.7
6	.0	.0	.0	.3	.5	1.7	.5	.1	.0	60	.9	2.2
5	.0	.0	.1	.6	1.4	1.2	.5	.1	.0	74	.6	3.2
4	.0	.0	.1	.9	2.0	2.4	.8	.1	.0	120	1.4	4.9
3	.0	.0	.1	.6	4.6	3.9	.7	.0	.0	177	1.9	7.4
2	.0	.1	.4	2.2	4.2	3.9	.8	.0	.0	221	3.0	8.6
1	.0	.0	.4	2.0	4.3	3.0	.9	.0	.0	204	1.9	8.8
0	.0	.1	.6	3.3	5.1	3.1	.3	.0	.0	238	2.2	10.4
-1	.0	.0	.7	3.3	4.1	1.6	.2	.0	.0	188	1.3	8.5
-2	.0	.0	.8	2.7	2.9	1.0	.1	.1	.0	143	.6	6.9
-3	.0	.1	.9	2.4	2.2	.4	.0	.0	.0	116	.4	5
-4	.0	.0	.8	2.6	.9	.2	.0	.0	.0	86	.3	4.2
-5	.0	.1	.8	1.0	1.0	.1	.0	.0	.0	58	.2	2.8
-6	.0	.2	.8	1.2	.5	.1	.0	.0	.0	52	.0	2.7
-7/-8	.1	.2	.5	.6	.6	.1	.0	.0	.0	39	.1	1.9
-9/-10	.0	.1	.4	.2	.0	.0	.0	.0	.0	13	.0	.7
-11/-13	.0	.1	.1	.2	.1	.1	.0	.0	.0	9	.1	.4
-17/-18	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	16	144	466	682	470	117	14	2	1912	316	1596
PCT	.1	.8	7.5	24.4	35.7	24.6	6.1	.7	.1	100.0	16.5	83.5

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	.3	.2	.0	.0	.0	.8
1-2	.0	1.1	.7	.0	.0	.0	1.8
3-4	.0	.8	2.3	.0	.0	.0	3.0
5-6	.0	.6	2.2	.6	.0	.0	3.3
7	.0	.1	.8	.5	.0	.0	1.4
8-9	.0	.0	.5	.2	.1	.0	.8
10-11	.0	.1	.3	.3	.1	.0	.9
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.1	.0	.1	.0	.2
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	3.1	7.3	1.8	.3	.0	12.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	•	.8	.1	.0	.0	.0	.9
1-2	.1	1.9	.4	.0	.0	.0	2.5
3-4	.0	.3	1.5	.0	.0	.0	1.8
5-6	.0	.5	1.8	.1	.0	.0	2.4
7	.0	.0	.7	.5	.0	.0	1.2
8-9	.0	.0	.3	.7	.0	.0	1.0
10-11	.0	.0	.1	.1	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.5	4.8	1.6	.0	.0	10.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.3	.0	.0	.0	.0	.8
1-2	.0	1.4	.3	.0	.0	.0	1.7
3-4	.0	.4	.8	.0	.0	.0	1.2
5-6	.0	.1	.8	.3	.0	.0	1.2
7	.0	.0	.4	.1	.0	.0	.5
8-9	.0	.0	.1	.1	.0	.0	.3
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	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	2.3	2.7	.5	.0	.0	6.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	.3	.0	.0	.0	1.6
1-2	.1	1.1	.1	.0	.0	.0	1.4
3-4	•	.3	1.6	.1	.0	.0	2.1
5-6	.0	.0	1.5	.1	.0	.0	1.7
7	.0	.0	.7	.2	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0
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	.4	2.4	4.2	.6	.0	.0	7.6

PERIOD: (OVER-ALL) 1963-1970 SEPTEMBER AREA 0004 SE NEWFOUNDLAND COAST

TABLE 18 (CONT) 46.9N 51.4W

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	.1	.0	.0	.0	.3
1-2	.0	2.1	.6	.0	.0	.0	2.7
3-4	.1	1.3	2.9	.3	.0	.0	4.7
5-6	.0	.2	.9	.4	.0	.0	1.6
7	.0	.0	.6	1.5	.0	.0	2.0
8-9	.0	.0	.3	.2	.0	.0	.5
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	.2	3.6	5.5	2.8	.0	.0	12.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.1	*	.0	.0	.0	1.3
1-2	.0	1.9	1.3	.0	.0	.0	3.2
3-4	.0	1.8	3.2	.3	.0	.0	5.3
5-6	.0	.2	2.9	1.1	.0	.0	4.3
7	.0	.1	2.2	.6	.0	.0	2.9
8-9	.0	.0	1.0	.8	.1	.0	2.0
10-11	.0	.0	.3	.5	.1	.0	.9
12	.0	.0	.1	.1	.0	.0	.3
13-16	.0	.0	.3	.3	.0	.0	.6
17-19	.0	.0	.1	.1	*	.0	.3
20-22	.0	.0	.0	.0	.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	.1	5.2	11.5	3.9	.3	.1	21.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.1	.0	.0	.0	.6
1-2	.0	1.9	.6	.0	.0	.0	2.5
3-4	.0	1.8	4.5	.2	.0	.0	6.5
5-6	.0	.1	1.2	.2	.0	.0	1.6
7	.0	.0	1.7	1.4	.1	.0	3.3
8-9	.0	.0	.1	.6	.0	.0	.7
10-11	.0	.0	.3	.3	.0	.0	.6
12	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.1	.1	.0	.0	.2
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	4.3	8.6	2.9	.4	.0	16.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.5	.1	.0	.0	.0	.8	
1-2	.3	1.6	.3	.0	.0	.0	2.2	
3-4	.0	.4	2.4	.1	.0	.0	2.9	
5-6	.0	.1	1.0	.0	.0	.0	1.1	
7	.0	.0	1.4	.7	.0	.0	2.1	
8-9	.0	.0	.5	.0	.6	.0	1.1	
10-11	.0	.0	.1	.6	*	.0	.8	
12	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.2	*	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
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	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	2.5	5.9	2.0	.7	.0	11.4	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	4.4	4.7	1.0	.0	.0	.0	10.0	
1-2	1.1	12.9	4.2	.0	.0	.0	18.2	
3-4	.3	7.1	18.9	1.1	.0	.0	27.4	
5-6	.0	1.8	12.3	2.9	.0	.0	17.0	
7	.0	.3	8.3	4.3	.1	.0	14.1	
8-9	.0	.0	2.7	2.7	.8	.0	6.3	
10-11	.0	.1	1.2	2.2	.3	.0	3.8	
12	.0	.0	.1	.8	.1	.0	1.1	
13-16	.0	.0	.5	.5	.1	.0	1.2	
17-19	.0	.0	.4	.1	.1	.0	.7	
20-22	.0	.0	.0	.1	.0	.1	.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	5.7	26.8	49.8	19.9	1.6	.1	100.0	731

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	1.3	7.9	14.0	7.4	3.3	1.5	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	347	4
6-7	.1	1.0	5.7	8.0	7.2	3.0	2.1	.9	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	427	6
8-9	.0	.3	1.5	2.2	4.0	2.8	1.3	.9	1.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	219	8
10-11	.0	.0	.2	.7	.8	1.0	.8	.5	.3	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	70	9
12-13	.0	.0	.5	.2	.3	.2	.4	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	28	8
>13	.0	.0	.0	.0	.1	.2	.2	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	13	11
INDET	2.4	1.8	4.0	1.8	1.7	1.1	.7	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	214	4
TOTAL	58	168	392	308	264	148	85	41	31	12	6	3	2	0	0	0	0	0	0	1518	5
PCT	3.8	11.1	25.8	20.3	17.4	9.7	5.6	2.7	2.0	.8	.4	.2	.1	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1930-1970
(OVER-ALL) 1873-1970

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.3W

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	6.7	2.2	2.3	.0	.6	.0	.0	11.9	2.2	.0	8.2	.3	.0		.0	77.4
NE	23.1	3.6	4.6	.0	.4	.0	.0	31.7	2.1	.0	11.7	1.3	.8		.0	92.4
E	17.6	3.2	6.4	.0	.0	.0	.0	26.3	2.3	.0	18.3	1.6	.9		.0	90.7
SE	15.3	1.8	6.7	.0	.0	.0	.0	23.7	3.5	.0	16.5	.9	1.7		.0	93.8
S	10.4	1.7	3.4	.0	.0	.0	.0	15.2	4.3	.0	23.2	.9	1.6		.0	94.9
SW	3.1	.9	1.6	.0	.0	.0	.0	5.4	2.5	.0	20.1	.3	.4		.0	71.3
W	2.7	2.3	1.1	.0	.1	.0	.4	6.1	1.8	.6	6.1	.1	2.1		.0	83.4
NW	3.6	3.9	1.3	.0	1.1	.0	.0	9.5	4.4	.3	3.6	.2	.3		.3	81.2
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	99.3	.0	3.6		.0	97.1
TOT PCT	6.9	2.2	2.4	.0	.3	.0	.1	11.6	2.8	.2	13.0	.5	1.1		*	70.9
TOT OBS:	2173															

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	7.9	2.4	3.4	.0	.3	.0	.3	14.1	2.1	.2	12.2	.5	.9		.2	70.0
06&09	8.2	1.9	3.6	.0	.4	.0	.0	13.5	2.7	.6	11.8	.6	.8		.0	70.3
12&15	5.0	2.2	1.4	.0	.2	.0	.0	8.6	2.4	.0	12.4	.0	.7		.0	75.8
18&21	6.9	2.3	2.3	.0	.2	.0	.0	11.7	4.4	.0	14.9	.8	1.9		.0	66.3
TOT PCT	7.0	2.2	2.7	.0	.3	.0	.1	11.9	2.9	.2	12.8	.5	1.0		*	70.7
TOT OBS:	2210															

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	2.6	4.7	2.4	.8	*		10.8	17.6	11.0	12.9	10.3	7.0	10.3	9.6	11.3	16.3
NE	.1	1.8	2.2	1.2	.4	.0		5.7	16.0	6.4	7.3	5.0	6.7	5.4	4.9	5.2	7.1
E	.4	1.5	2.1	.6	.1	.0		4.7	13.3	5.1	4.8	4.0	4.9	4.4	3.2	5.2	7.6
SE	.3	2.4	2.3	1.0	.2	.0		6.2	14.5	8.2	4.7	5.9	6.4	6.2	7.3	4.8	2.6
S	.3	3.6	6.2	2.5	.5	*		13.1	16.1	12.9	11.0	11.6	14.5	13.9	14.6	13.9	12.4
SW	.6	5.3	10.6	3.8	.5	*		20.8	15.6	20.3	21.3	20.8	18.6	18.2	21.5	23.2	25.3
W	.2	4.8	10.5	5.8	1.7	.1		23.1	18.5	22.7	24.3	24.5	18.9	23.1	24.7	22.3	17.9
NW	.2	3.2	7.0	2.9	1.0	.1		14.3	17.7	11.4	12.6	16.5	21.8	16.7	13.4	13.2	10.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0	1.9	1.1	1.5	1.2	1.7	.9	.9	.0
TOT OBS	106	716	1301	972	146	8	2849		16.5	966	177	544	96	587	219	585	85
TOT PCT	3.7	25.1	45.7	20.1	5.1	.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	1.5	4.1	3.5	1.5	.3		10.8	17.6	11.4	9.9	10.1	11.9
NE	.9	2.6	1.4	.6	.1		5.7	16.0	6.7	5.2	5.3	5.4
E	1.1	2.2	1.1	.2	*		4.7	13.3	5.0	4.1	4.1	5.5
SE	1.1	2.9	1.6	.6	.1		6.2	14.5	7.4	6.0	6.5	4.6
S	1.5	6.0	4.2	1.1	.2		13.1	16.1	12.4	12.0	14.1	13.7
SW	2.4	9.6	7.4	1.3	.2		20.8	15.6	20.6	20.5	19.1	23.5
W	1.5	9.2	8.5	3.4	.4		23.1	18.5	23.1	23.7	23.5	21.8
NW	1.2	5.8	5.2	1.9	.2		14.3	17.7	11.7	17.2	15.8	12.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	1.7	1.4	1.5	.7
TOT OBS	361	1211	934	302	41	2849		16.5	743	690	806	670
TOT PCT	12.7	42.5	32.8	10.6	1.4		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	1.7	2.7	27.1	45.8	19.0	3.2	.5	15.8	100.0	743
06&09	1.4	2.1	25.7	45.7	20.5	4.4	.2	16.2	100.0	630
12&15	1.5	2.0	24.2	46.3	20.1	5.8	.1	16.7	100.0	806
18&21	.7	2.7	23.6	44.8	20.9	7.0	.3	17.2	100.0	670
TOT	39	67	716	1301	572	146	8	16.5		2849
PCT	1.4	2.4	25.1	45.7	20.1	5.1	.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	1.5	1.5	3.3	4.4		5.8
NE	.4	.4	1.0	3.8		6.8
E	.4	.1	.8	3.9		7.0
SE	.5	.2	.4	4.3		7.0
S	1.1	1.0	2.1	8.5		6.7
SW	5.6	1.7	4.6	8.6		5.2
W	6.7	3.6	7.2	5.9		4.8
NW	2.9	2.0	4.5	4.9		5.3
VAR	.0	.0	.0	.0		.0
CALM	.4	.1	.2	.7		5.4
TOT OBS	330	180	404	783	1697	5.7
TOT PCT	19.4	10.6	23.8	46.1	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	.8	.1	.4	.9	2.2	2.1	.4	.0	.1	.1	3.7	
NE	.5	.1	.2	1.0	1.3	1.0	.2	.1	.0	*	1.1	
E	.9	.0	.2	.7	1.4	.5	.1	*	.1	.1	1.3	
SE	1.1	.1	.6	.7	.8	.5	.3	.1	.0	.1	1.3	
S	2.7	.2	.5	1.6	2.6	1.0	.5	.3	.2	.3	2.9	
SW	3.2	.1	.5	1.6	2.5	1.8	.4	.1	.3	.3	9.7	
W	1.2	.2	.3	1.1	3.5	3.7	1.0	.1	.4	.4	12.5	
NW	.3	.0	.4	1.2	3.7	2.2	.3	.2	.1	.1	5.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.0	.0	.0	.2	.1	.1	.1	.0	.0	.4	
TOT OBS	188	14	49	149	369	220	54	16	18	22	658	1697
TOT PCT	11.1	.8	2.9	8.8	18.2	13.0	3.2	.9	1.1	1.3	38.8	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	1.4	2.2	2.3	2.3	2.3	2.3	2.3	2.3
* OR >5000	1.8	3.1	3.2	3.2	3.2	3.2	3.2	3.2
* OR >3500	3.9	6.1	6.3	6.3	6.3	6.3	6.3	6.3
* OR >2000	10.7	18.3	19.0	19.1	19.3	19.3	19.4	19.4
* OR >1000	20.8	35.0	36.8	37.0	37.4	37.6	37.7	37.7
* OR >600	24.5	41.8	44.7	45.6	46.2	46.5	46.7	46.7
* OR >300	24.9	43.1	46.7	48.0	49.0	49.4	49.6	49.6
* OR >150	25.2	43.6	47.3	48.7	49.7	50.1	50.4	50.4
* OR > 0	25.2	44.3	49.2	51.6	53.8	56.2	60.6	61.4
TOTAL	431	757	840	881	919	968	1035	1049

TOTAL NUMBER OF OBS: 1708 PCT FREQ NH <5/8: 38.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
19.8	5.9	7.2	6.0	5.0	4.7	9.5	7.6	29.8	10.5	1811

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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	*	*	.2	.1	.1	.0	*	.0	.0	.5	
<1/2	NO PCP	.5	.3	.4	.6	1.9	2.4	.8	.3	.0	.3	7.6	
	TOT %	.9	.4	.5	.8	2.0	2.4	.8	.3	.0	.3	8.0	
	PCP	.1	.2	.1	.1	.2	.2	.1	*	.0	.0	1.1	
1/2<1	NO PCP	.0	.1	.1	.3	.4	.6	.2	.1	.0	.1	1.9	
	TOT %	.1	.3	.2	.4	.6	.8	.3	.2	.0	.1	3.0	
	PCP	.2	.3	.1	.2	.1	.1	.0	*	.0	.0	1.1	
1<2	NO PCP	.1	.1	.1	.2	.3	.3	.2	.0	.0	*	1.3	
	TOT %	.3	.4	.2	.4	.4	.9	.2	*	.0	*	2.3	
	PCP	.1	.3	.2	.4	.6	.3	.1	.1	.0	.0	2.1	
2<5	NO PCP	.2	.2	.4	.3	.7	.6	.4	.3	.0	*	3.2	
	TOT %	.3	.5	.6	.8	1.3	.9	.6	.4	.0	*	5.3	
	PCP	.6	.6	.7	.6	.8	.4	.8	.9	.0	.0	5.4	
5<10	NO PCP	3.3	1.3	1.0	1.5	3.2	5.6	6.8	4.0	.0	.3	26.9	
	TOT %	4.0	1.9	1.7	2.1	4.0	6.0	7.6	4.9	.0	.3	32.4	
	PCP	.3	.3	.2	*	.0	.1	.5	.3	.0	.0	1.7	
10+	NO PCP	5.5	1.8	1.6	1.9	3.9	10.0	14.0	8.2	.0	.5	47.3	
	TOT %	5.8	2.1	1.9	1.9	3.9	10.1	14.4	8.5	.0	.5	49.0	
	TOT OBS												2197
	TOT PCT	10.9	5.5	5.1	6.2	12.3	20.5	23.9	14.3	.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
	0-3	.0	.0	*	*	*	.1	.0	*	.0	.3	.6	
<1/2	4-10	.2	.2	.3	.3	.5	.4	.2	.2	.0		2.4	
	11-21	.2	.1	.1	.3	1.4	1.5	.4	.0	.0		4.0	
	22+	.0	.0	*	.1	.1	.4	.1	.0	.0		.8	
	TOT %	.4	.3	.4	.7	2.1	2.3	.8	.3	.0	.3	7.7	
	0-3	.0	.0	*	*	.0	.0	.0	*	.0	.2	.3	
1/2<1	4-10	.0	.1	*	.1	.1	.2	.0	.0	.0		.5	
	11-21	.0	.1	.1	.1	.2	.5	.2	.1	.0		1.2	
	22+	.1	.1	*	.1	.3	.1	.1	.0	.0		.8	
	TOT %	.1	.3	.2	.4	.6	.7	.3	.2	.0	.2	2.9	
	0-3	.0	.0	.0	*	.0	*	.0	.0	.0	*	.1	
1<2	4-10	.1	*	.0	.1	*	.1	.1	.0	.0		.4	
	11-21	.1	.1	.1	.1	.2	.2	.1	.0	.0		.9	
	22+	.1	.3	.1	.1	.2	*	.1	.1	.0		1.1	
	TOT %	.2	.4	.2	.4	.5	.4	.3	.1	.0	*	2.5	
	0-3	.0	.0	.1	*	.0	*	.0	.0	.0	*	.2	
2<5	4-10	*	*	.1	.2	.1	.2	.1	.1	.0		.9	
	11-21	.1	.2	.2	.4	.7	.4	.2	.2	.0		2.4	
	22+	.2	.3	.2	.2	.5	.2	.2	.1	.0		1.9	
	TOT %	.4	.5	.6	.7	1.3	.9	.5	.4	.0	*	5.3	
	0-3	*	*	.0	*	.0	.1	*	.0	.0	.2	.4	
5<10	4-10	.5	.4	.5	.6	.9	1.6	1.1	.8	.0		6.4	
	11-21	1.4	.7	.9	.8	1.8	2.6	3.2	1.8	.0		13.2	
	22+	1.6	.6	.1	.5	1.4	1.7	2.5	1.9	.0		10.3	
	TOT %	3.5	1.7	1.6	2.0	4.0	5.9	6.9	4.4	.0	.2	30.3	
	0-3	.2	*	.1	.1	.2	.3	*	.1	.0	.7	1.7	
10+	4-10	1.7	.8	.5	.8	1.9	2.5	3.6	2.1	.0		13.9	
	11-21	2.9	1.1	1.0	.8	1.7	5.2	6.5	5.0	.0		24.1	
	22+	1.4	.3	.2	.2	.4	2.1	4.9	2.1	.0		11.6	
	TOT %	6.2	2.2	1.8	1.9	4.2	10.0	15.0	9.3	.0	.7	51.3	
	TOT OBS												2924
	TOT PCT	10.8	5.6	4.8	6.2	12.6	20.2	23.8	14.6	.0	1.4	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	12.8	1.2	3.3	7.6	15.2	11.6	4.8	.5	1.0	1.7	59.6	40.4	421
06&09	11.6	.2	2.8	7.2	18.1	13.5	1.6	1.2	.7	1.4	58.4	41.6	430
12&15	9.2	.2	2.6	6.8	22.4	14.5	3.9	.9	1.1	1.3	62.9	37.1	456
18&21	11.6	1.6	2.7	13.4	15.9	11.3	2.0	1.1	1.4	.7	61.7	38.3	441
TOT	197	14	50	153	314	223	54	16	18	22	1061	687	1748
PCT	11.3	.8	2.9	8.8	18.0	12.8	3.1	.9	1.0	1.3	60.7	39.3	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	6.8	3.2	3.0	5.2	32.9	48.9	660
06&09	7.8	2.4	2.0	6.3	30.7	50.8	590
12&15	7.5	3.1	2.0	4.8	28.3	54.1	702
18&21	8.4	2.5	3.1	5.7	29.3	51.0	610
TOT	195	72	69	140	776	1314	2562
PCT	7.6	2.8	2.5	5.5	30.3	51.3	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 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	12.7	18.3	27.8	33.9	38.3	410
06&09	11.9	16.2	25.9	34.4	39.7	421
12&15	8.6	13.1	23.9	40.5	35.6	444
18&21	11.1	16.6	31.6	30.7	37.6	433
TOT	188	273	466	597	645	1708
PCT	11.0	16.0	27.3	35.0	37.8	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
60/64	.0	.0	.0	.0	.1	.0	.1	.4	9	.6
55/59	.0	.0	.0	.1	.5	.7	2.9	3.6	117	7.6
50/54	.0	.0	.1	.1	1.8	2.7	10.8	14.1	453	29.6
45/49	.0	.0	.1	.6	3.1	8.9	11.2	15.3	601	39.3
40/44	.0	.0	.0	.3	3.5	4.8	4.8	5.4	287	18.7
35/39	.0	.0	.0	.3	.4	.8	1.4	1.0	59	3.9
30/34	.0	.0	.0	.0	.0	.2	.0	.1	5	.3
TOTAL	0	0	3	22	143	276	477	610	1531	100.0
PCT	.0	.0	.2	1.4	9.3	18.0	31.2	39.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	.3	.2	*	.0	.0	.0
.2	.1	.1	.6	1.9	2.6	2.0	.1	.0	.0
.8	.6	1.0	2.3	4.9	9.8	7.5	2.4	.0	.3
4.9	2.9	2.8	2.8	4.2	7.2	9.5	4.6	.0	.5
4.4	2.0	.8	.5	.6	1.2	4.2	4.8	.0	.2
1.0	.2	.2	.0	.1	.2	.5	1.4	.0	.1
*	.0	.0	.0	.0	.0	.1	.2	.0	.0
11.3	5.8	5.0	6.3	12.0	21.2	23.7	13.5	.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	62	59	56	48	40	37	35	47.8	742
06&09	63	59	55	47	40	36	34	47.4	630
12&15	65	59	57	48	40	35	32	48.3	806
18&21	65	60	57	49	41	38	34	48.9	663
TOT	65	59	56	48	40	37	32	48.1	2841

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.0	9.2	17.9	31.4	40.6	85	414
06&09	.0	1.0	8.1	18.0	29.9	42.9	86	394
12&15	.0	2.8	10.3	19.8	29.3	37.6	84	399
18&21	.0	2.0	10.1	16.8	33.3	37.8	85	357
TOT	0	26	148	284	484	622	85	1564

PERIOD: (PRIMARY) 1930-1970
(OVER-ALL) 1873-1970

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

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	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	2	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	4	.1	.2
11/13	.0	.0	.0	.0	.1	.0	.1	.2	.1	.0	8	.0	.4
9/10	.0	.0	.0	.1	.2	.5	.3	.2	.1	.0	25	.1	1.2
7/8	.0	.0	.0	.0	.4	.8	.6	.7	.1	.1	92	.7	2.0
6	.0	.0	.0	.1	.5	1.4	.7	.2	.0	.0	56	.7	2.2
5	.0	.0	.0	.2	.9	2.5	1.1	.4	.0	.0	99	1.4	3.7
4	.0	.0	.0	.2	1.4	2.4	1.4	.2	.0	.0	109	1.0	4.6
3	.0	.0	.0	.2	2.1	2.8	1.7	.5	.1	.0	163	2.0	6.3
2	.0	.0	.0	1.1	3.2	3.2	1.5	.5	.1	.0	187	1.9	7.6
1	.0	.0	.1	1.0	4.0	4.4	1.2	.2	.0	.0	214	1.7	9.3
0	.0	.0	.1	1.6	3.3	2.6	1.2	.1	.1	.0	175	1.0	7.9
-1	.0	.0	.3	1.9	3.0	2.3	.5	.2	.0	.0	160	.8	7.4
-2	.0	.0	.4	1.6	3.3	2.3	.4	.1	.0	.0	157	.9	7.2
-3	.0	.0	.8	1.6	2.1	1.0	.3	.0	.0	.0	114	.5	5.3
-4	.0	.0	.6	1.5	1.9	.9	.4	.1	.0	.0	106	.4	5.1
-5	.0	.2	.3	1.8	1.3	.7	.1	.1	.0	.0	87	.2	4.3
-6	.0	.3	1.1	1.0	.9	.4	.1	.0	.0	.0	72	.1	3.6
-7/-8	.0	.2	1.1	1.5	1.1	.5	.1	.0	.0	.0	87	.1	4.4
-9/-10	.0	.2	.3	1.0	.3	.2	.0	.0	.0	.0	39	.0	2.0
-11/-13	.1	.2	.3	.4	.4	.2	.0	.0	.0	.0	28	.1	1.4
-14/-16	.1	.0	.2	.1	.1	.0	.0	.0	.0	.0	7	.1	.3
-17/-19	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	2	20	110	329	617	565	230	72	7	2	1954	264	1690
PCT	.1	1.0	5.6	16.8	31.6	28.9	11.8	3.7	.4	.1	100.0	13.5	86.5

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	.6
1-2	.0	.5	.5	.0	.0	.0	1.0
3-4	.0	.3	1.5	.3	.0	.0	2.1
5-6	.1	.0	.8	.2	.1	.0	1.3
7	.0	.0	.6	.4	.0	.0	1.0
8-9	.0	.0	.4	1.0	.2	.0	1.6
10-11	.0	.1	.2	.3	.1	.0	.7
12	.0	.0	.0	.4	.1	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.4	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.1	.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	.2	1.3	4.7	2.5	1.1	.0	9.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.1	.0	.0	.0	.6
1-2	.0	.1	.1	.0	.0	.0	.2
3-4	.0	.2	.3	.3	.0	.0	.8
5-6	*	.1	.2	.0	.0	.0	.4
7	.0	.0	.3	.1	.0	.0	.3
8-9	.0	.0	.1	.3	.0	.0	.5
10-11	.0	.0	*	.3	.0	.0	.3
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	*	.0	*
20-22	.0	.0	.1	.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	*	.9	1.4	1.0	*	.0	3.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.0	.0	.0	.0	.8
1-2	.1	.9	.3	.0	.0	.0	1.4
3-4	.0	.3	1.5	.0	.0	.0	1.8
5-6	.0	.1	1.2	.3	.0	.0	1.6
7	.0	.0	.4	.2	.0	.0	.6
8-9	.0	.0	.0	.1	.0	.0	.1
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	.1	.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	.4	1.9	3.5	.6	.1	.0	6.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	.0	.0	.0	.0	.7
1-2	.1	.7	.4	.0	.0	.0	1.2
3-4	.0	.5	1.1	.0	.0	.0	1.6
5-6	.0	.0	.5	.1	.0	.0	.6
7	.0	.0	.4	.1	.1	.0	.7
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.1	.0	.1	.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	.3	1.8	2.9	.6	.3	.0	5.7

PERIOD: (OVER-ALL) 1963-1970

OCTOBER

TABLE 18 (CONT)

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

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	.6	.2	.0	.0	.0	1.2	.0	.6	.2	.0	.0	.0	.8
1-2	.0	1.9	.4	.0	.0	.0	2.4	.0	1.4	.8	.0	.0	.0	2.3
3-4	.0	1.4	1.8	.4	.0	.0	3.5	.0	1.1	3.9	.3	.0	.0	5.3
5-6	.0	.1	2.3	.9	.0	.0	3.3	.0	.4	3.5	1.0	.1	.0	5.1
7	.0	.1	.8	.7	.0	.0	1.7	.0	.2	2.2	2.0	.0	.0	4.4
8-9	.0	.0	.3	.3	.0	.0	.6	.0	.0	1.4	1.4	.0	.0	2.7
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	1.0	.4	.1	.0	1.6
12	.0	.0	.0	.1	.0	.0	.1	.0	.1	.0	.1	.0	.0	.2
13-16	.0	.0	.0	.2	.6	.0	.8	.0	.0	.0	.2	.4	.0	.5
17-19	.0	.0	.1	.0	.1	.0	.2	.0	.0	.2	.0	*	*	.2
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	*	*	.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	.4	4.2	6.0	2.8	.7	.0	14.2	.0	3.9	13.2	5.5	.6	*	23.2

	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	.5	.0	.0	.0	.0	.5	.3	.3	.1	.0	.0	.0	.7	
1-2	.0	2.2	.6	.0	.0	.0	2.8	.0	.6	1.1	.0	.0	.0	1.8	
3-4	.0	.7	2.5	.4	.0	.0	3.5	.0	1.0	1.6	.2	.0	.0	2.8	
5-6	.0	.5	2.3	.9	.6	.0	4.3	.0	.2	1.3	.4	.0	.0	1.9	
7	.0	.1	2.3	1.5	.3	.0	4.1	.0	.0	1.1	.7	.1	.0	2.0	
8-9	.0	.1	1.2	1.1	.0	.0	2.4	.0	.0	.7	.4	.4	.0	1.6	
10-11	.0	.0	1.1	1.3	.7	.0	3.1	.0	*	.3	.6	.2	.0	1.1	
12	.0	.0	.1	.8	.0	.0	1.0	.0	.0	.0	.3	.2	.0	.4	
13-16	.0	.0	.1	.4	.1	.0	.7	.0	.0	.1	.1	.1	.0	.4	
17-19	.0	.0	.0	.0	.2	.2	.5	.0	.0	.0	.0	.2	.1	.4	
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	10.1	6.4	2.4	.2	23.2	.3	2.2	6.4	2.8	1.3	.1	13.1	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	2.8	3.9	.8	.0	.0	.0	7.5	
1-2	.4	8.3	4.3	.0	.0	.0	13.1	
3-4	.0	5.5	14.0	1.7	.0	.0	21.3	
5-6	.1	1.5	12.1	4.9	.8	.0	18.6	
7	.0	.4	8.1	5.8	.5	.0	14.8	
8-9	.0	.1	4.4	4.6	.7	.0	9.8	
10-11	.0	.1	3.0	3.0	1.3	.0	7.4	
12	.0	.1	.1	1.7	.3	.0	2.3	
13-16	.0	.0	.3	1.2	1.2	.0	2.7	
17-19	.0	.0	.3	.0	1.1	.4	1.7	
20-22	.0	.0	.1	.1	.4	.0	.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	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								743
TOT PCT	3.4	20.1	47.5	22.1	6.6	.4	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	.6	4.6	9.5	6.3	3.9	1.6	.6	.4	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	433	5
6-7	.0	.8	5.0	9.0	9.1	4.2	2.3	2.1	1.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	533	7
8-9	.0	.1	.8	1.8	3.7	3.7	2.1	1.6	1.4	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	246	9
10-11	.0	.1	.2	.6	.9	1.0	1.2	.9	1.4	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	108	11
12-13	.0	.0	.0	.4	.3	.4	.5	.5	.2	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	37	10
>13	.0	.0	.0	.2	.0	.2	.2	.1	.5	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	21	12
INDET	1.3	1.2	2.8	1.8	1.9	1.0	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	169	5
TOTAL	30	107	285	312	306	186	117	87	80	20	11	4	2	0	0	0	0	0	0	1547	7
PCT	1.9	6.9	18.4	20.2	19.8	12.0	7.6	5.6	5.2	1.3	.7	.3	.1	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1932-1970
(OVER-ALL) 1873-1970

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.4W

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	7.4	2.4	5.4	.0	3.2	.0	.0	15.7	3.2	.0	5.8	.0	.0	.0		75.3
NE	8.8	2.6	5.6	.0	3.0	.0	.0	17.2	2.6	.0	6.2	1.2	.0	.0		72.7
E	14.0	1.0	5.2	.0	1.7	.0	.3	21.6	2.9	.0	13.2	3.7	.0	.0		58.6
SE	16.4	2.8	6.2	.0	.2	.0	.2	25.9	3.5	.0	20.8	.8	.5	.0		48.5
S	10.8	4.0	4.5	.0	.3	.0	.0	19.6	3.8	.0	19.4	1.2	.5	.0		55.5
SW	7.2	1.2	1.9	.0	.6	.0	.3	11.1	3.1	.0	14.9	1.7	1.9	.0		67.3
W	3.6	1.9	1.9	.0	1.4	.0	.0	8.6	3.8	.0	2.9	.2	.4	.0		84.1
NW	4.9	1.8	1.3	.0	3.2	.0	.3	11.2	2.3	.3	2.2	.1	.0	.0		84.2
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	11.1	11.1	.0	.0		77.8
TOT PCT	8.3	2.2	3.5	.0	1.6	.0	.1	15.1	3.2	*	10.5	1.0	.5	.0		69.7
TOT OBS:	2156															

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	8.8	2.3	2.6	.0	1.6	.0	.2	15.5	4.4	.2	7.9	.5	.4	.0		71.4
06&09	9.7	3.4	4.3	.0	1.7	.0	.2	17.8	3.6	.0	10.8	1.1	.4	.0		66.4
12&15	7.9	1.5	3.7	.0	1.1	.0	.0	13.4	1.8	.0	11.2	1.1	.7	.0		71.6
18&21	6.6	1.7	3.5	.0	1.8	.0	.2	13.5	3.1	.0	12.5	1.3	.6	.0		69.0
TOT PCT	8.3	2.2	3.5	.0	1.6	.0	.1	15.0	3.2	*	10.6	1.0	.5	.0		69.6
TOT OBS:	2189															

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	2.5	4.3	2.5	.8	.1		10.5	18.0	10.8	7.5	10.4	8.4	9.7	12.3	12.0	10.1
NE	.2	2.5	3.7	1.4	.2	*		8.1	15.6	8.1	7.3	7.1	11.1	7.9	6.4	9.7	6.3
E	.3	2.0	2.9	1.2	.2	.1		6.7	15.3	6.1	5.9	6.2	8.4	7.9	7.2	6.3	8.0
SE	.2	2.8	5.8	2.1	.4	*		9.4	16.3	8.1	6.0	10.3	10.5	8.6	14.2	9.7	9.8
S	.4	4.0	5.8	4.5	.5	.1		15.3	17.5	18.3	16.0	15.5	11.4	14.0	13.3	14.7	16.4
SW	.2	4.5	7.2	3.5	.9	.2		16.5	17.4	17.0	16.3	13.5	15.9	17.1	17.6	17.4	18.8
W	.4	3.0	7.2	4.5	2.0	.2		17.2	20.0	17.3	21.6	19.9	18.6	15.6	14.0	16.3	13.7
NW	.2	3.3	6.8	3.6	1.5	.1		15.6	18.6	13.4	18.8	15.7	15.7	19.1	14.6	13.7	15.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6							.6	.0	.9	.5	1.4	.0	.2	.5	.2	1.2
TOT OBS	81	682	1150	645	181	22	2761		17.6	563	186	510	110	526	206	576	84
TOT PCT	2.9	24.7	41.7	23.4	6.6	.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	1.5	3.8	3.3	1.6	.4		10.5	18.0	10.0	10.0	10.4	11.8
NE	1.2	3.3	2.8	.7	*		8.1	15.6	7.9	7.8	7.5	9.2
E	1.1	2.8	2.3	.4	.1		6.7	15.3	6.0	6.6	7.7	6.5
SE	1.4	3.8	3.0	1.0	.1		9.4	16.3	7.6	10.4	10.1	9.7
S	1.7	5.8	5.7	1.9	.2		15.3	17.5	17.7	14.8	13.8	14.9
SW	1.9	6.9	5.0	2.1	.5		16.5	17.4	16.8	14.0	17.2	17.6
W	1.6	5.8	6.2	3.2	.7		17.2	20.0	18.4	19.6	15.1	16.0
NW	1.6	5.8	5.5	2.6	.4		15.6	18.6	14.8	15.7	17.8	14.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.8						.6	.0	.8	1.1	.3	.3
TOT OBS	339	1049	932	369	72	2761		17.6	749	820	732	660
TOT PCT	12.3	38.0	33.8	13.4	2.6		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1932-1970
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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	2.4	27.8	40.9	22.3	6.[illegible]	.9	17.6	100.0	749
06&09	1.1	1.6	22.3	43.2	24.8	6.0	1.0	18.1	100.0	620
12&15	.3	2.3	24.6	42.3	23.0	6.7	.8	17.6	100.0	732
18&21	.3	2.9	25.9	40.3	23.6	6.5	.5	17.2	100.0	660
TOT	17	64	682	1150	645	181	22	17.6		2761
PCT	.6	2.3	24.7	41.7	23.4	6.6	.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	.7	.7	3.2	5.6		6.6
NE	.9	.6	2.1	4.6		6.5
E	.7	.3	1.2	5.0		6.8
SE	.7	.4	1.0	8.0		7.1
S	1.6	.9	3.3	8.9		6.5
SW	2.4	1.3	4.7	8.3		6.1
W	3.5	2.8	5.6	5.8		5.4
NW	2.0	1.9	4.4	6.6		5.9
VAR	.0	.0	.0	.0		.0
CALM	.2	.1	.1	.1		3.7
TOT OBS	210	147	422	872	1651	6.2
TOT PCT	12.7	8.9	25.6	52.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY [illegible] 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	.8	*	.4	1.2	2.7	2.1	.5	.2	.1	.1	2.1	
NE	.6	*	.3	1.0	1.7	1.7	.5	.1	.2	.1	2.2	
E	.8	.1	.4	.9	1.3	1.2	.4	.2	.1	.2	1.6	
SE	2.1	.1	.5	1.4	1.9	1.4	.7	.1	.2	.1	1.7	
S	2.4	.1	.4	1.7	2.7	1.3	.7	.2	*	.7	4.5	
SW	2.3	.0	.3	1.4	2.6	2.5	.8	.3	.3	.4	5.8	
W	.6	.0	.4	1.6	2.9	3.0	.9	.3	.3	.1	7.8	
NW	.2	.0	.4	1.6	3.9	2.9	.2	.2	*	.1	5.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.0	.0	.1	.0	.0	.1	.0	.2	
TOT OBS	102	6	32	178	325	266	77	26	19	29	511	1651
TOT PCT	9.8	.4	3.1	10.8	19.7	16.1	4.7	1.6	1.2	1.8	31.0	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	1.7	2.5	2.7	2.7	2.7	2.8	2.8	2.8
* OR >5000	2.5	3.9	4.2	4.3	4.3	4.4	4.4	4.4
* OR >3500	5.3	8.1	8.7	8.8	8.9	8.9	8.9	9.0
* OR >2000	15.0	23.3	24.7	24.7	24.8	24.9	25.0	25.0
* OR >1000	26.3	40.6	43.7	44.0	44.1	44.4	44.6	44.6
* OR >600	30.0	48.2	53.2	54.3	54.7	55.2	55.4	55.4
* OR >300	30.6	49.7	55.5	57.0	57.7	58.2	58.5	58.5
* OR >150	30.6	49.8	55.6	57.3	58.0	58.6	58.8	58.9
* OR > 0	30.7	50.3	57.1	59.1	60.5	64.0	68.1	68.8
TOTAL	506	830	941	974	998	1056	1123	1135

TOTAL NUMBER OF OBS: 1649 PCT FREQ NH <5/8: 31.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
8.1	4.8	6.7	4.9	5.8	5.4	9.8	8.3	37.1	9.0	1772

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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	*	.1	.1	.2	.5	.3	.1	*	.0	.0	1.3	
<1/2	NO PCP	.5	.3	.8	1.6	2.2	1.5	.2	.2	.0	.1	7.3	
	TOT %	.6	.3	.9	1.9	2.6	1.8	.2	.2	.0	.1	8.6	
	PCP	.?	.1	.1	.2	.2	.2	.1	.1	.0	.0	1.0	
1/2<1	NO PCP	.0	.1	.2	.2	.3	.9	*	.0	.0	.0	1.2	
	TOT %	.?	.1	.2	.4	.5	.7	.1	.1	.0	.0	2.2	
	PCP	.2	.3	*	.2	.2	.1	.1	.1	.0	.0	1.3	
1<2	NO PCP	.0	.1	.0	.1	.3	.2	.1	*	.0	.0	.8	
	TOT %	.2	.3	*	.3	.5	.3	.2	.2	.0	.0	2.0	
	PCP	.2	.4	.7	.9	.7	.5	.2	.5	.0	.0	4.0	
2<5	NO PCP	.?	.3	.2	.4	.8	.9	.3	.3	.0	.0	3.4	
	TOT %	.4	.8	.9	1.2	1.6	1.3	.5	.8	.0	.0	7.5	
	PCP	.9	.5	.5	.9	1.3	.7	.8	.8	.0	.0	6.4	
5<10	NO PCP	2.9	2.1	1.5	1.9	3.6	4.6	4.3	3.5	.0	.1	24.4	
	TOT %	3.8	2.6	2.0	2.8	4.9	5.9	5.1	4.3	.0	.1	30.8	
	PCP	.1	.2	.1	.1	.3	.1	.3	.2	.0	.0	1.3	
10+	NO PCP	5.0	4.2	2.8	3.0	5.5	7.2	11.2	8.7	.0	.2	47.6	
	TOT %	5.1	4.4	2.9	3.0	5.7	7.3	11.4	8.9	.0	.2	48.9	
	TOT OBS												2150
	TOT PCT	10.2	8.5	6.9	9.6	15.7	16.7	17.6	14.4	.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	.1	*	*	.1	*	.0	.0	*	.0	.1	.5	
<1/2	4-10	.1	.1	.3	.5	.8	.3	.1	*	.0		2.2	
	11-21	.1	.1	.4	.7	1.1	1.1	.1	.1	.0		3.7	
	22+	.1	.1	.1	.4	.7	.3	*	.0	.0		1.8	
	TOT %	.5	.3	.8	1.8	2.6	1.7	.2	.2	.0	.1	8.2	
	0-3	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	4-10	.1	.0	.0	.1	.1	.1	.1	*	.0		.5	
	11-21	.1	.1	.1	.1	.3	.3	*	.0	.0		.9	
	22+	.0	.1	.1	.1	.1	.2	.1	*	.0		.7	
	TOT %	.2	.1	.2	.3	.5	.6	.2	.1	.0	.0	2.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.1	
1<2	4-10	.0	*	.0	.1	.1	*	.1	.1	.0		.4	
	11-21	.1	.1	.0	.1	.2	.3	.1	*	.0		.9	
	22+	.1	.3	*	.2	.3	.1	.1	.2	.0		1.4	
	TOT %	.2	.5	*	.5	.6	.4	.3	.4	.0	*	2.8	
	0-3	.0	.0	*	*	*	.0	.0	.0	.0	.0	.1	
2<5	4-10	*	.1	.1	.2	.3	.3	.1	.1	.0		1.3	
	11-21	*	.3	.2	.6	.5	.5	.2	.3	.0		2.6	
	22+	.3	.3	.4	.5	.9	.5	.2	.5	.0		3.7	
	TOT %	.4	.7	.8	1.2	1.7	1.4	.6	.9	.0	.0	7.6	
	0-3	*	.1	.1	*	*	.1	*	*	.0	.1	.5	
5<10	4-10	.7	.8	.3	.4	1.1	1.3	.8	.5	.0		6.0	
	11-21	1.4	1.1	.9	1.1	1.7	2.6	1.9	1.9	.0		12.6	
	22+	1.4	.3	.6	1.0	1.7	1.5	2.3	1.5	.0		10.4	
	TOT %	3.5	2.3	1.9	2.6	4.6	5.4	5.0	4.0	.0	.1	29.5	
	0-3	.2	.1	.1	.1	.3	.1	.2	.2	.0	.3	1.6	
10+	4-10	1.4	1.5	1.3	1.4	1.8	2.1	1.8	2.5	.0		13.9	
	11-21	2.6	2.2	1.3	1.3	2.3	2.8	4.9	4.4	.0		21.9	
	22+	1.3	.5	.1	.3	1.2	1.9	4.3	2.8	.0		12.4	
	TOT %	5.6	4.2	2.8	3.2	5.7	7.0	11.2	9.8	.0	.3	49.8	
	TOT OBS												2452
	TOT PCT	10.4	8.1	6.6	9.5	15.6	16.5	17.5	15.3	.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	8.5	.5	3.1	12.3	15.9	15.5	3.1	.7	.7	2.7	63.0	37.0	414
06&09	11.1	.2	3.0	10.4	21.5	15.3	6.2	.5	1.7	1.0	71.0	29.0	404
12&15	9.7	.5	2.9	11.2	19.7	18.2	3.9	1.9	1.5	1.2	70.6	29.4	412
18&21	10.1	.2	3.3	9.0	20.2	14.5	5.0	2.9	.7	2.0	67.8	32.2	456
TOT	166	6	52	180	326	267	77	26	19	29	1148	538	1686
PCT	9.8	.4	3.1	10.7	19.3	15.8	4.6	1.5	1.1	1.7	68.1	31.9	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	7.6	2.1	3.2	5.4	31.7	50.0	654
06&09	7.5	1.2	1.9	8.0	29.1	52.2	584
12&15	9.1	2.7	3.1	7.9	30.2	46.9	635
18&21	8.8	2.5	3.1	9.0	26.6	50.0	612
TOT	206	53	71	187	732	1236	2485
PCT	8.3	2.1	2.9	7.5	29.5	49.7	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	8.7	14.9	29.3	35.7	35.0	403
06&09	11.4	15.9	30.6	43.3	26.1	395
12&15	10.1	14.3	29.3	42.1	28.6	406
18&21	9.9	15.1	28.8	41.3	29.9	445
TOT	165	248	486	670	493	1649
PCT	10.0	15.0	29.5	40.6	29.9	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
55/59	.0	.0	.0	.0	.1	.1	.2	.6	15	.9
50/54	.1	.0	.1	.1	.1	.3	2.4	4.5	120	7.5
45/49	.0	.0	.0	.1	.5	3.1	4.8	14.1	380	22.6
40/44	.0	.0	.1	.4	3.0	6.0	10.2	14.9	551	34.6
35/39	.0	.0	.1	1.3	3.9	5.3	8.4	8.4	435	27.3
30/34	.0	.0	.0	.2	.7	1.4	2.1	1.6	97	6.1
25/29	.0	.0	.0	.1	.1	.3	.3	.2	13	.8
20/24	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
TOTAL	1	0	4	35	137	262	453	705	1592	100.0
PCT	.1	.0	.3	2.2	8.3	16.5	28.5	44.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.1	.4	.4	.1	.0	.0	.0
	*	*	.4	1.1	3.7	2.0	.3	.1	.0	.0
	.4	1.1	2.2	3.7	6.1	5.4	2.8	.7	.0	.1
	3.6	3.7	2.8	2.9	4.7	5.3	6.9	4.6	.0	.1
	5.3	3.2	1.8	1.9	1.4	2.2	5.0	6.3	.0	.2
	1.0	.3	.1	.2	.1	.4	2.0	2.0	.0	.0
	.1	.1	.0	.0	.0	.1	.3	.3	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
	10.4	8.4	7.3	9.8	16.4	15.8	17.4	14.1	.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	59	55	50	41	32	25	23	41.5	742
06&09	55	53	50	41	32	27	25	41.2	618
12&15	59	55	51	41	31	26	24	41.2	734
18&21	55	53	51	42	33	28	24	41.8	662
TOT	59	54	50	41	32	27	23	41.4	2756

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	7.5	18.9	28.8	44.1	86	413
06&09	.0	2.3	5.5	17.0	30.5	44.8	86	400
12&15	.3	2.8	7.8	15.2	29.5	44.4	85	396
18&21	.0	4.0	12.6	19.1	24.9	43.5	84	405
TOT	1	39	135	267	459	713	85	1614

PERIOD: (PRIMARY) 1932-1970
(OVER-ALL) 1875-1970

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.4W

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	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.1
11/13	.0	.0	.0	.0	.0	.1	.2	.4	.2	.1	16	.2	.7
9/10	.0	.0	.0	.0	.1	.1	.5	.6	.3	.0	28	.4	1.1
7/8	.0	.0	.0	.0	.1	.4	1.3	1.0	.7	.1	68	.9	2.6
6	.0	.0	.0	.0	.1	.6	1.4	.7	.3	.0	58	1.0	2.0
5	.0	.0	.0	.0	.2	1.3	1.9	.8	.4	.0	88	1.2	3.4
4	.0	.0	.0	.1	.4	1.9	2.1	1.3	.1	.1	114	1.6	4.9
3	.0	.0	.0	.1	1.0	2.5	2.6	.8	.3	.1	141	1.5	5.9
2	.0	.0	.0	.1	1.5	3.2	2.1	.6	.0	.1	145	1.2	6.3
1	.0	.0	.0	.1	2.1	2.9	2.0	.9	.0	.0	156	.7	7.4
0	.0	.0	.0	.4	3.5	3.8	1.8	.4	.0	.0	189	.8	9.0
-1	.0	.0	.0	.6	2.9	2.3	1.3	.2	.0	.0	141	.4	6.9
-2	.0	.0	.0	.8	3.4	2.2	1.0	.1	.0	.0	146	.5	7.0
-3	.0	.1	.2	1.6	3.2	1.7	.6	.1	.0	.1	143	.3	7.1
-4	.0	.0	.4	1.3	3.0	1.4	.3	.0	.0	.0	125	.3	6.2
-5	.0	.1	.4	1.3	2.2	.9	.1	.0	.0	.0	96	.0	5.0
-6	.0	.0	.6	1.5	1.2	.7	.2	.0	.0	.0	79	.1	4.0
-7/-8	.0	.3	.8	1.6	1.9	.5	.1	.0	.0	.0	98	.0	5.1
-9/-10	.1	.1	.3	1.1	1.0	.1	.1	.1	.0	.0	52	.0	2.7
-11/-13	.1	.2	.5	.8	.2	.1	.0	.0	.0	.0	35	.0	1.8
-14/-16	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	8	.0	.4
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
-20/-22	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	18	66	218	539	511	376	1??	42	7	1931	201	1730
PCT	.1	.9	3.4	11.3	27.9	26.5	19.5	7.9	2.2	.4	100.0	10.4	89.6

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	.4	.5	.2	.0	.0	.0	1.0
1-2	.0	.8	.3	.0	.0	.0	1.1
3-4	.0	.5	.7	.2	.0	.0	1.4
5-6	.0	.0	.9	.2	.0	.0	1.2
7	.0	.1	.8	.1	.0	.0	1.1
8-9	.0	.0	.2	.4	.0	.0	.6
10-11	.0	.0	.3	.4	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.1	.0	.1
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	.4	1.9	3.5	1.4	.3	.0	7.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.2	.2	.0	.0	.0	.3
1-2	.0	.8	.5	.0	.0	.0	1.2
3-4	.0	.8	1.4	*	.0	.0	2.2
5-6	.0	*	1.0	*	.2	.0	1.2
7	.0	*	.9	.5	.2	.0	1.6
8-9	.0	.0	.8	1.1	.0	.0	1.9
10-11	.0	.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	*	1.7	4.8	1.7	.3	*	8.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.3	.0	.0	.0	.6
1-2	.0	1.4	.7	.0	.0	.0	2.1
3-4	.2	.3	.5	.0	.0	.0	.9
5-6	.0	.1	1.3	.1	.0	.0	1.6
7	.0	.0	.1	.4	.0	.0	.5
8-9	.0	.0	.3	.2	.0	.0	.4
10-11	.0	.0	.0	.3	.2	.1	.5
12	.0	.0	.0	.2	.2	.0	.3
13-16	.0	.0	.0	.0	.3	.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	.2	2.0	3.3	1.1	.6	.1	7.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	*	.0	.0	.0	.0	.2
1-2	.0	1.5	1.1	.0	.0	.0	2.7
3-4	.0	1.0	2.0	*	.0	.0	3.1
5-6	.0	.4	1.3	.3	.0	.0	2.0
7	.0	.0	.9	1.0	.0	.0	2.0
8-9	.0	.0	.0	.9	.0	.0	.9
10-11	.0	.0	.3	.9	.2	.0	1.4
12	.0	.0	.0	.3	.2	.0	.5
13-16	.0	.0	.0	.0	.5	.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	3.0	5.7	3.6	.8	.0	13.2

PERIOD: (OVER-ALL) 1963-1970

NOVEMBER

TABLE 18 (CONT)

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.4W

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	.0	.0	.0	.0	.2
1-2	.4	2.3	2.2	.0	.0	.0	4.9
3-4	.0	1.2	2.9	.9	.0	.0	5.1
5-6	.0	.8	1.7	.8	.2	.0	3.3
7	.0	.0	.8	.2	.0	.0	1.1
8-9	.0	.0	.3	1.0	.0	.0	1.3
10-11	.0	.0	.0	1.0	.0	.0	1.0
12	.0	.0	.0	.7	.2	.0	.9
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.2	.2	.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	4.4	8.0	4.9	.3	.0	18.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.9	.0	.0	.0	.0	1.1
1-2	*	1.4	.9	.3	.0	.0	2.4
3-4	.0	1.1	2.7	.3	.0	.0	4.0
5-6	.2	.3	1.6	.5	.2	.0	2.8
7	.0	.5	.9	.8	.2	.0	2.4
8-9	.0	.0	.4	.1	.0	.2	.6
10-11	.0	.0	.5	.3	.5	.0	1.3
12	.0	.0	.0	.0	.2	*	.2
13-16	.0	.0	.0	.5	.3	.0	.8
17-19	.0	.0	.2	.0	.2	.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	.3	4.2	7.2	2.4	1.5	.2	15.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.0	.0	.0	.0	.8
1-2	.0	.8	.5	.0	.0	.0	1.3
3-4	.0	1.2	2.2	.4	.0	.0	3.8
5-6	.0	.0	1.1	.3	.2	.0	1.6
7	.0	.0	1.4	.2	.1	.0	1.7
8-9	.0	.0	.7	.2	.1	.3	1.3
10-11	.0	.0	.5	.8	.8	.0	2.2
12	.0	.0	.0	.0	.3	.1	.4
13-16	.0	.0	.0	.2	.3	.0	.4
17-19	.0	.0	.0	.2	.2	.0	.3
20-22	.0	.0	.0	.0	.2	.0	.2
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	.2	2.7	6.3	2.4	2.2	.4	14.1

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	1.2	.5	.0	.0	.0	1.7	
3-4	.0	.8	2.5	*	.0	.0	3.4	
5-6	.0	.2	2.6	1.3	.0	.0	4.1	
7	.0	.0	1.3	1.2	.2	.0	2.7	
8-9	.0	.0	.1	.2	.5	*	.8	
10-11	.0	.0	.0	.5	.2	.0	.7	
12	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.3	.3	.2	.0	.8	
17-19	.0	.0	.0	.0	.2	.0	.2	
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	
TOT PCT	.0	2.4	7.5	3.5	1.2	.3	14.9	99.4

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	3.0	.6	.0	.0	.0	5.0	
1-2	.6	10.2	6.7	.0	.0	.0	17.4	
3-4	.2	6.8	15.0	2.0	.0	.0	23.9	
5-6	.2	1.8	11.5	3.6	.6	.0	17.7	
7	.0	.6	7.3	4.4	.6	.0	12.9	
8-9	.0	.0	2.7	4.1	.6	.5	7.9	
10-11	.0	.0	1.7	4.2	1.8	.2	7.9	
12	.0	.0	.2	1.7	.9	.2	2.6	
13-16	.0	.0	.3	1.1	1.7	.0	3.0	
17-19	.0	.0	.3	.3	.6	.0	1.2	
20-22	.0	.0	.0	.0	.2	.3	.5	
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	2.3	22.4	48.2	20.9	7.1	1.1	100.0	660

PERIOD: (OVER-ALL) 1969-1970

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	1.1	5.4	9.4	5.0	3.2	1.2	.9	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	401	4
6-7	.0	.1	4.5	8.3	8.3	3.5	2.6	1.5	1.8	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	460	7
8-9	.0	.1	1.2	2.4	4.3	3.7	3.3	1.8	1.7	.3	.8	.1	.0	.0	.0	.0	.0	.0	.0	286	9
10-11	.0	.0	.3	.7	1.8	.7	1.2	.7	1.6	.5	.4	.1	.3	.0	.0	.0	.0	.0	.0	124	11
12-13	.0	.0	.1	.3	.1	.2	.5	.3	.2	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	29	11
>13	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	4	12
INDET	1.0	.9	2.4	2.3	1.8	1.5	.9	.3	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	174	6
TOTAL	31	97	263	279	286	162	140	70	91	20	26	7	6	0	0	0	0	0	0	1478	7
PCT	2.1	6.6	17.8	18.9	19.4	11.0	9.5	4.7	6.2	1.4	1.8	.5	.4	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1956-1970
(OVER-ALL) 1879-1970

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.4W

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	4.2	1.4	2.9	.0	13.1	.3	.0	19.6	2.0	.0	2.7	.0	.3		.0	75.3
NE	9.3	1.7	6.9	.8	14.7	.0	.8	30.9	3.4	.0	6.9	.0	.0		.8	58.1
E	15.0	3.6	3.6	.0	13.3	1.7	.0	35.4	3.4	.0	7.5	.0	3.4		.9	49.4
SE	13.5	3.8	5.9	.0	5.2	.2	1.4	31.8	2.4	.0	18.6	3.0	.3		.0	43.9
S	11.7	2.8	3.5	.0	4.3	.3	.0	22.3	4.4	.0	23.0	1.9	1.7		.0	46.8
SW	3.5	3.2	2.4	.0	7.8	.0	.9	16.4	2.8	.1	8.0	.3	.4		.0	72.0
W	1.6	1.9	1.2	.2	10.4	.0	.4	14.7	4.9	.1	1.3	.4	.6		.2	77.7
NW	1.7	1.6	.6	.0	8.8	.0	.3	11.6	4.6	.0	2.9	.1	.7		.0	80.1
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	8.3	16.7	.0	.0		.0	75.0
TOT PCT	5.8	2.3	2.7	.1	9.3	.2	.4	19.5	3.6	.1	7.6	.6	.8		.1	67.6
TOT OBS:	2044															

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	7.6	3.2	2.4	.0	9.5	.2	.6	21.8	3.5	.0	6.7	.4	.6		.4	66.6
06&09	7.4	3.2	1.6	.2	8.6	.4	.0	19.4	4.2	.2	8.2	.6	.2		.2	66.9
12&15	2.6	.9	3.6	.0	9.0	.0	.9	16.7	3.4	.2	8.6	.6	1.3		.0	69.2
18&21	5.8	2.0	3.0	.2	10.2	.2	.2	20.0	3.2	.0	7.0	1.0	1.0		.0	67.7
TOT PCT	5.9	2.3	2.7	.1	9.3	.2	.4	19.5	3.6	.1	7.6	.6	.8		.1	67.6
TOT OBS:	2067															

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	2.7	9.1	9.7	1.5	.2		13.5	19.9	12.5	11.4	14.5	14.9	12.6	17.0	13.4	18.2
NE	*	1.7	2.5	1.3	.6	.1		6.2	18.0	5.7	4.2	6.1	7.1	6.3	7.1	6.8	7.1
E	.3	1.5	2.4	1.2	.5	*		5.9	17.2	5.9	7.3	6.8	6.3	5.0	4.2	6.4	1.9
SE	.2	1.6	3.0	1.7	.7	*		7.3	18.9	9.4	10.1	6.2	7.3	6.6	7.6	5.9	7.4
S	.2	2.6	5.4	2.9	1.0	.1		12.1	18.5	11.2	11.8	11.3	9.8	13.3	10.2	13.8	12.7
SW	.2	3.1	7.9	4.3	1.5	.4		16.8	20.0	15.7	16.5	17.8	14.6	18.0	17.0	16.5	15.1
W	.3	3.1	8.3	6.4	2.2	.4		20.7	21.2	22.9	1[illegible].5	18.1	23.0	20.9	18.4	21.5	23.5
NW	.2	2.6	7.0	5.1	1.4	.4		16.8	20.2	16.0	19.6	18.2	16.9	16.5	18.4	19.2	14.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6							.6	.0	.8	.5	1.0	.0	.8	.0	.4	.0
TOT OBS	63	484	1068	678	236	41	2550		19.6	519	186	499	99	521	144	501	81
TOT PCT	2.5	19.0	41.1	26.6	9.3	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	1.0	4.6	4.6	2.9	.5		13.5	19.9	12.2	14.6	13.6	14.1
NE	.7	2.5	1.9	1.0	.1		6.2	18.0	5.3	6.3	6.5	6.9
E	.6	2.6	1.7	1.0	.1		5.9	17.2	6.3	6.7	4.8	5.8
SE	.5	3.0	2.1	1.4	.3		7.3	18.9	9.6	6.4	6.8	6.1
S	.8	5.0	4.1	2.1	.2		12.1	18.5	11.3	11.0	12.7	13.7
SW	1.2	5.9	6.1	2.6	1.0		16.8	20.0	15.9	17.3	17.8	16.3
W	1.4	6.5	7.4	4.1	1.4		20.7	21.2	21.7	18.9	20.3	21.7
NW	1.1	5.8	6.3	2.8	.8		16.8	20.2	17.0	18.0	16.9	15.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.6						.6	.0	.7	.8	.6	.3
TOT OBS	203	913	871	495	108	2550		19.6	705	598	635	582
TOT PCT	8.0	35.8	34.2	17.8	4.2		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1875-1970

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.4W

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	.7	1.3	18.7	41.6	27.0	8.8	2.0	19.8	100.0	705
06&09	.8	2.0	19.1	40.8	26.4	9.7	1.2	19.4	100.0	598
12&15	.6	2.0	18.9	42.3	25.0	9.8	1.5	19.4	100.0	665
18&21	.3	2.2	19.2	39.5	28.2	8.8	1.7	19.8	100.0	582
TOT	16	47	484	1048	678	236	41	19.6		2550
PCT	.6	1.8	19.0	41.1	26.6	9.3	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	1.2	.4	3.8	8.7		6.8
NE	.4	.1	.7	4.6		7.2
E	.3	.2	.8	4.8		7.2
SE	.2	.3	1.0	5.2		7.3
S	1.0	.8	1.9	9.1		6.9
SW	3.1	1.7	4.8	7.9		5.8
W	3.3	2.2	7.1	8.2		5.8
NW	1.7	1.8	5.3	6.8		6.1
VAR	.0	.0	.0	.0		.0
CALM	.1	.1	.1	.3		6.0
TOT OBS	176	122	403	872	1573	6.4
TOT PCT	11.2	7.8	25.6	55.4	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	.7	.1	.4	2.5	4.2	3.4	.6	.1	.1	.0	2.2	
NE	.8	.0	.3	.8	1.3	1.2	.4	.1	.1	*	.8	
E	1.2	.1	.3	.8	.8	1.0	.5	.2	.1	.3	.8	
SE	1.3	*	.5	.5	1.5	1.3	.1	.3	.1	.1	1.0	
S	2.8	.1	.8	1.7	2.1	1.7	.5	.3	.3	.2	2.3	
SW	1.2	*	.4	1.4	3.2	3.4	.7	.2	.1	*	6.6	
W	.4	.1	.5	2.1	5.5	3.7	1.0	.3	.2	.1	6.9	
NW	.3	.1	.5	2.0	3.8	3.4	.8	.2	*	.1	4.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.1	.1	.1	.1	.0	.0	.0	.1	
TOT OBS	139	9	60	187	354	299	71	26	17	13	398	1573
TOT PCT	8.8	.6	3.8	11.9	22.5	19.0	4.5	1.7	1.1	.8	25.3	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	1.1	1.8	1.9	1.9	1.9	1.9	1.9	1.9
* OR >5000	1.8	3.4	3.6	3.6	3.6	3.6	3.6	3.6
* OR >3500	4.4	7.8	8.2	8.2	8.2	8.2	8.2	8.2
* OR >2000	13.7	24.8	26.8	27.7	27.3	27.4	27.4	27.4
* OR >1000	24.7	43.5	47.8	49.0	49.6	49.7	49.8	49.8
* OR >600	30.5	53.0	59.0	60.5	61.4	61.6	61.7	61.7
* OR >300	31.1	54.6	61.8	63.9	65.0	65.2	65.4	65.4
* OR >150	31.2	54.8	62.3	64.4	65.6	65.8	66.0	66.0
* OR > 0	31.4	55.6	63.9	67.0	69.3	71.7	74.3	74.7
TOTAL	495	878	1009	1058	1094	1132	1173	1179

TOTAL NUMBER OF OBS: 1578 PCT FREQ NH <5/8: 25.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.2	9.5	6.6	5.1	4.0	4.9	10.1	9.8	43.4	7.4	1736

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1873-1970

AREA 0004 SE NEWFOUNDLAND COAST
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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	.2	.2	.3	.1	.5	.1	.2	*	.0	.0	1.6	
<1/2	NO PCP	.2	.3	.1	.6	1.6	.7	.0	.1	.0	.1	3.7	
	TOT %	.4	.5	.4	.7	2.0	.8	.2	.1	.0	.1	5.3	
	PCP	.3	.2	*	*	.1	.3	.2	.1	.0	.0	1.3	
1/2<1	NO PCP	.1	*	.2	.3	.3	.1	.1	.2	.0	.0	1.5	
	TOT %	.4	.3	.2	.3	.4	.4	.3	.3	.0	.0	2.8	
	PCP	.4	.2	.3	.5	.3	.2	.1	.2	.0	.0	2.3	
1<2	NO PCP	.2	.1	*	.3	.6	.1	.2	.1	.0	.0	1.5	
	TOT %	.6	.4	.4	.8	.9	.2	.2	.3	.0	.0	3.8	
	PCP	.4	.4	.5	.8	1.1	.7	.5	.5	.0	.0	4.9	
2<5	NO PCP	.5	.3	.3	.4	.7	1.4	.6	.7	.0	.0	4.9	
	TOT %	.9	.7	.8	1.2	1.8	2.1	1.1	1.3	.0	.0	9.8	
	PCP	1.9	.8	.8	.6	.7	1.4	1.2	.6	.0	.0	7.3	
5<10	NO PCP	7.8	1.1	1.1	1.7	3.5	4.9	6.1	4.5	.0	.1	26.9	
	TOT %	9.1	1.9	1.9	2.2	4.3	6.3	7.3	5.1	.0	.1	34.2	
	PCP	.3	.2	*	.2	.2	.2	.8	.4	.0	.0	2.3	
10+	NO PCP	7.0	2.5	1.8	1.5	3.0	7.2	10.3	8.1	.0	.4	41.8	
	TOT %	7.3	2.7	1.9	1.7	3.1	7.4	11.1	8.5	.0	.4	44.1	
	TOT OBS												2044
	TOT PCT	14.6	6.4	5.7	7.0	12.5	17.1	20.3	15.7	.0	.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
	0-3	.1	*	.0	*	.0	.0	.0	*	.0	.1	.3	
<1/2	4-10	.0	.1	*	.1	.6	.1	.1	*	.0		1.0	
	11-21	.1	.1	.1	.4	1.0	.4	*	*	.0		2.2	
	22+	.2	.3	.3	.2	.4	.3	.1	*	.0		1.7	
	TOT %	.3	.5	.4	.7	2.0	.8	.2	.1	.0	.1	5.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.1	.1	*	.1	.1	.2	*	.0		.6	
	11-21	.1	.1	.1	.1	.3	.3	.1	.2	.0		1.3	
	22+	.2	.1	*	.1	.1	*	.1	.1	.0		.7	
	TOT %	.4	.2	.2	.3	.5	.4	.3	.3	.0	.0	2.6	
	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1<2	4-10	*	.0	*	*	.1	.1	*	.1	.0		.4	
	11-21	.1	.1	.2	.3	.3	.2	*	.0	.0		1.4	
	22+	.4	.3	.1	.4	.3	.1	.2	.2	.0		2.0	
	TOT %	.6	.4	.4	.8	.9	.4	.3	.3	.0	.0	3.9	
	0-3	.0	.0	.0	.0	*	.1	*	.0	.0	.0	.1	
2<5	4-10	.1	.4	.2	.1	.3	.2	.2	.1	.0		1.6	
	11-21	.3	.1	.2	.5	.7	.8	.5	.5	.0		3.5	
	22+	.6	.3	.3	.6	.7	1.1	.6	.7	.0		5.0	
	TOT %	1.0	.8	.8	1.2	1.8	2.1	1.3	1.3	.0	.0	10.3	
	0-3	.0	.0	.0	.1	*	*	.1	.1	.0	.1	.3	
5<10	4-10	.9	.0	.5	.5	.6	1.0	.7	.5	.0		5.4	
	11-21	1.6	.7	.9	.8	1.7	2.6	2.5	1.7	.0		12.5	
	22+	2.1	.5	.6	.7	1.6	2.3	3.7	2.6	.0		14.1	
	TOT %	4.6	1.7	2.0	2.0	3.9	6.0	7.0	4.9	.0	.1	32.3	
	0-3	.2	*	.2	*	.2	.1	.1	.1	.0	.3	1.3	
10+	4-10	1.5	.6	.7	.7	1.0	1.7	1.9	1.6	.0		9.7	
	11-21	3.2	1.4	.8	.8	1.3	3.4	5.4	4.8	.0		21.0	
	22+	2.0	.5	.3	.3	.8	2.6	4.5	2.9	.0		13.7	
	TOT %	6.9	2.5	2.0	1.9	3.2	7.7	11.8	9.4	.0	.3	45.7	
	TOT OBS												2317
	TOT PCT	13.9	6.2	5.7	6.9	12.3	17.3	20.9	16.3	.0	.5	100.0	

DECEMBER

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1875-1970

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.4W

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	9.8	.3	3.8	9.3	21.4	17.4	4.3	1.8	1.5	1.0	70.5	29.5	397
06&09	10.3	.8	3.2	7.7	20.6	20.6	3.7	2.4	.8	.5	70.4	29.6	379
12&15	8.2	.2	3.6	14.4	22.8	20.9	5.0	1.2	1.2	1.2	78.8	21.2	416
18&21	6.4	1.0	4.5	14.8	23.3	16.9	4.8	1.7	.7	.5	74.5	25.5	420
TOT	139	9	61	188	356	305	72	28	17	13	1188	424	1612
PCT	8.6	.6	3.8	11.7	22.1	18.9	4.5	1.7	1.1	.8	73.7	26.3	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	5.1	2.4	4.3	10.9	34.7	42.5	623
06&09	4.5	1.8	3.4	10.5	34.1	45.7	554
12&15	5.7	2.6	3.6	9.7	32.6	45.7	610
18&21	5.4	3.4	4.2	10.3	27.8	48.9	554
TOT	122	60	91	242	758	1068	2341
PCT	5.2	2.6	3.9	10.3	32.4	45.6	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	10.3	15.0	32.0	41.1	26.9	387
06&09	10.3	14.9	28.0	46.2	25.8	368
12&15	8.3	14.2	37.2	44.3	18.6	409
18&21	6.5	14.3	33.8	42.5	23.7	414
TOT	139	230	519	686	373	1578
PCT	8.8	14.6	32.9	43.5	23.6	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
50/54	.0	.0	.0	.0	.0	.0	.1	.2	5	.4
45/49	.0	.0	.1	.0	.1	.4	1.3	4.4	87	6.4
40/44	.0	.0	.0	.1	.9	2.3	4.5	10.6	250	18.3
35/39	.0	.0	.1	.9	2.3	6.1	10.1	16.1	485	35.6
30/34	.0	.1	.1	.4	2.7	6.8	8.7	8.7	375	27.5
25/29	.0	.0	.0	.2	1.0	2.6	2.9	3.1	135	9.9
20/24	.0	.0	.0	.0	.0	.4	.7	.5	22	1.6
15/19	.0	.0	.0	.0	.1	.0	.1	.1	4	.3
TOTAL	0	1	4	23	97	254	388	596	1363	100.0
PCT	.0	.1	.3	1.7	7.1	18.6	28.5	43.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	.2	.1	.1	.0	.0	.0
.0	.0	.6	1.2	3.4	.5	.3	.1	.0	.2
1.4	1.2	.9	2.3	4.9	4.4	2.1	1.2	.0	.0
5.9	3.1	1.8	1.5	3.5	7.6	7.2	4.8	.0	.1
5.6	2.3	1.5	1.3	1.0	3.1	6.6	6.0	.0	.1
1.9	.2	.6	.1	.1	.8	3.1	3.2	.0	.0
.1	*	.0	.1	.0	.0	.5	.8	.0	.0
.1	.0	.0	.0	.0	.0	.2	.1	.0	.0
14.9	6.9	5.4	6.6	13.1	16.5	20.0	16.1	.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	55	48	45	35	25	19	18	35.7	697
06&09	52	48	45	35	26	22	18	35.5	593
12&15	54	49	45	35	26	21	17	35.5	652
18&21	51	48	45	36	27	22	16	35.8	576
TOT	55	48	45	35	26	21	16	35.6	2518

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.7	7.0	17.5	32.1	40.7	83	371
06&09	.0	1.1	8.3	17.5	25.9	47.1	86	348
12&15	.0	1.8	5.2	20.9	28.3	43.7	86	325
18&21	.0	2.4	7.8	19.3	26.2	44.3	86	332
TOT	0	28	98	298	388	604	86	1376

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1879-1970

TABLE 17

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.4W

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	13 14	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.1	.2	.1	7	.2	.2
9/10	.0	.0	.0	.0	.0	.0	.1	.7	.6	.2	27	.5	1.0
7/8	.0	.0	.0	.0	.0	.0	.4	1.1	.9	.2	45	.8	1.7
6	.0	.0	.0	.0	.0	.0	.4	.7	.7	.1	35	.6	1.4
5	.0	.0	.0	.0	.0	.2	1.1	.8	1.0	.2	58	.6	2.7
4	.0	.0	.0	.0	.0	.3	1.6	1.5	.6	.0	71	.7	3.3
3	.0	.0	.0	.0	.0	.4	1.5	1.5	.8	.1	75	.7	3.5
2	.0	.0	.0	.0	.0	1.3	2.1	1.4	.5	.0	96	1.0	4.4
1	.0	.0	.0	.0	.3	2.5	3.1	1.2	.4	.0	133	1.0	6.5
0	.0	.0	.0	.0	.7	3.4	3.4	1.6	.3	.0	167	.4	9.0
-1	.0	.0	.0	.0	1.0	4.2	2.3	1.0	.2	.0	193	.4	8.2
-2	.0	.0	.0	.2	1.3	3.3	1.8	.8	.2	.0	136	.5	7.1
-3	.0	.0	.0	.2	1.5	3.8	1.1	.4	.0	.0	123	.2	6.7
-4	.0	.0	.0	.4	2.7	3.0	1.7	.2	.0	.0	144	.1	8.0
-5	.0	.0	.1	.8	1.6	2.0	1.0	.1	.1	.0	100	.1	5.5
-6	.0	.0	.1	1.0	1.7	2.4	.4	.1	.0	.0	100	.0	5.6
-7/-8	.0	.0	.3	1.7	2.8	2.5	.8	.1	.1	.0	145	.1	8.1
-9/-10	.0	.1	.6	2.1	2.0	1.2	.1	.0	.0	.0	108	.0	6.1
-11/-13	.0	.1	.5	.7	.4	.4	.1	.0	.0	.0	39	.0	2.2
-14/-16	.1	.3	.4	.1	.1	.2	.0	.0	.0	.0	19	.0	1.1
-17/-19	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	1		37		288		409		115			137	1647
		9		125		551		236		13	1784		
PCT	.1	.5	2.1	7.0	16.1	30.9	22.9	13.2	6.4	.7	100.0	7.7	92.3

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	.5
1-2	.6	1.5	.5	.0	.0	.0	2.6
3-4	.0	.4	2.1	.4	.0	.0	2.9
5-6	.0	.2	1.5	.4	.1	.0	2.2
7	.0	.0	1.4	1.5	.3	.1	3.3
8-9	.0	.0	.4	.9	.3	.0	1.6
10-11	.0	.0	.4	.8	.4	.0	1.6
12	.0	.0	.0	.1	.1	.1	.4
13-16	.0	.0	.0	1.0	.4	.0	1.4
17-19	.0	.0	.0	.0	.6	.0	.6
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.1	.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	.7	2.4	6.4	5.0	2.4	.3	17.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	*	*	.0	.0	.0	.1
1-2	.0	.6	.4	.0	.0	.0	.9
3-4	.0	.3	.7	.1	.0	.0	1.1
5-6	.0	*	.8	.0	.0	.0	.8
7	.0	.1	.1	.4	.4	*	1.1
8-9	.0	.0	*	.3	.4	.0	.8
10-11	.0	.0	.0	.6	.1	.0	.7
12	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.0	*	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.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	*	1.1	2.0	1.5	1.2	*	5.9

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	.1	.5	.0	.0	.0	.7
3-4	.0	.1	.7	.1	.0	.0	1.0
5-6	.0	.4	.3	.3	.0	.0	1.0
7	.0	.0	.3	.4	.4	.0	1.1
8-9	.0	.0	.3	.3	.0	.0	.6
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.1	.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	1.0	2.1	1.4	.6	.1	5.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2
1-2	.0	.6	.2	.0	.0	.0	.8
3-4	.0	.2	.2	*	.0	.0	.4
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.1	.1	.1	.0	.4
8-9	.0	.0	.3	.2	.2	.0	.7
10-11	.0	.0	.0	.1	.2	.0	.3
12	.0	.0	.0	*	*	.0	.1
13-16	.0	.0	.0	.3	*	.0	.4
17-19	.0	.0	.0	.0	.1	*	.2
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	.2	.8	1.2	.9	.7	.1	3.8

PERIOD: (OVER-ALL) 1963-1970 DECEMBER AREA 0004 SE NEWFOUNDLAND COAST

TABLE 18 (CONT) 46.9N 51.4W

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	.0	.0	.0	.0	.0	.3
1-2	.1	1.4	.1	.0	.0	.0	1.6
3-4	.0	.6	2.1	.1	.0	.0	2.8
5-6	.0	.1	2.8	.8	.1	.0	3.9
7	.0	.1	1.1	.7	.0	.0	1.9
8-9	.0	.0	.3	.3	.1	.0	.7
10-11	.0	.0	.1	.3	.6	.0	.9
12	.0	.0	.1	.3	.3	.0	.7
13-16	.0	.0	.0	.8	.7	.0	1.5
17-19	.0	.0	.0	.1	.0	.1	.3
20-22	.0	.0	.0	.0	.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	.4	2.3	6.5	3.5	1.7	.2	14.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	*	1.3	1.0	.0	.0	.0	2.4
3-4	.0	.2	2.3	.6	.0	.0	3.2
5-6	.0	.0	2.4	1.6	.0	.0	4.0
7	.0	.0	1.4	1.2	.1	.0	2.7
8-9	.0	.0	.7	1.1	.1	.0	1.9
10-11	.0	.0	.3	1.2	.0	.1	1.9
12	.0	.1	.3	.1	.2	.1	.9
13-16	.0	.0	.1	.9	1.3	.4	2.6
17-19	.0	.0	.0	.4	.2	.0	.6
20-22	.0	.0	.0	.0	.0	.1	.1
23-25	.0	.0	.0	.0	.4	.0	.4
26-32	.0	.0	.0	.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	*	2.3	8.8	7.1	2.4	.8	21.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.1	1.3	.8	.0	.0	.0	2.2
3-4	.0	.6	1.5	.3	.0	.0	2.3
5-6	.0	.3	1.8	.8	.0	.0	2.9
7	.0	.0	1.1	.6	.1	.0	1.8
8-9	.0	.0	.3	1.2	.3	.0	1.7
10-11	.0	.0	.3	1.0	.0	.0	1.2
12	.0	.0	.0	.3	.1	.0	.4
13-16	.0	.0	.5	1.3	.4	.2	2.4
17-19	.0	.0	.0	.3	.3	.0	.6
20-22	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.2	.0	.2
26-32	.0	.0	.0	.0	.1	.3	.4
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.3	6.2	5.6	1.7	.5	16.4

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	1.1	.4	.0	.0	.0	1.4	
3-4	.1	.2	2.1	.1	.0	.0	2.6	
5-6	.0	.1	2.3	.4	.1	.0	3.0	
7	.0	.0	.8	1.0	.3	.0	2.2	
8-9	.0	.1	.1	1.1	.2	.0	1.5	
10-11	.0	.0	.3	.4	.4	.0	1.1	
12	.0	.0	.1	.5	.1	.1	.9	
13-16	.0	.0	.2	.1	.5	.3	1.1	
17-19	.0	.0	.1	.1	.1	.3	.7	
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	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	1.8	6.5	3.9	1.8	.7	14.8	99.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.2	1.8	.1	.0	.0	.0	3.1	
1-2	.9	7.9	3.8	.0	.0	.0	12.6	
3-4	.1	2.6	11.7	1.8	.0	.0	16.3	
5-6	.0	1.2	12.2	4.3	.4	.0	18.0	
7	.0	.3	6.3	6.0	1.8	.1	14.5	
8-9	.0	.1	2.3	5.3	1.6	.0	9.4	
10-11	.0	.0	1.6	4.5	1.6	.1	7.9	
12	.0	.1	.6	1.3	1.2	.4	3.7	
13-16	.0	.0	.7	4.5	3.4	1.0	9.7	
17-19	.0	.0	.1	1.0	1.3	.4	2.9	
20-22	.0	.0	.0	.1	.3	.3	.7	
23-25	.0	.0	.0	.0	.7	.0	.7	
26-32	.0	.0	.0	.0	.1	.3	.4	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								682
TOT PCT	2.2	14.1	39.6	28.9	12.5	2.8	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	.4	2.8	7.2	5.6	2.5	.9	.8	.6	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	298	5
6-7	.0	.1	2.3	7.6	6.9	4.9	3.4	1.3	2.2	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	413	8
8-9	.0	.0	.9	3.0	3.0	3.7	3.2	2.1	4.6	1.3	.4	.4	.1	.0	.0	.0	.0	.0	.0	317	10
10-11	.0	.1	.1	.6	1.2	1.0	2.6	1.2	2.4	.6	.4	.2	.1	.1	.0	.0	.0	.0	.0	148	11
12-13	.0	.0	.3	.1	.1	.1	.3	.4	.8	.4	.1	.0	.1	.0	.0	.0	.0	.0	.0	39	12
>13	.0	.0	.0	.1	.0	.1	.4	.1	.4	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	20	13
INDET	.7	1.4	2.2	1.7	2.4	1.1	1.1	.5	.4	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	170	6
TOTAL	16	63	181	265	227	165	166	89	157	41	16	11	7	1	0	0	0	0	0	1405	8
PCT	1.1	4.5	12.9	18.9	16.2	11.7	11.8	6.3	11.2	2.9	1.1	.8	.5	.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1958-1971
(OVER-ALL) 1869-1971

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

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	1.3	3.0	.2	6.2	.1	.3	14.1	2.0	.0	12.3	.6	.6		.1	70.3
NE	8.7	1.8	4.8	.4	6.1	.1	.3	20.9	2.6	*	17.5	.8	.3		.1	57.7
E	11.7	1.5	5.2	.2	6.6	.4	.2	24.7	2.7	.1	22.6	1.1	1.1		.1	47.7
SE	12.8	2.2	5.2	.4	5.0	.1	.5	25.3	2.2	.2	27.7	.9	1.1		.1	42.6
S	9.6	2.1	3.6	.1	2.9	.1	.1	18.0	2.5	.2	30.2	1.2	1.0		*	46.9
SW	3.8	1.1	2.0	.1	4.7	.1	.2	11.4	2.1	.1	22.5	.9	1.1		*	61.9
W	1.8	1.2	1.4	.1	5.4	*	.3	9.7	2.9	.1	10.9	.7	1.0		.1	74.7
NW	2.6	1.7	1.7	*	5.5	.1	.4	11.4	3.0	.1	9.2	.8	.6		.1	74.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	1.1	.8	1.4	.0	.6	.0	.0	3.9	.8	.8	91.1	2.2	2.2		.0	99.1
TOT PCT	5.5	1.4	2.7	.1	5.1	.1	.3	14.6	2.4	.1	19.9	.8	.9		.1	61.2
TOT OBS: 25317																

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	5.9	1.6	3.0	.2	5.0	.1	.3	15.3	2.1	.2	18.5	.6	.9		.1	62.3
06&09	6.4	1.6	3.2	.2	5.5	.1	.1	16.2	3.0	.2	19.4	.8	.5		*	60.0
12&15	4.9	1.2	2.8	.1	4.9	.1	.4	13.9	2.1	*	21.5	.9	.9		*	60.6
18&21	4.8	1.4	2.0	.1	5.0	.1	.2	13.1	2.6	*	20.5	1.0	1.2		*	61.6
TOT PCT	5.5	1.4	2.7	.1	5.1	.1	.3	14.6	2.4	.1	20.0	.8	.9		.1	61.2
TOT OBS: 25847																

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	2.8	4.8	2.4	.7	.1		11.2	16.6	10.8	9.8	11.5	11.2	11.3	11.7	11.4	11.0
NE	.3	2.4	3.2	1.2	.3	*		7.4	15.0	8.4	6.8	7.1	6.8	7.2	6.6	7.8	7.9
E	.3	2.2	2.5	.9	.2	*		6.1	13.8	5.7	6.3	6.0	6.4	5.9	6.2	6.5	6.5
SE	.4	2.4	3.2	1.2	.3	*		7.5	15.1	8.0	7.7	7.0	7.2	7.4	8.9	7.2	7.6
S	.5	4.7	6.5	2.6	.4	.1		14.8	15.8	15.2	14.7	13.8	13.9	14.2	14.8	15.7	15.9
SW	.6	6.1	10.2	3.9	.7	.1		21.5	16.6	21.8	21.8	21.5	20.9	20.6	20.9	22.3	22.7
W	.4	4.1	7.7	4.1	1.4	.2		17.9	17.4	17.6	19.6	18.9	18.5	18.3	16.9	16.6	17.1
NW	.2	2.8	5.1	2.9	.8	.1		12.0	17.1	11.1	12.3	12.1	13.7	12.8	13.5	11.1	10.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0	1.5	.9	2.0	1.3	2.3	.7	1.5	.9
TOT OBS							29978		16.1	5752	1941	5428	1406	6137	2148	5969	1177
TOT PCT	4.7	27.6	43.1	19.1	4.9	.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	1.4	4.4	3.6	1.3	.2		11.2	16.6	10.5	11.4	11.4	11.3
NE	1.2	3.4	2.2	.6	.1		7.4	15.0	8.0	7.0	7.0	7.8
E	1.1	2.9	1.6	.4	.1		6.1	13.8	5.8	6.0	6.0	6.4
SE	1.3	3.5	1.9	.7	.1		7.5	15.1	7.9	7.1	7.8	7.3
S	2.2	6.9	4.3	1.2	.2		14.8	15.8	15.1	13.9	14.4	15.8
SW	2.7	10.0	6.8	1.8	.3		21.5	16.6	21.8	21.4	20.7	22.3
W	1.7	7.1	5.9	2.6	.5		17.9	17.4	18.1	18.8	17.9	16.7
NW	1.2	4.7	4.0	1.8	.3		12.0	17.1	11.4	12.5	12.9	11.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	1.4	1.9	1.9	1.4
TOT OBS						29978		16.1	7693	6894	8305	7146
TOT PCT	14.5	42.8	30.2	10.7	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	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.4	3.0	28.4	43.6	18.6	4.3	.7	15.9	100.0	7693
06&09	1.9	2.5	26.7	44.5	19.4	4.5	.4	16.1	100.0	6834
12&15	1.9	3.8	28.5	41.9	18.2	5.2	.6	15.9	100.0	8305
18&21	1.4	3.0	26.6	42.3	20.6	5.6	.6	16.6	100.0	7146
TOT								16.1		29978
PCT	1.6	3.1	27.6	43.1	19.1	4.9	.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	1.4	.8	2.5	6.6		6.4
NE	.7	.4	1.3	4.8		6.7
E	.5	.2	.9	4.8		7.0
SE	.5	.3	.8	5.8		7.1
S	1.7	.8	2.2	10.0		6.7
SW	4.5	1.8	4.2	10.8		5.8
W	4.6	2.2	4.7	6.6		5.1
NW	2.1	1.1	3.2	5.2		5.7
VAR	.0	.0	.0	.0		.0
CALM	.4	.1	.3	.8		5.1
TOT OBS					18420	6.1
TOT PCT	16.6	7.8	20.2	55.5	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	1.1	.1	.4	1.4	2.7	2.0	.4	.1	.1	.1	2.9	
NE	1.1	.1	.3	1.0	1.4	1.1	.3	.1	.1	.1	1.7	
E	1.4	.1	.4	.7	1.1	.9	.2	.1	.1	.1	1.2	
SE	1.9	*	.4	.9	1.4	.9	.2	.1	.1	.2	1.3	
S	4.4	.1	.5	1.3	2.1	1.3	.5	.2	.2	.4	3.8	
SW	4.4	.1	.5	1.6	2.8	2.1	.6	.2	.3	.4	6.3	
W	1.2	*	.4	1.3	3.2	2.7	.6	.2	.2	.2	8.3	
NW	.6	.1	.3	1.2	2.7	2.1	.4	.2	.1	.1	3.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	*	*	.1	.1	.1	*	*	*	*	.7	
TOT PCT	16.6	.6	3.2	9.5	17.5	13.1	3.3	1.1	1.2	1.6	32.1	18420 100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.5	2.5	2.8	2.8	2.8	2.8	2.9	2.9
= OR >5000	2.1	3.5	3.9	3.9	3.9	4.0	4.0	4.0
= OR >3500	3.9	6.5	7.0	7.1	7.2	7.2	7.2	7.2
= OR >2000	10.0	18.1	19.7	20.0	20.1	20.2	20.3	20.3
= OR >1000	17.3	32.1	35.9	36.8	37.3	37.5	37.6	37.7
= OR >600	20.5	38.6	44.1	45.8	46.6	47.0	47.2	47.3
= OR >300	20.9	39.9	46.4	48.5	49.6	50.1	50.4	50.4
= OR >150	21.0	40.2	46.8	49.0	50.1	50.6	51.0	51.1
= OR > 0	21.1	40.6	47.9	51.2	53.8	57.2	65.7	67.7

TOTAL NUMBER OF OBS: 18520

PCT FREQ NH <5/8: 32.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
12.0	5.2	6.1	4.5	3.8	3.9	7.3	6.9	35.0 15.2	19832

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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	.1	.2	.2	.5	.4	.2	.1	.0	*	1.8	
	NO PCP	.7	.8	.9	1.5	3.7	3.8	.9	.4	.0	.5	13.2	
	TOT %	.8	.9	1.1	1.7	4.2	4.2	1.1	.6	.0	.5	14.9	
1/2<1	PCP	.2	.1	.1	.2	.2	.2	.2	.1	.0	*	1.3	
	NO PCP	.2	.2	.2	.3	.5	.5	.2	.1	.0	*	2.3	
	TOT %	.4	.3	.3	.4	.7	.7	.4	.3	.0	*	3.6	
1<2	PCP	.2	.2	.2	.3	.3	.2	.1	.1	.0	*	1.6	
	NO PCP	.2	.2	.2	.2	.4	.5	.2	.1	.0	*	2.0	
	TOT %	.4	.5	.3	.4	.7	.7	.3	.2	.0	.1	3.6	
2<5	PCP	.4	.4	.5	.6	.6	.5	.3	.3	.0	*	3.5	
	NO PCP	.6	.4	.3	.4	.8	1.2	.7	.5	.0	.1	4.9	
	TOT %	.9	.8	.8	1.0	1.4	1.6	1.0	.8	.0	.1	8.4	
5<10	PCP	.7	.5	.5	.7	.8	.4	.9	.7	.0	*	5.5	
	NO PCP	3.2	1.9	1.4	1.6	3.2	5.9	5.1	3.3	.0	.3	25.4	
	TOT %	3.9	2.4	1.9	2.2	3.9	6.3	6.0	4.0	.0	.3	30.9	
10+	PCP	.2	.1	.1	.1	.1	.1	.3	.2	.0	*	1.1	
	NO PCP	4.8	2.5	1.7	1.7	3.9	7.7	8.9	5.6	.0	.6	37.5	
	TOT %	5.0	2.6	1.8	1.8	4.0	7.8	9.1	5.8	.0	.6	38.6	
	TOT OBS												25222
	TOT PCT	11.3	7.5	6.3	7.6	14.9	21.3	17.9	11.6	.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	.1	.1	.1	.1	.2	.2	.1	*	.0	.5	1.2	
	4-10	.3	.4	.3	.6	1.3	1.2	.4	.2	.0		5.0	
	11-21	.3	.3	.3	.7	2.0	2.1	.5	.2	.0		6.3	
	22+	.1	.1	.1	.2	.7	.7	.1	.1	.0		2.1	
	TOT %	.8	.9	1.0	1.7	4.1	4.1	1.0	.5	.0	.5	14.6	
1/2<1	0-3	*	*	*	*	*	*	*	*	.0	.1	.2	
	4-10	.1	.1	.1	.1	.2	.2	.1	.1	.0		1.0	
	11-21	.1	.1	.1	.2	.3	.3	.1	.1	.0		1.4	
	22+	.1	.1	.1	.1	.2	.2	.1	.1	.0		.9	
	TOT %	.4	.3	.3	.4	.7	.7	.4	.2	.0	.1	3.5	
1<2	0-3	*	*	*	*	*	*	*	*	.0	.1	.1	
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0		.8	
	11-21	.2	.2	.2	.2	.3	.4	.1	.1	.0		1.5	
	22+	.1	.2	.1	.2	.2	.2	.1	.1	.0		1.2	
	TOT %	.4	.5	.3	.4	.7	.7	.4	.2	.0	.1	3.7	
2<5	0-3	*	*	*	*	*	*	*	*	.0	.1	.3	
	4-10	.1	.2	.2	.1	.3	.3	.2	.1	.0		1.7	
	11-21	.4	.3	.3	.5	.6	.7	.4	.3	.0		3.5	
	22+	.4	.2	.3	.3	.5	.6	.4	.3	.0		3.0	
	TOT %	.9	.8	.8	1.0	1.4	1.7	1.0	.8	.0	.1	8.4	
5<10	0-3	.1	*	.1	.1	.1	.1	.1	*	.0	.3	.8	
	4-10	.7	.6	.6	.6	1.0	1.4	1.1	.7	.0		6.7	
	11-21	1.6	1.0	.9	.9	1.7	3.0	2.3	1.6	.0		13.0	
	22+	1.4	.6	.3	.6	1.0	1.6	2.3	1.5	.0		9.3	
	TOT %	3.7	2.3	1.8	2.2	3.8	6.1	5.7	3.8	.0	.3	29.8	
10+	0-3	.2	.1	.1	.1	.2	.2	.2	.1	.0	.7	1.9	
	4-10	1.4	1.0	.8	.8	1.7	2.6	2.2	1.6	.0		12.1	
	11-21	2.4	1.3	.8	.8	1.8	3.8	4.3	3.0	.0		17.9	
	22+	1.1	.4	.2	.2	.5	1.6	2.7	1.5	.0		8.1	
	TOT %	5.1	2.8	1.8	1.9	4.1	8.1	9.3	6.2	.0	.7	40.0	
	TOT OBS												27683
	TOT PCT	11.2	7.5	6.1	7.6	14.8	21.5	17.9	11.8	.0	1.6	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	16.8	.6	2.9	8.9	16.1	11.8	3.5	1.0	1.2	1.8	64.6	35.4	4635
06&09	19.6	.5	2.8	7.9	17.1	13.2	2.8	.8	1.1	1.3	67.0	33.0	4599
12&15	15.5	.7	3.6	10.0	18.3	14.4	3.5	1.2	1.3	1.6	70.1	29.9	4777
18&21	14.4	.7	3.4	10.9	17.3	12.0	3.0	1.3	1.2	1.8	66.0	34.0	4941
TOT													18952
PCT	16.5	.6	3.2	9.5	17.2	12.9	3.2	1.1	1.2	1.6	66.9	33.1	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	14.2	3.4	3.6	7.7	32.6	38.4	7083
06&09	15.5	3.3	3.4	8.2	29.3	40.3	6554
12&15	15.4	4.1	3.7	8.8	29.1	39.0	7742
18&21	14.0	3.2	3.9	8.8	27.8	42.3	6843
TOT							28222
PCT	14.7	3.5	3.7	8.4	29.7	40.0	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	17.2	22.2	36.2	31.2	32.6	4503
06&09	19.9	24.6	37.4	32.4	30.2	4491
12&15	15.4	21.9	38.4	39.7	27.9	4694
18&21	14.5	20.9	37.2	31.3	31.5	4832
TOT						18520
PCT	16.7	22.4	37.3	32.1	30.6	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	*	.0	.0	*	.0		*
70/74	.0	.0	.0	*	*	.0	*	.0		*
65/69	.0	.0	*	*	*	.1	.1	.2		.5
60/64	.0	.0	*	*	.1	.4	1.0	1.7		3.2
55/59	.0	.0	*	*	.3	1.0	3.1	5.5		9.9
50/54	*	*	*	*	.5	1.2	4.2	7.1		13.1
45/49	.0	.0	*	.1	.5	1.6	2.9	6.7		11.8
40/44	.0	*	*	.1	.8	1.7	3.3	7.9		14.0
35/39	.0	.0	*	.3	.9	2.1	5.1	11.9		20.4
30/34	.0	*	*	.2	.9	2.6	5.6	8.7		18.1
25/29	.0	.0	*	.2	.6	1.4	1.6	1.8		5.6
20/24	.0	.0	.0	*	.1	.7	.8	.6		2.2
15/19	.0	.0	*	*	.1	.1	.3	.3		.9
10/14	.0	.0	.0	.0	*	*	.1	.1		.3
TOTAL									16145	100.0
PCT	*	.1	.2	1.1	4.9	13.0	28.1	52.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	*	.0	.0	.0	.0
.0	.0	.0	.0	*	*	.0	.0	.0	.0
*	*	*	*	.1	.2	.1	*	.0	.0
.1	.1	.1	.2	.9	1.1	.7	.1	.0	*
.5	.4	.5	.7	2.2	3.2	1.8	.5	.0	.2
1.1	.7	.7	1.0	2.6	3.8	2.0	1.0	.0	.2
1.0	.9	.8	1.2	2.3	2.7	1.7	1.0	.0	.2
1.4	1.2	1.0	1.3	2.6	2.8	2.0	1.3	.0	.3
2.8	2.2	1.8	1.6	2.5	4.0	3.0	2.3	.0	.2
3.1	1.7	1.3	1.1	1.5	2.9	3.6	2.7	.0	.1
.9	.3	.2	.3	.3	.6	1.8	1.2	.0	*
.3	.1	*	*	*	.1	.8	.8	.0	*
.1	*	*	.0	.0	*	.4	.3	.0	.0
*	.0	.0	.0	.0	.0	.1	.1	.0	.0
11.3	7.6	6.6	7.6	14.9	21.5	18.0	11.3	.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	75	52	49	41	33	29	7	42.6	7717
06&09	68	51	48	41	33	30	9	42.2	6888
12&15	75	53	50	42	33	29	7	43.1	8329
18&21	80	55	51	43	34	31	10	43.8	7156
TOT	80	53	49	42	33	30	7	42.9	30090

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	1.1	4.1	12.1	27.6	55.1	89	4292
06&09	.0	.9	4.3	11.2	27.1	56.5	89	4119
12&15	*	1.5	4.7	13.7	27.4	52.7	88	4186
18&21	.0	1.9	6.4	15.2	30.1	46.3	87	3882
TOT	1	210	788	2095	4593	8792	88	16479

ANNUAL

PERIOD: (PRIMARY) 1928-1971
(OVER-ALL) 1869-1971

TABLE 17

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

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	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	3	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	*	.0	.0	10	*	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	*	*	*	*	*	22	*	.1
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.1	.1	*	*	*	*	61	*	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.2	.1	.1	.1	.1	.1	*	.0	199	.2	.6
9/10	.0	.0	.0	.0	.0	.0	.0	*	.2	.4	.3	.3	.2	.2	.1	.1	*	.0	405	.5	1.2
7/8	.0	.0	.0	.0	.0	.0	.0	.1	.8	.6	.7	.5	.5	.4	.3	.1	*	.0	944	1.3	2.6
6	.0	.0	.0	.0	.0	.0	*	.3	.7	.6	.5	.5	.4	.4	.2	*	*	.0	828	1.2	2.3
5	.0	.0	.0	.0	.0	.0	*	.6	1.3	.7	.8	.7	.6	.5	.2	*	*	.0	1312	1.8	3.9
4	.0	.0	.0	.0	.0	.0	.1	1.2	1.3	1.1	.9	.8	.8	.7	.3	*	*	.0	1685	2.3	4.8
3	.0	.0	.0	.0	.0	.0	.2	1.8	1.4	1.1	1.0	.9	1.2	.9	.3	.1	.0	.0	2019	2.5	6.2
2	.0	.0	.0	.0	.0	*	.5	2.5	1.5	1.2	.9	1.1	1.2	.9	.3	*	*	.0	2321	2.8	7.4
1	.0	.0	.0	.0	.0	*	1.0	2.6	1.4	1.0	1.0	1.1	1.2	.8	.3	*	.0	.0	2388	2.3	8.2
0	.0	.0	.0	.0	.0	.1	1.8	2.4	1.4	1.0	.9	.9	1.3	.6	.2	*	.0	.0	2302	1.9	8.6
-1	.0	.0	.0	.0	.0	.2	1.5	1.6	.9	.6	.6	.8	.8	.3	.1	*	.0	.0	1631	1.2	6.3
-2	.0	.0	.0	.0	.0	.4	1.5	1.0	.8	.5	.6	.7	.5	.2	*	*	.0	.0	1321	.8	5.4
-3	.0	.0	.0	.0	*	.6	1.0	.9	.6	.4	.4	.4	.4	.1	*	.0	.0	.0	1006	.5	4.3
-4	.0	.0	.0	.0	*	.8	1.0	.6	.5	.3	.3	.4	.2	.1	.0	.0	.0	.0	884	.4	3.9
-5	.0	.0	.0	.0	.1	.6	.7	.5	.4	.3	.2	.2	.2	*	*	.0	.0	.0	645	.2	2.9
-6	.0	.0	.0	.0	.2	.5	.4	.5	.3	.2	.2	.2	.1	*	*	.0	.0	.0	496	.1	2.4
-7/-8	.0	.0	.0	*	.7	.7	.5	.5	.3	.2	.2	.1	.1	*	*	.0	.0	.0	656	.1	3.2
-9/-10	.0	.0	.0	.2	.5	.5	.4	.3	.1	.1	.1	.1	*	*	.0	.0	.0	.0	436	.1	2.2
-11/-13	.0	.0	*	.4	.5	.3	.2	.2	.1	.1	*	*	*	*	.0	.0	.0	.0	335	.1	1.7
-14/-16	.0	*	.2	.3	.1	*	*	*	*	*	*	*	*	.0	.0	.0	.0	.0	148	*	.8
-17/-19	.0	.1	.1	.1	*	*	*	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	75	.0	.4
-20/-22	.0	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	.0	.2
-23/-25	*	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	*
-26/-30	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL																			22149		
PCT	*	.2	.4	1.1	2.2	4.8	10.8	17.5	14.1	10.5	9.7	9.8	9.5	6.5	2.2	.5	.1	*	100.0	20.3	79.7

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	.1	.0	.0	.0	.8
1-2	.1	1.0	.5	.0	.0	.0	1.5
3-4	*	.5	1.4	.2	.0	.0	2.2
5-6	*	.2	1.3	.4	.1	.0	1.9
7	.0	*	.7	.7	.1	*	1.6
8-9	.0	*	.3	.4	.1	.0	.9
10-11	.0	*	.2	.4	.2	.0	.8
12	.0	.0	.0	.2	.1	*	.3
13-16	.0	.0	*	.3	.2	*	.5
17-19	.0	.0	*	.1	.2	.0	.3
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	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	2.2	4.5	2.7	.9	.1	10.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	.1	.0	.0	.0	.8
1-2	*	.9	.5	.0	.0	.0	1.4
3-4	*	.4	.9	.1	.0	.0	1.5
5-6	*	.1	.9	.1	*	.0	1.2
7	.0	.1	.5	.3	.1	*	.9
8-9	.0	*	.2	.3	.1	.0	.5
10-11	.0	.0	*	.2	*	*	.2
12	.0	.0	.1	.1	*	.0	.2
13-16	.0	.0	.0	.1	.1	.0	.2
17-19	.0	.0	.0	*	*	.0	*
20-22	.0	.0	*	.0	*	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	1.7	2.8	1.0	.3	.1	6.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	*	.0	.0	.0	.6
1-2	.1	.8	.5	.0	.0	.0	1.3
3-4	*	.3	.8	.1	.0	.0	1.3
5-6	.0	.1	.9	.1	.0	.0	1.1
7	.0	*	.4	.2	*	.0	.7
8-9	.0	.0	.1	.2	*	.0	.4
10-11	.0	*	*	.1	*	*	.2
12	.0	.0	.0	*	.1	.0	.1
13-16	.0	.0	.0	.1	*	*	.2
17-19	.0	.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	*	*
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	1.7	2.8	1.0	.3	.1	6.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.1	.0	.0	.0	.6
1-2	.1	1.0	.5	.0	.0	.0	1.6
3-4	*	.4	1.2	.1	.0	.0	1.7
5-6	.0	.1	.9	.2	*	.0	1.2
7	.0	*	.5	.3	*	.0	.8
8-9	.0	.0	.1	.2	.1	.0	.4
10-11	.0	*	.1	.3	.1	.0	.5
12	.0	*	*	.1	*	.0	.1
13-16	.0	.0	*	.1	.1	.0	.2
17-19	.0	.0	.0	.0	*	*	.1
20-22	.0	.0	.0	.0	*	*	*
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	3.3	1.3	.3	*	7.2

PERIOD: (OVER-ALL) 1963-1971 ANNUAL AREA 0004 SE NEWFOUNDLAND COAST 46.9N 51.5W

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	.6	.1	.0	.0	.0	.8
1-2	.2	1.9	1.1	.0	.0	.0	3.2
3-4	*	1.2	2.5	.4	.0	.0	4.1
5-6	.0	.3	1.9	.6	.1	.0	2.8
7	.0	.1	1.0	.6	.0	.0	1.7
8-9	.0	*	.4	.5	.1	.0	.9
10-11	.0	*	.1	.3	.1	*	.5
12	.0	*	*	.2	.1	.0	.3
13-16	.0	.0	*	.3	.2	.0	.5
17-19	.0	*	*	*	*	*	.1
20-22	.0	.0	.0	*	*	*	.1
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	4.2	7.0	2.8	.6	.1	15.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	.1	.0	.0	.0	1.1
1-2	.2	2.2	1.1	.0	.0	.0	3.4
3-4	*	1.5	4.1	.4	.0	.0	6.0
5-6	*	.5	3.0	1.0	.1	.0	4.6
7	.0	.1	1.6	1.2	.1	*	3.0
8-9	.0	*	.7	.9	.1	*	1.7
10-11	.0	*	.4	.7	.2	*	1.3
12	.0	*	.1	.2	.1	*	.5
13-16	.0	.0	*	.5	.3	*	.8
17-19	.0	.0	*	.1	.1	*	.2
20-22	.0	.0	.0	*	.1	.1	.2
23-25	.0	.0	.0	.0	*	*	.1
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	.4	5.2	11.2	4.9	1.0	.2	22.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	*	.0	.0	.0	.8
1-2	*	1.4	.7	.0	.0	.0	2.1
3-4	*	1.1	2.7	.4	.0	.0	4.2
5-6	*	.3	1.7	.5	.1	.0	2.7
7	.0	*	1.1	.8	.1	*	2.1
8-9	.0	*	.6	.7	.1	*	1.5
10-11	.0	.0	.3	.5	.2	.0	1.1
12	.0	.0	*	.2	.2	*	.5
13-16	.0	.0	.1	.5	.4	.1	1.1
17-19	.0	.0	.0	.1	.2	*	.3
20-22	.0	.0	.0	*	.1	.1	.2
23-25	.0	.0	.0	*	.1	*	.2
26-32	.0	.0	.0	.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	.2	3.5	7.3	3.8	1.7	.3	16.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.4	.1	.0	.0	.0	.6	
1-2	*	1.0	.5	.0	.0	.0	1.6	
3-4	*	.5	1.5	.2	.0	.0	2.2	
5-6	.0	.1	1.4	.8	*	.0	2.3	
7	.0	*	.7	.7	.1	.0	1.5	
8-9	.0	*	.5	.4	.2	*	1.1	
10-11	.0	*	.2	.5	.1	*	.9	
12	.0	*	*	.3	.2	*	.5	
13-16	.0	.0	.1	.4	.3	*	.8	
17-19	.0	.0	*	.1	.1	.1	.2	
20-22	.0	.0	.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	2.1	4.9	3.4	1.0	.2	11.8	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	3.7	4.5	.5	.0	.0	.0	8.7	
1-2	1.0	10.1	5.1	.0	.0	.0	16.2	
3-4	.2	6.0	15.1	1.9	.0	.0	23.2	
5-6	.1	1.7	11.9	3.7	.3	.0	17.7	
7	*	.4	6.6	4.8	.5	*	12.3	
8-9	.0	.1	2.9	3.6	.7	.1	7.4	
10-11	.0	.1	1.2	3.1	1.0	.1	5.4	
12	.0	.1	.3	1.4	.7	.1	2.5	
13-16	.0	.0	.2	2.2	1.6	.2	4.2	
17-19	.0	*	.1	.4	.7	.1	1.3	
20-22	.0	.0	*	.1	.4	.2	.6	
23-25	.0	.0	.0	*	.2	*	.3	
26-32	.0	.0	.0	.0	.1	.2	.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	4.9	22.9	43.9	21.1	6.2	.9	100.0	8411

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	1.0	6.2	11.3	6.6	3.3	1.3	.5	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5182	4
6-7	*	.7	4.6	7.2	6.9	3.7	2.5	1.2	1.0	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	4672	7
8-9	.0	.2	1.1	2.2	3.0	2.8	2.2	1.4	2.1	.5	.3	.1	*	.0	.0	.0	.0	.0	.0	2550	9
10-11	.0	.1	.3	.6	1.0	.8	1.0	.8	.9	.4	.2	.1	.1	*	.0	.0	.0	.0	.0	1006	10
12-13	.0	.0	.2	.2	.2	.2	.2	.3	.3	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	312	**
>13	.0	.0	.0	.1	.1	.1	.3	.1	.2	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0/	12
INDET	2.2	2.3	3.2	2.7	2.4	1.3	.8	.3	.4	.1	*	*	*	.0	.0	.0	.0	.0	.0	2684	5
TOTAL PCT	3.3	9.5	20.6	19.5	16.8	10.3	7.5	4.3	5.3	1.3	.8	.4	.3	*	.0	.0	.0	.0	.0	16553 100.0	6

PERIOD: (PRIMARY) 1928-1971
(OVER-ALL) 1869-1971

TABLE 20

AREA 0004 SE NEWFOUNDLAND COAST
46.9N 51.5W

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

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	3	*
67/68	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	9	*
65/66	.0	.0	.0	.0	.0	.0	.1	.8	.2	.0	.0	.0	26	.1
63/64	.0	.0	.0	.0	.0	.0	.4	3.0	.8	.1	.0	.0	109	.4
61/62	.0	.0	.0	.0	.0	.0	.3	7.6	2.6	.5	*	.0	276	1.0
59/60	.0	.0	.0	.0	.0	*	1.0	11.6	7.9	1.1	*	*	541	2.0
57/58	.0	.0	.0	.0	.0	.2	2.9	18.9	13.2	2.0	.1	.1	929	3.5
55/56	.0	.0	.0	.0	.0	.2	8.7	22.5	21.3	3.8	.2	.1	1407	5.3
53/54	.1	.0	.0	.0	*	.4	11.0	18.1	19.1	8.3	.2	*	1412	5.3
51/52	.1	.1	.0	.0	*	.5	19.4	9.0	16.8	13.5	.9	*	1390	5.2
49/50	.1	.1	.1	.2	.2	1.7	17.3	4.9	10.0	17.6	3.7	.3	1382	5.2
47/48	.2	.1	.1	.1	.2	3.8	17.7	2.2	5.0	18.7	7.9	.5	1411	5.3
45/46	.3	.4	.2	.5	.8	9.5	14.7	.8	1.8	16.8	14.4	3.0	1620	6.1
43/44	.8	.4	.6	.3	1.6	13.2	7.6	.1	.6	10.2	16.2	6.3	1511	5.7
41/42	1.9	1.0	.7	1.2	4.2	24.1	2.2	.1	.4	5.2	20.4	10.2	1918	7.2
39/40	3.6	1.2	1.8	2.8	11.2	29.2	.5	*	*	1.9	17.0	13.7	2063	7.8
37/38	7.3	4.4	2.0	5.4	20.4	16.2	.3	.0	.0	.4	11.1	22.3	2168	8.2
35/36	18.0	10.1	6.7	14.2	27.4	3.7	.0	.0	.0	.1	5.5	20.9	2228	8.4
33/34	28.4	24.1	20.7	29.5	21.8	.9	.0	.0	.0	.1	1.7	13.6	2517	9.5
31/32	25.6	32.0	38.1	30.9	10.7	.2	.0	.0	.0	.0	.4	6.7	2321	8.7
29/30	11.6	20.8	25.5	13.4	1.5	.0	.0	.0	.0	.0	.1	1.9	1125	4.2
27/28	2.1	5.3	3.3	1.4	*	.0	.0	.0	.0	.0	.0	.3	190	.7
<27	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	*
TOTAL	1957	1546	1253	1286	2611	3259	2267	2489	2512	2592	2516	2271	26559	100.0
MEAN	33.6	32.4	32.1	33.2	35.9	41.1	49.6	55.8	54.0	48.3	42.0	37.4	41.2	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1009	1011	1010	1010	1011	1011	1009	1011	1010	1896
FEB	1008	1008	1007	1009	1009	1009	1008	1008	1008	1642
MAR	1011	1011	1011	1008	1010	1009	1010	1009	1010	1397
APR	1012	1011	1011	1011	1011	1013	1011	1013	1011	1689
MAY	1015	1015	1015	1015	1015	1016	1014	1015	1015	2680
JUN	1014	1013	1014	1013	1014	1014	1014	1014	1014	3288
JUL	1016	1016	1016	1016	1016	1017	1016	1016	1016	2106
AUG	1015	1015	1015	1015	1015	1015	1015	1015	1015	2304
SEP	1016	1018	1016	1017	1016	1015	1016	1016	1016	2274
OCT	1015	1015	1014	1013	1015	1014	1014	1014	1014	2276
NOV	1016	1015	1014	1013	1015	1014	1015	1014	1015	2252
DEC	1011	1010	1011	1010	1011	1010	1010	1013	1011	2111
ANN	1013	1013	1013	1013	1013	1013	1013	1013	1013	25915
MAS	5108	1349	4837	1418	5464	1350	5219	1168		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	964	973	984	1001	1011	1019	1030	1035	1040
FEB	958	972	986	999	1009	1018	1027	1033	1045
MAR	958	971	986	1001	1012	1020	1031	1034	1045
APR	974	983	990	1004	1012	1019	1029	1034	1040
MAY	974	991	1000	1010	1018	1020	1028	1032	1038
JUN	984	993	1001	1010	1014	1019	1025	1029	1035
JUL	997	1001	1005	1012	1016	1020	1026	1030	1034
AUG	988	997	1004	1011	1016	1020	1025	1028	1033
SEP	982	996	1002	1011	1017	1021	1027	1031	1035
OCT	978	990	997	1008	1015	1022	1029	1034	1039
NOV	964	977	993	1007	1016	1024	1033	1037	1045
DEC	966	978	987	1003	1012	1019	1030	1035	1039

JANUARY

PERIOD: (PRIMARY) 1945-1971
(OVER-ALL) 1870-1971

AREA 0005 PLACENTIA BAY SOUTH
45.0N 54.3W

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 NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.3	1.9	2.0	.0	13.5	1.3	.0	20.2	1.8	.0	5.0	.0	.0	.3		72.7
NE	7.1	.9	2.6	.0	17.5	.6	.0	27.1	3.9	.0	7.4	.0	.6	.0		60.9
E	15.1	.6	4.7	.5	16.8	.6	.0	33.8	1.9	.0	7.9	1.1	.6	.0		54.7
SE	14.8	2.8	8.3	.7	10.4	.0	.0	35.4	3.8	.0	14.9	.3	.0	.0		43.5
S	24.4	1.2	5.6	.0	10.0	.0	.0	39.5	3.4	.0	8.1	1.7	.5	.0		48.9
SW	9.0	1.2	1.3	.7	12.9	.4	.3	21.4	5.1	.1	8.2	.3	.8	.3		63.8
W	1.4	.5	.9	.3	17.2	.3	.3	20.1	8.3	.3	2.8	.3	.6	.2		67.6
NW	1.3	.3	1.6	.3	17.0	.2	.1	20.4	8.4	.0	2.6	.5	.7	.5		66.8
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	15.4	.0	.0	.0		84.6
TOT PCT	6.5	1.0	2.6	.3	14.8	.4	.1	24.6	5.6	.1	5.8	.5	.5	.2		62.0
TOT OBS:	2337															

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 NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00E03	5.6	.2	2.1	.5	14.7	.3	.0	23.9	4.6	.0	6.6	.3	.9	.0		63.7
06E09	6.2	1.2	2.7	.5	14.7	.2	.2	24.2	4.1	.0	4.4	.7	.0	.4		66.2
12E15	5.8	1.1	2.7	.2	15.9	1.1	.0	25.5	5.5	.2	4.6	.2	.4	.2		63.5
18E21	7.3	1.6	3.0	.0	13.6	.0	.3	25.0	8.4	.2	7.3	.7	.7	.3		57.3
TOT PCT	6.5	1.0	2.6	.3	14.7	.4	.1	24.6	5.6	.1	5.8	.5	.5	.2		62.7
TOT OBS:	2354															

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	4.1	2.7	.6	.0		9.7	18.0	9.1	9.7	11.8	9.6	9.8	8.4	9.3	8.2
NE	.2	1.3	2.8	2.0	.5	.0		6.9	18.6	6.4	9.7	6.4	6.6	6.5	5.4	7.4	8.0
E	.2	1.3	2.3	1.6	.7	.1		6.2	19.5	5.6	4.4	4.5	6.8	7.2	4.4	7.8	9.2
SE	.1	1.6	3.1	2.1	.6	.1		7.6	19.1	9.5	8.9	6.1	5.7	7.0	9.9	6.6	7.4
S	.2	1.9	3.8	2.9	.9	.1		9.8	19.8	10.1	8.8	9.2	12.4	9.1	9.9	9.2	12.2
SW	.2	2.0	6.3	3.3	.6	.3		12.7	19.2	13.6	10.1	12.2	13.5	11.6	18.6	11.0	15.3
W	.3	3.4	9.5	10.5	4.1	.3		28.0	22.7	26.3	31.1	26.4	27.2	28.7	27.6	31.7	24.5
NW	.3	3.1	7.6	9.2	2.2	.2		18.6	20.4	19.3	17.3	21.3	18.2	20.2	15.8	16.7	14.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.5							.5	.0	.2	.0	2.1	.0	.0	.0	.2	1.0
TOT OBS	60	461	1100	844	285	29	2779		20.2	566	227	484	170	907	176	451	198
TOT PCT	2.2	16.6	39.6	30.4	10.3	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	1.0	3.7	3.5	1.5	.1		9.7	18.0	9.3	11.2	9.4	9.0
NE	.7	2.3	2.8	1.1	.1		6.9	18.6	7.3	6.4	6.2	7.6
E	.5	2.1	2.4	1.0	.3		6.2	19.5	5.3	5.1	6.5	8.2
SE	.6	2.8	2.8	1.3	.1		7.6	19.1	9.3	6.0	7.8	6.9
S	.8	3.4	3.3	1.9	.4		9.8	19.8	9.7	10.0	9.3	10.1
SW	.8	4.5	5.3	1.7	.4		12.7	19.2	12.6	12.6	13.4	12.3
W	1.2	7.3	10.3	8.2	1.0		28.0	22.7	27.6	26.6	28.4	29.5
NW	1.2	6.1	7.0	3.7	.6		18.6	20.4	18.7	20.5	19.0	15.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.5						.5	.0	.1	1.5	.0	.5
TOT OBS	199	893	1039	564	84	2779		20.2	793	694	683	649
TOT PCT	7.2	32.1	37.4	20.3	3.0		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1945-1971
(OVER-ALL) 1878-1971

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.3W

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	2.3	17.8	39.8	29.6	9.2	1.1	19.8	100.0	793
06&09	1.5	1.1	16.5	40.2	31.5	8.4	.8	19.7	100.0	654
12&15	.0	2.0	17.6	39.7	30.2	9.5	1.0	19.9	100.0	683
18&21	.9	1.1	14.2	38.5	30.4	14.2	1.2	21.6	100.0	649
TOT	14	46	481	1100	844	285	29	20.2		2779
PCT	.5	1.7	16.6	39.6	30.4	10.3	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	1.1	.9	2.6	6.0		6.5
NE	1.0	.5	1.3	4.8		6.5
E	.6	.1	.9	5.4		7.0
SE	.1	.2	.9	6.2		7.5
S	.3	.3	1.6	6.7		7.3
SW	.8	.7	2.7	7.7		6.8
W	2.1	1.8	9.8	14.8		6.6
NW	1.7	1.8	6.4	7.8		6.3
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.3	.3		7.1
TOT OBS	145	119	500	1124	1888	6.7
TOT PCT	7.7	6.3	26.5	59.5	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	.5	.0	.2	1.2	3.1	2.1	.5	.1	.2	.2	2.5	
NE	.7	.0	.2	1.0	2.0	1.4	.3	.1	.0	.2	1.9	
E	1.0	.2	.4	.7	2.2	.8	.3	.0	.1	.1	1.3	
SE	1.2	*	.7	1.0	1.9	1.3	.3	.1	.1	.1	.8	
S	1.3	.1	.3	.8	3.0	1.6	.2	.1	.1	.2	1.1	
SW	.9	.0	.3	1.0	3.8	2.7	.4	.1	.1	.1	2.4	
W	.6	.2	.7	3.1	8.7	6.9	1.8	.4	.2	.1	5.8	
NW	.3	.1	.3	1.8	5.2	3.9	.6	.3	.3	.1	4.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.0	.1	.2	.1	.0	.1	.1	
TOT OBS	122	11	62	201	565	390	85	25	18	21	388	1888
TOT PCT	8.5	.8	3.3	10.6	29.9	20.7	4.5	1.3	1.0	1.1	20.6	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	1.8	2.0	2.0	2.1	2.1	2.1	2.1	2.1
* OR >5000	2.1	3.2	3.3	3.3	3.4	3.5	3.5	3.5
* OR >3500	4.5	7.4	7.6	7.7	7.9	8.0	8.0	8.0
* OR >2000	14.2	26.5	27.7	28.1	28.3	28.7	28.7	28.7
* OR >1000	26.9	51.1	55.7	57.1	57.7	58.2	58.3	58.3
* OR >600	31.2	58.6	64.9	67.1	68.2	68.8	68.9	69.0
* OR >300	32.0	60.5	67.4	69.9	71.2	72.1	72.3	72.4
* OR >150	32.0	60.7	67.7	70.2	71.8	72.7	72.9	73.0
* OR > 0	32.0	61.1	68.8	71.9	74.6	77.1	79.0	79.2
TOTAL	602	1152	1293	1355	1405	1453	1489	1493

TOTAL NUMBER OF OBS: 1884 PCT FREQ NH <5/8: 20.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.6	3.4	4.5	4.4	4.0	5.4	10.9	10.8	47.2	5.6	2036

JANUARY

PERIOD: (PRIMARY) 1945-1971
(OVER-ALL) 1878-1971

TABLE 8

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.3W

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	.1	.3	.4	.2	.5	.3	.2	.3	.0	.0	2.3	
<1/2	NO PCP	.1	.3	.2	.7	.4	.5	.2	*	.0	*	2.6	
	TOT %	.3	.6	.7	1.0	.9	.7	.4	.3	.0	*	4.8	
	PCP	.3	.2	.2	.3	.3	.1	.3	.2	.0	.0	2.0	
1/2<1	NO PCP	*	.1	.1	.2	.2	.3	.1	*	.0	.0	1.0	
	TOT %	.3	.3	.3	.4	.5	.4	.4	.3	.0	.0	3.0	
	PCP	.2	.3	.4	.5	.5	.2	.4	.3	.0	.0	2.7	
1<2	NO PCP	*	.1	.1	.1	.2	.1	.2	.1	.0	.0	.9	
	TOT %	.3	.4	.6	.5	.8	.9	.5	.3	.0	.0	3.7	
	PCP	.6	.3	.6	.9	1.1	.7	1.0	.7	.0	.0	5.8	
2<5	NO PCP	.2	.2	.3	.2	.4	.6	1.0	.2	.0	*	3.2	
	TOT %	.8	.6	1.0	1.1	1.4	1.9	1.9	.9	.0	*	9.0	
	PCP	.6	.7	.5	.8	1.2	1.1	2.7	1.8	.0	.0	9.3	
5<10	NO PCP	2.6	1.9	2.0	1.4	1.8	4.6	7.9	3.9	.0	.2	26.4	
	TOT %	3.2	2.6	2.5	2.3	3.0	5.7	10.5	5.8	.0	.2	35.8	
	PCP	.2	.1	*	.1	.2	.3	1.3	.4	.0	.0	2.7	
10+	NO PCP	5.1	2.7	1.7	2.2	2.6	3.7	13.0	9.7	.0	.3	41.0	
	TOT %	5.3	2.8	1.7	2.3	2.8	4.0	14.3	10.2	.0	.3	43.7	
	TOT OBS												2334
	TOT PCT	10.1	7.3	6.7	7.6	9.4	12.5	28.1	17.7	.0	.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
	0-3	*	.0	.0	*	*	.0	.0	.0	.0	*	.1	
<1/2	4-10	.1	.1	.0	.2	.1	.1	.1	*	.0		.7	
	11-21	*	.2	.3	.4	.4	.4	.2	.1	.0		2.0	
	22+	.1	.2	.3	.4	.4	.3	.1	.1	.0		2.0	
	TOT %	.2	.6	.6	1.0	1.0	.8	.4	.3	.0	*	4.8	
	0-3	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.1	
1/2<1	4-10	.1	.1	.0	.1	.1	.0	.1	.1	.0		.5	
	11-21	.1	*	*	.2	.1	.1	.1	.2	.0		.9	
	22+	.1	.1	.2	.2	.3	.3	.2	*	.0		1.5	
	TOT %	.3	.3	.3	.4	.5	.4	.4	.3	.0	.0	2.9	
	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
1<2	4-10	*	*	.1	*	.1	.1	.1	.1	.0		.7	
	11-21	.1	.2	.2	.3	.3	.2	.2	.1	.0		1.4	
	22+	.1	.1	.2	.2	.4	.1	.4	.2	.0		1.7	
	TOT %	.3	.4	.5	.6	.8	.4	.7	.3	.0	.0	3.9	
	0-3	.0	.0	.0	*	*	.0	.0	.0	.0	*	.1	
2<5	4-10	.2	.1	.2	.3	.2	.3	.4	.1	.0		1.7	
	11-21	.2	.3	.2	.3	.5	.7	.8	.3	.0		2.9	
	22+	.4	.2	.5	.5	.7	.4	1.2	.6	.0		4.5	
	TOT %	.8	.6	.9	1.0	1.4	1.3	2.1	1.0	.0	*	9.2	
	0-3	.1	.1	.1	.0	.0	.1	.1	*	.0	.2	.7	
5<10	4-10	.3	.4	.3	.3	.4	.7	.9	.7	.0		4.0	
	11-21	1.4	.7	1.0	1.0	1.1	2.8	2.6	2.3	.0		12.9	
	22+	1.2	1.3	1.0	.9	1.4	1.9	6.5	2.6	.0		16.7	
	TOT %	3.0	2.5	2.4	2.1	2.9	5.5	10.1	5.6	.0	.2	34.4	
	0-3	*	.1	.1	.1	*	.1	.1	.3	.0	.3	1.0	
10+	4-10	1.3	.7	.7	.8	.9	.8	1.6	2.0	.0		9.0	
	11-21	2.4	1.4	.7	1.0	1.3	2.1	5.7	4.7	.0		19.3	
	22+	1.4	.6	.2	.6	.7	1.3	6.9	3.9	.0		15.6	
	TOT %	5.1	2.8	1.7	2.4	2.9	4.3	14.4	10.9	.0	.3	44.9	
	TOT OBS												2575
	TOT PCT	9.8	7.0	6.3	7.6	9.5	12.7	28.2	18.4	.0	.5	100.0	

JANUARY

PERIOD: (PRIMARY) 1965-1971
(OVER-ALL) 1878-1971

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.3W

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	7.8	.8	3.3	9.6	29.9	21.9	3.5	1.2	1.0	.8	79.8	20.2	511
06&09	8.0	.5	2.3	9.0	27.6	22.3	3.9	1.4	1.1	1.1	77.2	22.8	435
12&15	3.7	.7	3.7	12.6	29.8	20.3	5.7	1.7	.7	1.7	80.6	19.4	459
18&21	5.9	.4	3.9	11.0	30.8	17.9	4.7	1.0	1.0	1.0	77.6	22.4	509
TOT	122	11	64	202	567	393	85	25	18	22	1509	405	1914
PCT	6.4	.6	3.3	10.6	29.6	20.5	4.4	1.3	.9	1.1	78.8	21.2	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	5.6	3.2	2.9	8.4	37.3	42.6	727
06&09	3.9	2.8	3.7	7.5	35.2	46.9	614
12&15	3.3	2.7	4.8	9.5	33.9	45.8	629
18&21	6.1	2.7	4.2	11.7	30.7	44.6	623
TOT	124	76	100	240	891	1164	2593
PCT	4.8	2.9	3.9	9.3	34.4	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	7.6	13.9	29.3	50.8	19.9	502
06&09	8.0	13.0	25.0	52.8	22.2	424
12&15	3.8	10.2	29.8	52.3	17.9	453
18&21	5.9	11.7	30.9	48.7	20.4	505
TOT	119	230	544	962	378	1884
PCT	6.3	12.2	28.9	51.1	20.1	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
50/54	.0	.0	.0	.0	.0	.0	.2	.0	3	.2
45/49	.1	.0	.0	.1	.0	.3	.2	.8	24	1.5
40/44	.1	.1	.0	.2	.2	.6	1.5	5.4	131	8.1
35/39	.0	.0	.1	.1	1.6	3.8	8.4	17.0	501	31.0
30/34	.0	.1	.4	.6	1.8	5.6	10.7	14.6	543	33.6
25/29	.0	.1	.1	.2	1.6	3.3	3.3	6.6	246	15.2
20/24	.0	.0	.1	.3	.6	1.3	2.1	2.7	113	7.0
15/19	.0	.0	.0	.1	.5	.2	1.3	.7	44	2.7
10/14	.0	.0	.0	.0	.2	.0	.4	.1	10	.6
TOTAL	2	4	11	25	105	244	452	772	1615	100.0
PCT	.1	.2	.7	1.5	6.5	15.1	28.0	47.8		

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	.1	.3	.5	.3	.1	.1	.0	.1
	.2	.4	.6	1.1	2.6	2.0	.9	.4	.0	.0
	3.5	3.6	2.6	3.4	3.1	4.9	6.9	2.8	.0	.2
	3.4	2.1	2.5	2.6	2.2	3.9	11.4	5.3	.0	.2
	1.4	.9	.9	.5	.6	1.1	5.2	4.8	.0	.0
	.9	.3	.3	.1	.2	.3	2.4	2.4	.0	.0
	.5	.3	.0	.0	.0	.0	1.0	.9	.0	.0
	.2	.0	.0	.0	.0	.0	.1	.3	.0	.0
	10.3	7.6	7.0	7.8	9.3	12.5	27.9	17.0	.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	50	46	41	33	20	16	11	31.9	781
06&09	50	46	41	33	21	15	12	32.2	650
12&15	55	46	41	33	21	14	11	32.3	677
18&21	50	46	42	34	21	17	11	32.8	636
TOT	55	46	41	33	21	16	11	32.3	2744

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	6.6	[illegible]	26.0	48.4	87	469
06&09	.5	2.9	5.6	[illegible]	30.6	47.1	86	408
12&15	.0	1.1	6.9	[illegible]	24.6	51.6	88	378
18&21	.0	3.2	7.0	[illegible]	30.8	44.1	86	370
TOT	2	40	106	246	454	777	87	1625

JANUARY

PERIOD: (PRIMARY) 1945-1971
(OVER-ALL) 1878-1971

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.3W

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	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2	.1	10	.0	.5
9/10	.0	.0	.0	.0	.0	.0	.0	.1	.4	.4	.1	17	.1	.8
7/8	.0	.0	.0	.0	.0	.0	.2	.8	1.1	.3	.3	51	.2	2.4
6	.0	.0	.0	.0	.0	.0	.3	.9	.4	.1	.1	33	.3	1.4
5	.0	.0	.0	.0	.0	.0	.6	2.2	.9	.1	.0	73	.7	3.0
4	.0	.0	.0	.0	.0	.0	1.5	2.1	.6	.1	.0	82	.5	3.6
3	.0	.0	.0	.0	.0	.1	2.3	2.3	.4	.2	.0	102	.7	4.3
2	.0	.0	.0	.0	.0	.9	3.9	1.9	.3	.0	.0	138	.9	6.0
1	.0	.0	.0	.0	.0	.5	4.8	1.9	.1	.1	.0	146	.8	6.5
0	.0	.0	.0	.0	.0	1.4	5.6	1.4	.3	.0	.0	171	.4	8.2
-1	.0	.0	.0	.0	.2	2.3	3.7	.5	.1	.0	.0	132	.3	6.4
-2	.0	.0	.0	.0	.3	2.3	3.5	.8	.2	.0	.0	139	.2	6.8
-3	.0	.0	.0	.0	.5	3.3	2.0	.6	.0	.0	.0	125	.3	6.0
-4	.0	.0	.0	.1	1.1	2.5	1.0	.2	.1	.0	.0	97	.0	4.9
-5	.0	.0	.0	.1	1.3	2.8	1.0	.2	.0	.0	.0	104	.2	5.1
-6	.0	.0	.0	.5	1.2	2.0	1.1	.0	.0	.0	.0	93	.1	4.6
-7/-8	.0	.0	.0	1.2	3.7	1.8	.8	.1	.0	.0	.0	149	.2	7.3
-9/-10	.0	.0	.2	2.1	2.2	1.3	.4	.1	.0	.0	.0	123	.1	6.1
-11/-13	.0	.0	.8	2.5	1.2	1.0	.1	.0	.0	.0	.0	112	.1	5.5
-14/-16	.0	.4	1.4	.8	.1	.3	.1	.0	.0	.0	.0	59	.0	3.0
-17/-19	.1	.6	.3	.0	.1	.0	.1	.0	.0	.0	.0	20	.0	1.0
-20/-22	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.3
-23/-25	.1	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	6	.0	.3
-26/-30	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	5	22	55	144	233	446	647	308	97	24	9	1990	114	1876
PCT	.3	1.1	2.8	7.2	11.7	22.4	32.5	15.5	4.9	1.2	.5	100.0	5.7	94.3

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	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.4	.2	.0	.0	.0	.6
3-4	.0	.2	2.8	.7	.0	.0	3.8
5-6	.0	.1	1.6	.5	.0	.0	2.3
7	.0	.0	1.1	1.1	.3	.0	2.5
8-9	.0	.0	.1	.5	.0	.0	.7
10-11	.0	.0	.3	.8	.3	.0	1.3
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.1	.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	1.2	6.2	4.4	.5	.0	12.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.0	.0	.0	.0	.0	*
1-2	.0	*	.3	.0	.0	.0	.4
3-4	.0	.6	1.3	.1	.0	.0	2.1
5-6	.0	.0	1.2	.3	*	.0	1.5
7	.0	.0	.6	.7	.2	.0	1.5
8-9	.0	.1	.3	.6	.1	.0	1.2
10-11	.0	.0	.0	.5	.1	.0	.7
12	.0	.0	.1	.6	.1	.0	.9
13-16	.0	.0	.1	.7	.3	.0	1.1
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.1	.0	.1
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	*	.8	4.0	3.6	1.4	.0	9.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.3
1-2	.0	.4	.1	.0	.0	.0	.5
3-4	.0	.1	1.2	.1	.0	.0	1.5
5-6	.0	.0	.8	.4	.1	.0	1.3
7	.0	.0	.7	.8	.1	.0	1.6
8-9	.0	.0	.0	.3	.1	.0	.4
10-11	.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.1	.6	.0	.7
13-16	.0	.0	.0	.1	.1	.0	.2
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	.1	.7	2.8	1.9	1.7	.0	7.2

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	.8	.3	.0	.0	.0	1.2
3-4	.0	.6	1.7	.1	.0	.0	2.4
5-6	.0	.0	1.1	.1	.0	.0	1.2
7	.0	.0	.5	.3	.0	.0	.8
8-9	.0	.0	.3	.1	.1	.0	.6
10-11	.0	.0	.0	.1	.1	.0	.3
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	*	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	3.9	1.0	.3	.0	6.8

PERIOD: (OVER-ALL) 1963-1971

JANUARY

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.3W

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	.0	.0	.0	.0	.1
1-2	.0	.9	.3	.0	.0	.0	1.1
3-4	.0	.4	1.3	.0	.0	.0	1.8
5-6	.0	.1	.6	.9	.1	.0	1.8
7	.0	.0	.5	.5	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.1	.1	.3	.0	.0	.6
12	.0	.0	.0	.3	.1	.0	.4
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	.1	1.6	2.8	1.9	.4	.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	.9	.7	.0	.0	.0	1.6
3-4	.0	.3	2.0	.0	.0	.0	2.3
5-6	.0	.3	.7	.6	.0	.0	1.7
7	.0	.0	1.8	.4	.0	.0	2.2
8-9	.0	.0	.7	.2	.0	.0	.9
10-11	.0	.0	.3	.7	*	.0	1.1
12	.0	.0	.0	.3	.2	.0	.5
13-16	.0	.0	.0	.3	*	.1	.5
17-19	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	.0	.1	.3	.4
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.2	.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	.0	1.5	6.4	2.6	.4	.6	11.6

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	.8	.5	.0	.0	.0	1.3
3-4	.1	.6	2.1	.7	.0	.0	3.6
5-6	.0	.3	2.8	1.2	.0	.0	4.3
7	.0	.0	1.5	2.2	.6	.0	4.2
8-9	.0	.0	1.0	1.9	.9	.0	3.8
10-11	.0	.0	.4	1.4	.7	.0	2.5
12	.0	.0	.0	2.0	.5	.0	2.5
13-16	.0	.0	.0	1.6	.9	.0	2.5
17-19	.0	.0	.0	.4	.3	.0	.7
20-22	.0	.0	.0	.1	.3	.0	.4
23-25	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.1	.2	.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	1.9	8.5	11.5	4.5	.2	26.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.1	.0	.0	.0	.0	.4	
1-2	.0	1.0	.5	.0	.0	.0	1.5	
3-4	*	.4	.6	*	.0	.0	1.1	
5-6	.0	.3	2.3	1.1	.0	.0	3.7	
7	.0	.0	1.1	1.7	.2	.0	3.0	
8-9	.0	.0	.7	1.5	.3	.0	2.6	
10-11	.0	.0	*	1.0	.4	.0	1.5	
12	.0	.0	.3	1.0	.3	.0	1.6	
13-16	.0	.0	.1	.7	.7	.0	1.6	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	*	.0	.1	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	.3	1.8	5.8	7.2	2.4	.3	17.8	99.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.0	1.3	.0	.0	.0	.0	2.4	
1-2	.1	5.2	3.0	.0	.0	.0	8.4	
3-4	.1	3.3	13.2	1.9	.0	.0	18.5	
5-6	.0	1.2	11.2	5.1	.3	.0	17.8	
7	.0	.0	7.8	7.6	1.3	.0	16.7	
8-9	.0	.1	3.3	5.2	1.6	.0	10.3	
10-11	.0	.1	1.2	4.9	1.9	.0	8.2	
12	.0	.0	.4	4.6	1.9	.0	7.0	
13-16	.0	.0	.3	3.9	2.1	.1	6.4	
17-19	.0	.0	.0	.6	1.2	.0	1.8	
20-22	.0	.0	.0	.1	.6	.4	1.2	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.4	.6	1.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								669
TOT PCT	1.3	11.4	40.4	34.1	11.7	1.2	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	4.6	8.1	4.9	3.4	.7	1.0	.2	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	374	5
6-7	.1	.2	4.1	6.9	7.9	5.0	3.7	1.6	2.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	512	7
8-9	.1	.0	1.0	1.7	4.1	3.2	3.0	2.9	3.2	.8	.4	.1	.1	.0	.0	.0	.0	.0	.0	331	10
10-11	.0	.0	.1	.4	.7	1.1	1.2	.9	1.7	.6	.3	.2	.2	.0	.0	.0	.0	.0	.0	121	12
12-13	.0	.0	.3	.1	.3	.1	.2	.2	.4	.4	.6	.1	.2	.0	.0	.0	.0	.0	.0	47	14
>13	.0	.0	.0	.1	.1	.1	.1	.1	.3	.2	.4	.0	.4	.0	.0	.0	.0	.0	.0	28	17
UNDET	.6	1.0	2.8	1.8	2.1	1.2	.8	.7	.5	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	189	6
TOTAL	14	93	262	254	297	183	162	109	137	97	32	7	14	1	0	0	0	0	0	1602	8
PCT	.9	5.8	16.4	15.9	18.5	11.4	10.1	6.8	8.6	2.3	2.0	.4	.9	.1	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1952-1971
(OVER-ALL) 1877-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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	.6	.2	.5	10.1	.8	.0	14.4	4.1	.0	4.2	.0	.4		.0	76.8
NE	6.2	.2	3.8	.2	8.3	1.5	.0	19.2	7.4	.0	7.5	.7	.0		.0	65.1
E	16.1	1.9	5.9	.5	11.1	.5	.0	32.5	4.6	.0	10.4	.0	.0		.0	52.5
SE	13.2	2.8	3.4	1.2	9.8	.2	.0	28.5	5.7	.0	17.5	1.2	.0		.0	47.0
S	13.0	1.7	3.6	.0	10.4	.0	.0	27.4	4.3	.0	14.6	.0	1.4		.0	52.3
SW	4.0	1.0	3.8	.0	14.5	.5	.2	22.6	6.2	.0	7.0	.5	.5		.0	63.2
W	2.1	1.1	.2	.1	23.7	.0	.3	26.5	8.4	.0	1.9	.0	.0		.0	63.2
NW	.5	1.2	.0	.4	16.4	.0	.0	17.3	4.8	.0	1.7	.0	1.4		.0	74.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	12.5	.0	.0	12.5	.0	.0	50.0	.0	.0		.0	37.5
TOT PCT	5.2	1.2	1.8	.3	15.5	.3	.1	23.1	6.1	.0	6.2	.2	.5		.0	64.0
TOT OBS:	1957															

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	6.9	2.1	1.6	.3	14.9	.2	.2	24.6	5.5	.0	5.2	.3	.3		.0	64.0
06&09	4.9	1.2	1.6	.2	17.2	.4	.0	24.1	6.7	.0	4.9	.2	.4		.0	63.7
12&15	3.6	.7	2.0	.7	12.2	.0	.0	18.6	5.9	.0	8.1	.5	.9		.0	66.1
18&21	4.9	.7	2.0	.0	16.9	.7	.2	23.8	6.2	.0	7.3	.0	.2		.0	62.4
TOT PCT	5.2	1.2	1.8	.3	15.3	.3	.1	22.9	6.1	.0	6.3	.3	.5		.0	64.0
TOT OBS:	1976															

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	9.5	2.3	.4	.1		10.5	17.5	10.8	8.5	11.5	10.9	12.3	8.0	9.9	6.3
NE	*	1.4	3.6	2.0	.4	.2		7.6	18.9	7.7	7.5	7.0	9.2	8.5	8.5	7.5	5.1
E	.1	1.3	3.3	2.7	.5	.0		7.8	19.5	7.5	7.5	8.6	9.6	5.9	6.1	8.7	10.2
SE	.1	1.6	3.0	2.5	.7	.1		7.9	20.1	7.9	9.0	6.8	8.8	9.3	9.8	6.7	7.2
S	.2	1.7	3.0	1.9	.6	.1		7.4	18.6	7.0	6.7	9.6	3.7	6.3	7.0	7.6	9.2
SW	.1	1.8	4.4	3.2	1.1	.1		10.7	20.4	10.2	11.2	11.8	11.9	12.1	13.5	8.3	7.2
W	.2	2.8	9.3	10.1	4.2	.9		27.7	23.8	29.3	26.7	23.7	22.3	27.2	25.2	30.9	35.9
NW	*	2.8	8.0	6.8	1.9	.4		19.9	21.6	19.4	23.0	19.9	22.7	17.8	22.0	20.1	18.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.5							.5	.0	.2	.0	1.2	.8	.8	.0	.3	.0
TOT OBS	31	337	877	687	215	40	2187		20.8	474	161	429	122	391	113	367	128
TOT PCT	1.4	15.4	40.1	31.4	9.8	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	.3	4.0	4.5	.9	.1		10.5	17.5	10.2	11.4	11.3	9.0
NE	.6	2.9	2.8	1.1	.2		7.6	18.9	7.6	7.5	8.5	6.9
E	.6	2.4	3.3	1.4	.1		7.8	19.5	7.5	8.8	5.9	9.1
SE	.4	2.7	2.9	1.9	.1		7.9	20.1	8.1	7.3	9.4	6.9
S	1.0	2.4	2.3	1.5	.1		7.4	18.6	6.9	8.3	6.4	8.0
SW	.7	3.6	3.9	2.3	.3		10.7	20.4	10.5	11.8	12.4	8.0
W	.9	7.1	10.2	7.2	2.2		27.7	23.8	28.7	23.4	26.7	32.2
NW	.7	5.6	8.5	4.2	.8		19.9	21.6	20.3	20.5	18.7	19.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.5						.5	.0	.2	1.1	.6	.2
TOT OBS	139	674	838	449	87	2187		20.8	635	551	506	495
TOT PCT	6.4	30.8	38.3	20.5	4.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1952-1971
(OVER-ALL) 1877-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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	.6	18.0	40.3	31.3	8.0	1.6	20.1	100.0	635
06&09	1.1	1.1	14.0	39.7	32.1	10.5	1.5	20.9	100.0	551
12&15	.6	1.0	14.0	41.7	30.6	10.3	1.8	21.0	100.0	506
18&21	.2	1.0	15.2	38.6	31.5	10.9	2.6	21.6	100.0	495
TOT	11	20	337	877	687	215	40	20.8		2187
PCT	.5	.9	15.4	40.1	31.4	9.8	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	1.3	.7	2.6	5.5		6.3
NE	.7	.5	1.9	4.7		6.6
E	.4	.3	1.0	6.8		7.3
SE	.3	.5	.8	6.2		7.3
S	.9	.3	1.3	4.7		6.6
SW	1.0	.6	2.6	6.0		6.5
W	3.3	3.1	9.7	12.5		6.1
NW	3.1	2.0	6.2	8.1		5.9
VAR	.0	.0	.0	.0		.0
CALM	.1	.1	.1	.2		6.0
TOT OBS	186	134	438	916	1674	6.4
TOT PCT	11.1	8.0	26.2	54.7	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	.3	.0	.1	.9	3.1	2.5	.3	.3	.1	.0	2.6	
NE	.6	.0	.2	1.0	2.4	1.1	.3	.1	.2	.2	1.7	
E	1.4	*	.3	1.8	2.0	.8	.4	.0	.1	.3	1.3	
SE	1.0	.1	.3	1.3	2.0	.9	.2	.3	*	.3	1.3	
S	1.0	.1	.3	.5	1.6	1.1	.3	.1	.1	*	2.2	
SW	.8	.1	.3	1.1	2.9	2.0	.4	.0	.2	.1	2.3	
W	1.2	.1	.2	3.5	8.5	5.8	.8	.2	.2	.1	7.9	
NW	.7	*	.6	1.3	4.9	4.9	.7	.1	*	.3	5.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1	
TOT OBS	116	8	40	190	459	323	59	17	17	22	429	1674
TOT PCT	6.9	.5	2.4	11.4	27.4	19.3	3.5	1.0	1.0	1.3	25.6	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	1.3	2.2	2.3	2.3	2.3	2.3	2.3	2.3
* OR >5000	1.9	3.1	3.2	3.2	3.3	3.3	3.3	3.3
* OR >3500	3.7	6.3	6.8	6.9	6.9	7.0	7.0	7.0
* OR >2000	12.3	23.9	25.2	25.5	25.7	25.8	26.0	26.0
* OR >1000	23.2	46.5	51.1	52.1	52.9	52.9	53.4	53.4
* OR >600	27.4	54.4	61.1	62.9	64.0	64.2	64.7	64.7
* OR >300	27.8	55.9	63.0	65.1	66.4	66.7	67.1	67.1
* OR >150	27.9	56.2	63.4	65.5	66.9	67.1	67.7	67.7
* OR > 0	28.0	56.5	64.5	67.4	69.9	71.1	74.3	74.4
TOTAL	469	945	1080	1128	1170	1191	1243	1245

TOTAL NUMBER OF OBS: 1674

PCT FREQ NH <5/8: 25.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.9	4.0	6.3	4.6	3.8	6.1	9.8	10.4	42.9	6.2	1784

FEBRUARY

PERIOD: (PRIMARY) 1952-1971
(OVER-ALL) 1877-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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	.2	.3	.4	.3	.3	.1	.4	.5	.0	.1	2.6	
<1/2	NO PCP	*	.2	.4	.9	.6	.4	.1	*	.0	.2	2.9	
	TOT %	.3	.4	.8	1.3	.9	.5	.5	.5	.0	.3	5.4	
	PCP	.1	.2	.4	.3	.2	.2	.5	.1	.0	.0	1.9	
1/2<1	NO PCP	.1	.1	.1	.2	.1	*	.1	.2	.0	.0	.8	
	TOT %	.2	.2	.5	.4	.3	.2	.6	.2	.0	.0	2.7	
	PCP	.3	.1	.4	.4	.3	.4	.5	.1	.0	.0	2.4	
1<2	NO PCP	*	.1	.1	.1	.1	.2	*	.1	.0	.0	.8	
	TOT %	.3	.1	.5	.5	.4	.6	.5	.2	.0	.0	3.2	
	PCP	.2	.5	.6	.7	.6	.6	1.4	.6	.0	.0	5.1	
2<5	NO PCP	.8	.7	.2	.4	.6	.5	1.2	.6	.0	.0	5.0	
	TOT %	.9	1.1	.9	1.1	1.2	1.1	2.7	1.2	.0	.0	10.1	
	PCP	.4	.4	.7	.6	.5	1.0	3.3	1.6	.0	.0	8.6	
5<10	NO PCP	2.5	1.6	1.6	1.9	2.0	3.4	8.2	5.3	.0	.0	26.5	
	TOT %	3.0	2.0	2.4	2.5	2.6	4.4	11.4	6.9	.0	.0	35.1	
	PCP	.3	.1	.1	.1	.1	.1	1.2	.5	.0	.0	2.6	
10+	NO PCP	5.6	3.7	2.9	2.3	1.9	3.7	10.6	10.0	.0	.2	40.9	
	TOT %	5.9	3.9	3.1	2.4	1.9	3.8	11.8	10.6	.0	.2	43.4	
	TOT OBS												1993
	TOT PCT	10.5	7.8	8.0	8.2	7.3	10.6	27.5	19.6	.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	.2	.2	
<1/2	4-10	.0	.1	*	.1	.1	.0	*	*	.0		.4	
	11-21	.1	.2	.3	.6	.3	.2	.2	.2	.0		2.1	
	22+	.1	.2	.5	.5	.5	.3	.2	.2	.0		2.5	
	TOT %	.3	.4	.8	1.2	.9	.5	.5	.5	.0	.2	5.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	*	.0	*	.1	*	*	.1	.0		.3	
	11-21	.1	.1	.1	.2	.1	.2	.1	.1	.0		1.1	
	22+	*	*	.4	.2	.1	*	.4	*	.0		1.3	
	TOT %	.2	.2	.5	.4	.3	.2	.6	.2	.0	.0	2.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	*	.1	*	*	.1	.0	*	.0		.3	
	11-21	.3	.1	.1	.1	.1	.3	.0	.2	.0		1.2	
	22+	.1	.1	.3	.4	.3	.2	.5	.2	.0		2.0	
	TOT %	.3	.2	.5	.5	.4	.6	.5	.4	.0	.0	3.5	
	0-3	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.1	
2<5	4-10	.3	.2	.1	.2	.2	.1	.1	.1	.0		1.3	
	11-21	.3	.4	.3	.5	.4	.3	1.0	.4	.0		3.8	
	22+	.3	.5	.4	.5	.5	.6	1.7	.6	.0		5.1	
	TOT %	1.0	1.1	.9	1.1	1.2	1.1	2.8	1.2	.0	.0	10.3	
	0-3	.0	*	*	*	*	*	*	.0	.0	.0	.2	
5<10	4-10	.4	.2	.2	.3	.4	.4	.6	.7	.0		3.1	
	11-21	1.6	.9	1.0	.8	1.4	1.7	3.3	2.6	.0		13.3	
	22+	.9	.9	1.1	1.2	.7	2.1	7.2	3.7	.0		17.7	
	TOT %	2.9	2.0	2.3	2.3	2.5	4.3	11.2	6.9	.0	.0	34.4	
	0-3	.1	*	.1	*	*	.0	.1	*	.0	.2	.6	
10+	4-10	1.4	.9	.8	.9	.6	1.1	1.9	1.8	.0		9.4	
	11-21	3.0	2.0	1.6	1.0	.8	1.7	4.5	4.5	.0		19.1	
	22+	1.5	1.0	.6	.6	.4	1.0	5.4	4.3	.0		14.9	
	TOT %	6.0	3.9	3.1	2.5	1.9	3.8	12.0	10.6	.0	.2	44.0	
	TOT OBS												2079
	TOT PCT	10.6	7.9	8.0	8.0	7.2	10.5	27.5	19.8	.0	.4	100.0	

PERIOD: (PRIMARY) 1952-1971
(OVER-ALL) 1877-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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	7.4	.6	1.4	9.2	23.9	18.2	3.7	.4	1.0	2.0	67.9	32.1	489
06&09	7.2	.2	3.8	11.2	28.2	19.8	2.6	1.4	.7	.5	75.7	24.3	419
12&15	6.8	1.3	2.6	11.0	29.9	21.0	3.7	1.0	1.6	.8	79.8	20.2	381
18&21	5.8	.0	1.9	13.6	27.7	17.2	4.6	1.2	.7	1.7	74.5	25.5	412
TOT	116	9	41	190	463	323	62	17	17	22	1260	441	1701
PCT	6.8	.5	2.4	11.2	27.2	19.0	3.6	1.0	1.0	1.3	74.1	25.9	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	4.7	2.5	4.3	9.0	36.0	43.5	611
06&09	5.3	2.6	3.0	10.3	37.1	41.7	533
12&15	5.9	2.9	3.8	9.9	31.9	45.7	477
18&21	5.0	2.7	2.7	12.4	31.2	45.9	477
TOT	109	56	73	216	719	925	2098
PCT	5.2	2.7	3.5	10.3	34.3	44.1	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	7.5	11.7	26.3	42.8	30.9	479
06&09	7.3	12.9	29.9	46.8	23.3	412
12&15	6.4	11.7	27.7	53.3	18.9	375
18&21	5.4	9.8	31.9	44.4	23.8	408
TOT	112	193	483	779	412	1674
PCT	6.7	11.5	28.9	46.5	24.6	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
45/49	.0	.0	.0	.0	.1	.1	.2	.7	13	1.1
40/44	.0	.0	.0	.1	.1	.6	1.0	3.2	60	4.9
35/39	.1	.0	.0	.1	.6	2.4	5.0	11.9	249	20.1
30/34	.0	.0	.2	.3	2.2	6.7	12.1	15.9	462	37.4
25/29	.0	.1	.0	.2	2.3	3.2	4.7	9.0	240	19.4
20/24	.0	.0	.1	.2	.8	2.8	3.6	3.8	140	11.3
15/19	.0	.0	.0	.0	.6	1.1	1.5	1.7	61	4.9
10/14	.0	.0	.0	.0	.3	.1	.2	.2	9	.7
5/9	.0	.0	.0	.0	.0	.0	.1	.1	2	.2
TOTAL	1	1	4	11	87	210	349	573	1236	100.0
PCT	.1	.1	.3	.9	7.0	17.0	28.2	46.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.1	.1	.2	.6	.1	.0	.0	.0	.0
	.1	.2	.7	1.2	1.5	.5	.4	.2	.0	.1
	1.0	1.7	3.5	4.0	2.5	2.9	3.1	1.1	.0	.2
	3.5	4.4	3.8	3.4	2.6	4.7	8.3	6.5	.0	.2
	2.4	1.1	.8	.9	.6	1.6	7.3	4.7	.0	.0
	1.5	.5	.3	.2	.0	.5	4.3	4.1	.0	.0
	.7	*	.0	.0	.0	.0	1.9	2.2	.0	.0
	.0	.0	.0	.0	.0	.0	.3	.4	.0	.0
	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0
	9.2	8.0	9.2	9.9	7.9	10.3	25.7	19.3	.0	.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	48	43	39	30	18	14	8	29.8	632
06&09	52	45	40	31	18	13	4	30.1	549
12&15	48	45	40	31	18	13	10	30.6	499
18&21	47	44	40	32	20	14	9	30.8	495
TOT	52	44	40	31	18	13	4	30.3	2175

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	6.9	17.6	30.1	45.1	87	379
06&09	.3	.9	7.1	14.6	29.5	47.5	87	322
12&15	.0	2.1	4.6	18.9	22.9	51.4	88	280
18&21	.0	2.2	9.2	16.6	29.9	42.1	85	271
TOT	1	16	87	211	353	580	87	1248

FEBRUARY

PERIOD: (PRIMARY) 1952-1971
(OVER-ALL) 1877-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2	9	.2	.3
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.9	.1	20	.3	.9
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.4	.9	.1	46	.9	1.9
6	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.4	.3	.1	38	.7	1.6
5	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.7	.3	.0	53	.6	2.6
4	.0	.0	.0	.0	.0	.0	.0	.1	2.3	1.6	.1	.0	68	.6	3.5
3	.0	.0	.0	.0	.0	.0	.0	.5	2.8	1.5	.0	.0	80	.6	4.2
2	.0	.0	.0	.0	.0	.0	.0	1.6	4.4	.5	.1	.0	110	.7	6.0
1	.0	.0	.0	.0	.0	.0	.0	1.9	3.7	.8	.1	.0	108	.5	5.9
0	.0	.0	.0	.0	.0	.0	.2	3.2	3.5	.5	.0	.0	122	.3	7.0
-1	.0	.0	.0	.0	.0	.0	.4	3.5	2.9	.2	.1	.0	117	.6	6.4
-2	.0	.0	.0	.0	.0	.1	1.4	4.1	1.4	.3	.0	.0	120	.2	7.0
-3	.0	.0	.0	.0	.0	.0	1.2	3.8	.6	.2	.1	.0	99	.3	5.7
-4	.0	.0	.0	.0	.0	.1	2.8	2.2	.5	.0	.0	.0	92	.2	5.4
-5	.0	.0	.0	.0	.0	.4	3.0	1.7	.5	.1	.0	.0	95	.0	5.7
-6	.0	.0	.0	.0	.0	.7	2.0	.8	.1	.1	.0	.0	62	.0	3.7
-7/-8	.0	.0	.0	.0	.3	2.3	4.0	1.4	.5	.1	.0	.0	141	.0	8.5
-9/-10	.0	.0	.0	.0	.7	2.6	1.3	.2	.0	.0	.0	.0	81	.0	4.9
-11/-13	.0	.0	.0	.1	2.1	2.5	.7	.2	.1	.0	.0	.0	97	.1	5.7
-14/-16	.0	.0	.0	1.0	1.6	.5	.4	.1	.1	.0	.0	.0	60	.0	3.6
-17/-19	.0	.0	.1	.6	.6	.2	.0	.1	.0	.0	.0	.0	26	.0	1.6
-20/-22	.0	.1	.2	.4	.1	.0	.1	.0	.0	.0	.0	.0	13	.0	.8
-23/-25	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	5	.0	.3
-26/-30	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	1	7	36	90	157	287	426	421	175	52	9	1662	112	1550
PCT	.1	.1	.4	2.2	5.4	9.4	17.3	25.6	25.3	10.5	3.1	.5	100.0	6.7	93.3

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	.0	.6	.0	.0	.0	.0	.6
1-2	.0	.7	.7	.0	.0	.0	1.4
3-4	.0	.2	2.0	.5	.0	.0	2.7
5-6	.0	.0	2.2	.5	.0	.0	2.7
7	.0	.0	1.7	.4	.0	.0	2.2
8-9	.0	.0	.2	.5	.1	.0	.8
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.1	.0	.1	.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	1.5	7.1	2.4	.2	.0	11.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.2	.0	.0	.0	.0	.2
1-2	*	.7	.5	.0	.0	.0	1.2
3-4	.0	.6	2.7	.4	.0	.0	3.7
5-6	.0	.2	1.0	.3	.0	.0	1.5
7	.0	.0	.8	.5	.0	.0	1.3
8-9	.0	.0	.4	*	.0	.0	.4
10-11	.0	.0	.2	.2	.0	.0	.3
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	*	.0	.2	.2	.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.2	.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	.1	1.7	5.6	1.6	.2	.3	9.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4
1-2	.1	.5	.2	.0	.0	.0	.8
3-4	.0	.7	1.7	.3	.0	.0	2.7
5-6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.5	.5	.1	.0	1.0
8-9	.0	.0	.0	.3	.1	.0	.4
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.1	.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	.2	1.5	2.9	1.7	.2	.0	6.6

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	.5	.1	.0	.0	.0	.5
3-4	.0	1.0	1.8	.4	.0	.0	3.0
5-6	.0	.2	.4	.5	.2	.0	1.2
7	.0	.2	.4	.7	*	.0	1.3
8-9	.0	.0	.2	.4	.2	.0	.7
10-11	.0	.0	.0	.2	*	.0	.2
12	.0	.0	*	.2	.3	.0	.6
13-16	.0	.0	.0	.2	.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	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	2.7	2.5	1.0	.0	8.2

PERIOD: (OVER-ALL) 1963-1971 FEBRUARY AREA 0005 PLACENTIA BAY SOUTH

TABLE 18 (CONT) 46.0N 54.3W

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	.2	.0	.0	.0	.0	.2
1-2	.0	.7	.7	.0	.0	.0	1.4	.0	.4	.7	.0	.0	.0	1.2
3-4	.0	.2	.9	.1	.0	.0	1.2	.0	.9	1.5	.4	.0	.0	2.8
5-6	.0	.0	1.2	.3	.1	.0	1.7	.0	.5	1.2	1.2	.0	.0	3.0
7	.0	.2	.2	.3	.0	.0	.7	.0	.2	.7	.7	.3	.0	1.9
8-9	.2	.0	.2	.0	.2	.0	.5	.0	.0	.1	.6	.2	.0	.9
10-11	.0	.0	.0	.0	.2	.0	.2	.0	.0	.2	.3	*	.0	.6
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.2	*	.0	.2
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.7	.7	.0	1.4
17-19	.0	.0	.2	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.1	.3	.0	.4	.0	.0	.0	*	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.4
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	1.1	3.4	1.2	1.0	.0	6.8	.0	2.2	4.5	4.1	1.6	.2	12.6

	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	.2	.2	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	1.6	1.0	.0	.0	.0	2.6	.0	1.5	.7	.0	.0	.0	2.3	
3-4	.0	.9	2.3	1.2	.0	.0	4.4	.0	.3	2.7	.8	.0	.0	3.8	
5-6	.0	.2	2.6	1.3	.2	.0	4.2	.0	.0	2.6	1.5	.0	.0	4.1	
7	.0	.0	.7	1.0	.1	.2	2.0	.0	.0	1.4	1.4	*	.0	2.8	
8-9	.0	.0	1.2	1.3	.9	.0	3.4	.0	.2	1.1	.9	.3	.0	2.5	
10-11	.0	.0	.5	1.2	.0	.0	1.7	.0	.0	.2	.8	.2	.0	1.2	
12	.0	.0	.0	.2	.1	.0	.4	.0	.0	.0	.2	.3	.0	.6	
13-16	.0	.0	.0	1.2	.6	.0	1.7	.0	.0	.0	.5	.7	.0	1.2	
17-19	.0	.0	.1	.2	.7	.0	1.0	.0	.0	*	.0	.1	.2	.3	
20-22	.0	.0	.0	.3	1.0	.0	1.2	.0	.0	.0	*	.0	.0	*	
23-25	.0	.0	.0	.2	.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.2	.3	1.1	1.5	.0	.0	.0	.2	.2	.0	.4	
33-40	.0	.0	.0	.0	.2	.2	.3	.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	2.9	8.5	8.2	4.5	1.4	25.5	.0	2.2	8.8	6.3	1.9	.2	19.3	99.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.7	1.8	.2	.0	.0	.0	2.6	
1-2	.2	6.6	4.6	.0	.0	.0	11.4	
3-4	.0	4.8	15.4	4.0	.0	.0	24.2	
5-6	.0	1.0	11.8	5.8	.5	.0	19.0	
7	.0	.7	6.3	5.5	.7	.2	13.2	
8-9	.2	.2	3.3	4.0	2.0	.0	9.6	
10-11	.0	.0	1.2	3.3	.5	.0	5.0	
12	.0	.0	.2	1.3	.8	.0	2.3	
13-16	.0	.0	.2	2.6	2.6	.2	5.6	
17-19	.0	.0	.3	.3	.8	.2	1.7	
20-22	.0	.0	.0	.5	1.3	.2	2.0	
23-25	.0	.0	.0	.2	.5	.0	.7	
26-32	.0	.0	.0	.3	.7	1.3	2.3	
33-40	.0	.0	.0	.0	.2	.2	.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	
								604
TOT PCT	1.0	15.1	43.4	27.8	10.6	2.2	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	3.4	7.9	5.9	3.3	1.2	.8	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	335	5
6-7	.0	.6	3.9	7.1	8.3	4.9	3.3	2.1	2.2	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	477	7
8-9	.0	.3	1.0	1.5	2.9	2.8	3.0	2.5	3.2	.6	.9	.1	.1	.0	.0	.0	.0	.0	.0	272	10
10-11	.0	.0	.2	.8	.8	1.2	.8	.8	1.6	1.4	.7	.1	.5	.0	.0	.0	.0	.0	.0	128	13
12-13	.0	.0	.0	.1	.3	.0	.5	.3	.5	.2	.1	.1	.3	.1	.0	.0	.0	.0	.0	37	15
>13	.0	.0	.0	.1	.2	.1	.3	.1	.3	.1	.3	.1	.2	.1	.0	.0	.0	.0	.0	27	15
INDET	.6	1.7	1.9	1.2	2.1	1.0	1.1	.9	.8	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	171	7
TOTAL	11	87	216	241	259	162	142	99	128	40	33	8	19	2	0	0	0	0	0	1447	8
PCT	.8	6.0	14.9	16.7	17.9	11.2	9.8	6.8	8.8	2.8	2.3	.6	1.3	.1	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1952-1971
(OVER-ALL) 1877-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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 WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.8	1.2	3.2	.0	9.2	.0	.0	14.7	4.7	.0	6.5	.8	.6		.5	72.3
NE	3.7	.5	1.4	.4	12.4	.0	.0	17.5	2.4	.0	13.6	.8	1.1		.2	64.3
E	9.9	1.6	3.2	1.1	12.9	.5	1.1	28.9	3.8	.0	13.9	.0	.9		.3	52.2
SE	10.1	1.1	7.8	1.8	11.2	.4	.7	27.7	2.2	.0	15.2	1.4	2.9		.7	49.9
S	8.5	1.4	2.6	.3	9.3	1.0	.0	21.1	1.4	.0	27.2	1.4	.5		.0	48.4
SW	7.7	.2	2.2	.5	13.5	.1	.0	24.2	2.9	.0	13.0	.0	.9		.5	58.5
W	1.2	.2	.7	.5	14.8	.2	.5	17.8	5.0	.0	4.8	.0	.4		.0	72.0
NW	.5	.5	.3	.0	12.9	.0	.0	13.8	4.1	.0	4.0	.8	.5		.0	76.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	3.7	.0	7.4	.0	.0	11.1	.0	.0	33.3	.0	7.4		.0	48.1
TOT PCT	4.3	.7	2.2	.5	12.4	.2	.3	19.6	3.6	.0	10.8	.5	.9		.2	64.3
TOT OBS:	1844															

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 WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	5.5	.8	2.3	.4	12.4	.0	.0	19.8	2.1	.0	8.8	1.0	1.0		.0	67.4
06&09	5.9	1.4	2.6	.5	16.1	.2	.2	25.4	5.0	.0	9.5	.0	.5		.5	59.2
12&15	3.9	.6	2.2	.9	12.1	.2	.6	19.7	3.2	.0	13.4	.0	1.1		.0	62.6
18&21	2.0	.2	1.6	.2	8.9	.4	.2	13.5	4.4	.0	12.0	1.1	1.1		.4	67.4
TOT PCT	4.4	.8	2.1	.5	12.3	.2	.3	19.5	3.6	.0	10.9	.5	.9		.2	64.4
TOT OBS:	1861															

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	6.6	2.1	.4	.2		12.1	17.3	13.5	15.3	12.8	13.1	13.0	9.7	9.9	6.3
NE	.1	2.6	5.2	3.9	1.0	.2		13.0	19.7	15.2	8.9	12.6	11.4	14.3	13.2	13.4	8.0
E	.1	1.8	3.6	3.5	1.0	.1		10.0	20.6	9.8	10.0	9.8	10.3	11.3	7.6	10.3	9.2
SE	.1	1.3	3.6	2.1	.5	.0		7.5	18.9	5.7	8.8	6.4	9.1	7.8	10.5	8.0	8.8
S	.2	2.4	3.2	1.7	.3	.0		7.8	16.3	6.6	7.5	8.8	8.4	6.4	8.1	8.8	9.7
SW	.3	2.6	4.8	2.2	.9	.3		11.1	18.5	10.6	10.2	10.6	9.6	9.8	14.7	10.5	17.9
W	.1	3.6	8.4	6.3	3.4	.3		22.0	21.7	22.7	23.8	20.7	21.0	18.7	24.6	24.0	23.5
NW	.1	3.2	6.5	4.2	1.2	*		15.1	18.7	14.6	15.0	16.2	17.1	16.8	11.6	13.0	16.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0	1.5	.6	2.0	.0	1.9	.0	2.0	.0
TOT OBS	47	398	826	516	170	19	1976		19.1	407	160	342	107	361	129	351	119
TOT PCT	2.4	20.1	41.8	26.1	8.6	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	.9	5.7	4.0	1.2	.3		12.1	17.3	14.0	12.9	12.1	9.0
NE	.9	4.5	5.1	2.2	.3		13.0	19.7	13.4	12.4	14.0	12.0
E	.5	3.5	3.7	1.9	.4		10.0	20.6	9.8	9.9	10.3	10.1
SE	.6	2.6	3.1	1.0	.3		7.5	18.9	6.5	7.1	8.5	8.2
S	1.1	3.6	1.8	1.2	.1		7.8	16.3	6.8	8.7	6.9	9.0
SW	1.3	4.0	3.8	1.6	.4		11.1	18.5	10.4	10.4	11.1	12.4
W	.9	7.4	7.7	4.9	1.2		22.0	21.7	23.0	20.8	20.3	23.9
NW	1.2	5.5	6.1	2.0	.3		15.1	18.7	14.7	16.4	15.4	13.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	1.2	1.6	1.4	1.5
TOT OBS	173	725	697	317	64	1976		19.1	567	449	490	470
TOT PCT	8.8	36.7	35.3	16.0	3.2		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1952-1971
(OVER-ALL) 1877-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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	1.2	.4	20.5	44.4	26.6	6.3	.5	18.3	100.0	567
06&09	1.6	.9	19.2	38.8	29.0	10.0	.7	19.5	100.0	449
12&15	1.4	1.2	21.6	39.4	24.3	10.8	1.2	19.5	100.0	490
18&21	1.5	1.5	19.1	44.0	24.7	7.7	1.5	19.0	100.0	470
TOT	28	19	398	826	516	170	19	19.1		1976
PCT	1.4	1.0	20.1	41.8	26.1	8.6	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	2.2	1.0	2.6	6.6		5.9
NE	1.9	.7	2.1	7.9		6.4
E	.4	.4	1.1	8.2		7.3
SE	.5	.2	.6	6.0		7.1
S	1.4	.4	.6	5.5		6.3
SW	2.1	.8	2.4	5.6		5.9
W	3.5	3.1	6.2	9.5		5.7
NW	4.4	1.7	4.3	4.8		4.8
VAR	.0	.0	.0	.0		.0
CALM	.4	.1	.2	.8		5.3
TOT OBS	261	130	313	836	1560	6.0
TOT PCT	16.7	8.3	20.1	54.9	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	300 499	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.9	.1	.5	1.3	2.4	2.3	.4	.1	.0	*	4.3	
NE	1.7	*	.4	1.5	2.1	2.2	.9	*	.1	.4	3.3	
E	1.7	.2	.4	.9	2.3	1.8	.3	.1	.1	.6	1.5	
SE	1.0	.0	.5	.7	2.2	1.3	.1	.2	*	.1	1.2	
S	1.5	.9	.3	.8	1.5	.4	.2	.1	.2	.2	2.4	
SW	1.0	.0	.7	.7	2.7	1.7	.3	*	.2	.3	3.3	
W	1.1	.0	.3	1.8	5.2	4.3	.5	.2	.1	.3	8.5	
NW	.5	*	.3	1.4	2.7	2.9	.3	.1	.0	*	6.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.0	.0	.1	.2	.2	.1	.0	.0	.0	.5	
TOT OBS	155	9	52	143	333	287	49	14	11	30	497	1560
TOT PCT	9.9	.6	3.3	9.2	21.3	17.1	3.1	.9	.7	1.9	31.9	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	1.1	2.0	2.4	2.4	2.6	2.6	2.6	2.6
= OR >5000	1.4	2.9	3.3	3.3	3.5	3.5	3.5	3.5
= OR >3500	3.3	5.7	6.3	6.4	6.5	6.6	6.6	6.6
= OR >2000	10.8	21.2	22.8	23.2	23.4	23.5	23.6	23.6
= OR >1000	17.8	37.2	42.8	44.1	44.8	44.9	45.1	45.1
= OR >600	21.5	44.1	51.2	52.9	53.7	54.1	54.3	54.3
= OR >300	21.9	45.5	53.4	55.4	56.5	57.3	57.6	57.6
= OR >150	21.9	45.7	53.6	55.9	57.1	57.9	58.2	58.2
= OR > 0	22.0	45.9	54.4	57.7	60.5	64.0	67.5	67.9
TOTAL	344	718	851	902	946	1001	1056	1062

TOTAL NUMBER OF OBS: 1564 PCT FREQ NH <5/8: 32.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
11.1	4.3	7.4	4.3	3.9	5.0	7.3	6.9	40.6	9.2	1647

MARCH

PERIOD: (PRIMARY) 1952-1971
(OVER-ALL) 1877-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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	.1	.5	.4	.1	.2	.3	.2	.1	.0	.1	2.0	
<1/2	NO PCP	.3	.9	.7	.9	1.3	.5	.5	.2	.0	.1	5.5	
	TOT %	.4	1.3	1.1	1.0	1.5	.9	.8	.3	.0	.2	7.5	
	PCP	.2	.1	.5	.1	.1	.5	.2	*	.0	.1	1.7	
1/2<1	NO PCP	.2	.3	.4	.1	.1	.3	.1	.1	.0	.1	1.6	
	TOT %	.3	.4	.9	.2	.2	.8	.3	.1	.0	.1	3.3	
	PCP	.3	.3	.5	.2	.3	.4	.2	.2	.0	.0	2.3	
1<2	NO PCP	.1	.3	.3	.1	.1	.4	.1	.1	.0	.0	1.5	
	TOT %	.4	.6	.7	.3	.4	.8	.4	.2	.0	.0	3.8	
	PCP	.4	.7	.8	1.0	.4	.4	1.0	.4	.0	.0	5.1	
2<5	NO PCP	.4	.7	.8	.6	.5	.5	.7	.3	.0	.2	4.6	
	TOT %	.8	1.3	1.6	1.6	.9	1.0	1.7	.7	.0	.2	9.7	
	PCP	.6	.7	.8	.6	.7	.8	2.0	1.4	.0	.0	7.7	
5<10	NO PCP	3.7	3.8	2.5	2.0	2.1	2.7	6.4	4.6	.0	.3	28.1	
	TOT %	4.3	4.5	3.3	2.5	2.8	3.6	8.4	6.0	.0	.3	35.8	
	PCP	.1	.1	*	*	*	.1	.3	.1	.0	.0	.9	
10+	NO PCP	9.3	9.1	2.6	1.9	2.0	4.0	10.4	7.2	.0	.5	39.0	
	TOT %	9.4	9.2	2.7	1.9	2.0	4.1	10.8	7.3	.0	.5	39.9	
	TOT OBS												1842
	TOT PCT	11.7	13.3	10.3	7.5	7.8	11.1	22.3	14.6	.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
	0-3	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2	.4	
<1/2	4-10	.1	.3	.2	*	.6	.2	.2	.7	.0		1.8	
	11-21	.2	.6	.6	.6	.3	.4	.3	.2	.0		3.2	
	22+	.1	.4	.2	.4	.5	.4	.2	.0	.0		2.2	
	TOT %	.4	1.3	1.0	1.0	1.5	1.0	.7	.3	.0	.2	7.5	
	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.2	
1/2<1	4-10	.1	.1	.2	.0	.0	.1	.1	.1	.0		.6	
	11-21	.1	.2	.3	.1	.2	.3	*	.0	.0		1.1	
	22+	.1	.1	.4	.1	.0	.4	.2	*	.0		1.2	
	TOT %	.3	.4	.9	.2	.2	.7	.3	.1	.0	.1	3.1	
	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
1<2	4-10	.0	.2	.1	.0	.0	.1	.2	*	.0		.6	
	11-21	.2	.2	.2	.2	.1	.5	.1	.2	.0		1.7	
	22+	.2	.2	.4	.1	.3	.1	.1	*	.0		1.5	
	TOT %	.4	.6	.7	.3	.4	.8	.3	.2	.0	.0	3.8	
	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.3	.3	
2<5	4-10	.3	.2	.2	.1	.3	.1	.1	.2	.0		1.3	
	11-21	.5	.4	.5	.5	.4	.4	.4	.2	.0		3.3	
	22+	.1	.8	.9	.9	.2	.4	1.1	.3	.0		4.6	
	TOT %	.8	1.3	1.5	1.5	.9	.9	1.6	.7	.0	.3	9.6	
	0-3	.1	.1	.0	.0	.1	.1	.0	.0	.0	.3	.6	
5<10	4-10	.8	.6	.4	.4	.6	.9	.8	1.2	.0		5.7	
	11-21	2.3	1.4	1.2	1.3	1.4	1.3	2.8	2.3	.0		13.9	
	22+	1.1	2.3	1.5	.8	.7	1.2	4.6	2.5	.0		14.7	
	TOT %	4.3	4.3	3.2	2.5	2.7	3.5	8.2	5.9	.0	.3	34.9	
	0-3	.0	.1	.1	.1	.0	.1	.1	.1	.0	.5	.9	
10+	4-10	1.5	1.4	.9	.7	.9	1.2	2.1	1.5	.0		10.1	
	11-21	3.3	2.6	.9	.9	.8	2.1	4.7	3.8	.0		19.0	
	22+	1.1	1.3	.9	.4	.2	.8	3.8	2.5	.0		11.0	
	TOT %	5.9	5.4	2.8	1.9	2.0	4.2	10.6	7.8	.0	.5	41.0	
	TOT OBS												1927
	TOT PCT	12.1	13.2	10.1	7.4	7.8	11.1	21.8	15.0	.0	1.3	100.0	

MARCH

PERIOD: (PRIMARY) 1952-1971
(OVER-ALL) 1877-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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	9.1	.2	2.6	8.9	21.0	17.0	2.6	.7	.5	1.9	64.3	35.7	429
06Z09	10.7	.8	4.5	8.7	18.9	17.2	2.0	1.4	.8	2.3	67.3	32.7	355
12Z15	10.0	.8	3.3	11.5	23.8	15.6	3.6	1.0	1.2	1.8	72.8	27.2	390
18Z21	10.0	.5	2.9	7.3	21.5	17.8	4.2	.5	.2	1.7	66.7	33.3	409
TOT	157	9	52	144	338	268	49	14	11	30	1072	511	1583
PCT	9.9	.6	3.3	9.1	21.4	16.9	3.1	.9	.7	1.9	67.7	32.3	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
00Z03	5.0	2.9	2.9	10.4	37.6	41.3	559
06Z09	8.3	3.4	2.5	8.6	35.6	41.7	444
12Z15	8.8	3.8	4.7	8.8	32.4	39.5	478
18Z21	8.6	2.4	3.4	10.3	32.8	42.5	464
TOT	147	60	75	186	675	802	1945
PCT	7.6	3.1	3.9	9.6	34.7	41.2	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
00Z03	9.0	12.8	28.5	37.1	34.4	421
06Z09	10.3	17.4	31.3	36.5	32.2	351
12Z15	9.8	16.0	36.6	37.6	25.8	388
18Z21	9.9	15.3	30.9	37.6	31.4	404
TOT	152	239	497	582	485	1564
PCT	9.7	15.3	31.8	37.2	31.0	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
45/49	.0	.0	.0	.1	.0	.1	.1	.1	4	.4
40/44	.0	.0	.0	.1	.3	.2	.7	1.4	30	2.6
35/39	.0	.1	.1	.2	.9	2.2	6.7	12.5	257	22.7
30/34	.0	.0	.1	.6	1.5	8.8	16.0	22.1	556	49.1
25/29	.0	.0	.0	.7	1.6	3.9	4.9	6.8	202	17.8
20/24	.0	.0	.1	.1	.4	1.9	2.1	1.4	67	5.9
15/19	.0	.0	.1	.1	.2	.2	.5	.3	15	1.3
10/14	.0	.0	.0	.0	.0	.0	.1	.1	2	.2
TOTAL	0	1	4	21	54	195	352	506	1133	100.0
PCT	.0	.1	.4	1.9	4.8	17.2	31.1	44.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	*	.0	.1	.1	.0	.0	.0	.0	.0
.2	.3	.3	.2	.6	.9	.1	*	.0	.0
1.9	3.9	2.5	2.2	3.4	3.7	3.2	1.6	.0	.4
5.3	6.0	7.1	4.9	3.4	5.0	10.9	5.7	.0	.7
2.5	1.5	.7	1.2	.6	2.0	5.7	3.7	.0	.0
.8	.3	.3	.2	.3	.1	1.9	2.2	.0	.0
.3	.2	.1	.0	.0	.0	.2	.6	.0	.0
.0	.1	.0	.0	.0	.0	.0	.1	.0	.0
11.2	12.2	10.9	8.8	8.2	11.7	22.0	13.9	.0	1.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	49	40	38	32	29	18	11	31.3	564
06Z09	47	42	38	32	21	16	11	31.1	450
12Z15	49	43	39	32	29	16	9	31.9	489
18Z21	49	43	40	33	24	20	14	32.9	468
TOT	49	42	39	32	29	18	9	31.8	1971

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	3.3	5.5	16.7	33.1	41.3	86	329
06Z09	.0	.7	3.6	19.6	29.1	46.9	88	275
12Z15	.0	1.5	2.3	17.5	32.0	46.5	88	275
18Z21	.0	3.4	7.1	15.3	29.9	44.4	86	268
TOT	0	26	54	198	357	512	87	1147

MARCH

PERIOD: (PRIMARY) 1952-1971
(OVER-ALL) 1877-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.1	.0
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	3	.0	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	.0	7	.1	.4
9/10	.0	.0	.0	.0	.0	.0	.0	.6	.3	.1	.0	15	.4	.6
7/8	.0	.0	.0	.0	.0	.0	.3	1.7	.3	.0	.0	35	1.1	1.3
6	.0	.0	.0	.0	.0	.0	.9	.9	.0	.0	.0	27	.3	1.5
5	.0	.0	.0	.0	.0	.0	1.7	1.5	.1	.0	.0	46	.7	2.5
4	.0	.0	.0	.0	.0	.3	3.0	1.1	.2	.0	.0	68	.9	3.7
3	.0	.0	.0	.0	.0	1.2	5.3	1.3	.2	.0	.0	120	1.5	4.5
2	.0	.0	.0	.0	.0	3.0	6.0	1.1	.1	.0	.0	152	1.3	8.9
1	.0	.0	.0	.0	.1	4.1	5.0	.7	.0	.0	.0	147	1.1	8.7
0	.0	.0	.0	.0	.3	6.8	5.2	.3	.0	.0	.0	188	1.5	11.1
-1	.0	.0	.0	.0	.9	3.9	2.2	.2	.0	.0	.0	106	.5	6.6
-2	.0	.0	.0	.0	.9	5.5	1.1	.1	.0	.0	.0	115	.5	7.2
-3	.0	.0	.0	.1	1.5	3.1	.9	.0	.0	.0	.0	84	.1	5.5
-4	.0	.0	.0	.2	2.8	1.7	1.0	.3	.0	.0	.0	90	.2	5.8
-5	.0	.0	.0	.1	2.6	1.3	.2	.0	.0	.0	.0	64	.0	4.3
-6	.0	.0	.0	.4	1.5	.5	.4	.0	.0	.0	.0	43	.1	2.8
-7/-8	.0	.0	.0	2.3	1.3	.5	.5	.0	.0	.0	.0	70	.1	4.6
-9/-10	.0	.0	.3	1.4	.4	.3	.1	.1	.0	.0	.0	39	.1	2.5
-11/-13	.0	.0	.9	.9	.3	.5	.2	.0	.0	.0	.0	41	.1	2.7
-14/-16	.0	.5	.1	.1	.2	.2	.1	.0	.0	.0	.0	18	.0	1.2
-17/-19	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	5	.0	.3
-20/-22	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-23/-25	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	9	8	20	83	193	491	511	191	23	3	2	1488	160	1328
PCT	.2	.5	1.3	5.6	13.0	33.0	34.3	10.1	1.5	.2	.1	100.0	10.8	89.2

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	.7	.0	.0	.0	.0	.7
1-2	.0	.9	.4	.0	.0	.0	1.3
3-4	.0	.5	1.7	.1	.0	.0	2.4
5-6	.0	.3	1.5	.3	.0	.0	2.1
7	.0	.0	.8	.5	.0	.0	1.3
8-9	.0	.0	.1	.3	.0	.0	.4
10-11	.0	.0	.3	.2	.0	.0	.5
12	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.3	.5	.0	.8
17-19	.0	.0	.0	.0	.0	.3	.3
20-22	.0	.0	.0	.0	.0	.2	.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	.0	2.4	5.0	2.1	.5	.5	10.4

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	1.2	.4	.0	.0	.0	1.6
3-4	.0	.2	1.8	*	.0	.0	2.1
5-6	.0	.7	2.2	1.4	.0	.0	4.3
7	.0	*	1.5	1.7	.6	.0	3.9
8-9	.0	.2	*	.6	.1	.0	1.0
10-11	.0	.0	.2	.5	.0	.2	.9
12	.0	.0	.0	.4	.2	.0	.7
13-16	.0	.2	.0	.7	.2	.0	1.1
17-19	.0	.0	.0	.2	.0	.1	.3
20-22	.0	.0	.0	.0	.2	.2	.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	.0	3.1	6.3	5.6	1.4	.5	16.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.3	.0	.0	.0	.5
1-2	.0	.7	.3	.0	.0	.0	1.1
3-4	.0	.7	.7	.2	.0	.0	1.6
5-6	.0	.1	.9	.8	.0	.0	1.9
7	.0	.1	.9	.7	.1	.0	1.9
8-9	.0	.0	.2	1.4	.5	.0	2.1
10-11	.0	.0	.2	.7	.0	.0	.9
12	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.3	.7	.0	1.0
17-19	.0	.0	.0	.4	.2	.0	.6
20-22	.0	.0	.0	.0	.3	.0	.3
23-25	.0	.0	.0	.2	.0	.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	.0	1.9	3.6	4.8	2.1	.0	12.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	*	.0	.0	.0	.2
1-2	.0	.8	.6	.0	.0	.0	1.4
3-4	.0	.4	1.3	*	.0	.0	1.8
5-6	.0	.0	.8	.2	.0	.0	1.0
7	.0	.0	.3	.6	.2	.0	1.2
8-9	.0	.0	.2	*	.0	.0	.2
10-11	.0	.0	.2	.2	.0	.0	.4
12	.0	.0	.0	.2	.2	.0	.4
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	.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	.0	1.4	3.6	1.4	.7	.0	7.1

PERIOD: (OVER-ALL) 1963-1971

AREA 0005 PLACENTIA BAY SOUTH
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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	.4	.2	.0	.0	.0	.0	.6
1-2	.0	1.8	.5	.0	.0	.0	2.4
3-4	.0	.7	1.3	.5	.0	.0	2.6
5-6	.0	.0	.3	.2	.0	.0	.5
7	.0	.0	.7	.1	.0	.0	.8
8-9	.0	.0	.0	.1	.1	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.4	.1	.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	.4	2.8	2.9	1.6	.3	.0	8.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	*	.0	.0	.0	.8
1-2	.0	1.1	.0	.0	.0	.0	1.1
3-4	.0	.3	1.4	.0	.0	.0	1.7
5-6	.0	.2	1.2	.6	.0	.0	2.0
7	.0	.0	2.3	.1	.2	.0	2.6
8-9	.0	.0	.8	.4	*	.0	1.2
10-11	.0	.2	.4	.7	.2	.0	1.5
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.2	*	.0	.2
17-19	.0	.0	.0	.0	.3	.0	.3
20-22	.0	.0	.0	*	.3	.4	.7
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	.0	2.6	6.2	2.3	1.1	.4	12.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.3	.0	.0	.0	1.0
1-2	.0	1.1	.6	.0	.0	.0	1.7
3-4	.0	1.0	3.0	.2	.0	.0	4.2
5-6	.0	.6	1.9	.2	.0	.0	2.7
7	.0	.0	.7	.8	.2	.0	1.8
8-9	.0	.0	.4	.8	.1	.0	1.4
10-11	.0	.0	.2	1.2	.6	.0	1.4
12	.0	.0	.4	.5	.1	.1	1.2
13-16	.0	.0	.0	.3	.7	.0	1.1
17-19	.0	.0	.2	.3	1.1	.0	1.6
20-22	.0	.0	.0	.1	.7	.0	.8
23-25	.0	.0	.0	.0	.1	.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	.0	3.4	7.8	4.7	3.2	.1	19.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.7	.0	.0	.0	.0	.7	
1-2	.0	.5	.0	.0	.0	.0	.5	
3-4	.0	1.0	2.2	.4	.0	.0	3.6	
5-6	.0	.2	.7	.8	.0	.0	1.8	
7	.0	.0	.9	.1	.0	.0	1.0	
8-9	.0	.0	.4	.5	*	.0	1.0	
10-11	.0	.0	*	.2	.0	.0	.2	
12	.0	.0	.0	.2	.4	*	.7	
13-16	.0	.0	.0	.5	.1	.0	.6	
17-19	.0	.0	.0	.1	.2	.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	.0	2.4	4.3	2.8	.8	*	10.4	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	3.5	4.1	.8	.0	.0	.0	8.5	
1-2	.0	8.1	3.0	.0	.0	.0	11.0	
3-4	.2	4.9	13.4	1.6	.0	.0	20.1	
5-6	.0	2.2	9.6	4.5	.0	.0	16.3	
7	.0	.2	8.3	4.7	1.4	.0	14.6	
8-9	.0	.2	2.2	4.3	1.0	.0	7.7	
10-11	.0	.2	1.6	3.7	.2	.2	5.9	
12	.0	.0	.4	2.2	1.2	.2	3.9	
13-16	.0	.2	.0	2.8	2.6	.0	5.5	
17-19	.0	.0	.2	1.0	1.8	.4	3.3	
20-22	.0	.0	.0	.2	1.6	.8	2.6	
23-25	.0	.0	.0	.2	.2	.0	.4	
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	3.7	20.1	39.4	25.2	10.0	1.6	100.0	508

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	.5	4.2	11.2	7.4	4.1	1.8	.4	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	394	4
6-7	.0	.7	4.2	6.1	6.7	4.1	3.5	2.6	1.1	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	386	7
8-9	.1	.1	1.3	1.1	3.3	2.6	2.8	1.6	2.7	.7	.7	.2	.1	.0	.0	.0	.0	.0	.0	223	10
10-11	.0	.1	.2	.5	1.0	.5	.6	1.0	1.4	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	85	11
12-13	.0	.0	.2	.1	.2	.3	.1	.4	.3	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	24	11
>13	.0	.0	.0	.0	.2	.1	.2	.0	.4	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	18	14
INDET	1.5	1.8	3.5	2.3	1.6	.9	.8	.2	.4	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	175	5
TOTAL	27	90	269	228	223	133	110	79	85	32	22	4	3	0	0	0	0	0	0	1305	7
PCT	2.1	6.9	20.6	17.5	17.1	10.2	8.4	6.1	6.5	2.5	1.7	.3	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1950-1971
(OVER-ALL) 1879-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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	2.1	1.0	1.3	.0	7.2	.4	.0	10.8	1.5	.0	11.3	.9	.9		.0	74.6
NE	6.7	1.1	2.9	.0	8.7	1.4	.0	20.9	2.2	.0	14.8	.6	.0		.0	61.5
E	15.7	1.5	5.3	.0	5.0	.4	.4	27.0	1.1	.0	26.0	1.8	1.5		.0	42.6
SE	23.0	.9	2.7	.0	3.8	.0	.2	29.5	1.3	.7	31.6	1.3	1.6		.0	34.0
S	19.8	1.4	4.1	.0	1.8	.0	.0	25.5	3.1	.0	22.7	.5	1.3		.0	46.9
SW	4.4	.4	1.3	.2	2.7	.3	.3	9.5	1.6	.0	20.9	.9	1.9		.0	65.1
W	1.8	.2	.2	.1	5.4	.0	.0	7.2	2.9	.0	7.6	1.1	1.2		.0	80.0
NW	.6	.5	.0	.0	5.3	.0	.0	6.3	2.7	.0	5.7	.6	.6		.0	84.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	3.2	3.2	.0	.0	3.2	.0	.0	9.7	.0	.0	16.1	.0	.0		.0	74.2
TOT PCT	7.3	.8	1.8	.1	4.9	.3	.1	14.6	2.1	.1	15.8	1.0	1.2		.0	65.3
TOT OBS:	1883															

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	7.3	.9	1.5	.2	4.3	.2	.0	14.1	2.4	.0	14.5	.8	1.9		.0	66.4
06&09	9.0	.7	1.9	.0	6.1	.0	.2	16.8	2.1	.2	14.7	1.4	.5		.0	64.3
12&15	6.8	.2	2.8	.0	5.1	.4	.0	15.0	2.1	.0	16.7	.9	1.5		.0	64.1
18&21	6.1	1.2	1.2	.0	4.1	.4	.2	12.5	1.6	.0	18.4	.8	.8		.0	65.8
TOT PCT	7.3	.8	1.8	.1	4.9	.3	.1	14.5	2.1	.1	16.1	.9	1.2		.0	65.2
TOT OBS:	1911															

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	3.1	6.0	2.5	.5	*		12.5	16.2	10.2	12.1	13.9	18.3	13.4	12.9	12.0	10.2
NE	.3	2.7	3.5	1.9	.3	*		8.7	16.4	10.3	9.3	5.8	9.8	8.0	9.9	8.7	10.2
E	.2	2.4	4.1	2.1	.6	*		9.5	17.3	9.4	8.4	9.1	10.9	11.6	10.6	8.3	6.8
SE	.3	2.2	3.0	1.5	.2	*		7.4	15.7	5.4	9.2	7.9	7.1	7.8	9.1	7.3	7.5
S	.4	3.2	4.6	1.9	.4	*		10.5	15.7	10.1	8.1	10.3	10.7	11.2	12.3	9.9	12.5
SW	.1	5.3	7.0	2.8	.3	*		15.7	15.3	16.0	18.8	13.6	16.7	14.7	13.4	16.9	16.6
W	.4	6.0	10.6	5.5	1.6	.2		23.8	17.7	24.9	24.8	24.2	18.5	20.7	23.9	26.2	23.9
NW	.4	3.0	4.3	2.4	.3	*		10.4	16.3	12.2	8.1	12.2	6.9	11.0	7.1	9.3	10.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0	1.5	1.2	3.0	.9	1.6	.7	1.3	2.1
TOT OBS	86	571	869	421	85	9	2041		16.2	409	161	337	112	376	134	372	140
TOT PCT	4.2	28.0	42.6	20.6	4.2	.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	1.3	5.7	4.4	.9	.2		12.5	16.2	10.7	15.0	13.2	11.5
NE	1.2	3.5	2.8	.9	.2		8.7	16.4	10.0	6.8	8.5	9.1
E	.9	4.1	2.9	1.4	.1		9.5	17.3	9.1	9.6	11.3	7.9
SE	1.0	3.3	2.3	.7	.1		7.4	15.7	6.4	7.7	8.2	7.3
S	1.2	5.1	3.1	.9	.2		10.5	15.7	9.5	10.4	11.5	10.6
SW	1.8	7.8	5.1	.9	.1		15.7	15.3	16.8	14.4	14.4	16.8
W	2.2	10.3	7.5	3.1	.7		23.8	17.7	24.9	22.8	21.6	25.6
NW	1.5	4.3	3.2	1.4	*		10.4	16.3	11.1	10.9	10.0	9.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	1.4	2.4	1.4	1.6
TOT OBS	262	900	638	207	34	2041		16.2	570	449	510	512
TOT PCT	12.8	44.1	31.3	10.1	1.7		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1950-1971
(OVER-ALL) 1879-1971

AREA 0005 PLACENTIA BAY SOUTH
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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	1.4	2.1	26.3	43.7	21.8	4.0	.7	16.5	100.0	570
06&09	2.4	2.2	31.2	40.5	19.4	4.0	.2	15.5	100.0	449
12&15	1.4	2.9	26.3	41.4	23.1	4.7	.2	16.6	100.0	510
18&21	1.6	2.9	28.7	44.3	18.0	3.9	.6	15.9	100.0	512
TOT	34	52	571	869	421	85	9	16.2		2041
PCT	1.7	2.5	28.0	42.6	20.6	4.2	.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	2.9	1.0	2.3	5.5		5.5
NE	.9	.7	1.0	5.2		6.5
E	.8	.3	.9	7.9		7.0
SE	.6	.2	.6	5.6		7.0
S	1.3	.5	1.5	6.9		6.5
SW	4.1	1.2	2.9	7.5		5.4
W	8.5	2.8	4.6	9.5		4.7
NW	4.0	1.2	1.7	3.5		4.4
VAR	.0	.0	.0	.0		.0
CALM	.7	.1	.2	.8		4.6
TOT OBS	374	125	245	821	1565	5.6
TOT PCT	23.9	8.0	15.7	52.5	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	1.0	.0	.3	.7	2.2	2.1	.5	*	.1	.2	4.6	
NE	1.0	.1	.5	.4	1.9	1.4	.1	*	.0	.1	2.3	
E	2.1	*	.4	.9	2.5	1.3	.3	.1	*	.4	1.9	
SE	2.1	.0	.3	.9	1.2	.7	.3	.1	.1	.2	1.3	
S	2.2	.1	.2	.8	1.3	1.3	.4	.1	.2	.2	3.4	
SW	1.8	.2	.4	1.2	1.7	1.6	.4	.5	.2	.6	7.1	
W	.9	.0	.4	1.7	3.1	3.7	.7	.3	.2	.8	13.7	
NW	.4	.0	.1	.4	1.2	1.5	.4	.1	.3	.1	5.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.0	.3	.2	.1	.0	.0	.1	.9	
TOT OBS	184	7	41	109	240	213	49	19	18	40	645	1565
TOT PCT	11.8	.4	2.6	7.0	15.3	13.6	3.1	1.2	1.2	2.6	41.2	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	2.5	3.1	3.4	3.4	3.5	3.7	3.7	3.7
* OR >4000	3.0	4.3	4.7	4.7	4.7	4.9	4.9	4.9
* OR >3500	4.7	7.1	7.6	7.8	7.8	8.0	8.0	8.0
* OR >2000	10.5	18.8	20.9	21.2	21.2	21.5	21.7	21.7
* OR >1000	15.4	29.6	34.7	35.8	36.4	36.8	37.2	37.2
* OR >600	17.3	34.0	41.1	42.5	43.3	43.7	44.2	44.2
* OR >300	17.7	34.7	42.4	44.5	45.7	46.2	46.8	46.8
* OR >150	17.7	34.8	42.6	44.7	45.9	46.5	47.1	47.1
* OR > 0	17.7	34.9	43.3	46.1	48.5	51.4	57.5	58.9
TOTAL	277	547	680	723	761	806	902	924

TOTAL NUMBER OF OBS: 1569 PCT FREQ NH <5/8: 41.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
19.8	5.7	8.2	4.0	2.8	2.7	5.0	6.0	35.0	10.9	1655

APRIL

PERIOD: (PRIMARY) 1950-1971
(OVER-ALL) 1870-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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	.1	.2	.4	.5	.5	.9	.2	*	.0	.1	2.1	
<1/2	NO PCP	1.0	.5	1.4	1.7	1.6	2.1	.8	.4	.0	.2	9.5	
	TOT %	1.1	.7	1.8	2.2	2.1	2.2	1.0	.4	.0	.3	11.6	
	PCP	.2	.3	.2	.1	.2	*	.1	.0	.0	.0	1.2	
1/2<1	NO PCP	.1	.4	.3	.3	.2	.9	.3	.1	.0	.0	2.0	
	TOT %	.4	.7	.5	.4	.4	.4	.4	.1	.0	.0	3.2	
	PCP	.3	.3	.3	.2	.4	.2	.1	.1	.0	.0	2.0	
1<2	NO PCP	.2	.2	.3	.1	.1	.2	.1	.1	.0	.0	1.4	
	TOT %	.5	.5	.6	.3	.5	.4	.2	.2	.0	.0	3.4	
	PCP	.4	.4	.8	.8	1.0	.4	.3	.1	.0	.1	4.4	
2<5	NO PCP	.3	.6	.9	.5	.7	1.1	1.4	.5	.0	.1	6.1	
	TOT %	.7	.9	1.7	1.4	1.8	1.9	1.6	.6	.0	.2	10.5	
	PCP	.2	.5	.8	.5	.6	.4	.9	.3	.0	.0	4.4	
5<10	NO PCP	3.0	1.7	1.7	1.3	2.4	4.3	6.6	1.8	.0	.3	23.0	
	TOT %	3.2	2.2	2.5	1.8	2.9	4.8	7.5	2.1	.0	.3	27.4	
	PCP	.1	*	.2	.1	.0	.1	.2	.1	.0	.0	.6	
10+	NO PCP	6.4	3.2	2.5	1.3	2.7	6.3	13.2	6.8	.0	.9	43.3	
	TOT %	6.4	3.3	2.7	1.3	2.7	6.4	13.3	6.9	.0	.9	43.9	
	TOT OBS												1880
	TOT PCT	12.3	8.3	9.7	7.3	10.4	15.9	24.1	10.3	.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
	0-3	.1	.0	.1	.1	.0	.1	.1	.1	.0	.3	.7	
<1/2	4-10	.3	.4	.6	.5	.5	.6	.5	.2	.0		3.7	
	11-21	.6	.2	.9	.9	1.2	1.1	.3	.1	.0		5.2	
	22+	.1	.2	.2	.6	.5	.4	.2	.0	.0		2.1	
	TOT %	1.0	.8	1.7	2.1	2.2	2.2	1.1	.4	.0	.3	11.8	
	0-3	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.1	
1/2<1	4-10	.0	.2	.1	.1	.1	.3	.1	.1	.0		1.0	
	11-21	.3	.3	.2	.2	.1	.1	.1	.0	.0		1.2	
	22+	.1	.2	.2	.2	.2	*	.1	.0	.0		.9	
	TOT %	.4	.7	.5	.4	.4	.4	.4	.1	.0	.0	3.1	
	0-3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	4-10	.2	.2	.1	.1	.1	.3	.1	.1	.0		1.1	
	11-21	.2	.1	.3	.1	.2	.2	.2	.1	.0		1.3	
	22+	.2	.3	.1	.1	.2	.1	*	.1	.0		1.0	
	TOT %	.5	.5	.6	.3	.5	.5	.3	.2	.0	.0	3.5	
	0-3	.0	.1	.0	.0	.1	.0	.0	.1	.0	.2	.5	
2<5	4-10	.2	.1	.3	.2	.2	.4	.2	.1	.0		1.6	
	11-21	.3	.4	.6	.6	.6	.7	.6	.2	.0		4.2	
	22+	.2	.3	.8	.6	.8	.3	.7	.2	.0		4.0	
	TOT %	.7	1.0	1.7	1.4	1.7	1.5	1.6	.6	.0	.2	10.2	
	0-3	.1	.1	.1	.1	.2	.1	.1	.1	.0	.3	1.0	
5<10	4-10	.5	.4	.5	.6	1.1	1.4	1.4	.4	.0		6.4	
	11-21	1.7	.9	.9	.9	1.3	2.1	2.4	.9	.0		11.0	
	22+	.8	.8	.9	.1	.3	1.2	3.3	.7	.0		8.2	
	TOT %	3.1	2.2	2.4	1.7	2.9	4.8	7.2	2.1	.0	.3	26.6	
	0-3	.2	.1	.1	.1	.1	*	.2	.1	.0	.9	1.8	
10+	4-10	2.0	1.3	.7	.7	1.2	2.5	3.6	2.3	.0		14.2	
	11-21	2.7	1.5	1.3	.4	1.3	3.0	6.7	3.0	.0		19.8	
	22+	1.5	.4	.7	.3	.3	1.1	3.0	1.5	.0		8.9	
	TOT %	6.4	3.3	2.7	1.5	3.0	6.6	13.4	7.0	.0	.9	44.7	
	TOT OBS												1971
	TOT PCT	12.1	8.3	9.5	7.5	10.6	15.9	24.0	10.3	.0	1.6	100.0	

PERIOD: (PRIMARY) 1950-1971
(OVER-ALL) 1879-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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
00E03	11.7	.5	2.1	5.7	16.3	14.0	3.0	2.3	1.8	2.8	60.2	39.8	435
06E09	11.5	.6	3.1	7.8	15.4	13.7	2.8	.3	.6	3.1	58.8	41.2	357
12E15	11.9	.3	2.1	8.5	15.6	14.0	3.4	1.1	1.1	2.1	60.1	39.9	378
18E21	11.4	.5	3.0	5.8	14.2	12.1	3.0	.9	.9	2.1	53.8	46.2	431
TOT	186	7	41	110	246	215	49	19	18	40	931	670	1601
PCT	11.6	.4	2.6	6.9	15.4	13.4	3.1	1.2	1.1	2.5	58.2	41.8	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
00E03	11.0	2.0	4.1	11.5	29.8	41.7	557
06E09	11.5	3.6	3.4	10.2	22.9	48.4	442
12E15	13.1	3.6	3.8	8.6	27.5	43.4	498
18E21	12.5	3.8	2.6	10.4	24.5	46.2	502
TOT	240	64	70	204	527	894	1999
PCT	12.0	3.2	3.5	10.2	26.4	44.7	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
00E03	12.3	16.0	30.0	33.0	37.0	424
06E09	11.8	18.7	33.4	28.2	38.3	347
12E15	11.9	16.7	31.8	31.0	37.1	377
18E21	11.4	17.8	32.1	26.1	41.8	421
TOT	186	271	498	465	606	1569
PCT	11.9	17.3	31.7	29.6	38.6	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
55/59	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
50/54	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
45/49	.0	.0	.0	.0	.1	.1	.2	.4	12	.9
40/44	.0	.1	.1	.0	.7	1.2	3.1	4.8	137	10.0
35/39	.0	.0	.1	.2	1.3	4.6	11.9	28.0	630	46.1
30/34	.0	.0	.1	.3	1.2	4.5	11.5	20.2	516	37.8
25/29	.0	.0	.0	.0	.1	1.0	1.4	2.3	65	4.8
20/24	.0	.0	.0	.0	.0	.0	.0	.3	4	.3
TOTAL	0	1	4	7	48	157	385	764	1366	100.0
PCT	.0	.1	.3	.5	3.5	11.5	28.2	55.9		

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	.0	.0	.0	.0
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
.0	.1	.1	.1	.2	.2	.1	*	.0	.0
.9	.4	1.6	.9	2.3	2.2	1.2	.5	.0	.1
4.4	2.9	4.8	4.6	6.4	7.1	11.1	4.1	.0	.5
5.8	3.9	3.8	1.8	2.1	5.3	9.7	4.9	.0	.4
.9	.4	.1	.1	.2	.1	2.1	.8	.0	.1
*	.0	.0	.0	.0	.0	.2	*	.0	.0
12.1	7.7	10.4	7.5	11.3	15.0	24.5	10.3	.0	1.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	48	44	40	35	30	27	26	34.9	570
06E09	51	44	40	34	28	23	21	34.3	451
12E15	55	45	41	35	30	27	24	35.3	508
18E21	48	45	43	36	31	28	25	36.5	508
TOT	55	45	41	35	30	27	21	35.3	2037

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
00E03	.0	.5	3.6	12.4	25.4	58.1	89	394
06E09	.0	.3	1.6	8.1	30.6	59.4	90	310
12E15	.0	1.4	3.1	13.4	28.0	54.0	88	350
18E21	.0	1.2	5.5	11.0	31.1	31.2	88	328
TOT	0	12	48	157	395	770	89	1382

APRIL

PERIOD: (PRIMARY) 1950-1971
(OVER-ALL) 1879-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.1	.3	.3	.0	11	.3	.4
9/10	.0	.0	.0	.1	.6	.8	.3	.0	28	.4	1.3
7/8	.0	.0	.0	.4	2.6	1.8	.2	.0	79	1.1	3.9
6	.0	.0	.0	.8	2.0	.4	.1	.0	52	.8	2.5
5	.0	.0	.1	1.5	3.5	.5	.1	.0	89	1.1	4.6
4	.0	.0	.1	4.3	3.1	.4	.1	.0	125	1.8	6.2
3	.0	.0	.3	6.7	3.8	.4	.0	.0	178	1.7	9.7
2	.0	.0	1.5	7.9	2.7	.2	.1	.0	194	1.7	10.7
1	.0	.0	1.8	9.5	2.2	.3	.0	.1	218	1.9	12.0
0	.0	.1	3.5	7.5	1.8	.1	.0	.0	204	1.8	11.2
-1	.0	.1	3.6	4.0	.4	.0	.0	.0	129	1.0	7.2
-2	.0	.4	2.9	2.4	.4	.1	.0	.0	97	.8	5.3
-3	.0	.5	1.3	1.4	.3	.0	.0	.0	55	.5	3.0
-4	.0	.8	.7	.6	.3	.0	.0	.0	38	.5	1.9
-5	.1	.3	.6	.3	.3	.0	.0	.0	24	.1	1.4
-6	.0	.3	.6	.3	.1	.0	.0	.0	20	.1	1.1
-7/-8	.2	.1	.2	.3	.1	.0	.0	.0	13	.1	.7
-9/-10	.1	.1	.0	.2	.1	.0	.0	.0	7	.1	.4
-11/-13	.0	.0	.1	.3	.1	.0	.0	.0	7	.0	.4
-14/-16	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
-17/-19	.0	.0	.0	.1	.0	.0	.0	.0	2	.0	.1
-23/-25	.0	.0	.1	.0	.0	.0	.0	.0	.	.0	.1
TOTAL	6	42	273	703	386	83	18	2	1573	249	1324
PCT	.4	2.7	17.4	48.5	24.5	5.3	1.1	.1	100.0	15.8	84.2

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	.4	.4	.0	.0	.0	.0	.7
1-2	.0	1.7	.8	.0	.0	.0	2.5
3-4	.0	1.1	1.1	.4	.0	.0	2.6
5-6	.0	.2	2.3	1.0	.3	.0	3.8
7	.0	.0	.7	1.2	.0	.0	1.9
8-9	.0	.0	.1	.7	.0	.0	.8
10-11	.0	.0	.0	.3	.2	.0	.5
12	.0	.0	.0	.5	.0	.0	.5
13-16	.0	.0	.0	.0	.3	.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	.4	3.3	5.1	4.0	.8	.0	13.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6
1-2	.0	1.1	.2	.0	.0	.0	1.2
3-4	.0	.5	1.4	*	.0	.0	2.0
5-6	.0	.0	1.1	.5	*	.0	1.7
7	.0	.0	.3	.4	.0	.0	.7
8-9	.0	.0	.2	.4	.0	.0	.6
10-11	.0	.0	.2	.6	.2	.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	.2	2.0	3.4	2.6	.6	.0	8.7

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	1.1	.0	.0	.0	.0	1.1
3-4	.0	1.1	2.2	.7	.0	.0	4.1
5-6	.0	.0	1.2	.1	.2	.0	1.5
7	.0	.0	.4	.4	.9	.0	1.6
8-9	.0	.0	.5	.7	.0	.0	1.2
10-11	.0	.0	.2	.9	.4	.0	1.5
12	.0	.0	.0	.7	.0	.0	.7
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	.0	3.0	4.5	3.9	1.5	.0	12.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.5	.0	.0	.0	.0	.9
1-2	.2	.5	.3	.0	.0	.0	1.0
3-4	.0	.2	.5	.5	.0	.0	1.1
5-6	.0	.2	.5	.2	.0	.0	1.0
7	.0	.0	.4	.4	.0	.0	.7
8-9	.0	.0	.0	.2	.2	.0	.4
10-11	.0	.0	.2	.5	.2	.0	.9
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	*	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	1.4	1.8	1.8	.4	.0	6.0

PERIOD: (OVER-ALL) 1963-1971

APRIL

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.8W

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	.6	.0	.0	.0	.0	.6	*	.7	.2	.0	.0	.0	.9
1-2	.2	1.7	.6	.0	.0	.0	2.5	.0	1.9	1.8	.0	.0	.0	3.7
3-4	.0	.4	1.1	.2	.0	.0	1.7	.0	1.1	2.1	.4	.0	.0	3.6
5-6	.0	.0	1.5	.1	.0	.0	1.6	.0	.4	2.2	.5	.0	.0	3.1
7	.0	.0	.3	.5	.0	.0	.7	.0	.0	.5	.7	.0	.0	1.1
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.4	.0	.0	.5
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	*	.3	.0	.0	.4
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.2	.0	.0	.2
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	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
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	2.7	3.4	1.5	.1	.0	7.9	*	4.1	6.9	2.9	.0	.2	14.1

	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	.1	1.6	.0	.0	.0	.0	1.7	.2	.8	.0	.0	.0	.0	1.0	
1-2	.0	2.8	2.0	.0	.0	.0	4.8	.0	1.6	.8	.0	.0	.0	2.3	
3-4	.0	1.9	3.0	.7	.0	.0	5.6	.4	.8	.7	.5	.0	.0	2.4	
5-6	.0	.3	1.9	.4	.0	.0	2.6	.0	*	1.3	.5	.2	.0	2.1	
7	.0	.0	.9	1.6	.5	.0	3.0	.0	.0	.5	.6	*	.0	1.1	
8-9	.0	.0	.0	1.3	.2	.0	1.5	.0	.0	.2	.4	.0	.0	.6	
10-11	.0	.0	.2	.5	.0	.0	.7	.0	.0	.0	.2	.0	.0	.2	
12	.0	.0	.1	.5	.4	.0	1.0	.0	.0	.2	.2	.0	.0	.4	
13-16	.0	.0	.0	.7	.5	.2	1.4	.0	.0	.0	.2	.1	.0	.3	
17-19	.0	.0	.0	.3	.2	.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	.2	.2	.0	.4	.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	6.4	8.1	6.2	1.9	.2	22.9	.5	3.2	3.6	2.8	.3	.0	10.4	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	4.9	5.8	.2	.0	.0	.0	10.8	
1-2	1.4	11.9	6.3	.0	.0	.0	19.6	
3-4	.4	7.0	11.9	3.4	.0	.0	22.7	
5-6	.0	1.1	12.1	3.4	.7	.0	17.3	
7	.0	.0	3.8	5.6	1.4	.0	10.8	
8-9	.0	.0	1.1	4.1	.4	.0	5.6	
10-11	.0	.0	.9	3.8	.9	.0	5.4	
12	.0	.0	.4	3.1	.4	.0	3.8	
13-16	.0	.0	.0	1.4	1.4	.2	3.1	
17-19	.0	.0	.0	.4	.2	.0	.5	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.2	.2	.2	.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	
								555
TOT PCT	6.7	25.6	36.6	25.2	5.6	.4	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	.8	8.3	14.1	8.7	2.8	1.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	461	4
6-7	.0	1.4	5.0	6.1	7.6	3.1	2.1	1.1	1.2	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	360	7
8-9	.0	.4	.8	1.2	3.1	2.9	1.7	1.6	1.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	164	8
10-11	.0	.1	.3	.3	.7	.2	.4	.3	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	10
12-13	.0	.0	.6	.0	.3	.1	.2	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	8
>13	.0	.0	.0	.0	.2	.1	.2	.3	.4	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	17	12
INDET	3.5	3.6	3.5	2.3	1.7	.6	.4	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	201	3
TOTAL	55	176	308	236	209	102	66	47	51	9	4	7	0	0	0	0	0	0	0	1270	6
PCT	4.3	13.9	24.3	18.6	16.5	8.0	5.2	3.7	4.0	.7	.3	.6	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1932-1971
(OVER-ALL) 1877-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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 WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	4.6	.5	2.8	.2	.7	.0	.0	8.9	.0	.0	16.2	.5	1.6		.0	72.8
NE	10.4	.4	6.8	.0	1.1	.0	.0	18.1	3.5	.0	26.8	1.3	.1		.0	50.3
E	13.8	1.1	7.3	.0	.3	.3	.3	22.4	2.4	.0	36.8	1.9	.9		.0	35.6
SE	10.7	.7	4.8	.0	.9	.4	.0	17.5	1.2	.0	45.0	1.1	1.0		.0	34.1
S	12.6	1.4	3.3	.0	1.0	.0	.0	18.3	1.0	.6	36.9	.8	1.4		.0	41.3
SW	7.0	1.0	1.4	.0	.4	.0	.0	9.9	1.1	.2	31.9	.6	1.0		.0	55.3
W	2.7	.5	1.0	.0	.2	.0	.0	4.5	.7	.2	15.5	.8	.4		.0	78.2
NW	3.4	1.1	4.3	.2	2.3	.0	.0	10.9	.4	.0	12.3	.7	1.1		.0	74.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	1.6	.0	1.6	.0	.0	.0	.0	3.2	.0	.0	39.7	.0	1.6		.0	55.6
TOT PCT	7.7	.8	3.5	*	.7	.1	*	12.7	1.2	.2	27.9	.9	.9		.0	56.3
TOT OBS:	2535															

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 WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00609	9.4	1.2	3.4	.1	.4	.0	.0	14.5	.7	.3	28.4	.7	.7		.0	54.7
06609	9.4	.7	3.9	.0	1.1	.0	.0	15.0	1.7	.4	26.7	.9	.6		.0	55.0
12615	6.7	.8	2.6	.0	.7	.1	.1	10.6	1.1	.0	30.2	1.1	1.2		.0	55.8
18621	5.6	.6	4.0	.0	.8	.2	.0	11.0	1.4	.0	26.6	1.1	1.0		.0	59.0
TOT PCT	7.7	.8	3.4	*	.7	.1	*	12.6	1.2	.2	28.1	1.0	.9		.0	56.1
TOT OBS:	2596															

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	2.8	3.5	.8	.2	*		7.9	13.3	6.5	9.4	8.4	7.8	9.6	7.5	7.3	6.6
NE	.4	3.4	3.7	1.4	.1	.0		9.0	13.9	9.0	9.0	9.6	12.5	10.1	7.7	6.3	8.9
E	.6	4.3	4.8	1.7	.2	.0		11.6	13.8	11.2	13.0	10.3	12.6	12.4	12.5	11.5	9.6
SE	.5	3.6	3.9	.7	*	.0		8.7	12.4	7.3	9.8	8.5	9.1	8.2	9.5	9.8	8.8
S	.7	5.4	5.2	1.7	.2	.0		13.2	12.8	14.3	12.4	13.9	9.8	13.4	14.5	13.2	10.8
SW	.8	7.2	7.7	2.2	.1	.0		18.0	13.0	19.8	14.4	15.3	12.8	16.7	20.0	20.3	23.4
W	.9	6.4	9.0	2.8	.4	.0		19.4	14.2	20.6	21.6	19.5	19.1	17.5	14.5	20.5	22.5
NW	.5	3.6	3.5	1.6	.4	*		9.6	14.5	8.2	10.0	10.1	14.8	8.7	11.9	9.2	8.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0	3.1	.4	4.3	1.5	3.2	2.0	2.0	1.3
TOT OBS	216	1067	1709	381	48	1	2918		13.2	554	241	399	196	587	255	454	232
TOT PCT	7.4	36.6	41.3	13.1	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	1.8	3.7	1.9	.5	.1		7.9	13.3	7.4	8.2	8.9	7.0
NE	1.6	4.5	2.3	.7	.0		9.0	13.9	9.0	10.6	9.4	7.2
E	2.3	5.5	2.9	.9	.0		11.6	13.8	11.8	11.1	12.4	10.8
SE	1.6	4.8	2.1	.1	.0		8.7	12.4	8.0	8.7	8.6	9.5
S	2.9	6.7	2.9	.6	.0		13.2	12.8	13.7	12.6	13.7	12.4
SW	3.3	9.8	4.0	.9	.0		18.0	13.0	18.1	14.5	17.7	21.3
W	2.9	9.8	5.6	1.1	.0		19.4	14.2	20.9	19.4	16.6	21.2
NW	1.6	4.7	2.5	.7	.1		9.6	14.5	8.7	11.6	9.7	8.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	2.3	3.4	2.9	1.7
TOT OBS	601	1446	707	160	4	2918		13.2	795	595	842	686
TOT PCT	20.6	49.6	24.2	5.5	.1		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1932-1971
(OVER-ALL) 1877-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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	2.3	5.4	36.2	41.5	14.0	.6	.0	13.0	100.0	795
06&09	3.4	4.4	35.3	42.4	12.4	2.0	.2	13.4	100.0	595
12&15	2.9	4.6	39.4	39.7	11.5	1.9	.0	12.7	100.0	842
18&21	1.7	5.0	34.5	42.1	14.4	2.2	.0	13.7	100.0	686
TOT	74	142	1067	1205	381	48	1	13.2		2918
PCT	2.5	4.9	36.6	41.3	13.1	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	2.0	.5	1.5	4.5		5.8
NE	1.2	.3	1.5	6.6		6.7
E	.5	.2	.9	9.2		7.4
SE	.3	.4	1.2	6.9		7.3
S	1.7	.6	2.1	8.8		6.6
SW	4.6	1.1	2.7	9.2		5.5
W	7.1	2.2	4.2	6.2		4.5
NW	2.7	1.0	2.1	3.6		5.1
VAR	.0	.0	.0	.0		.0
CALM	.7	.0	.3	1.6		5.8
TOT OBS	391	116	310	1068	1885	5.9
TOT PCT	20.7	6.2	16.4	56.7	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
.8	*	.2	.4	1.8	1.4	.4	.2	.2	.1	2.8	
1.6	.1	.8	1.0	1.8	1.1	.3	.1	.1	.3	2.3	
3.5	.1	.6	1.2	2.3	1.2	.4	.1	*	.1	1.5	
3.4	.1	.5	.7	1.0	.5	.4	.1	.1	.3	1.6	
4.8	*	.5	.7	1.3	1.0	.4	.3	.3	.2	3.7	
4.7	.3	.3	1.1	1.4	1.0	.5	.2	.2	.5	7.4	
2.1	.0	.2	1.0	2.0	1.3	.6	.2	.2	.7	11.3	
.9	.0	.2	.8	1.2	1.1	.2	*	.1	.2	4.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1.1	.0	.1	.1	.3	.2	.1	.0	.1	.1	.8	
430	19	63	132	247	166	62	24	26	47	676	1885
22.8	.6	3.3	7.0	13.1	8.8	3.3	1.3	1.4	2.5	35.9	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	2.1	3.5	3.8	3.8	3.8	3.8	3.8	3.8
* OR >5000	2.8	4.8	5.0	5.0	5.1	5.1	5.1	5.1
* OR >3500	4.4	7.9	8.2	8.3	8.3	8.3	8.3	8.3
* OR >2000	8.2	16.0	16.7	16.9	17.1	17.2	17.3	17.3
* OR >1000	13.7	26.3	29.5	30.2	30.5	30.6	30.7	30.7
* OR >600	15.6	30.4	35.5	36.7	37.4	37.5	37.6	37.7
* OR >300	15.9	31.4	37.9	39.6	40.5	40.6	40.9	40.9
* OR >150	15.9	31.6	38.3	40.1	41.1	41.2	41.5	41.5
* OR > 0	16.0	32.1	39.5	42.2	44.8	48.8	61.0	64.3
TOTAL	306	615	757	809	858	936	1170	1232

TOTAL NUMBER OF OBS: 1917

PCT FREQ NH <5/8: 35.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
16.2	8.7	5.3	3.0	2.4	2.5	5.0	6.0	30.7	20.3	2060

PERIOD: (PRIMARY) 1932-1971
(OVER-ALL) 1877-1971

TABLE 8

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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	.2	.2	.7	.9	.2	.3	.0	.0	2.9	
	NO PCP	.7	1.4	3.0	3.1	3.5	4.5	1.8	.7	.0	.8	19.6	
	TOT %	.8	1.5	3.2	3.3	4.2	5.0	2.0	1.0	.0	.8	21.9	
1/2<1	PCP	*	.1	.2	.1	.3	.9	.1	.1	.0	.0	1.1	
	NO PCP	.9	.5	.6	.4	.5	.4	.2	.1	.0	*	3.1	
	TOT %	.9	.6	.8	.6	.8	.4	.3	.2	.0	*	4.2	
1<2	PCP	*	.2	.6	.2	.3	.2	.1	*	.0	*	1.6	
	NO PCP	.1	.2	.4	.2	.3	.4	.2	*	.0	.0	1.8	
	TOT %	.1	.4	.9	.5	.6	.5	.3	.1	.0	*	3.4	
2<5	PCP	.1	.8	.9	.3	.3	.5	.2	.3	.0	*	3.2	
	NO PCP	.4	.5	.6	.4	.8	.8	.6	.3	.0	.1	4.4	
	TOT %	.4	1.3	1.5	.7	1.1	1.1	.8	.6	.0	.1	7.7	
5<10	PCP	.4	.6	.7	.5	.7	.6	.3	.2	.0	.0	4.1	
	NO PCP	2.2	1.9	1.9	1.7	2.8	4.0	5.2	2.4	.0	.5	22.8	
	TOT %	2.6	2.5	2.6	2.3	3.6	4.6	5.5	2.7	.0	.5	26.9	
10+	PCP	.1	*	*	*	.1	*	.0	*	.0	.0	.4	
	NO PCP	3.7	3.1	2.4	1.4	3.2	6.2	9.8	4.8	.0	1.0	35.5	
	TOT %	3.8	3.1	2.4	1.4	3.3	6.2	9.8	4.8	.0	1.0	35.9	
	TOT OBS												2528
	TOT PCT	8.0	9.4	11.5	8.8	13.6	18.1	18.8	9.3	.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	.1	.2	.3	.2	.2	.2	.2	*	.0	.7	2.0	
	4-10	.3	.6	1.4	1.3	1.5	2.1	.9	.5	.0		8.7	
	11-21	.3	.5	1.5	1.6	1.6	2.0	.7	.3	.0		8.6	
	22+	.0	.1	.1	*	.8	.6	.2	.1	.0		1.8	
	TOT %	.7	1.5	3.3	3.2	4.0	4.8	2.0	1.0	.0	.7	21.2	
1/2<1	0-3	*	*	.0	*	*	.0	*	*	.0	*	.2	
	4-10	.1	.2	.2	.2	.3	.1	.1	.1	.0		1.4	
	11-21	.1	.1	.4	.3	.4	.3	.1	.1	.0		1.8	
	22+	.1	.1	.1	*	.1	.2	.0	*	.0		.7	
	TOT %	.3	.5	.8	.5	.8	.6	.3	.2	.0	*	4.0	
1<2	0-3	.0	*	*	.0	.0	.0	*	.0	.0	*	.1	
	4-10	*	.1	.3	.1	.1	.1	.0	.0	.0		.8	
	11-21	.1	.2	.5	.2	.3	.2	.2	.1	.0		1.6	
	22+	*	*	.2	.1	.2	.1	.1	.0	.0		.8	
	TOT %	.1	.4	1.0	.5	.6	.5	.3	.1	.0	*	3.4	
2<5	0-3	.0	.1	*	.0	.1	*	.0	*	.0	.1	.4	
	4-10	.2	.2	.3	.2	.5	.5	.2	.2	.0		2.3	
	11-21	.2	.5	.5	.3	.3	.5	.5	.2	.0		3.0	
	22+	.1	.5	.6	.1	.3	.2	.1	.2	.0		2.2	
	TOT %	.5	1.4	1.5	.7	1.1	1.2	.9	.6	.0	.1	7.9	
5<10	0-3	.1	.0	*	.1	.1	.1	.3	.1	.0	.5	1.4	
	4-10	.6	.6	.9	.9	1.2	1.4	1.6	.8	.0		8.0	
	11-21	1.4	1.2	.8	.8	1.6	2.1	2.3	1.2	.0		11.5	
	22+	.4	.5	.7	.3	.4	.7	1.2	.5	.0		4.7	
	TOT %	2.5	2.3	2.5	2.1	3.3	4.4	5.4	2.6	.0	.5	25.7	
10+	0-3	.4	*	.1	.1	.3	.6	.3	.3	.0	1.0	3.0	
	4-10	1.7	1.4	1.0	.6	1.6	2.7	3.3	2.0	.0		14.4	
	11-21	1.5	1.2	1.2	.7	1.3	2.8	5.3	1.9	.0		15.9	
	22+	.5	.3	.1	.1	.2	.5	1.7	1.1	.0		4.6	
	TOT %	4.0	3.0	2.5	1.5	3.4	6.5	10.6	5.3	.0	1.0	37.8	
	TOT OBS												2733
	TOT PCT	8.1	9.1	11.5	8.5	13.2	18.0	19.5	9.8	.0	2.5	100.0	

PERIOD: (PRIMARY) 1932-1971
(OVER-ALL) 1877-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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	23.9	.6	2.7	5.8	16.4	7.1	3.7	1.3	1.5	2.1	65.1	34.9	519
06&09	22.9	.5	2.9	9.5	10.5	11.9	2.4	1.5	.7	1.0	63.7	36.3	411
12&15	22.8	1.0	3.8	7.3	12.7	8.6	3.3	1.0	1.5	2.9	64.9	35.1	521
18&21	19.8	.4	3.4	9.2	12.2	8.2	3.2	1.1	1.3	3.2	58.2	41.8	524
TOT	441	12	64	134	258	174	63	24	26	47	1243	732	1975
PCT	22.3	.6	3.2	6.8	13.1	8.8	3.2	1.2	1.3	2.4	62.9	37.1	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	22.1	4.5	3.1	7.7	26.3	36.3	754
06&09	20.6	4.5	4.1	7.2	24.7	38.8	582
12&15	21.4	4.2	3.5	9.4	25.4	36.0	794
18&21	21.7	3.0	3.0	6.9	25.3	40.2	669
TOT	602	113	95	221	713	1055	2799
PCT	21.5	4.0	3.4	7.9	25.5	37.7	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 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	24.3	28.9	39.7	28.5	31.8	506
06&09	23.5	28.5	41.3	24.5	34.3	400
12&15	23.4	29.0	42.7	25.6	31.7	504
18&21	20.3	27.4	35.7	26.2	38.1	507
TOT	438	545	762	504	691	1917
PCT	22.8	28.4	39.7	26.3	34.0	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
55/59	.0	.0	.0	.1	.1	.0	.1	.1	7	.4
50/54	.0	.0	.1	.0	.2	.2	.3	.2	15	.8
45/49	.0	.0	.0	.2	.8	2.1	1.9	4.0	166	9.0
40/44	.0	.0	.1	.3	.8	3.3	10.5	22.3	685	37.2
35/39	.0	.0	.0	.3	.6	2.7	11.5	32.0	867	47.1
30/34	.0	.0	.0	.0	.2	.5	1.5	3.3	101	5.5
TOTAL	0	0	2	15	49	161	476	1138	1841	100.0
PCT	.0	.0	.1	.8	2.7	8.7	25.9	61.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	*	*	.1	.0	.1	.2	*	.0	.0
.0	.1	.0	.1	.2	.2	.2	.1	.0	.1
.2	.2	.6	.8	2.3	2.8	1.2	.6	.0	.3
2.0	3.0	3.6	4.8	6.6	7.2	6.3	2.7	.0	1.1
4.3	5.3	6.5	3.4	4.7	7.0	10.4	4.6	.0	.9
.7	.7	.5	.1	.3	.7	1.4	1.1	.0	.0
7.1	9.3	11.2	9.2	14.1	17.8	19.7	9.1	.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	56	49	45	39	34	32	30	38.9	802
06&09	53	49	45	38	34	32	30	38.4	605
12&15	58	49	47	40	35	32	30	40.0	845
18&21	61	54	48	41	35	33	31	41.1	694
TOT	61	50	46	39	34	32	30	39.6	2946

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	1.2	1.8	7.2	24.4	65.3	90	487
06&09	.0	.3	1.8	4.8	24.0	69.3	91	400
12&15	.0	.8	2.1	8.9	25.9	62.4	90	529
18&21	.0	1.3	5.2	13.6	28.9	51.1	88	464
TOT	0	17	51	164	486	1162	90	1880

MAY

PERIOD: (PRIMARY) 1932-1971
(OVER-ALL) 1877-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	*	*	2	.0	.1
14/16	.0	.0	.0	.0	.2	.1	.1	.0	9	*	.4
11/13	.0	.0	.0	.1	.4	.3	.0	.0	19	.4	.4
9/10	.0	.0	.2	.9	1.4	.7	*	.0	72	1.2	2.1
7/8	.0	.0	.9	2.5	2.7	.2	.0	.0	133	2.0	4.0
6	.0	.2	1.6	2.8	1.2	.1	.0	.0	132	2.1	3.8
5	.0	.4	3.6	3.2	1.0	.1	.0	.0	185	2.6	5.7
4	*	.8	5.7	3.7	.6	.1	.0	.0	246	3.0	7.9
3	*	1.0	6.8	3.5	.7	.0	.0	.0	270	3.6	8.5
2	.1	3.0	6.8	2.9	.6	.0	.0	.0	302	4.1	9.3
1	.2	4.6	7.0	2.1	*	.0	.0	.0	311	3.7	10.2
0	.2	3.1	5.2	1.8	.2	*	.0	.0	238	2.8	7.8
-1	.1	2.5	2.7	.7	.0	*	.0	.0	134	1.2	4.7
-2	.1	1.6	1.7	.4	*	*	.0	.0	89	.7	3.3
-3	.3	.9	.7	.3	.0	.0	.0	.0	49	.7	1.5
-4	.0	.4	.4	.1	*	.0	.0	.0	20	.2	.7
-5	*	*	.3	.1	.0	.0	.0	.0	12	.2	.3
-6	*	.0	.1	.1	.0	.0	.0	.0	5	.1	.1
-7/-8	*	.2	.2	.0	.0	.0	.0	.0	10	.1	.3
-9/-10	.0	.0	.1	.0	.0	.0	.0	.0	3	.0	.1
-11/-13	.0	.0	.0	*	.0	.0	.0	.0	1	.0	*
TOTAL	28	420	987	588	194	37	7	1	2242	645	1597
PCT	1.2	18.7	44.0	25.3	8.7	1.7	.3	*	100.0	28.8	71.2

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	.5	.9	.0	.0	.0	.0	1.4
1-2	.0	1.4	.8	.0	.0	.0	2.2
3-4	.0	.5	1.4	.2	.0	.0	2.0
5-6	.0	.3	.6	.2	.0	.0	1.0
7	.0	.2	.3	.1	.0	.1	.6
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	.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	.5	3.2	3.4	.6	.0	.1	7.8

NE

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	1.2	.7	.0	.0	.0	1.9
3-4	.0	1.3	1.0	.3	.0	.0	2.6
5-6	.0	.0	.8	.2	.0	.0	1.0
7	.0	.0	.7	.2	.0	.0	.9
8-9	.0	.0	.0	.2	.2	.0	.3
10-11	.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.0	.2	.2	.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	.4	3.1	3.2	1.6	.3	.0	8.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.1	.3	.0	.0	.0	1.5
1-2	.2	1.1	.7	.0	.0	.0	2.0
3-4	.0	1.4	2.4	.0	.0	.0	3.7
5-6	.0	.2	1.4	.3	.0	.0	1.8
7	.0	.2	1.0	.2	.0	.0	1.3
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.3	.2	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.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	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	3.8	6.1	1.3	.3	.0	11.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.3	1.5	.1	.0	.0	.0	1.9
3-4	.0	.7	1.1	.0	.0	.0	1.8
5-6	.0	.5	1.0	*	.0	.0	1.5
7	.0	.0	.9	.0	.0	.0	.9
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	.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	.3	2.9	3.0	.5	.0	.0	6.7

PERIOD: (OVER-ALL) 1963-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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	.8	.0	.0	.0	.0	1.1
1-2	.2	2.8	1.1	.0	.0	.0	4.1
3-4	.0	1.2	2.2	.3	.0	.0	3.7
5-6	.0	.7	1.5	.6	.1	.0	2.9
7	.0	.1	.2	.2	.2	.0	.6
8-9	.0	.0	.2	.5	.0	.0	.7
10-11	.0	.0	.0	.4	.2	.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	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	5.1	2.5	.6	.0	14.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	*	.0	.0	.0	1.3
1-2	.2	2.3	2.3	.0	.0	.0	4.8
3-4	.0	1.6	2.4	.3	.0	.0	4.4
5-6	.0	.5	1.8	.6	*	.0	2.9
7	.0	*	.9	1.1	.0	.0	2.0
8-9	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.3	.4	.0	.0	.7
12	.0	.0	.2	.4	*	.0	.6
13-16	.0	.0	.2	.5	.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	.9	5.4	8.1	3.8	.1	.0	17.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.4	.1	.0	.0	.0	1.7
1-2	.0	2.6	2.5	.0	.0	.0	5.1
3-4	.0	1.5	3.5	.4	.0	.0	5.4
5-6	.0	.3	2.9	.8	.0	.0	4.0
7	.0	.0	1.8	.6	.2	.0	2.5
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.3	.9	.0	.0	1.2
12	.0	.0	.0	.0	.3	.0	.3
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	5.8	11.2	2.9	.4	.0	20.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.6	.0	.0	.0	.0	.8	
1-2	.2	1.4	.4	.0	.0	.0	1.9	
3-4	.0	.5	1.8	.2	.0	.0	2.5	
5-6	.0	.2	1.2	.7	.2	.0	2.3	
7	.0	.0	.5	.5	.2	*	1.2	
8-9	.0	.0	*	.2	.0	.0	.2	
10-11	.0	.0	.0	.2	.0	.0	.2	
12	.0	.0	.3	.0	.0	.0	.3	
13-16	.0	.0	.0	*	.0	.0	*	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	4.3	1.8	.3	*	9.5	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	5.2	6.7	.4	.0	.0	.0	12.4	
1-2	.9	14.2	8.5	.0	.0	.0	23.7	
3-4	.0	8.7	15.6	1.6	.0	.0	25.9	
5-6	.0	2.5	11.1	3.3	.3	.0	17.2	
7	.0	.4	6.3	3.7	.4	.1	10.0	
8-9	.0	.0	.7	1.8	.1	.0	2.7	
10-11	.0	.0	.9	3.0	.1	.0	4.0	
12	.0	.0	.4	1.0	.4	.0	1.9	
13-16	.0	.0	.1	1.3	.4	.0	1.9	
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	
								667
TOT PCT	6.1	32.7	44.2	14.8	1.9	.1	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	9.3	14.1	8.4	3.9	.7	.6	.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	596	4
6-7	.1	.6	6.5	9.1	6.8	2.4	2.0	.4	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	432	6
8-9	.0	.2	2.0	2.1	1.6	1.3	1.4	1.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	155	7
10-11	.0	.5	.4	.5	.5	.3	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	6
12-13	.0	.0	.3	.3	.3	.3	.1	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	22	9
>13	.0	.0	.0	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
INDET	4.0	3.9	4.5	2.4	1.8	.4	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	265	3
TOTAL	88	221	421	349	229	82	67	31	22	7	1	1	1	0	0	0	0	0	0	1520	5
PCT	5.8	14.5	27.7	23.0	15.1	5.4	4.4	2.0	1.4	.5	.1	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1931-1971
(OVER-ALL) 1869-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.2W

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	4.8	.7	.0	.0	.0	.0	.0	5.5	.0	.0	16.6	.7	.6		.0	76.6
NE	13.5	.8	4.4	.0	.0	.0	.0	18.3	3.2	.0	17.9	2.3	.2		.0	58.1
E	16.4	.9	7.6	.0	.0	.0	.0	24.5	3.3	.0	30.8	.0	1.1		.0	40.2
SE	12.2	1.2	5.1	.0	.0	.0	.0	18.3	.5	.5	38.6	.9	.0		.0	41.7
S	5.0	.3	2.0	.0	.0	.0	.0	7.1	1.0	.2	55.2	.2	1.8		.0	34.5
SW	3.3	.5	2.6	.0	.0	.0	.0	6.3	.9	.4	42.5	1.5	1.3		.2	47.1
W	2.0	.5	.8	.0	.0	.0	.0	3.3	1.0	.6	21.9	1.1	1.1		.0	71.1
NW	1.5	.8	.8	.0	.0	.0	.0	3.0	.4	.4	21.1	1.0	.0		.0	74.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	1.5	.0	1.5	.0	.0	.0	.0	2.9	.0	.0	41.2	5.9	.0		.0	50.0
TOT PCT	5.7	.6	2.6	.0	.0	.0	.0	8.8	1.1	.3	35.5	1.1	1.0		*	52.2
TOT OBS:	2270															

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
0003	5.8	.6	3.3	.0	.0	.0	.0	9.4	.9	.4	34.2	.9	.9		.1	53.2
0609	8.7	1.2	3.2	.0	.0	.0	.0	13.2	1.4	.6	33.3	1.0	.6		.0	50.1
1215	4.0	.2	1.8	.0	.0	.0	.0	6.0	.8	.0	37.9	1.2	1.8		.0	52.4
1821	4.7	.5	1.8	.0	.0	.0	.0	7.1	1.3	.2	36.9	1.6	.5		.0	52.4
TOT PCT	5.7	.6	2.5	.0	.0	.0	.0	8.8	1.1	.3	35.6	1.2	1.0		*	52.2
TOT OBS:	2320															

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	2.4	2.0	.9	*	.0		5.6	13.2	3.2	4.8	7.5	5.4	9.1	5.8	4.9	2.9
NE	.5	2.3	1.9	.8	.0	*		5.6	12.1	6.7	4.7	5.8	3.7	5.6	6.7	4.9	5.3
E	.8	2.9	3.2	.6	.1	*		7.6	11.9	7.8	7.4	7.4	5.1	7.2	8.2	7.9	9.6
SE	.8	3.7	3.8	.9	.1	.0		9.4	12.3	11.2	10.7	7.9	13.4	7.4	9.1	8.2	9.0
S	1.2	7.0	7.2	1.4	.1	.0		17.0	11.8	17.5	17.2	15.0	12.7	15.9	14.0	19.0	23.4
SW	1.0	10.3	13.8	2.4	.2	.1		27.9	13.0	28.0	29.7	28.3	28.4	26.9	29.2	26.5	28.4
W	.8	7.4	7.5	2.0	.2	.1		18.0	12.9	19.5	16.1	16.9	20.1	16.9	17.4	19.8	16.4
NW	.4	2.4	3.4	.5	.1	.0		5.8	12.1	3.7	5.9	6.2	8.7	7.8	6.5	6.0	2.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2							3.2	.0	2.5	3.6	5.1	2.3	3.3	3.1	2.8	2.3
TOT OBS	241	1012	1105	249	20	4	2630		12.1	564	225	369	175	486	195	394	222
TOT PCT	9.2	38.5	42.0	9.4	.8	.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	1.2	2.6	1.5	.3	*		5.6	13.2	3.7	6.8	8.1	4.2
NE	1.5	2.9	.9	.3	*		5.6	12.1	6.1	5.1	5.9	5.0
E	1.9	4.0	1.4	.2	*		7.6	11.9	7.7	6.7	7.5	8.5
SE	2.2	4.7	1.9	.4	*		9.4	12.3	11.0	9.7	7.9	8.5
S	4.2	8.7	3.8	.2	*		17.0	11.8	17.4	14.2	15.4	20.6
SW	4.4	16.1	6.7	.6	.1		27.9	13.0	28.5	28.3	27.5	27.2
W	3.5	9.8	4.1	.6	.1		18.0	12.9	18.5	17.9	17.0	18.6
NW	1.3	3.2	1.2	.1	*		5.8	12.1	4.3	7.0	7.4	4.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.2						3.2	.0	2.8	4.2	3.2	2.6
TOT OBS	615	1368	568	71	8	2630		12.1	789	544	681	616
TOT PCT	23.4	52.0	21.6	2.7	.3		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1931-1971
(OVER-ALL) 1869-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.2W

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	2.8	7.1	37.0	41.8	10.4	.8	.1	12.2	100.0	789
06&09	4.2	4.2	37.1	44.3	9.0	.9	.2	12.4	100.0	544
12&15	3.2	6.5	39.6	41.4	8.7	.6	.0	11.8	100.0	681
18&21	2.6	5.7	40.3	40.9	9.4	.8	.3	12.3	100.0	616
TOT	83	198	1012	1105	248	20	4	12.1		2630
PCT	3.2	6.0	38.5	42.0	9.4	.8	.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	1.1	.4	1.7	3.4		6.0
NE	.4	.2	1.0	4.2		7.0
E	.4	.1	1.0	5.9		7.3
SE	1.0	.3	1.4	5.7		6.7
S	2.0	.5	2.0	11.8		6.7
SW	6.3	2.2	4.3	15.5		5.7
W	7.5	1.7	4.1	4.9		4.3
NW	2.0	.6	1.4	2.2		4.9
VAR	.0	.0	.0	.0		.0
CALM	.7	.2	.2	1.7		5.6
TOT OBS	360	102	288	928	1678	5.9
TOT PCT	21.5	6.1	17.2	55.3	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	.6	.0	*	.3	1.9	1.0	.4	.1	.1	.0	2.8	
NE	.8	.1	.4	.9	1.5	.8	.3	.0	.2	*	1.0	
E	1.7	.1	.7	1.0	1.7	.4	.3	.1	.0	.2	1.2	
SE	3.3	*	.3	.5	1.0	.6	*	.1	.0	.3	2.1	
S	8.2	.1	.4	.7	1.1	.8	.4	.0	.3	.6	5.8	
SW	10.6	.1	.3	.7	2.2	1.5	.5	.3	.3	.5	11.4	
W	2.7	.1	.4	.2	1.0	1.2	.5	*	.2	.8	11.0	
NW	1.0	.1	.0	.2	.3	.7	.3	.2	.1	.1	3.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.0	.1	.0	.2	.2	.2	.0	.0	.0	.1	1.0	
TOT OBS	503	16	41	80	183	122	44	13	21	42	619	1678
TOT PCT	30.0	.6	2.4	4.8	10.9	7.3	2.6	.8	1.3	2.5	36.9	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	2.0	3.5	3.7	3.7	3.8	3.8	3.8	3.8
* OR >5000	2.4	4.2	4.4	4.4	4.5	4.6	4.6	4.6
* OR >3500	3.8	6.5	6.9	7.0	7.1	7.2	7.2	7.2
* OR >2000	7.9	12.8	14.0	14.2	14.4	14.5	14.5	14.5
* OR >1000	12.2	21.3	24.3	24.9	25.1	25.3	25.3	25.3
* OR >600	13.4	24.1	28.5	29.3	29.6	30.0	30.0	30.0
* OR >300	13.9	25.2	30.2	31.2	31.7	32.2	32.4	32.4
* OR >150	13.9	25.4	30.6	31.6	32.2	32.7	33.0	33.0
* OR > 0	13.9	25.4	31.2	33.5	36.4	41.1	58.5	63.1
TOTAL	235	429	526	565	613	693	986	1064

TOTAL NUMBER OF OBS: 1686

PCT FREQ NH <5/8: 36.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
17.6	7.2	5.3	3.9	2.0	3.1	3.8	6.2	22.9	27.8	1772

JUNE

PERIOD: (PRIMARY) 1931-1971
(OVER-ALL) 1869-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.2W

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	*	.1	.2	.5	.5	.9	.1	*	.0	.0	1.9	
<1/2	NO PCP	.6	.5	1.3	2.7	7.8	9.2	2.9	.9	.0	1.1	26.9	
	TOT %	.6	.6	1.5	3.2	8.2	9.6	3.1	.9	.0	1.1	28.8	
	PCP	.0	.1	.1	.4	.2	.1	*	.0	.0	.1	1.0	
1/2<1	NO PCP	.2	.2	.5	.4	.7	1.1	.4	.3	.0	.0	3.7	
	TOT %	.2	.3	.6	.7	.9	1.2	.5	.3	.0	.1	4.7	
	PCP	.0	*	.3	.2	*	.1	*	.0	.0	.0	.7	
1<2	NO PCP	.1	.2	.2	.3	.2	.5	.2	.1	.0	.1	1.9	
	TOT %	.1	.2	.5	.5	.2	.6	.2	.1	.0	.1	2.5	
	PCP	.1	.4	.8	.3	.2	.3	*	.0	.0	.0	2.0	
2<5	NO PCP	.2	.4	.4	.5	.7	1.8	.8	.1	.0	.1	5.0	
	TOT %	.2	.7	1.2	.8	.9	2.1	.8	.1	.0	.1	7.0	
	PCP	.2	.4	.4	.4	.3	.7	.2	.1	.0	.0	2.7	
5<10	NO PCP	1.2	1.7	1.9	1.7	3.0	5.4	4.2	1.5	.0	.5	21.1	
	TOT %	1.4	2.1	2.3	2.1	3.3	6.1	4.4	1.6	.0	.5	23.8	
	PCP	.0	.1	.1	*	*	.1	.1	.1	.0	.0	.5	
10+	NO PCP	3.5	1.8	1.4	2.2	3.3	7.9	8.6	2.8	.0	1.1	32.7	
	TOT %	3.5	1.9	1.5	2.2	3.3	8.0	8.8	2.9	.0	1.1	33.2	
	TOT OBS												2267
	TOT PCT	6.0	5.8	7.7	9.5	16.9	27.6	17.8	5.8	.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
	0-3	.2	.1	.1	.5	.5	.3	.2	.1	.0	1.1	3.0	
<1/2	4-10	.3	.5	.7	1.2	3.0	3.5	1.6	.5	.0		11.4	
	11-21	.1	.1	.6	1.3	4.0	4.8	1.0	.2	.0		12.1	
	22+	.0	.0	.1	.3	.8	1.0	.2	*	.0		2.4	
	TOT %	.6	.7	1.5	3.2	8.3	9.6	3.0	.9	.0	1.1	28.8	
	0-3	.0	.0	.1	*	.1	*	*	*	.0	.1	.4	
1/2<1	4-10	.1	.2	.3	.3	.2	.4	.2	.2	.0		1.7	
	11-21	.1	*	.1	.3	.4	.6	.2	.1	.0		1.7	
	22+	*	.1	.1	*	.3	.1	*	.0	.0		.6	
	TOT %	.2	.3	.5	.7	.8	1.1	.4	.2	.0	.1	4.4	
	0-3	.0	*	*	*	.0	.0	.0	*	.0	.1	.2	
1<2	4-10	*	*	*	.2	.1	.1	.1	*	.0		.6	
	11-21	.1	.2	.3	.1	.2	.4	.1	*	.0		1.3	
	22+	.0	.0	.1	.2	*	.1	*	.0	.0		.5	
	TOT %	.1	.2	.5	.6	.3	.5	.2	.1	.0	.1	2.5	
	0-3	.0	*	.1	.0	.1	*	.0	.0	.0	.1	.4	
2<5	4-10	.1	.2	.3	.3	.2	.6	.3	*	.0		1.9	
	11-21	.1	.3	.6	.2	.5	1.1	.4	*	.0		3.1	
	22+	.1	.2	.3	.2	.1	.3	.1	.1	.0		1.4	
	TOT %	.3	.8	1.2	.7	.9	2.0	.8	.1	.0	.1	6.8	
	0-3	.1	.1	.1	.1	.3	.1	.1	.2	.0	.5	1.6	
5<10	4-10	.3	.6	.9	.7	1.5	2.2	1.8	.5	.0		8.4	
	11-21	.5	.8	1.1	.9	1.2	2.8	1.5	.8	.0		9.6	
	22+	.5	.4	.2	.2	.2	.7	.8	.2	.0		3.2	
	TOT %	1.4	1.9	2.2	1.9	3.1	5.9	4.3	1.6	.0	.5	22.8	
	0-3	.1	.2	.4	.2	.2	.4	.5	.1	.0	1.1	3.2	
10+	4-10	1.6	.9	.8	1.0	1.9	3.4	2.8	1.2	.0		13.6	
	11-21	1.4	.7	.7	1.0	1.2	4.1	4.6	1.4	.0		15.0	
	22+	.4	.1	*	.1	.1	.5	1.2	.3	.0		2.8	
	TOT %	3.4	1.9	1.9	2.3	3.4	8.4	9.0	3.1	.0	1.1	34.6	
	TOT OBS												2462
	TOT PCT	5.9	5.8	7.9	9.4	16.8	27.6	17.7	5.9	.0	3.0	100.0	

JUNE

PERIOD: (PRIMARY) 1931-1971
(OVER-ALL) 1869-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.2W

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	28.1	.2	2.9	5.3	10.9	6.6	2.7	1.0	1.4	2.5	61.5	38.5	488
06&09	33.6	.3	3.1	4.7	9.7	6.7	3.3	.3	.6	3.6	65.8	34.2	360
12&15	28.5	.7	1.7	4.3	10.8	9.3	2.2	.5	1.4	1.2	60.5	39.5	418
18&21	29.7	1.1	2.0	4.3	11.5	6.5	2.3	1.1	1.6	2.7	62.8	37.2	444
TOT	509	10	41	80	184	124	44	13	22	42	1069	641	1710
PCT	29.8	.6	2.4	4.7	10.8	7.3	2.6	.8	1.3	2.5	62.5	37.5	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	29.2	3.9	2.0	6.4	24.2	34.3	749
06&09	27.2	5.7	2.9	6.9	20.8	36.6	525
12&15	29.3	4.4	2.2	7.0	22.9	34.3	642
18&21	29.7	4.0	3.5	6.7	23.4	32.7	599
TOT	728	111	65	169	577	865	2515
PCT	28.9	4.4	2.6	6.7	22.9	34.4	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	28.3	34.1	44.3	21.2	34.5	481
06&09	34.0	38.2	46.1	21.9	32.0	356
12&15	29.2	33.8	44.8	20.4	34.8	411
18&21	30.4	36.3	46.1	21.7	32.2	438
TOT	510	598	763	359	564	1686
PCT	30.2	35.5	45.3	21.3	33.5	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
65/69	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
60/64	.0	.0	.1	.1	.1	.0	.1	.1	6	.4
55/59	.0	.0	.0	.1	.9	.3	.6	.5	28	1.8
50/54	.0	.0	.0	.1	.4	1.8	5.5	9.1	266	17.0
45/49	.0	.0	.0	.3	.4	3.8	10.3	27.2	659	42.1
40/44	.0	.0	.0	.0	.2	1.3	7.8	24.3	525	33.5
35/39	.0	.0	.0	.0	.0	.1	.6	4.6	82	5.2
TOTAL	0	0	1	9	23	113	391	1030	1567	100.0
PCT	.0	.0	.1	.6	1.5	7.2	25.0	65.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	*	.2	.1	.1	.0	.0
	.0	*	.2	*	.4	.8	.3	.1	.0	.0
	.3	.2	.4	1.7	4.4	6.4	2.9	.5	.0	.3
	2.5	1.6	2.9	4.2	6.9	12.1	7.9	2.0	.0	1.9
	2.8	2.9	3.6	2.6	4.8	7.5	6.1	2.1	.0	1.0
	.6	1.0	.7	.5	.5	.6	.5	.3	.0	.4
	6.1	5.8	7.8	9.1	17.0	27.6	17.9	5.1	.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	59	55	53	45	40	38	37	45.5	790
06&09	57	54	52	45	38	37	35	44.7	552
12&15	64	59	54	46	40	38	37	46.7	690
18&21	65	60	55	47	40	38	37	47.4	615
TOT	65	58	54	46	40	38	35	46.1	2647

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	1.0	6.8	22.6	69.2	92	483
06&09	.0	.3	.0	4.6	16.6	78.5	94	349
12&15	.0	.8	2.8	9.9	28.2	58.3	90	393
18&21	.0	1.1	1.9	7.3	32.3	57.4	90	371
TOT	0	10	23	115	398	1050	91	1596

JUNE

PERIOD: (PRIMARY) 1931-1971
(OVER-ALL) 1869-1971

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.2W

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	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	*	1	*	.0
17/19	.0	.0	.0	.0	.0	*	.1	*	.0	4	*	.1
14/16	.0	.0	.0	.0	.1	.1	.1	*	.0	9	.1	.3
11/13	.0	.0	.1	.1	.3	.4	.3	*	.0	27	.5	.8
9/10	.0	.0	.1	.8	1.0	.9	*	*	.0	50	.7	1.8
7/8	.0	.0	.7	2.6	2.3	.9	.1	.0	.0	133	2.5	4.0
6	.0	.1	1.6	3.1	2.1	.6	*	*	.0	156	2.8	4.9
5	.0	.2	2.2	4.3	2.9	.5	.0	.0	.0	206	4.2	6.0
4	.0	.7	3.2	5.0	2.1	.2	.0	.0	.0	231	3.4	7.9
3	.0	1.1	4.2	5.3	2.4	.4	*	.0	.0	272	4.8	8.6
2	.0	1.2	4.7	5.7	1.2	.3	.0	.0	.0	265	4.3	8.8
1	.0	2.0	4.4	3.3	1.5	.2	.0	.0	.0	232	4.6	6.8
0	*	1.4	3.8	3.0	1.2	.3	*	.0	.0	201	3.0	6.9
-1	.0	1.1	1.6	1.8	.6	.1	.0	.0	.0	105	2.6	2.6
-2	*	.8	1.2	.5	.3	*	.0	.0	.0	60	1.0	1.9
-3	*	.5	.5	.2	.2	.0	.0	.0	.0	31	.5	1.0
-4	.0	.5	.2	.1	*	.0	.0	.0	.0	19	.4	.5
-5	.0	.1	.1	.4	*	.0	.0	.0	.0	14	.3	.3
-6	.0	*	*	.2	.0	.0	.0	.0	.0	6	.2	*
-7/-8	.0	.0	.1	.2	.0	.0	.0	.0	.0	8	.0	.4
-9/-10	.0	*	*	*	.0	.0	.0	.0	.0	3	*	.1
TOTAL	3	200	592	749	371	93	18	6	1	2033	736	1297
PCT	.1	9.8	29.1	36.8	18.2	4.6	.9	.3	*	100.0	36.2	63.8

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	.4	.0	.0	.0	.0	.5
1-2	.1	.9	.5	.0	.0	.0	1.6
3-4	.0	.8	.8	.0	.0	.0	1.6
5-6	.0	.4	.5	.1	.0	.0	1.0
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1
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	.3	2.4	2.0	.5	.0	.0	5.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.0	.0	.0	.0	.0	.4
1-2	*	1.4	.2	.0	.0	.0	1.7
3-4	.0	.6	.6	.2	.0	.0	1.4
5-6	.0	.2	.4	.4	.0	.0	.9
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
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	.4	2.3	1.9	.6	.0	.0	4.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.7	.6	.5	.0	.0	.0	1.9
3-4	.0	.5	1.7	.0	.0	.0	2.1
5-6	.0	.2	.4	.8	.4	.0	1.7
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	.7	2.0	2.6	1.1	.4	.0	6.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6
1-2	.4	.7	.8	.0	.0	.0	1.9
3-4	.0	.1	1.6	.0	.0	.0	1.8
5-6	.0	*	.4	*	.0	.0	.5
7	.0	.0	.5	.2	.0	.0	.6
8-9	.0	.0	.2	*	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.2
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	.6	1.2	3.4	.6	.0	.0	5.9

PERIOD: (OVER-ALL) 1963-1971

JUNE

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.2W

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	.0	.3	.0	.0	.0	.6
1-2	.8	1.7	1.7	.0	.0	.0	4.2
3-4	.0	2.3	3.5	.4	.0	.0	6.2
5-6	.0	.5	2.4	.5	.0	.0	3.4
7	.0	.0	1.3	.2	.0	.0	1.4
8-9	.0	.1	.0	.4	.0	.0	.5
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	1.1	4.7	9.1	1.5	.0	.0	16.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.2	.0	.0	.0	1.6
1-2	.5	4.3	1.8	.0	.0	.0	6.5
3-4	.0	4.0	9.7	*	.0	.0	13.7
5-6	.0	.5	5.0	1.2	.0	.0	6.7
7	.0	.4	3.2	.4	.0	.0	4.0
8-9	.0	*	.5	.8	.0	.0	1.3
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	.5	10.5	20.5	2.8	.0	.0	34.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.3	2.1	1.6	.0	.0	.0	4.1
3-4	.0	1.7	4.8	.7	.0	.0	7.2
5-6	.0	.4	2.0	.7	.0	.0	3.1
7	.0	.2	1.2	.5	.0	.0	1.8
8-9	.0	.0	.3	.3	.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	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	9.9	2.6	.0	.0	17.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.4	.0	.0	.0	.0	.5	
1-2	.0	.9	.6	.0	.0	.0	1.4	
3-4	.0	.2	.2	.2	.0	.0	.6	
5-6	.0	.0	.9	*	.0	.0	.9	
7	.0	.2	.5	.4	.0	.0	1.1	
8-9	.0	.0	.0	.2	.0	.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	.2	1.6	2.2	.9	.0	.0	4.9	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	5.6	3.7	.5	.0	.0	.0	9.9	
1-2	3.9	12.9	7.6	.0	.0	.0	24.3	
3-4	.0	10.1	22.4	1.4	.0	.0	33.9	
5-6	.0	2.1	11.6	3.7	.4	.0	17.8	
7	.0	.7	7.1	1.6	.0	.0	9.3	
8-9	.0	.2	.9	1.9	.0	.0	3.0	
10-11	.0	.0	.0	1.1	.0	.0	1.1	
12	.0	.0	.0	.4	.0	.0	.4	
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	9.5	29.6	50.1	10.4	.4	.0	100.0	567

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	1.8	11.9	18.6	8.3	2.8	.9	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	620	3
6-7	.4	1.9	7.8	7.5	5.1	.9	.9	.2	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	350	5
8-9	.0	.5	2.2	2.4	2.7	.9	.5	.4	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	6
10-11	.0	.3	.6	.5	.5	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	5
12-13	.0	.0	.4	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	5
>13	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	9
INDET	4.0	4.9	3.5	2.6	1.6	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	237	3
TOTAL	86	272	460	296	180	47	23	12	6	8	1	0	0	0	0	0	0	0	0	1391	4
PCT	6.2	19.6	33.1	21.3	12.9	3.4	1.7	.9	.4	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1932-1970
(OVER-ALL) 1874-1970

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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	7.8	1.4	4.1	.0	.0	.0	.0	13.3	.0	.0	21.8	.0	.0		.0	64.8
NE	9.7	2.2	3.5	.0	.0	.0	.0	15.4	2.2	.0	25.1	.3	2.2		.0	55.0
E	10.0	1.5	1.8	.0	.0	.0	.0	13.3	2.5	.0	33.1	.5	.5		.0	50.0
SE	11.1	.7	4.4	.0	.0	.0	.0	15.6	.4	.5	51.1	.7	1.2		.0	31.0
S	5.0	1.9	3.0	.0	.0	.0	.0	9.9	1.1	.7	55.3	.9	1.9		.0	30.5
SW	3.9	.7	.9	.0	.0	.0	.0	5.3	.7	.0	49.6	1.4	2.2		.0	40.9
W	1.3	.1	2.1	.0	.0	.0	.0	3.5	.0	.0	33.2	1.0	1.3		.3	60.7
NW	3.3	1.0	1.5	.0	.0	.0	.0	5.9	.0	.0	26.2	1.0	.0		.0	66.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	2.0	.0	.0	.0	.0	2.0	.0	.0	39.2	2.0	3.9		.0	52.9
TOT PCT	5.0	1.0	2.2	.0	.0	.0	.0	8.0	.7	.2	43.7	1.0	1.6		*	44.8
TOT OBS:	2139															

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	1.1	2.3	.0	.0	.0	.0	8.7	.3	.2	43.5	.6	1.4		.0	45.3
06&09	5.1	.6	2.8	.0	.0	.0	.0	8.3	1.0	.2	38.5	.8	1.4		.0	49.7
12&15	4.5	.9	1.5	.0	.0	.0	.0	6.9	.7	.0	48.2	1.9	2.4		.0	39.9
18&21	4.4	1.2	2.4	.0	.0	.0	.0	7.9	1.0	.4	44.0	.6	1.2		.2	45.0
TOT PCT	4.9	1.0	2.2	.0	.0	.0	.0	8.0	.7	.2	43.7	1.0	1.6		*	44.9
TOT OBS:	2178															

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	1.9	1.2	.1	.0	.0		3.3	10.1	2.8	2.8	3.4	3.9	4.3	2.1	3.7	3.2
NE	.1	1.8	1.7	.4	.0	.0		4.0	12.1	4.5	1.8	3.9	5.7	4.6	4.8	3.6	2.7
E	.6	2.6	2.5	.4	.0	.0		6.1	10.9	7.4	6.3	6.5	4.4	5.2	4.4	6.4	6.9
SE	.8	4.3	3.2	.6	.0	.0		8.8	10.9	8.9	5.7	7.7	8.8	9.8	8.3	11.4	8.8
S	1.0	9.3	9.4	1.3	*	.0		20.9	11.7	19.4	18.0	20.6	22.4	21.8	20.9	24.6	19.3
SW	1.3	14.7	13.5	1.5	.1	.0		31.1	11.5	31.3	36.5	30.4	26.3	31.7	32.9	26.5	36.3
W	1.4	7.5	7.9	1.1	*	.0		18.0	11.2	18.9	19.3	18.7	21.3	15.1	18.9	17.5	16.4
NW	.4	2.5	1.8	.0	*	.0		4.7	9.8	4.5	6.4	4.9	5.1	3.8	5.6	4.0	5.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9							2.9	.0	2.6	3.2	4.0	2.2	3.8	2.1	2.4	1.0
TOT OBS	217	1122	1036	136	6	0	2517		11.0	533	222	379	180	450	187	369	197
TOT PCT	8.6	44.6	41.2	5.4	.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	.9	2.0	.4	*	.0		3.3	10.1	2.8	3.5	3.7	3.5
NE	.9	2.1	.9	.1	.0		4.0	12.1	3.7	4.5	4.7	3.3
E	1.8	3.3	1.0	*	.0		6.1	10.9	7.1	5.9	4.9	6.5
SE	2.3	4.8	1.5	.1	.0		8.8	10.9	7.7	8.1	9.3	10.5
S	4.4	12.1	4.4	.1	.0		20.9	11.7	19.0	21.2	21.5	22.7
SW	6.6	18.6	5.5	.4	.0		31.1	11.5	32.8	29.1	32.1	29.9
W	4.2	10.6	3.0	.1	*		18.0	11.2	19.0	19.5	16.2	17.1
NW	1.4	3.1	.2	*	.0		4.7	9.8	5.1	5.0	4.3	4.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.9						2.9	.0	2.8	3.4	3.3	1.9
TOT OBS	640	1427	425	24	1	2517		11.0	755	559	637	566
TOT PCT	25.4	56.7	16.9	1.0	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1932-1970
(OVER-ALL) 1874-1970

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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	2.8	6.6	44.2	42.1	4.1	.1	.0	10.6	100.0	755
06&09	3.4	6.3	42.9	42.2	5.0	.2	.0	11.0	100.0	559
12&15	3.3	5.5	47.3	37.7	6.1	.2	.0	10.8	100.0	637
18&21	1.9	4.4	43.6	42.8	6.7	.5	.0	11.6	100.0	566
TOT	72	145	1122	1036	136	6	0	11.0		2517
PCT	2.9	5.8	44.6	41.2	5.4	.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	.7	.4	.9	2.1		5.8
NE	.4	.2	1.0	2.4		6.7
E	.4	.2	1.1	5.4		7.2
SE	.5	.6	.9	6.8		7.0
S	1.8	.8	2.6	16.4		7.0
SW	6.9	1.2	4.2	17.3		5.9
W	7.1	1.5	2.5	7.0		4.5
NW	1.6	.4	.6	1.6		4.6
VAR	.0	.0	.0	.0		.0
CALM	.6	.2	.6	1.2		5.4
TOT OBS	325	89	233	976	1623	6.0
TOT PCT	20.0	5.5	14.4	60.1	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	.5	.0	*	.5	.7	.6	.2	.0	.1	*	1.4	
NE	.8	.0	.2	.3	.3	.5	.3	.1	.2	.0	1.3	
E	1.8	.1	.4	.7	1.5	.9	.1	.1	*	.0	1.5	
SE	4.0	.2	.3	.7	1.2	.6	.2	*	*	.1	1.7	
S	11.8	.1	.7	1.2	1.7	1.0	.6	.0	.1	.2	4.1	
SW	12.3	.2	.6	1.2	2.0	.9	.4	.2	.4	.9	10.6	
W	4.7	.2	.3	.5	.7	.6	.4	.1	.1	.5	10.0	
NW	.9	.0	*	.2	.4	.4	*	.0	.0	.2	2.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.6	.0	.0	.1	.1	.1	.1	.1	.0	.1	1.2	
TOT OBS	606	11	41	89	138	90	37	10	16	34	551	1623
TOT PCT	37.3	.7	2.5	5.5	8.5	5.5	2.3	.6	1.0	2.1	33.9	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	1.3	2.8	2.8	2.9	2.9	2.9	3.0	3.1
* OR >5000	1.6	3.3	3.4	3.5	3.6	3.6	3.6	3.7
* OR >3500	2.5	5.5	5.7	5.8	5.8	5.8	5.9	5.9
* OR >2000	4.5	10.7	11.1	11.2	11.3	11.3	11.3	11.5
* OR >1000	7.5	17.0	18.6	19.2	19.6	19.6	19.8	19.9
* OR >600	8.8	20.7	23.4	24.1	24.8	24.8	25.2	25.3
* OR >300	9.2	21.7	25.0	26.2	27.2	27.3	27.7	27.8
* OR >150	9.2	21.7	25.1	26.4	27.4	27.7	28.4	28.5
* OR > 0	9.3	22.0	25.9	28.2	31.2	36.6	59.1	66.0
TOTAL	151	359	422	460	509	597	964	1076

TOTAL NUMBER OF OBS: 1631 PCT FREQ NH <5/8: 34.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.8	5.9	5.9	2.9	1.7	2.1	4.5	4.0	19.4	35.9	1682

PERIOD: (PRIMARY) 1932-1970
(OVER-ALL) 1874-1970

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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	*	.1	.3	.9	1.0	.3	.0	.0	*	2.6	
<1/2	NO PCP	.4	.6	1.6	4.0	10.0	11.9	4.3	.8	.0	.7	34.3	
	TOT %	.4	.7	1.7	4.3	10.9	12.9	4.6	.8	.0	.7	37.0	
	PCP	*	*	.1	.2	.2	.2	*	.1	.0	.0	.8	
1/2<1	NO PCP	.1	.1	.2	.2	.6	1.4	.5	.3	.0	.1	3.5	
	TOT %	.2	.2	.2	.4	.8	1.6	.5	.4	.0	.1	4.4	
	PCP	.0	*	.1	*	.3	*	.1	*	.0	.0	.5	
1<2	NO PCP	*	.1	.2	.1	.5	.9	.3	.0	.0	.0	2.2	
	TOT %	*	.2	.3	.2	.8	.9	.4	*	.0	.0	2.8	
	PCP	.2	.1	.2	.2	.3	.2	.1	.0	.0	.0	1.2	
2<5	NO PCP	.1	.1	.2	.2	1.1	1.5	.7	*	.0	.1	3.8	
	TOT %	.3	.2	.4	.4	1.4	1.8	.7	*	.0	.1	5.0	
	PCP	.3	.5	.4	.5	.4	.2	.1	.2	.0	.0	2.5	
5<10	NO PCP	.9	1.5	1.8	1.5	4.0	6.7	4.3	1.1	.0	.6	22.5	
	TOT %	1.2	2.0	2.2	2.0	4.4	6.9	4.4	1.3	.0	.6	25.0	
	PCP	.0	*	.1	.1	.1	*	.0	.0	.0	.0	.4	
10+	NO PCP	1.3	1.1	1.7	1.5	3.1	7.1	7.0	2.0	.0	.7	25.5	
	TOT %	1.3	1.1	1.7	1.6	3.2	7.1	7.0	2.0	.0	.7	25.9	
	TOT OBS												2134
	TOT PCT	3.4	4.3	6.4	8.9	21.4	30.9	17.7	4.6	.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
	0-3	.1	*	.3	.4	.3	.5	.4	.1	.0	.8	2.9	
<1/2	4-10	.3	.4	.8	2.2	4.1	5.9	2.0	.5	.0		16.2	
	11-21	.1	.2	.4	1.2	5.2	5.4	2.4	.2	.0		15.2	
	22+	.0	.0	.1	.2	.6	.7	*	.0	.0		1.7	
	TOT %	.4	.7	1.6	4.0	10.3	12.6	4.8	.8	.0	.8	35.9	
	0-3	*	*	.0	*	*	*	.1	.0	.0	.1	.4	
1/2<1	4-10	.1	*	.1	.1	.4	.4	.1	.2	.0		1.5	
	11-21	*	.1	.1	.1	.2	.9	.2	.1	.0		1.7	
	22+	.0	.1	.0	.1	.2	.1	*	.0	.0		.5	
	TOT %	.1	.2	.2	.4	.8	1.5	.5	.4	.0	.1	4.1	
	0-3	.0	.0	.0	.0	*	*	*	.0	.0	*	.1	
1<2	4-10	*	.1	*	.1	.4	.4	.2	.0	.0		1.1	
	11-21	.0	*	.2	.1	.3	.4	.2	*	.0		1.3	
	22+	.0	.1	*	.0	.1	*	.0	.0	.0		.2	
	TOT %	*	.1	.2	.1	.8	.9	.5	*	.0	*	2.8	
	0-3	.0	.0	.0	.0	*	*	.1	.0	.0	.2	.3	
2<5	4-10	.1	.3	*	.1	.4	.5	.3	*	.0		1.7	
	11-21	.2	*	.2	.3	.9	1.1	.5	*	.0		3.2	
	22+	*	*	*	.0	.0	.1	*	.0	.0		.2	
	TOT %	.3	.3	.3	.4	1.3	1.7	.9	*	.0	.2	5.5	
	0-3	*	*	.3	.1	.1	.2	.3	.1	.0	.6	1.8	
5<10	4-10	.5	.6	.7	.8	1.9	3.3	2.0	.7	.0		10.4	
	11-21	.5	1.1	.9	.8	1.6	3.0	1.8	.4	.0		10.1	
	22+	*	.2	.2	.3	.5	.4	.3	*	.0		1.9	
	TOT %	1.1	1.9	2.0	2.0	4.2	6.9	4.4	1.2	.0	.6	24.3	
	0-3	.1	.0	.1	.2	.3	.2	.3	.1	.0	.9	2.3	
10+	4-10	.9	.6	.9	1.0	2.0	3.8	3.0	1.0	.0		13.3	
	11-21	.5	.4	.7	.6	1.3	3.1	3.2	1.1	.0		10.8	
	22+	*	.1	.1	.1	*	.3	.6	.0	.0		1.2	
	TOT %	1.5	1.0	1.7	1.8	3.6	7.4	7.2	2.3	.0	.9	27.5	
	TOT OBS												2346
	TOT PCT	3.5	4.2	6.1	8.7	21.0	31.0	18.2	4.7	.0	2.6	100.0	

PERIOD: (PRIMARY) 1932-1970
(OVER-ALL) 1874-1970

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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	37.1	.2	1.5	5.3	9.3	4.9	1.5	.6	1.3	1.3	62.9	37.1	472
06&09	33.7	.8	1.3	6.0	7.5	7.3	3.1	.5	.8	1.8	62.7	37.3	386
12&15	41.6	.8	2.8	5.8	8.9	4.1	2.5	.5	1.0	2.3	70.3	29.7	394
18&21	35.7	1.0	4.4	4.7	7.6	5.7	2.0	.7	.7	3.0	65.5	34.5	406
TOT	614	11	41	90	139	90	37	10	16	34	1082	576	1658
PCT	37.0	.7	2.5	5.4	8.4	5.4	2.2	.6	1.0	2.1	65.3	34.7	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	36.5	4.4	2.3	3.5	26.7	26.7	709
06&09	33.3	2.7	2.4	4.9	26.0	30.6	549
12&15	40.0	3.9	4.2	5.6	21.0	25.3	590
18&21	34.0	5.0	2.4	8.1	23.2	27.4	544
TOT	863	96	67	199	582	655	2392
PCT	36.1	4.0	2.8	5.4	24.3	27.4	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+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	37.4	42.0	49.4	16.7	34.0	462
06&09	34.2	37.9	47.0	18.5	34.5	383
12&15	43.0	49.5	59.1	16.1	24.7	384
18&21	36.1	43.0	52.5	16.9	30.6	402
TOT	614	702	846	278	507	1631
PCT	37.6	43.0	51.9	17.0	31.1	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
75/79	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
70/74	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
65/69	.0	.0	.0	.0	.0	.3	.3	.6	18	1.2
60/64	.0	.0	.1	.1	.5	1.1	3.6	6.5	175	11.8
55/59	.0	.0	.0	.0	.3	2.5	11.8	24.1	575	38.6
50/54	.0	.0	.0	.0	.0	.9	8.8	28.5	569	38.2
45/49	.0	.0	.0	.0	.1	.1	1.1	8.6	147	9.9
40/44	.0	.0	.0	.0	.0	.0	.1	.1	3	.2
TOTAL	0	0	1	1	13	71	384	1019	1489	100.0
PCT	.0	.0	.1	.1	.9	4.8	25.8	68.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
.0	.0	.0	.0	.3	.8	.2	.0	.0	.0
.4	.2	.4	.7	2.9	4.4	2.1	.4	.0	.3
.8	1.3	2.2	3.4	8.6	12.5	7.4	1.7	.0	.7
1.3	2.0	2.9	3.3	7.3	11.1	7.7	1.6	.0	.9
.7	.9	.6	.8	1.6	2.7	1.6	.7	.0	.2
.0	.0	.0	.0	.1	.1	.0	.0	.0	.0
3.2	4.4	6.2	8.2	20.7	31.7	19.1	4.3	.0	2.1

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	69	65	61	54	47	46	43	54.1	761
06&09	65	63	61	54	47	46	45	53.9	567
12&15	70	67	63	55	48	45	40	55.2	638
18&21	76	69	65	56	49	46	42	56.5	568
TOT	76	66	62	55	48	46	40	54.9	2534

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	.2	2.7	24.1	72.9	93	473
06&09	.0	.0	.0	1.2	23.5	75.3	94	340
12&15	.0	.0	.6	7.4	25.6	66.4	92	363
18&21	.0	.6	3.0	9.2	30.8	56.5	90	338
TOT	0	2	13	75	391	1033	93	1514

JULY

PERIOD: (PRIMARY) 1932-1970
(OVER-ALL) 1874-1970

TABLE 17

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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

AIR-SEA	41	45	49	53	57	61	65	69	73	TOT	W	WO
TMP DIF	44	48	52	56	60	64	68	72	76		FOG	FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.1	.0
17/19	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.1	.0
14/16	.0	.0	.0	.0	.1	.2	.0	.1	.0	6	.1	.3
11/13	.0	.0	.1	.2	.7	.4	.1	.2	.0	30	.8	.8
9/10	.0	.1	.5	.8	.9	.6	.1	.0	.0	56	1.4	1.4
7/8	.0	.2	1.2	2.1	2.5	.7	.6	.0	.0	145	3.9	3.5
6	.1	.2	1.0	1.9	2.0	.8	.1	.0	.0	117	2.3	3.7
5	.0	.2	2.1	3.5	2.2	.9	.1	.0	.0	175	4.9	4.0
4	.0	.6	2.9	4.6	2.9	.8	.0	.0	.0	230	5.6	6.1
3	.0	.7	2.7	4.8	3.3	.5	.1	.0	.0	233	4.7	7.2
2	.0	.9	4.3	4.9	3.0	.6	.1	.0	.0	269	5.9	7.8
1	.1	1.0	4.2	4.8	2.8	.4	.2	.0	.0	263	6.1	7.3
0	.0	1.1	2.6	3.4	2.1	.4	.0	.0	.0	188	4.1	5.5
-1	.1	.4	1.4	1.7	.8	.1	.0	.0	.0	87	1.9	2.6
-2	.1	.5	1.4	.7	.6	.2	.0	.0	.0	64	1.3	1.9
-3	.0	.3	.9	.4	.1	.1	.0	.0	.0	32	.7	1.0
-4	.0	.1	.4	.4	.0	.0	.1	.0	.0	17	.4	.5
-5	.0	.2	.2	.2	.3	.0	.0	.0	.0	17	.3	.6
-6	.1	.3	.1	.1	.0	.0	.0	.0	.0	9	.1	.4
-7/-8	.0	.0	.1	.2	.1	.1	.0	.0	.0	8	.3	.1
-9/-10	.0	.1	.1	.2	.1	.0	.0	.0	.0	6	.2	.2
-14/-16	.0	.0	.1	.1	.0	.0	.0	.0	.0	3	.1	.1
TOTAL	6		511		477		23		1		882	1075
		125		679		130		5		1957		
PCT	.3	6.4	26.1	34.7	24.4	6.6	1.2	.3	.1	100.0	45.1	54.9

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	.0	.3	.0	.0	.0	.0	.3
1-2	.1	.0	.1	.0	.0	.0	.3
3-4	.0	.2	.7	.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	.1	.5	.8	.0	.0	.0	1.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	*	.3	.2	.0	.0	.0	.5
3-4	.0	.2	.7	.0	.0	.0	.9
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.2	.4	.0	.0	.6
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	.6	1.1	1.2	.6	.0	.0	3.0

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	.7	.1	.0	.0	.0	.8
3-4	.2	.6	.7	.2	.0	.0	1.6
5-6	.0	.0	.6	.5	.0	.0	1.1
7	.0	.0	.8	.0	.0	.0	.8
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	1.5	2.1	.8	.0	.0	4.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4
1-2	.4	2.1	.5	.0	.0	.0	2.9
3-4	.0	1.0	1.5	.2	.0	.0	2.7
5-6	.0	*	.9	.2	.0	.0	1.2
7	.0	.0	.6	.0	.0	.0	.6
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	.6	3.3	3.4	.9	.0	.0	8.2

PERIOD: (OVER-ALL) 1963-1970

JULY

TABLE 18 (CONT)

AREA 0005 PLACENTIA BAY SOUTH
46.0N 54.3W

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	1.4	.0	.0	.0	.0	1.7
1-2	.0	3.2	1.1	.0	.0	.0	4.2
3-4	.0	3.1	5.3	.1	.0	.0	8.6
5-6	.0	.8	3.2	.4	.0	.0	4.4
7	.0	.0	1.7	.7	.0	.0	2.4
8-9	.0	.0	.5	.1	.0	.0	.7
10-11	.0	.0	.0	.7	.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	8.5	11.8	2.0	.0	.0	22.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.7	.4	.0	.0	.0	3.7
1-2	*	4.8	2.4	.0	.0	.0	7.3
3-4	.2	4.7	8.9	.4	.0	.0	14.3
5-6	.0	.9	4.6	1.0	.0	.0	6.5
7	.0	.6	2.5	.3	.0	.0	3.4
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.2	.1	.0	.0	.3
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	.8	13.7	19.2	2.0	.0	.0	35.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.7	.0	.0	.0	.0	1.0
1-2	.1	2.3	1.3	.0	.0	.0	3.8
3-4	.0	3.6	3.9	.4	.0	.0	7.8
5-6	.0	.7	4.2	.3	.0	.0	5.3
7	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.3	.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	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	7.3	10.6	.7	.2	.0	19.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	*	.0	.0	.0	.0	*	
1-2	.0	.9	*	.0	.0	.0	.9	
3-4	.0	.1	.9	.0	.0	.0	1.1	
5-6	.0	.2	.6	.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	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	1.6	.0	.0	.0	2.9	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	6.2	.4	.0	.0	.0	10.5	
1-2	.8	14.1	5.8	.0	.0	.0	20.7	
3-4	.4	13.5	22.6	1.3	.0	.0	37.8	
5-6	.0	2.6	14.3	2.4	.0	.0	19.4	
7	.0	.6	6.6	1.3	.0	.0	8.5	
8-9	.0	.0	.9	.9	.2	.0	2.1	
10-11	.0	.0	.2	.8	.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	5.1	37.0	50.8	7.0	.2	.0	100.0	532

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	2.1	12.3	24.6	8.6	2.4	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	705	1
6-7	.1	1.7	7.7	7.5	6.0	1.2	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	347	1
8-9	.0	.2	1.6	1.7	1.6	1.4	.4	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	99	6
10-11	.0	.4	.2	.4	.7	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	6
12-13	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
>13	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
INDET	4.0	3.2	4.0	2.4	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	198	3
TOTAL	86	247	533	288	198	49	20	5	4	1	0	0	0	0	0	0	0	0	0	1391	4
PCT	6.2	17.8	38.3	20.7	11.4	3.5	1.4	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1870-1970

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.3W

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 WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.3	1.4	4.4	.0	.0	.0	.0	10.1	.0	.0	7.6	.0	.0		.0	82.3
NE	10.9	.9	7.0	.0	.0	.0	.0	18.8	1.8	.0	14.2	1.3	.2		.0	63.7
E	11.5	1.4	9.2	.0	.0	.0	.0	20.9	.3	.0	25.7	.9	.3		.0	51.6
SE	7.9	2.7	1.9	.0	.0	.0	.0	12.5	2.6	.3	27.1	2.7	2.4		.0	52.2
S	7.9	1.6	4.4	.0	.0	.0	.0	12.9	2.7	.2	34.6	.8	2.1		.0	46.7
SW	2.9	1.0	1.5	.0	.0	.0	.0	5.4	.6	.5	37.8	1.2	2.6		.0	51.9
W	1.2	.6	1.3	.0	.0	.0	.0	3.1	1.0	.1	23.5	1.0	3.0		.0	68.3
NW	.7	.3	3.2	.0	.0	.0	.7	4.9	.7	.0	7.5	.7	.7		.0	85.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	2.2	2.2	4.3	.0	.0	.0	.0	8.7	.0	.0	39.1	2.2	2.2		.0	47.8
TOT PCT	4.8	1.2	3.1	.0	.0	.0	*	8.8	1.2	.3	28.0	1.1	2.1		.0	58.6
TOT OBS:	2371															

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 WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	5.2	1.5	4.1	.0	.0	.0	.1	10.8	1.0	.3	28.0	.9	1.9		.0	57.1
06&09	5.2	1.0	3.6	.0	.0	.0	.0	9.5	1.4	.8	25.0	1.2	1.2		.0	60.8
12&15	3.8	1.0	1.5	.0	.0	.0	.0	5.8	1.5	.0	30.3	1.2	3.1		.0	58.1
18&21	4.8	1.3	2.9	.0	.0	.0	.0	8.7	1.0	.0	28.1	1.4	1.9		.0	58.9
TOT PCT	4.7	1.2	3.0	.0	.0	.0	*	8.7	1.2	.2	28.0	1.2	2.1		.0	58.6
TOT OBS:	2406															

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	2.0	1.8	.5	.1	.0		5.0	11.8	4.3	4.2	6.1	7.6	5.6	4.4	4.9	3.3
NE	.4	2.0	2.3	.5	*	.0		5.2	11.9	6.0	6.8	4.8	3.8	5.0	6.6	4.0	5.5
E	.8	3.2	2.9	.4	.0	.0		6.9	10.4	7.0	7.2	7.2	4.4	6.5	5.9	7.2	8.7
SE	.5	4.0	3.5	.4	.1	.0		8.5	11.2	8.3	7.1	8.8	8.5	7.3	10.1	9.5	9.0
S	1.2	7.4	7.3	.9	.1	.0		16.9	11.6	16.6	20.0	15.4	18.8	16.9	16.2	16.3	17.9
SW	1.2	10.8	12.6	2.1	*	.0		26.7	12.4	27.5	23.6	27.8	22.9	26.7	23.2	28.4	28.0
W	1.0	8.4	10.4	1.4	*	.0		21.2	12.3	21.0	20.7	21.8	21.8	20.7	21.8	21.5	20.9
NW	.4	2.9	3.0	.5	.1	.0		6.9	12.4	6.5	6.8	6.9	9.7	7.7	7.7	6.3	5.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7							2.7	.0	2.8	3.6	1.2	2.4	3.8	4.1	1.9	2.2
TOT OBS	258	1184	1264	193	14	0	2913		11.6	600	227	434	170	555	222	480	280
TOT PCT	8.9	40.6	43.4	6.6	.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	1.4	2.8	1.0	.2	.0		5.0	11.8	4.2	6.5	5.1	4.4
NE	1.3	2.7	1.1	.1	.0		5.2	11.9	6.2	4.5	5.4	4.5
E	2.1	3.8	.9	.1	.0		6.9	10.4	7.1	6.4	6.3	7.7
SE	2.2	4.9	1.3	.1	*		8.5	11.2	8.0	8.7	8.1	9.4
S	3.6	10.0	3.1	.2	*		16.9	11.6	17.3	16.4	16.7	16.8
SW	4.7	15.5	5.9	.6	.0		26.7	12.4	26.5	26.4	25.7	28.3
W	4.4	11.9	4.6	.4	.0		21.2	12.3	21.0	21.8	21.0	21.1
NW	1.3	3.9	1.5	.3	.0		6.9	12.4	6.5	7.7	7.7	5.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.7						2.7	.0	3.0	1.5	3.9	2.0
TOT OBS	691	1602	564	55	1	2913		11.6	822	804	777	710
TOT PCT	23.7	55.0	19.4	1.9	*		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1870-1970

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.3W

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	3.0	5.6	40.8	45.0	5.2	.4	.0	11.4	100.0	822
06&09	1.5	6.0	40.7	45.0	6.3	.5	.0	11.7	100.0	604
12&15	3.9	8.4	42.2	39.3	5.9	.4	.0	10.9	100.0	777
18&21	2.0	4.6	38.7	44.6	9.3	.7	.0	12.5	100.0	710
TOT	78	180	1184	1264	193	14	0	11.6		2913
PCT	2.7	6.2	40.6	43.4	6.6	.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	1.0	.5	1.1	2.0		5.5
NE	.8	.3	1.0	2.8		6.3
E	.7	.1	1.0	4.2		6.9
SE	.9	.6	1.4	5.3		6.6
S	2.6	1.1	3.2	10.2		6.3
SW	6.8	2.5	5.3	13.4		5.5
W	8.2	3.3	4.2	6.6		4.3
NW	2.4	1.0	1.4	1.7		4.2
VAR	.0	.0	.0	.0		.0
CALM	.4	.3	.6	1.1		5.9
TOT OBS	451	186	362	898	1897	5.5
TOT PCT	23.8	9.8	19.1	47.3	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	.3	.0	.1	.4	1.0	.9	.1	.1	*	.1	2.0	
NE	.6	.1	.1	.8	.9	.7	.1	.0	.1	.2	1.4	
E	1.4	.1	.3	.9	.9	.7	.3	.1	*	.3	1.2	
SE	1.8	.1	.2	.7	1.3	.9	.3	*	.1	.1	2.5	
S	5.2	.2	.5	1.4	1.8	1.1	.4	.1	.3	.6	5.6	
SW	8.0	.2	.6	1.1	2.6	1.0	.5	.1	.3	.6	13.1	
W	3.6	.1	.3	1.2	1.8	.7	.4	.1	.1	.4	13.7	
NW	.4	*	.0	.4	.5	.5	.1	.1	.0	.1	4.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.0	.2	.2	.2	.2	.0	.0	.1	.0	1.1	
TOT OBS	414	14	42	132	210	120	41	11	17	44	852	1897
TOT PCT	21.8	.7	2.2	7.0	11.1	6.3	2.2	.6	.9	2.3	44.9	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	2.1	2.9	3.0	3.1	3.1	3.1	3.1	3.1
* OR >5000	2.5	3.4	3.6	3.6	3.6	3.7	3.7	3.7
* OR >3500	3.7	5.3	5.6	5.8	5.8	5.9	5.9	5.9
* OR >2000	6.6	10.8	11.6	11.9	12.0	12.2	12.2	12.3
* OR >1000	11.0	19.5	21.7	22.4	22.7	23.0	23.3	23.3
* OR >600	13.8	24.5	27.8	28.8	29.4	29.8	30.3	30.3
* OR >300	14.1	25.5	29.4	30.2	31.3	31.9	32.4	32.4
* OR >150	14.1	25.8	29.9	31.3	32.1	32.6	33.2	33.2
* OR > 0	14.2	26.3	31.0	33.4	35.9	40.0	52.0	54.9
TOTAL	268	498	587	633	679	758	984	1039

TOTAL NUMBER OF OBS: 1893 PCT FREQ NH <5/8: 45.1

TABLE 7A

PERCENTAGE FREQ OF COM CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
18.8	8.6	8.8	4.6	3.8	3.9	4.8	5.6	21.5	20.2	1991

AUGUST

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1870-1970

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.3W

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	*	.1	*	.1	.4	.8	.2	*	.0	.1	1.4	
<1/2	NO PCP	.2	.4	1.1	1.4	4.1	7.2	3.4	.3	.0	.5	18.7	
	TOT %	.2	.4	1.1	1.5	4.5	7.7	3.6	.3	.0	.6	20.1	
	PCP	*	*	.1	*	.3	.2	.1	*	.0	.0	.8	
1/2<1	NO PCP	.1	.1	.1	.4	.8	1.2	.6	*	.0	*	3.4	
	TOT %	.1	.1	.3	.4	1.1	1.4	.6	.1	.0	*	4.1	
	PCP	*	.1	.2	.1	.2	.2	*	*	.0	.0	.9	
1<2	NO PCP	.0	.1	.1	.3	.4	.8	.4	.0	.0	.1	2.2	
	TOT %	*	.2	.3	.4	.6	1.0	.4	*	.0	.1	3.1	
	PCP	.1	.1	.3	.3	.4	.3	.1	.1	.0	*	1.8	
2<5	NO PCP	*	.1	.3	.3	1.0	1.8	1.1	.2	.0	.2	4.9	
	TOT %	.1	.2	.6	.6	1.4	2.1	1.2	.3	.0	.2	6.8	
	PCP	.2	.6	.6	.5	.8	.5	.3	.1	.0	*	3.4	
5<10	NO PCP	1.1	1.3	1.9	2.4	3.7	5.9	4.6	1.1	.0	.3	22.3	
	TOT %	1.3	1.9	2.4	2.8	4.6	6.2	4.9	1.2	.0	.3	25.7	
	PCP	.1	*	.2	*	.2	*	*	.0	.0	.0	.6	
10+	NO PCP	2.7	2.0	1.9	2.8	5.1	9.0	11.3	4.3	.0	.6	39.6	
	TOT %	2.8	2.0	2.1	2.8	5.2	9.0	11.3	4.3	.0	.6	40.2	
	TOT OBS												2348
	TOT PCT	4.6	4.9	6.8	8.7	17.4	27.4	22.1	6.2	.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
	0-3	.1	*	.1	.1	.5	.4	.2	.1	.0	.7	2.2	
<1/2	4-10	.2	.2	.7	.8	2.2	2.9	1.9	.3	.0		9.1	
	11-21	.0	.2	.4	.6	1.8	3.8	1.3	.1	.0		8.1	
	22+	.0	.0	.0	.0	.2	.5	*	.0	.0		.6	
	TOT %	.3	.4	1.1	1.5	4.7	7.5	3.5	.5	.0	.7	20.2	
	0-3	*	.1	*	*	*	*	.0	.0	.0	*	.3	
1/2<1	4-10	*	.1	.1	.2	.4	.6	.3	.0	.0		1.6	
	11-21	*	*	.1	.2	.4	.6	.3	.1	.0		1.7	
	22+	.0	.0	.0	*	.2	.1	.0	.0	.0		.3	
	TOT %	.1	.2	.2	.4	1.0	1.3	.6	.1	.0	*	3.9	
	0-3	.0	*	*	.0	.0	*	.1	.0	.0	.1	.3	
1<2	4-10	.0	.0	.1	.2	.3	.2	.1	.0	.0		.9	
	11-21	*	.1	.1	.2	.3	.6	.2	*	.0		1.5	
	22+	.0	*	.0	.1	*	.1	.1	.0	.0		.3	
	TOT %	*	.1	.3	.5	.6	.9	.4	*	.0	.1	3.0	
	0-3	.0	.0	.1	.1	.1	.1	.1	.0	.0	.2	.6	
2<5	4-10	*	.1	.3	.2	.4	.7	.4	.1	.0		2.2	
	11-21	.1	.1	.2	.3	.7	1.2	.6	.1	.0		3.2	
	22+	*	.1	.1	.1	.3	.2	*	*	.0		.8	
	TOT %	.2	.2	.7	.7	1.4	2.1	1.1	.2	.0	.2	6.8	
	0-3	*	.1	.2	.1	.1	.2	.1	.1	.0	.3	1.3	
5<10	4-10	.4	.5	.9	1.2	1.9	2.1	1.3	.4	.0		8.7	
	11-21	.6	1.0	1.0	1.2	2.1	3.1	2.6	.5	.0		12.0	
	22+	.2	.2	.2	.1	.3	.7	.5	.2	.0		2.4	
	TOT %	1.2	1.8	2.2	2.6	4.3	6.0	4.5	1.3	.0	.3	24.3	
	0-3	.4	.2	.2	.1	.4	.3	.3	.2	.0	.8	2.8	
10+	4-10	1.3	1.1	1.3	1.5	2.3	3.8	4.2	1.9	.0		17.5	
	11-21	1.1	1.0	.9	1.0	2.3	4.1	5.9	2.3	.0		18.5	
	22+	.3	.3	.1	.2	.1	.7	.8	.4	.0		2.9	
	TOT %	3.0	2.6	2.5	2.8	5.2	8.9	11.2	4.7	.0	.8	41.7	
	TOT OBS												3634
	TOT PCT	4.8	5.3	7.1	8.5	17.3	26.7	21.3	6.8	.0	2.2	100.0	

AUGUST

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1870-1970

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45.9N 54.3W

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	23.7	.2	1.8	6.7	10.6	6.8	1.0	.6	1.0	2.2	54.4	45.6	511
06&09	23.2	.5	2.5	6.2	11.9	5.9	3.2	.7	.0	1.5	55.6	44.4	405
12&15	20.3	1.0	2.9	7.2	11.6	6.0	2.7	.6	1.4	2.7	56.5	43.5	483
18&21	19.4	1.3	1.7	7.0	9.8	6.3	1.8	.4	.9	2.6	51.2	48.8	541
TOT	418	15	42	132	211	122	41	11	17	44	1053	887	1940
PCT	21.5	.8	2.2	6.8	10.9	6.3	2.1	.6	.9	2.3	54.3	45.7	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	21.5	3.5	2.4	6.6	29.4	36.7	763
06&09	21.2	3.4	2.2	5.8	23.8	43.6	551
12&15	19.6	4.4	4.9	6.9	20.9	43.3	679
18&21	18.2	4.4	2.5	7.7	22.5	44.7	676
TOT	537	106	80	181	649	1116	2669
PCT	20.1	4.0	3.0	6.8	24.3	41.8	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	29.4	27.1	38.0	19.0	43.0	495
06&09	23.4	27.9	37.2	21.1	41.7	398
12&15	21.2	28.8	41.3	20.1	38.6	472
18&21	19.5	24.8	37.1	18.4	44.5	528
TOT	412	512	727	370	796	1893
PCT	21.8	27.0	38.4	19.5	42.0	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	.1	.0	.0	1	.1
75/79	.0	.0	.0	.0	.1	.0	.1	.0	2	.1
70/74	.0	.0	.0	.0	.1	.1	.4	.2	15	.9
65/69	.0	.0	.1	.0	.2	1.1	2.4	5.0	145	8.8
60/64	.0	.0	.1	.1	.8	2.9	12.5	20.9	616	37.3
55/59	.0	.0	.0	.1	.8	3.9	13.8	24.7	716	43.3
50/54	.0	.0	.0	.1	.2	.9	2.9	5.1	152	9.2
45/49	.0	.0	.0	.0	.0	.2	.0	.2	6	.4
TOTAL	0	0	2	3	39	152	530	928	1653	100.0
PCT	.0	.0	.1	.2	2.3	9.2	32.1	56.1		

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	.1	.0	.0	.0	.0
.0	.0	.0	.1	*	.5	.2	.0	.0	.1
.1	.1	.4	.7	2.2	3.3	1.7	.3	.0	.0
.8	.9	1.3	3.4	7.3	12.0	8.6	2.1	.0	.7
2.0	2.1	3.1	3.8	6.6	10.9	11.0	3.1	.0	.8
1.3	1.3	1.2	.6	1.0	1.0	1.5	.8	.0	.4
.2	.2	.0	.0	.0	.0	.0	.1	.0	.0
4.4	4.6	6.0	8.6	17.2	27.8	23.0	6.4	.0	2.1

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	73	68	66	59	53	50	47	59.0	822
06&09	69	67	65	59	53	50	49	58.5	602
12&15	76	70	67	60	54	51	47	59.8	771
18&21	81	73	69	61	54	51	50	60.9	715
TOT	81	70	67	59	53	50	47	59.6	2910

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	1.5	8.5	25.6	64.4	91	472
06&09	.0	.0	1.1	7.2	28.2	63.5	92	348
12&15	.0	.2	2.2	8.1	37.4	52.0	90	406
18&21	.0	.9	4.0	12.2	37.6	45.2	88	449
TOT	0	5	38	153	540	939	90	1675

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1870-1970

TABLE 17

AREA 0005 PLACENTIA BAY SOUTH
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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
20/22	.0	.0	.0	.0	.0	.0	.0	*	*	.0	2	*	*
17/19	.0	.0	.0	*	.0	.0	*	.1	.0	.0	4	*	.1
14/16	.0	.0	*	.1	.1	.1	.0	*	.0	.0	9	.1	.3
11/13	.0	.0	*	.1	.4	.0	.2	.1	.0	*	20	.4	.5
9/10	.0	.0	*	.4	.8	.6	.3	.0	.0	.0	44	.5	1.6
7/8	.0	.1	.3	1.4	1.7	1.1	.1	.0	.0	.0	101	1.1	3.7
6	.0	.1	.4	1.4	1.1	.8	*	*	.0	.0	84	1.2	2.7
5	.0	.1	.9	2.8	2.0	1.0	.1	.0	.0	.0	135	2.2	4.1
4	.0	*	1.2	4.2	2.8	1.0	.1	.0	.0	.0	198	3.0	6.3
3	.0	.1	2.2	5.2	4.1	1.0	.2	.0	.0	.0	274	4.5	8.4
2	.0	.2	1.6	6.0	4.2	.6	.1	.0	.0	.0	270	3.9	8.8
1	.0	.3	2.0	6.5	3.4	.5	.0	.0	.0	.0	271	3.5	9.3
0	.0	.4	3.2	5.1	2.7	.3	.0	.0	.0	.0	251	3.1	8.7
-1	.1	.4	3.0	2.6	1.7	.2	.0	.0	.0	.0	170	1.9	6.1
-2	.0	.3	1.6	2.8	.6	*	.0	.0	.0	.0	112	.8	4.5
-3	*	.3	1.1	1.6	.3	.0	.0	.0	.0	.0	74	.7	2.8
-4	.0	.3	1.1	.7	.1	.1	.0	.0	.0	.0	48	.4	1.8
-5	.0	.1	.4	.3	.2	*	.0	.0	.0	.0	22	.1	.9
-6	.0	.2	.3	.1	.0	.0	.0	.0	.0	.0	13	.1	.5
-7/-8	.0	.1	.3	.2	.0	*	.0	.0	.0	.0	14	.2	.5
-9/-10	*	*	*	.2	*	.0	.0	.0	.0	.0	8	*	.3
-11/-13	.0	.0	*	*	*	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	4	66	409	890	561	161	26	8	1	1	2127	592	1535
PCT	.2	3.1	19.2	41.8	26.4	7.6	1.2	.4	*	*	100.0	27.8	72.2

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	.3	.1	.0	.0	.0	.0	.4
1-2	.0	.8	.1	.0	.0	.0	.9
3-4	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.1	.4	.0	.0	.0	.5
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.1	.0	.1	.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	1.1	1.3	.0	.1	.0	2.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	*	.0	.0	.0	.2
1-2	.0	.9	.1	.0	.0	.0	1.0
3-4	.0	.4	.5	.0	.0	.0	.9
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1
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	1.4	1.1	.1	.1	.0	2.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	.1	.0	.0	.0	.8
1-2	.0	.6	.4	.0	.0	.0	.9
3-4	.0	1.1	1.0	.1	.0	.0	2.1
5-6	.0	.0	.1	.1	.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	.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	.1	2.2	1.6	.4	.0	.0	4.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	.3	.0	.0	.0	1.5
1-2	*	1.8	.9	.0	.0	.0	2.8
3-4	.3	.8	1.5	.5	.0	.0	3.0
5-6	.0	.0	.7	.1	.0	.0	.8
7	.0	.0	.3	.1	.0	.0	.4
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.1	.0	.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	.5	3.7	3.8	.8	.0	.0	8.8

PERIOD: (OVER-ALL) 1963-1970

AUGUST

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.3W

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	.4	1.1	.0	.0	.0	.0	1.4
1-2	.4	3.5	.8	.0	.0	.0	4.7
3-4	.0	1.5	4.2	.0	.0	.0	5.7
5-6	.0	.2	1.4	.3	.0	.0	1.9
7	.0	.0	1.0	.1	.0	.0	1.2
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.2	.1	.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	.7	6.3	7.6	.8	.0	.0	15.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.4	.1	.0	.0	.0	1.7
1-2	.3	4.4	2.9	.0	.0	.0	7.6
3-4	.1	4.3	6.3	.6	.0	.0	11.4
5-6	.0	.7	4.8	.3	.1	.0	5.9
7	.0	.1	2.5	.5	.0	.0	3.2
8-9	*	.0	.8	.2	.0	.0	1.0
10-11	.0	.0	.3	*	.0	.0	.3
12	.0	.0	*	*	.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	.6	11.0	17.7	1.8	.1	.0	31.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.1	.0	.0	.0	1.0
1-2	.6	3.4	2.0	.0	.0	.0	6.0
3-4	.0	2.0	4.5	.1	.0	.0	6.6
5-6	.1	1.3	5.0	.4	.0	.0	6.9
7	.0	.0	2.2	.5	.0	.0	2.7
8-9	.1	.1	.5	.0	.0	.0	.8
10-11	.0	.0	.5	.1	.0	.0	.7
12	.0	.0	.4	.3	.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
TOT PCT	.9	7.6	15.4	1.4	.0	.0	25.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	*	.2	.0	.0	.0	.0	.3	
1-2	.0	.6	.5	.0	.0	.0	1.1	
3-4	.0	.7	1.2	.0	.0	.0	1.8	
5-6	.0	.6	.8	*	.0	.0	1.5	
7	.0	.1	.6	.0	.0	.0	.8	
8-9	.0	.0	.5	.1	.0	.0	.6	
10-11	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.1	.1	.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	*	2.2	3.9	.3	.1	.0	6.6	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	4.2	5.3	.7	.0	.0	.0	10.2	
1-2	1.3	15.9	7.6	.0	.0	.0	24.8	
3-4	.7	10.5	19.5	1.3	.0	.0	32.0	
5-6	.1	2.9	13.4	1.3	.1	.0	17.9	
7	.0	.3	7.2	1.3	.0	.0	8.8	
8-9	.1	.1	2.0	.6	.1	.0	3.0	
10-11	.0	.1	1.2	.6	.0	.0	1.9	
12	.0	.0	.6	.3	.1	.0	1.0	
13-16	.0	.0	.0	.3	.1	.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	6.5	35.2	52.2	5.6	.6	.0	100.0	694

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	12.2	18.6	8.1	3.0	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	730	3
6-7	.1	1.0	7.0	9.4	6.3	3.0	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	464	5
8-9	.1	.2	1.5	2.4	2.6	1.2	.8	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	159	7
10-11	.0	.1	.4	.5	.4	.1	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	7
12-13	.0	.0	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
>13	.0	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	10
INDET	2.8	3.6	4.5	2.7	1.1	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	253	3
TOTAL	76	285	529	387	223	85	36	19	12	0	0	0	0	0	0	0	0	0	0	1652	4
PCT	4.6	17.3	32.0	23.4	13.5	5.1	2.2	1.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1932-1970
(OVER-ALL) 1869-1970

AREA 0005 PLACENTIA BAY SOUTH
45.0N 54.4W

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	1.2	1.4	3.4	.0	.0	.0	.0	5.9	1.9	.0	4.9	.7	.2		.0	86.3
NE	4.1	1.0	1.3	.0	.0	.0	.0	6.4	3.5	.9	8.0	.1	1.8		.0	79.3
E	9.1	.2	1.9	.0	.0	.0	.0	10.5	2.6	.0	9.2	1.0	.2		.0	76.5
SE	9.6	3.5	3.3	.0	.0	.0	.0	16.2	2.7	.0	20.5	.0	.7		.0	59.9
S	8.0	3.7	3.4	.0	.0	.0	.0	14.8	2.6	.3	29.8	.8	2.1		.0	49.6
SW	3.5	1.6	2.7	.0	.0	.0	.0	7.8	1.5	.2	22.9	.3	1.4		*	65.8
W	1.7	.8	1.3	.0	.0	.0	.0	3.6	1.0	.2	10.4	.3	1.2		.1	83.2
NW	.5	1.3	.6	.0	.0	.0	.0	2.3	1.3	.3	3.2	.0	.0		.0	92.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.9	.0	.0	.0	.0	.0	.0	.9	.0	.0	10.0	.0	.9		.0	88.2
TOT PCT	3.9	1.6	2.0	.0	.0	.0	.0	7.3	1.8	.2	14.1	.3	1.0		*	75.1
TOT OBS:	2864															

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	4.1	2.0	3.1	.0	.0	.0	.0	8.7	1.5	.5	14.3	.2	.6		.1	74.1
06609	3.2	1.8	1.7	.0	.0	.0	.0	6.7	2.9	.3	12.4	.0	1.1		.0	76.6
12615	4.0	1.4	1.9	.0	.0	.0	.0	7.3	1.1	.0	12.9	1.1	1.4		.0	76.3
18621	4.1	1.1	1.1	.0	.0	.0	.0	6.4	2.0	.1	17.4	.0	1.1		.0	72.9
TOT PCT	3.9	1.6	2.0	.0	.0	.0	.0	7.3	1.8	.2	14.2	.3	1.0		*	74.9
TOT OBS:	2892															

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	2.9	3.6	1.2	.2	.0		8.3	14.4	7.2	6.7	9.5	10.2	10.4	8.0	6.1	7.6
NE	.2	2.5	3.5	.8	.3	.0		7.3	14.3	7.5	7.3	8.8	7.1	6.9	6.8	7.8	4.2
E	.3	3.4	2.9	.6	*	*		7.3	11.8	8.4	8.2	8.3	7.8	6.9	4.7	6.9	4.8
SE	.4	3.3	3.1	.6	.1	*		7.5	12.3	7.2	4.8	7.8	6.2	8.7	8.5	6.7	9.3
S	.5	5.3	5.0	1.5	.2	*		12.6	13.2	10.8	13.7	11.0	14.4	12.3	12.7	14.5	14.7
SW	.8	7.3	9.0	2.0	.2	*		19.3	13.4	18.7	23.2	17.0	19.7	17.3	20.5	19.9	23.4
W	.6	6.9	9.3	3.3	.3	*		20.5	14.8	22.0	18.8	18.5	20.7	19.8	20.8	21.5	21.4
NW	.3	4.4	6.6	2.3	.2	.0		13.8	14.9	13.8	13.4	14.0	13.5	14.6	15.7	12.8	12.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0	4.4	1.8	5.1	.4	3.1	2.3	3.9	1.8
TOT OBS	248	1290	1538	444	56	5	3581		13.3	749	279	584	235	710	213	590	221
TOT PCT	6.9	36.0	42.9	12.4	1.6	.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	1.4	3.9	2.4	.6	*		8.3	14.4	7.1	9.7	9.9	6.5
NE	1.3	3.4	2.2	.4	*		7.3	14.3	7.4	8.3	6.9	6.8
E	2.0	3.7	1.4	.2	*		7.3	11.8	8.4	8.2	6.4	6.3
SE	1.9	3.8	1.6	.2	*		7.5	12.3	6.6	7.3	8.6	7.4
S	2.5	6.4	3.0	.7	*		12.6	13.2	11.6	12.0	12.4	14.5
SW	3.0	10.6	4.8	.7	.1		19.3	13.4	20.4	17.7	18.1	20.8
W	2.7	10.0	6.5	1.1	.2		20.5	14.8	21.1	19.1	20.0	21.5
NW	1.5	7.0	4.5	.7	.1		13.8	14.9	13.7	13.9	14.9	12.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.4						3.4	.0	3.7	3.8	2.9	3.3
TOT OBS	704	1747	946	166	18	3581		13.3	1028	819	923	811
TOT PCT	19.7	48.8	26.4	4.6	.5		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1932-1970
(OVER-ALL) 1869-1970

AREA 0005 PLACENTIA BAY SOUTH
45.8N 54.4W

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	3.7	4.0	35.7	42.9	12.2	1.5	.1	13.1	100.0	1028
06&09	3.8	4.0	36.0	43.5	11.7	.9	.1	12.9	100.0	819
12&15	2.9	3.3	38.1	41.0	12.6	2.1	.1	13.5	100.0	923
18&21	3.3	2.6	34.0	44.8	13.2	1.8	.2	13.8	100.0	811
TOT	123	125	1290	1538	444	56	5	13.3		3581
PCT	3.4	3.5	36.0	42.9	12.4	1.6	.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	2.4	1.6	2.1	2.7		4.8
NE	1.7	.9	1.6	3.5		5.5
E	1.8	.7	1.7	3.4		5.4
SE	1.0	.5	1.2	3.8		6.2
S	2.0	.7	1.9	7.2		6.2
SW	4.8	1.4	3.9	8.3		5.3
W	8.4	3.2	4.3	5.6		4.0
NW	5.4	2.6	3.0	2.5		3.8
VAR	.0	.0	.0	.0		.0
CALM	2.2	.2	.8	1.0		3.4
TOT OBS	660	261	456	844	2221	4.9
TOT PCT	29.7	11.8	20.5	38.0	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+ ANY HGT	NH <5/8	TOTAL OBS
N	.4	.0	.2	1.1	1.1	1.0	.1	.1	.1	*	4.8	
NE	.5	.0	.2	.6	1.4	1.3	.3	.1	.2	.1	3.1	
E	.5	*	.3	.6	1.3	.8	.2	.1	.3	.1	3.4	
SE	1.1	*	.2	.7	1.1	.8	.2	.1	.1	.2	2.1	
S	2.3	.2	.5	1.4	1.7	1.1	.3	.2	.1	.2	3.8	
SW	3.4	.0	.4	1.2	2.3	1.2	.5	.2	.1	.4	8.8	
W	1.4	.1	.4	.9	2.0	1.2	.6	.3	.2	.4	14.0	
NW	.4	.0	.1	.5	1.4	.8	.3	.1	.1	.1	9.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.2	.4	.5	*	.0	.0	*	2.7	
TOT OBS	226	8	53	157	280	195	57	24	25	33	1163	2221
TOT PCT	10.2	.4	2.4	7.1	12.6	8.8	2.6	1.1	1.1	1.5	52.4	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	2.5	2.6	2.6	2.6	2.6	2.6	2.6
* OR >5000	2.0	3.5	3.7	3.7	3.7	3.7	3.7	3.7
* OR >3500	3.6	5.8	6.2	6.2	6.2	6.2	6.2	6.2
* OR >2000	8.8	14.0	14.8	15.0	15.0	15.0	15.0	15.0
* OR >1000	14.9	24.4	26.9	27.3	27.5	27.5	27.5	27.6
* OR >600	18.2	29.8	33.5	34.0	34.2	34.5	34.5	34.6
* OR >300	18.7	31.1	35.4	36.1	36.4	36.9	36.9	36.9
* OR >150	18.7	31.1	35.5	36.4	36.8	37.2	37.2	37.3
* OR > 0	18.8	31.5	36.4	37.8	38.9	40.9	45.8	47.5
TOTAL	417	700	808	840	863	907	1016	1055

TOTAL NUMBER OF OBS: 2220 PCT FREQ NH <5/8: 52.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
22.9	8.7	8.2	6.9	4.7	3.4	6.3	5.3	24.1	9.4	2332

PERIOD: (PRIMARY) 1932-1970
(OVER-ALL) 1869-1970

AREA 0005 PLACENTIA BAY SOUTH
45.8N 54.4W

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	.1	*	.1	.1	.2	.9	.1	.0	.0	*	.9	
<1/2	NO PCP	.2	.3	.4	1.0	2.5	2.9	1.0	.2	.0	.2	8.8	
	TOT %	.3	.4	.5	1.0	2.7	3.1	1.1	.2	.0	.2	9.7	
	PCP	.0	.0	*	*	.1	*	*	.0	.0	.0	.2	
1/2<1	NO PCP	*	.1	.1	.3	.3	.9	.4	.1	.0	.1	1.6	
	TOT %	*	.1	.1	.3	.4	.9	.4	.1	.0	.1	1.8	
	PCP	.0	.0	.0	.1	.2	*	.1	.1	.0	.0	.6	
1<2	NO PCP	.1	.1	.1	*	.2	.9	.2	.1	.0	.0	1.0	
	TOT %	.1	.1	.1	.2	.4	.4	.3	.1	.0	.0	1.6	
	PCP	.1	.1	.2	.3	.4	.9	.1	.0	.0	.0	1.7	
2<5	NO PCP	.2	.2	.3	.6	1.2	1.1	.6	.3	.0	.2	4.7	
	TOT %	.3	.3	.6	.9	1.6	1.6	.7	.3	.0	.2	6.4	
	PCP	.9	.9	.4	.5	.8	.6	.3	.2	.0	.0	3.3	
5<10	NO PCP	1.7	2.0	1.7	1.9	3.2	5.0	5.2	3.6	.0	.5	24.7	
	TOT %	2.0	2.3	2.0	2.4	4.0	5.9	5.5	3.8	.0	.5	28.0	
	PCP	*	.1	.1	.1	.1	.1	.1	.1	.0	.0	.6	
10+	NO PCP	5.5	4.7	4.0	2.3	3.2	7.7	12.7	9.0	.0	2.8	51.8	
	TOT %	5.5	4.8	4.1	2.4	3.3	7.7	12.8	9.0	.0	2.8	52.4	
	TOT OBS												2858
	TOT PCT	8.3	7.9	7.3	7.2	12.4	18.7	20.9	13.5	.0	3.8	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
	0-3	.0	.1	*	.1	.1	.2	*	*	.0	.3	.8	
<1/2	4-10	.2	.2	.2	.5	1.3	1.3	.6	.1	.0		4.4	
	11-21	.1	.1	.2	.4	.9	1.6	.5	.1	.0		4.0	
	22+	*	.0	*	.1	.5	.2	.1	.0	.0		.9	
	TOT %	.3	.4	.5	1.1	2.7	3.3	1.2	.2	.0	.3	10.1	
	0-3	.0	*	*	.0	*	*	*	.0	.0	.1	.2	
1/2<1	4-10	*	.0	.0	.1	.2	.1	.1	*	.0		.6	
	11-21	.0	*	*	.1	.1	.2	.1	*	.0		.7	
	22+	.0	*	.1	*	.1	*	.1	.0	.0		.4	
	TOT %	*	.1	.1	.3	.4	.3	.4	.1	.0	.1	1.8	
	0-3	.1	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
1<2	4-10	.1	*	*	.0	.1	.1	*	*	.0		.4	
	11-21	.0	*	*	.1	.2	.2	.1	*	.0		.7	
	22+	.0	*	.0	.1	.2	.1	.1	*	.0		.5	
	TOT %	.1	.1	.1	.2	.4	.4	.3	.1	.0	.0	1.6	
	0-3	*	.0	.1	*	.0	*	.1	.0	.0	.2	.4	
2<5	4-10	.1	.1	.2	.2	.3	.4	.2	.1	.0		1.5	
	11-21	.1	.2	.3	.6	.7	.8	.3	.1	.0		3.1	
	22+	*	.1	.1	.2	.5	.5	.1	.1	.0		1.5	
	TOT %	.3	.3	.6	.9	1.5	1.7	.7	.3	.0	.2	6.5	
	0-3	.1	*	.1	.0	*	.1	.1	*	.0	.5	.9	
5<10	4-10	.4	.6	.9	1.0	1.5	1.8	1.6	1.2	.0		8.9	
	11-21	.8	1.0	.7	1.1	1.8	2.8	2.5	1.5	.0		12.3	
	22+	.6	.5	.4	.2	.5	.8	1.0	.8	.0		4.7	
	TOT %	1.8	2.2	2.0	2.3	3.9	5.4	5.1	3.5	.0	.5	26.8	
	0-3	.1	.1	.2	.3	.1	.3	.4	.2	.0	2.6	4.2	
10+	4-10	1.9	1.7	2.0	1.3	1.9	3.5	4.1	3.0	.0		19.3	
	11-21	2.8	2.2	1.7	.9	1.5	3.7	5.8	4.8	.0		23.3	
	22+	.7	.6	.2	.2	.1	.7	2.4	1.4	.0		6.3	
	TOT %	5.5	4.6	4.1	2.7	3.6	8.1	12.6	9.5	.0	2.6	53.2	
	TOT OBS												3191
	TOT PCT	8.0	7.6	7.3	7.5	12.6	19.2	20.5	13.7	.0	3.5	100.0	

PERIOD: (PRIMARY) 1932-1970
(OVER-ALL) 1869-1970

AREA 0005 PLACENTIA BAY SOUTH
45.8N 54.4W

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	12.7	.5	1.8	5.1	9.6	8.1	3.3	1.5	.8	1.8	45.4	54.6	604
06&09	9.2	.4	3.8	6.6	12.2	9.4	2.0	1.2	1.4	1.4	47.7	52.3	499
12&15	7.3	.4	2.1	8.2	14.9	8.3	2.5	.9	1.1	.9	46.5	53.5	564
18&21	11.5	.2	1.8	8.0	12.8	9.0	2.3	.7	1.2	1.7	49.0	51.0	602
TOT	233	8	53	158	280	197	58	24	25	33	1069	1200	2269
PCT	10.3	.4	2.3	7.0	12.3	8.7	2.6	1.1	1.1	1.5	47.1	52.9	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	11.4	1.9	1.3	4.5	30.2	50.7	911
06&09	9.7	1.5	1.3	6.1	27.9	53.5	742
12&15	7.9	1.9	2.1	7.5	26.7	53.9	809
18&21	11.6	2.1	1.7	7.9	21.8	54.8	757
TOT	328	59	52	207	863	1710	3219
PCT	10.2	1.8	1.6	6.4	26.8	53.1	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	12.9	16.9	24.4	23.7	51.9	590
06&09	9.5	14.7	24.8	25.4	49.8	484
12&15	7.4	10.3	24.6	24.6	50.7	556
18&21	11.5	14.4	27.5	24.1	48.5	590
TOT	231	313	563	542	1115	2220
PCT	10.4	14.1	25.4	24.4	50.2	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
70/74	.0	.0	.0	.1	.1	.1	.1	.2	9	.5
65/69	.0	.0	.0	.1	.1	.4	.5	1.3	40	2.3
60/64	.0	.0	.0	.3	.7	2.5	5.4	10.2	330	19.1
55/59	.0	.0	.1	.2	2.5	8.2	15.6	19.5	797	46.2
50/54	.0	.0	.1	.7	3.5	4.6	9.3	8.8	467	27.1
45/49	.0	.0	.0	.2	.9	1.4	1.6	.8	77	4.5
40/44	.0	.0	.0	.0	.0	.2	.1	.1	6	.3
TOTAL	0	0	4	25	129	302	561	705	1726	100.0
PCT	.0	.0	.2	1.4	7.5	17.5	32.5	40.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.0	.1	.1	.3	.0	.0	.0
.1	.1	.2	.2	.3	.6	.4	.2	.0	.0
.6	.4	.9	1.3	4.4	5.5	4.0	1.5	.0	.3
3.3	3.1	3.0	3.3	5.8	9.8	11.7	5.3	.0	.9
3.4	3.3	2.2	1.1	1.8	3.0	6.9	4.8	.0	.5
1.2	.6	.3	*	.1	*	.7	1.3	.0	.2
.1	.1	.1	.0	.0	.0	.1	*	.0	.0
8.8	7.7	6.9	6.0	12.7	19.0	24.0	13.1	.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	70	66	64	56	50	46	44	56.5	1032
06&09	69	65	63	56	48	45	43	55.9	817
12&15	76	67	64	57	50	47	44	57.2	916
18&21	75	70	66	58	50	47	44	57.9	810
TOT	76	68	64	57	50	46	43	56.9	3575

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	6.7	16.1	35.2	41.3	86	492
06&09	.0	2.1	3.8	12.8	35.1	46.2	88	390
12&15	.0	2.1	7.8	19.0	30.9	40.3	86	437
18&21	.0	2.1	11.1	21.7	28.2	37.0	84	433
TOT	0	30	130	306	567	719	86	1752

SEPTEMBER

PERIOD: (PRIMARY) 1932-1970
(OVER-ALL) 1869-1970

AREA 0005 PLACENTIA BAY SOUTH
45.0N 54.4W

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	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.1	*	*	.0	.0	.1	7	.1	.2
11/13	.0	.0	.0	.1	.1	.1	.1	.2	.0	14	.2	.4
9/10	.0	*	.1	.1	.3	.9	.2	.2	.0	37	.4	1.0
7/8	.0	.1	.1	.4	1.3	.9	.3	.4	*	88	.9	2.6
6	.0	.0	.1	.3	.7	.9	.2	.1	.0	57	.6	1.7
5	.0	.0	.2	.8	1.7	1.2	.7	.0	.0	114	1.1	3.4
4	.0	.0	.2	1.5	2.8	1.7	.4	*	*	168	1.4	5.3
3	.0	*	.3	1.9	3.1	2.1	.5	.0	.0	197	1.6	6.3
2	.0	*	.7	2.9	4.2	2.5	.1	.0	.0	261	1.9	8.6
1	.0	.1	.8	4.3	4.0	1.7	.2	.0	.0	277	2.1	9.0
0	.1	.2	1.6	4.8	4.6	1.8	.2	.0	.0	331	1.6	11.7
-1	.0	.2	1.3	4.6	2.5	1.0	.0	.0	.0	238	.9	8.0
-2	*	.2	1.6	4.0	2.7	.7	.0	.0	.0	229	.8	8.4
-3	*	.4	1.1	2.4	1.2	.2	.0	.0	.0	132	.1	5.2
-4	.0	.1	1.0	1.9	1.4	.2	.0	.0	.0	131	.4	4.8
-5	.0	.4	1.1	1.4	.4	.0	.0	.0	.0	80	.1	3.1
-6	.0	.2	.6	.7	.2	.0	.0	.0	.0	41	.0	1.6
-7/-8	*	.5	.6	.9	.2	.0	*	.0	.0	57	.1	2.2
-9/-10	.1	.2	.5	.4	*	.0	.0	.0	.0	32	.0	1.3
-11/-13	.0	.0	.1	.0	.1	.0	.0	.0	.0	4	.0	.2
TOTAL	8	66	314	837	787	385	74	20	4	2495	356	2139
PCT	.3	2.6	12.6	33.5	31.5	15.4	3.0	.8	.2	100.0	14.3	85.7

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	.2	.0	.0	.0	.0	.2
1-2	.1	1.8	.5	.0	.0	.0	2.4
3-4	.0	1.1	1.6	.1	.0	.0	2.9
5-6	.0	.0	1.7	.2	.0	.0	1.8
7	.0	.1	.6	.3	.0	.0	1.0
8-9	.0	.0	.2	.3	.0	.0	.5
10-11	.0	.0	.2	.4	.0	.0	.6
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1
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	.1	3.2	4.8	1.5	.0	.0	9.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.2	.0	.0	.0	.5
1-2	.0	1.7	.2	.0	.0	.0	1.9
3-4	.0	.6	1.6	.3	.0	.0	2.5
5-6	.0	.0	1.7	.3	.0	.0	2.1
7	.0	.0	.6	.3	.1	.0	.9
8-9	.0	.0	.3	*	.0	.0	.3
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.1	.1	.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	2.4	4.6	1.1	.2	.0	8.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.0	.0	.0	.0	.8
1-2	.1	1.7	.3	.0	.0	.0	2.0
3-4	.0	.7	1.6	.0	.0	.0	2.3
5-6	.0	.4	.5	.1	.0	.0	.9
7	.0	.0	.4	.2	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.2	.0	.0	.3
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	3.4	2.8	.7	.0	.0	7.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.1	.0	.0	.0	.4
1-2	.1	1.6	.1	.0	.0	.0	1.8
3-4	.0	.8	1.0	.0	.0	.0	1.8
5-6	.0	.1	1.3	.4	.0	.0	1.8
7	.0	.0	.5	.1	.0	.0	.6
8-9	.0	.0	.2	.1	.0	.1	.4
10-11	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.1	.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	2.8	3.4	.8	.1	.1	7.4

PERIOD: (OVER-ALL) 1963-1970

SEPTEMBER

TABLE 18 (CONT)

AREA 0005 PLACENTIA BAY SOUTH
45.8N 54.4W

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	.8	.1	.0	.0	.0	1.3
1-2	.0	3.2	.5	.0	.0	.0	3.7
3-4	.0	.8	2.1	.3	.0	.0	3.2
5-6	.0	.2	1.3	.3	.1	.0	1.9
7	.0	.0	.6	.5	.2	.0	1.3
8-9	.0	.0	.1	.1	.1	.0	.3
10-11	.0	.0	.0	.3	.1	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.1	.1	.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	.4	5.0	4.7	1.8	.6	.1	12.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.9	*	.0	.0	.0	1.2
1-2	.1	2.5	.5	.0	.0	.0	3.2
3-4	.0	1.4	3.0	.5	.0	.0	4.9
5-6	.0	.4	3.2	.1	.0	.0	3.7
7	.0	.1	1.0	.6	.0	.0	1.7
8-9	.0	.1	.3	.2	*	.0	.6
10-11	.0	*	.2	.1	.1	.0	.5
12	.0	*	.0	.1	.0	.0	.2
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	5.5	8.2	1.6	.3	*	15.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.8	.0	.0	.0	.0	.9
1-2	.1	2.2	1.1	.0	.0	.0	3.3
3-4	.0	2.0	2.3	.6	.0	.0	4.9
5-6	.0	.6	2.2	.5	.0	.0	3.2
7	.0	.0	2.1	.7	.0	.0	2.7
8-9	.0	.0	.7	.4	.1	.0	1.2
10-11	.0	.1	.1	.6	.0	.0	.7
12	.0	.1	.0	.1	.0	.0	.2
13-16	.0	.0	.1	.1	.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	.1	.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	.2	5.7	8.5	3.0	.2	.0	17.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.5	.0	.0	.0	.0	.8	
1-2	.1	1.1	.5	.0	.0	.0	1.7	
3-4	.0	.8	2.4	.2	.0	.0	3.5	
5-6	.0	.2	2.3	.2	.0	.0	2.7	
7	.0	.0	1.1	.7	.0	.0	1.7	
8-9	.0	.0	.9	.5	.0	.0	1.4	
10-11	.0	.0	.3	.3	.0	.0	.6	
12	.0	.0	.1	.4	.1	.0	.6	
13-16	.0	.0	*	.0	.0	.0	*	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	7.6	2.4	.1	.0	13.1	91.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.4	4.3	.4	.0	.0	.0	14.2	
1-2	.8	15.8	3.7	.0	.0	.0	20.3	
3-4	.0	8.2	15.6	2.1	.0	.0	25.9	
5-6	.0	1.9	14.2	1.9	.1	.0	18.0	
7	.0	.2	6.7	3.2	.3	.0	10.5	
8-9	.0	.1	2.6	1.7	.2	.1	4.7	
10-11	.0	.1	1.0	2.2	.2	.0	3.6	
12	.0	.1	.1	1.2	.2	.0	1.6	
13-16	.0	.0	.1	.5	.2	.1	.9	
17-19	.0	.0	.1	.0	.1	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.1	.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	10.3	30.7	44.5	12.8	1.5	.2	100.0	954

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	20-21	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.9	9.2	15.8	6.9	2.3	.5	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	720	3
6-7	.0	.6	5.1	8.6	6.1	2.4	2.2	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	508	6
8-9	.1	.3	1.4	2.3	2.5	1.9	1.7	.9	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	226	7
10-11	.0	.1	.3	.7	.7	.5	.5	.4	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	67	8
12-13	.0	.0	.3	.1	.2	.3	.1	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	8
>13	.0	.0	.0	.2	.0	.3	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	14	10
INDET	5.1	4.0	4.8	2.5	2.0	.8	.3	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	384	3
TOTAL	137	275	539	415	266	127	95	50	27	6	5	1	0	0	0	0	0	0	0	1943	5
PCT	7.1	14.2	27.7	21.4	13.7	6.5	4.9	2.6	1.4	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1930-1970
(OVER-ALL) 1873-1970

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.3W

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	3.6	2.4	3.5	.0	.5	.0	.0	9.5	2.6	.0	2.4	.0	1.0		.0	84.6
NE	11.7	2.2	7.4	.0	.0	.0	.0	19.8	2.7	.0	8.4	.0	.8		.6	67.7
E	17.0	3.7	9.1	.0	.0	.0	.0	28.5	.8	.0	11.3	.0	1.2		.0	58.2
SE	16.3	5.0	4.4	.0	.0	.0	.0	25.0	3.3	.5	19.7	1.0	1.9		.0	49.1
S	9.8	2.6	3.7	.0	.0	.0	.0	16.0	3.1	.0	23.6	1.2	2.1		.0	54.0
SW	4.4	2.8	2.1	.0	.0	.0	.0	9.2	1.7	.0	17.4	.3	1.6		.0	69.7
W	2.6	2.7	.6	.0	.0	.0	.0	6.0	.9	.0	7.6	.3	.9		.2	84.2
NW	2.4	3.2	.7	.0	.5	.0	.0	6.8	2.3	.0	3.7	.0	1.0		.0	86.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	6.1	3.0	6.1	.0	.0	.0	.0	12.1	.0	.0	27.3	.0	3.0		.0	57.6
TOT PCT	6.5	3.0	2.9	.0	.1	.0	.0	12.2	2.0	*	11.8	.4	1.3		.1	72.3
TOT OBS:	2476															

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	7.4	4.2	3.3	.0	.1	.0	.0	14.4	1.6	.0	10.3	.6	.6		.1	72.4
06&09	6.2	3.1	3.2	.0	.0	.0	.0	12.3	1.5	.2	10.8	.3	1.4		.0	73.7
12&15	6.4	2.1	2.8	.0	.2	.0	.0	11.4	2.5	.0	14.7	.2	2.0		.2	69.1
18&21	6.4	2.3	2.0	.0	.2	.0	.0	10.5	2.3	.0	11.5	.5	1.5		.0	73.7
TOT PCT	6.6	3.0	2.8	.0	.1	.0	.0	12.2	2.0	*	11.8	.4	1.3		.1	72.2
TOT OBS:	2495															

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	3.6	1.8	.6	.0		8.7	16.5	8.0	9.2	8.5	10.4	7.7	12.0	7.6	11.0
NE	.3	2.3	2.6	1.2	.2	.0		6.5	15.1	6.0	8.0	6.5	7.5	7.2	5.4	5.4	6.8
E	.2	1.9	3.0	.9	.1	*		6.1	14.8	6.8	4.1	7.1	7.3	5.9	5.9	5.6	4.7
SE	.3	3.2	3.8	1.2	.3	.0		8.8	14.6	9.3	11.8	6.8	7.6	7.8	9.7	10.7	7.9
S	.3	4.0	5.9	1.9	.4	.0		12.5	15.0	9.6	15.7	12.7	12.7	14.1	13.2	11.9	12.2
SW	.4	5.0	8.9	2.8	.4	*		17.6	15.2	17.8	13.3	19.2	19.7	18.7	18.9	15.7	16.2
W	.4	4.8	9.7	6.6	1.3	*		22.8	18.3	24.9	19.5	24.2	19.0	21.6	19.4	25.9	22.7
NW	.3	3.8	7.1	3.6	.6	.1		15.6	17.2	16.9	17.7	12.7	16.3	15.2	15.1	15.3	17.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.4	.7	.8	.7	2.3	.4	1.7	.5	2.0	1.3
TOT OBS	120	904	1463	655	127	6	3275		16.0	646	293	525	230	632	222	490	237
TOT PCT	3.7	27.6	44.7	20.0	3.9	.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	1.4	3.4	2.8	.9	.2		8.7	16.5	8.4	9.1	8.8	8.7
NE	1.1	2.9	1.7	.8	*		6.5	15.1	6.6	6.8	6.7	5.8
E	.7	3.2	1.9	.3	*		6.1	14.8	5.9	7.2	5.9	5.3
SE	1.3	4.5	2.3	.7	.1		8.8	14.6	10.1	7.1	8.3	9.8
S	1.4	6.6	3.5	1.0	*		12.5	15.0	11.5	12.7	13.9	12.0
SW	2.0	8.3	6.2	1.1	*		17.6	15.2	16.4	19.3	18.8	15.9
W	1.7	9.0	8.4	3.3	.3		22.8	18.3	23.2	22.4	21.0	24.8
NW	1.3	6.5	5.6	2.0	.1		15.6	17.2	17.1	13.8	15.2	15.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.4	.7	.7	1.7	1.4	1.8
TOT OBS	403	1452	1062	328	30	3275		16.0	939	755	854	727
TOT PCT	12.3	44.3	32.4	10.0	.9		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1930-1970
(OVER-ALL) 1873-1970

AREA 0005 PLACENTIA BAY SOUTH
45.0N 54.3W

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	.7	2.8	28.1	44.8	19.7	3.6	.2	15.9	100.0	939
06&09	1.7	1.5	30.2	46.0	17.4	3.2	.1	15.3	100.0	795
12&15	1.4	2.7	27.6	43.9	20.1	4.0	.2	16.0	100.0	856
18&21	1.8	2.2	24.2	44.0	23.0	4.7	.1	16.9	100.0	727
TOT	45	76	904	1463	659	126	6	16.0		3279
PCT	1.4	2.3	27.6	44.7	20.0	3.8	.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	1.5	.8	3.1	3.2		5.7
NE	.5	.4	1.0	4.1		6.8
E	.7	.3	.6	4.3		6.7
SE	1.0	.4	1.4	5.2		6.5
S	1.4	.6	2.5	7.4		4.6
SW	4.2	1.2	4.0	8.2		5.5
W	8.8	3.4	7.0	7.7		4.9
NW	3.5	2.1	5.5	4.8		5.2
VAR	.0	.0	.0	.0		.0
CALM	.2	.3	.2	.6		5.9
TOT OBS	387	186	498	897	1968	5.7
TOT PCT	19.7	9.5	25.3	45.6	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	.3	.0	.3	.8	2.0	1.8	.2	.0	.1	.1	5.1	
NE	.4	.0	.2	1.0	1.6	1.1	.0	.1	.1	.2	1.3	
E	.7	.0	.3	.7	1.4	1.0	*	.0	*	.1	1.5	
SE	1.2	.1	.3	1.1	1.9	.7	.3	.1	*	.2	2.1	
S	1.8	*	.3	1.2	2.6	1.1	.3	.4	.2	.6	3.3	
SW	1.6	.1	.4	1.3	3.1	2.1	.6	.2	.3	.4	7.5	
W	1.0	.1	.3	1.3	5.4	3.4	.9	.1	.1	.3	12.2	
NW	.2	.1	.3	1.1	3.4	2.7	.5	.2	.1	.2	7.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.1	.1	.3	.0	.0	.0	.1	.5	
TOT OBS	145	7	47	168	424	281	85	20	16	43	762	1968
TOT PCT	7.4	.4	2.4	8.5	21.5	14.3	2.8	1.0	.8	2.2	38.7	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	2.7	2.9	3.0	3.0	3.0	3.0	3.0
* OR >5000	1.9	3.6	3.9	4.0	4.0	4.0	4.0	4.0
* OR >3500	3.5	6.2	6.5	6.6	6.6	6.7	6.7	6.7
* OR >2000	10.9	19.9	20.7	20.9	20.9	21.0	21.1	21.1
* OR >1000	21.8	37.6	41.1	41.9	42.0	42.3	42.5	42.6
* OR >600	26.0	43.9	48.7	50.3	50.6	51.0	51.1	51.3
* OR >300	26.7	45.1	50.7	52.6	53.0	53.3	53.5	53.7
* OR >150	26.8	45.3	50.9	52.9	53.3	53.7	53.8	54.0
* OR > 0	27.0	46.0	52.1	54.9	56.0	57.6	60.5	61.2
TOTAL	530	902	1023	1077	1100	1131	1187	1202

TOTAL NUMBER OF OBS: 1963 PCT FREQ NH <5/8: 38.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
12.8	7.0	8.4	5.3	4.7	5.6	10.0	8.4	31.4	6.5	2043

OCTOBER

PERIOD: (PRIMARY) 1930-1970
(OVER-ALL) 1873-1970

AREA 0005 PLACENTIA BAY SOUTH
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TABLE 9

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	.2	.2	.1	.1	.0	.0	.0	.6	
<1/2	NO PCP	*	.2	.3	.7	1.7	1.4	.8	.2	.0	.2	5.9	
	TOT %	*	.2	.3	1.0	1.8	1.7	.9	.2	.0	.2	6.5	
	PCP	*	*	*	.1	.1	.1	*	*	.0	.0	.4	
1/2<1	NO PCP	.1	.2	.2	.3	.3	.1	.1	.1	.0	*	1.3	
	TOT %	.1	.2	.2	.4	.4	.2	.1	.2	.0	*	1.8	
	PCP	.0	.1	.2	.2	.2	.1	.2	.0	.0	.0	.9	
1<2	NO PCP	*	.1	.1	.1	.5	.4	.2	*	.0	*	1.7	
	TOT %	*	.2	.3	.3	.7	.8	.4	*	.0	*	2.7	
	PCP	.1	.5	.4	.8	.6	.9	.2	.1	.0	.0	3.0	
2<5	NO PCP	.1	.2	.1	.6	.6	1.1	.9	.2	.0	*	3.8	
	TOT %	.2	.7	.5	1.4	1.2	1.9	1.1	.3	.0	*	6.8	
	PCP	.5	.5	.9	.7	.7	.9	.7	.7	.0	.1	5.6	
5<10	NO PCP	3.0	2.0	1.4	2.1	3.4	4.9	6.6	4.2	.0	.4	28.0	
	TOT %	3.5	2.5	2.2	2.8	4.1	5.8	7.3	4.8	.0	.6	33.6	
	PCP	.2	.1	.3	.2	.2	.1	.2	.3	.0	*	1.6	
10+	NO PCP	4.9	2.3	2.2	2.9	3.7	7.9	13.5	9.4	.0	.4	47.0	
	TOT %	5.1	2.5	2.5	3.0	3.9	7.8	13.8	9.6	.0	.4	48.6	
	TOT OBS												2447
	TOT PCT	8.3	6.4	6.0	8.9	12.1	17.9	29.6	19.2	.0	1.3	100.7	

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	*	*	.1	*	.0	.0	.2	.3	
<1/2	4-10	*	.1	.2	.4	.8	.9	.4	.1	.0		2.9	
	11-21	.0	.1	.2	.6	.9	.5	.4	*	.0		2.8	
	22+	.0	*	*	.1	.1	.2	.1	.0	.0		.6	
	TOT %	*	.3	.4	1.1	1.9	1.7	.9	.2	.0	.2	6.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
1/2<1	4-10	*	*	.1	.1	.2	.1	.0	.1	.0		.6	
	11-21	*	.1	.1	.2	.3	.1	.1	.1	.0		1.0	
	22+	*	.0	.0	.1	*	*	*	*	.0		.2	
	TOT %	.1	.2	.2	.3	.5	.3	.1	.2	.0	*	1.8	
	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	*	.1	
1<2	4-10	*	.1	.1	.1	.2	.2	.1	*	.0		.7	
	11-21	*	.1	.1	.1	.2	.4	.2	.0	.0		1.1	
	22+	*	*	*	.2	.2	.1	.1	.1	.0		.7	
	TOT %	.1	.2	.2	.4	.7	.7	.4	.1	.0	*	2.7	
	0-3	.0	*	.0	.1	*	.1	*	.0	.0	*	.2	
2<5	4-10	.1	.1	*	.2	.2	.3	.3	.1	.0		1.2	
	11-21	.1	.3	.3	.5	.5	.6	.4	.1	.0		2.7	
	22+	.1	.3	.1	.6	.6	.3	.4	.2	.0		2.6	
	TOT %	.2	.7	.5	1.3	1.3	1.2	1.1	.4	.0	*	6.7	
	0-3	.1	*	.0	*	.1	.1	*	.1	.0	.5	.9	
5<10	4-10	.6	.6	.6	.9	1.2	1.2	1.0	.9	.0		7.0	
	11-21	1.2	1.0	1.1	1.2	2.1	3.0	3.0	1.8	.0		14.5	
	22+	1.2	.8	.4	.5	.8	1.2	2.5	1.5	.0		8.7	
	TOT %	3.1	2.4	2.0	2.5	4.1	5.4	6.6	4.3	.0	.5	31.1	
	0-3	.1	.1	.1	.2	.1	.2	.2	.1	.0	.5	1.7	
10+	4-10	1.7	1.2	.9	1.4	1.3	2.2	3.1	2.6	.0		14.4	
	11-21	2.3	1.0	1.3	1.2	2.0	4.6	6.1	4.8	.0		23.3	
	22+	1.2	.3	.5	.1	.5	1.4	4.9	2.7	.0		11.7	
	TOT %	5.4	2.6	2.8	2.9	4.0	8.5	14.2	10.2	.0	.5	51.1	
	TOT OBS												2888
	TOT PCT	8.9	6.4	6.1	8.6	12.4	17.8	23.3	15.3	.0	1.4	100.0	

PERIOD: (PRIMARY) 1930-1970
(OVER-ALL) 1873-1970

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.3W

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	6.7	.6	2.1	8.5	20.6	13.3	2.5	1.3	1.0	1.9	58.5	41.5	520
06&09	8.0	.8	1.9	7.1	22.9	12.8	2.9	.8	.4	2.5	59.5	40.9	477
12&15	9.4	.2	2.1	9.6	20.8	15.0	3.8	.8	.8	1.5	64.0	36.0	480
18&21	5.4	.6	3.3	9.1	21.0	15.8	1.9	1.0	1.0	2.7	61.8	38.8	514
TOT	146	7	47	171	426	282	55	20	16	43	1211	780	1991
PCT	7.3	.4	2.4	8.6	21.3	14.2	2.8	1.0	.8	2.2	60.8	39.2	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	6.8	1.2	1.4	7.3	36.2	47.0	812
06&09	6.3	1.9	2.0	6.3	29.7	53.9	688
12&15	8.4	2.9	4.2	6.7	27.0	50.7	734
18&21	5.1	1.5	3.0	6.4	30.9	53.2	673
TOT	195	94	77	194	904	1483	2907
PCT	6.7	1.9	2.6	6.7	31.1	51.0	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	6.8	10.9	25.3	34.7	40.0	513
06&09	8.5	11.3	23.9	38.0	38.2	469
12&15	9.3	13.3	28.5	37.8	33.8	474
18&21	5.3	9.5	23.3	40.0	36.7	507
TOT	145	220	495	738	730	1963
PCT	7.4	11.2	25.2	37.6	37.2	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
65/69	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
60/64	.0	.0	.0	.1	.1	.2	.5	.8	27	1.6
55/59	.0	.0	.0	.1	.4	1.4	3.6	5.7	192	11.2
50/54	.0	.0	.1	.6	3.1	4.7	13.0	16.1	644	37.6
45/49	.0	.0	.3	.9	3.4	8.6	10.2	10.9	589	34.4
40/44	.0	.0	.1	.8	3.0	3.7	3.2	2.2	220	12.9
35/39	.0	.0	.0	.2	.8	.2	.4	.5	36	2.1
30/34	.0	.0	.0	.0	.1	.1	.0	.0	2	.1
TOTAL	0	0	7	44	185	324	530	621	1711	100.0
PCT	.0	.0	.4	2.6	10.8	18.9	31.0	36.3		

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	.0	.0	.0	.1
*	.0	.0	.2	.5	.6	.2	*	.0	.0
.2	.1	.3	1.2	3.2	3.1	2.1	.9	.0	.1
1.9	1.5	2.7	4.2	5.5	8.1	8.8	4.7	.0	.4
3.5	3.6	2.9	2.7	2.6	4.5	9.1	5.2	.0	.3
2.9	1.2	.6	.4	.7	.5	2.7	3.8	.0	.2
.9	.2	.1	.0	.0	.0	.4	.6	.0	.0
.0	.0	.0	.0	.0	.0	*	.1	.0	.0
9.4	6.5	6.5	8.6	12.6	16.8	23.3	15.3	.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	63	60	57	49	41	37	35	49.2	936
06&09	64	59	57	50	41	36	33	49.3	749
12&15	64	61	59	50	42	38	35	50.4	846
18&21	67	62	59	50	42	38	35	50.3	723
TOT	67	61	58	50	41	38	33	49.8	3254

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	3.2	10.6	17.8	28.7	39.7	84	471
06&09	.0	1.7	9.0	21.5	33.0	34.7	84	409
12&15	.0	2.8	9.6	18.8	32.7	36.0	84	425
18&21	.0	4.1	13.7	18.0	30.2	34.1	83	417
TOT	0	51	185	327	535	624	84	1722

OCTOBER

PERIOD: (PRIMARY) 1930-1970
(OVER-ALL) 1873-1970

AREA 0005 PLACENTIA BAY SOUTH
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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	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	*	.0	*	2	.0	.1
14/16	.0	.0	.0	.0	.0	*	.0	*	.0	2	.0	.1
11/13	.0	.0	.0	*	.1	.1	.0	.1	.0	7	*	.3
9/10	.0	.0	.0	.1	.1	.4	.2	.1	.0	20	.1	.8
7/8	.0	.0	.0	.1	.5	.8	.4	.2	.0	45	.3	1.7
6	.0	.0	.0	.1	.8	1.5	.6	*	*	67	.7	2.3
5	.0	.0	.0	.3	1.3	1.4	.7	.1	.0	83	1.0	2.8
4	.0	.0	*	.4	3.0	1.7	.9	.1	.0	135	1.0	5.1
3	.0	*	.1	.9	3.4	2.3	.8	.1	.0	169	1.3	6.4
2	.0	.0	.2	2.2	3.5	2.5	.9	.0	.0	205	2.0	7.4
1	.0	*	.5	1.7	4.1	2.6	.4	*	.0	206	1.7	7.6
0	.0	.0	.3	3.4	4.5	1.1	.2	.0	.0	210	1.2	8.3
-1	.0	.1	1.2	3.4	3.4	1.3	.2	*	.0	217	.8	9.1
-2	.0	.2	2.0	3.3	2.7	1.0	.2	.0	.0	206	.7	8.6
-3	.0	.2	1.3	2.0	1.8	1.0	.0	.0	.0	139	.3	6.0
-4	.0	.4	1.3	2.3	1.5	.4	.2	.0	.0	133	.4	5.7
-5	.0	.3	1.0	2.0	1.0	.3	.0	*	.0	102	.1	4.5
-6	*	.5	.8	1.0	.5	.1	.0	.0	.0	64	*	2.9
-7/-8	.4	.7	1.4	1.4	.4	.2	*	.0	.0	100	.1	4.4
-9/-10	.2	.4	1.0	.7	.1	*	*	.0	.0	55	.0	2.5
-11/-13	.1	.3	.6	.1	.1	*	.0	.0	.0	29	.0	1.3
-14/-16	.0	.0	.1	.1	*	.0	.0	.0	.0	6	.0	.3
-17/-19	.0	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	16	72	263	565	723	412	128	23	2	2204	261	1943
PCT	.7	3.3	11.9	25.6	32.8	18.7	5.8	1.0	.1	100.0	11.8	88.2

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	.0	.0	.0	.0	.1
1-2	.1	.8	.0	.0	.0	.0	.9
3-4	.0	.6	2.0	.0	.0	.0	2.5
5-6	.0	.0	1.2	.1	.0	.0	1.3
7	.0	.0	.4	.2	.0	.0	.6
8-9	.0	.0	.0	.4	.3	.0	.7
10-11	.0	.0	.0	.0	.1	.0	.1
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	.1	1.4	3.5	.9	.6	.0	6.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.3
1-2	.0	.9	.2	.0	.0	.0	1.1
3-4	.0	.3	.9	.0	.0	.0	1.2
5-6	.0	.0	.3	.1	.0	.0	.5
7	.0	.0	*	.3	.0	.0	.3
8-9	.0	.0	.1	.3	.1	.0	.6
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.1	.0	.0	.1
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	.1	.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	.1	1.3	1.6	1.1	.3	.0	4.5

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	.7	.4	.0	.0	.0	1.1
3-4	.0	.1	.8	.1	.0	.0	1.0
5-6	.0	.1	.6	.3	.0	.0	.9
7	.0	.0	.1	.2	.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	.1	.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	1.2	1.8	.7	.1	.0	3.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.0	.0	.0	.0	.8
1-2	.0	1.5	.8	.0	.0	.0	2.3
3-4	.0	.5	1.4	*	.0	.0	1.9
5-6	.0	*	1.3	.3	.0	.0	1.7
7	.0	.1	.1	.5	.0	.0	.8
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.1	.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	.2	2.8	3.7	1.7	.1	.0	8.4

PERIOD: (OVER-ALL) 1963-1970 OCTOBER AREA 0009 PLACENTIA BAY SOUTH

TABLE 18 (CONT) 45.9N 54.3W

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	.3	.0	.0	.0	.0	.6
1-2	.0	1.9	.9	.0	.0	.0	2.8
3-4	.0	1.8	1.6	.9	.0	.0	4.3
5-6	.0	.3	1.8	.5	.0	.0	2.6
7	.0	.0	1.2	1.1	.1	.0	2.4
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.1	.3	.0	.0	.4
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.1	.3	.3	.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	.2	4.3	5.9	3.2	.4	.0	14.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3
1-2	.1	3.1	.9	.0	.0	.0	4.1
3-4	.0	1.8	3.2	.3	.0	.0	5.2
5-6	.0	.6	2.4	.4	.0	.0	3.4
7	.0	*	2.0	1.3	.0	.0	3.3
8-9	.0	.1	1.1	.7	.1	.1	2.1
10-11	.0	.0	.6	.9	.0	.0	1.5
12	.0	.0	*	.2	.2	.0	.4
13-16	.0	.0	*	.6	.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	.3	5.9	10.3	4.4	.2	.1	21.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.3	2.4	1.1	.0	.0	.0	3.8
3-4	.0	2.3	2.8	.4	.0	.0	5.6
5-6	.0	.1	2.9	1.9	.0	.0	4.8
7	.0	.1	3.1	2.4	.5	.0	6.1
8-9	.0	.0	1.2	1.3	.1	.0	2.7
10-11	.0	.0	.6	1.8	.0	.0	2.4
12	.0	.0	.1	.6	.4	.0	1.0
13-16	.0	.0	.0	.2	.1	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.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	5.5	11.7	8.6	1.3	.0	27.4

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	*	.8	.9	.0	.0	.0	1.7	
3-4	.0	1.0	1.6	.3	.0	.0	2.9	
5-6	.0	.3	2.0	.6	.0	.0	3.0	
7	.0	.0	1.4	1.2	*	.0	2.6	
8-9	.0	.0	.4	.8	.0	.1	1.3	
10-11	.0	.0	*	.2	.1	.1	.5	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	.3	.0	.0	.3	
17-19	.0	.0	.0	.1	.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	*	2.1	6.3	3.8	.2	.3	12.7	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	2.3	2.2	.0	.0	.0	.0	4.5	
1-2	.6	12.0	5.1	.0	.0	.0	17.6	
3-4	.0	8.4	14.2	2.1	.0	.0	24.7	
5-6	.0	1.4	12.5	4.3	.0	.0	18.2	
7	.0	.3	8.4	7.2	.7	.0	16.5	
8-9	.0	.1	2.9	3.7	.6	.3	7.6	
10-11	.0	.0	1.4	3.4	.3	.1	5.2	
12	.0	.0	.1	1.5	.7	.0	2.3	
13-16	.0	.1	.1	1.8	.6	.0	2.6	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.1	.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	
								726
TOT PCT	2.9	24.5	44.8	24.2	3.2	.4	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	.7	6.7	13.5	8.9	4.1	1.2	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	597	4
6-7	.1	.7	5.5	7.9	7.2	4.9	2.2	.8	1.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	508	6
8-9	.0	.4	.8	1.7	3.2	3.0	3.0	2.5	1.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	270	9
10-11	.0	.1	.2	.2	.6	.7	.7	.4	.7	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	65	10
12-13	.0	.0	.1	.0	.0	.1	.4	.2	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	16	12
>13	.0	.0	.0	.1	.0	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	13
INDET	1.4	3.1	3.6	1.9	1.3	.6	.2	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	204	4
TOTAL	36	181	397	345	273	175	118	67	59	8	6	1	2	0	0	0	0	0	0	1668	6
PCT	2.2	10.9	23.8	20.7	16.4	10.5	7.1	4.0	3.5	.5	.4	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1875-1970

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.2W

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	1.4	3.0	.0	1.4	.0	.3	9.2	2.4	.0	2.0	.2	.0		.0	86.2
NE	9.8	2.2	2.5	.0	2.5	.0	.0	15.9	3.2	.0	6.6	1.2	.9		.0	72.7
E	9.6	.9	11.9	.0	1.1	.0	.0	21.6	2.5	.0	17.5	.0	.4		.0	58.0
SE	13.9	1.1	7.8	.0	.1	.0	.0	20.4	3.1	.0	25.8	.1	.7		.0	50.0
S	10.9	1.8	7.2	.0	.0	.3	.0	18.4	2.8	.3	18.6	1.1	1.8		.0	57.1
SW	8.4	1.5	6.0	.0	.2	.0	.1	15.2	3.5	.0	12.5	.4	.9		.0	67.5
W	3.7	1.6	1.4	.0	3.5	.2	.6	10.3	4.7	.0	4.7	.8	1.4		.0	78.1
NW	3.9	1.3	.7	.0	2.8	.0	.4	8.6	2.3	.0	1.5	.3	.1		.0	87.2
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	12.0	4.0	32.0	4.0	.0		.0	48.0
TOT PCT	7.1	1.5	4.3	.0	1.7	.1	.2	13.8	3.3	.1	10.1	.6	.8		.0	71.4
TOT OBS:	2645															

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	6.5	1.7	4.0	.0	1.4	.0	.3	13.0	2.7	.1	10.1	.6	.3		.0	73.1
06&09	8.1	1.7	5.8	.0	1.4	.0	.3	15.3	4.0	.2	7.6	.6	.5		.0	71.9
12&15	5.8	1.4	4.8	.0	1.9	.0	.3	13.5	3.9	.0	11.6	.6	1.3		.0	69.2
18&21	7.7	1.1	2.9	.0	2.1	.3	.0	13.1	2.6	.0	11.2	.3	1.3		.0	71.5
TOT PCT	7.0	1.5	4.4	.0	1.7	.1	.2	13.7	3.2	.1	10.1	.6	.8		.0	71.5
TOT OBS:	2685															

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	2.6	5.2	2.1	.5	*		10.7	16.7	11.4	12.1	10.9	12.8	10.9	10.2	7.8	9.9
NE	.2	2.2	3.2	1.6	.5	.1		7.8	16.8	8.4	5.5	7.9	9.0	7.5	8.4	8.0	8.0
E	.2	2.2	3.4	2.2	.4	*		8.4	17.3	7.7	5.6	8.1	10.0	9.4	7.5	10.0	8.8
SE	.2	2.4	3.3	2.2	.5	.1		8.6	18.1	8.7	9.8	7.5	6.3	10.2	9.1	8.4	8.0
S	.3	3.6	4.8	3.7	.5	.1		13.0	17.2	12.4	13.7	13.6	10.2	12.9	11.9	16.3	10.9
SW	.2	3.2	5.4	2.5	.4	.1		11.9	16.4	11.4	10.2	12.6	14.9	10.6	11.0	12.3	13.8
W	.4	5.1	7.4	7.1	1.4	.2		21.6	19.0	22.1	24.2	22.2	20.0	19.0	21.7	22.3	21.5
NW	.2	3.7	7.1	5.0	.8	.1		16.9	18.6	16.6	18.0	16.1	16.7	18.5	19.4	13.8	18.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0							1.0	.0	1.2	.9	1.1	.0	1.0	.8	1.3	.8
TOT OBS	103	839	1338	886	167	24	3357		17.6	667	338	540	252	593	236	467	264
TOT PCT	3.1	25.0	39.9	26.4	5.0	.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	1.0	4.3	4.2	1.0	.1		10.7	16.7	11.6	11.5	10.7	8.6
NE	.9	3.3	2.6	1.0	.1		7.8	16.8	7.4	8.3	7.7	8.0
E	1.0	3.2	3.1	1.1	*		8.4	17.3	7.0	8.7	8.8	9.5
SE	.8	3.1	3.3	1.1	.3		8.6	18.1	9.1	7.1	9.9	8.2
S	1.6	5.0	4.7	1.5	.2		13.0	17.2	12.9	12.5	12.6	14.3
SW	1.4	5.4	3.8	1.1	.2		11.9	16.4	11.0	13.4	10.7	12.9
W	2.4	7.2	7.1	4.4	.5		21.6	19.0	22.8	21.5	19.8	22.0
NW	1.3	5.9	7.1	2.3	.4		16.9	18.6	17.1	16.3	18.8	15.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.0						1.0	.0	1.1	.8	1.0	1.1
TOT OBS	385	1254	1203	436	59	3337		17.6	1003	792	829	731
TOT PCT	11.5	37.4	35.8	13.0	1.8		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1933-1970
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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	1.1	2.1	24.6	40.0	27.4	4.2	.7	17.5	100.0	1005
06&09	.8	2.3	27.3	41.0	23.2	4.5	.9	16.8	100.0	792
12&15	1.0	2.9	25.6	38.4	27.5	4.1	.6	17.3	100.0	829
18&21	1.1	1.0	22.4	40.1	27.2	7.5	.7	18.7	100.0	731
TOT	33	70	839	1338	886	167	24	17.6		3357
PCT	1.0	2.1	25.0	39.9	26.4	5.0	.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	1.4	1.2	2.6	4.5		6.0
NE	.8	.4	1.8	5.7		6.8
E	.5	.4	1.8	6.7		7.1
SE	.5	.5	1.5	6.7		7.0
S	1.2	.8	3.1	9.0		6.7
SW	1.5	.9	2.6	6.5		6.2
W	3.4	2.2	7.2	8.2		5.7
NW	3.0	1.7	5.3	5.3		5.5
VAR	.0	.0	.0	.0		.0
CALM	.3	.0	.2	.5		5.2
TOT OBS	234	153	484	987	1858	6.3
TOT PCT	12.6	8.2	26.0	53.1	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	.2	.1	.3	1.3	2.3	1.5	.4	.2	.1	.0	3.2	
NE	.4	*	.4	1.1	2.5	1.6	.6	.1	*	*	1.9	
E	1.4	.1	.4	1.1	2.8	1.2	.6	.1	.1	.1	1.5	
SE	2.0	.1	.1	1.5	1.6	1.0	.4	.1	.1	.2	2.1	
S	2.6	.3	.4	1.5	2.2	2.0	.6	.1	.2	.5	3.7	
SW	1.3	.1	.3	.8	2.4	1.9	.4	.1	.2	.3	3.7	
W	.5	.0	.7	2.1	4.6	3.9	.4	.3	.2	.3	8.1	
NW	.3	*	.2	1.6	3.9	2.3	.6	.1	*	.0	6.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.1	.2	.1	.1	.0	.0	.0	.0	.3	
TOT OBS	166	16	50	205	418	289	74	23	19	26	572	1858
TOT PCT	8.9	.9	2.7	11.0	22.5	15.6	4.0	1.2	1.0	1.4	30.8	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	1.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4
* OR >5000	2.3	3.4	3.5	3.5	3.6	3.6	3.6	3.6
* OR >3500	4.8	7.2	7.4	7.5	7.5	7.5	7.6	7.6
* OR >2000	13.8	21.5	22.5	22.8	22.9	22.9	22.9	23.0
* OR >1000	25.5	40.9	43.9	45.0	45.1	45.3	45.4	45.5
* OR >600	30.6	49.1	54.0	55.6	56.0	56.2	56.4	56.5
* OR >300	31.5	50.8	56.2	57.9	58.6	58.9	59.1	59.2
* OR >150	31.8	51.1	56.9	58.8	59.4	59.7	60.0	60.1
* OR > 0	32.0	51.8	58.1	60.3	62.0	63.5	68.5	68.9
TOTAL	596	966	1083	1124	1156	1183	1276	1285

TOTAL NUMBER OF OBS: 1864 PCT FREQ NH <5/8: 31.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	*	6	7	8	OBSCD	TOTAL OBS
7.7	4.0	9.1	5.4	4.9	5.7	9.9	8.5	37.0	7.9	1981

NOVEMBER

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1875-1970

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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
	PCP	.0	.1	.1	.1	.3	*	.1	*	.0	.0	.8	
<1/2	NO PCP	*	.1	1.0	1.4	1.7	.9	.2	.1	.0	.3	5.7	
	TOT %	*	.2	1.1	1.5	2.0	.9	.3	.1	.0	.3	6.4	
	PCP	.1	.1	.1	.1	*	.1	.1	*	.0	.0	.6	
1/2<1	NO PCP	.0	.1	.2	.4	.4	.1	.1	*	.0	*	1.5	
	TOT %	.1	.2	.4	.6	.4	.2	.2	*	.0	*	2.1	
	PCP	.0	.2	.2	.2	.3	.2	.2	.1	.0	.0	1.3	
1<2	NO PCP	*	.1	.1	.1	.2	.2	.1	.0	.0	*	.8	
	TOT %	*	.3	.3	.3	.5	.3	.3	.1	.0	*	2.2	
	PCP	.2	.3	.6	.6	.7	.4	.3	.1	.0	.0	3.2	
2<5	NO PCP	.1	.2	.4	.5	.7	.6	.8	.1	.0	*	3.5	
	TOT %	.3	.5	1.0	1.2	1.4	.9	1.1	.2	.0	*	6.7	
	PCP	.6	.5	.7	.7	.9	.8	1.3	.8	.0	.0	6.3	
5<10	NO PCP	2.2	1.9	2.2	1.8	4.0	3.1	5.2	4.2	.0	.1	24.8	
	TOT %	2.8	2.4	3.0	2.6	4.9	4.0	6.5	5.0	.0	.1	31.1	
	PCP	.2	.1	.2	.1	.2	.2	.3	.4	.0	.0	1.7	
10+	NO PCP	7.8	4.5	3.1	2.5	3.9	4.7	12.7	10.1	.0	.5	49.8	
	TOT %	8.0	4.6	3.3	2.6	4.1	4.8	13.1	10.5	.0	.5	51.5	
	TOT OBS												2644
	TOT PCT	11.2	8.2	9.1	8.7	13.4	11.2	21.4	15.9	.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
	0-3	.0	.0	.1	*	.1	.0	.0	.0	.0	.2	.4	
<1/2	4-10	*	*	.3	.7	.5	.5	.2	*	.0		2.2	
	11-21	*	*	.6	.5	.8	.6	.3	.1	.0		2.8	
	22+	.0	.1	.1	.2	.7	.2	.0	.0	.0		1.3	
	TOT %	*	.2	1.1	1.4	2.0	1.2	.5	.1	.0	.2	6.7	
	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	*	.1	
1/2<1	4-10	*	*	*	.2	.1	.1	*	.0	.0		.4	
	11-21	.0	.1	.1	.2	.2	.1	.1	*	.0		.8	
	22+	*	*	.2	.2	.1	*	*	*	.0		.6	
	TOT %	.1	.2	.3	.6	.4	.2	.2	*	.0	*	1.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	.1	.1	
1<2	4-10	*	.1	*	.1	.1	*	.0	.0	.0		.3	
	11-21	*	.1	.1	.1	.1	.2	.2	*	.0		.9	
	22+	.0	.1	.1	.2	.3	.1	.1	.1	.0		1.0	
	TOT %	.1	.3	.3	.4	.5	.3	.3	.1	.0	.1	2.3	
	0-3	*	.0	*	.0	*	.0	.0	*	.0	*	.1	
2<5	4-10	.1	*	.1	.2	.2	.1	.3	.2	.0		1.1	
	11-21	.1	.2	.4	.5	.4	.4	.4	.2	.0		2.6	
	22+	.1	.2	.3	.6	.9	.5	.5	.1	.0		3.2	
	TOT %	.3	.5	.9	1.2	1.5	1.0	1.2	.4	.0	*	7.1	
	0-3	.1	.0	.0	*	.1	.1	.1	.1	.0	.1	.5	
5<10	4-10	.6	.5	.6	.3	.9	.7	1.3	.7	.0		5.7	
	11-21	1.0	.9	.7	1.0	1.9	1.8	1.9	2.0	.0		11.2	
	22+	1.0	.8	1.4	1.1	1.9	1.4	3.1	2.0	.0		12.6	
	TOT %	2.7	2.2	2.7	2.5	4.8	3.9	6.5	4.8	.0	.1	30.1	
	0-3	.3	.2	.1	.1	.1	.1	.3	.1	.0	.5	1.7	
10+	4-10	1.8	1.5	1.1	1.1	1.6	1.6	3.1	2.6	.0		14.6	
	11-21	4.1	1.9	1.6	.9	1.6	2.4	4.6	4.5	.0		21.6	
	22+	1.6	.7	.5	.6	.6	1.0	5.3	3.9	.0		14.2	
	TOT %	7.8	4.2	3.2	2.7	3.9	5.2	13.3	11.1	.0	.5	51.9	
	TOT OBS												2992
	TOT PCT	11.0	7.6	8.5	8.7	13.0	11.8	21.9	16.6	.0	.9	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1939-1970
(OVER-ALL) 1875-1970

AREA 0003 PLACENTIA BAY SOUTH
45.9N 54.2W

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	9.1	.9	3.5	6.7	20.1	14.9	3.5	1.1	1.5	1.9	63.3	36.7	537
06&09	8.4	1.5	3.0	11.0	20.3	15.1	4.3	1.1	.6	1.3	66.6	33.4	464
12&15	8.0	.5	2.5	14.9	23.4	15.6	3.2	1.4	.7	.9	71.3	28.7	435
18&21	9.3	.4	1.5	11.2	24.8	15.3	4.4	1.3	1.1	1.3	70.6	29.4	472
TOT	167	16	51	205	421	290	74	23	19	26	1292	616	1908
PCT	8.8	.8	2.7	10.7	22.1	15.2	3.9	1.2	1.0	1.4	67.7	32.3	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	7.4	2.2	2.2	5.9	35.7	46.5	891
06&09	5.8	1.2	1.1	6.6	28.0	57.2	738
12&15	6.3	2.6	2.8	8.3	27.4	52.6	720
18&21	7.6	1.8	2.9	7.3	26.5	53.9	683
TOT	206	60	68	212	903	1583	3032
PCT	6.8	2.0	2.2	7.0	29.8	52.2	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	9.2	14.4	24.6	41.1	34.4	521
06&09	8.8	14.3	29.7	39.0	31.3	454
12&15	8.0	12.0	32.7	40.5	26.8	425
18&21	9.7	12.9	29.3	43.1	27.6	464
TOT	167	251	538	763	563	1864
PCT	9.0	13.5	28.9	40.9	30.2	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
65/69	.0	.0	.0	*	.0	.0	.0	.0	1	*
60/64	.0	.0	.0	*	.0	.0	.0	.0	1	*
55/59	.0	.0	.0	.0	.0	*	.3	1.1	31	1.5
50/54	.0	*	.0	.0	.4	.5	2.6	6.3	201	9.8
45/49	.0	*	*	.2	1.4	6.7	8.5	14.3	641	31.3
40/44	.0	.0	.0	.5	4.7	8.6	12.0	10.1	734	35.8
35/39	.0	.0	.1	.6	3.3	4.1	5.5	3.6	352	17.2
30/34	.0	.0	.0	*	.8	1.0	.7	1.1	77	3.8
25/29	.0	.0	.0	.0	.0	.1	*	.3	10	.5
TOTAL	0	2	3	30	218	433	608	754	2048	100.0
PCT	.0	.1	.1	1.5	10.6	21.1	29.7	36.8		

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
	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
	.0	*	*	.2	.9	.2	.1	.0	.0	.0
	.1	.2	.3	1.8	4.0	2.0	1.0	.3	.0	.1
	2.9	1.5	2.5	3.9	5.8	4.7	6.5	3.2	.0	.3
	5.2	3.6	3.9	2.3	2.3	3.1	8.4	6.8	.0	.2
	3.1	2.2	1.3	.6	.5	1.0	4.6	3.9	.0	.0
	.4	.1	.2	.1	.0	.2	1.2	1.5	.0	.0
	*	*	.0	.0	.0	.0	.1	.3	.0	.0
	11.7	7.7	8.3	8.9	13.5	11.3	22.0	16.0	.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	57	55	51	43	34	30	26	42.6	1005
06&09	59	55	52	43	34	30	25	42.9	796
12&15	58	56	53	43	33	27	26	43.2	824
18&21	66	55	52	44	35	29	24	43.7	730
TOT	66	55	52	43	34	29	24	43.1	3355

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	10.6	20.9	30.0	36.5	84	616
06&09	.0	2.3	9.8	21.2	30.8	35.9	84	523
12&15	.0	1.3	11.6	21.1	27.6	38.4	84	474
18&21	.0	1.5	12.0	22.7	28.9	34.9	83	467
TOT	0	37	227	446	612	758	84	2080

NOVEMBER

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1875-1970

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.2W

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	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	1	.0	*
11/13	.0	.0	.0	.0	.0	.0	.2	.1	.1	*	11	.1	.3
9/10	.0	.0	.0	*	.0	.2	.3	.2	*	.0	17	.2	.5
7/8	.0	.0	.0	.0	.0	.8	.8	.6	.1	.0	55	.7	1.6
6	.0	.0	.0	.1	.2	.7	.7	.6	*	.0	56	.7	1.7
5	.0	.0	.0	*	.4	1.3	1.1	.5	*	.0	82	1.2	2.2
4	.0	.0	.0	.0	.8	1.5	1.3	.2	*	.0	93	1.1	2.8
3	.0	.0	.0	.2	1.3	2.2	1.6	.4	.0	.0	136	1.0	4.7
2	.0	.0	.0	.3	1.3	3.0	1.3	.2	.1	.0	150	.8	5.4
1	.0	.0	*	.8	2.2	3.4	1.2	*	.0	.0	186	1.0	6.7
0	.0	.0	.2	1.4	3.5	4.0	.9	.2	.0	.0	246	.8	9.4
-1	.0	.0	.1	1.6	3.8	2.4	.7	.0	.0	.0	207	.5	8.0
-2	.0	.1	.3	2.6	3.7	2.3	.4	.0	*	.0	229	.3	9.2
-3	.0	*	.7	1.9	3.0	2.2	.1	.1	.0	.0	195	.4	7.7
-4	.0	.0	.7	1.8	2.5	.9	.1	.0	.0	.0	146	.1	6.0
-5	.0	*	1.2	2.4	2.0	1.0	*	.0	.0	.0	162	.1	6.6
-6	.0	.3	.9	1.7	1.8	.5	*	.0	.0	.0	125	*	5.1
-7/-8	.2	.5	2.1	2.9	1.3	.7	.0	.0	.0	.0	187	.1	7.6
-9/-10	.1	.5	.9	1.1	.7	.1	.0	.0	.0	.0	81	.1	3.2
-11/-13	.0	.2	.7	.4	.2	*	.0	.0	.0	.0	39	.0	1.6
-14/-16	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	9	.0	.4
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	*		187		696		263		11	1		223	2192
		47		470		658		73			2415		
PCT	.4	1.9	7.7	19.5	28.8	27.2	10.9	3.0	.5	*	100.0	9.2	90.8

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	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.4	.4	.0	.0	.0	.8
3-4	.2	.3	1.1	.2	.0	.0	1.7
5-6	.0	.0	1.0	.4	.2	.0	1.6
7	.0	.0	.9	.3	.2	.0	1.3
8-9	.0	.0	.2	.1	.2	.0	.5
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.1	.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	.2	.8	3.8	1.2	.5	.0	6.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	1.2	.2	.0	.0	.0	1.4
3-4	.2	.3	2.0	.2	.0	.0	2.6
5-6	.0	.1	.7	.4	.0	.0	1.2
7	.0	.0	1.0	.5	.0	.0	1.5
8-9	.0	.0	.4	.2	.3	.0	.9
10-11	.0	.0	*	*	.0	.0	.1
12	.0	.0	.0	.1	.5	.0	.6
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	.2	1.7	4.3	1.4	1.0	.0	8.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.1	.0	.0	.0	.0	.3
1-2	.0	.8	.6	.0	.0	.0	1.3
3-4	.0	1.0	2.1	.2	.0	.0	3.2
5-6	.0	.4	.8	.6	.0	.0	1.8
7	.0	.2	.8	.9	.2	.0	2.1
8-9	.0	.0	.6	.2	.0	.0	.8
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.1	.2	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.1	.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	2.4	5.0	2.1	.3	.1	10.1

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	1.9	.8	.0	.0	.0	2.7
3-4	.0	1.1	.2	*	.0	.0	1.4
5-6	.0	.3	1.8	.5	.0	.0	2.6
7	.0	.0	.2	.7	*	.0	1.0
8-9	.0	.0	.3	.5	.0	.0	.8
10-11	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.2	.7	.0	.8
17-19	.0	.0	.0	.0	.2	*	.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	3.9	3.3	2.7	.9	*	10.9

PERIOD: (OVER-ALL) 1963-1970

NOVEMBER

TABLE 18 (CONT)

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.2W

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	.1	.0	.0	.0	1.0	.1	.4	*	.0	.0	.0	.5
1-2	.2	2.2	.7	.0	.0	.0	3.1	.0	1.4	*	.0	.0	.0	1.4
3-4	.0	1.0	1.5	.3	.0	.0	2.8	.0	.8	1.1	.0	.0	.0	1.9
5-6	.0	.6	2.5	.2	.0	.0	3.2	.0	*	.9	.3	.0	.0	1.2
7	.0	.0	1.7	1.0	.3	.0	3.0	.0	.0	.8	.1	.3	.0	1.2
8-9	.0	.0	.5	.6	.0	.1	1.3	.0	.0	.4	.6	.4	*	1.5
10-11	.0	.0	.0	.6	.0	.0	.6	.0	.0	.3	.4	.0	.2	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.6	.1	.0	.8	.0	.0	.0	*	*	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
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	4.7	7.0	3.3	.4	.1	15.7	.1	2.6	3.6	1.8	.8	.2	9.1

	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	1.3	.0	.0	.0	.0	1.5	.0	.6	.0	.0	.0	.0	.6	
1-2	.2	1.4	.4	.0	.0	.0	2.0	.0	.8	.9	.0	.0	.0	1.6	
3-4	.0	1.6	4.1	.6	.0	.0	6.2	.0	1.2	2.1	.4	.0	.0	3.7	
5-6	.0	.2	2.4	1.1	.0	.0	3.6	.0	.0	2.1	1.2	.0	.0	3.3	
7	.0	.0	1.5	1.5	.0	.0	2.9	.0	.0	1.3	.9	.0	.0	2.2	
8-9	.0	.1	.7	.8	.9	.2	2.1	.0	*	.1	1.2	*	.0	1.3	
10-11	.0	.0	.3	1.0	.3	.0	1.6	.0	.0	*	.2	.2	.0	.4	
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.9	.8	.0	1.7	.0	.0	.0	.4	.4	.0	.8	
17-19	.0	.0	.0	.0	.4	.1	.6	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.2	.2	.3	.0	.0	.0	.0	.3	.2	.5	
23-25	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.2	.0	.2	
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	4.5	9.4	6.1	2.1	.4	23.0	.0	2.6	6.9	4.3	1.1	.2	14.7	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	2.1	4.4	.2	.0	.0	.0	6.6	
1-2	.3	10.0	4.0	.0	.0	.0	14.2	
3-4	.3	7.3	14.1	1.7	.0	.0	23.4	
5-6	.0	1.6	12.2	4.6	.2	.0	18.5	
7	.0	.2	8.2	5.9	.9	.0	15.2	
8-9	.0	.2	3.2	4.3	1.1	.3	9.0	
10-11	.0	.0	.9	2.8	.5	.2	4.4	
12	.0	.0	.0	1.4	.6	.0	2.1	
13-16	.0	.0	.0	2.2	2.2	.0	4.4	
17-19	.0	.0	.0	.0	.6	.3	.9	
20-22	.0	.0	.0	.0	.5	.3	.8	
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	2.7	23.6	42.7	22.9	7.0	1.1	100.0	632

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	.8	4.3	11.4	7.5	3.7	1.3	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	460	4
6-7	.0	.5	5.8	7.3	8.5	4.9	3.1	1.6	1.5	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	523	7
8-9	.0	.1	1.2	1.9	3.0	2.9	2.1	1.5	2.1	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	239	9
10-11	.0	.1	.3	.5	.8	1.0	.8	.7	1.3	.4	.3	.1	.1	.0	.0	.0	.0	.0	.0	99	11
12-13	.0	.0	.1	.1	.2	.1	.3	.4	.3	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	28	11
>13	.0	.0	.0	.0	.2	.1	.0	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	10	16
INDET	2.2	1.8	2.4	2.2	1.6	1.1	.6	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	193	4
TOTAL	46	105	329	304	279	177	112	71	88	13	18	4	6	0	0	0	0	0	0	1552	6
PCT	3.0	6.8	21.2	19.6	18.0	11.4	7.2	4.6	5.7	.8	1.2	.3	.4	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1873-1970

AREA 0005 PLACENTIA BAY SOUTH
45.0N 54.2W

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	.7	.8	.0	9.7	.2	.3	14.5	4.0	.0	2.0	.0	.6	.4		78.6
NE	4.1	.6	4.8	.0	10.8	.9	1.3	21.2	3.4	.0	6.1	.0	.1	.0		69.2
E	18.2	1.7	4.5	.0	13.2	.0	2.1	37.2	3.1	.0	7.8	.0	.7	.0		51.2
SE	14.4	2.1	5.8	.5	5.2	.0	.0	27.9	6.8	.0	13.5	.0	.8	.5		50.5
S	15.8	1.3	6.5	.0	2.7	.0	.0	25.0	3.4	.0	12.3	.8	1.6	.0		56.8
SW	6.0	2.0	3.4	.0	6.6	.0	.2	17.3	3.8	.2	9.0	1.0	.7	.0		68.3
W	1.3	1.9	.2	.0	16.4	.0	.4	18.5	7.4	.1	2.0	.0	.1	.0		72.1
NW	3.1	.3	.9	.0	13.5	.0	1.2	18.7	5.2	.0	1.3	.3	.0	.0		74.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	4.8	.0	.0	.0	4.8	.0	.0	9.5	.0	.0	.0	.0	.0	.0		90.5
TOT PCT	6.2	1.4	2.5	*	10.8	.1	.6	20.6	5.1	*	5.5	.3	.5	.1		68.1
TOT OBS:	2295															

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	8.8	1.1	2.0	.0	10.6	.0	.8	22.4	3.6	.2	5.1	.0	.8	.2		67.9
06&09	6.6	1.2	2.3	.2	9.9	.0	.6	20.0	4.7	.0	5.0	.2	.0	.2		69.9
12&15	3.7	1.6	2.8	.0	10.8	.4	.4	18.6	5.8	.0	6.4	.5	.5	.2		68.0
18&21	5.7	1.4	3.0	.0	11.3	.0	.6	20.9	6.1	.0	5.3	.3	.5	.0		67.0
TOT PCT	6.3	1.3	2.5	*	10.7	.1	.6	20.5	5.0	*	5.4	.3	.5	.1		68.1
TOT OBS:	2319															

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	2.9	4.8	2.8	.7	.1		11.6	17.8	11.1	11.3	12.7	7.8	12.5	14.7	10.6	11.4
NE	.1	2.0	2.6	2.0	.4	.1		7.2	17.9	7.0	8.1	5.3	8.5	7.9	4.6	8.6	6.3
E	.1	1.2	3.1	1.5	.4	.0		6.3	18.1	5.5	4.7	7.1	6.9	5.7	5.9	6.1	10.8
SE	.2	2.0	3.4	1.9	.6	.1		8.3	17.8	9.4	8.8	8.3	9.5	8.7	7.7	6.7	6.3
S	.2	2.4	4.1	2.1	.5	*		9.4	17.3	9.6	8.7	10.1	6.6	9.4	10.3	9.7	9.2
SW	.2	3.1	6.1	3.5	1.1	.2		14.2	18.7	14.6	16.6	12.8	14.9	13.7	16.5	13.2	14.3
W	.3	3.5	9.1	8.9	3.9	.4		25.9	22.4	26.7	25.7	26.5	26.2	25.3	22.8	27.2	23.6
NW	.3	2.5	7.0	4.8	1.5	.1		16.3	19.9	15.3	15.6	15.0	18.5	16.3	17.0	16.9	17.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9							.9	.0	.7	.5	2.2	1.1	.5	.5	.9	.5
TOT OBS	75	568	1172	796	269	25	2905		19.3	569	215	445	189	564	191	536	196
TOT PCT	2.6	19.6	40.3	27.4	9.3	.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	1.3	4.6	3.7	1.8	.2		11.6	17.8	11.1	11.2	13.0	10.8
NE	.7	2.8	2.4	1.2	.1		7.2	17.9	7.3	6.2	7.1	8.0
E	.5	2.6	2.2	.9	.1		6.3	18.1	5.3	7.0	5.7	7.3
SE	.9	3.7	2.2	1.3	.2		8.3	17.8	9.3	8.7	8.4	6.6
S	1.0	3.8	3.3	1.2	.2		9.4	17.3	9.4	9.0	9.7	9.6
SW	1.1	5.7	4.8	2.0	.5		14.2	18.7	15.1	13.4	14.4	13.5
W	1.2	7.0	9.7	6.7	1.4		25.9	22.4	26.4	26.4	24.7	26.3
NW	1.1	4.9	6.8	3.1	.4		16.3	19.9	15.4	18.0	18.5	17.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.9						.9	.0	.6	1.9	.5	.8
TOT OBS	253	1016	1020	527	89	2905		19.3	784	834	755	732
TOT PCT	8.7	35.0	35.1	18.1	3.1		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1873-1970

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.2W

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	.6	1.5	20.0	40.7	29.6	7.1	.4	19.0	100.0	784
06&09	1.9	1.4	19.9	43.1	25.2	7.9	.8	18.6	100.0	634
12&15	.9	2.4	20.3	38.8	26.5	10.5	1.1	19.4	100.0	755
18&21	.8	1.2	18.0	39.2	27.9	11.5	1.4	20.2	100.0	732
TOT	27	48	568	1172	796	269	25	19.3		2905
PCT	.9	1.7	19.6	40.3	27.4	9.3	.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	1.4	1.2	3.3	6.3		6.3
NE	.6	.3	1.1	5.6		7.0
E	.3	.3	.8	5.0		7.2
SE	.4	.2	1.0	6.5		7.3
S	.8	.2	1.6	6.5		6.9
SW	1.9	1.7	3.2	7.2		6.0
W	2.1	2.9	10.3	11.3		6.3
NW	1.3	1.4	5.7	6.6		6.3
VAR	.0	.0	.0	.0		.0
CALM	.2	.1	.3	.4		5.6
TOT OBS	166	193	502	1021	1842	6.5
TOT PCT	9.0	8.3	27.3	55.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT;NM >4/8) AND OCCURRENCE OF NM <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+	NM <5/8 ANY HGT	TOTAL OBS
N	.4	.0	.1	1.0	3.6	2.7	.6	.1	.1	*	3.4	
NE	.7	.0	.2	1.5	2.3	1.5	.2	.0	.1	.0	1.2	
E	.7	*	.2	.8	1.7	1.1	.3	.1	.1	*	1.3	
SE	.9	.2	.6	1.2	1.9	1.5	.5	.1	.1	*	1.3	
S	1.0	.2	.7	1.1	1.9	1.9	.6	.2	.1	.1	1.7	
SW	.8	.1	.4	1.6	3.3	2.1	.5	.1	.0	.4	4.8	
W	.5	.1	.4	4.2	8.8	4.5	.7	.1	.1	.1	7.0	
NW	.2	.1	.6	2.2	4.2	3.2	.5	.4	.1	*	3.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.1	.0	.2	.3	.1	.0	.0	.1	.3	
TOT OBS	97	19	37	253	514	341	69	21	9	15	454	1842
TOT PCT	5.3	.7	3.1	13.7	27.9	18.5	3.7	1.1	.5	.8	24.6	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >900YD	* OR >0
* OR >6500	.8	1.2	1.3	1.3	1.3	1.3	1.3	1.3
* OR >5000	1.2	2.2	2.4	2.4	2.4	2.4	2.4	2.4
* OR >3500	3.3	5.5	6.0	6.1	6.1	6.2	6.2	6.2
* OR >2000	13.5	22.8	24.4	24.7	24.8	24.9	25.0	25.0
* OR >1000	27.9	46.9	51.3	52.0	52.3	52.6	52.7	52.7
* OR >600	34.6	57.4	63.8	65.5	66.0	66.4	66.5	66.5
* OR >300	35.4	58.9	65.9	68.0	68.7	69.2	69.5	69.5
* OR >150	35.5	59.2	66.4	68.6	69.2	69.8	70.0	70.0
* OR > 0	39.8	60.0	67.7	70.5	71.9	73.1	74.7	75.4
TOTAL	659	1105	1247	1299	1325	1347	1377	1389

TOTAL NUMBER OF OBS: 1843 PCT FREQ NM <5/8: 24.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.6	2.6	6.3	4.8	4.8	5.6	9.8	11.8	44.2	4.6	1974

DECEMBER

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1873-1970

AREA 0009 PLACENTIA BAY SOUTH
45.9N 54.2W

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	.2	.3	.3	.2	.3	.2	.1	.1	.0	*	1.8	
	NO PCP	*	.2	.4	.6	.6	.9	.2	*	.0	.0	2.4	
	TOT %	.2	.4	.7	.8	.9	.8	.2	.1	.0	*	4.0	
1/2<1	PCP	*	.1	.2	.3	.1	.2	.2	*	.0	.0	1.1	
	NO PCP	*	.2	.1	.2	.2	.4	.2	.1	.0	.0	1.9	
	TOT %	.1	.4	.3	.5	.3	.6	.3	.1	.0	.0	2.9	
1<2	PCP	.2	.1	.3	.3	.2	.2	.2	.2	.0	.0	1.7	
	NO PCP	.1	.0	*	.4	.3	.5	.2	.1	.0	.0	1.5	
	TOT %	.3	.1	.3	.7	.5	.6	.4	.3	.0	.0	3.2	
2<9	PCP	.4	.5	.5	.8	.7	.6	.6	.6	.0	.0	4.9	
	NO PCP	.3	.6	.2	.6	.6	.6	.6	.4	.0	.0	3.6	
	TOT %	.7	.9	.6	1.4	1.3	1.1	1.3	.9	.0	.0	8.5	
9<10	PCP	.6	.6	.8	.7	1.0	1.0	2.2	1.5	.0	*	8.4	
	NO PCP	3.2	1.6	1.3	2.0	2.9	3.4	6.0	4.0	.0	.3	25.0	
	TOT %	3.8	2.2	2.1	2.7	3.9	4.4	8.2	5.4	.0	.3	33.4	
10+	PCP	.3	.1	.3	.1	.2	.4	1.3	.6	.0	.0	3.3	
	NO PCP	6.8	3.4	1.9	2.2	2.7	6.0	13.8	7.7	.0	.8	45.0	
	TOT %	7.0	3.5	2.2	2.4	2.9	6.4	15.0	8.3	.0	.8	48.3	
	TOT OBS												2308
	TOT PCT	12.2	7.8	6.3	8.4	9.7	14.1	29.7	19.2	.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	*	*	
	4-10	.0	.1	*	.4	.2	.1	.1	.0	.0		.9	
	11-21	.1	.1	.3	.2	.5	.4	.1	*	.0		1.8	
	22+	.1	.2	.2	.1	.2	.1	.1	*	.0		1.2	
	TOT %	.2	.4	.6	.7	1.0	.6	.3	.1	.0	*	3.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	4-10	.0	.1	*	.1	.1	.1	.0	.0	.0		.4	
	11-21	*	.1	.1	.2	.1	.2	.1	.1	.0		.9	
	22+	.1	.2	.1	.2	*	.2	.2	*	.0		1.0	
	TOT %	.1	.3	.2	.4	.2	.5	.4	.1	.0	.0	2.3	
1<2	0-3	.0	.0	.0	.1	.0	*	.0	.0	.0	.0	.1	
	4-10	*	.1	.0	.1	*	.1	*	.1	.0		.5	
	11-21	.1	.1	.3	.3	.2	.2	.1	.1	.0		1.3	
	22+	.2	.0	.1	.1	.2	.2	.3	.2	.0		1.5	
	TOT %	.3	.1	.4	.6	.4	.8	.4	.4	.0	.0	3.3	
2<9	0-3	.0	.0	*	.0	*	*	.0	.0	.0	.0	.1	
	4-10	.2	.1	.1	.2	.1	.2	.2	.2	.0		1.3	
	11-21	.3	.4	.4	.5	.5	.5	.4	.5	.0		3.4	
	22+	.2	.4	.2	.7	.8	.5	1.0	.9	.0		3.9	
	TOT %	.6	.9	.8	1.4	1.2	1.2	1.7	1.0	.0	.0	8.8	
9<10	0-3	*	.1	*	.1	.1	.1	*	.1	.0	.3	.8	
	4-10	.9	.4	.5	.9	.8	.9	.8	.7	.0		5.1	
	11-21	1.2	.5	.7	1.0	1.7	2.0	2.4	2.2	.0		11.8	
	22+	1.6	1.0	.8	1.1	1.2	1.6	4.6	2.3	.0		14.2	
	TOT %	3.7	2.0	2.0	2.5	3.7	4.5	7.9	5.3	.0	.3	31.9	
10+	0-3	.2	.1	.1	.0	*	.1	.2	.1	.0	.5	1.3	
	4-10	2.0	1.3	.6	.8	1.3	1.9	2.2	1.9	.0		11.5	
	11-21	3.4	1.3	1.3	1.1	1.2	2.9	8.3	4.2	.0		23.6	
	22+	1.7	.8	.3	.3	.5	2.1	6.9	2.9	.0		19.5	
	TOT %	7.2	3.4	2.2	2.3	3.0	6.9	15.5	8.7	.0	.5	49.9	
	TOT OBS												2627
	TOT PCT	12.1	7.2	6.3	8.0	9.5	14.3	28.2	19.6	.0	.9	100.0	

DECEMBER

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1879-1970

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NM >4/8) AND OCCURRENCE OF NM <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	NM <5/8 ANY HGT	TOTAL OBS
00E03	5.1	.4	3.0	11.2	29.9	17.2	3.8	1.7	.4	.6	73.3	26.7	472
06E09	8.0	1.0	2.5	12.9	24.1	20.1	2.0	.5	.0	1.5	70.8	29.4	402
12E15	4.2	1.3	3.1	14.3	29.7	19.4	4.0	.4	.4	.4	77.3	22.7	454
18E21	5.7	.0	3.5	15.5	26.2	17.7	4.6	1.7	.9	.7	76.4	23.6	543
TOT	98	12	57	254	515	346	69	21	9	15	1396	475	1871
PCT	5.2	.6	3.0	13.6	27.5	18.5	3.7	1.1	.5	.8	74.6	25.4	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
00E03	3.1	1.4	2.7	9.5	35.0	48.2	705
06E09	4.2	2.2	2.9	6.9	33.7	50.5	994
12E15	3.0	2.9	4.4	7.8	28.3	51.6	657
18E21	3.3	2.7	3.4	10.5	30.9	49.1	896
TOT	103	61	87	232	848	1321	2652
PCT	3.9	2.3	3.3	8.7	32.0	49.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00E03	5.2	9.3	26.8	47.8	25.3	462
06E09	6.1	10.7	29.2	43.7	27.2	394
12E15	4.2	10.0	29.3	48.9	21.8	450
18E21	5.8	10.2	31.1	46.7	22.2	537
TOT	98	185	538	866	441	1843
PCT	5.3	10.0	29.2	46.9	23.9	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
55/59	.0	.0	.0	.0	.0	.1	.1	.0	2	.1
50/54	.0	.1	.0	.0	.1	.1	.4	.8	24	1.5
45/49	.0	.0	.0	.1	.2	.6	2.0	4.4	117	7.2
40/44	.0	.0	.0	.2	1.1	2.4	6.2	10.3	326	20.2
35/39	.0	.0	.0	1.1	3.0	8.4	11.6	12.8	583	36.9
30/34	.0	.0	.0	.4	3.2	5.0	9.8	8.4	435	26.9
25/29	.0	.0	.0	.3	.8	1.8	1.7	3.0	121	7.5
20/24	.0	.0	.1	.0	.1	.4	.2	.7	23	1.4
15/19	.0	.0	.0	.0	.0	.0	.1	.1	3	.2
10/14	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	1	1	34	134	288	520	657	1615	100.0
PCT	.0	.1	.1	2.1	8.3	16.6	32.2	40.7		

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
	.1	.0	.3	.2	.5	.2	.2	.1	.0	.0
	.2	.2	.5	1.4	1.7	2.2	.7	.3	.0	.1
	1.2	1.5	1.2	2.6	3.8	4.2	4.0	1.4	.0	.2
	4.0	2.9	2.4	2.7	2.7	5.1	9.1	5.5	.0	.4
	4.5	2.9	1.9	.9	.6	2.8	8.7	4.5	.0	.2
	1.4	.4	*	*	*	.4	2.8	2.4	.0	.0
	.5	.0	.0	.0	.0	*	.5	.5	.0	.0
	*	.0	.0	.0	.0	.0	.1	.1	.0	.0
	*	.0	.0	.0	.0	.0	.0	*	.0	.0
	11.9	8.0	6.3	7.8	9.5	14.8	26.1	14.6	.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
00E03	58	50	46	36	26	22	14	36.2	771
06E09	53	51	46	36	28	24	22	36.5	624
12E15	56	51	47	36	27	22	20	36.4	745
18E21	58	52	47	37	26	23	18	36.8	729
TOT	58	51	46	36	27	23	14	36.5	2869

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
00E03	.0	.9	7.0	13.8	33.3	45.0	87	429
06E09	.0	3.6	7.0	17.0	30.7	41.8	85	388
12E15	.0	3.1	9.2	18.9	32.3	36.5	84	381
18E21	.0	1.4	10.0	17.3	32.2	39.0	85	428
TOT	0	36	135	271	523	661	85	1626

DECEMBER

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1873-1970

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.2W

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	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	2	.1	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.1	.1	.2	.0	7	.1	.3
9/10	.0	.0	.0	.0	.0	.0	.0	.4	.4	.4	.1	24	.5	.8
7/8	.0	.0	.0	.0	.0	.0	.2	.6	.8	.5	.1	42	.3	1.9
6	.0	.0	.0	.0	.0	.0	.0	.5	.6	.2	.1	25	.4	.9
5	.0	.0	.0	.0	.0	.1	.3	1.2	.9	.2	.0	54	.6	2.2
4	.0	.0	.0	.0	.0	.0	.8	1.5	.6	.1	.0	57	.5	2.4
3	.0	.0	.0	.0	.1	.3	1.7	1.9	.7	.1	.1	96	.9	4.0
2	.0	.0	.0	.0	.0	.8	1.8	1.4	.7	.2	.0	97	.5	4.5
1	.0	.0	.0	.0	.1	1.0	3.0	2.0	.5	.0	.0	129	.2	6.4
0	.0	.0	.0	.1	.1	2.1	3.6	1.7	.4	.0	.0	157	.3	7.7
-1	.0	.0	.0	.0	.3	2.8	2.8	1.7	.4	.1	.0	157	.4	7.6
-2	.0	.0	.0	.2	.6	2.9	2.4	.9	.4	.0	.0	143	.3	7.0
-3	.0	.0	.1	.1	1.0	2.5	2.0	.6	.1	.1	.1	127	.1	6.4
-4	.0	.0	.1	.3	1.5	3.5	1.9	.5	.1	.0	.0	153	.3	7.5
-5	.0	.0	.0	.5	2.0	2.9	1.7	.1	.0	.0	.0	141	.3	6.9
-6	.0	.0	.0	.6	2.1	2.6	.9	.2	.1	.0	.0	127	.1	6.4
-7/-8	.0	.0	.1	1.3	3.9	2.3	.8	.2	.0	.0	.0	168	.0	8.5
-9/-10	.0	.1	.3	1.7	2.3	1.5	.6	.0	.0	.0	.0	128	.2	6.4
-11/-13	.1	.1	.4	1.3	1.8	1.0	.3	.0	.0	.0	.0	96	.1	4.8
-14/-16	.0	.1	.3	.6	.2	.3	.0	.0	.0	.0	.0	27	.0	1.4
-17/-19	.0	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	8	.0	.4
-20/-22	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1		25		312		490		130		7		111	1855
		8		130		526		300		37		1966		
PCT	.1	.4	1.3	6.6	15.9	26.8	24.9	15.3	6.6	1.9	.4	100.0	5.6	94.4

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	.2	.2	.0	.0	.0	.3
1-2	.1	2.0	.9	.0	.0	.0	3.0
3-4	.0	.8	1.3	.3	.0	.0	2.4
5-6	.0	.2	1.8	.2	.0	.0	2.2
7	.0	.0	.8	.9	.4	.0	2.2
8-9	.0	.0	.3	.9	.2	.0	1.4
10-11	.0	.0	.1	.2	.1	.1	.5
12	.0	.0	.0	.2	.1	.0	.3
13-16	.0	.0	.0	.3	.3	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.2	.0	.2
23-25	.0	.0	.0	.0	.1	.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	.1	3.3	5.4	3.0	1.4	.1	13.2

NE

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	.4	.0	.0	.0	1.9
3-4	.0	.8	.8	.3	.0	.0	2.0
5-6	.0	.1	.6	.9	.0	.0	1.5
7	.0	.0	.2	*	.2	.0	.4
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.3	1.0	*	.0	1.3
12	.0	.0	.2	.2	*	.0	.3
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	*
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	2.5	2.8	.5	.0	8.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.0	.0	.0	.0	.7
1-2	.0	.8	.8	.0	.0	.0	1.6
3-4	.0	.0	.3	.4	.0	.0	.7
5-6	.0	.3	.7	.5	.0	.0	1.5
7	.0	.2	.2	.4	.1	.0	.8
8-9	.0	.0	.1	.4	.0	.0	.5
10-11	.0	.0	.0	.1	.1	.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	.3	1.7	2.1	1.9	.2	.0	6.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.0	.0	.0	.0	1.0
1-2	.0	.5	.7	.0	.0	.0	1.3
3-4	.0	.6	1.0	.2	.0	.0	1.8
5-6	.0	.2	.8	.5	.2	.0	1.7
7	.0	.0	.0	.5	.0	.0	.5
8-9	.0	.0	*	*	*	0	.1
10-11	.0	.0	.0	.2	*	.0	.2
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.5	1.0	.0	1.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.2	*	.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	2.2	2.6	2.0	1.4	*	8.4

PERIOD: (OVER-ALL) 1963-1970

DECEMBER

TABLE 18 (CONT)

AREA 0009 PLACENTIA BAY SOUTH
45.9N 54.2W

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	1.1	.0	.0	.0	.0	1.1
1-2	.0	.8	.4	.0	.0	.0	1.2
3-4	.0	.3	1.7	.1	.0	.0	2.1
5-6	.0	.0	2.1	.5	.0	.0	2.7
7	.0	.0	.6	.3	.2	.0	1.0
8-9	.0	.2	.2	.7	.1	.0	1.1
10-11	.0	.0	.0	.3	.2	.0	.5
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.2	.6	.0	.7
17-19	.0	.0	.0	.0	.3	.0	.3
20-22	.0	.0	.0	.0	.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	.0	2.4	4.9	2.3	1.3	.1	11.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4
1-2	.2	1.3	.4	.0	.0	.0	1.9
3-4	.0	1.0	1.5	*	.0	.0	2.5
5-6	.0	*	1.5	.5	*	.0	2.1
7	.0	.2	1.0	1.0	.3	.0	2.5
8-9	.0	.0	.3	.7	.2	.0	1.2
10-11	.0	.0	.0	.4	.5	.0	.9
12	.0	.0	.2	.2	.2	.0	.5
13-16	.0	.0	.0	.3	.4	.2	.9
17-19	.0	.0	*	*	.0	.0	.1
20-22	.0	.0	.0	.0	.1	*	.1
23-25	.0	.0	.0	.0	.2	.0	.2
26-32	.0	.0	.0	.2	.1	.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
TOT PCT	.3	2.7	4.9	3.5	1.9	.3	13.7

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	.7	.5	.0	.0	.0	1.3
3-4	.0	.8	2.2	.1	.0	.0	3.2
5-6	.0	.3	3.0	1.4	.4	.0	5.0
7	.0	.2	2.4	1.3	.5	.0	4.4
8-9	.0	.0	1.1	1.5	.4	.0	3.1
10-11	.0	.0	.6	1.3	.9	.0	2.8
12	.0	.0	.2	.7	.6	.0	1.5
13-16	.0	.0	.5	.9	1.1	.2	2.6
17-19	.0	.0	.1	.1	.3	.0	.5
20-22	.0	.0	.0	.0	.5	.1	.6
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	.0	2.1	10.6	7.3	5.0	.3	25.2

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	*	1.4	.2	.0	.0	.0	1.7	
3-4	.0	.7	.7	.2	.0	.0	1.6	
5-6	.0	.5	2.0	1.1	.0	.0	3.5	
7	.0	*	1.8	1.2	.2	.0	3.2	
8-9	.0	.0	.2	.5	.0	.0	.7	
10-11	.0	.0	.1	.2	.1	*	.4	
12	.0	.0	.0	.1	.2	.0	.2	
13-16	.0	.0	.0	.2	.2	.0	.3	
17-19	.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	*	2.7	4.9	3.6	.7	*	11.9	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	2.5	3.1	.2	.0	.0	.0	5.7	
1-2	.3	9.2	4.3	.0	.0	.0	13.8	
3-4	.3	5.1	9.5	1.7	.0	.0	16.6	
5-6	.0	1.5	12.5	5.7	.6	.0	20.3	
7	.0	.6	6.9	5.7	1.8	.0	15.1	
8-9	.0	.2	2.2	5.2	.9	.0	8.5	
10-11	.0	.0	1.1	4.7	2.0	.2	6.9	
12	.0	.0	.5	1.5	1.1	.0	3.1	
13-16	.0	.0	.5	3.3	3.7	.3	6.8	
17-19	.0	.0	.2	.2	.6	.0	.9	
20-22	.0	.0	.0	.2	.9	.3	1.4	
23-25	.0	.0	.0	.0	.3	.0	.3	
26-32	.0	.0	.0	.2	.3	.2	.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	3.1	19.7	37.7	26.3	12.3	.9	100.0	650

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	.8	3.4	8.9	6.7	3.8	.5	.7	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	373	4
6-7	.1	.2	3.1	6.6	6.6	5.1	3.8	2.0	1.6	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	443	8
8-9	.0	.1	1.1	2.2	3.9	4.8	3.3	2.6	3.0	.8	.1	.2	.1	.0	.0	.0	.0	.0	.0	328	9
10-11	.0	.0	.1	.6	1.0	1.3	.8	1.3	1.0	.3	.1	.1	.2	.1	.0	.0	.0	.0	.0	104	11
12-13	.0	.0	.3	.1	.1	.2	.3	.0	.3	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	28	12
>13	.0	.0	.0	.0	.1	.1	.4	.1	.1	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	16	15
INDET	1.3	2.2	2.8	1.4	1.9	1.3	.5	.4	.9	.2	.1	.1	.2	.0	.0	.0	.0	.0	.0	198	6
TOTAL	33	87	241	263	259	197	146	96	104	28	13	7	15	1	0	0	0	0	0	1490	7
PCT	2.2	5.8	16.2	17.7	17.4	13.2	9.8	6.4	7.0	1.9	.9	.5	1.0	.1	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1930-1971
(OVER-ALL) 1869-1971

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.3W

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	3.6	1.2	2.4	.1	4.4	.2	*	11.4	1.9	.0	8.4	.3	.5	.1		77.4
NE	8.2	1.1	4.0	*	5.1	.4	.1	18.2	3.3	.1	13.0	.7	.6	.1		64.0
E	13.5	1.4	6.0	.2	4.9	.2	.3	25.1	2.4	.0	19.2	.6	.7	*		52.0
SE	13.1	2.0	5.0	.4	3.4	.1	.1	22.9	2.8	.2	26.7	.9	1.1	.1		45.4
S	11.7	1.7	4.1	*	2.9	.1	.0	19.7	2.5	.2	28.2	.8	1.5	.0		47.1
SW	5.0	1.2	2.4	.1	4.2	.1	.1	12.8	2.5	.1	22.7	.7	1.3	.1		59.7
W	1.9	.9	.9	.1	6.8	.1	.2	10.4	3.4	.1	11.3	.6	1.0	.1		73.2
NW	1.8	1.0	1.2	.1	5.9	*	.2	9.9	2.7	.1	7.6	.5	.5	*		78.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	1.7	.7	1.6	.0	2.3	.0	.0	6.1	1.0	.3	28.6	1.2	1.6	.0		61.3
TOT PCT	5.9	1.2	2.6	.1	5.1	.1	.1	14.5	2.8	.1	17.9	.7	1.0	.1		62.9
TOT OBS:	27616															

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	6.6	1.4	2.7	.1	4.9	.1	.1	15.4	2.3	.2	17.4	.6	.9	*		63.3
06&09	6.5	1.3	2.9	.1	5.5	.1	.1	15.9	3.0	.2	16.1	.6	.7	.1		63.4
12&15	4.9	1.0	2.4	.1	4.9	.2	.1	13.2	2.8	*	19.6	.8	1.4	*		62.1
18&21	5.3	1.1	2.3	*	4.8	.2	.1	13.4	3.2	.1	18.8	.7	1.0	.1		62.8
TOT PCT	5.8	1.2	2.6	.1	5.0	.1	.1	14.5	2.8	.1	18.0	.7	1.0	.1		62.9
TOT OBS:	27993															

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	2.5	4.0	1.6	.4	*		8.8	15.2	8.2	8.8	9.8	9.8	9.9	8.6	7.8	7.2
NE	.2	2.2	3.1	1.6	.3	*		7.4	15.6	7.9	7.2	7.0	7.9	7.7	7.3	7.1	6.6
E	.3	2.4	3.7	1.5	.3	*		7.8	15.5	7.8	7.2	7.8	8.0	7.9	7.0	8.1	8.3
SE	.3	2.8	3.4	1.4	.3	*		8.2	15.3	8.2	8.7	7.6	8.4	8.3	9.3	8.3	8.2
S	.5	4.5	5.3	1.9	.4	*		12.6	15.1	12.0	12.6	12.5	11.9	12.5	12.6	13.4	13.5
SW	.6	6.1	8.3	2.5	.5	.1		18.1	15.6	18.3	18.3	17.6	17.6	17.5	19.4	17.5	20.1
W	.6	5.5	9.0	5.9	1.7	.2		22.4	17.6	23.2	22.7	21.9	21.4	20.9	21.5	24.1	22.7
NW	.3	3.2	5.4	3.1	.8	.1		12.8	16.4	12.6	13.1	13.0	14.0	13.2	12.9	11.9	12.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	1.8	1.4	2.8	1.0	2.1	1.3	1.8	1.2
TOT OBS							33079		15.9	6738	2744	5267	2138	6212	2275	5321	2384
TOT PCT	5.0	29.0	41.6	19.1	4.6	.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	1.2	3.8	2.9	.8	.1		8.8	15.2	8.4	9.8	9.5	7.7
NE	1.1	3.2	2.3	.8	.1		7.4	15.6	7.7	7.3	7.6	7.0
E	1.2	3.4	2.3	.8	.1		7.8	15.5	7.7	7.9	7.7	8.1
SE	1.3	3.8	2.3	.7	.1		8.2	15.3	8.4	7.8	8.6	8.3
S	2.1	6.2	3.3	.9	.1		12.6	15.1	12.2	12.3	12.5	13.4
SW	2.6	9.2	5.0	1.2	.2		18.1	15.6	18.3	17.6	18.0	18.3
W	2.4	8.9	7.1	3.4	.6		22.4	17.6	23.1	21.8	21.1	23.6
NW	1.3	5.1	4.5	1.7	.2		12.8	16.4	12.7	13.3	13.1	12.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	1.7	2.3	1.9	1.6
TOT OBS						33079		15.9	9482	7405	8487	7705
TOT PCT	15.0	43.5	29.5	10.4	1.6		100.0		100.0	100.0	100.0	100.0

ANNUAL

PERIOD: (PRIMARY) 1930-1971
(OVER-ALL) 1869-1971

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.3W

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	1.7	3.4	29.1	42.3	19.3	3.8	.5	15.6	100.0	9482
06&09	2.3	2.9	29.2	42.2	18.5	4.4	.4	15.6	100.0	7405
12&15	1.9	3.6	30.0	40.2	18.9	4.9	.5	15.8	100.0	8487
18&21	1.6	2.8	27.8	42.0	19.6	5.5	.7	16.5	100.0	7705
TOT								15.9		33079
PCT	1.8	3.7	29.0	41.6	19.1	4.6	.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	1.6	.8	2.2	4.4		5.8
NE	.9	.4	1.4	4.8		6.6
E	.6	.3	1.1	6.0		7.0
SE	.6	.4	1.1	5.9		7.0
S	1.4	.6	2.0	8.4		6.6
SW	3.7	1.3	3.4	9.4		5.9
W	5.7	2.6	6.2	8.6		5.1
NW	2.9	1.4	3.6	4.4		5.1
VAR	.0	.0	.0	.0		.0
CALM	.5	.1	.3	.8		5.4
TOT OBS					21659	5.9
TOT PCT	18.0	8.0	21.2	52.8	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	.5	*	.2	.8	2.1	1.6	.3	.1	.1	.1	3.1	
NE	.8	*	.3	.9	1.7	1.2	.3	*	.1	.1	1.9	
E	1.5	.1	.4	.9	1.9	1.0	.3	.1	.1	.2	1.6	
SE	1.9	.1	.3	.9	1.5	.9	.3	.1	.1	.2	1.7	
S	3.6	.1	.4	1.0	1.8	1.2	.4	.1	.2	.3	3.2	
SW	3.9	.1	.4	1.1	2.5	1.6	.4	.2	.2	.4	6.9	
W	1.7	.1	.4	1.8	4.3	3.1	.7	.2	.2	.4	10.3	
NW	.5	*	.2	1.0	2.4	2.1	.4	.2	.1	.1	5.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	*	*	.1	.2	.2	*	*	*	.1	.8	
TOT OBS												21659
TOT PCT	14.9	.6	2.7	8.6	18.5	13.0	3.1	1.0	1.0	1.9	34.8	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	1.6	2.6	2.7	2.7	2.8	2.8	2.8	2.8
* OR >5000	2.1	3.5	3.7	3.7	3.8	3.8	3.8	3.8
* OR >3500	3.8	6.4	6.7	6.8	6.9	6.9	7.0	7.0
* OR >2000	10.2	18.2	19.4	19.6	19.8	19.9	19.9	20.0
* OR >1000	18.2	33.2	36.8	37.7	38.0	38.3	38.4	38.5
* OR >600	21.5	39.2	44.5	45.8	46.4	46.7	47.0	47.0
* OR >300	22.1	40.5	46.4	48.1	48.9	49.4	49.7	49.7
* OR >150	22.1	40.7	46.8	48.5	49.4	49.9	50.2	50.3
* OR > 0	22.2	41.1	47.7	50.3	52.5	55.4	63.2	65.1

TOTAL NUMBER OF OBS: 21708

PCT FREQ NH <5/8: 34.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
13.3	5.8	7.0	4.5	3.6	4.2	7.2	7.5	33.1	13.7	22957

ANNUAL

PERIOD: (PRIMARY) 1930-1971
(OVER-ALL) 1869-1971

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.3W

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	.1	.2	.2	.2	.4	.5	.2	.1	.0	*	1.8	
<1/2	NO PCP	.3	.5	1.0	1.6	3.0	3.5	1.4	.3	.0	.4	11.9	
	TOT %	.4	.6	1.2	1.8	3.4	3.8	1.5	.4	.0	.4	13.7	
	PCP	.1	.1	.2	.2	.2	.2	.1	*	.0	*	1.1	
1/2<1	NO PCP	.1	.2	.2	.3	.4	.5	.3	.1	.0	*	2.1	
	TOT %	.2	.3	.4	.4	.5	.7	.4	.2	.0	*	3.1	
	PCP	.1	.1	.3	.2	.3	.2	.2	.1	.0	*	1.5	
1<2	NO PCP	.1	.1	.2	.2	.3	.4	.2	*	.0	*	1.5	
	TOT %	.2	.3	.4	.4	.5	.6	.4	.1	.0	*	3.0	
	PCP	.2	.4	.6	.6	.6	.4	.5	.2	.0	*	3.5	
2<5	NO PCP	.2	.4	.4	.5	.7	1.0	.9	.3	.0	.1	4.4	
	TOT %	.5	.7	1.0	1.1	1.3	1.4	1.3	.5	.0	.1	7.8	
	PCP	.4	.5	.6	.6	.7	.7	1.2	.7	.0	*	5.5	
5<10	NO PCP	2.3	1.9	1.8	1.8	2.9	4.8	5.9	3.1	.0	.3	24.6	
	TOT %	2.7	2.4	2.5	2.4	3.7	5.5	7.1	3.9	.0	.4	30.1	
	PCP	.1	.1	.1	.1	.1	.1	.4	.2	.0	*	1.3	
10+	NO PCP	4.9	3.1	2.4	2.1	3.1	6.2	11.4	7.0	.0	.8	40.9	
	TOT %	5.0	3.2	2.5	2.2	3.2	6.8	11.8	7.2	.0	.8	42.2	
	TOT OBS												27563
	TOT PCT	8.9	7.6	8.0	8.3	12.7	18.0	22.5	12.3	.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
	0-3	.1	*	.1	.1	.1	.1	.1	*	.0	.4	1.1	
<1/2	4-10	.1	.3	.4	.7	1.2	1.5	.7	.2	.0		5.2	
	11-21	.1	.2	.5	.8	1.5	1.8	.7	.1	.0		5.7	
	22+	*	.1	.2	.2	.5	.4	.1	*	.0		1.6	
	TOT %	.4	.6	1.2	1.8	3.4	3.8	1.6	.4	.0	.4	13.6	
	0-3	*	*	*	*	*	*	*	*	.0	*	.2	
1/2<1	4-10	*	.1	.1	.1	.2	.2	.1	.1	.0		.9	
	11-21	.1	.1	.1	.2	.2	.3	.1	.1	.0		1.2	
	22+	*	.1	.1	.1	.1	.1	.1	*	.0		.8	
	TOT %	.2	.3	.4	.4	.5	.6	.4	.2	.0	*	3.0	
	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
1<2	4-10	*	.1	.1	.1	.1	.2	.1	*	.0		.7	
	11-21	.1	.1	.2	.2	.2	.3	.1	.1	.0		1.3	
	22+	.1	.1	.1	.1	.2	.1	.2	.1	.0		1.0	
	TOT %	.2	.3	.4	.4	.5	.6	.4	.2	.0	*	3.0	
	0-3	*	*	*	*	*	*	*	*	.0	.1	.3	
2<5	4-10	.1	.1	.2	.2	.3	.3	.3	.1	.0		1.6	
	11-21	.2	.3	.4	.4	.5	.7	.5	.2	.0		3.2	
	22+	.1	.3	.4	.4	.5	.3	.6	.2	.0		2.8	
	TOT %	.5	.7	1.0	1.0	1.3	1.4	1.4	.5	.0	.1	7.9	
	0-3	.1	*	.1	.1	.1	.1	.1	.1	.0	.3	1.0	
5<10	4-10	.5	.5	.6	.6	1.1	1.4	1.3	.7	.0		6.8	
	11-21	1.2	.9	.9	1.0	1.6	2.4	2.4	1.5	.0		12.0	
	22+	.8	.8	.7	.6	.7	1.1	3.0	1.4	.0		9.2	
	TOT %	2.6	2.3	2.3	2.3	3.5	5.0	6.8	3.8	.0	.3	28.9	
	0-3	.2	.1	.1	.1	.2	.2	.2	.2	.0	.8	2.0	
10+	4-10	1.6	1.2	1.0	1.0	1.5	2.4	2.9	2.0	.0		13.4	
	11-21	2.4	1.4	1.1	.9	1.4	3.0	5.3	3.4	.0		19.0	
	22+	1.0	.5	.4	.3	.3	1.0	3.6	2.1	.0		9.1	
	TOT %	5.1	3.2	2.6	2.3	3.3	6.6	12.0	7.6	.0	.8	43.5	
	TOT OBS												30425
	TOT PCT	8.9	7.5	7.9	8.2	12.6	18.0	22.5	12.7	.0	1.7	100.0	

PERIOD: (PRIMARY) 1930-1971
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AREA 0005 PLACENTIA BAY SOUTH
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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	15.2	.5	2.4	7.3	18.2	12.5	2.9	1.2	1.1	1.8	63.1	36.9	5987
06&09	15.2	.6	2.9	8.4	17.4	13.5	2.9	.9	.7	1.6	64.3	35.7	4970
12&15	14.5	.7	2.7	9.6	19.3	13.1	3.4	.9	1.1	1.6	67.0	33.0	5357
18&21	14.1	.5	2.8	8.6	18.3	12.4	3.3	1.0	1.0	2.0	64.0	36.0	5807
TOT PCT	14.7	.6	2.7	8.4	18.3	12.8	3.1	1.0	1.0	1.8	64.5	35.5	22121 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	13.7	2.8	2.6	7.6	32.0	41.3	8748
06&09	13.1	3.0	2.6	7.3	28.8	45.3	7002
12&15	14.1	3.3	3.9	8.0	27.1	43.5	7707
18&21	13.6	3.0	3.0	8.9	27.0	44.6	7363
TOT PCT	13.6	3.0	3.0	7.9	28.9	43.5	30820 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	15.3	19.8	32.2	39.0	94.8	5856
06&09	15.4	20.4	33.2	39.0	93.7	4872
12&15	14.8	20.1	35.7	34.0	90.2	5269
18&21	14.3	19.4	34.0	32.8	93.1	5711
TOT PCT	14.9	19.9	33.8	33.2	93.0	21708 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		*
75/79	.0	.0	.0	.0	*	.0	*	.0		*
70/74	.0	.0	.0	*	*	*	*	*		.1
65/69	.0	.0	*	*	*	.2	.3	.6		1.0
60/64	.0	.0	*	*	.2	.6	1.8	3.2		5.8
55/59	.0	.0	*	*	.4	1.4	3.8	6.3		11.9
50/54	.0	*	*	.1	.7	1.1	3.6	6.2		11.8
45/49	*	*	*	.2	.6	2.0	3.0	6.0		11.9
40/44	*	*	*	.2	.9	1.8	3.8	7.0		13.8
35/39	*	*	*	.2	1.0	2.2	5.1	10.2		18.9
30/34	.0	*	.1	.2	.9	2.7	5.2	7.1		16.2
25/29	.0	*	*	.1	.9	1.1	1.3	2.3		5.4
20/24	.0	.0	*	.1	.1	.5	.7	.7		2.2
15/19	.0	.0	*	*	.1	.1	.3	.2		.8
10/14	.0	.0	.0	.0	*	*	.1	*		.1
5/9	.0	.0	.0	.0	.0	*	*	*		*
TOTAL PCT	*	.1	.2	1.2	5.5	13.7	29.1	50.1	19000	100.0

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	.0	.0
.0	.0	*	*	*	.1	*	.0	.0	*
*	*	.1	.1	.2	.4	.2	*	.0	*
.2	.1	.2	.5	1.3	1.9	1.2	.3	.0	.1
.5	.6	.7	1.0	2.1	3.1	2.7	.9	.0	.2
.7	.7	.8	1.1	2.1	2.7	2.4	1.1	.0	.2
1.0	.7	.9	1.2	1.9	2.5	2.3	1.1	.0	.3
1.3	1.1	1.3	1.3	2.1	2.4	2.5	1.5	.0	.2
2.0	2.0	2.0	1.8	2.0	2.7	4.1	2.0	.0	.3
2.0	1.7	1.6	1.2	.9	1.9	4.3	2.5	.0	.1
.7	.4	.2	.2	.2	.4	1.9	1.4	.0	*
.3	.1	.1	*	*	.1	.8	.8	.0	.0
.1	*	*	.0	.0	.0	.3	.3	.0	.0
*	*	.0	.0	.0	.0	*	.1	.0	.0
*	.0	.0	.0	.0	.0	*	.0	.0	.0
8.8	7.4	8.1	8.4	12.9	18.0	22.9	12.0	.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	73	53	50	43	35	31	8	43.7	9466
06&09	69	53	50	43	34	31	4	43.2	7412
12&15	76	55	51	43	35	31	9	44.5	8448
18&21	81	56	52	44	36	32	9	44.9	7691
TOT	81	55	51	43	35	31	4	44.1	33017

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	1.3	5.2	13.1	28.2	52.3	88	5490
06&09	.1	1.3	4.2	12.1	28.5	53.8	88	4462
12&15	.0	1.4	5.3	14.8	29.0	49.5	88	4691
18&21	.0	1.9	7.5	15.0	30.9	44.7	86	4604
TOT	3	282	1097	2069	5611	9585	88	19247

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PERIOD: (PRIMARY) 1930-1971
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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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	*	*	.0	5	*	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	*	.0	.0	14	*	*
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	*	*	.0	.0	49	*	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.1	.1	.1	.1	.1	*	*	*	.0	*	172	.3	.5
9/10	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.3	.3	.3	.2	.2	.2	.1	*	.0	.0	.0	400	.5	1.1
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.7	.6	.5	.4	.5	.3	.2	*	*	.0	.0	953	1.2	2.7
6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	.5	.5	.4	.4	.4	.2	.1	*	*	.0	.0	844	1.1	2.4
5	.0	.0	.0	.0	.0	.0	.0	*	.5	1.1	.7	.7	.7	.6	.6	.3	.1	*	.0	.0	.0	1297	1.7	3.6
4	.0	.0	.0	.0	.0	.0	.0	*	1.0	1.3	.9	.7	.8	.8	.9	.5	.1	*	*	.0	.0	1701	1.9	5.1
3	.0	.0	.0	.0	.0	.0	.0	.2	1.5	1.6	1.0	.9	.9	1.0	1.0	.6	.1	*	.0	.0	.0	2127	2.2	6.6
2	.0	.0	.0	.0	.0	.0	.0	.6	2.2	1.4	.9	1.1	1.0	1.0	1.2	.6	.1	*	.0	.0	.0	2418	2.3	7.7
1	.0	.0	.0	.0	.0	.0	*	.7	2.4	1.5	1.0	.8	1.0	1.2	1.2	.5	.1	.0	.0	.0	.0	2492	2.3	8.0
0	.0	.0	.0	.0	.0	.0	*	1.3	2.3	1.3	1.0	1.0	.9	1.1	1.0	.4	*	.0	.0	.0	.0	2507	1.7	8.6
-1	.0	.0	.0	.0	.0	.0	.1	1.1	1.5	.8	.8	.7	.7	.9	.5	.2	*	.0	.0	.0	.0	1799	1.0	6.3
-2	.0	.0	.0	.0	.0	*	.3	1.3	1.1	.8	.7	.6	.6	.6	.5	.1	*	.0	.0	.0	.0	1603	.6	5.9
-3	.0	.0	.0	.0	.0	*	.3	1.1	.8	.5	.5	.4	.4	.4	.2	*	.0	.0	.0	.0	.0	1142	.4	4.3
-4	.0	.0	.0	.0	.0	*	.7	.7	.6	.5	.4	.3	.3	.3	.2	*	*	.0	.0	.0	.0	984	.3	3.8
-5	.0	.0	.0	.0	.0	.1	.6	.7	.5	.4	.3	.3	.2	.2	.1	*	*	.0	.0	.0	.0	837	.1	3.3
-6	.0	.0	.0	.0	.0	.1	.5	.5	.5	.3	.2	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	608	.1	2.4
-7/-8	.0	.0	.0	.0	*	.5	.9	.7	.6	.4	.3	.2	.1	.1	*	*	*	.0	.0	.0	.0	925	.1	3.8
-9/-10	.0	.0	.0	.0	.1	.9	.5	.4	.3	.2	.2	.1	.1	.1	*	*	.0	.0	.0	.0	.0	567	.1	2.3
-11/-13	.0	.0	.0	*	.3	.5	.3	.3	.2	.1	.1	*	*	*	*	*	.0	.0	.0	.0	.0	429	*	1.9
-14/-16	.0	.0	.0	.2	.3	.1	.1	.1	*	*	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	183	*	.8
-17/-19	.0	.0	*	.1	.1	*	*	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	.0	.3
-20/-22	.0	*	*	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	.0	.1
-23/-25	.0	.0	*	*	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	.0	.1
-26/-30	*	.0	*	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	*
TOTAL																						24152		
PCT	*	*	.1	.3	.8	2.0	4.3	9.8	16.2	13.5	10.5	9.8	9.0	9.5	8.7	4.1	1.0	.2	*	*	*	100.0	18.2	81.8

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	.1	.4	*	.0	.0	.0	.5
1-2	*	1.0	.5	.0	.0	.0	1.5
3-4	*	.5	1.4	.2	.0	.0	2.1
5-6	.0	.1	1.2	.3	*	.0	1.7
7	.0	*	.7	.4	.1	*	1.2
8-9	.0	.0	.2	.3	.1	.0	.5
10-11	.0	.0	.1	.2	.1	*	.3
12	.0	.0	.0	.1	*	.0	.1
13-16	.0	.0	*	.1	.1	.0	.3
17-19	.0	.0	*	*	.0	*	*
20-22	.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	.2	2.0	4.0	1.7	.4	.1	8.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	*	.0	.0	.0	.4
1-2	*	1.0	.3	.0	.0	.0	1.3
3-4	*	.5	1.3	.2	.0	.0	2.0
5-6	.0	.1	.9	.4	*	.0	1.4
7	.0	*	.5	.4	.1	.0	1.0
8-9	.0	*	.1	.2	.1	.0	.5
10-11	.0	.0	.1	.3	*	*	.5
12	.0	.0	*	.2	.1	.0	.3
13-16	.0	.0	*	.1	.1	*	.3
17-19	.0	.0	.0	*	*	*	*
20-22	.0	.0	.0	.0	*	*	.1
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	.1	2.0	3.3	1.9	.5	.1	7.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.1	.0	.0	.0	.6
1-2	.1	.8	.4	.0	.0	.0	1.3
3-4	*	.7	1.4	.2	.0	.0	2.2
5-6	.0	.1	.7	.4	.1	.0	1.3
7	.0	.1	.5	.4	.1	.0	1.0
8-9	.0	.0	.1	.4	.1	.0	.5
10-11	.0	.0	.1	.2	.1	.0	.4
12	.0	.0	.0	.1	.1	.0	.2
13-16	.0	.0	.0	.1	.1	.0	.2
17-19	.0	.0	.0	*	.1	*	.1
20-22	.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	.2	2.1	3.2	1.8	.6	*	7.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	*	.0	.0	.0	.6
1-2	.1	1.2	.5	.0	.0	.0	1.8
3-4	*	.7	1.2	.2	.0	.0	2.0
5-6	.0	.1	.9	.3	*	.0	1.3
7	.0	*	.4	.3	*	.0	.8
8-9	.0	.0	.1	.2	*	*	.4
10-11	.0	.0	*	.1	.2	*	.3
12	.0	.0	*	.1	*	.0	.2
13-16	.0	.0	.0	.1	.2	.0	.3
17-19	.0	.0	.0	*	*	*	*
20-22	.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	.3	2.4	3.2	1.4	.4	*	7.7

PERIOD: (OVER-ALL) 1963-1971

ANNUAL

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.3W

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	.6	*	.0	.0	.0	.8
1-2	.1	2.0	.8	.0	.0	.0	2.9
3-4	.0	1.2	2.2	.3	.0	.0	3.7
5-6	.0	.3	1.6	.4	*	.0	2.4
7	.0	*	.8	.4	.1	.0	1.4
8-9	*	*	.1	.3	*	*	.5
10-11	.0	*	*	.3	.1	.0	.4
12	.0	.0	*	.1	*	.0	.2
13-16	.0	.0	*	.1	.1	*	.3
17-19	.0	.0	*	*	*	.0	.1
20-22	.0	.0	.0	*	*	*	*
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	5.7	2.0	.4	*	12.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.8	.1	.0	.0	.0	1.1
1-2	.1	2.4	1.2	.0	.0	.0	3.7
3-4	*	1.9	3.6	.2	.0	.0	5.7
5-6	.0	.4	2.5	.6	*	.0	3.5
7	.0	.1	1.6	.6	.1	.0	2.5
8-9	*	*	.4	.4	.1	*	1.0
10-11	.0	*	.3	.4	.1	*	.8
12	.0	*	*	.2	*	.0	.3
13-16	.0	.0	*	.2	.1	*	.4
17-19	.0	.0	*	*	*	*	.1
20-22	.0	.0	.0	*	.1	.1	.1
23-25	.0	.0	.0	.0	*	*	*
26-32	.0	.0	.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	5.6	9.7	2.8	.5	.2	19.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.1	.0	.0	.0	.9
1-2	.1	1.9	1.2	.0	.0	.0	3.3
3-4	*	1.7	3.2	.5	.0	.0	5.4
5-6	*	.4	2.8	.8	*	.0	4.1
7	.0	*	1.6	1.1	.2	*	2.9
8-9	*	*	.6	.8	.3	*	1.8
10-11	.0	*	.3	.9	.2	.0	1.4
12	.0	*	.1	.4	.2	*	.8
13-16	.0	.0	*	.5	.4	*	1.0
17-19	.0	.0	*	.1	.3	*	.4
20-22	.0	.0	.0	*	.2	*	.3
23-25	.0	.0	.0	*	.1	.0	.1
26-32	.0	.0	.0	*	.1	.1	.2
33-40	.0	.0	.0	.0	*	*	*
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	10.0	5.3	1.9	.2	22.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.4	.0	.0	.0	.0	.4	
1-2	*	1.0	.5	.0	.0	.0	1.5	
3-4	*	.6	1.4	.3	.0	.0	2.4	
5-6	.0	.2	1.6	.6	*	.0	2.5	
7	.0	*	.9	.7	.1	*	1.7	
8-9	.0	*	.4	.6	.1	*	1.0	
10-11	.0	.0	.1	.3	.1	*	.5	
12	.0	.0	.1	.2	.1	*	.4	
13-16	.0	.0	*	.2	.2	.0	.5	
17-19	.0	.0	*	*	*	*	.1	
20-22	.0	.0	.0	*	*	*	.1	
23-25	.0	.0	.0	.0	*	.0	*	
26-32	.0	.0	.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	.2	2.3	5.0	3.0	.7	.1	11.2	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	3.8	4.1	.3	.0	.0	.0	8.2	
1-2	.9	11.3	5.3	.0	.0	.0	17.5	
3-4	.2	7.6	15.6	2.0	.0	.0	25.5	
5-6	*	1.8	12.2	3.8	.3	.0	18.1	
7	.0	.3	7.0	4.4	.8	*	12.4	
8-9	*	.1	2.1	3.2	.7	.1	6.1	
10-11	.0	*	1.0	2.8	.6	.1	4.6	
12	.0	*	.3	1.6	.6	*	2.5	
13-16	.0	*	.1	1.6	1.3	.1	3.2	
17-19	.0	.0	.1	.2	.4	.1	.8	
20-22	.0	.0	.0	.1	.4	.2	.7	
23-25	.0	.0	.0	*	.2	*	.2	
26-32	.0	.0	.0	*	.1	.2	.3	
33-40	.0	.0	.0	.0	*	*	*	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								7758
TOT PCT	4.9	25.4	43.9	19.7	5.4	.7	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	1.1	7.5	13.9	7.5	3.3	.9	.4	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	6365	4
6-7	.1	.8	5.5	7.5	6.9	3.5	2.3	1.1	1.0	.1	.1	*	*	.0	.0	.0	.0	.0	.0	5310	6
8-9	*	.2	1.3	1.8	2.9	2.4	2.0	1.5	1.5	.3	.2	.1	*	.0	.0	.0	.0	.0	.0	2605	9
10-11	.0	.2	.3	.5	.7	.6	.5	.6	.8	.3	.2	*	.1	*	.0	.0	.0	.0	.0	863	10
12-13	.0	.0	.2	.1	.2	.1	.2	.2	.2	.1	.1	*	.1	*	.0	.0	.0	.0	.0	269	11
>13	.0	.0	.0	.1	.1	.1	.1	.1	.2	*	.1	*	.1	*	.0	.0	.0	.0	.0	151	14
INDET	2.6	2.9	3.5	2.1	1.6	.7	.4	.2	.2	.1	.1	*	*	*	.0	.0	.0	.0	.0	2668	4
TOTAL																				18231	6
PCT	3.8	11.6	24.7	19.7	15.7	8.3	6.0	3.8	4.0	1.1	.8	.2	.3	*	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1930-1971
(OVER-ALL) 1869-1971

AREA 0005 PLACENTIA BAY SOUTH
45.9N 54.3W

TABLE 20

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

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	1	*
71/72	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	6	*
69/70	.0	.0	.0	.0	.0	.0	.1	.2	*	.0	.0	.0	10	*
67/68	.0	.0	.0	.0	.0	.0	*	1.1	.1	*	.0	.0	34	.1
65/66	.0	.0	.0	.0	.0	.0	.5	2.5	.7	.1	.0	.0	103	.4
63/64	.0	.0	.0	.0	.0	.0	.8	6.4	4.9	.2	.0	.0	347	1.2
61/62	.0	.0	.0	.0	.0	*	1.3	12.1	10.5	.7	.1	.0	704	2.4
59/60	.0	.0	.0	.0	.0	*	4.1	19.3	12.5	1.3	.1	.0	1041	3.5
57/58	.0	.0	.0	.0	.0	*	9.6	20.0	18.4	4.2	.1	.0	1459	5.0
55/56	.0	.0	.0	.0	.0	.6	11.2	18.4	20.3	7.3	.6	*	1632	5.6
53/54	.2	.0	.0	.1	.1	.8	17.0	11.0	15.0	12.0	1.5	*	1584	5.4
51/52	*	.0	.1	.1	*	2.6	16.4	5.0	9.5	17.6	3.7	.5	1528	5.2
49/50	*	.2	.1	.2	.1	5.2	15.6	2.4	4.9	20.6	9.8	.7	1648	5.6
47/48	.1	.2	.2	.1	.4	8.0	11.9	.7	1.6	16.1	13.7	1.8	1501	5.1
45/46	.7	.4	.6	.7	1.4	15.7	6.5	.4	.7	12.9	20.7	5.4	1797	6.1
43/44	1.6	.3	.3	.6	3.2	18.7	3.3	.1	.3	4.1	17.8	9.0	1577	5.4
41/42	2.7	1.4	.9	1.5	8.1	20.3	1.9	.1	.2	1.9	15.7	14.3	1777	6.1
39/40	6.4	2.4	1.9	2.9	15.3	16.1	.1	.0	.1	.8	9.9	20.0	1904	6.5
37/38	11.0	5.1	4.5	8.1	25.4	8.5	.1	.0	.1	*	4.6	21.1	2127	7.3
35/36	23.2	13.3	10.2	18.0	25.8	2.7	.0	.0	.0	.1	1.0	16.0	2466	8.4
33/34	27.1	27.0	22.2	29.9	14.9	.3	.0	.0	.0	.0	.5	7.2	2631	9.0
31/32	18.4	28.6	33.9	26.1	4.3	.2	.0	.0	.0	.0	.1	2.2	2151	7.3
29/30	7.3	17.6	21.2	10.5	.8	.0	.0	.0	.0	.0	.0	1.2	1080	3.7
27/28	1.2	3.5	4.0	1.3	.2	.0	.0	.0	.0	.0	.0	.4	196	.7
<27	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	2	*
TOTAL	2413	1877	1610	1719	2622	2364	2317	2615	3175	2948	3099	2547	29306	100.0
MEAN	34.6	32.9	32.5	33.7	37.0	43.0	51.9	57.7	56.2	50.1	44.5	38.9	42.7	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1010	1011	1009	1010	1010	1008	1008	1010	1009	2437
FEB	1011	1009	1010	1009	1009	1008	1009	1009	1010	2045
MAR	1009	1009	1010	1009	1011	1009	1010	1008	1010	1893
APR	1013	1013	1013	1013	1017	1014	1013	1013	1013	1931
MAY	1015	1014	1014	1014	1014	1015	1014	1015	1015	2529
JUN	1014	1014	1014	1013	1015	1015	1015	1014	1014	2278
JUL	1016	1016	1016	1016	1016	1016	1016	1016	1016	2195
AUG	1016	1015	1015	1015	1015	1016	1015	1015	1015	2409
SEP	1017	1016	1017	1017	1017	1018	1016	1016	1017	2874
OCT	1015	1015	1015	1015	1015	1014	1014	1015	1015	2588
NOV	1016	1016	1016	1016	1015	1016	1015	1016	1016	2744
DEC	1013	1011	1012	1011	1012	1014	1011	1012	1012	2377
ANN	1014	1013	1013	1013	1013	1014	1013	1013	1014	28260
OBS	5937	1945	5241	1336	5391	1520	5264	1626		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	956	970	985	1001	1010	1019	1030	1036	1043
FEB	960	976	989	1002	1010	1019	1029	1035	1042
MAR	963	977	986	1001	1011	1019	1027	1034	1047
APR	966	983	994	1005	1014	1021	1030	1037	1041
MAY	977	991	999	1009	1015	1020	1028	1032	1037
JUN	985	995	1002	1010	1015	1020	1025	1030	1036
JUL	994	1001	1005	1012	1016	1020	1025	1029	1033
AUG	993	999	1005	1011	1016	1020	1025	1028	1033
SEP	986	999	1004	1012	1017	1022	1027	1031	1036
OCT	976	989	997	1009	1016	1021	1029	1032	1039
NOV	971	982	996	1009	1017	1024	1032	1037	1043
DEC	966	983	991	1004	1013	1020	1030	1036	1039

JANUARY

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1892-1971

AREA 0006 CABOT STRAIT
46.6N 58.2W

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	.6	1.3	1.3	.0	24.8	.0	.0	28.7	1.6	.0	2.3	.0	.0		.0	69.5
NE	4.5	.0	4.9	.0	18.4	.0	.0	27.7	10.5	.0	3.0	.0	.0		.0	58.8
E	13.5	.0	2.7	.0	24.8	1.8	1.8	48.2	1.8	.0	6.8	.0	3.2		.0	50.0
SE	14.4	1.9	1.9	.0	34.0	.0	.0	43.5	4.3	.0	8.1	.0	.5		.0	43.5
S	18.7	.0	11.1	.0	16.9	.0	1.2	40.7	3.0	.0	8.7	.0	.0		.0	47.6
SW	9.4	.3	2.0	1.0	18.7	1.0	1.0	30.9	3.8	.0	2.8	.0	1.0		1.0	60.5
W	1.1	3.2	.0	.0	27.2	.0	.0	28.8	6.2	.0	.5	.0	1.2		.0	63.3
NW	.9	.6	.0	.0	26.4	.0	.0	27.4	7.3	.0	.8	.0	.3		.0	64.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	16.7	.0	16.7	.0	16.7	.0	.0	33.3	.0	.0	.0	.0	16.7		.0	50.0
TOT PCT	5.9	1.2	2.3	.1	24.2	.2	.4	31.3	5.3	.0	2.9	.0	.9		.1	59.5
TOT OBS:	818															

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	8.5	1.9	3.8	.0	27.0	.0	.0	35.1	3.8	.0	3.8	.0	1.4		.0	55.9
06&09	6.9	.0	1.3	.6	31.3	.0	.6	36.1	6.9	.0	1.9	.0	.0		.0	53.1
12&15	4.0	1.8	.9	.0	19.3	.4	.0	24.2	5.8	.0	1.8	.0	1.3		.4	66.4
18&21	4.4	.9	3.1	.0	21.6	.4	.9	30.0	4.8	.0	4.0	.0	.4		.0	60.8
TOT PCT	5.8	1.2	2.3	.1	24.2	.2	.4	31.3	5.2	.0	2.9	.0	.9		.1	59.6
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	.3	2.1	3.6	2.4	.8	.2		9.5	19.5	11.5	6.8	9.0	5.0	7.8	10.3	11.1	8.9
NE	.1	1.6	4.0	1.8	.4	*		8.0	17.5	10.2	4.7	9.4	6.4	8.7	4.8	7.2	6.3
E	.0	1.5	2.8	1.7	.7	.1		6.9	19.9	8.3	10.6	7.8	5.0	7.2	5.6	7.4	2.7
SE	.2	1.4	2.0	2.5	.4	.0		6.5	19.4	5.4	5.9	5.2	7.1	7.1	5.6	8.2	7.1
S	.3	2.6	5.4	1.8	1.7	.0		9.8	19.0	10.2	10.2	10.5	13.6	9.5	8.7	8.9	9.8
SW	.1	3.0	4.1	3.4	1.0	.1		11.9	19.2	11.1	17.8	11.5	17.9	12.3	13.5	8.5	13.4
W	.5	4.0	9.5	7.2	4.0	.7		25.9	21.9	23.5	26.7	27.1	21.4	24.7	30.2	26.8	28.1
NW	.1	3.0	8.0	7.0	2.5	.3		20.9	22.0	21.3	15.7	19.7	20.7	21.5	21.4	21.4	23.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0	.6	1.7	.0	2.9	1.2	.0	.6	.0
TOT OBS	21	167	329	241	100	12	864		20.3	167	59	191	35	173	63	180	56
TOT PCT	2.4	19.3	37.4	27.9	11.6	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	.7	3.3	4.1	.9	.4		9.5	19.5	10.3	8.1	8.5	10.6
NE	.8	3.1	3.2	.9	*		8.0	17.5	8.7	8.7	7.6	7.0
E	.6	2.5	1.9	1.7	.1		6.9	19.9	7.4	7.2	6.8	6.3
SE	.6	2.5	1.8	1.5	.1		6.5	19.4	5.5	5.6	6.7	7.9
S	1.1	4.3	1.6	2.6	.1		9.8	19.0	10.2	11.1	9.3	9.1
SW	.9	4.7	3.8	2.1	.3		11.9	19.2	12.8	12.8	12.6	9.6
W	1.9	8.0	8.6	5.8	1.7		25.9	21.9	24.3	25.9	26.2	27.1
NW	1.2	5.5	8.7	4.3	1.2		20.9	22.0	19.8	19.9	21.5	21.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.7						.7	.0	.9	.6	.8	.4
TOT OBS	73	292	292	172	35	864		20.3	226	166	236	236
TOT PCT	8.4	33.8	33.8	19.9	4.1		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	.9	.4	19.0	30.1	36.7	11.9	.9	21.2	100.0	226
06&09	.6	1.8	22.3	36.7	27.1	10.2	1.2	19.5	100.0	166
12&15	.8	3.4	16.9	42.4	26.3	8.9	1.3	19.6	100.0	236
18&21	.4	1.3	19.9	39.8	21.6	14.8	2.1	20.7	100.0	236
TOT	6	15	167	323	241	100	12	20.3		864
PCT	.7	1.7	19.3	37.4	27.9	11.6	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	1.5	.4	2.4	5.4		6.2
NE	.5	.8	1.3	5.7		6.9
E	.3	.0	.4	5.3		7.5
SE	.2	*	.5	5.9		7.6
S	.4	.5	1.5	8.7		7.2
SW	.6	.7	3.2	7.9		6.9
W	1.8	1.5	7.5	14.4		6.7
NW	2.0	1.3	6.9	9.8		6.4
VAR	.0	.0	.0	.0		.0
CALM	.2	.0	.3	.3		6.0
TOT OBS	47	33	153	402	635	6.8
TOT PCT	7.4	5.2	24.1	63.3	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	1.0	.3	.6	.7	1.8	1.2	.3	.2	.4	.0	3.1	
NE	.6	.0	.2	.6	3.4	1.4	.1	*	.2	*	1.7	
E	1.3	.0	.2	.6	1.4	.6	.2	.4	.3	.1	.9	
SE	1.6	.0	.5	1.1	1.2	.8	.3	.2	.1	.2	.7	
S	1.2	.0	.1	1.1	2.4	1.1	1.2	.7	.1	.4	2.8	
SW	.9	.0	.7	1.3	3.5	2.5	.3	*	.3	*	2.7	
W	1.8	.0	1.2	1.2	6.8	6.2	1.4	.6	.7	.0	5.4	
NW	2.3	.0	.6	1.7	4.4	3.5	1.1	.3	.3	.0	5.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.0	.3	.2	.0	.0	.0	.0	.2	
TOT OBS	69	2	25	55	161	111	31	16	15	5	147	635
TOT PCT	10.9	.3	3.9	8.3	25.4	17.5	4.9	2.5	2.4	.8	23.1	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 >C
* OR >6500	2.0	2.8	2.8	3.0	3.0	3.0	3.1	3.1
* OR >5000	3.1	5.2	5.2	5.5	5.5	5.5	5.7	5.7
* OR >3500	4.7	8.8	10.1	10.4	10.4	10.4	10.8	10.8
* OR >2000	13.2	24.7	27.2	28.0	28.0	28.0	28.1	28.1
* OR >1000	21.9	45.0	50.6	52.4	53.0	53.3	53.5	53.5
* OR >600	24.1	50.2	57.4	59.7	60.7	61.3	61.6	61.6
* OR >300	25.2	51.9	59.7	62.7	64.2	64.9	65.4	65.6
* OR >150	25.2	52.0	59.9	62.9	64.5	65.3	65.7	65.9
* OR > 0	25.2	53.0	63.8	68.6	71.7	74.2	75.8	76.7
TOTAL	160	337	406	436	456	472	482	488

TOTAL NUMBER OF OBS: 636

PCT FREQ NH <5/8: 23.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.1	3.3	5.9	5.5	4.3	4.4	11.4	9.4	41.9	9.7	657

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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	.2	.2	.3	.4	.5	*	.7	.5	.0	.1	3.0	
<1/2	NO PCP	.1	.0	.2	.4	.6	.2	.1	.0	.0	.0	1.6	
	TOT %	.3	.2	.6	.8	1.1	.2	.8	.5	.0	.1	4.6	
	PCP	.3	.2	.2	.0	.2	.1	.5	.5	.0	.1	2.2	
1/2<1	NO PCP	.0	.2	.1	.2	.1	.1	.0	.0	.0	.0	.6	
	TOT %	.3	.4	.3	.2	.3	.2	.5	.5	.0	.1	2.8	
	PCP	.5	.4	.5	.5	.2	.2	.9	.8	.0	.0	4.2	
1<2	NO PCP	.1	.1	.0	.0	.1	.1	.1	.3	.0	.0	.8	
	TOT %	.6	.5	.5	.5	.4	.4	1.1	1.1	.0	.0	5.1	
	PCP	.9	.4	1.0	.8	1.7	1.1	2.0	1.6	.0	.0	9.4	
2<5	NO PCP	.0	.4	.2	.2	.2	.2	.8	.4	.0	.0	2.4	
	TOT %	.9	.8	1.2	.9	1.9	1.3	2.8	2.0	.0	.0	11.9	
	PCP	.4	1.0	.7	.9	1.2	1.7	2.6	2.1	.0	.0	10.7	
5<10	NO PCP	2.8	2.2	1.5	1.3	1.4	3.7	6.5	4.7	.0	.2	24.5	
	TOT %	3.1	3.2	2.2	2.2	2.6	5.4	9.1	6.8	.0	.2	35.1	
	PCP	.2	.0	.0	.1	.1	.3	1.0	.5	.0	.0	2.4	
10+	NO PCP	3.9	2.9	2.1	1.5	3.6	4.0	10.8	9.1	.0	.2	38.1	
	TOT %	4.2	2.9	2.1	1.7	3.7	4.4	11.8	9.6	.0	.2	40.6	
	TOT OBS												826
	TOT PCT	9.4	8.1	6.8	6.3	10.0	12.0	26.1	20.5	.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
	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.2	
<1/2	4-10	.0	.0	.0	.2	.4	*	.1	.1	.0		.9	
	11-21	.1	*	.3	.1	.2	.1	.1	.0	.0		1.1	
	22+	.2	.2	.2	.4	.4	*	.5	.4	.0		2.2	
	TOT %	.3	.2	.6	.8	1.1	.2	.8	.5	.0	.1	4.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1/2<1	4-10	.1	.0	.1	.0	.0	.0	.0	.1	.0		.4	
	11-21	.0	.1	.2	*	.0	.0	.1	.0	.0		.5	
	22+	.2	.3	.0	.1	.3	.2	.4	.3	.0		1.8	
	TOT %	.3	.4	.3	.1	.3	.2	.5	.4	.0	.1	2.7	
	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	4-10	.0	.1	.0	.1	.1	.1	.2	.1	.0		.8	
	11-21	.2	.3	.2	.2	.2	.1	.1	.5	.0		1.8	
	22+	.4	.0	.2	.4	.1	.2	.9	.5	.0		2.6	
	TOT %	.6	.5	.4	.6	.4	.4	1.3	1.1	.0	.0	5.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.0	.1	.1	*	.3	.4	.6	.1	.0		1.9	
	11-21	.3	.3	.4	.4	.1	.4	.9	.6	.0		3.5	
	22+	.5	.1	.6	.5	1.3	.5	1.4	1.3	.0		6.2	
	TOT %	.9	.8	1.2	.9	1.9	1.3	2.8	2.0	.0	.0	11.8	
	0-3	.1	.0	.0	.1	.2	.1	.0	.0	.0	.2	.8	
5<10	4-10	.6	1.0	.9	.2	.4	1.3	.8	.6	.0		5.9	
	11-21	.8	1.0	.5	.6	1.5	1.8	3.0	3.0	.0		12.2	
	22+	1.5	1.3	.8	1.1	.5	2.2	5.1	3.1	.0		15.6	
	TOT %	3.1	3.2	2.2	2.2	2.6	5.4	9.0	6.8	.0	.2	34.5	
	0-3	.2	*	.0	*	.1	.0	.6	.1	.0	.2	1.2	
10+	4-10	1.5	.4	.4	.8	1.2	1.1	2.3	1.9	.0		9.5	
	11-21	2.1	2.0	1.2	.6	1.4	1.7	5.4	3.9	.0		18.3	
	22+	.8	.4	.5	.3	1.1	1.6	3.6	4.3	.0		12.3	
	TOT %	4.4	2.8	2.0	1.7	3.8	4.3	11.8	10.2	.0	.2	41.4	
	TOT OBS												851
	TOT PCT	9.5	8.0	6.6	6.4	10.0	11.7	26.1	21.0	.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
00E03	12.7	.0	4.2	9.7	23.0	19.4	6.1	.0	1.8	.0	77.0	29.0	165
06E09	14.6	.0	3.1	9.2	27.7	18.5	6.2	.0	3.1	.8	83.1	16.9	130
12E15	6.1	.0	6.1	8.1	30.4	15.5	3.4	2.0	2.0	.7	74.3	25.7	148
18E21	10.1	1.0	2.5	6.5	21.6	16.6	4.0	6.5	2.5	1.5	72.9	27.1	199
TOT	69	2	25	53	162	112	31	16	15	5	490	132	642
PCT	10.7	.3	3.9	8.3	25.2	17.4	4.8	2.5	2.3	.8	76.3	23.7	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
00E03	5.0	1.8	2.7	17.1	41.4	32.0	222
06E09	5.5	3.7	7.3	9.8	30.5	43.3	164
12E15	3.0	3.4	9.1	9.8	29.5	49.1	234
18E21	5.1	2.1	6.4	10.2	35.7	40.4	235
TOT	39	23	49	101	295	352	855
PCT	4.6	2.7	5.7	11.8	34.5	41.2	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
00E03	13.6	19.1	37.7	46.7	21.6	162
06E09	14.8	20.3	37.5	46.1	16.4	128
12E15	6.1	14.2	27.0	48.6	24.3	148
18E21	10.1	15.7	28.8	44.9	26.3	198
TOT	70	109	206	286	144	636
PCT	11.0	17.1	32.4	45.0	22.6	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
50/54	.0	.0	.0	.0	.0	.0	.4	.0	2	.4
45/49	.0	.0	.0	.0	.0	.2	.0	.6	4	.8
40/44	.0	.0	.0	.0	.2	.8	1.1	4.4	34	6.4
35/39	.0	.0	.2	.0	2.3	4.0	4.9	9.7	111	21.0
30/34	.0	.0	.2	.2	2.1	3.6	8.9	11.7	141	26.7
25/29	.2	.0	.2	.4	2.7	5.3	9.3	8.9	142	26.9
20/24	.0	.0	.0	.2	1.3	2.8	3.8	3.4	61	11.6
15/19	.0	.2	.2	1.1	.4	1.3	1.5	.8	29	5.5
10/14	.0	.0	.0	.0	.4	.0	.4	.0	4	.8
TOTAL	1	1	4	10	49	95	160	208	528	100.0
PCT	.2	.2	.8	1.9	9.3	18.0	30.3	39.4		

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	.0	.0	.0
.0	.0	.2	.1	.5	.0	.0	.0	.0	.0
.5	.6	.0	.6	2.6	1.2	.9	.2	.0	.0
1.6	3.2	2.5	1.4	2.7	3.4	3.6	2.2	.0	.4
2.6	1.5	2.3	3.4	2.9	2.3	6.2	5.2	.0	.4
3.0	.7	1.2	.2	2.1	3.7	9.4	6.3	.0	.2
1.5	.9	.3	.0	.6	.5	4.4	3.4	.0	.0
.1	.6	.1	.0	.0	.2	1.9	2.5	.0	.0
.0	.0	.0	.0	.0	.0	.0	.8	.0	.0
9.6	7.7	6.7	5.6	11.3	11.3	26.3	20.5	.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
00E03	49	44	41	30	17	12	9	29.8	225
06E09	54	47	40	30	16	10	3	29.5	160
12E15	45	43	39	30	20	13	7	30.3	232
18E21	50	46	42	32	19	14	13	31.4	235
TOT	54	44	41	30	18	13	3	30.3	852

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
00E03	.0	2.8	7.7	18.9	32.2	38.5	85	149
06E09	.0	1.9	11.1	17.6	35.2	34.3	84	108
12E15	.7	2.9	8.0	20.3	20.3	47.8	85	138
18E21	.0	3.6	10.7	15.7	34.3	35.7	84	140
TOT	1	15	49	96	160	208	84	529

JANUARY

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1892-1971

TABLE 17

AREA 0006 CABOT STRAIT
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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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.9	.3	.2	10	.8	.8
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	1.2	.2	.0	13	.0	2.0
6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	.5	.0	.0	8	.3	.9
5	.0	.0	.0	.0	.0	.0	.0	.0	.5	.8	.6	.0	.0	12	.2	1.7
4	.0	.0	.0	.0	.0	.0	.0	.0	1.1	2.0	.8	.0	.0	25	.9	3.3
3	.0	.0	.0	.0	.0	.0	.0	.0	.3	2.6	.2	.0	.0	20	.0	3.0
2	.0	.0	.0	.0	.0	.0	.0	.8	2.0	2.0	.0	.0	.0	31	.0	4.7
1	.0	.0	.0	.0	.0	.0	.0	.2	3.6	1.4	.0	.0	.0	34	.5	4.7
0	.0	.0	.0	.0	.0	.0	.0	2.3	3.3	.8	.2	.0	.0	43	.2	6.3
-1	.0	.0	.0	.0	.0	.0	.0	1.2	3.3	.5	.0	.0	.0	33	.2	4.8
-2	.0	.0	.0	.0	.0	.0	.6	3.5	2.9	.3	.0	.0	.0	48	.3	6.9
-3	.0	.0	.0	.0	.0	.0	.3	2.9	1.2	.2	.0	.0	.0	31	.0	4.7
-4	.0	.0	.0	.0	.0	.0	1.4	3.2	.3	.2	.0	.0	.0	33	.2	4.8
-5	.0	.0	.0	.0	.0	.0	3.3	3.9	.6	.0	.0	.0	.0	52	.0	7.8
-6	.0	.0	.0	.0	.0	.6	2.4	2.4	.5	.0	.0	.0	.0	39	.0	5.9
-7/-8	.0	.0	.0	.0	.0	.8	6.0	1.4	.3	.0	.0	.0	.0	56	.0	8.4
-9/-10	.0	.0	.0	.0	.2	2.9	4.4	.9	.0	.0	.0	.0	.0	55	.0	8.3
-11/-13	.0	.0	.0	.2	2.4	3.6	2.0	.6	.2	.0	.0	.0	.0	59	.0	8.9
-14/-16	.0	.0	.0	.5	4.2	1.2	.3	.0	.0	.0	.0	.0	.0	41	.0	6.2
-17/-19	.0	.0	.2	1.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	13	.0	2.0
-20/-22	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.3
-23/-25	.0	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.6
-26/-30	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.3
TOTAL	1	1	5	13	50	60	138	153	133	78	28	4	1	665	19	646
PCT	.2	.2	.8	2.0	7.5	9.0	20.8	23.0	20.0	11.7	4.2	.6	.2	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	1.2	.0	.0	.0	.0	1.2
1-2	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	1.0	1.0	1.3	.0	.0	3.3
5-6	.0	.0	.5	.4	.0	.0	.8
7	.0	.0	.0	.9	.7	.0	1.2
8-9	.0	.0	1.0	.5	.0	.0	1.5
10-11	.0	.0	.0	.0	.0	.0	.0
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	3.4	2.4	3.0	.7	.0	9.6

NE

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	.0	.0	2.8	.0	.0	.0	2.8
3-4	.0	.0	.6	.6	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.0	.0	.0	.0	1.0
8-9	.0	.0	1.0	.6	.0	.0	1.6
10-11	.0	.0	.1	.5	.0	.0	.6
12	.0	.0	.0	.6	.5	.0	1.1
13-16	.0	.0	.0	.5	.5	.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	.3	1.0	5.5	2.8	1.0	.0	10.7

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	.0	1.6	.0	.0	.0	1.6
3-4	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.5	.0	.0	.5
8-9	.0	.0	1.0	.4	.0	.0	1.3
10-11	.0	.0	.4	.5	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.5	.5	.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	.0	.0	3.4	1.8	.5	.0	5.6

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	1.0	.2	.0	.0	.0	1.2
3-4	.0	1.3	.0	1.0	.0	.0	2.4
5-6	.0	.0	1.0	1.5	.0	.0	2.4
7	.0	.0	.5	.0	.0	.0	.5
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	.0	2.4	1.7	2.9	.0	.0	7.0

PERIOD: (OVER-ALL) 1963-1971

JANUARY

AREA 0006 CABOT STRAIT
46.0N 58.2W

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	.7	.0	.0	.0	1.6
1-2	.0	.4	.7	.0	.0	.0	1.1
3-4	.0	1.0	.7	.0	.0	.0	1.7
5-6	.0	1.0	1.8	.4	.0	.0	3.2
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	.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	.0	3.2	4.0	.8	.5	.0	8.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.7	.0	.0	.0	1.3
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.5	1.7	.0	.0	.0	2.2
5-6	.0	.0	.4	.6	.0	.0	1.0
7	.0	.5	1.6	.0	.0	.0	2.1
8-9	.0	.5	.0	.5	.0	.0	1.0
10-11	.0	.1	.5	1.6	1.0	.0	3.2
12	.0	.0	.0	.6	.0	.0	.6
13-16	.0	.0	.0	.6	.5	.0	1.1
17-19	.0	.0	.0	.5	.6	.0	1.1
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	2.3	4.9	4.4	2.1	.0	13.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.6	.5	.0	.0	.0	2.4
1-2	.0	1.9	1.5	.0	.0	.0	3.4
3-4	.0	.5	1.8	1.0	.0	.0	3.3
5-6	.0	.0	1.7	1.2	.0	.0	2.9
7	.0	.7	1.8	.4	.4	.0	2.5
8-9	.0	.4	.0	.5	.0	.0	.8
10-11	.0	.4	.5	.7	.0	.0	1.6
12	.0	.0	.0	1.7	.4	.0	2.1
13-16	.0	.0	.0	1.7	.5	.0	2.2
17-19	.0	.0	.0	.5	.8	.0	1.3
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.5	.5	1.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	4.7	7.8	7.6	2.5	.5	23.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.6	2.5	.0	.0	.0	.0	3.2	
1-2	.0	1.7	1.0	.0	.0	.0	2.7	
3-4	.0	.0	1.1	.5	.0	.0	1.6	
5-6	.0	.0	1.9	1.3	.0	.0	3.3	
7	.0	.0	2.4	2.1	.4	.0	4.9	
8-9	.0	.1	1.0	1.0	.5	.0	2.5	
10-11	.0	.0	.0	.6	1.0	.0	1.6	
12	.0	.0	.0	.1	.6	.0	.7	
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	4.4	7.4	5.7	2.4	.0	20.5	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	2.4	7.8	1.9	.0	.0	.0	12.1	
1-2	.0	6.3	7.8	.0	.0	.0	14.1	
3-4	.0	4.4	7.3	4.4	.0	.0	16.0	
5-6	.0	1.0	7.3	5.3	.0	.0	13.6	
7	.0	.5	7.3	3.9	1.5	.0	13.1	
8-9	.0	1.0	3.9	3.4	.5	.0	8.7	
10-11	.0	.5	1.5	4.4	1.9	.0	8.3	
12	.0	.0	.0	3.4	1.5	.0	4.9	
13-16	.0	.0	.0	3.4	1.9	.0	5.3	
17-19	.0	.0	.0	1.0	1.9	.0	2.9	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.5	.5	1.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	21.4	38.9	29.1	9.7	.5	100.0	206

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	.5	5.1	7.9	7.2	4.3	1.5	1.8	.8	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	117	5
6-7	.0	.3	2.6	5.6	7.4	4.9	3.1	1.5	2.6	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	114	8
8-9	.0	.0	2.0	2.0	3.3	2.3	3.6	2.3	3.8	.3	.3	.3	.3	.0	.0	.0	.0	.0	.0	80	10
10-11	.0	.0	.8	1.3	.8	1.5	1.0	.8	1.0	1.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	35	10
12-13	.0	.0	.0	.0	.0	.5	.3	.0	.3	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	6	17
>13	.0	.0	.0	.3	.0	.0	.0	-	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	13
INDET	1.5	.8	2.3	1.0	1.0	1.0	1.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	5
TOTAL	8	24	61	68	66	44	43	23	33	14	2	3	2	0	0	0	0	0	0	391	8
PCT	2.0	6.1	15.6	17.4	16.9	11.3	11.0	5.9	8.4	3.6	.5	.8	.5	.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	.0	2.6	.0	17.0	.0	1.0	20.6	.8	.0	2.3	.0	.0		.0	76.3
NE	2.7	.0	3.3	.0	17.8	.0	.4	22.8	1.8	.0	7.6	.0	.0		.0	67.8
E	24.1	.0	1.9	1.1	17.2	1.1	1.9	45.4	1.9	.0	2.9	.0	.0		.0	49.9
SE	24.5	.0	6.2	1.5	8.8	.0	.0	37.6	7.7	1.5	5.5	.0	1.5		.0	46.4
S	7.3	.0	1.2	.0	10.2	.0	.0	18.8	.0	.0	12.2	1.6	.0		.0	67.3
SW	2.0	1.0	1.0	.0	24.4	.0	.0	27.4	5.9	.0	7.4	.0	1.0		.0	58.3
W	2.2	.6	.8	.0	35.5	.0	.4	38.9	3.7	.0	1.0	.0	.4		.0	55.9
NW	1.0	1.4	.3	.0	20.8	.6	.6	22.6	2.2	.0	1.9	.0	.6		1.7	71.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	13.3	.0	.0	13.3	.0	.0	.0	.0	.0		.0	86.7
TOT PCT	5.9	.5	1.6	.2	22.3	.2	.5	30.2	3.0	.1	3.8	.1	.4		.3	62.1
TOT OBS:	931															

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	6.1	.5	.5	.5	23.4	.0	.5	30.8	2.3	.0	2.8	.0	.5		.9	62.6
06&09	7.5	.5	1.1	.5	20.9	.0	1.1	30.5	4.3	.5	2.7	.5	.5		.0	61.0
12&15	6.3	1.2	2.4	.0	24.8	.0	.4	32.7	1.2	.0	6.3	.0	.4		.0	59.4
18&21	4.2	.0	2.1	.0	20.4	.7	.4	27.1	4.2	.0	3.5	.0	.4		.4	64.4
TOT PCT	5.9	.5	1.6	.2	22.4	.2	.5	30.1	3.0	.1	3.9	.1	.4		.3	62.0
TOT OBS:	939															

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	2.4	4.9	1.9	.7	.0		10.4	16.8	8.5	16.3	18.1	6.3	6.3	7.5	10.5	10.1
NE	.5	2.9	2.3	1.2	.5	.1		7.5	15.9	7.8	2.0	6.9	6.3	8.4	6.3	6.9	13.0
E	.2	2.3	3.1	3.2	1.1	.1		10.1	20.2	13.1	11.2	10.1	5.6	8.1	10.9	10.4	7.5
SE	.2	1.4	2.3	2.0	1.1	.3		7.3	22.3	5.0	10.2	9.5	10.6	8.3	5.0	6.9	5.8
S	.4	1.7	2.5	1.1	.8	.0		6.5	17.2	7.2	5.1	5.7	5.0	7.6	5.9	6.7	6.2
SW	.3	2.0	5.0	1.9	1.0	.5		10.7	20.3	8.4	5.1	10.0	11.9	13.8	11.6	11.9	9.1
W	.6	2.7	8.0	8.2	5.2	1.4		26.0	25.4	26.9	33.2	18.9	29.4	24.0	35.6	26.1	26.0
NW	.3	4.1	7.4	5.2	2.9	.1		19.9	20.7	22.5	16.8	18.1	22.5	21.8	17.2	18.3	21.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0	.6	.0	2.7	2.5	1.7	.0	2.4	1.3
TOT OBS	42	185	337	233	125	24	946		20.6	170	49	148	40	172	80	210	77
TOT PCT	4.4	19.6	35.6	24.6	13.2	2.5		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	1.4	4.2	3.6	.8	.4		10.4	16.8	10.3	15.6	6.6	10.4
NE	1.3	3.5	1.4	1.1	.2		7.5	15.9	6.5	6.8	7.7	8.5
E	1.3	3.0	3.1	2.2	.5		10.1	20.2	12.7	9.2	9.0	9.6
SE	.6	2.2	2.3	1.3	.9		7.3	22.3	6.2	9.7	7.2	6.6
S	1.1	2.5	1.7	1.2	.1		6.5	17.2	6.7	5.6	7.0	6.5
SW	1.1	4.5	2.6	1.4	1.1		10.7	20.3	7.6	10.4	13.1	11.1
W	1.5	5.5	8.5	6.7	3.8		26.0	25.4	28.3	21.1	27.7	26.0
NW	1.5	6.5	6.7	4.3	.9		19.9	20.7	21.2	19.0	20.3	19.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	.5	2.7	1.2	2.1
TOT OBS	108	302	283	179	74	946		20.6	219	188	252	287
TOT PCT	11.4	31.9	29.9	18.9	7.8		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	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.5	2.7	16.4	33.8	28.3	16.0	2.3	22.0	100.0	219
06&09	2.7	3.2	19.7	38.8	23.9	10.6	1.1	18.8	100.0	188
12&15	1.2	3.2	21.0	34.5	24.2	10.7	5.2	21.3	100.0	252
18&21	2.1	2.4	20.6	35.9	22.6	15.0	1.4	20.3	100.0	287
TOT	15	27	185	337	233	125	24	20.6		946
PCT	1.6	2.9	19.6	35.6	24.6	13.2	2.5		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	3.3	.8	2.4	4.1		4.9
NE	1.7	.2	.6	4.7		6.0
E	1.1	.5	1.1	7.6		6.8
SE	.4	.4	1.1	6.2		7.2
S	.4	.1	1.8	3.6		6.8
SW	1.9	.6	1.4	6.7		6.2
W	4.4	2.6	6.0	12.1		5.8
NW	4.3	1.7	5.6	9.0		5.6
VAR	.0	.0	.0	.0		.0
CALM	.8	.3	.1	.3		3.2
TOT OBS	131	51	143	386	711	6.0
TOT PCT	18.4	7.2	20.1	54.3	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	1.1	.0	.2	.7	2.4	.7	.1	.1	.0	.0	5.2	
NE	1.2	.1	.2	.6	1.2	.6	.0	.1	.1	.3	2.7	
E	1.9	.0	1.4	1.8	1.4	1.3	.0	.1	.3	.0	2.1	
SE	1.0	.1	.7	1.4	1.7	.8	.0	.6	.1	.5	1.4	
S	.4	.4	.0	.5	1.5	.6	.2	.1	.6	.7	.9	
SW	1.1	*	.3	1.3	2.7	.9	.1	.5	.0	.2	3.6	
W	2.1	.2	.7	2.4	5.5	3.6	.7	.5	.8	.5	8.1	
NW	1.2	.6	.3	1.9	4.2	3.6	.3	.3	.6	.4	7.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.3	
TOT OBS	72	10	27	75	146	85	10	17	18	19	232	711
TOT PCT	10.1	1.4	3.8	10.5	20.5	12.0	1.4	2.4	2.5	2.7	32.6	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	1.7	3.8	4.9	5.0	5.0	5.2	5.2	5.2
• OR >5000	2.8	6.2	7.3	7.4	7.4	7.6	7.6	7.6
• OR >3500	3.4	7.1	8.7	8.8	8.8	9.0	9.0	9.0
• OR >2000	6.6	16.2	19.5	20.4	20.6	20.9	20.9	20.9
• OR >1000	13.4	31.7	37.8	40.9	41.0	41.3	41.5	41.5
• OR >600	16.4	37.0	46.5	50.6	51.3	51.8	52.1	52.1
• OR >300	16.4	37.4	47.5	52.9	54.3	55.3	55.9	55.9
• OR >150	16.4	37.4	47.6	53.2	55.2	56.2	57.3	57.3
• OR > 0	14.5	37.8	49.4	57.6	61.6	64.1	67.1	67.4
TOTAL	118	270	353	411	440	458	479	481

TOTAL NUMBER OF OBS: 714 PCT FREQ NH <5/8: 32.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.8	6.1	7.8	4.8	3.8	4.1	7.5	8.6	37.7	9.8	733

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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	.6	.2	.5	.4	.2	.2	.8	.6	.0	.0	3.4	
<1/2	NO PCP	.0	.3	.1	.2	.4	.4	.0	.1	.0	.0	1.5	
	TOT %	.6	.5	.5	.6	.6	.6	.8	.7	.0	.0	4.9	
	PCP	.0	.2	.4	.3	.0	.5	.6	.4	.0	.0	2.5	
1/2<1	NO PCP	.2	.1	.1	.1	.2	.1	.2	.2	.0	.0	1.2	
	TOT %	.2	.3	.5	.5	.2	.5	.8	.7	.0	.0	3.6	
	PCP	.3	.6	1.7	1.1	.1	.3	2.3	.7	.0	.1	7.3	
1<2	NO PCP	.0	.1	.1	.1	.0	.2	.3	.2	.0	.0	1.0	
	TOT %	.3	.7	1.8	1.2	.1	.5	2.6	.9	.0	.1	8.3	
	PCP	.5	.5	1.1	.6	.7	.8	2.7	.9	.0	.1	7.9	
2<5	NO PCP	.6	.1	.2	.2	1.2	1.0	2.1	1.0	.0	.0	6.3	
	TOT %	1.0	.6	1.3	.9	1.9	1.8	4.8	1.9	.0	.1	14.3	
	PCP	.4	.2	.8	.3	.1	1.1	3.4	1.2	.0	.0	7.5	
5<10	NO PCP	2.1	1.6	1.3	2.2	1.6	2.8	6.1	4.5	.0	.6	22.9	
	TOT %	2.5	1.8	2.1	2.5	1.7	3.9	9.6	5.6	.0	.6	30.4	
	PCP	.9	*	.1	.0	.1	.1	.3	.7	.0	.0	1.6	
10+	NO PCP	5.5	3.4	3.7	1.7	2.0	3.5	7.3	9.1	.0	.8	36.9	
	TOT %	5.8	3.4	3.8	1.7	2.1	3.6	7.5	9.8	.0	.8	38.5	
	TOT OBS												932
	TOT PCT	10.4	7.4	10.1	7.3	6.6	10.9	26.0	19.6	.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
	0-3	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	
<1/2	4-10	.0	.3	.1	.1	.2	.0	.2	.2	.0		1.1	
	11-21	.2	.0	.3	.3	.2	.5	.1	.1	.0		1.7	
	22+	.3	.2	.1	.1	.2	.1	.6	.4	.0		2.0	
	TOT %	.6	.5	.5	.6	.6	.6	.9	.7	.0	.0	5.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.1	.0	*	.1	.1	.1	.1	.0		.5	
	11-21	.2	*	.2	.2	.0	.1	.0	*	.0		.6	
	22+	.0	.2	.4	.3	.1	.3	.6	.5	.0		2.4	
	TOT %	.2	.3	.5	.5	.2	.5	.7	.7	.0	.0	3.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1<2	4-10	.0	.3	.1	.2	.0	.1	.6	.3	.0		1.5	
	11-21	.2	.1	.3	.1	.0	.1	.4	.3	.0		1.5	
	22+	.1	.4	1.4	.9	.1	.3	1.5	.4	.0		5.1	
	TOT %	.3	.7	1.8	1.2	.1	.5	2.6	.9	.0	.1	8.2	
	0-3	.0	.0	.0	.0	.2	.0	.1	*	.0	.1	.4	
2<5	4-10	.1	.2	.1	.1	.2	.6	.4	.4	.0		2.1	
	11-21	.5	*	.2	.5	.6	.6	1.2	.5	.0		4.0	
	22+	.4	.3	1.0	.3	.9	.6	3.1	.9	.0		7.5	
	TOT %	1.0	.6	1.3	.8	1.9	1.8	4.7	1.9	.0	.1	14.1	
	0-3	.2	.3	.1	.0	.1	.2	.0	.0	.0	.6	1.5	
5<10	4-10	.3	.3	.5	.3	.5	.6	.3	1.1	.0		3.9	
	11-21	1.3	1.0	1.0	.8	.8	1.9	2.7	1.7	.0		11.1	
	22+	.7	.2	.6	1.4	.2	1.2	6.4	2.7	.0		13.5	
	TOT %	2.5	1.8	2.1	2.5	1.7	3.8	9.5	5.6	.0	.6	30.0	
	0-3	.2	.2	.2	.2	.1	.1	.4	.3	.0	.7	2.2	
10+	4-10	2.0	1.6	1.5	.7	.8	.6	1.1	2.0	.0		10.4	
	11-21	2.6	1.2	1.2	.5	.8	1.9	3.6	4.7	.0		16.6	
	22+	1.0	.4	.9	.4	.4	1.0	2.5	3.2	.0		9.9	
	TOT %	5.8	3.5	3.8	1.8	2.1	3.6	7.6	10.2	.0	.7	39.1	
	TOT OBS												942
	TOT PCT	10.4	7.4	10.0	7.3	6.6	10.7	26.0	19.9	.0	1.6	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	9.5	2.4	3.6	10.1	19.6	10.7	1.2	.0	2.4	3.0	62.5	37.5	168
06&09	11.2	.8	3.2	7.2	31.2	12.8	.0	.0	.8	4.0	71.2	28.8	125
12&15	6.9	1.0	3.9	12.8	22.7	12.3	2.0	3.0	1.5	2.0	68.0	32.0	203
18&21	12.6	1.4	4.1	10.8	13.1	11.7	1.8	5.0	4.5	2.3	67.1	32.9	222
TOT	72	10	27	76	147	85	10	17	18	19	481	237	718
PCT	10.0	1.4	3.8	10.6	20.5	11.8	1.4	2.4	2.5	2.6	67.0	33.0	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	5.0	5.0	7.9	14.2	28.9	39.4	218
06&09	4.2	1.6	8.5	10.1	31.2	44.4	189
12&15	4.3	3.9	9.9	16.7	31.8	34.1	258
18&21	6.3	3.8	7.3	14.7	28.0	39.9	286
TOT	48	35	77	135	284	372	951
PCT	5.0	3.7	8.1	14.2	29.9	39.1	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	9.6	16.8	40.1	26.3	33.5	167
06&09	11.5	17.2	30.3	42.6	27.0	122
12&15	6.9	14.8	39.9	32.0	28.1	203
18&21	12.6	18.9	41.9	29.3	28.8	222
TOT	72	121	278	226	210	714
PCT	10.1	16.9	38.9	31.7	29.4	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
45/49	.0	.0	.0	.0	.0	.0	.0	.5	3	.5
40/44	.0	.0	.0	.0	.0	.7	1.4	1.1	18	3.2
35/39	.0	.2	.0	.4	.2	.4	3.0	6.9	62	11.0
30/34	.0	.0	.0	.2	1.1	2.8	7.8	16.1	158	28.0
25/29	.0	.0	.0	.5	1.8	5.7	8.9	8.7	144	25.5
20/24	.0	.2	.2	.0	1.6	2.1	5.1	6.9	91	16.1
15/19	.0	.0	.0	.0	.7	3.2	6.0	1.2	63	11.2
10/14	.0	.0	.0	.2	.2	.5	1.1	.7	15	2.7
5/9	.0	.0	.0	.2	.2	.7	.2	.4	9	1.6
0/4	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
TOTAL	0	2	1	8	32	91	189	241	564	100.0
PCT	.0	.4	.2	1.4	5.7	16.1	33.5	42.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.2	.2	.2	.0	.0	.0	.0
.0	.4	.6	.7	.8	.4	.0	.4	.0	.0
.6	1.1	3.5	1.2	.9	1.7	1.2	.9	.0	.0
2.0	1.7	4.3	3.2	2.2	4.0	4.8	5.4	.0	.4
3.9	2.7	2.0	2.3	2.3	2.1	5.2	4.6	.0	.4
2.6	2.0	.4	.2	.0	1.6	5.6	3.4	.0	.4
.9	.4	.0	.0	.2	.6	6.4	2.6	.0	.0
.0	.0	.2	.0	.0	*	1.5	.8	.0	.2
.2	.0	.0	.0	.0	.0	.7	.4	.0	.4
.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
10.2	8.2	11.1	7.7	6.6	10.6	25.6	18.4	.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	40	39	37	27	15	10	8	26.5	216
06&09	45	42	38	29	15	7	6	27.9	187
12&15	45	44	40	28	17	3	1	26.8	255
18&21	46	43	37	28	14	7	5	27.4	286
TOT	46	43	38	28	14	7	1	27.1	944

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	1.3	4.0	14.1	39.6	40.9	87	149
06&09	.0	4.6	5.5	14.7	29.4	45.9	86	109
12&15	.0	.6	6.4	13.4	32.1	45.5	87	156
18&21	.0	1.9	7.8	19.5	31.2	39.6	85	154
TOT	0	11	34	91	189	243	86	568

PERIOD: (PRIMARY) 1960-1971
(OVER-ALL) 1889-1971

AREA 0006 CABOT STRAIT
46.8N 58.3W

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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1	.2	.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.2	5	.3	.5
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.6	.2	13	.6	1.4
6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.5	.2	.0	5	.3	.5
5	.0	.0	.0	.0	.0	.0	.0	.0	.6	1.3	.0	.0	12	.0	1.9
4	.0	.0	.0	.0	.0	.0	.0	.2	1.1	.9	.0	.0	14	.5	1.7
3	.0	.0	.0	.0	.0	.0	.0	.2	2.2	.9	.2	.0	22	.3	3.2
2	.0	.0	.0	.0	.0	.0	.0	1.1	2.7	.6	.0	.0	28	.0	4.4
1	.0	.0	.0	.0	.0	.0	.0	2.8	3.3	.3	.0	.0	41	.3	6.2
0	.0	.0	.0	.0	.0	.0	.2	3.8	2.7	.2	.0	.0	43	.3	6.5
-1	.0	.0	.0	.0	.0	.0	.2	3.3	1.1	.0	.0	.0	29	.0	4.6
-2	.0	.0	.0	.0	.0	.0	1.4	2.4	1.1	.0	.0	.0	31	.0	4.9
-3	.0	.0	.0	.0	.0	.0	2.5	3.0	.5	.0	.0	.0	38	.0	6.0
-4	.0	.0	.0	.0	.0	.2	3.5	3.2	.3	.0	.0	.0	45	.0	7.1
-5	.0	.0	.0	.0	.0	.3	5.1	1.3	.0	.5	.0	.0	46	.0	7.3
-6	.0	.0	.0	.0	.0	.5	2.2	.5	.3	.2	.0	.0	23	.2	3.5
-7/-8	.0	.0	.0	.0	.0	5.1	3.6	1.3	.3	.0	.0	.0	65	.3	10.0
-9/-10	.0	.0	.0	.0	1.9	4.6	1.9	.2	.3	.0	.0	.0	56	.0	8.8
-11/-13	.0	.0	.0	.5	2.7	2.2	.5	.3	.0	.0	.0	.0	39	.0	6.2
-14/-16	.0	.0	.0	2.4	2.8	.5	.3	.0	.0	.0	.0	.0	38	.0	6.0
-17/-19	.0	.0	1.4	1.9	1.1	.0	.0	.0	.0	.0	.0	.0	28	.0	4.4
-20/-22	.0	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.8
-23/-25	.0	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.6
-26/-30	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.3
TOTAL	1	5	13	31	54	85	135	148	106	42	10	3	633	21	612
PCT	.2	.8	2.1	4.9	8.5	13.4	21.3	23.4	16.7	6.6	1.6	.5	100.0	3.3	96.7

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	.3	.0	.0	.0	.9
1-2	.3	.3	.6	.0	.0	.0	1.3
3-4	.0	.7	.9	.3	.0	.0	1.8
5-6	.0	.0	.8	.3	.0	.0	1.3
7	.0	.3	.7	1.0	.3	.0	2.3
8-9	.0	.0	.3	.3	.0	.0	.7
10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.3	.3	.0	.7
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	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	1.9	3.8	2.5	1.3	.0	9.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.3	.0	.0	.0	1.9
1-2	.0	.4	.9	.0	.0	.0	1.3
3-4	.0	.3	1.4	.1	.0	.0	1.9
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.4	.1	.4	.1	.0	1.0
8-9	.0	.0	.0	.0	.3	.0	.3
10-11	.0	.0	.0	1.0	.0	.0	1.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
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
TOT PCT	.0	2.7	3.2	1.5	.5	.3	8.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.3	.0	.0	.0	.0	1.5
1-2	.0	.6	.6	.0	.0	.0	1.2
3-4	.0	.3	1.0	.6	.0	.0	2.0
5-6	.0	.3	1.2	.0	.0	.0	1.5
7	.0	.0	.6	1.8	.9	.0	3.3
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.3	.3	.3	.0	.9
12	.0	.0	.3	.0	.0	.0	.3
13-16	.0	.0	.0	.3	.3	.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	.3	.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	2.6	4.1	3.7	1.5	.3	12.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.0	.0	.0	.0	.0	.1
1-2	.0	.1	.7	.0	.0	.0	.8
3-4	.0	.3	.7	.0	.0	.0	1.0
5-6	.0	.0	.1	.3	.0	.0	.4
7	.0	.0	1.0	.2	.0	.0	1.2
8-9	.0	.0	.0	.0	.3	.0	.3
10-11	.0	.0	.0	.1	.1	.0	.2
12	.0	.0	.0	.0	.0	.3	.3
13-16	.0	.0	.0	.3	.3	.3	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	.1	.4	2.5	.9	.8	.7	5.4

PERIOD: (OVER-ALL) 1963-1971

FEBRUARY

TABLE 18 (CONT)

AREA 0006 CABOT STRAIT
46.8N 58.3W

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	.3	.0	.0	.0	.7
1-2	.0	1.2	.3	.0	.0	.0	1.4
3-4	.0	.0	.3	.6	.0	.0	.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.3	.0	.0	.0	.3
13-16	.0	.0	.0	.0	.3	.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	1.5	2.0	.6	.3	.0	4.4

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	.8	1.4	.0	.0	.0	2.2
3-4	.3	.7	2.1	.4	.0	.0	3.6
5-6	.0	.0	.8	.1	.0	.0	.9
7	.0	.0	.8	1.4	.0	.0	2.1
8-9	.0	.0	1.0	.0	.0	.0	1.0
10-11	.0	.0	.0	.7	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.3	1.4	.2	.1	2.0
17-19	.0	.0	.0	.3	.3	.0	.7
20-22	.0	.0	.0	.0	.3	.3	.7
23-25	.0	.0	.0	.0	.1	.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	1.8	6.5	4.3	.9	.4	14.2

W

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	.3	.0	.0	.0	.7
3-4	.0	.3	1.8	.7	.0	.0	2.8
5-6	.0	.0	.5	1.1	.3	.0	1.9
7	.0	.0	1.5	1.9	.7	.0	4.1
8-9	.0	.0	.3	1.7	1.0	.0	3.0
10-11	.0	.0	.3	1.7	.0	.0	2.0
12	.0	.0	.0	.3	.3	.0	.6
13-16	.0	.0	.0	1.6	2.9	.6	5.1
17-19	.0	.0	.0	.9	.3	.0	1.3
20-22	.0	.0	.0	.0	.7	.0	.7
23-25	.0	.0	.0	.3	.3	.7	1.3
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	.0	1.4	4.8	10.2	6.5	1.3	24.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.4	.4	.0	.0	.0	1.8	
1-2	.0	.3	1.0	.0	.0	.0	1.4	
3-4	.0	1.4	2.6	.8	.0	.0	4.8	
5-6	.0	.7	1.3	1.4	.1	.0	3.4	
7	.0	.3	1.1	2.2	.3	.0	4.0	
8-9	.0	.0	.1	1.4	.0	.0	1.4	
10-11	.0	.0	.0	.3	.3	.0	.7	
12	.0	.0	.0	.1	.3	.0	.4	
13-16	.0	.0	.0	.4	.7	.0	1.1	
17-19	.0	.0	.0	.4	.7	.0	1.1	
20-22	.0	.0	.0	.0	.3	.3	.7	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.1	6.5	7.0	2.8	.3	20.7	99.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.0	6.1	1.4	.0	.0	.0	8.5	
1-2	.3	4.1	5.8	.0	.0	.0	10.2	
3-4	.3	4.1	10.9	9.4	.0	.0	18.7	
5-6	.0	1.0	5.1	3.4	.3	.0	9.9	
7	.0	1.0	5.8	8.8	2.4	.0	18.0	
8-9	.0	.0	2.0	3.7	1.7	.0	7.5	
10-11	.0	.0	1.4	4.1	.7	.0	6.1	
12	.0	.0	.7	.7	1.0	.3	2.7	
13-16	.0	.0	.3	4.1	5.4	1.0	10.9	
17-19	.0	.0	.0	1.7	1.4	.0	3.1	
20-22	.0	.0	.0	.3	1.4	1.0	2.7	
23-25	.0	.0	.0	.3	.3	1.0	1.7	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								294
TOT PCT	1.7	16.3	33.3	30.6	14.6	3.4	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	3.7	9.4	6.7	6.2	.5	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	127	4
6-7	.0	.5	3.0	6.9	9.0	3.9	2.1	.9	3.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	114	8
8-9	.0	.2	.9	.5	4.4	1.8	3.0	1.1	2.3	2.8	.5	1.1	.0	.0	.0	.0	.0	.0	.0	81	11
10-11	.0	.0	.5	.2	1.1	2.5	.5	.0	.9	.5	.5	.2	.0	.0	.0	.0	.0	.0	.0	30	10
12-13	.0	.0	.2	.0	.2	.5	.2	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	8	11
>13	.0	.0	.0	.0	.5	.0	.2	.0	.5	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	9	16
INDET	1.8	.7	3.9	.9	1.8	.7	.7	.9	2.1	.7	.5	.0	.0	.9	.0	.0	.0	.0	.0	67	9
TOTAL	13	22	78	66	84	43	34	14	39	18	11	8	2	4	0	0	0	0	0	436	8
PCT	3.0	5.0	17.9	15.1	19.3	9.9	7.8	3.2	8.9	4.1	2.5	1.8	.5	.9	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1964-1971
(OVER-ALL) 1893-1971

AREA 0006 CABOT STRAIT
46.8N 58.8W

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	5.6	.9	2.6	.0	14.7	.0	.0	23.4	1.5	.0	5.0	.5	.5		.0	69.2
NE	1.2	.2	4.4	.0	13.6	.8	.0	20.0	2.6	.0	11.4	.4	1.8		.0	63.7
E	6.8	1.5	3.8	2.5	17.1	1.7	.0	33.3	5.1	.0	6.1	.4	1.5		.0	53.6
SE	8.1	.6	2.3	1.2	14.1	1.2	.0	27.4	.0	.0	17.3	.0	2.6		.0	52.7
S	1.9	.8	3.7	.0	13.0	.0	.0	19.3	1.9	.0	17.7	.0	2.9		.0	58.2
SW	1.9	.0	.0	.0	11.8	.9	.0	14.4	1.9	.0	9.3	.0	.0		.0	74.4
W	1.3	.4	.0	.3	19.3	.0	.0	21.1	1.6	.0	1.1	.0	.5		.5	75.3
NW	3.4	.1	1.2	.0	16.7	.5	.5	20.8	2.4	.0	2.0	.0	.5		.0	74.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	11.1	.0	.0	.0	.0	.0	11.1	.0	.0	16.7	.0	.0		.0	72.2
TOT PCT	3.5	.7	2.0	.4	15.3	.5	.1	22.1	2.1	.0	7.2	.2	1.0		.1	67.4
TOT OBS:	1159															

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	4.6	.0	2.7	.4	13.8	.4	.0	21.2	1.2	.0	6.2	.4	1.5		.0	69.6
06&09	6.3	3.2	.8	.8	15.1	1.6	.0	26.2	4.0	.0	7.1	.0	.0		.0	62.7
12&15	1.6	.5	1.8	.5	14.8	.5	.3	20.1	1.3	.0	8.6	.3	1.0		.0	68.8
18&21	3.7	.5	2.0	.2	16.7	.2	.0	23.2	2.7	.0	6.5	.0	1.0		.2	66.3
TOT PCT	3.5	.7	2.0	.4	15.3	.5	.1	22.0	2.0	.0	7.2	.2	1.0		.1	67.5
TOT OBS:	1171															

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	4.3	8.1	3.3	1.1	.2		17.1	17.6	19.7	23.0	11.3	20.0	15.7	22.3	13.7	19.4
NE	.2	2.8	4.6	2.2	.7	.1		10.6	17.0	13.1	8.1	8.0	12.5	10.1	7.0	11.7	13.0
E	.1	2.4	3.7	2.5	1.5	.1		10.3	20.2	12.1	7.8	19.3	12.5	9.7	9.9	7.5	7.8
SE	.1	2.2	3.4	1.3	.4	*		7.4	15.6	4.7	4.7	13.5	7.5	7.8	4.7	8.5	8.0
S	.3	2.8	3.3	1.3	.4	.0		8.1	15.6	9.0	11.8	9.3	2.5	9.2	7.2	7.0	6.0
SW	.5	3.0	4.8	1.5	.3	.0		10.2	15.1	10.0	9.1	9.1	15.0	10.9	8.5	10.6	10.6
W	.5	2.8	6.9	5.0	2.0	.5		17.7	21.0	16.4	15.5	15.0	17.5	15.9	22.5	18.6	20.0
NW	.5	3.2	6.9	4.6	1.6	*		16.8	19.3	14.5	18.6	12.6	12.5	17.1	18.0	20.0	15.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0	.5	1.4	1.7	.0	3.6	.0	2.5	.0
TOT OBS	48	282	500	260	96	11	1197		17.9	198	74	115	20	248	139	278	125
TOT PCT	4.0	23.6	41.8	21.7	8.0	.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	1.5	7.8	5.2	2.2	.5		17.1	17.6	20.6	12.6	18.1	15.4
NE	1.0	5.5	2.6	1.2	.4		10.6	17.0	11.8	8.7	9.0	12.1
E	1.0	3.6	3.3	1.8	.6		10.3	20.2	10.9	18.3	9.8	7.6
SE	.7	4.2	2.0	.5	*		7.4	15.6	4.7	12.6	6.7	8.3
S	1.0	4.0	2.1	1.0	.0		8.1	15.6	9.7	8.3	8.5	6.7
SW	2.0	3.4	4.1	.7	.0		10.2	15.1	9.7	10.0	10.0	10.6
W	1.0	6.4	5.8	3.6	.9		17.7	21.0	16.2	15.4	18.3	19.0
NW	1.3	6.0	6.2	3.2	.3		16.8	19.3	15.6	12.6	17.4	18.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	.7	1.5	2.3	1.7
TOT OBS	134	488	375	168	32	1197		17.9	272	195	387	403
TOT PCT	11.2	40.8	31.3	14.0	2.7		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1964-1971
(OVER-ALL) 1893-1971

AREA 0006 CAROT STRAIT
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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	.7	2.6	26.5	43.4	17.3	8.5	1.1	17.2	100.0	272
06&09	1.5	.0	24.4	38.5	26.7	8.1	.7	18.7	100.0	135
12&15	2.3	3.1	25.8	39.5	22.5	5.9	.8	17.1	100.0	387
18&21	1.7	2.2	19.1	43.9	22.3	9.7	1.0	18.8	100.0	403
TOT	20	28	282	500	260	96	11	17.9		1197
PCT	1.7	2.3	23.6	41.8	21.7	8.0	.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	3.0	1.2	5.3	8.8		6.0
NE	1.5	.8	2.0	6.9		6.3
E	.8	.5	1.2	7.3		6.9
SE	.6	.6	1.2	5.2		6.7
S	1.5	.9	1.3	4.4		5.8
SW	2.8	1.5	2.3	3.5		4.9
W	6.1	2.6	4.4	4.8		4.5
NW	4.7	2.0	4.8	4.7		4.8
VAR	.0	.0	.0	.0		.0
CALM	.5	.0	.0	.3		3.6
TOT OBS	219	104	229	469	1021	5.6
TOT PCT	21.4	10.2	22.4	45.9	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	300 499	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	2.1	.9	1.0	1.9	2.7	2.1	.2	.3	.3	.4	7.1	
NE	2.0	.4	*	.7	1.8	1.7	.2	.4	.3	.1	3.4	
E	1.9	.1	.1	1.2	1.8	1.0	.2	.6	.3	.2	2.4	
SE	1.9	.1	.1	.4	1.2	.6	.1	*	.5	.3	2.2	
S	1.6	.1	.1	.5	.9	.8	.1	.2	.2	.1	3.5	
SW	.8	*	.1	.5	1.0	.8	.2	.3	.4	.2	5.6	
W	.8	.1	.3	1.6	2.6	1.7	.2	.4	.3	.2	9.7	
NW	.8	.0	.4	.7	2.3	2.2	.6	.7	.2	.2	8.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.0	.0	.0	.0	.1	.1	.0	.5	
TOT OBS	123	11	22	77	146	113	19	32	27	18	433	1021
TOT PCT	12.0	1.1	2.2	7.5	14.3	11.1	1.9	3.1	2.6	1.8	42.4	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	4.1	4.4	4.4	4.4	4.4	4.4	4.4
* OR >5000	2.4	6.7	7.5	7.5	7.5	7.5	7.5	7.5
* OR >3500	3.3	8.6	9.4	9.4	9.4	9.4	9.4	9.4
* OR >2000	6.8	18.0	20.0	20.4	20.4	20.4	20.4	20.4
* OR >1000	12.4	28.1	32.9	34.2	34.6	34.7	34.7	34.7
* OR >600	13.6	31.8	38.9	40.9	41.8	42.2	42.2	42.2
* OR >300	13.8	32.6	40.3	42.6	43.8	44.3	44.3	44.3
* OR >150	13.8	32.8	40.9	43.4	44.7	45.3	45.4	45.4
* OR > 0	13.8	32.9	42.6	46.9	50.1	53.5	56.9	57.3
TOTAL	142	339	438	483	516	551	585	590

TOTAL NUMBER OF OBS: 1029 PCT FREQ NH <5/8: 42.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
13.9	11.0	6.8	6.5	3.7	4.1	5.0	8.4	29.0	11.6	1052

PERIOD: (PRIMARY) 1964-1971
(OVER-ALL) 1893-1971

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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
	PCP	1.0	.5	.6	.4	.6	.9	.0	.2	.0	.0	3.4	
<1/2	NO PCP	.3	.8	.2	1.0	.7	.5	*	.1	.0	.1	3.6	
	TOT %	1.3	1.2	.8	1.4	1.2	.7	*	.3	.0	.1	7.0	
	PCP	.4	.2	.6	.2	.3	.2	.4	.2	.0	.0	2.5	
1/2<1	NO PCP	.1	.2	.5	.1	.2	.1	.1	*	.0	.0	1.1	
	TOT %	.5	.4	1.0	.3	.5	.2	.5	.3	.0	.0	3.6	
	PCP	.5	.1	.6	.6	.0	.2	.9	.5	.0	.0	3.3	
1<2	NO PCP	.1	.3	.3	.1	.2	.9	.0	*	.0	.0	1.2	
	TOT %	.6	.3	.9	.7	.2	.4	.9	.5	.0	.0	4.5	
	PCP	1.5	.8	1.5	.7	.5	.2	1.1	1.5	.0	.0	7.8	
2<5	NO PCP	.7	.4	.8	.3	.6	.2	.2	.8	.0	.0	4.0	
	TOT %	2.2	1.2	2.3	1.0	1.2	.4	1.4	2.3	.0	.0	11.8	
	PCP	.7	.7	.3	.2	.2	.6	1.0	1.0	.0	.1	4.8	
5<10	NO PCP	6.2	2.8	2.5	1.8	2.7	3.6	5.8	4.4	.0	.3	29.9	
	TOT %	6.9	3.5	2.8	2.0	2.9	4.2	6.6	5.5	.0	.3	34.7	
	PCP	.0	*	.1	.0	.0	.1	.2	.1	.0	.1	.6	
10+	NO PCP	5.8	4.2	2.6	2.2	2.1	3.9	8.2	7.7	.0	1.0	37.7	
	TOT %	5.8	4.2	2.7	2.2	2.1	4.0	8.4	7.8	.0	1.1	38.3	
	TOT OBS												1165
	TOT PCT	17.3	10.8	10.4	7.6	8.1	10.0	17.8	16.5	.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
	0-3	.0	.0	.0	.1	.1	.0	.0	.1	.0	.1	.3	
<1/2	4-10	.6	.5	.3	.3	.1	.4	.0	.1	.0		2.3	
	11-21	.3	.4	.2	.6	.5	.1	.0	.1	.0		2.1	
	22+	.4	.4	.3	.4	.5	.2	*	*	.0		2.2	
	TOT %	1.3	1.2	.7	1.4	1.2	.7	*	.3	.0	.1	6.9	
	0-3	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	
1/2<1	4-10	.1	.3	.2	.0	.0	.0	.1	*	.0		.7	
	11-21	.1	.1	.3	.2	.1	.2	.2	*	.0		1.3	
	22+	.1	.0	.5	.1	.3	*	.2	.2	.0		1.5	
	TOT %	.4	.4	1.0	.3	.4	.2	.5	.3	.0	.0	3.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.4	.1	.0	.1	.1	.0	.1	.0	.0		.8	
	11-21	.1	.2	.5	.4	.1	.3	.2	.1	.0		1.8	
	22+	.1	*	.4	.2	.1	.1	.7	.4	.0		1.9	
	TOT %	.6	.3	.9	.7	.2	.4	.9	.5	.0	.0	4.5	
	0-3	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.2	
2<5	4-10	.6	.5	.2	.3	.5	.1	.2	.2	.0		2.6	
	11-21	1.0	.4	.8	.4	.3	.2	.1	.9	.0		4.0	
	22+	.6	.1	1.3	.4	.4	.1	.9	1.2	.0		4.9	
	TOT %	2.2	1.1	2.3	1.0	1.2	.4	1.3	2.2	.0	.0	11.7	
	0-3	.0	.1	*	.0	.0	.2	.2	.2	.0	.3	1.0	
5<10	4-10	.9	.5	.8	.9	1.0	1.0	.7	.5	.0		6.3	
	11-21	3.4	1.8	1.1	.6	1.4	2.2	2.2	2.0	.0		14.7	
	22+	2.5	1.0	.8	.4	.4	.8	3.5	2.6	.0		12.0	
	TOT %	6.8	3.4	2.7	1.9	2.9	4.2	6.5	5.4	.0	.3	34.0	
	0-3	.0	*	.1	*	.2	.3	.1	.3	.0	1.2	2.3	
10+	4-10	1.7	1.0	.9	.7	1.0	1.5	1.8	2.4	.0		11.1	
	11-21	3.4	1.8	.9	1.3	.9	1.9	4.2	3.7	.0		18.0	
	22+	.9	1.5	.9	.2	.0	.5	2.2	1.8	.0		8.1	
	TOT %	6.0	4.2	2.7	2.3	2.1	4.3	8.4	8.2	.0	1.2	39.4	
	TOT OBS												1191
	TOT PCT	17.2	10.7	10.3	7.5	8.1	10.1	17.7	16.8	.0	1.6	100.0	

MARCH

PERIOD: (PRIMARY) 1964-1971
(OVER-ALL) 1893-1971

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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	10.2	1.3	3.4	8.5	12.8	10.6	1.3	.4	.9	1.7	51.1	48.9	235
06&09	12.3	.0	.0	9.4	20.8	9.4	4.7	.0	.9	.9	58.5	41.5	106
12&15	12.8	.9	2.7	7.1	14.3	10.7	.3	3.3	2.7	3.3	58.0	42.0	336
18&21	12.1	1.4	1.4	6.5	13.8	11.8	3.1	5.6	4.2	.6	60.4	39.6	356
TOT	123	11	22	77	149	113	20	32	27	18	592	441	1033
PCT	11.9	1.1	2.1	7.5	14.4	10.9	1.9	3.1	2.6	1.7	57.3	42.7	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	6.6	2.2	3.7	12.1	34.6	40.8	272
06&09	5.9	5.1	5.1	12.5	22.8	48.5	136
12&15	8.2	4.1	3.6	11.8	33.5	38.9	391
18&21	6.2	3.5	4.9	10.6	37.0	36.8	405
TOT	83	43	55	139	406	478	1204
PCT	6.9	3.6	4.6	11.5	33.7	39.7	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 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	10.3	16.2	31.2	22.2	46.6	234
06&09	13.3	16.2	35.2	27.6	37.1	105
12&15	12.8	18.5	32.2	27.8	40.0	335
18&21	12.1	16.3	30.1	32.4	37.5	359
TOT	124	175	325	289	415	1029
PCT	12.1	17.0	31.6	28.1	40.3	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
45/49	.0	.0	.0	.0	.0	.1	.4	.0	4	.5
40/44	.0	.0	.0	.0	.6	.4	.5	.9	19	2.3
35/39	.0	.0	.0	.0	.6	1.7	5.1	10.2	143	17.6
30/34	.0	.0	.1	.6	1.4	4.4	12.0	21.0	320	39.5
25/29	.0	.0	.1	.1	1.8	4.3	7.4	7.4	172	21.2
20/24	.0	.0	.1	.4	1.5	2.8	3.2	3.7	95	11.7
15/19	.0	.0	.0	.4	1.4	.9	2.1	.7	44	5.4
10/14	.0	.0	.0	.0	.2	.4	.6	.4	13	1.6
5/9	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	0	3	12	61	122	254	359	811	100.0
PCT	.0	.0	.4	1.5	7.5	15.0	31.3	44.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.2	.2	.0	.0	.1	.0	.0
	.1	.4	.4	.4	.2	.4	.2	.2	.0	.0
	4.1	1.7	1.0	2.1	3.3	2.3	1.4	1.6	.0	.1
	8.8	5.7	3.6	3.0	3.5	4.1	5.9	4.7	.0	.1
	4.3	1.8	1.7	1.5	1.5	1.2	4.9	4.1	.0	.1
	2.3	1.5	.3	.8	.2	1.3	3.6	1.8	.0	.0
	.6	.2	.3	.0	.3	.8	2.1	.9	.0	.1
	.2	.2	.0	.0	.1	.2	.5	.5	.0	.0
	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
	20.4	11.5	7.3	8.0	9.3	10.5	18.6	13.9	.0	.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	48	41	37	31	19	12	11	29.3	269
06&09	47	46	37	31	20	14	14	30.5	136
12&15	49	42	38	31	18	11	9	29.8	388
18&21	46	43	40	32	20	15	13	31.0	401
TOT	49	43	38	31	18	14	9	30.2	1194

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	6.1	15.0	28.2	49.8	87	213
06&09	.0	2.5	7.4	11.1	28.4	50.6	86	81
12&15	.0	1.9	7.5	15.7	32.5	42.5	86	268
18&21	.0	2.7	8.5	16.2	32.3	40.4	85	260
TOT	0	16	61	125	254	366	86	822

PERIOD: (PRIMARY) 1964-1971
(OVER-ALL) 1893-1971

AREA 0006 CABOT STRAIT
46.8N 58.8W

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	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WU FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.8	.3	7	.0	1.1
9/10	.0	.0	.0	.0	.0	.0	.0	.6	.6	.0	8	.3	.9
7/8	.0	.0	.0	.0	.0	.0	.0	2.4	.5	.2	19	.9	2.1
6	.0	.0	.0	.0	.0	.0	.8	.5	.3	.2	11	.5	1.3
5	.0	.0	.0	.0	.0	.0	1.6	1.3	.2	.0	19	.9	2.1
4	.0	.0	.0	.0	.0	.0	3.9	.9	.2	.0	32	.9	4.1
3	.0	.0	.0	.0	.0	1.4	5.0	.9	.0	.0	47	1.3	6.1
2	.0	.0	.0	.0	.0	2.8	3.2	.3	.0	.0	40	.3	6.0
1	.0	.0	.0	.0	.0	4.9	3.6	.3	.0	.0	56	.9	7.9
0	.0	.0	.0	.0	.2	6.2	3.0	.0	.0	.0	59	.0	9.3
-1	.0	.0	.0	.0	1.3	7.4	1.7	.0	.0	.0	66	.0	10.4
-2	.0	.0	.0	.0	2.4	5.2	.6	.0	.0	.0	52	.3	7.9
-3	.0	.0	.0	.0	3.5	3.2	.2	.0	.0	.0	43	.0	6.8
-4	.0	.0	.0	.0	3.8	1.3	.2	.0	.0	.0	33	.0	5.2
-5	.0	.0	.0	1.4	3.0	.8	.0	.0	.0	.0	33	.2	5.0
-6	.0	.0	.0	1.9	.9	.2	.0	.0	.0	.0	19	.0	3.0
-7/-8	.0	.0	.0	2.7	1.3	.2	.0	.0	.0	.0	26	.2	3.9
-9/-10	.0	.0	.8	1.6	.9	.0	.0	.0	.0	.0	21	.0	3.3
-11/-13	.0	.0	2.7	1.1	.2	.3	.0	.0	.0	.0	27	.2	4.1
-14/-16	.0	.8	.6	.2	.0	.0	.0	.0	.0	.0	10	.0	1.6
-17/-19	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	5	.0	.4
-20/-22	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	2	8	27	56	110	214	151	46	16	4	834	44	590
PCT	.3	1.3	4.3	8.8	17.4	33.8	23.8	7.3	2.5	.6	100.0	6.9	93.1

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	1.4	.3	.0	.0	.0	1.7
1-2	.0	1.0	.4	.0	.0	.0	1.4
3-4	.0	.0	1.4	.3	.0	.0	1.7
5-6	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	.8	.6	.0	.0	1.4
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.0	.3	.0	.3
13-16	.0	.0	.0	.4	.4	.0	.8
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	.0	2.4	4.8	1.7	1.0	.0	9.9

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	1.6	.5	.0	.0	.0	2.1
3-4	.0	.9	3.5	.0	.0	.0	4.4
5-6	.0	.0	1.0	.8	.0	.0	1.8
7	.0	.0	.4	1.9	.0	.0	2.3
8-9	.0	.0	.0	.0	.8	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.5	.0	.0	.5
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.1	.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	.0	2.5	5.4	3.2	1.1	.0	12.2

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	1.3	1.4	.0	.0	.0	2.7
3-4	.0	.3	.7	1.2	.0	.0	2.2
5-6	.0	.0	1.1	.0	.0	.0	1.1
7	.0	.0	.0	1.8	.0	.0	1.8
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.4	.4	.0	.0	.8
12	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.7	.7	.0	1.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	1.1	.3	1.4
23-25	.0	.0	.0	.0	.4	.0	.4
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	2.6	3.6	4.8	2.6	.3	13.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.5	.0	.0	.0	.7
1-2	.1	1.2	3.7	.0	.0	.0	5.0
3-4	.0	.4	1.3	.8	.0	.0	2.5
5-6	.0	.1	.4	.5	.9	.0	1.9
7	.0	.0	.0	.9	.0	.0	.9
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.4	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.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	.1	1.9	5.9	2.3	1.4	.1	11.7

PERIOD: (OVER-ALL) 1963-1971

MARCH

TABLE 18 (CONT)

AREA 0006 CABOT STRAIT
46.8N 58.8W

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	.3	.0	.0	.0	.6	.8	.9	.1	.0	.0	.0	1.8
1-2	.7	1.1	.4	.0	.0	.0	2.2	.4	2.1	.2	.0	.0	.0	2.7
3-4	.0	.4	1.4	.0	.0	.0	1.8	.0	.8	1.7	.9	.0	.0	3.4
5-6	.0	.3	1.4	.3	.3	.0	2.3	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	1.2	.4	.0	.0	1.6
8-9	.0	.0	.4	.8	.0	.0	1.2	.0	.1	.4	.4	.4	.0	1.3
10-11	.0	.0	.0	.4	.0	.0	.4	.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	.1	.0	.0	.1
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	.7	2.1	4.3	1.8	.3	.0	9.2	1.2	3.9	4.2	1.9	.9	.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	.0	1.2	.6	.0	.0	.0	1.8	.4	1.4	1.0	.0	.0	.0	2.8	
1-2	.0	.8	2.2	.0	.0	.0	3.0	.0	1.3	.4	.0	.0	.0	1.7	
3-4	.0	.4	3.4	1.0	.0	.0	4.8	.0	.0	3.0	1.0	.0	.0	4.0	
5-6	.0	.0	1.1	1.9	.0	.0	3.0	.0	.0	2.5	.5	.0	.0	3.0	
7	.0	.0	1.1	.8	.0	.0	1.9	.0	.0	.9	.0	.0	.0	.9	
8-9	.0	.3	.0	.0	.3	.0	.6	.0	.0	.0	.0	.1	.0	.1	
10-11	.0	.0	.0	.7	.6	.0	1.3	.0	.0	.0	.0	.2	.0	.2	
12	.0	.0	.0	.4	.4	.0	.8	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.7	.0	.7	.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	2.7	8.4	4.8	2.4	.0	18.3	.4	2.7	7.8	1.5	.3	.0	12.7	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	1.6	6.4	2.8	.0	.0	.0	10.8	
1-2	1.2	10.4	9.2	.0	.0	.0	20.8	
3-4	.0	3.2	16.4	5.2	.0	.0	24.8	
5-6	.0	.4	9.6	4.0	1.2	.0	15.2	
7	.0	.0	4.8	6.4	.0	.0	11.2	
8-9	.0	.4	.8	2.0	1.6	.0	4.8	
10-11	.0	.0	.8	1.6	1.2	.0	3.6	
12	.0	.0	.0	.8	.8	.0	1.6	
13-16	.0	.0	.0	2.0	1.6	.0	3.6	
17-19	.0	.0	.0	.0	1.2	.0	1.2	
20-22	.0	.0	.0	.0	1.2	.4	1.6	
23-25	.0	.0	.0	.0	.4	.0	.4	
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	
								250
TOT PCT	2.8	20.8	44.4	22.0	9.6	.4	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	3.4	12.6	15.7	8.2	2.1	1.0	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	173	3
6-7	.0	1.0	2.6	5.9	4.6	3.4	1.0	.5	1.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	7
8-9	.3	.8	1.5	1.5	1.3	1.0	1.8	1.5	1.5	.5	.5	.0	.5	.0	.0	.0	.0	.0	.0	50	9
10-11	.0	.3	.0	.0	.3	.5	.3	.5	.8	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	13	12
12-13	.0	.0	.0	.0	.0	.0	.3	.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	2.6	.8	2.8	1.3	4.1	1.3	1.3	1.5	.3	.3	.8	.3	.3	.0	.0	.0	.0	.0	.0	68	7
TOTAL	24	60	88	66	48	28	23	17	17	6	7	1	3	0	0	0	0	0	0	388	6
PCT	6.2	15.5	22.7	17.0	12.4	7.2	5.9	4.4	4.4	1.5	1.8	.3	.8	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1956-1970
(OVER-ALL) 1887-1970

AREA 0006 CABOT STRAIT
46.8N 58.4W

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	3.6	.0	.4	1.2	13.8	.0	.0	17.9	2.5	.0	9.0	.0	.0		.0	70.6
NE	5.0	.8	3.6	.2	12.0	.0	.0	21.2	1.9	.0	13.0	.0	.2		.0	63.7
E	10.4	2.2	5.1	.9	5.8	.0	.0	23.1	2.6	.0	15.0	.0	1.9		.0	57.4
SE	11.7	.8	5.1	1.2	2.5	.0	.2	20.5	2.5	.0	34.4	1.6	.0		.0	41.0
S	8.5	.5	3.4	.0	6.1	.0	.5	17.9	.7	.0	20.2	.0	1.2		.0	60.0
SW	5.2	1.2	.0	.0	4.3	.0	.0	10.1	1.3	.0	15.4	1.3	.9		.0	70.9
W	.4	.4	.4	.0	10.3	.0	.0	10.8	3.4	.0	7.2	.3	1.5		.0	76.8
NW	1.2	.8	.4	.1	11.3	.8	.4	13.9	2.6	.0	3.6	.4	.1		.0	79.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	7.5	.0	2.5	.0	.0	10.0	2.5	.0	12.5	.0	5.0		.0	70.0
TOT PCT	4.8	.8	2.0	.4	8.7	.1	.1	16.0	2.3	.0	12.9	.4	.8		.0	67.6
TOT OBS:	1444															

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	.3	2.9	1.3	7.7	.0	.3	16.0	2.9	.0	12.8	.6	.6		.0	67.1
06&09	6.3	1.3	1.3	.0	6.7	.0	.0	14.7	2.2	.0	10.3	.4	.0		.0	72.3
12&15	2.9	.2	1.7	.2	9.1	.4	.2	14.1	2.5	.0	13.3	.6	.4		.0	69.2
18&21	5.7	1.3	2.0	.2	9.9	.0	.0	18.1	1.8	.0	13.5	.0	1.8		.0	64.9
TOT PCT	4.7	.7	2.0	.4	8.7	.1	.1	15.8	2.3	.0	12.8	.4	.8		.0	67.9
TOT OBS:	1473															

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	4.5	4.5	3.0	1.2	.0		15.9	16.5	20.8	19.8	12.5	9.0	15.6	13.3	14.9	19.0
NE	.3	3.2	3.2	1.2	.2	.0		8.1	14.1	7.6	4.4	9.9	4.3	11.2	7.0	7.4	4.6
E	.3	3.2	3.3	2.2	.8	.1		9.9	16.8	7.2	7.9	8.1	10.6	11.6	13.6	10.9	6.3
SE	.3	3.2	3.3	1.6	.1	.2		8.6	14.9	6.2	17.1	7.8	12.2	8.3	8.1	8.6	11.5
S	1.2	3.6	4.0	1.3	.1	.0		10.1	12.7	9.2	13.5	8.7	11.2	8.7	9.7	11.3	13.9
SW	.3	3.8	5.5	1.7	.4	.1		11.7	14.8	10.0	14.7	18.1	12.2	13.4	10.1	8.1	11.5
W	.6	4.6	6.3	3.5	.9	.0		16.0	16.2	16.3	9.9	17.5	18.6	13.4	17.2	16.5	19.2
NW	.3	4.2	6.6	4.2	1.5	.1		16.8	18.6	18.1	6.3	15.2	17.6	16.9	19.0	18.6	13.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8							2.8	.0	4.7	6.3	2.2	4.3	.9	1.9	3.7	1.0
TOT OBS	102	452	978	280	76	5	1493		15.5	298	63	186	47	329	154	352	104
TOT PCT	6.8	30.3	34.7	18.8	5.1	.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	2.2	6.9	4.5	2.0	.3		15.9	16.5	20.8	11.8	14 9	15.8
NE	1.4	3.9	2.2	.6	.0		8.1	14.1	6.9	8.8	9.8	6.7
E	1.3	4.2	2.9	1.3	.1		9.9	16.8	7.3	8.6	12.2	9.8
SE	1.2	4.0	3.1	.2	.2		8.6	14.9	8.3	8.7	8.2	9.3
S	2.7	4.6	2.5	.4	.0		10.1	12.7	10.0	9.2	9.0	11.9
SW	1.8	6.1	2.8	.9	.1		11.7	14.8	10.9	17.0	12.4	8.9
W	2.8	6.4	4.7	2.1	.0		16.0	16.2	15.0	17.7	14.6	17.2
NW	2.0	6.2	5.3	3.0	.4		16.8	18.6	15.8	15.7	17.6	17.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.8						2.8	.0	5.0	2.6	1.2	3.1
TOT OBS	270	630	418	159	16	1493		15.5	321	293	483	456
TOT PCT	18.1	42.2	28.0	10.6	1.1		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1958-1970
(OVER-ALL) 1887-1970

AREA 0006 CABOT STRAIT
46.8N 58.4W

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	5.0	5.6	28.3	42.1	15.0	4.0	.0	14.2	100.0	321
06&09	2.6	3.4	33.9	42.5	15.5	2.1	.0	13.8	100.0	233
12&15	1.2	3.9	30.2	39.8	18.8	5.6	.4	15.9	100.0	483
18&21	3.1	3.3	29.8	33.3	23.0	6.8	.7	16.6	100.0	456
TOT	42	60	452	578	280	76	5	15.5		1493
PCT	2.8	4.0	30.3	38.7	18.8	5.1	.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	4.7	1.3	2.4	8.3		5.3
NE	1.5	.6	1.3	5.1		6.1
E	.9	.1	.9	7.4		7.0
SE	.9	.6	1.2	4.8		6.5
S	2.4	1.2	1.7	4.8		5.4
SW	4.2	.9	1.4	4.6		4.6
W	6.7	1.8	3.6	4.4		4.1
NW	6.4	2.0	4.7	4.8		4.3
VAR	.0	.0	.0	.0		.0
CALM	.7	.3	.7	1.0		5.1
TOT NOS	338	104	214	539	1195	5.2
TOT PCT	28.3	8.7	17.9	45.1	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	1.2	1.2	1.0	1.5	2.2	1.5	.4	.2	.4	.4	6.9	
NE	.9	.9	.3	1.4	1.2	1.0	.4	.1	.1	.1	2.6	
E	1.7	.1	.3	1.0	1.9	.9	.3	.5	.3	.2	2.1	
SE	1.9	.4	.2	.5	.9	1.0	*	*	.1	.4	1.9	
S	1.9	.4	.1	.3	1.1	.6	.4	.2	.2	.5	4.3	
SW	1.3	.7	.2	.6	1.2	1.0	*	.1	.4	.2	5.8	
W	.4	.0	.3	.9	1.8	1.7	.3	.6	.3	.3	10.1	
NW	.6	.0	.9	.8	2.3	2.1	.4	.5	.4	.4	9.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.4	.4	.2	.1	.2	.0	.0	1.2	
TOT NOS	120	30	38	90	154	120	27	29	28	29	530	1195
TOT PCT	10.0	2.5	3.2	7.5	12.9	10.0	2.3	2.4	2.3	2.4	44.4	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	2.5	4.4	4.8	4.8	4.8	4.8	4.8	4.8
* OR >5000	3.4	6.3	7.0	7.1	7.1	7.1	7.2	7.2
* OR >3500	4.8	8.4	9.3	9.5	9.5	9.5	9.5	9.5
* OR >2000	9.4	16.7	18.8	19.2	19.2	19.3	19.4	19.4
* OR >1000	15.1	26.2	30.7	31.9	32.1	32.2	32.2	32.2
* OR >600	16.9	30.9	37.3	38.9	39.4	39.8	40.0	40.0
* OR >300	17.0	32.3	39.4	41.4	42.2	42.8	43.0	43.0
* OR >150	17.0	32.5	39.7	41.8	42.8	44.8	45.5	45.5
* OR > 0	17.0	32.6	41.8	45.2	47.3	51.6	54.9	55.4
TOTAL	207	397	508	550	575	628	667	674

TOTAL NUMBER OF OBS: 1216 PCT FREQ NH <5/8: 44.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
23.6	7.8	5.7	2.7	3.3	3.1	5.5	6.3	33.0	8.8	1277

PERIOD: (PRIMARY) 1958-1970
(OVER-ALL) 1887-1970

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46.8N 58.4W

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	1.2	.3	.5	.4	.3	.2	.2	.3	.0	.1	3.5	
<1/2	NO PCP	.7	.3	.4	2.0	1.8	1.0	.5	.1	.0	.1	6.9	
	TOT %	1.8	.7	.9	2.3	2.1	1.2	.7	.4	.0	.2	10.4	
	PCP	.3	.1	.0	.1	.3	.1	.1	.2	.0	.0	1.1	
1/2<1	NO PCP	.1	.3	.5	.4	.1	.2	.2	*	.0	.1	1.9	
	TOT %	.4	.4	.5	.5	.4	.3	.3	.2	.0	.1	3.0	
	PCP	.2	.3	.1	.2	.3	.1	.2	.3	.0	.0	1.8	
1<2	NO PCP	.1	.1	.4	.4	.0	.2	.1	.2	.0	.0	1.5	
	TOT %	.4	.4	.5	.6	.3	.3	.4	.5	.0	.0	3.2	
	PCP	1.0	.8	1.1	.6	.5	.8	.5	.7	.0	.1	5.4	
2<5	NO PCP	.7	.6	.8	.4	.8	.7	1.0	.3	.0	.2	5.5	
	TOT %	1.6	1.1	2.0	1.0	1.3	1.0	1.5	1.0	.0	.3	10.9	
	PCP	.1	.2	.5	.3	.4	.4	.4	.7	.0	.0	3.0	
5<10	NO PCP	3.5	1.6	2.7	1.6	2.4	3.6	3.6	3.2	.0	.9	23.1	
	TOT %	3.6	1.8	3.2	1.9	2.8	4.0	4.0	3.8	.0	.9	26.1	
	PCP	.1	.3	.1	.1	.1	.0	.4	.3	.0	.1	1.4	
10+	NO PCP	8.1	3.5	3.1	2.0	3.2	4.7	8.7	10.6	.0	1.2	45.0	
	TOT %	8.1	3.9	3.1	2.1	3.3	4.7	9.1	10.9	.0	1.2	46.4	
	TOT OBS												1447
	TOT PCT	16.0	8.2	10.1	8.4	10.2	11.6	15.9	16.8	.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
	0-3	.1	.0	.0	.1	.2	*	.1	*	.0	.2	.7	
<1/2	4-10	.2	.1	.2	.8	.9	.4	.1	*	.0		2.7	
	11-21	.6	.3	.5	1.0	.7	.7	.3	.1	.0		4.1	
	22+	1.0	.2	.2	.4	.3	.2	.2	.3	.0		2.7	
	TOT %	1.8	.7	.9	2.4	2.1	1.2	.7	.4	.0	.2	10.3	
	0-3	.0	.0	.0	.1	.2	.0	.1	.0	.0	.1	.4	
1/2<1	4-10	.2	.2	.1	*	.1	.1	.1	.0	.0		.8	
	11-21	.1	.2	.2	.2	.2	*	.1	.0	.0		1.0	
	22+	.2	.0	.1	.1	.0	.2	*	.2	.0		.9	
	TOT %	.4	.4	.5	.5	.5	.3	.3	.2	.0	.1	3.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.2	.2	.1	.2	.1	.2	.0		.9	
	11-21	.1	.2	.1	.2	.1	.1	.1	.0	.0		.8	
	22+	.2	.2	.2	.3	.2	*	.2	.3	.0		1.6	
	TOT %	.4	.4	.5	.6	.3	.3	.4	.5	.0	.0	3.3	
	0-3	.1	.1	.0	.0	.1	.0	.1	.0	.0	.3	.6	
2<5	4-10	.1	.3	.4	.4	.5	.2	.2	.2	.0		2.3	
	11-21	.9	.5	.6	.2	.5	.8	.6	.4	.0		4.2	
	22+	.5	.3	1.0	.5	.3	.0	.6	.4	.0		3.5	
	TOT %	1.6	1.1	1.9	1.0	1.3	1.0	1.5	1.0	.0	.3	10.7	
	0-3	.2	.1	.1	*	.3	.1	.1	.1	.0	.9	1.8	
5<10	4-10	1.0	.8	.9	1.0	.5	1.1	1.3	.7	.0		7.3	
	11-21	1.5	.4	1.3	.6	1.3	1.9	1.6	1.2	.0		9.9	
	22+	.9	.4	.8	.3	.5	.8	1.0	1.8	.0		6.7	
	TOT %	3.6	1.8	3.1	1.9	2.7	4.0	4.0	3.8	.0	.9	25.7	
	0-3	.5	.2	.3	*	.4	.1	.2	.2	.0	1.3	3.1	
10+	4-10	3.1	1.7	1.4	.7	1.5	1.9	2.9	3.0	.0		16.2	
	11-21	3.4	1.6	.7	1.2	1.2	2.1	3.8	4.9	.0		18.9	
	22+	1.4	.4	.7	.2	.2	.7	2.5	2.9	.0		8.9	
	TOT %	8.3	3.8	3.1	2.2	3.3	4.8	9.2	11.0	.0	1.3	47.0	
	TOT OBS												1471
	TOT PCT	16.1	8.1	10.0	8.5	10.1	11.6	16.0	16.8	.0	2.8	100.0	

APRIL

PERIOD: (PRIMARY) 1958-1970
(OVER-ALL) 1887-1970

AREA 0006 CABOT STRAIT
46.8N 58.4W

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	9.8	2.4	3.3	7.3	13.9	9.8	2.9	.4	.8	2.0	52.7	47.3	245
06&09	8.7	.0	.0	9.9	13.4	13.4	1.2	.6	1.7	4.1	52.9	47.1	172
12&15	8.0	3.2	3.9	8.3	12.9	9.0	2.7	4.1	3.2	1.2	56.4	43.6	411
18&21	12.2	2.7	3.7	6.2	11.7	9.0	2.2	2.5	2.5	3.2	56.1	43.9	401
TOT	121	30	39	94	157	120	29	29	28	30	677	552	1229
PCT	9.8	2.4	3.2	7.6	12.8	9.8	2.4	2.4	2.3	2.4	55.1	44.9	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	11.5	3.1	1.6	12.1	28.3	43.5	322
06&09	6.5	2.6	1.7	8.2	20.3	60.8	232
12&15	11.0	2.7	3.5	10.4	26.2	46.2	489
18&21	10.3	3.5	5.0	11.2	26.0	44.0	457
TOT	153	45	49	160	385	708	1500
PCT	10.2	3.0	3.3	10.7	25.7	47.2	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	10.0	19.5	33.2	24.1	42.7	241
06&09	8.8	10.6	25.9	29.4	44.7	170
12&15	8.1	16.7	33.7	26.5	39.8	407
18&21	12.6	20.4	34.7	25.6	39.7	398
TOT	122	214	399	318	499	1216
PCT	10.0	17.6	32.8	26.2	41.0	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
55/59	.0	.0	.0	.0	.1	.1	.0	.0	2	.2
50/54	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
45/49	.0	.0	.0	.1	.1	.3	.3	.1	9	.9
40/44	.1	.1	.1	.4	1.1	1.2	2.4	1.6	70	6.9
35/39	.0	.1	.2	.2	1.9	5.8	14.1	20.2	433	42.4
30/34	.0	.1	.0	.3	1.0	5.4	12.1	21.4	411	40.3
25/29	.0	.0	.0	.1	.9	1.9	2.0	2.8	78	7.6
20/24	.0	.0	.0	.0	.1	.5	.6	.4	16	1.6
15/19	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
TOTAL	1	3	3	12	52	155	321	474	1021	100.0
PCT	.1	.3	.3	1.2	5.1	15.2	31.4	46.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.1	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
.0	.1	.1	*	.3	.3	.0	.0	.0	.0
.8	.5	1.0	.7	1.5	1.1	.8	.4	.0	.2
4.9	4.8	4.4	4.3	5.2	5.8	6.0	5.7	.0	1.4
9.7	3.1	3.5	3.0	3.9	3.0	5.7	7.2	.0	1.2
2.2	.3	.2	.3	.2	.7	2.0	1.9	.0	.0
.1	.0	.0	.0	.0	.2	.3	1.0	.0	.0
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
17.7	8.8	9.1	8.3	11.2	11.2	14.8	16.1	.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	69	43	39	34	28	22	18	33.8	325
06&09	70	48	39	34	28	22	20	34.3	235
12&15	66	46	42	35	28	24	18	35.1	491
18&21	70	48	44	36	28	23	21	36.2	460
TOT	70	47	42	35	28	23	18	35.0	1511

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	4.1	16.4	25.4	53.7	88	244
06&09	.0	1.2	1.9	12.3	30.2	54.3	89	162
12&15	.0	2.2	6.5	12.9	33.8	44.6	86	325
18&21	.3	2.6	6.4	18.3	34.4	37.9	84	311
TOT	1	18	54	159	328	482	87	1042

PERIOD: (PRIMARY) 1958-1970
(OVER-ALL) 1887-1970

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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	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.2	.0	.2	.0	4	.1	.3
11/13	.0	.0	.0	.0	.0	.0	.7	.4	.0	.0	11	.3	.8
9/10	.0	.0	.0	.0	.0	1.3	1.3	.3	.0	.0	29	.5	2.4
7/8	.0	.0	.0	.0	.1	3.5	.5	.0	.0	.0	45	.5	3.9
6	.0	.0	.0	.0	1.3	2.4	.5	.2	.0	.0	44	.6	3.8
5	.0	.0	.0	.0	2.0	4.0	.6	.0	.0	.0	67	.9	5.7
4	.0	.0	.0	.0	3.4	3.5	.6	.0	.0	.0	75	.9	6.5
3	.0	.0	.0	.6	4.6	3.3	.4	.0	.0	.0	90	1.7	7.2
2	.0	.0	.0	1.0	8.4	3.8	.2	.0	.0	.0	135	2.3	11.1
1	.0	.0	.0	1.8	10.6	2.1	.1	.0	.0	.0	147	2.5	12.0
0	.0	.0	.0	3.1	7.7	1.2	.1	.1	.0	.0	123	.8	11.4
-1	.0	.0	.2	3.3	3.9	.0	.1	.0	.0	.0	76	1.2	6.3
-2	.0	.0	.5	2.3	1.6	.1	.0	.0	.0	.0	45	.5	3.9
-3	.0	.0	.7	1.9	.6	.1	.0	.0	.0	.0	33	.4	2.9
-4	.0	.0	.8	1.3	.4	.1	.0	.0	.0	.0	26	.1	2.5
-5	.0	.2	.7	1.0	.2	.1	.0	.0	.0	.0	22	.1	2.1
-6	.0	.0	.5	.1	.1	.1	.0	.0	.0	.0	8	.2	.6
-7/-8	.0	.4	.5	.2	.0	.1	.0	.0	.0	.0	12	.1	1.1
-9/-10	.1	.6	.2	.0	.1	.0	.0	.0	.0	.0	10	.0	1.0
-11/-13	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	.7
-14/-16	.0	.0	.1	.0	.1	.0	.1	.0	.0	.0	3	.0	.3
TOTAL	4	16	42	166	456	258	58	10	2	1	1013	137	876
PCT	.4	1.6	4.1	16.6	45.0	25.5	5.6	1.0	.2	.1	100.0	13.5	86.5

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	.5	1.9	.7	.0	.0	.0	3.2
1-2	.8	1.9	1.6	.0	.0	.0	4.2
3-4	.0	.8	2.5	.8	.0	.0	4.1
5-6	.0	.8	1.9	.7	.3	.0	3.6
7	.0	.0	.7	.3	.0	.0	1.0
8-9	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	.0	.2	.3	.0	.5
12	.0	.0	.3	.0	.2	.0	.5
13-16	.0	.0	.0	.0	.3	.0	.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	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	5.4	8.3	2.0	1.7	.0	18.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.3	1.7	.8	.0	.0	.0	2.8
3-4	.0	1.2	1.7	.1	.0	.0	2.9
5-6	.0	.3	.3	.0	.3	.0	.9
7	.0	.0	1.1	.3	.0	.0	1.4
8-9	.0	.0	.1	1.3	.0	.0	1.4
10-11	.0	.0	.0	1.0	.0	.0	1.0
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	.3	4.1	3.9	3.2	.3	.0	11.8

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	.5	.4	.0	.0	.0	.8
3-4	.0	.6	1.2	.0	.0	.0	1.8
5-6	.0	.2	1.0	.0	.2	.0	1.4
7	.0	.0	.0	.3	.3	.0	.5
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.8	.3	.0	1.0
12	.0	.0	.0	.0	.5	.0	.5
13-16	.0	.0	.0	.5	.8	.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	.0	2.5	2.8	1.5	2.0	.0	8.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.1	.8	.0	.0	.0	1.9
1-2	.1	1.4	1.4	.0	.0	.0	2.8
3-4	.0	.1	1.4	.3	.0	.0	1.8
5-6	.0	.3	.3	.0	.0	.0	.6
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.3	.0	.0	.3
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	.1	2.8	4.1	1.1	.0	.0	8.2

APRIL

PERIOD: (OVER-ALL) 1963-1970

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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	.5	1.2	.0	.0	.0	.0	1.7
1-2	.6	1.4	.7	.0	.0	.0	2.8
3-4	.0	1.2	1.8	.2	.0	.0	3.2
5-6	.0	.3	1.4	.0	.0	.0	1.6
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	.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	1.1	4.1	3.9	.7	.2	.0	9.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	1.1	.0	.0	.0	2.6
1-2	.1	2.5	1.4	.0	.0	.0	4.0
3-4	.0	.6	1.9	.6	.0	.0	3.1
5-6	.0	.3	1.8	.0	.0	.0	2.1
7	.0	.0	.0	.3	.0	.0	.3
8-9	.0	.0	.0	.0	.1	.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	.1	.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	.1	4.8	6.3	1.1	.1	.0	12.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.3	.9	.0	.0	.0	3.2
1-2	.2	2.3	.8	.0	.0	.0	3.4
3-4	.0	.8	2.1	.0	.0	.0	2.8
5-6	.0	.0	1.4	.5	.0	.0	1.9
7	.0	.0	.0	.7	.3	.0	1.0
8-9	.0	.0	.2	.6	.5	.0	1.3
10-11	.0	.0	.0	.0	.3	.0	.3
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	.2	5.4	5.4	2.4	1.0	.0	14.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	1.9	.1	.0	.0	.0	2.3	
1-2	.9	1.5	1.9	.0	.0	.0	3.7	
3-4	.0	.8	2.1	.9	.0	.0	3.8	
5-6	.0	.0	.3	.3	.0	.0	.6	
7	.0	.0	.0	.6	.0	.0	.6	
8-9	.0	.0	.3	.1	.0	.0	.5	
10-11	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.3	.3	.0	.6	
13-16	.0	.0	.0	.3	.8	.0	1.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
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	
TOT PCT	.6	4.2	4.8	2.5	1.1	.3	13.4	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	4.1	12.3	3.6	.0	.0	.0	19.9	
1-2	2.3	13.0	9.0	.0	.0	.0	24.3	
3-4	.3	5.9	14.6	2.8	.0	.0	23.5	
5-6	.0	2.0	8.2	1.5	.8	.0	12.5	
7	.0	.0	2.0	2.8	.5	.0	5.4	
8-9	.0	.0	1.5	2.3	.5	.0	4.3	
10-11	.0	.0	.0	2.6	.8	.0	3.3	
12	.0	.0	.3	.8	1.0	.0	2.0	
13-16	.0	.0	.0	1.5	1.8	.0	3.3	
17-19	.0	.0	.0	.0	.8	.0	.8	
20-22	.0	.0	.0	.0	.3	.3	.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	
								391
TOT PCT	6.6	33.2	39.1	14.3	6.4	.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	4.5	12.3	15.6	5.6	1.7	.9	.5	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	267	3
6-7	.0	1.1	2.7	7.3	5.0	3.1	2.2	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	143	6
8-9	.2	1.3	1.6	1.4	1.1	2.0	1.7	.9	1.4	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	79	8
10-11	.0	.8	.9	.6	.6	.0	.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	6
12-13	.0	.0	.0	.3	.2	.6	.0	.3	.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	13	11
>13	.0	.0	.0	.2	.0	.2	.0	.3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	9	11
INDET	5.9	2.7	3.1	1.9	1.4	.8	.3	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	107	3
TOTAL	68	116	153	111	64	49	32	19	21	4	2	0	1	0	0	0	0	0	0	640	5
PCT	10.6	18.1	23.9	17.3	10.0	7.7	5.0	3.0	3.3	.6	.3	.0	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1971
(OVER-ALL) 1864-1971

AREA 0006 CABOT STRAIT
46.7N 58.2W

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 WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.2	.8	3.5	.0	2.3	.0	.0	10.9	.9	.0	13.5	1.3	.5		.0	73.0
NE	11.6	1.9	7.7	.0	.4	.0	.0	20.4	.3	.0	15.5	.6	.6		.6	62.0
E	13.6	1.6	8.1	.0	1.0	.0	.2	23.2	2.3	.3	25.7	.8	.7		.0	47.3
SE	14.6	3.1	7.5	.0	.9	.0	.1	25.1	1.5	.8	27.6	1.3	1.9		.0	42.4
S	10.4	1.8	4.5	.0	.7	.0	.4	17.3	2.3	.7	29.9	.4	1.6		.0	48.1
SW	4.8	1.9	2.2	.0	1.0	.0	.0	10.0	.4	.3	19.9	.0	1.5		.3	67.9
W	1.9	.7	1.5	.0	1.1	.0	.0	5.2	1.3	.1	11.2	.3	1.1		.0	80.9
NW	.9	.4	.5	.0	1.8	.0	.0	3.3	.6	.2	10.4	1.0	.5		.0	84.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	1.1	.0	.0	.0	1.1	.0	.0	2.1	2.1	.0	24.5	2.1	.0		.0	69.1
TOT PCT	7.1	1.4	3.9	.0	1.2	.0	.1	13.1	1.3	.3	19.2	.7	1.0		.1	64.4
TOT OBS:	2305															

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 WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00203	5.6	.5	4.4	.0	1.8	.0	.3	12.3	1.5	.3	20.6	.7	.5		.0	64.3
06209	8.7	1.4	4.5	.0	.4	.0	.0	14.5	.8	.4	17.8	.6	.8		.2	64.9
12215	7.7	1.8	4.4	.0	1.3	.0	.0	14.1	.9	.3	20.3	.9	1.6		.1	62.1
18221	6.3	1.6	2.3	.0	.7	.0	.0	10.9	1.8	.2	19.1	.9	.7		.0	66.6
TOT PCT	7.0	1.4	4.0	.0	1.1	.0	.1	13.0	1.2	.3	19.6	.8	1.0		.1	64.2
TOT OBS:	2443															

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	3.9	3.0	1.1	.1	.0		9.2	12.3	9.5	12.9	8.0	6.4	10.9	7.3	8.6	9.2
NE	.9	3.4	2.2	.7	.0	.0		7.3	10.9	6.5	8.8	8.9	8.0	7.1	6.2	7.3	6.5
E	1.3	4.9	4.5	1.9	.3	.1		13.0	13.4	10.3	11.1	10.8	13.4	12.7	20.8	12.9	12.1
SE	1.0	5.2	4.1	1.1	*	.0		11.3	11.6	12.3	10.4	10.5	11.7	12.3	11.4	9.7	11.5
S	.8	4.8	4.7	1.2	.1	.0		11.7	12.3	11.2	13.9	9.8	14.4	12.0	9.1	13.9	10.7
SW	1.1	5.5	4.9	1.3	.1	.1		12.9	12.6	13.6	12.4	12.7	16.3	13.4	7.9	14.0	14.1
W	.9	5.4	6.8	2.6	.3	.0		15.9	14.0	16.3	13.8	16.2	10.9	15.1	17.4	16.6	19.4
NW	1.1	6.0	5.2	2.2	.2	*		14.7	13.3	15.5	13.4	16.0	14.5	12.7	16.9	13.7	15.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.0							4.0	.0	4.7	3.4	7.1	4.4	3.8	3.0	3.2	1.0
TOT OBS	320	1045	945	323	30	5	2668		12.2	510	176	337	181	531	337	404	192
TOT PCT	12.0	39.2	35.4	12.1	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	2.5	4.1	2.0	.6	.0		9.2	12.3	10.4	7.4	9.5	8.8
NE	2.3	3.3	1.4	.3	.0		7.3	10.9	7.1	8.6	6.7	7.0
E	2.9	6.2	2.6	1.1	.1		13.0	13.4	10.5	11.7	15.8	12.7
SE	3.2	5.5	2.4	.3	.0		11.3	11.6	11.8	11.0	12.0	10.3
S	2.6	6.2	2.5	.4	.0		11.7	12.3	11.9	11.4	10.9	12.9
SW	3.4	5.9	3.1	.5	.1		12.9	12.6	13.3	13.9	11.3	14.1
W	3.1	7.7	3.9	1.2	.0		15.9	14.0	15.7	14.3	16.0	17.5
NW	3.4	6.9	3.3	1.0	.1		14.7	13.3	15.0	15.5	14.3	14.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.0						4.0	.0	4.4	6.2	3.5	2.5
TOT OBS	732	1224	561	145	6	2668		12.2	686	518	868	596
TOT PCT	27.4	45.9	21.0	5.4	.2		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1924-1971
(OVER-ALL) 1864-1971

AREA 0006 CABOT STRAIT
46.7N 58.2W

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	8.0	42.7	33.5	10.5	.9	.0	11.4	100.0	686
06&09	6.2	10.8	41.3	31.7	9.5	.6	.0	10.8	100.0	518
12&15	3.5	8.3	37.6	36.1	12.9	1.4	.3	12.6	100.0	868
18&21	2.5	5.0	35.6	39.9	15.1	1.5	.3	13.7	100.0	596
TOT	107	213	1045	945	323	30	5	12.2		2668
PCT	4.0	8.0	39.2	35.4	12.1	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	2.7	1.3	1.8	3.8		5.0
NE	.8	.7	1.7	4.1		6.4
E	1.3	.5	1.8	9.4		6.8
SE	.9	.2	2.0	6.9		6.9
S	1.8	.7	2.2	6.2		6.1
SW	3.8	1.1	3.0	4.9		5.0
W	6.7	2.2	3.8	4.1		4.1
NW	6.6	1.8	3.2	3.5		3.9
VAR	.0	.0	.0	.0		.0
CALM	1.7	.5	.6	1.7		4.3
TOT OBS	412	140	314	696	1562	5.3
TOT PCT	26.4	9.0	20.1	44.6	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	1.3	.1	.3	.7	.9	.9	.1	.1	.2	.3	4.7	
NE	.7	.3	.4	.8	1.1	1.2	.4	.1	.4	.1	2.2	
E	2.7	.2	.4	1.9	1.7	1.5	.7	.7	.3	.2	2.9	
SE	2.4	.3	.2	.8	1.3	1.3	.2	.4	.4	.2	2.6	
S	3.0	.3	.2	.5	1.0	.8	.2	.2	.3	.3	3.9	
SW	1.8	.0	.1	.8	1.2	.7	.4	.3	.4	.3	6.8	
W	.8	.1	.1	1.1	1.6	1.1	.4	.5	.6	.3	9.9	
NW	.6	*	.2	.5	1.2	1.2	.3	.5	.5	.2	9.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.0	.0	.3	.4	.3	.0	.1	.2	.1	2.8	
TOT OBS	213	16	32	114	162	137	43	44	55	34	712	1562
TOT PCT	13.6	1.0	2.0	7.3	10.4	8.8	2.8	2.8	3.5	2.2	45.6	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	4.2	5.7	6.1	6.1	6.1	6.1	6.1	6.1
* OR >5000	5.4	8.0	8.8	8.9	8.9	8.9	8.9	8.9
* OR >3500	7.0	10.3	11.3	11.6	11.6	11.6	11.6	11.6
* OR >2000	11.6	17.7	19.8	20.2	20.2	20.4	20.4	20.4
* OR >1000	16.3	26.1	29.7	30.3	30.5	30.6	30.7	30.7
* OR >600	18.4	31.2	36.3	37.9	38.2	38.4	38.5	38.5
* OR >300	18.6	31.8	37.4	39.3	39.8	40.1	40.2	40.4
* OR >150	18.6	32.0	37.9	39.9	40.4	40.9	41.2	41.4
* OR > 0	18.7	32.4	39.1	42.8	45.5	48.5	53.6	54.7
TOTAL	305	530	640	699	744	793	876	895

TOTAL NUMBER OF OBS: 1635

PCT FREQ NH <5/8: 45.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
18.9	10.1	6.6	5.3	3.7	3.8	5.7	6.8	27.6	11.5	1734

PERIOD: (PRIMARY) 1924-1971
(OVER-ALL) 1864-1971

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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
	PCP	.2	.1	.3	.9	.7	.2	.1	*	.0	.0	2.4	
<1/2	NO PCP	.7	.7	1.7	2.1	2.5	1.5	.9	.7	.0	.6	11.5	
	TOT %	.9	.8	2.0	2.9	3.2	1.7	1.0	.7	.0	.6	13.9	
	PCP	.2	.1	.2	.3	.3	.2	.0	*	.0	.0	1.4	
1/2<1	NO PCP	.3	.2	.7	.3	.4	.5	.5	.2	.0	.2	3.3	
	TOT %	.5	.3	.9	.7	.7	.7	.5	.3	.0	.2	4.8	
	PCP	*	.2	.7	.2	.2	.1	.2	*	.0	.0	1.6	
1<2	NO PCP	.1	.1	.6	.4	.3	.1	.2	.1	.0	*	2.1	
	TOT %	.2	.3	1.3	.6	.5	.2	.4	.2	.0	*	3.7	
	PCP	.3	.3	.6	.4	.3	.2	.2	.2	.0	*	2.7	
2<5	NO PCP	.1	.2	.8	.6	.5	.7	.5	.5	.0	.1	4.0	
	TOT %	.5	.5	1.4	.9	.9	.9	.7	.7	.0	.1	6.6	
	PCP	.2	.5	1.0	.9	.5	.4	.4	.2	.0	*	4.2	
5<10	NO PCP	1.8	1.6	2.8	2.6	2.6	3.4	4.0	3.1	.0	.5	22.3	
	TOT %	2.0	2.1	3.8	3.5	3.1	3.8	4.4	3.3	.0	.6	26.5	
	PCP	*	.2	.2	.2	.1	.1	.1	.0	.0	.0	1.0	
10+	NO PCP	5.4	3.2	3.5	2.5	3.2	5.0	9.3	8.7	.0	2.6	43.5	
	TOT %	5.4	3.4	3.7	2.8	3.3	5.2	9.4	8.7	.0	2.6	44.5	
	TOT OBS												2303
	TOT PCT	9.9	7.5	13.1	11.4	11.6	12.4	16.4	13.9	.0	4.1	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
	0-3	.1	.3	.3	.3	.3	.1	.1	.2	.0	.5	2.1	
<1/2	4-10	.6	.4	1.1	1.4	.7	.7	.6	.5	.0		5.9	
	11-21	.2	.2	.6	.9	1.4	.7	.3	.1	.0		4.4	
	22+	.0	*	.1	.3	.6	.2	*	.0	.0		1.1	
	TOT %	.9	.8	2.0	2.8	3.0	1.6	1.0	.8	.0	.5	13.6	
	0-3	.1	.1	.1	.1	.1	.0	.1	*	.0	.2	.7	
1/2<1	4-10	.1	.1	.2	.2	.2	.4	.1	.1	.0		1.4	
	11-21	.3	.1	.3	.2	.3	.3	.2	.1	.0		1.8	
	22+	*	*	.3	.1	.1	.1	.1	.0	.0		.8	
	TOT %	.5	.3	.8	.6	.6	.7	.5	.3	.0	.2	4.6	
	0-3	*	.0	*	.1	*	.0	.0	.0	.0	*	.2	
1<2	4-10	.1	.1	.2	.2	.2	.1	.1	*	.0		1.0	
	11-21	*	.1	.6	.2	.2	.1	.3	.1	.0		1.6	
	22+	*	.1	.5	.2	.1	.1	*	*	.0		1.0	
	TOT %	.2	.3	1.3	.6	.5	.3	.4	.2	.0	*	3.9	
	0-3	*	*	*	.1	*	.1	*	.1	.0	.1	.5	
2<5	4-10	.2	.2	.5	.4	.3	.2	.1	*	.0		2.0	
	11-21	.1	.3	.4	.5	.4	.5	.2	.3	.0		2.7	
	22+	.2	*	.5	.1	.2	.1	.3	.3	.0		1.5	
	TOT %	.4	.5	1.4	1.1	1.0	.9	.6	.7	.0	.1	6.8	
	0-3	.2	.2	.2	.2	.1	.1	.2	.2	.0	.5	1.9	
5<10	4-10	.5	.8	1.2	1.7	1.2	1.3	1.2	1.2	.0		9.3	
	11-21	.9	.7	1.4	1.2	1.3	1.6	2.1	1.2	.0		10.6	
	22+	.3	.3	.8	.3	.3	.5	.9	.7	.0		4.1	
	TOT %	2.0	2.0	3.7	3.4	2.9	3.5	4.5	3.3	.0	.5	25.9	
	0-3	.4	.3	.5	.3	.3	.8	.3	.5	.0	2.8	6.2	
10+	4-10	2.3	1.9	1.8	1.3	1.9	2.5	3.4	3.8	.0		18.8	
	11-21	1.7	.9	1.4	1.1	1.1	1.8	3.9	3.3	.0		15.1	
	22+	.7	.2	.2	.1	.2	.6	1.0	1.5	.0		5.2	
	TOT %	5.2	3.3	3.9	2.7	3.4	5.7	9.3	9.1	.0	2.8	45.3	
	TOT OBS												2483
	TOT PCT	9.2	7.3	13.2	11.3	11.4	12.8	16.3	14.3	.0	4.1	100.0	

MAY

PERIOD: (PRIMARY) 1924-1971
(OVER-ALL) 1864-1971

AREA 0006 CABOT STRAIT
46.7N 58.2W

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	12.1	1.0	1.8	8.7	11.1	9.0	2.8	1.8	3.6	3.3	55.3	44.7	389
06&09	12.2	.3	3.0	7.3	10.0	7.6	1.8	1.5	1.8	2.1	47.7	52.3	329
12&15	15.8	.8	1.3	6.0	8.4	7.1	4.3	5.4	6.2	1.5	56.8	43.2	533
18&21	12.1	1.7	1.9	8.7	11.3	10.9	1.2	1.2	2.8	1.7	53.4	46.6	423
TOT	222	16	32	127	169	144	45	46	65	35	901	773	1674
PCT	13.3	1.0	1.9	7.6	10.1	8.6	2.7	2.7	3.9	2.1	53.8	46.2	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	15.9	5.4	9.3	5.9	27.4	42.1	865
06&09	12.8	4.7	9.7	5.4	22.9	51.6	516
12&15	13.4	5.3	4.6	7.0	25.8	43.9	852
18&21	13.7	3.5	9.9	8.1	26.0	44.9	593
TOT	367	126	98	175	674	1186	2626
PCT	14.0	4.8	9.7	6.7	25.7	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	13.2	17.2	30.1	28.5	41.4	379
06&09	12.7	17.1	27.8	22.8	49.4	316
12&15	15.7	18.5	32.3	27.2	40.5	523
18&21	12.0	16.5	30.9	25.2	43.9	417
TOT	222	285	500	427	708	1635
PCT	13.6	17.4	30.6	26.1	43.3	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
65/69	.0	.0	.1	.0	.0	.0	.0	.0	1	.1
60/64	.0	.0	.2	.2	.0	.1	.0	.0	7	.5
55/59	.0	.3	.5	.4	.2	.1	.1	.0	23	1.5
50/54	.0	.1	.5	.7	.6	.2	.5	.2	42	2.7
45/49	.0	.0	.1	.7	1.2	2.5	2.6	2.7	149	9.7
40/44	.0	.1	.3	.3	2.0	4.8	10.7	17.7	549	35.9
35/39	.0	.0	.0	.3	1.5	3.3	10.8	26.7	653	42.7
30/34	.0	.0	.0	.0	.1	.7	1.2	4.7	104	6.8
25/29	.0	.0	.0	.0	.0	.0	.0	.1	2	.1
TOTAL	0	7	25	40	85	178	397	798	1530	100.0
PCT	.0	.5	1.6	2.6	5.6	11.6	25.9	52.2		

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	.0	.0	.0	.0	.2	.2	*	.0	.0
.1	*	.1	.1	.4	.4	.3	*	.0	.1
.4	.3	.1	.2	.3	.2	.8	.5	.0	.1
1.0	.7	1.0	1.1	1.0	2.2	1.7	.8	.0	.3
3.0	2.7	4.7	3.9	4.8	5.2	5.4	4.2	.0	1.9
4.7	3.5	5.5	4.6	4.4	5.0	7.5	5.6	.0	1.9
.9	.3	.8	.8	.7	.7	1.4	1.1	.0	.2
.0	.0	.0	.0	.1	.0	.1	.0	.0	.0
10.2	7.6	12.1	10.7	11.7	13.8	17.2	12.3	.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	64	52	47	39	33	31	29	39.5	718
06&09	67	49	45	38	33	31	27	38.6	552
12&15	83	54	49	40	34	32	29	41.0	903
18&21	67	60	53	41	35	33	30	42.2	624
TOT	67	56	49	40	34	31	27	40.4	2797

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	2.4	5.0	9.5	29.1	54.1	88	423
06&09	.0	2.3	3.8	9.9	25.7	58.2	88	342
12&15	.0	2.6	6.0	13.6	23.3	53.6	87	490
18&21	.0	9.3	7.1	16.1	25.6	42.0	83	410
TOT	0	72	90	201	421	841	86	1625

PERIOD: (PRIMARY) 1924-1971
(OVER-ALL) 1864-1971

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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	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
23/25	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.1	.0
20/22	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	3	.0	.2
17/19	.0	.0	.0	.0	.0	.0	.1	.4	.1	.1	12	.0	.6
14/16	.0	.0	.0	.0	.0	.5	.4	.3	.0	.1	24	.1	1.2
11/13	.0	.0	.0	.1	.7	1.0	.6	.2	.0	.0	49	.4	2.1
9/10	.0	.0	.1	.5	1.0	.9	.2	.0	.0	.0	53	.6	2.1
7/8	.0	.0	.6	1.7	2.1	.7	.0	.1	.0	.0	103	.7	4.6
6	.0	.1	1.1	2.4	1.2	.3	.0	.0	.0	.0	96	.8	4.1
5	.0	.2	1.9	3.3	1.4	.1	.0	.0	.0	.0	136	1.7	5.2
4	.0	.4	3.8	4.3	1.1	.2	.0	.0	.0	.0	189	2.2	7.4
3	.0	1.0	6.2	3.8	1.0	.1	.1	.0	.0	.0	236	2.8	9.3
2	.0	2.4	8.2	5.0	.5	.0	.0	.0	.1	.0	316	3.3	12.9
1	.0	2.5	7.8	2.9	.4	.2	.0	.0	.1	.0	268	2.5	11.2
0	.2	2.6	9.1	1.5	.2	.1	.0	.0	.0	.0	187	1.9	7.6
-1	.2	2.2	3.2	.6	.1	.0	.0	.0	.0	.0	121	1.3	4.9
-2	.3	1.9	1.4	.3	.0	.0	.0	.0	.0	.0	76	1.1	2.8
-3	.1	.9	.6	.1	.1	.1	.0	.0	.0	.0	35	.3	1.5
-4	.4	.4	.2	.1	.1	.0	.0	.0	.0	.0	21	.2	.9
-5	.2	.4	.2	.1	.0	.0	.0	.0	.0	.0	16	.1	.7
-6	.1	.1	.0	.1	.0	.1	.0	.0	.0	.0	5	.1	.2
-7/-8	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	5	.0	.3
-9/-10	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	3	.0	.2
-11/-13	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.1	.0
TOTAL	29		791		191		26		5			392	1565
		295		520		78		21		3	1957		
PCT	1.4	15.1	40.4	26.6	9.8	4.0	1.3	1.1	.3	.2	100.0	20.0	80.0

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	.2	1.1	.2	.0	.0	.0	1.5
1-2	.0	1.7	1.0	.0	.0	.0	2.7
3-4	.0	1.2	.5	.0	.0	.0	1.8
5-6	.0	.0	.6	.2	.2	.0	1.0
7	.0	.0	.0	.4	.0	.0	.4
8-9	.0	.0	.2	.4	.0	.0	.6
10-11	.0	.0	.0	.2	.0	.0	.2
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	4.0	2.6	1.4	.2	.0	8.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.1	.0	.0	.0	.0	1.1
1-2	.0	1.5	.0	.0	.0	.0	1.5
3-4	.0	.4	.1	.4	.0	.0	.9
5-6	.0	.5	.7	.5	.0	.0	1.7
7	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.1	.0	.0	.1
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	3.4	.8	1.1	.0	.0	5.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.0	.2	.0	.0	.0	1.6
1-2	.2	2.0	1.2	.0	.0	.0	3.4
3-4	.0	1.4	2.2	.2	.0	.0	3.8
5-6	.0	.3	1.1	.9	.2	.0	2.6
7	.0	.0	.6	.2	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.2	.2	.0	.2	.0	.6
13-16	.0	.0	.0	.7	.2	.0	.9
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	.6	5.0	5.5	2.0	.9	.0	13.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.6	.2	.0	.0	.0	1.9
1-2	.0	2.4	.9	.0	.0	.0	3.3
3-4	.0	1.0	1.1	.0	.0	.0	2.1
5-6	.0	.1	.3	.2	.0	.0	.5
7	.0	.0	.5	.2	.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	5.0	3.0	.4	.0	.0	8.5

PERIOD: (OVER-ALL) 1963-1971

MAY

TABLE 18 (CONT)

AREA 0006 CABOT STRAIT
46.7N 58.2W

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	.6	.2	.0	.0	.0	1.4
1-2	.2	3.3	1.5	.0	.0	.0	5.0
3-4	.0	.8	2.1	.4	.0	.0	3.3
5-6	.0	.2	.9	.3	.0	.0	1.4
7	.0	.0	.0	.3	.0	.0	.3
8-9	.0	.0	.2	.4	.0	.0	.6
10-11	.0	.0	.0	.2	.2	.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	.7	4.9	4.9	1.7	.2	.0	12.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.6	.0	.0	.0	.0	1.9
1-2	.3	2.0	1.0	.0	.0	.0	3.3
3-4	.0	1.3	.9	.4	.0	.0	2.6
5-6	.0	.1	1.0	.8	.0	.0	2.0
7	.0	.0	.7	.5	.0	.0	1.3
8-9	.0	.0	.3	.2	.0	.0	.5
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	.5	5.0	3.9	2.2	.0	.0	11.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.2	3.4	.8	.0	.0	.0	4.4
3-4	.2	2.2	2.2	1.0	.0	.0	5.5
5-6	.0	.2	1.9	.0	.0	.0	2.0
7	.0	.0	.6	.7	.0	.0	1.3
8-9	.0	.0	.6	.2	.0	.0	.8
10-11	.0	.0	.0	1.5	.4	.0	1.9
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	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	6.0	3.3	.7	.0	16.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	1.8	.4	.0	.0	.0	2.7	
1-2	.7	3.8	2.1	.0	.0	.0	6.6	
3-4	.1	1.0	4.1	.8	.0	.0	5.9	
5-6	.0	.3	.8	.9	.0	.0	2.0	
7	.0	.0	.2	.0	.0	.0	.2	
8-9	.0	.0	.1	.7	.0	.0	.8	
10-11	.0	.0	.0	.0	.2	.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	1.1	6.9	7.8	2.4	.2	.0	18.4	95.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.7	9.8	1.3	.0	.0	.0	18.8	
1-2	1.9	19.7	8.3	.0	.0	.0	29.9	
3-4	.2	9.2	12.8	3.2	.0	.0	25.4	
5-6	.0	1.5	7.1	3.8	.4	.0	12.8	
7	.0	.0	2.6	2.4	.0	.0	4.9	
8-9	.0	.0	1.3	1.9	.0	.0	3.2	
10-11	.0	.0	.0	1.9	.9	.0	2.8	
12	.0	.2	.2	.2	.2	.0	.9	
13-16	.0	.0	.0	.6	.4	.0	1.1	
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	
								468
TOT PCT	9.8	40.4	33.5	14.1	2.1	.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	5.0	12.1	14.5	7.1	2.6	1.0	.9	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	357	3
6-7	.0	1.1	5.5	7.2	3.4	2.4	1.8	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	185	6
8-9	.0	1.1	2.2	2.9	2.6	1.3	1.2	.9	1.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	110	7
10-11	.0	.5	.5	.6	.4	.7	.1	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	29	7
12-13	.0	.0	.1	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
>13	.0	.0	.0	.0	.2	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	10
INDET	4.8	4.4	3.9	1.1	.4	.5	.4	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	130	3
TOTAL	80	157	219	156	79	49	36	18	19	3	3	0	0	0	0	0	0	0	0	819	4
PCT	9.8	19.2	26.7	19.0	9.6	6.0	4.4	2.2	2.3	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1926-1971
(OVER-ALL) 1864-1971

AREA 0006 CABOT STRAIT
46.7N 58.2W

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	4.9	.4	4.1	.0	.0	.0	.0	9.5	.0	.4	11.3	.0	1.0		.0	77.7
NE	16.5	1.3	2.2	.0	.0	.0	.0	20.0	2.6	.0	18.9	.0	.0		.0	58.4
E	23.1	1.9	8.9	.0	.0	.0	.0	33.5	1.4	.0	23.9	.4	.4		.0	40.4
SE	10.0	.6	3.1	.0	.0	.0	.0	13.1	.5	.0	39.6	1.9	2.6		.0	42.4
S	7.5	.8	2.2	.0	.0	.0	.0	10.2	1.6	.2	29.2	2.5	4.0		.0	52.5
SW	4.3	1.3	1.3	.0	.0	.0	.0	6.7	.4	.2	25.6	.4	2.2		.0	64.5
W	1.8	.4	1.7	.0	.0	.0	.0	3.8	.8	.4	11.4	1.2	2.6		.0	79.8
NW	1.3	1.0	1.8	.0	.0	.0	.0	4.0	1.4	.2	10.5	1.0	2.3		.0	80.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	4.0	1.3	1.3	.0	.0	.0	.0	6.7	.0	.0	21.3	.0	4.0		.0	68.0
TOT PCT	7.8	1.0	2.9	.0	.0	.0	.0	11.5	1.0	.2	22.1	1.0	2.2		.0	61.9
TOT OBS:	1737															

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	7.4	.8	3.4	.0	.0	.0	.0	11.4	1.1	.6	20.5	.6	1.7		.0	64.3
06&09	9.4	1.7	3.1	.0	.0	.0	.0	14.2	2.0	.0	21.7	.9	1.4		.0	59.8
12&15	7.1	1.4	2.7	.0	.0	.0	.0	10.8	1.0	.0	26.4	.8	1.7		.0	59.2
18&21	8.3	.3	2.5	.0	.0	.0	.0	10.9	.3	.0	17.9	2.0	4.3		.0	64.6
TOT PCT	7.9	1.0	2.9	.0	.0	.0	.0	11.6	1.0	.2	22.1	1.0	2.2		.0	61.9
TOT OBS:	1812															

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	3.1	2.4	.5	.1	.0		6.8	11.1	6.3	7.3	7.9	5.3	8.4	5.7	6.6	5.0
NE	.6	3.1	2.0	.4	.1	.0		6.2	10.9	5.4	3.3	10.4	6.8	6.9	5.5	5.9	3.0
E	.8	4.5	4.9	.9	.2	.0		11.4	12.4	10.1	8.8	11.3	9.5	11.6	18.0	10.8	8.4
SE	.6	5.1	4.6	.5	.1	.0		10.9	11.3	9.3	7.3	7.7	11.9	10.6	15.6	11.1	16.6
S	1.8	7.1	6.1	1.5	.1	.0		16.6	11.4	18.6	18.4	15.4	12.9	16.0	11.9	20.9	15.7
SW	1.0	7.5	5.8	1.8	.1	.0		16.2	12.0	17.3	19.5	13.3	18.8	18.8	12.4	14.1	16.0
W	.8	6.8	6.1	1.1	.1	.0		14.9	11.9	16.3	12.8	16.7	15.5	11.7	15.2	14.9	17.5
NW	.6	5.4	4.3	1.7	.3	.0		12.2	11.2	12.8	19.0	10.9	14.0	9.2	12.7	11.1	15.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8							4.8	.0	3.9	3.5	6.4	5.3	6.8	3.1	4.7	2.2
TOT OBS	228	831	703	161	19	0	1942		11.3	409	113	250	132	397	229	278	134
TOT PCT	11.7	42.8	36.2	8.3	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	1.9	3.6	1.0	.2	.0		6.8	11.1	6.5	7.0	7.4	6.1
NE	2.2	2.6	1.1	.3	.0		6.2	10.9	4.9	9.2	6.3	5.0
E	2.5	6.1	2.2	.5	.0		11.4	12.4	9.9	10.7	13.9	10.0
SE	2.4	6.5	1.9	.2	.0		10.9	11.3	8.9	9.2	12.5	12.9
S	4.4	8.7	3.1	.4	.0		16.6	11.4	18.5	14.5	14.5	19.2
SW	3.6	9.0	3.2	.4	.0		16.2	12.0	17.8	15.2	16.5	14.7
W	3.7	7.6	3.3	.3	.0		14.9	11.9	15.6	16.3	13.0	15.8
NW	2.7	5.9	2.5	1.0	.0		12.2	13.2	14.1	12.0	10.5	12.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.8						4.8	.0	3.8	6.0	5.4	3.9
TOT OBS	551	972	355	64	0	1942		11.3	522	382	626	412
TOT PCT	28.4	50.1	18.3	3.3	.0		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1926-1971
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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	3.8	6.9	46.7	33.1	8.6	.8	.0	11.0	100.0	522
06&09	6.0	7.6	41.4	37.2	7.6	.3	.0	10.8	100.0	382
12&15	5.4	7.7	44.1	34.2	7.3	1.3	.0	11.1	100.0	626
18&21	3.9	5.3	37.1	42.2	10.0	1.5	.0	12.4	100.0	412
TOT	93	135	831	703	161	19	0	11.3		1942
PCT	4.8	7.0	42.8	36.2	8.3	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	2.1	1.3	1.8	1.6		4.4
NE	.7	.4	1.1	4.5		6.7
E	.6	.4	1.3	10.3		7.3
SE	1.2	.7	1.1	7.3		6.7
S	3.1	2.0	2.9	7.9		5.7
SW	5.0	1.9	2.7	7.3		5.1
W	8.0	2.4	3.0	3.4		4.0
NW	4.0	1.6	2.4	2.2		4.2
VAR	.0	.0	.0	.0		.0
CALM	1.7	.7	1.2	2.4		4.9
TOT OBS	287	133	206	552	1178	5.4
TOT PCT	24.4	11.3	17.5	46.9	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	.7	.0	.1	.1	.8	.4	.1	.1	.4	.0	3.9	
NE	1.0	.0	.1	1.2	1.1	.9	.1	.3	.2	.1	1.6	
E	3.0	.2	.9	1.8	2.1	.8	.4	.7	.6	.2	1.9	
SE	2.9	.1	.5	.2	1.6	.7	.1	.6	.4	.1	2.8	
S	3.2	.2	.1	1.0	1.4	.9	.3	.4	1.0	.5	7.0	
SW	2.9	.1	.2	.9	1.3	1.0	.5	.3	.5	.3	8.9	
W	1.3	.1	.2	.2	.6	1.1	.6	.2	.3	.2	10.1	
NW	.7	.0	.3	.2	.8	.8	.2	.2	.5	.2	6.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.8	.0	.0	.3	.8	.3	.3	.2	.3	.0	3.1	
TOT OBS	194	8	30	69	123	81	29	36	50	19	538	1178
TOT PCT	16.5	.8	2.5	5.9	10.4	6.9	2.5	3.1	4.2	1.6	45.7	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	3.9	5.1	5.7	5.8	5.8	5.8	5.8	5.8
* OR >5000	5.1	7.4	8.6	8.8	8.8	8.8	8.8	8.8
* OR >3500	6.6	9.4	10.9	11.2	11.2	11.2	11.2	11.2
* OR >2000	11.1	15.3	17.8	18.2	18.2	18.2	18.2	18.2
* OR >1000	15.7	24.0	27.7	28.3	28.3	28.6	28.7	28.7
* OR >600	17.1	27.1	32.3	33.6	33.9	34.6	34.6	34.6
* OR >300	17.4	27.9	33.9	35.6	36.1	36.8	37.1	37.1
* OR >150	17.4	28.1	34.4	36.1	36.9	37.6	38.0	38.0
* OR > 0	17.5	28.4	35.2	39.2	42.3	45.5	52.3	54.7
TOTAL	210	341	423	471	508	546	628	657

TOTAL NUMBER OF OBS: 1201 PCT FREQ NH <5/8: 45.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
18.1	9.5	8.6	5.0	3.6	3.8	4.7	6.3	25.8	14.7	1268

PERIOD: (PRIMARY) 1926-1971
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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
	PCP	.2	.2	.2	.1	.3	.2	.1	.1	.0	.0	1.4	
<1/2	NO PCP	.4	.7	1.6	2.9	3.1	2.9	.9	.5	.0	.7	13.8	
	TOT %	.6	.9	1.8	3.0	3.4	3.1	1.0	.6	.0	.7	15.2	
	PCP	*	.1	.2	.1	.1	.1	.0	.1	.0	.1	.8	
1/2<1	NO PCP	.2	.1	.4	.5	1.2	.6	.4	.5	.0	.0	3.9	
	TOT %	.2	.2	.5	.7	1.3	.8	.4	.6	.0	.1	4.7	
	PCP	.0	.1	.9	.3	.3	.1	.1	.0	.0	.1	1.9	
1<2	NO PCP	.1	*	.3	.4	.3	.2	.2	.1	.0	.0	1.6	
	TOT %	.1	.1	1.2	.8	.6	.9	.3	.1	.0	.1	3.5	
	PCP	*	.6	1.4	.4	.4	.1	*	.0	.0	.1	3.0	
2<5	NO PCP	.1	.4	.7	.7	1.1	.6	.4	.4	.0	.3	4.7	
	TOT %	.1	1.0	2.1	1.1	1.5	.7	.4	.4	.0	.4	7.7	
	PCP	.4	.3	.9	.2	.4	.4	.2	.2	.0	.1	3.1	
5<10	NO PCP	1.5	1.3	2.2	2.1	3.7	3.8	3.7	3.4	.0	.5	22.3	
	TOT %	1.9	1.6	3.2	2.4	4.1	4.9	3.9	3.6	.0	.5	25.4	
	PCP	*	.1	.4	.3	.2	.1	.1	.0	.0	.1	1.3	
10+	NO PCP	4.0	2.6	2.7	3.0	5.6	6.9	8.0	6.7	.0	2.5	42.2	
	TOT %	4.1	2.7	3.1	3.3	5.8	7.0	8.1	6.7	.0	2.6	43.5	
	TOT OBS												1734
	TOT PCT	6.9	6.5	11.9	11.3	16.6	16.1	14.2	12.1	.0	4.3	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	.2	.2	.2	.2	.5	.2	.1	.1	.0	.9	2.4	
<1/2	4-10	.3	.5	.8	1.7	1.3	1.6	.5	.4	.0		7.0	
	11-21	.1	.2	.6	1.0	1.4	1.1	.4	.2	.0		4.8	
	22+	.1	.1	.2	.1	.2	.3	*	.0	.0		.9	
	TOT %	.6	.9	1.7	3.0	3.4	3.1	1.0	.6	.0	.9	15.1	
	0-3	.1	*	.0	*	.1	.1	.0	.1	.0	.1	.4	
1/2<1	4-10	.1	.2	.3	.2	.4	.2	.2	.3	.0		1.9	
	11-21	.1	.0	.2	.4	.6	.4	.2	.1	.0		1.9	
	22+	.0	.0	.1	.1	.1	.1	.0	.'	.0		.4	
	TOT %	.2	.2	.6	.7	1.3	.7	.4	.6	.0	.1	4.7	
	0-3	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	.2	
1<2	4-10	.0	.0	.4	.2	.2	.1	.2	.1	.0		1.2	
	11-21	.1	*	.4	.4	.2	.2	.1	.0	.0		1.3	
	22+	.0	.1	.2	.2	.1	*	*	*	.0		.7	
	TOT %	.1	.1	1.1	.8	.6	.3	.3	.1	.0	.1	3.4	
	0-3	*	.1	*	*	.1	*	.1	.0	.0	.4	.7	
2<5	4-10	*	.4	.4	.6	.4	.3	.3	.1	.0		2.7	
	11-21	.1	.3	1.3	.4	.5	.2	*	.2	.0		3.0	
	22+	.0	.2	.4	.1	.4	.1	.1	.1	.0		1.4	
	TOT %	.1	1.0	2.1	1.1	1.4	.6	.5	.4	.0	.4	7.8	
	0-3	.1	.2	.3	.2	.3	.2	.3	*	.0	.5	2.2	
5<10	4-10	1.1	.5	1.2	1.1	1.8	1.7	1.4	1.5	.0		10.3	
	11-21	.5	.8	1.2	.9	1.5	1.6	2.0	1.8	.0		10.3	
	22+	*	.1	.3	.1	.5	.6	.1	.2	.0		1.9	
	TOT %	1.8	1.6	3.1	2.3	4.0	4.1	3.8	3.5	.0	.5	24.7	
	0-3	.3	.2	.2	.2	.6	.5	.3	.4	.0	2.7	5.3	
10+	4-10	1.6	1.6	1.3	1.4	2.9	3.5	3.6	3.1	.0		19.2	
	11-21	1.8	.8	1.5	1.6	2.2	2.4	3.5	2.1	.0		16.0	
	22+	.4	*	.0	.1	.1	.8	.9	1.6	.0		3.8	
	TOT %	4.1	2.6	3.1	3.3	5.8	7.2	8.4	7.2	.0	2.7	44.3	
	TOT OBS												1810
	TOT PCT	6.8	6.4	11.8	11.2	16.5	16.1	14.3	12.3	.0	4.6	100.0	

JUNE

PERIOD: (PRIMARY) 1926-1971
(OVER-ALL) 1864-1971

AREA 0006 CABOT STRAIT
46.7N 58.2W

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	16.2	.7	2.4	7.1	11.1	7.7	2.4	1.3	3.0	1.0	52.9	47.1	297
06&09	17.6	1.6	2.0	8.6	9.4	11.3	2.7	1.6	1.6	1.2	57.4	42.6	256
12&15	19.9	.0	3.1	3.1	10.7	4.2	1.3	5.2	5.8	1.8	55.2	44.8	382
18&21	10.9	1.4	2.4	5.5	9.9	5.8	3.4	2.7	5.1	2.4	49.5	50.5	293
TOT	201	10	31	71	127	85	29	36	50	20	660	568	1228
PCT	16.4	.8	2.5	5.8	10.3	6.9	2.4	2.9	4.1	1.6	53.7	46.3	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	16.5	3.8	2.6	7.2	28.3	41.6	498
06&09	17.6	3.5	2.4	6.2	25.7	44.4	369
12&15	14.8	6.7	4.7	8.5	23.3	41.9	613
18&21	13.0	3.7	3.2	8.6	23.6	47.9	407
TOT	291	88	64	146	475	823	1887
PCT	15.4	4.7	3.4	7.7	25.2	43.6	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	16.6	21.7	34.5	22.4	43.1	290
06&09	17.8	23.3	34.8	24.5	40.7	253
12&15	20.4	25.0	35.2	24.2	40.6	372
18&21	11.2	16.8	29.4	24.8	45.8	286
TOT	201	263	403	288	510	1201
PCT	16.7	21.9	33.6	24.0	42.5	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
75/79	.0	.1	.0	.1	.0	.0	.0	.0	2	.2
70/74	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
65/69	.0	.0	.2	.4	.1	.2	.0	.0	9	.8
60/64	.0	.1	.1	.4	.4	.3	.5	.0	18	1.7
55/59	.0	.3	.2	.9	1.1	2.0	2.1	.8	81	7.4
50/54	.0	.1	.1	.4	1.6	3.5	5.5	8.5	214	19.7
45/49	.0	.0	.0	.2	.7	5.9	11.8	23.2	456	41.9
40/44	.0	.0	.0	.0	.1	1.7	6.9	18.0	290	26.6
35/39	.0	.0	.0	.0	.0	.2	.5	1.0	18	1.7
TOTAL	0	6	6	25	43	150	297	562	1089	100.0
PCT	.0	.6	.6	2.3	3.9	13.8	27.3	51.6		

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	.1
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
.1	.0	.0	.0	.1	.3	.1	.1	.0	.1
.1	.1	.0	.1	.3	.3	.3	.1	.0	.2
.6	.4	.0	.8	1.8	1.4	1.3	.9	.0	.3
1.1	.9	1.2	2.0	5.2	3.7	2.2	2.0	.0	1.3
2.1	2.5	5.3	5.1	6.2	7.0	6.6	4.9	.0	2.2
1.9	2.8	4.6	2.4	3.2	3.8	4.0	2.7	.0	1.2
.3	.1	.2	.1	.1	*	.1	.3	.0	.4
6.3	6.7	11.4	10.4	16.9	16.8	14.7	11.0	.0	5.7

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	68	61	55	46	41	39	34	47.0	549
06&09	68	60	53	46	40	38	33	46.1	386
12&15	75	61	58	48	41	40	34	46.7	647
18&21	81	73	61	49	42	39	35	49.8	432
TOT	81	63	57	47	41	39	33	48.0	2014

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	3.7	11.2	27.0	56.5	89	322
06&09	.0	.8	1.6	9.8	24.2	63.5	91	244
12&15	.0	2.8	3.7	17.4	27.6	48.4	87	322
18&21	.0	9.0	6.9	15.5	28.6	40.0	83	245
TOT	0	38	45	154	305	591	88	1133

PERIOD: (PRIMARY) 1926-1971
(OVER-ALL) 1864-1971

TABLE 17

AREA 0006 CABOT STRAIT
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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	33 36	37 40	41 44	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
>30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	2	.0	.1
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	2	.0	.1
20/22	.0	.0	.0	.0	.0	.1	.0	.1	.2	.2	.1	.0	.0	10	.0	.7
17/19	.0	.0	.0	.0	.0	.1	.3	.2	.1	.1	.0	.0	.0	11	.0	.8
14/16	.0	.0	.0	.1	.0	.8	.5	.2	.1	.0	.0	.0	.0	24	.1	1.5
11/13	.0	.0	.0	.1	.7	1.1	1.8	.5	.1	.0	.0	.0	.0	60	.5	3.6
9/10	.0	.0	.1	.3	1.4	1.0	.8	.1	.0	.0	.0	.0	.0	54	.5	3.2
7/8	.0	.0	.1	1.0	1.9	1.7	.3	.0	.0	.0	.0	.0	.0	71	1.0	3.9
6	.0	.0	.2	1.3	2.1	1.5	.2	.0	.0	.0	.0	.0	.0	78	1.0	4.4
5	.0	.1	.8	3.4	2.3	1.2	.1	.2	.0	.0	.0	.0	.0	119	1.3	6.9
4	.0	.2	1.9	5.0	2.4	.9	.4	.1	.0	.0	.0	.0	.0	158	2.5	8.4
3	.0	.0	3.0	5.8	3.3	1.0	.1	.1	.0	.0	.0	.0	.0	194	3.2	10.1
2	.0	.4	5.1	6.2	2.8	.3	.0	.0	.0	.0	.0	.0	.0	215	3.5	11.2
1	.0	.8	4.5	5.1	1.9	.3	.0	.0	.0	.0	.0	.0	.0	182	2.9	9.6
0	.0	.7	4.0	2.5	2.0	.2	.1	.0	.0	.0	.0	.0	.0	139	2.6	6.9
-1	.0	.2	1.0	1.9	.4	.1	.0	.0	.0	.0	.0	.0	.0	92	1.2	2.3
-2	.0	.3	.6	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	30	.5	1.5
-3	.0	.1	.8	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	24	.6	1.0
-4	.0	.2	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	13	.3	.6
-5	.1	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	7	.1	.4
-6	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	5	.1	.2
-7/-8	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-9/-10	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.1	.3
-11/-13	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1		333		322		64		6		3		1		322	1136
		44		506		152		20		4		2		1453		
PCT	.1	3.0	22.8	34.7	22.1	10.4	4.4	1.4	.4	.3	.2	.1	.1	100.0	22.1	77.9

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	1.6	.0	.0	.0	.0	1.6
1-2	.0	1.4	1.6	.0	.0	.0	2.9
3-4	.0	.6	1.1	.4	.0	.0	2.1
5-6	.0	.0	.6	.4	.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	.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	3.6	3.3	1.0	.0	.0	7.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.3	.0	.0	.0	.0	2.0
1-2	.0	1.6	.1	.0	.0	.0	1.7
3-4	.0	.8	1.3	.0	.0	.0	2.1
5-6	.0	.0	.5	.0	.1	.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	.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	.7	3.7	1.8	.0	.5	.0	6.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.6	.0	.0	.0	1.9
1-2	.4	1.6	.0	.0	.0	.0	2.0
3-4	.0	.7	1.6	.4	.0	.0	2.7
5-6	.0	.0	.6	.4	.6	.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	.4	3.6	2.9	.7	.8	.0	8.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.8	.1	.0	.0	.0	2.3
1-2	.0	.7	2.0	.0	.0	.0	2.7
3-4	.0	.8	2.4	.4	.0	.0	3.6
5-6	.0	.0	.5	.7	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.1	.0	.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	3.5	4.9	1.1	.0	.0	9.9

PERIOD: (OVER-ALL) 1963-1971

JUNE

AREA 0006 CABOT STRAIT
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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	1.1	1.6	.4	.0	.0	.0	3.0
1-2	.0	3.0	2.8	.0	.0	.0	5.8
3-4	.0	2.0	6.6	1.4	.0	.0	9.9
5-6	.0	.7	1.2	.6	.4	.0	2.9
7	.0	.0	.9	.4	.0	.0	1.3
8-9	.0	.3	.0	.3	.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	1.1	7.6	11.9	2.6	.4	.0	23.5

SW

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	2.6	2.2	.0	.0	.0	4.8
3-4	.0	1.9	5.7	.1	.0	.0	7.7
5-6	.0	.7	.6	.1	.0	.0	1.5
7	.0	.0	.9	.7	.0	.0	1.6
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	7.3	9.4	1.0	.0	.0	17.7

W

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	2.4	.9	.0	.0	.0	3.3
3-4	.0	1.1	3.4	.0	.0	.0	4.5
5-6	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	.4	.4	.0	.0	.7
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	1.1	4.1	5.7	.7	.0	.0	11.6

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	3.0	1.4	.0	.0	.0	4.4	
3-4	.4	1.1	1.0	.0	.0	.0	2.5	
5-6	.0	.0	.8	.0	.0	.0	.8	
7	.0	.4	.7	.4	.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	.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	4.9	3.9	.5	.0	.0	9.7	95.3

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	10.3	1.1	.0	.0	.0	21.0	
1-2	.7	16.0	10.7	.0	.0	.0	27.4	
3-4	.4	9.3	22.4	2.5	.0	.0	34.5	
5-6	.0	1.4	5.7	2.1	1.1	.0	10.3	
7	.0	.4	2.8	1.8	.0	.0	5.0	
8-9	.0	.4	.0	.4	.0	.0	.7	
10-11	.0	.0	.0	.4	.0	.0	.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	.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	10.7	37.7	42.7	7.5	1.4	.0	100.0	281

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	2.9	16.5	19.2	6.7	2.6	.2	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	317	3
6-7	.2	2.1	7.9	6.4	2.9	1.2	.8	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	146	5
8-9	.0	1.2	1.7	1.2	2.0	.6	.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	5
10-11	.0	.0	.9	.8	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	5
12-13	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	3	9
>13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	3	14
INDET	6.7	6.0	3.4	2.0	.3	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	122	2
TOTAL	64	169	218	114	93	15	8	7	2	3	2	0	0	0	0	0	0	0	0	655	4
PCT	9.8	25.8	33.3	17.4	8.1	2.3	1.2	1.1	.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1926-1970
(OVER-ALL) 1874-1970

AREA 0006 CABOT STRAIT
46.6N 58.3W

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	3.1	5.5	.0	.0	.0	.0	11.3	2.3	.0	14.8	2.7	1.6		.0	67.2
NE	7.6	4.0	1.0	.0	.0	.0	.0	11.6	4.0	.5	23.7	3.0	2.0		.0	55.1
E	9.5	.0	4.9	.0	.0	.0	.0	12.6	1.6	.7	44.3	.9	2.1		.6	37.1
SE	10.3	.5	2.1	.0	.0	.0	.0	12.5	.7	2.3	38.7	1.0	2.0		.0	44.1
S	5.0	2.9	2.4	.0	.0	.0	.0	9.4	1.3	1.7	42.9	.6	3.3		.0	42.0
SW	2.1	1.1	.2	.0	.0	.0	.0	3.3	.6	.6	35.1	1.0	4.0		.3	55.0
W	.6	1.5	.6	.0	.0	.0	.0	2.6	.0	.0	25.4	.0	4.1		.0	67.9
NW	.0	1.2	.0	.0	.0	.0	.0	1.2	1.2	.0	14.9	.2	3.9		.0	78.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	5.3	1.3	1.3	.0	.0	.0	.0	8.0	.0	.0	36.0	2.7	1.3		.0	52.0
TOT PCT	4.8	1.5	1.8	.0	.0	.0	.0	7.4	1.0	.9	34.1	1.0	3.1		.1	52.9
TOT OBS:	1471															

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	1.8	1.3	.0	.0	.0	.0	6.7	.5	1.8	30.8	.3	2.8		.3	57.8
06&09	7.9	1.0	3.9	.0	.0	.0	.0	10.5	1.0	1.6	30.2	1.6	1.6		.0	54.1
12&15	3.9	1.4	1.9	.0	.0	.0	.0	6.8	1.2	.2	39.0	1.2	2.9		.0	47.8
18&21	3.8	1.5	.0	.0	.0	.0	.0	5.3	1.5	.0	32.8	.9	4.7		.3	54.4
TOT PCT	4.7	1.5	1.7	.0	.0	.0	.0	7.2	1.1	.9	34.0	1.0	3.0		.1	53.1
TOT OBS:	1514															

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	2.0	1.6	.2	.0	.0		4.2	10.1	5.4	3.5	6.2	4.1	3.5	2.8	4.1	3.5
NE	.4	1.8	1.1	.1	.0	.0		3.4	9.8	1.4	5.3	5.6	4.6	4.5	2.8	3.0	1.0
E	.8	4.5	4.4	1.1	.0	.0		10.8	11.6	8.9	11.2	7.0	9.6	11.4	16.3	12.8	8.2
SE	1.2	6.6	4.7	.8	.1	.0		13.3	10.9	14.4	14.3	11.8	11.8	13.3	11.3	15.6	12.7
S	1.4	8.2	8.6	1.9	.1	.0		20.3	12.0	23.2	17.3	17.5	23.6	18.2	14.3	22.9	26.2
SW	1.6	9.5	9.4	1.9	.1	.0		22.7	11.7	23.1	21.3	26.0	22.3	26.7	21.8	18.6	16.4
W	1.0	5.1	4.8	.9	.0	.0		11.9	11.3	11.0	17.1	12.6	12.1	9.7	12.9	10.7	13.9
NW	.7	3.4	3.5	.9	.0	.0		8.4	11.9	9.4	7.5	8.7	4.6	7.1	9.9	6.6	15.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.1							5.1	.0	3.2	2.6	4.7	7.1	5.6	7.9	5.7	3.1
TOT OBS	209	676	629	126	3	0	1643		10.9	313	114	193	140	324	203	228	128
TOT PCT	12.7	41.1	38.3	7.7	.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	1.4	2.2	.6	.0	.0		4.2	10.1	4.9	5.3	3.2	3.9
NE	1.1	1.9	.4	.0	.0		3.4	9.8	2.5	5.2	3.8	2.2
E	3.0	5.3	2.4	.1	.0		10.8	11.6	9.5	8.1	13.3	11.2
SE	3.2	8.0	1.9	.2	.0		13.3	10.9	14.3	11.8	12.6	14.5
S	4.7	11.0	4.1	.4	.1		20.3	12.0	21.6	20.0	16.7	24.1
SW	5.1	13.2	4.1	.3	.0		22.7	11.7	22.6	24.5	24.8	17.8
W	3.3	6.4	2.1	.1	.0		11.9	11.3	12.6	12.4	11.0	11.9
NW	2.3	4.2	1.8	.2	.0		8.4	11.9	8.9	7.0	8.2	9.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.1						5.1	.0	3.0	5.7	6.5	4.8
TOT OBS	478	857	287	20	1	1643		10.9	427	393	527	356
TOT PCT	29.1	52.2	17.5	1.2	.1		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1926-1970
(OVER-ALL) 1874-1970

AREA 0006 CABOT STRAIT
46.6N 58.3W

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	3.0	7.5	44.3	38.2	6.8	.2	.0	10.9	100.0	427
06&09	5.7	5.1	42.3	40.2	6.6	.0	.0	10.8	100.0	333
12&15	6.5	10.6	38.5	35.5	8.9	.0	.0	10.6	100.0	527
18&21	4.8	5.9	40.2	40.7	7.9	.6	.0	11.4	100.0	356
TOT	83	126	676	629	126	3	0	10.9		1643
PCT	5.1	7.7	41.1	38.3	7.7	.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	1.2	.5	.5	1.5		4.8
NE	.9	.1	.5	2.0		5.9
E	1.1	.4	1.7	10.6		7.1
SE	1.7	1.3	2.7	7.5		6.3
S	3.3	1.1	3.8	11.6		6.2
SW	5.9	2.5	4.0	7.9		5.0
W	4.0	2.2	2.5	3.2		4.4
NW	3.8	1.4	1.6	1.6		3.7
VAR	.0	.0	.0	.0		.0
CALM	1.1	.7	.8	2.5		5.4
TOT OBS	232	104	184	490	1010	5.6
TOT PCT	23.0	10.3	18.2	48.5	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	.3	.0	.0	.4	.4	.4	.3	.0	.0	.1	1.8	
NE	.9	.0	.0	.3	.8	.1	.1	.0	.1	.0	1.1	
E	6.1	.1	.4	1.4	1.8	.6	.2	.7	.6	*	1.9	
SE	3.7	.1	.4	1.1	1.0	1.3	.3	.3	.3	.2	4.4	
S	6.8	.4	.4	1.1	1.6	.8	.6	.6	.7	.3	6.6	
SW	4.5	.1	.2	.6	1.3	1.1	.3	.5	.5	.3	10.9	
W	2.3	.0	.1	.2	.4	.3	.3	.2	.5	.3	7.3	
NW	.6	.0	.1	.4	.4	.7	*	*	.4	.1	5.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5	.0	.1	.1	.3	.1	.1	.3	.2	.1	2.3	
TOT OBS	270	8	17	58	80	55	23	26	35	15	423	1010
TOT PCT	26.7	.8	1.7	5.7	7.9	5.4	2.3	2.6	3.5	1.5	41.9	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	2.6	4.1	4.3	4.3	4.7	4.7	4.7	4.8
* OR >5000	3.5	6.1	6.8	6.9	7.3	7.3	7.3	7.4
* OR >3500	4.6	8.0	8.9	9.0	9.4	9.4	9.5	9.6
* OR >2000	7.7	12.5	13.9	14.3	14.8	14.8	14.9	15.0
* OR >1000	10.9	18.4	21.0	21.9	22.5	22.5	22.8	22.9
* OR >600	12.3	22.3	26.3	27.3	27.9	28.0	28.5	28.6
* OR >300	12.4	22.8	27.4	28.6	29.2	29.5	30.0	30.1
* OR >150	12.4	22.8	27.5	28.9	29.8	30.3	30.8	30.9
* OR > 0	12.4	23.0	28.8	32.7	37.2	42.3	53.3	57.6
TOTAL	125	233	291	391	376	428	539	583

TOTAL NUMBER OF OBS: 1012 PCT FREQ NH <5/8: 42.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
18.2	7.8	8.0	5.2	3.3	4.3	4.7	6.4	17.6	24.5	1055

PERIOD: (PRIMARY) 1926-1970
(OVER-ALL) 1874-1970

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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
	PCP	.0	.1	.3	.3	.8	.2	.1	.0	.0	.0	1.8	
<1/2	NO PCP	.2	.6	2.8	3.2	5.7	5.4	1.8	.5	.0	1.2	21.5	
	TOT %	.2	.7	3.1	3.6	6.6	5.6	1.8	.5	.0	1.2	23.2	
	PCP	.0	.0	.1	*	.1	.1	.0	.0	.0	.1	.4	
1/2<1	NO PCP	.1	.1	1.0	.7	1.3	.9	.3	.3	.0	.3	4.9	
	TOT %	.1	.1	1.1	.7	1.3	1.0	.3	.3	.0	.4	5.3	
	PCP	.1	.1	.3	.1	.1	.1	.0	.0	.0	.0	.7	
1<2	NO PCP	.1	.1	.6	.6	.7	.5	.4	.2	.0	.1	3.4	
	TOT %	.1	.1	.9	.7	.9	.6	.4	.2	.0	.1	4.1	
	PCP	.1	.2	.3	.4	.3	.2	.1	.0	.0	.1	1.7	
2<5	NO PCP	.1	.2	.8	.7	1.1	.8	.6	.3	.0	.1	4.6	
	TOT %	.2	.3	1.1	1.1	1.4	1.0	.7	.3	.0	.3	6.3	
	PCP	.4	.1	.3	.7	.5	.1	.1	.1	.0	.1	2.4	
5<10	NO PCP	1.5	1.0	1.7	2.7	4.2	5.9	3.5	2.6	.0	.7	23.8	
	TOT %	1.8	1.1	2.1	3.4	4.7	6.1	3.6	2.7	.0	.8	26.2	
	PCP	.0	.1	.1	*	.1	.1	.1	.0	.0	.0	.4	
10+	NO PCP	1.9	1.0	3.0	3.6	5.3	7.6	4.8	4.8	.0	2.4	34.4	
	TOT %	1.9	1.1	3.1	3.6	5.4	7.7	4.8	4.8	.0	2.4	34.8	
	TOT OBS												1471
	TOT PCT	4.4	3.4	11.4	13.1	20.3	22.0	11.7	8.8	.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
	0-3	.1	.1	.3	.5	.4	.3	.2	*	.0	1.1	2.9	
<1/2	4-10	.1	.4	1.4	1.5	2.5	2.6	1.1	.4	.0		10.0	
	11-21	.0	.2	1.1	1.4	2.9	2.1	.5	*	.0		8.3	
	22+	.0	.0	.1	.1	.6	.6	*	*	.0		1.4	
	TOT %	.2	.6	3.0	3.4	6.4	5.6	1.8	.5	.0	1.1	22.6	
	0-3	*	.0	.0	.1	.4	.1	.0	*	.0	.4	1.0	
1/2<1	4-10	*	*	.1	.4	.5	.4	.1	.1	.0		1.7	
	11-21	*	.0	.7	.2	.3	.5	.2	.2	.0		2.1	
	22+	.0	.1	.2	*	.1	.0	.0	.0	.0		.3	
	TOT %	.1	.1	1.0	.7	1.3	.9	.3	.3	.0	.4	5.0	
	0-3	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.3	
1<2	4-10	.1	.0	.2	.2	.3	.2	.3	.1	.0		1.5	
	11-21	.0	.1	.4	.2	.6	.3	.1	.1	.0		1.8	
	22+	.0	.1	.2	.1	.1	*	.0	.1	.0		.6	
	TOT %	.1	.1	.9	.7	1.0	.6	.5	.2	.0	.1	4.2	
	0-3	*	.1	.1	.1	.0	.1	.1	.1	.0	.3	.9	
2<5	4-10	.0	.1	.3	.4	.6	.4	.1	*	.0		2.1	
	11-21	.1	.1	.6	.6	.8	.8	.4	.1	.0		3.4	
	22+	*	.0	*	*	.1	.1	.0	*	.0		.3	
	TOT %	.2	.3	1.1	1.1	1.5	1.4	.6	.3	.0	.3	6.6	
	0-3	.1	.1	.1	.2	.2	.3	.2	.4	.0	.8	2.4	
5<10	4-10	.9	.5	.8	1.6	1.7	2.7	1.6	1.2	.0		10.9	
	11-21	.6	.4	.9	1.1	2.0	2.5	1.3	.8	.0		9.6	
	22+	.1	.0	.2	.3	.8	.7	.4	.3	.0		2.8	
	TOT %	1.7	1.0	2.0	3.3	4.6	6.2	3.5	2.6	.0	.8	25.7	
	0-3	.2	.1	.3	.2	.4	.8	.4	.2	.0	2.3	4.9	
10+	4-10	.8	.7	1.7	2.3	2.4	3.1	1.9	1.6	.0		14.6	
	11-21	.8	.4	.8	1.1	2.2	3.8	2.4	2.4	.0		13.9	
	22+	.1	.0	.4	.2	.4	.5	.3	.5	.0		2.5	
	TOT %	1.9	1.2	3.3	3.8	5.4	8.2	5.0	4.8	.0	2.3	35.9	
	TOT OBS												1545
	TOT PCT	4.2	3.4	11.2	12.9	20.0	22.9	11.8	8.6	.0	4.9	100.0	

JULY

PERIOD: (PRIMARY) 1926-1970
(OVER-ALL) 1874-1970

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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	23.5	.9	.9	4.8	9.6	6.5	.9	.4	1.7	3.5	52.6	47.4	230
06&09	22.1	.5	2.8	5.2	10.3	3.8	3.8	.9	2.8	.0	52.1	47.9	213
12&15	33.4	.6	1.5	5.0	5.6	5.6	.9	5.6	4.6	.6	63.5	36.5	323
18&21	22.6	1.1	1.5	7.4	6.7	5.2	4.1	1.9	3.7	1.9	55.9	44.1	270
TOT	270	8	17	58	80	55	24	26	35	15	588	448	1036
PCT	26.1	.8	1.6	5.6	7.7	5.3	2.3	2.5	3.4	1.4	56.8	43.2	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	24.3	3.9	2.7	4.4	32.6	32.6	408
06&09	21.3	5.0	3.1	6.6	26.6	37.5	320
12&15	25.1	6.5	6.3	5.9	22.2	34.1	510
18&21	18.3	4.9	4.3	9.7	23.7	39.1	350
TOT	359	82	66	103	414	564	1588
PCT	22.6	5.2	4.2	6.5	26.1	35.5	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	24.1	28.1	38.4	19.6	42.0	224
06&09	22.7	31.9	40.6	17.4	42.0	207
12&15	34.3	38.4	49.1	18.9	32.1	318
18&21	23.2	28.5	44.5	17.5	38.0	263
TOT	271	326	443	186	383	1012
PCT	26.8	32.2	43.8	18.4	37.8	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	.1	.0	.0	.1	.0	.0	2	.2
75/79	.0	.0	.1	.2	.0	.0	.0	.0	3	.3
70/74	.0	.1	.0	.1	.5	.4	.9	.4	24	2.5
65/69	.0	.1	.0	.3	.3	.9	2.7	2.5	66	6.8
60/64	.0	.0	.0	.1	1.1	4.8	6.5	8.2	200	20.7
55/59	.0	.0	.0	.3	.4	3.6	13.8	20.9	377	39.0
50/54	.0	.0	.0	.1	.2	1.1	5.6	18.6	248	25.7
45/49	.0	.0	.0	.0	.0	.0	.9	3.8	46	4.8
TOTAL	0	2	2	11	25	106	294	526	966	100.0
PCT	.0	.2	.2	1.1	2.6	11.0	30.4	54.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	.1	.0	.0	.0	.0
.0	.0	.0	.0	.0	.2	.0	.0	.0	.1
.0	.0	.2	.2	.8	.7	.2	.1	.0	.3
.2	.3	.4	.7	2.0	2.6	.5	.1	.0	.1
.8	.4	1.6	3.0	5.0	5.6	2.2	1.0	.0	1.0
1.6	1.9	4.0	5.3	8.7	8.2	4.0	3.6	.0	1.7
2.1	.8	4.2	4.4	3.4	4.0	3.5	2.2	.0	1.1
.3	.4	.7	.6	.5	.2	.8	1.0	.0	.2
5.0	3.8	11.2	14.3	20.5	21.6	11.2	8.0	.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	74	69	65	56	49	47	45	56.4	436
06&09	72	68	63	55	47	35	35	54.9	340
12&15	80	74	66	57	50	48	37	57.4	531
18&21	82	72	68	59	50	48	45	58.9	368
TOT	82	71	66	57	49	46	35	57.0	1675

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	1.4	8.2	32.2	57.9	91	292
06&09	.0	.9	.5	5.7	29.7	63.2	92	212
12&15	.0	2.3	2.3	13.6	26.4	55.5	89	265
18&21	.0	3.2	6.4	16.4	34.5	39.5	85	220
TOT	0	16	25	108	303	537	89	989

PERIOD: (PRIMARY) 1926-1970
(OVER-ALL) 1874-1970

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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	48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	2	.1	.1
20/22	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	2	.0	.2
17/19	.0	.0	.0	.0	.1	.2	.0	.1	.0	.0	4	.1	.3
14/16	.1	.0	.0	.3	.4	.5	.2	.0	.0	.0	17	.3	1.2
11/13	.0	.1	.3	.5	.5	.8	.3	.1	.1	.0	32	.8	1.9
9/10	.0	.1	.8	1.3	1.4	.9	.3	.0	.0	.0	58	1.5	3.4
7/8	.1	.2	1.7	2.0	1.6	1.1	.6	.0	.0	.1	86	2.6	4.7
6	.0	.3	1.5	2.0	1.7	.3	.0	.1	.0	.0	69	2.2	3.7
5	.0	.8	2.5	1.7	1.1	.3	.2	.0	.0	.0	78	2.0	4.7
4	.2	1.4	3.1	3.2	1.8	.6	.4	.0	.0	.0	127	3.6	7.2
3	.9	2.4	3.5	3.6	1.5	.4	.1	.0	.0	.0	138	3.7	8.1
2	.3	2.5	4.0	4.4	1.1	.3	.1	.0	.0	.0	150	4.5	8.2
1	.7	2.1	4.2	3.7	1.2	.0	.0	.0	.0	.0	140	4.5	7.4
0	.5	2.1	3.5	2.9	.5	.1	.0	.1	.0	.0	114	3.7	6.0
-1	.4	1.4	2.1	.7	.3	.0	.0	.0	.0	.0	58	1.8	3.1
-2	.3	1.0	1.3	.4	.3	.1	.1	.0	.0	.0	40	1.4	2.0
-3	.0	.5	.8	.3	.2	.0	.1	.0	.0	.0	22	.5	1.4
-4	.0	.3	.6	.2	.0	.0	.0	.0	.0	.0	13	.3	.8
-5	.0	.5	.3	.2	.0	.0	.0	.0	.0	.0	11	.2	.8
-6	.0	.6	.3	.1	.0	.0	.0	.0	.0	.0	12	.1	.9
-7/-8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.3
-11/-13	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	33	199	301	321	161	67	28	4	3	1	1178	396	782
PCT	2.8	16.9	30.6	27.2	13.7	5.7	2.4	.3	.3	.1	100.0	33.6	66.4

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	.0	.0	.0	.0	.0	.4
1-2	.0	.4	.8	.0	.0	.0	1.2
3-4	.3	.0	2.9	.7	.0	.0	3.9
5-6	.0	.0	.6	.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	.7	.4	4.3	.7	.0	.0	6.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.4	.0	.0	.0	.8
1-2	.0	.4	.4	.0	.0	.0	.8
3-4	.5	.8	.0	.0	.0	.0	1.2
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	.5	1.5	1.1	.0	.0	.0	3.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.7	.7	.0	.0	.0	3.4
1-2	.0	1.3	2.3	.0	.0	.0	3.6
3-4	.0	1.1	1.3	.9	.0	.0	3.4
5-6	.0	.0	.4	.4	.0	.0	.8
7	.0	.0	.0	1.5	.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	5.2	4.6	2.8	.0	.0	12.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.1	.5	.0	.0	.0	2.1
1-2	.5	2.5	1.1	.0	.0	.0	4.1
3-4	.4	1.3	3.5	.6	.0	.0	5.8
5-6	.0	.4	2.2	.8	.0	.0	3.3
7	.0	.0	.0	.4	.0	.0	.4
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	1.3	5.3	7.3	2.1	.0	.0	15.9

PERIOD: (OVER-ALL) 1963-1970 AREA 0006 CABOT STRAIT
TABLE 18 (CONT) 46.6N 58.3W

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	2.1	.4	.0	.0	.0	3.1	.4	1.6	.4	.0	.0	.0	2.4
1-2	.6	3.7	4.0	.0	.0	.0	8.2	.1	2.8	1.7	.0	.0	.0	4.6
3-4	.0	3.8	4.4	1.1	.0	.0	9.3	.0	1.4	2.5	1.5	.0	.0	5.5
5-6	.0	.3	2.6	.3	.0	.0	3.2	.0	.9	1.6	.1	.0	.0	2.6
7	.0	.0	.0	.8	.0	.0	.8	.0	.0	.8	.4	.0	.0	1.1
8-9	.0	.0	.8	.0	.0	.0	.8	.0	.0	.0	.1	.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	1.2	9.8	12.2	2.2	.0	.0	25.4	.5	6.8	7.0	2.1	.0	.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	.3	.0	.4	.0	.0	.0	.7	.1	.4	.0	.0	.0	.0	.5	
1-2	.0	2.0	1.0	.0	.0	.0	3.0	.0	1.3	1.1	.0	.0	.0	2.5	
3-4	.3	1.4	1.8	.0	.0	.0	3.5	.1	.4	2.7	.5	.0	.0	3.7	
5-6	.0	.3	1.0	.0	.0	.0	1.3	.0	.0	.3	.0	.0	.0	.3	
7	.0	.0	.0	.4	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4	
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	.4	.0	.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	.6	3.7	4.2	.7	.0	.0	9.2	.2	2.1	4.5	.8	.0	.0	7.6	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	6.0	8.3	2.6	.0	.0	.0	16.9	
1-2	1.5	14.3	12.4	.0	.0	.0	28.2	
3-4	1.5	10.2	19.2	5.3	.0	.0	36.1	
5-6	.0	1.9	9.0	1.4	.0	.0	12.4	
7	.0	.0	1.1	5.4	.0	.0	6.5	
8-9	.0	.0	.8	.8	.0	.0	1.5	
10-11	.0	.0	.0	.0	.0	.0	.0	
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	9.0	34.6	45.1	11.3	.0	.0	100.0	766

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	4.4	21.3	21.8	6.9	2.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	339	3
6-7	.2	2.3	7.2	6.7	3.7	.8	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	129	5
8-9	.2	.5	1.7	1.8	1.7	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	5
10-11	.0	.2	.5	.3	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	5
12-13	.0	.0	.7	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
>13	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
INDFT	5.2	2.7	3.2	.7	.2	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	2
TOTAL	59	161	209	99	46	11	7	3	2	0	0	0	0	0	0	0	0	0	0	597	3
PCT	9.9	27.0	35.0	16.6	7.7	1.8	1.2	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1944-1970
(OVER-ALL) 1887-1970

AREA 0006 CABOT STRAIT
46.6N 58.5W

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	.7	3.0	.0	.0	.0	.0	10.0	3.7	.0	2.7	.0	.0		.0	83.7
NE	9.1	1.7	5.2	.0	.0	.0	.0	15.9	.0	.0	11.6	.0	.0		.0	72.4
E	7.7	1.2	6.8	.0	.0	.0	.0	15.7	3.3	.0	23.1	.0	2.1		.0	55.8
SE	8.7	3.4	7.2	.0	.0	.0	.0	19.4	1.9	.9	20.6	3.4	6.0		.0	48.7
S	3.4	2.0	5.6	.0	.0	.0	.0	11.0	1.4	.9	23.8	.9	3.1		.0	59.3
SW	3.9	2.0	1.0	.0	.0	.0	.0	6.5	.9	.8	20.3	1.5	3.4		.0	67.0
W	2.4	1.0	.8	.0	.0	.0	.0	4.1	.9	.5	11.6	.5	4.3		.4	78.3
NW	1.9	1.9	.3	.0	.0	.0	.0	4.0	.2	.6	7.0	1.2	.2		.2	86.7
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	32.1	.0	.0		.0	67.9
TOT PCT	4.3	1.8	3.0	.0	.0	.0	.0	9.0	1.3	.6	16.7	1.1	2.8		.1	68.9
TOT OBS:	1200															

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	4.1	.8	4.5	.0	.0	.0	.0	9.4	1.5	.8	15.0	1.9	2.3		.4	69.5
06&09	4.5	2.1	1.7	.0	.0	.0	.0	8.3	2.1	1.7	18.2	2.1	1.7		.0	66.5
12&15	5.3	2.9	1.5	.0	.0	.0	.0	9.7	.5	.0	17.4	.7	3.9		.0	67.8
18&21	2.7	.7	4.8	.0	.0	.0	.0	7.8	1.4	.3	16.7	.0	2.7		.0	71.3
TOT PCT	4.3	1.7	3.0	.0	.0	.0	.0	8.9	1.2	.6	16.9	1.1	2.8		.1	68.8
TOT OBS:	1214															

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	2.4	2.7	.6	.1	.0		6.4	12.9	5.1	7.5	7.9	8.1	6.4	4.0	9.2	2.5
NE	.4	2.1	2.1	.2	*	.0		4.9	11.5	4.4	6.5	2.6	6.8	4.0	7.4	5.2	4.7
E	.5	2.0	2.8	.9	.4	.1		6.7	15.5	6.0	5.1	2.6	5.7	6.1	14.1	7.1	6.4
SE	.9	3.3	3.7	1.3	.3	.1		9.4	13.9	11.3	11.6	5.0	6.8	10.4	8.4	11.1	9.1
S	.8	7.2	7.9	1.5	.0	.0		17.4	12.3	17.0	19.9	18.6	21.4	17.0	11.8	21.0	13.2
SW	1.1	8.6	10.4	2.4	.1	.0		22.6	12.9	24.5	18.5	24.6	31.3	22.9	20.7	18.4	21.1
W	1.0	6.5	7.3	1.3	.2	.1		16.3	12.9	14.9	15.1	19.9	9.9	16.0	18.9	12.9	25.2
NW	.4	5.0	6.4	1.5	.1	.0		13.4	13.8	14.4	14.4	16.7	8.1	14.1	12.3	12.6	11.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9							2.9	.0	2.5	1.4	2.3	2.1	3.2	2.5	2.7	6.9
TOT OBS	116	501	988	131	16	4	1356		12.7	242	73	175	96	282	163	223	102
TOT PCT	8.6	36.9	43.4	9.7	1.2	.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	1.7	2.7	1.6	.4	.0		6.4	12.9	5.6	7.9	5.5	7.1
NE	1.2	2.7	.8	.1	.0		4.9	11.5	4.9	4.1	5.2	5.0
E	1.2	3.1	1.7	.6	.1		6.7	15.5	5.8	3.7	9.0	6.8
SE	2.0	4.1	2.6	.6	.1		9.4	13.9	11.3	5.6	9.7	10.5
S	4.2	8.8	4.0	.3	.0		17.4	12.3	17.7	19.6	15.1	18.5
SW	4.7	11.9	5.6	.4	.0		22.6	12.9	23.1	26.9	22.1	19.2
W	3.8	8.2	3.8	.4	.1		16.3	12.9	14.9	16.3	17.0	16.8
NW	2.3	6.4	4.0	.7	.0		13.4	13.8	14.4	13.7	13.4	12.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.9						2.9	.0	2.2	2.2	2.9	4.0
TOT OBS	326	651	326	48	5	1356		12.7	315	271	445	325
TOT PCT	24.0	48.0	24.0	3.5	.4		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1944-1970
(OVER-ALL) 1887-1970

AREA 0006 CABOT STRAIT
46.6N 58.5W

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	2.2	5.7	39.4	43.5	8.8	.6	.3	12.1	100.0	315
06&09	2.2	3.0	41.3	43.9	8.5	.4	.7	12.7	100.0	271
12&15	2.9	8.3	32.4	43.1	11.2	1.8	.2	13.1	100.0	445
18&21	4.0	4.3	37.2	43.1	9.8	1.5	.0	13.0	100.0	325
TOT	39	77	501	588	131	16	4	12.7		1356
PCT	2.9	5.7	36.9	43.4	9.7	1.2	.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	1.4	1.4	1.6	1.9		5.0
NE	.2	.6	1.2	2.2		6.3
E	.7	.5	1.8	5.3		6.8
SE	1.0	.8	1.6	5.4		6.4
S	4.0	2.1	3.2	7.6		5.4
SW	6.1	2.6	5.9	7.5		5.0
W	6.1	2.6	3.8	4.5		4.4
NW	5.1	3.0	3.5	2.5		4.0
VAR	.0	.0	.0	.0		.0
CALM	.8	.4	.4	.5		4.4
TOT OBS	233	129	210	341	913	5.1
TOT PCT	25.5	14.1	23.0	37.3	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	.1	.1	.4	1.2	.6	.3	.0	.1	.1	3.4	
NE	.4	*	.1	.2	.8	.8	.1	.0	.0	.3	1.5	
E	2.0	.1	.1	.8	1.1	.8	.2	.5	.6	.2	1.8	
SE	1.8	.4	.4	.9	1.1	.8	.5	.1	.2	.0	2.6	
S	3.3	.0	.1	1.1	1.8	1.0	.4	.2	.6	.5	7.8	
SW	3.5	.0	.6	.5	2.3	1.2	.4	.8	1.0	.9	11.5	
W	1.1	.1	.3	.5	1.9	.8	.4	.7	.4	.1	10.8	
NW	.4	.0	.0	.9	1.3	1.1	.3	.6	.4	*	9.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.1	.2	.1	.0	.1	.1	.0	1.3	
TOT OBS	117	6	15	50	106	66	24	28	30	16	455	913
TOT PCT	12.8	.7	1.6	5.5	11.6	7.2	2.6	3.1	3.3	1.8	49.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	3.1	4.1	4.9	4.9	4.9	4.9	5.0	5.0
* OR >5000	4.6	6.9	7.9	8.0	8.0	8.0	8.1	8.1
* OR >3500	6.3	9.2	10.3	10.6	10.6	10.6	10.7	10.7
* OR >2000	10.1	14.9	17.3	17.8	17.8	17.8	17.9	17.9
* OR >1000	15.4	24.4	28.4	29.0	29.1	29.1	29.2	29.4
* OR >600	18.4	29.2	33.7	34.5	34.7	34.7	34.8	35.0
* OR >300	18.8	30.2	35.0	35.9	36.2	36.2	36.3	36.5
* OR >150	18.8	30.5	35.4	36.3	36.8	36.9	37.0	37.2
* OR > 0	18.8	30.6	36.8	39.9	42.6	44.4	48.9	50.1
TOTAL	172	281	337	366	391	407	448	459

TOTAL NUMBER OF OBS: 917

PCT FREQ NH <5/8: 49.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
18.6	9.2	9.3	7.2	5.0	4.9	7.0	6.8	20.8	11.6	953

PERIOD: (PRIMARY) 1944-1970
(OVER-ALL) 1887-1970

AREA 0006 CABOT STRAIT
46.0N 58.5W

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	*	.1	.1	.3	.3	.3	.1	.0	.0	.0	1.2	
<1/2	NO PCP	.0	.4	.7	.8	1.9	2.9	1.0	.2	.0	.3	7.5	
	TOT %	*	.5	.8	1.0	2.2	2.6	1.0	.2	.0	.3	8.7	
	PCP	.0	.1	.1	.4	.1	.0	.0	.0	.0	.0	.6	
1/2<1	NO PCP	.0	.1	.6	.3	.6	.5	.4	.2	.0	.3	2.9	
	TOT %	.0	.2	.6	.6	.7	.5	.4	.2	.0	.3	3.5	
	PCP	.1	.0	.3	.2	.4	.9	.1	*	.0	.0	1.3	
1<2	NO PCP	.0	.0	.3	.2	.3	.6	.3	.2	.0	.2	2.1	
	TOT %	.1	.0	.5	.4	.7	.9	.4	.2	.0	.2	3.4	
	PCP	.2	.3	.2	.2	.3	.5	.1	.0	.0	.0	1.8	
2<5	NO PCP	.3	.1	.3	.7	1.3	1.9	.6	.4	.0	.0	4.9	
	TOT %	.5	.4	.5	.9	1.6	1.7	.7	.4	.0	.0	6.7	
	PCP	.1	.3	.4	.8	.8	.5	.2	.3	.0	.0	3.2	
5<10	NO PCP	1.3	1.2	1.2	3.1	4.0	6.4	4.6	2.8	.0	.3	25.0	
	TOT %	1.3	1.5	1.6	3.9	4.8	7.1	4.7	3.0	.0	.3	28.2	
	PCP	.1	.1	.0	.2	.1	*	.3	.3	.0	.0	1.1	
10+	NO PCP	4.1	2.3	2.9	2.8	7.7	9.2	9.0	9.2	.0	1.4	48.5	
	TOT %	4.2	2.3	2.9	2.9	7.8	9.2	9.3	9.4	.0	1.4	49.6	
	TOT OBS												1200
	TOT PCT	6.3	4.8	7.0	9.8	17.8	21.9	16.6	13.5	.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
	0-3	.0	.1	.1	*	.1	*	.2	.0	.0	.3	.8	
<1/2	4-10	*	.2	.2	.4	1.5	1.2	.3	.2	.0		4.0	
	11-21	.0	.1	.5	.5	.8	.9	.3	.0	.0		3.2	
	22+	.0	*	.1	.1	*	.3	.2	.0	.0		.7	
	TOT %	*	.4	.8	1.0	2.5	2.5	1.0	.2	.0	.3	8.8	
	0-3	.0	.0	.0	.2	.0	.0	*	*	.0	.2	.5	
1/2<1	4-10	.0	.2	.1	.1	.2	.3	.1	.2	.0		1.1	
	11-21	.0	.0	.3	.3	.4	.2	.2	.0	.0		1.4	
	22+	.0	.0	.2	.1	.0	.0	.0	.0	.0		.3	
	TOT %	.0	.2	.6	.6	.7	.5	.4	.2	.0	.2	3.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
1<2	4-10	.1	.0	.2	.1	.0	.3	.2	*	.0		1.0	
	11-21	.0	.0	.1	*	.4	.5	.2	.2	.0		1.4	
	22+	.0	.0	.2	.3	.3	.1	.0	.0	.0		.9	
	TOT %	.1	.0	.5	.4	.7	.9	.3	.2	.0	.2	3.4	
	0-3	.1	*	.0	.0	*	.1	.1	.0	.0	.0	.3	
2<5	4-10	.1	.1	.1	.3	.6	.3	.4	*	.0		1.9	
	11-21	.3	.2	.2	.3	.6	1.0	.1	.3	.0		3.0	
	22+	.1	.1	.2	.3	.2	.2	.1	.1	.0		1.3	
	TOT %	.5	.4	.5	.9	1.5	1.7	.7	.4	.0	.0	6.5	
	0-3	.1	.0	.1	.3	*	.3	.3	*	.0	.2	1.3	
5<10	4-10	.5	.4	.6	1.0	1.4	2.5	2.2	1.4	.0		10.1	
	11-21	.5	1.0	.6	1.8	2.7	3.4	1.6	1.0	.0		12.6	
	22+	.2	.1	.3	.6	.5	.9	.4	.5	.0		3.4	
	TOT %	1.3	1.4	1.5	3.7	4.6	7.0	4.6	2.9	.0	.2	27.4	
	0-3	.4	.2	.4	.4	.5	.6	.3	.3	.0	1.4	4.5	
10+	4-10	1.3	1.3	.9	1.2	3.2	3.5	3.3	3.1	.0		17.9	
	11-21	2.0	1.1	1.4	1.0	3.4	4.4	4.8	5.1	.0		23.3	
	22+	.5	.1	.5	.3	.6	1.1	.9	.9	.0		4.9	
	TOT %	4.2	2.7	3.2	3.0	7.7	9.6	9.3	9.4	.0	1.4	50.6	
	TOT OBS												1242
	TOT PCT	6.2	5.1	7.1	9.6	17.5	22.2	16.3	13.9	.0	2.4	100.0	

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PERIOD: (PRIMARY) 1944-1970
(OVER-ALL) 1887-1970

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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	11.9	1.5	1.0	7.4	11.4	6.4	3.5	.5	1.5	1.5	46.5	53.5	202
06&09	9.9	.5	1.5	5.4	14.4	6.4	2.0	.0	2.5	3.5	46.0	54.0	202
12&15	15.2	.3	1.0	3.8	10.7	6.9	3.1	7.6	6.9	.3	55.9	44.1	290
18&21	12.7	.4	3.0	5.9	9.7	8.4	1.7	2.1	.8	2.1	46.8	53.2	237
TOT	118	6	15	51	106	66	24	28	30	16	460	471	931
PCT	12.7	.6	1.6	5.5	11.4	7.1	2.6	3.0	3.2	1.7	49.4	50.6	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	9.4	3.2	1.1	5.0	33.5	47.8	278
06&09	11.1	3.2	2.0	5.6	26.6	51.6	252
12&15	7.3	5.2	5.0	7.3	27.4	47.8	423
18&21	7.9	2.3	4.9	7.6	22.1	55.8	303
TOT	109	46	49	82	343	634	1256
PCT	8.7	3.7	3.9	6.5	27.3	50.5	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	12.1	15.7	26.8	22.7	50.5	198
06&09	10.1	13.1	24.2	24.7	51.0	198
12&15	15.9	17.6	28.0	29.1	42.9	289
18&21	12.9	16.4	29.3	19.8	50.9	232
TOT	120	146	250	224	443	917
PCT	13.1	15.9	27.3	24.4	48.3	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	.1	.1	.0	.0	2	.3
75/79	.0	.0	.0	.3	.3	.3	.2	.0	8	1.2
70/74	.0	.0	.1	.3	.9	1.3	1.8	1.0	37	5.5
65/69	.0	.0	.0	.1	1.0	3.8	5.5	8.6	129	19.1
60/64	.0	.0	.0	.0	1.2	5.8	16.4	20.2	295	43.6
55/59	.0	.0	.0	.1	1.5	5.9	7.2	11.1	175	25.8
50/54	.0	.0	.0	.1	.4	1.0	1.2	1.6	30	4.4
45/49	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	0	1	7	37	124	220	288	677	100.0
PCT	.0	.0	.1	1.0	5.5	18.3	32.5	42.5		

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	.0	.0	*	.3	.6	.1	.2	.0	.0
	.3	.0	.3	.2	1.4	2.1	.1	.7	.0	.3
	1.0	.5	.4	2.4	5.0	6.0	2.4	1.2	.0	.1
	.9	2.5	3.1	4.2	7.6	11.6	6.9	6.4	.0	.3
	2.7	1.3	2.0	2.0	3.9	3.3	4.8	4.9	.0	.9
	.6	.9	.4	.0	.2	.1	1.3	.9	.0	.0
	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
	5.5	5.4	6.3	8.8	18.7	23.7	15.7	14.3	.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	82	74	69	61	55	52	50	61.7	319
06&09	68	67	65	60	55	38	35	59.7	274
12&15	79	73	69	62	55	52	49	62.1	449
18&21	80	78	72	63	56	52	51	63.5	325
TOT	82	74	70	62	55	51	35	61.9	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	1.1	3.4	17.5	28.2	49.7	88	177
06&09	.0	.0	2.6	15.8	35.5	46.1	88	152
12&15	.0	2.6	5.3	18.0	33.3	40.7	86	189
18&21	.0	.6	10.3	21.8	32.7	34.5	84	165
TOT	0	8	37	125	221	292	87	683

PERIOD: (PRIMARY) 1944-1970
(OVER-ALL) 1887-1970

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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	49	53	57	61	65	69	73	77	81	TOT	W	WO
TMP DIF	52	56	60	64	68	72	76	80	84		FOG	FOG
23/25	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
20/22	.0	.0	.0	.1	.1	.0	.0	.0	.0	2	.0	.2
17/19	.0	.0	.1	.0	.0	.0	.1	.0	.1	3	.0	.4
14/16	.0	.0	.0	.0	.1	.1	.2	.1	.0	5	.0	.6
11/13	.0	.0	.0	.0	.5	.1	.5	.1	.0	10	.2	.9
9/10	.0	.0	.0	.6	.2	.4	.6	.2	.0	17	.2	1.8
7/8	.0	.0	.8	1.6	1.5	1.1	.2	.0	.0	45	.7	4.6
6	.0	.0	.5	1.2	.9	.9	.2	.0	.0	32	.7	3.1
5	.0	.1	.4	3.1	1.4	.9	.1	.1	.0	52	1.1	5.1
4	.0	.2	1.4	3.2	2.1	.8	.1	.0	.0	67	1.4	6.5
3	.0	.2	3.2	3.8	2.5	.4	.0	.0	.0	85	2.5	7.5
2	.0	.9	4.1	4.8	2.8	.8	.0	.0	.0	112	1.5	11.6
1	.0	.7	3.6	3.8	1.9	.1	.0	.0	.0	86	2.0	8.1
0	.0	.9	5.1	4.3	1.4	.0	.0	.0	.0	100	1.6	10.1
-1	.0	1.2	4.1	2.7	.6	.0	.0	.0	.0	73	.4	8.2
-2	.6	1.1	2.9	2.2	.7	.0	.0	.0	.0	64	.7	6.8
-3	.1	.9	2.7	.9	.0	.0	.0	.0	.0	40	.6	4.1
-4	.2	.7	.8	.7	.0	.0	.0	.0	.0	21	.1	2.4
-5	.2	.4	.9	.4	.0	.0	.0	.0	.0	16	.1	1.8
-6	.1	.8	.5	.0	.0	.0	.0	.0	.0	12	.1	1.3
-7/-8	.1	.2	.2	.1	.0	.0	.0	.0	.0	6	.1	.6
-9/-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-11/-19	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.1	.0
TOTAL	14		267		144		18		1		121	730
		72		285		49		5		851		
PCT	1.6	8.5	31.4	33.5	16.9	5.9	2.1	.6	.1	100.0	14.2	85.8

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	.4	.3	.0	.0	.0	.0	.7
1-2	.0	1.1	.4	.0	.0	.0	1.5
3-4	.0	1.2	1.7	.0	.0	.0	2.9
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	.4	2.5	3.8	.0	.0	.0	6.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.4	.3	.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	.8	.0	.0	.0	.8
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	.8	1.3	.0	.0	.0	2.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.6
1-2	.3	1.0	.3	.0	.0	.0	1.6
3-4	.0	.4	.4	.0	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.4	.3	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.7	.0	.7
13-16	.0	.0	.0	.0	.3	.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	1.7	1.5	.3	1.1	.0	5.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.5	.0	.0	.0	.0	1.1
1-2	.1	1.6	.1	.0	.0	.0	1.8
3-4	.0	.6	.5	.4	.0	.0	1.6
5-6	.0	.0	2.2	.4	.0	.0	2.6
7	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.4	.4	.0	.8
12	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.0	.1	.0	.1
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	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	2.8	3.9	1.9	.6	.0	9.9

PERIOD: (OVER-ALL) 1963-1970

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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	.8	1.9	.0	.0	.0	.0	2.8
1-2	.4	2.1	2.3	.0	.0	.0	4.9
3-4	.0	2.6	4.6	.0	.0	.0	7.2
5-6	.0	.4	3.6	.0	.0	.0	4.0
7	.0	.3	1.1	.0	.0	.0	1.4
8-9	.0	.0	.8	.3	.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	.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	1.3	7.8	12.4	.3	.0	.0	21.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.6	.0	.0	.0	.0	1.1
1-2	.1	3.0	4.9	.0	.0	.0	7.9
3-4	.4	1.6	3.7	.4	.0	.0	6.1
5-6	.0	.4	3.1	.4	.0	.0	3.9
7	.0	.1	.5	.8	.0	.0	1.5
8-9	.0	.0	.4	.4	.0	.0	.8
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	1.0	5.7	12.6	2.5	.0	.0	21.8

W

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	.7	2.9	1.7	.0	.0	.0	5.3
3-4	.0	1.1	4.7	.3	.0	.0	6.0
5-6	.0	.0	2.1	.0	.0	.0	2.1
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.8	.4	.0	.0	1.3
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	.7	5.4	10.1	.7	.0	.0	16.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.6	.0	.0	.0	.0	.6	
1-2	.0	1.7	1.3	.0	.0	.0	3.0	
3-4	.0	1.4	3.9	.1	.0	.0	5.4	
5-6	.0	.0	3.4	.0	.0	.0	3.4	
7	.0	.0	.0	.4	.0	.0	.4	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.1	.0	.0	.0	.1	
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	3.7	8.7	1.0	.0	.0	13.3	98.3

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	6.3	.0	.0	.0	.0	11.0	
1-2	2.1	13.5	11.0	.0	.0	.0	26.6	
3-4	.4	8.9	19.4	1.3	.0	.0	30.0	
5-6	.0	.8	15.6	.8	.0	.0	17.3	
7	.0	.4	4.6	1.3	.0	.0	6.3	
8-9	.0	.0	3.0	1.7	.0	.0	4.6	
10-11	.0	.0	.4	.8	.4	.0	1.7	
12	.0	.0	.0	.4	.8	.0	1.3	
13-16	.0	.0	.0	.0	.4	.0	.4	
17-19	.0	.4	.0	.0	.0	.0	.4	
20-22	.0	.0	.0	.4	.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	
								237
TOT PCT	7.2	30.4	54.0	6.8	1.7	.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	2.3	12.6	21.2	9.9	2.0	.3	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	296	3
6-7	.2	1.5	7.4	6.9	7.1	2.3	1.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	166	5
8-9	.0	.3	1.7	1.8	1.7	.8	.5	.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	7
10-11	.0	.2	.0	.3	.8	.5	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	7
12-13	.0	.0	.2	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
>13	.0	.0	.0	.0	.0	.2	.2	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	4	14
INDET	4.3	2.3	3.1	1.7	.0	.5	.2	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	75	3
TOTAL	41	102	203	125	71	28	18	7	7	1	2	0	0	0	0	0	0	0	0	605	4
PCT	6.8	16.9	33.6	20.7	11.7	4.6	3.0	1.2	1.2	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1946-1970
(OVER-ALL) 1860-1970

AREA 0006 CABOT STRAIT
46.7N 58.4W

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	2.9	1.8	.5	.0	.0	.0	.0	5.3	1.5	.0	2.7	.0	1.1		.0	89.4
NE	3.4	.3	3.0	.0	.0	.0	.0	6.4	2.7	.0	11.7	.0	1.7		.0	77.5
E	13.0	.8	7.9	.0	.0	.0	.0	18.7	1.6	.0	22.8	.0	.0		.0	56.9
SE	13.1	.2	3.6	.0	.0	.0	.0	16.9	2.9	.0	27.1	.0	4.3		.0	48.8
S	9.7	2.0	3.8	.0	.0	.0	.0	12.7	3.1	.0	18.9	.4	3.1		.0	61.7
SW	6.5	3.1	.1	.0	.0	.0	.0	9.7	4.0	.2	11.7	.6	1.5		.0	72.3
W	1.1	1.2	1.3	.0	.0	.0	.0	3.6	1.9	.2	5.1	.3	1.2		.0	87.7
NW	1.6	2.5	.9	.0	.0	.0	.0	5.1	2.2	.4	4.0	.0	.6		.0	87.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	3.7	.0	3.7	.0	.0	.0	.0	7.4	.0	.0	14.8	.0	.0		.0	77.8
TOT PCT	5.2	1.7	2.0	.0	.0	.0	.0	8.5	2.5	.1	10.9	.2	1.5		.0	76.2
TOT OBS:	1372															

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	5.5	2.0	.9	.0	.0	.0	.0	8.4	2.0	.3	11.9	.3	1.7		.0	75.6
06&09	8.3	1.4	2.9	.0	.0	.0	.0	10.5	3.1	.7	9.4	.0	.7		.0	73.6
12&15	5.8	2.6	2.8	.0	.0	.0	.0	10.7	1.5	.0	14.6	.2	1.1		.0	71.9
18&21	1.9	.3	1.3	.0	.0	.0	.0	3.5	1.9	.0	8.2	.3	2.5		.0	83.6
TOT PCT	5.3	1.7	2.0	.0	.0	.0	.0	8.5	2.4	.2	11.5	.2	1.5		.0	75.8
TOT OBS:	1404															

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	2.9	4.2	1.4	.5	.0		9.3	15.4	9.4	6.7	7.3	8.0	11.3	7.7	12.4	8.4
NE	.7	2.0	2.0	.4	.1	.0		5.2	11.6	4.2	2.8	6.2	4.7	8.0	5.4	4.0	3.6
E	.3	2.3	3.1	.9	.4	.0		7.0	13.3	5.4	5.3	4.5	5.4	7.1	17.9	2.7	6.1
SE	.7	3.3	2.9	1.2	.3	.1		7.9	14.1	8.5	7.5	4.4	9.4	6.4	9.7	10.8	6.6
S	.8	3.6	6.1	2.0	.4	.1		13.0	14.9	14.5	13.1	13.5	16.7	14.5	8.3	12.5	11.1
SW	.6	6.7	7.2	2.2	.2	*		16.9	13.5	17.3	18.3	19.6	15.6	18.8	14.3	16.4	12.5
W	.2	6.1	8.8	4.3	1.0	.2		20.6	16.9	20.4	24.2	18.6	20.5	17.7	17.1	23.0	31.1
NW	.2	4.4	8.5	4.1	.8	.0		18.1	17.2	19.2	20.0	24.5	18.8	13.7	16.9	16.5	17.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0	1.0	2.2	1.5	.9	2.5	2.8	1.8	2.7
TOT OBS	87	474	638	248	56	6	1509		15.0	286	90	195	112	282	214	220	110
TOT PCT	5.8	31.4	42.3	16.4	3.7	.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	1.8	3.7	2.8	.8	.1		9.3	15.4	8.8	7.6	9.7	11.1
NE	1.7	2.3	1.0	.2	.0		5.2	11.6	3.9	5.6	6.9	3.9
E	1.4	3.0	2.0	.5	.2		7.0	15.3	5.4	4.8	11.7	3.9
SE	2.3	3.3	1.2	1.0	.2		7.9	14.1	8.2	6.2	7.8	9.4
S	2.3	5.8	3.8	.9	.1		13.0	14.9	14.2	14.7	11.8	12.0
SW	3.0	8.8	4.4	.6	.1		16.9	13.5	17.6	18.2	16.8	15.1
W	2.5	9.5	5.7	2.4	.5		20.6	16.9	21.3	19.3	17.4	25.7
NW	1.4	7.6	6.7	2.2	.1		18.1	17.2	19.4	22.4	15.1	16.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.9						1.9	.0	1.3	1.3	2.6	2.1
TOT OBS	275	666	416	132	20	1509		15.0	376	307	496	330
TOT PCT	18.2	44.1	27.6	8.7	1.3		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1946-1970
(OVER-ALL) 1860-1970

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46.7N 58.4W

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
00603	1.3	4.0	31.6	46.8	13.0	3.2	.0	14.3	100.0	376
06609	1.3	2.0	30.3	46.3	16.6	2.9	.7	15.3	100.0	307
12615	2.6	6.0	31.7	38.9	15.9	4.2	.6	15.0	100.0	496
18621	2.1	2.1	31.8	38.5	20.9	4.2	.3	15.8	100.0	330
TOT	29	58	474	638	248	56	6	15.0		1509
PCT	1.9	3.8	31.4	42.3	16.4	3.7	.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	3.0	1.5	3.2	2.4		4.7
NE	1.2	.8	1.1	1.0		5.0
E	.8	.3	1.4	4.5		6.6
SE	.3	.2	1.6	5.2		7.2
S	2.3	1.2	2.7	5.7		5.7
SW	5.6	1.5	3.3	6.0		4.8
W	8.7	3.0	5.2	3.8		3.9
NW	7.4	4.3	4.7	3.1		3.9
VAR	.0	.0	.0	.0		.0
CALM	1.2	.2	.1	.7		3.4
TOT OBS	313	134	241	341	1029	4.8
TOT PCT	30.4	13.0	23.4	33.1	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	.3	.0	.3	.7	.8	1.0	.4	.2	.7	.0	5.7	
NE	.7	.0	.2	.2	.4	.6	.2	.0	*	.0	2.6	
E	1.7	.1	.2	.0	1.0	1.0	.1	.6	.5	.1	1.6	
SE	1.8	.1	.4	1.5	1.2	.6	.1	.2	.4	.0	1.1	
S	1.7	.2	*	.7	1.4	1.3	.6	.4	.2	.2	5.1	
SW	1.8	*	.1	.7	1.8	.9	.4	.5	.7	.2	9.2	
W	1.0	.1	.0	.7	1.9	1.5	.6	.3	.9	.5	13.3	
NW	.6	.0	.1	.9	1.3	1.3	.8	.5	.6	.3	13.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.0	.1	.4	.0	.1	.1	.0	1.4	
TOT OBS	100	4	14	55	103	89	34	29	43	13	544	1029
TOT PCT	9.7	.4	1.4	5.3	10.0	8.6	3.3	2.8	4.2	1.3	52.9	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	3.7	5.2	5.3	5.3	5.3	5.3	5.3	5.3
* OR >5000	5.3	7.5	8.1	8.1	8.1	8.1	8.1	8.1
* OR >3500	8.0	10.9	11.4	11.4	11.4	11.4	11.4	11.4
* OR >2000	13.3	19.1	19.7	19.7	19.8	19.8	19.8	19.8
* OR >1000	19.2	27.4	29.4	29.5	29.6	29.6	29.7	29.8
* OR >600	22.0	32.1	34.4	34.8	35.0	35.0	35.1	35.2
* OR >300	22.5	33.2	36.0	36.1	36.6	36.6	36.7	36.8
* OR >150	22.5	33.3	36.3	36.4	37.0	37.0	37.1	37.2
* OR > 0	22.6	33.8	37.1	39.2	41.7	42.7	45.7	47.3
TOTAL	231	346	380	401	427	437	467	484

TOTAL NUMBER OF OBS: 1023

PCT FREQ NH <5/8: 52.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
19.3	9.9	10.4	6.8	5.8	5.4	7.0	8.9	17.2	9.3	1084

PERIOD: (PRIMARY) 1946-1970
(OVER-ALL) 1860-1970

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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
	PCP	.0	.0	.0	.0	.0	.2	.1	*	.0	.0	.4	
<1/2	NO PCP	.2	.4	.1	1.0	1.2	1.1	.6	.3	.0	.1	5.0	
	TOT %	.2	.4	.1	1.0	1.2	1.3	.7	.3	.0	.1	5.4	
	PCP	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.4	
1/2<1	NO PCP	*	.1	.6	.3	.6	.4	.2	*	.0	.0	2.3	
	TOT %	*	.1	.6	.4	.8	.5	.2	*	.0	.0	2.7	
	PCP	.1	*	.2	.2	.2	.1	.0	*	.0	.0	.8	
1<2	NO PCP	.0	.0	.6	.2	.2	.1	.1	.2	.0	.0	1.4	
	TOT %	.1	*	.8	.4	.4	.2	.1	.2	.0	.0	2.2	
	PCP	.2	.1	.5	.4	.4	.4	.1	*	.0	.0	2.2	
2<5	NO PCP	.1	*	.2	.6	.7	.4	.3	.1	.0	.1	2.5	
	TOT %	.3	.1	.7	1.0	1.1	.9	.3	.2	.0	.1	4.7	
	PCP	.3	.2	.2	.5	.8	.8	.5	.4	.0	.1	3.8	
5<10	NO PCP	2.0	1.4	1.4	1.3	2.4	4.2	5.3	4.3	.0	.2	22.5	
	TOT %	2.3	1.6	1.6	1.8	3.2	4.9	5.7	4.7	.0	.4	26.3	
	PCP	.0	.0	.3	.1	.0	.0	.1	.4	.0	.0	.9	
10+	NO PCP	7.2	3.1	2.5	2.9	6.0	8.9	14.0	12.1	.0	1.4	57.8	
	TOT %	7.2	3.1	2.8	3.0	6.0	8.9	14.1	12.5	.0	1.4	58.7	
	TOT OBS												1371
	TOT PCT	10.0	5.4	6.7	7.6	12.8	16.3	21.2	18.0	.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
	0-3	.0	.0	.0	.4	.1	.1	.1	*	.0	.1	.8	
<1/2	4-10	.1	.4	.1	.4	.6	.6	.5	.1	.0		2.7	
	11-21	.1	.1	.0	.2	.4	.6	.2	.1	.0		1.6	
	22+	.0	.0	.1	.0	.1	.1	.0	.0	.0		.3	
	TOT %	.2	.4	.2	.9	1.3	1.3	.8	.3	.0	.1	5.5	
	0-3	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	
1/2<1	4-10	.0	.1	.2	.3	.4	.1	.2	*	.0		1.2	
	11-21	.0	.0	.3	.1	.1	.3	*	.0	.0		.8	
	22+	*	*	.0	.0	.3	.1	.0	.0	.0		.4	
	TOT %	*	.1	.6	.4	.8	.5	.2	*	.0	.0	2.6	
	0-3	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	
1<2	4-10	.0	.0	.2	.3	.1	.0	.0	.1	.0		.8	
	11-21	.1	*	.2	.1	.0	.1	.1	.1	.0		.6	
	22+	.0	.0	.3	.2	.3	*	.0	.0	.0		.8	
	TOT %	.1	*	.7	.5	.4	.2	.1	.2	.0	.0	2.2	
	0-3	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	.2	
2<5	4-10	.0	.0	.2	.4	.1	.4	.1	.1	.0		1.3	
	11-21	.1	*	.4	.2	.5	.1	.1	.1	.0		1.5	
	22+	.2	.1	.1	.3	.4	.3	.2	.1	.0		1.6	
	TOT %	.2	.1	.7	1.0	1.1	.8	.3	.2	.0	.1	4.6	
	0-3	.1	.4	.1	.1	.3	.2	.0	.0	.0	.4	1.5	
5<10	4-10	.7	.4	.6	.5	.9	1.6	1.5	1.3	.0		7.5	
	11-21	1.1	.7	.8	.6	1.3	2.2	2.0	1.7	.0		10.3	
	22+	.3	.1	.2	.5	.6	.9	2.1	1.6	.0		6.4	
	TOT %	2.2	1.6	1.7	1.8	3.1	4.9	5.6	4.6	.0	.4	25.8	
	0-3	.2	.3	.1	.1	.4	.2	.1	.1	.0	1.3	2.8	
10+	4-10	2.3	1.1	.8	1.4	1.5	4.1	4.0	3.0	.0		18.2	
	11-21	3.1	1.3	1.3	1.0	3.6	4.0	6.6	6.4	.0		27.3	
	22+	1.4	.3	.6	.4	.7	1.1	3.5	2.9	.0		11.0	
	TOT %	7.0	3.0	2.7	2.9	6.3	9.4	14.2	12.4	.0	1.3	59.3	
	TOT OBS												1423
	TOT PCT	9.7	5.2	6.7	7.6	12.9	17.0	21.1	17.8	.0	1.9	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1946-1970
(OVER-ALL) 1860-1970

AREA 0006 CABOT STRAIT
46.7N 58.4W

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	9.7	1.3	2.5	3.8	7.6	10.6	3.0	.8	1.7	1.7	42.8	57.2	236
06&09	10.8	.0	.9	5.6	9.9	9.1	3.0	.0	3.0	1.3	43.5	56.5	232
12&15	12.8	.6	1.2	5.5	9.6	6.1	2.0	7.0	7.6	.3	52.6	47.4	344
18&21	6.0	.0	1.6	5.6	11.7	8.9	5.2	1.2	2.4	2.0	44.8	55.2	248
TOT	107	5	16	55	103	89	34	29	43	13	494	566	1060
PCT	10.1	.5	1.5	5.2	9.7	8.4	3.2	2.7	4.1	1.2	46.6	53.4	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	8.8	1.7	.3	3.9	30.4	55.0	362
06&09	5.5	1.7	3.1	4.5	23.8	61.4	290
12&15	4.9	5.3	4.0	6.6	24.3	55.0	473
18&21	5.5	.9	.9	2.1	24.8	65.8	330
TOT	89	39	32	65	376	854	1455
PCT	6.1	2.7	2.2	4.5	25.8	58.7	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	10.2	15.5	19.9	24.8	55.3	226
06&09	10.0	11.9	19.2	26.0	54.8	219
12&15	12.7	19.7	26.9	28.1	45.0	338
18&21	6.7	8.8	16.3	30.0	53.8	240
TOT	104	135	217	280	526	1023
PCT	10.2	13.2	21.2	27.4	51.4	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
70/74	.0	.0	.0	.0	.1	.1	.0	.4	5	.6
65/69	.0	.0	.0	.0	.2	.6	1.5	2.1	36	4.4
60/64	.0	.0	.1	.1	1.2	3.1	8.2	10.6	190	23.4
55/59	.0	.0	.1	.7	2.8	8.5	12.9	11.9	301	37.0
50/54	.0	.0	.1	1.2	4.2	7.3	7.4	7.1	222	27.3
45/49	.0	.0	.0	.5	1.0	2.1	1.4	1.8	55	6.8
40/44	.0	.0	.0	.0	.1	.1	.2	.0	4	.5
TOTAL	0	0	3	21	79	177	257	276	813	100.0
PCT	.0	.0	.4	2.6	9.7	21.8	31.6	33.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.0	.2	.2	.1	.0	.0	.0	.0
.5	.2	.1	.5	1.5	1.2	.1	.2	.0	.1
2.0	.9	.6	2.2	5.4	6.9	3.1	2.2	.0	.2
3.6	2.2	2.1	3.3	4.4	5.6	8.7	7.0	.0	.1
3.4	2.1	1.4	1.8	1.5	2.5	7.6	6.4	.0	.6
.8	.4	.2	.3	.2	.3	2.2	1.9	.0	.5
.1	.1	.1	.0	.0	.0	.1	.0	.0	.0
10.5	6.1	4.4	8.2	13.2	16.5	21.8	17.6	.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	71	68	64	56	48	45	43	56.3	385
06&09	76	66	63	56	47	34	34	55.4	315
12&15	73	70	64	57	49	45	44	57.1	497
18&21	74	70	65	57	50	47	46	57.4	337
TOT	76	68	64	57	48	45	34	56.6	1534

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	10.3	21.0	32.2	34.8	84	233
06&09	.0	3.0	5.6	22.8	28.4	40.1	85	197
12&15	.0	1.5	9.8	16.6	34.6	37.6	85	205
18&21	.0	5.7	12.5	26.0	29.2	26.6	81	192
TOT	0	24	79	178	258	288	84	827

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PERIOD: (PRIMARY) 1946-1970
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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	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
14/16	.0	.0	.0	.0	.3	.0	.0	.0	.0	.1	4	.1	.3
11/13	.0	.0	.0	.0	.0	.2	.0	.4	.0	.0	6	.0	.6
9/10	.0	.0	.0	.0	.3	.3	.5	.1	.1	.0	13	.3	.9
7/8	.0	.0	.0	.2	.9	.8	.9	.8	.1	.0	38	.6	3.0
6	.0	.0	.0	.3	.9	.9	.6	.4	.0	.0	33	.5	2.7
5	.0	.0	.1	.0	.9	2.1	1.9	.4	.1	.0	58	.8	4.7
4	.0	.0	.2	.2	.7	2.0	2.4	.3	.0	.0	60	.6	5.1
3	.0	.0	.3	.4	1.7	2.9	1.7	.5	.0	.0	79	1.0	6.4
2	.1	.0	.0	.5	2.4	2.2	3.3	.2	.0	.0	91	1.6	7.0
1	.0	.0	.2	.7	2.7	4.9	2.8	.2	.0	.0	121	1.1	10.3
0	.0	.0	.3	1.3	3.9	4.0	1.1	.1	.0	.0	113	1.2	9.5
-1	.0	.0	.1	1.6	3.7	2.8	.9	.0	.0	.0	97	.4	8.8
-2	.0	.0	.7	1.6	3.2	2.0	.9	.0	.0	.0	88	1.2	7.1
-3	.0	.0	.4	1.8	2.9	1.4	.1	.0	.0	.0	70	.4	6.3
-4	.0	.0	.6	1.1	2.8	1.0	.2	.0	.0	.0	61	.4	5.4
-5	.0	.1	.4	1.5	1.5	.7	.0	.0	.0	.0	44	.1	4.1
-6	.0	.1	.5	1.1	.7	.2	.0	.0	.0	.0	27	.0	2.6
-7/-8	.0	.1	.4	1.0	.6	.1	.0	.0	.0	.0	23	.0	2.2
-9/-10	.0	.4	.2	.4	.6	.1	.0	.0	.0	.0	17	.0	1.6
-11/-13	.0	.0	.2	.2	.3	.0	.0	.0	.0	.0	7	.0	.7
-14/-16	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	3	.0	.3
-17/-19	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	7	47	148	326	304	183	34	3	1	1055	108	947
PCT	.2	.7	4.5	14.0	30.9	28.8	17.3	3.2	.3	.1	100.0	10.2	89.8

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	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	1.8	2.8	.6	.0	.0	5.3
5-6	.0	.0	1.1	1.8	.0	.0	3.0
7	.0	.0	1.3	.7	.4	.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
TOT PCT	.0	3.8	5.3	3.2	.4	.0	12.5

NE

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	1.1	.0	.0	.0	.0	1.1
3-4	.4	.8	1.1	.0	.0	.0	2.2
5-6	.0	.0	.7	.4	.0	.0	1.1
7	.0	.0	.1	.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	3.0	1.8	.7	.0	.0	5.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	.5	.0	.0	.0	.0	.5
3-4	.0	.0	.7	.0	.0	.0	.7
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	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.5	.3	.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	.0	1.2	2.2	1.5	.3	.0	5.2

SE

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	.8	.0	.0	.0	3.2
3-4	.0	.7	1.1	.1	.0	.0	1.9
5-6	.0	.4	.2	.1	.0	.0	.6
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	1.4	.0	.0	1.4
13-16	.0	.0	.0	1.2	.1	.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	.4	4.1	2.8	2.8	.1	.0	10.1

PERIOD: (OVER-ALL) 1963-1970 SEPTEMBER AREA 0006 CABOT STRAIT

TABLE 18 (CONT) 46.7N 58.4W

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	1.1	.2	.0	.0	.0	1.2
1-2	.3	2.0	1.6	.0	.0	.0	3.9	.0	2.1	1.2	.0	.0	.0	3.3
3-4	.0	1.5	3.2	.9	.0	.0	5.6	.0	1.8	1.7	.4	.0	.0	3.9
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.4	1.1	.4	.0	.0	2.0
7	.0	.0	.9	.0	.0	.0	.9	.0	.0	.5	.4	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.7
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	.3	4.6	6.3	.9	.0	.0	12.0	.0	5.4	9.1	2.4	.0	.0	12.9

	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	.9	.0	.0	.0	1.1	.0	.9	.0	.0	.0	.0	.9	
1-2	.0	1.9	1.8	.0	.0	.0	3.8	.0	1.6	1.6	.0	.0	.0	3.2	
3-4	.0	2.5	3.9	.7	.0	.0	7.2	.0	1.3	5.4	1.5	.0	.0	8.2	
5-6	.0	.3	1.7	1.0	.4	.0	3.2	.0	.0	2.1	.3	.0	.0	2.4	
7	.0	.0	.3	.6	.0	.0	.9	.0	.4	1.4	1.1	.4	.0	3.2	
8-9	.0	.0	.4	1.2	.0	.0	1.6	.0	.0	.4	.8	.4	.0	1.5	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	1.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	
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	5.0	8.9	3.5	.4	.0	17.8	.0	4.1	10.9	5.8	.7	.0	21.5	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	2.1	7.0	1.0	.0	.0	.0	10.1	
1-2	1.0	12.2	7.0	.0	.0	.0	20.3	
3-4	.3	10.5	19.9	4.2	.0	.0	35.0	
5-6	.0	1.0	8.7	4.2	.3	.0	14.3	
7	.0	.3	4.9	3.1	.7	.0	9.1	
8-9	.0	.0	.7	2.8	.3	.0	3.8	
10-11	.0	.0	.7	2.1	.0	.0	2.8	
12	.0	.0	.0	2.1	.0	.0	2.1	
13-16	.0	.0	.0	2.1	.3	.0	2.4	
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	3.5	31.1	43.0	20.6	1.7	.0	100.0	286

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	2.0	11.0	19.1	9.1	3.0	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	286	3
6-7	.2	.8	8.8	6.5	5.8	3.6	1.6	.8	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	181	6
8-9	.0	.3	.8	1.4	3.0	.5	1.3	1.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	62	8
10-11	.0	.0	.6	.6	.8	.3	.5	.3	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	22	8
12-13	.0	.0	.3	.0	.5	.6	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	8
>13	.0	.0	.0	.2	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	11
INDET	2.2	2.2	3.1	1.1	1.3	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	3
TOTAL	28	91	208	120	91	97	26	19	12	2	0	0	1	0	0	0	0	0	0	635	5
PCT	4.4	14.3	32.8	18.9	14.3	5.8	4.1	3.0	1.9	.3	.0	.0	.2	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1951-1970
(OVER-ALL) 1886-1970

AREA 0006 CABOT STRAIT
46.6N 58.5W

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 WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.1	1.2	.0	.0	1.1	.0	.0	5.9	1.5	.0	2.3	.0	.0		.0	90.3
NE	18.9	1.7	1.2	.0	1.4	.0	.0	22.6	.7	.0	2.1	.0	.0		.0	74.5
E	15.0	2.2	8.5	.0	.7	.0	.0	24.7	3.2	.0	18.0	.0	.7		.0	53.4
SE	20.1	1.3	4.5	.0	.9	.0	.0	26.8	3.0	.4	17.5	.0	2.4		.0	49.9
S	9.0	1.8	2.8	.0	.0	.0	.0	13.6	1.9	.8	10.7	.0	1.4		.0	71.6
SW	4.1	2.0	.9	.0	.0	.0	.0	7.0	1.9	.0	9.3	.6	2.0		.5	78.9
W	2.3	2.6	.4	.0	1.2	.0	.2	6.7	4.4	.0	3.2	.7	2.4		.0	82.7
NW	2.4	2.9	1.6	.0	1.6	.0	.2	8.7	2.5	.0	1.8	.0	1.1		.0	85.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	11.1	.0	3.7	.0	.0	.0	.0	14.8	.0	.0	29.6	.0	3.7		.0	51.9
TOT PCT	7.4	2.0	2.0	.0	.8	.0	.1	12.1	2.5	.1	7.3	.2	1.4		.1	76.2
TOT OBS:	1417															

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 WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	7.3	.6	1.2	.0	.6	.0	.3	9.8	2.1	.3	8.0	.3	.6		.0	78.9
06&09	9.1	1.8	3.6	.0	1.8	.0	.0	16.4	2.2	.4	4.4	.7	.7		.0	75.2
12&15	7.1	3.4	1.9	.0	.2	.0	.0	12.6	1.9	.0	8.8	.2	1.7		.0	74.8
18&21	6.9	1.6	1.8	.0	1.1	.0	.0	10.8	3.4	.0	7.7	.0	2.1		.3	75.7
TOT PCT	7.5	2.0	2.1	.0	.8	.0	.1	12.2	2.4	.1	7.5	.3	1.4		.1	76.0
TOT OBS:	1456															

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	2.1	4.8	3.6	.7	.0		11.6	18.9	11.7	13.0	9.7	15.9	12.2	12.9	10.3	11.3
NE	.4	1.9	2.4	2.3	.5	.0		7.5	18.0	5.9	5.7	8.3	18.1	9.5	6.2	5.1	7.5
E	.1	1.8	3.2	1.5	.4	.1		7.1	17.4	5.3	16.3	6.1	3.6	7.4	10.8	5.4	7.2
SE	.3	2.7	2.5	2.0	.5	.1		8.1	17.4	10.2	7.3	6.9	5.8	7.8	7.8	8.5	7.2
S	.8	3.5	3.9	2.0	.6	.1		12.9	15.3	12.0	12.0	17.1	14.1	10.6	11.9	15.2	7.2
SW	.9	4.8	6.5	2.6	.2	.0		15.1	14.3	15.6	17.0	16.1	15.6	16.6	13.6	13.8	10.0
W	.6	4.6	7.3	4.4	.9	.2		18.0	17.7	18.1	14.0	18.3	15.9	17.7	18.2	18.8	20.3
NW	.8	4.5	7.7	3.9	.9	.1		17.9	17.1	18.4	14.7	15.9	10.9	16.0	16.8	20.9	29.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	2.7	.0	1.8	.0	2.1	1.7	1.9	.0
TOT OBS	98	404	629	349	73	9	1562		16.5	295	75	227	69	329	174	313	80
TOT PCT	6.3	25.9	40.3	22.3	4.7	.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	.9	3.6	4.7	2.3	.0		11.6	18.9	12.0	11.1	12.4	10.5
NE	1.3	2.0	2.6	1.4	.2		7.5	18.0	5.9	10.6	8.3	5.6
E	.9	3.0	2.2	.7	.2		7.1	17.4	7.6	5.5	8.6	5.8
SE	1.0	3.4	2.3	1.2	.2		8.1	17.4	9.6	6.7	7.8	8.2
S	2.3	5.6	3.9	1.0	.1		12.9	15.3	12.0	16.4	11.0	13.5
SW	2.8	6.6	5.0	.7	*		15.1	14.3	15.9	16.0	15.6	13.0
W	2.5	6.3	6.3	2.5	.4		18.0	17.7	17.3	17.7	17.9	19.1
NW	2.4	6.6	6.2	2.5	.3		17.9	17.1	17.6	14.7	16.3	22.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	2.2	1.4	2.0	1.5
TOT OBS	247	579	519	194	23	1562		16.5	370	296	503	393
TOT PCT	15.8	37.1	33.2	12.4	1.5		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1951-1970
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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	2.2	4.6	28.6	41.1	20.0	3.2	.3	15.5	100.0	370
06&09	1.4	2.7	27.0	40.9	22.6	5.1	.3	16.6	100.0	296
12&15	2.0	5.0	23.9	39.6	22.5	6.2	1.0	17.2	100.0	503
18&21	1.5	5.1	24.9	39.9	24.2	3.8	.5	16.7	100.0	393
TOT	28	70	404	629	349	73	9	16.5		1562
PCT	1.8	4.5	25.9	40.3	22.3	4.7	.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	2.4	1.2	3.7	3.7		5.3
NE	.7	.5	1.7	3.1		6.3
E	.5	.5	1.0	4.6		6.9
SE	1.2	.6	1.3	5.7		6.5
S	3.1	1.3	2.7	7.1		5.7
SW	5.0	1.7	3.2	4.5		4.5
W	4.9	3.0	6.2	4.9		4.8
NW	4.0	2.6	6.0	5.5		5.2
VAR	.0	.0	.0	.0		.0
CALM	.3	.1	.1	1.3		6.3
TOT OBS	239	124	281	437	1081	5.4
TOT PCT	22.1	11.5	26.0	40.4	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	.0	.9	2.3	1.5	.4	.3	.4	.4	4.7	
NE	.3	.1	*	1.0	1.2	.9	.4	.1	.2	*	1.6	
E	1.0	.1	.3	.5	1.1	1.3	.1	.2	.5	.0	1.5	
SE	1.9	.1	.2	1.1	1.4	.8	.3	.0	.1	*	3.0	
S	1.6	.0	.1	.8	1.8	1.9	.3	.3	.5	.6	6.3	
SW	.9	.0	.0	.8	1.4	1.0	.7	.3	.3	.4	8.6	
W	.3	.1	.4	.7	3.0	3.0	.5	.4	.7	.3	9.8	
NW	.2	.1	.2	.9	2.6	3.1	.6	.3	.8	.4	9.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.8	.0	.0	.1	.2	.2	.0	.0	.1	.0	.4	
TOT OBS	77	9	12	73	163	148	36	20	39	23	485	1081
TOT PCT	7.1	.9	1.1	6.8	15.1	13.7	3.3	1.9	3.6	2.1	44.9	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	3.7	4.9	5.6	5.6	5.6	5.7	5.7	5.7
* OR >5000	5.0	6.5	7.3	7.4	7.4	7.6	7.6	7.6
* OR >3500	7.6	9.8	10.7	10.8	10.8	10.9	10.9	10.9
* OR >2000	15.6	22.3	24.2	24.3	24.3	24.5	24.5	24.5
* OR >1000	24.2	34.9	38.4	39.0	39.1	39.4	39.5	39.5
* OR >600	27.3	40.1	45.0	45.7	45.9	46.3	46.4	46.4
* OR >300	27.7	40.9	46.0	46.8	47.0	47.4	47.4	47.4
* OR >150	27.9	41.2	46.4	47.3	47.4	47.8	47.9	47.9
* OR > 0	28.1	41.4	47.7	49.7	51.5	53.4	55.4	55.5
TOTAL	308	454	523	545	564	585	607	608

TOTAL NUMBER OF OBS: 1096 PCT FREQ NH <5/8: 44.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
13.3	8.0	8.9	6.9	7.4	5.8	9.0	10.2	23.5	7.0	1141

PERIOD: (PRIMARY) 1951-1970
(OVER-ALL) 1886-1970

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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
	PCP	.0	.2	.2	.2	.0	.1	*	.0	.0	.0	.8	
<1/2	NO PCP	.2	.1	.6	.7	.6	.7	.1	*	.0	.4	3.4	
	TOT %	.2	.3	.8	.9	.6	.8	.2	*	.0	.4	4.2	
	PCP	.0	.0	.0	.2	.1	.1	.1	.1	.0	.1	.6	
1/2<1	NO PCP	.0	.0	.1	.2	.3	.4	.1	.1	.0	.1	1.1	
	TOT %	.0	.0	.1	.4	.3	.4	.1	.1	.0	.1	1.6	
	PCP	.1	.3	.1	.4	.2	.1	.1	.0	.0	.1	1.3	
1<2	NO PCP	.0	.0	.1	.3	.2	.2	.1	.0	.0	.0	.8	
	TOT %	.1	.3	.2	.7	.5	.2	.1	.0	.0	.1	2.2	
	PCP	.2	.3	.9	.7	.7	.2	.1	.3	.0	.1	3.5	
2<5	NO PCP	.1	.2	.5	.7	.7	.7	.9	.2	.0	.1	4.0	
	TOT %	.2	.5	1.4	1.4	1.4	.9	1.0	.5	.0	.1	7.5	
	PCP	.4	.6	.3	.4	.5	.1	.3	.7	.0	.0	3.5	
5<10	NO PCP	2.6	1.7	1.4	1.4	2.8	2.5	2.5	3.9	.0	.3	19.1	
	TOT %	3.0	2.3	1.7	1.7	3.3	2.8	2.8	4.6	.0	.3	22.5	
	PCP	.1	.2	.2	.3	.3	.2	.6	.6	.0	.0	2.5	
10+	NO PCP	8.1	3.8	2.7	2.7	6.4	9.7	12.9	12.3	.0	.8	59.4	
	TOT %	8.2	4.0	2.9	3.0	6.7	10.0	13.3	12.8	.0	.8	61.9	
	TOT OBS												1415
	TOT PCT	11.7	7.5	7.1	8.1	12.7	15.1	17.8	18.1	.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
	0-3	.1	*	.0	.0	.1	.1	.0	.0	.0	.4	.7	
<1/2	4-10	.1	.1	.3	.3	.3	.3	.1	.0	.0		1.6	
	11-21	.0	.1	.3	.2	.2	.3	.1	.0	.0		1.2	
	22+	.1	.1	.2	.2	.1	.1	*	*	.0		.6	
	TOT %	.2	.3	.8	.8	.7	.8	.2	*	.0	.4	4.1	
	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
1/2<1	4-10	.0	.0	.0	.1	.1	.2	.1	.0	.0		.4	
	11-21	.0	.1	.1	.3	.1	.1	.0	.1	.0		.7	
	22+	.0	.0	.0	.1	.1	.1	.1	.1	.0		.4	
	TOT %	.1	.1	.1	.4	.3	.4	.1	.1	.0	.1	1.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1<2	4-10	.0	*	*	.1	.1	.1	.1	.0	.0		.4	
	11-21	.0	.2	.0	.2	.2	.2	.0	.0	.0		.8	
	22+	.1	.1	.2	.3	.2	.1	.1	.0	.0		1.0	
	TOT %	.1	.3	.2	.6	.4	.4	.1	.0	.0	.1	2.3	
	0-3	.0	.0	.0	.1	.1	*	.2	.0	.0	.1	.5	
2<5	4-10	.0	.1	.2	.2	.3	.2	.3	.1	.0		1.2	
	11-21	*	.1	.4	.5	.6	.4	.4	.2	.0		2.5	
	22+	.2	.2	.8	.7	.5	.3	.2	.2	.0		3.1	
	TOT %	.2	.5	1.4	1.4	1.4	.9	1.0	.5	.0	.1	7.3	
	0-3	.2	.1	.0	.0	.2	.1	.1	.2	.0	.3	1.1	
5<10	4-10	.3	.3	.2	.6	1.0	.7	.5	.7	.0		4.3	
	11-21	1.5	.9	1.0	.3	1.5	1.4	1.1	2.2	.0		9.9	
	22+	.9	1.0	.5	.7	.5	.5	1.1	1.4	.0		6.6	
	TOT %	2.9	2.3	1.7	1.6	3.1	2.7	2.8	4.4	.0	.3	21.9	
	0-3	.2	.3	.1	.2	.3	.6	.4	.7	.0	.7	3.5	
10+	4-10	1.7	1.4	1.0	1.3	1.9	3.2	3.5	3.6	.0		17.7	
	11-21	3.3	1.2	1.4	1.0	3.4	4.4	5.8	5.1	.0		25.5	
	22+	3.2	1.3	.5	.7	1.4	1.8	4.0	3.1	.0		16.0	
	TOT %	8.4	4.2	3.0	3.1	7.0	10.0	13.7	12.6	.0	.7	62.7	
	TOT OBS												1472
	TOT PCT	11.8	7.6	7.2	8.0	12.9	15.1	17.9	17.6	.0	1.8	100.0	

OCTOBER

PERIOD: (PRIMARY) 1951-1970
(OVER-ALL) 1886-1970

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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	8.7	.4	.8	7.0	10.7	13.6	2.5	.4	.8	2.1	47.1	52.9	242
06&09	7.5	.9	1.3	5.3	15.5	14.6	4.0	.4	2.7	2.7	54.9	45.1	226
12&15	8.8	.0	1.4	6.5	14.4	13.6	3.7	3.7	6.8	2.0	60.9	39.1	353
18&21	5.1	.7	.7	8.1	17.8	11.4	3.0	1.7	2.7	1.7	52.9	47.1	297
TOT	84	5	12	76	165	148	37	20	40	23	610	508	1118
PCT	7.5	.4	1.1	6.8	14.8	13.2	3.3	1.8	3.6	2.1	54.6	45.4	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	5.2	1.1	2.3	6.0	20.7	64.7	348
06&09	4.2	3.1	1.0	5.9	22.0	63.6	286
12&15	4.3	1.7	2.5	8.1	22.9	60.5	484
18&21	4.3	1.3	3.1	8.1	21.1	62.1	393
TOT	68	26	35	109	329	944	1511
PCT	4.5	1.7	2.3	7.2	21.8	62.5	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 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	8.8	10.5	20.6	27.7	51.7	238
06&09	7.7	10.8	19.8	36.9	43.2	222
12&15	8.7	10.5	23.0	40.4	36.6	344
18&21	5.1	7.9	22.6	32.9	44.5	292
TOT	83	108	238	383	475	1096
PCT	7.6	9.9	21.7	34.9	43.3	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
65/69	.0	.0	.0	.1	.2	.1	.1	.0	5	.6
60/64	.0	.0	.0	.0	.1	.6	.6	.9	19	2.1
55/59	.0	.1	.2	.6	1.2	3.3	5.2	4.3	132	14.8
50/54	.0	.0	.3	.3	2.9	5.7	10.5	12.2	286	32.1
45/49	.0	.0	.2	1.3	4.9	8.9	8.9	6.7	276	30.9
40/44	.0	.0	.2	.7	3.4	4.6	2.6	2.4	123	13.8
35/39	.0	.0	.0	.3	1.9	2.0	.4	.8	49	5.5
30/34	.0	.0	.0	.0	.0	.1	.0	.1	2	.2
TOTAL	0	1	9	30	131	225	252	244	892	100.0
PCT	.0	.1	1.0	3.4	14.7	25.2	28.3	27.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.1	.4	.0	.0	.0	.0
.1	.0	.0	.4	.5	.7	.3	.0	.0	.1
.4	.4	.6	2.2	4.3	3.3	2.1	.9	.0	.6
1.6	1.0	3.1	3.1	5.8	5.4	6.0	5.0	.0	1.0
3.5	3.0	2.4	2.0	2.8	3.7	7.7	5.8	.0	.0
3.6	1.8	.2	.4	.6	1.3	2.6	3.1	.0	.1
1.7	.8	.1	.1	.1	.8	.7	1.2	.0	.0
.1	.1	.0	.0	.0	.0	.0	.1	.0	.0
11.1	7.2	6.3	8.2	14.3	15.6	19.4	16.1	.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	62	59	57	49	39	35	33	48.8	376
06&09	63	59	57	49	38	34	33	48.4	302
12&15	68	64	58	49	40	36	33	49.2	507
18&21	69	65	61	50	40	37	36	50.6	400
TOT	69	64	58	49	39	36	33	49.3	1585

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	4.9	14.3	21.3	30.3	29.1	81	244
06&09	.0	1.0	14.6	24.3	26.7	33.5	83	206
12&15	.0	5.1	11.8	28.7	27.8	26.6	81	237
18&21	.0	6.6	18.0	27.2	27.2	21.1	79	228
TOT	0	41	134	232	257	251	81	915

PERIOD: (PRIMARY) 1951-1970
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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	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	2	.0	.2
14/16	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	2	.0	.2
11/13	.0	.0	.0	.0	.2	.3	.0	.0	.3	.0	8	.0	.7
9/10	.0	.0	.0	.0	.4	.3	.5	.2	.0	.1	15	.2	1.2
7/8	.0	.0	.0	.0	.3	1.0	.5	.6	.0	.0	27	.4	2.1
6	.0	.0	.0	.1	.3	.5	.7	.2	.0	.0	20	.5	1.4
5	.0	.1	.0	.1	1.3	1.4	1.7	.3	.1	.0	55	.6	4.3
4	.0	.0	.1	.2	1.5	1.2	1.4	.0	.0	.0	49	.9	3.5
3	.0	.0	.1	1.3	1.5	2.6	1.0	.2	.0	.0	74	.6	6.1
2	.0	.0	.2	1.2	2.2	2.2	.9	.1	.0	.0	74	.5	6.1
1	.0	.0	.2	2.1	4.0	2.3	.5	.0	.0	.0	100	1.1	8.0
0	.0	.0	.3	2.8	3.9	1.7	.2	.0	.0	.0	98	.3	8.6
-1	.0	.1	.5	2.4	2.3	2.3	.0	.0	.0	.0	83	.5	7.1
-2	.1	.0	.9	2.6	2.5	.9	.2	.0	.0	.0	80	.4	6.9
-3	.0	.2	1.3	2.3	1.7	.6	.1	.0	.0	.0	68	.6	5.5
-4	.0	.2	.7	2.9	1.6	.3	.1	.0	.0	.0	64	.0	5.8
-5	.1	.1	.6	1.8	1.4	.3	.0	.0	.0	.0	47	.0	4.2
-6	.0	.5	1.3	2.0	.3	.2	.0	.0	.0	.0	49	.1	4.3
-7/-8	.3	1.9	2.4	2.3	.5	.3	.0	.0	.0	.0	84	.1	7.5
-9/-10	.2	1.1	1.8	.5	.2	.1	.0	.0	.0	.0	43	.0	3.9
-11/-13	.5	1.7	1.5	.3	.0	.1	.0	.0	.0	.0	46	.0	4.2
-14/-16	.5	1.0	.0	.0	.1	.0	.0	.0	.0	.0	18	.0	1.6
TOTAL	19	75	134	274	287	205	88	18	4	2	1106	74	1032
PCT	1.7	6.8	12.1	24.8	25.9	18.5	8.0	1.6	.4	.2	100.0	6.7	93.3

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	.2	.0	.0	.0	.0	.0	.2
1-2	.0	.5	.5	.0	.0	.0	1.1
3-4	.0	.8	1.5	.3	.0	.0	2.6
5-6	.0	.0	1.9	1.1	.9	.0	3.4
7	.0	.0	.0	.3	.3	.0	.6
8-9	.0	.0	.0	1.0	.9	.0	1.5
10-11	.0	.0	.3	.2	.3	.0	.8
12	.0	.0	.0	.7	.5	.0	1.1
13-16	.0	.0	.0	.5	.5	.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	.2	1.3	4.3	4.1	2.6	.0	12.5

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	.0	.7	.0	.0	.0	.7
3-4	.0	.4	.7	.0	.0	.0	1.1
5-6	.0	.0	.2	.4	.0	.0	.5
7	.0	.0	.1	.3	.0	.0	.4
8-9	.0	.0	.0	.8	.1	.0	.8
10-11	.0	.0	.0	.7	.0	.0	.7
12	.0	.0	.0	.8	.5	.0	1.2
13-16	.0	.0	.3	.4	.4	.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	.1	1.0	1.7	3.3	.9	.0	7.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.3	.0	.0	.0	.8
1-2	.0	.2	.3	.0	.0	.0	.5
3-4	.0	.0	.5	.0	.0	.0	.5
5-6	.0	.0	.8	.5	.0	.0	1.4
7	.0	.3	.2	.7	.0	.0	1.2
8-9	.0	.0	.3	.3	.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	1.1	2.5	1.5	.0	.0	5.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	1.0	.3	.0	.0	.0	1.3
3-4	.0	.9	.7	.6	.0	.0	2.2
5-6	.0	.4	.2	.4	.0	.0	1.0
7	.0	.0	.4	.5	.0	.0	.9
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	.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	.0	2.4	1.6	2.1	.3	.0	6.4

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TABLE 18 (CONT) 46.6N 58.5W

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	.6	.0	.0	.0	.6
1-2	.0	.8	.9	.0	.0	.0	1.8
3-4	.0	.3	4.3	.3	.0	.0	4.9
5-6	.0	.2	1.8	.3	.3	.0	2.7
7	.0	.3	.5	.8	.5	.0	2.0
8-9	.0	.2	.3	.0	.2	.0	.8
10-11	.0	.0	.2	.6	.0	.0	.8
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	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	1.9	8.7	2.7	.8	.0	14.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.0	.0	.0	.0	.9
1-2	.0	1.4	.5	.0	.0	.0	1.8
3-4	.0	1.6	4.3	.5	.0	.0	6.3
5-6	.0	.0	1.4	.9	.0	.0	2.3
7	.0	.0	.6	.4	.0	.0	1.0
8-9	.0	.1	.3	.3	.1	.0	.8
10-11	.0	.0	.4	.3	.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	3.7	7.4	2.4	.1	.0	13.8

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	3.4	3.1	.0	.0	.0	6.5
3-4	.0	1.5	2.7	.9	.0	.0	5.1
5-6	.0	.3	2.0	.0	.2	.0	2.5
7	.0	.0	1.4	.9	.0	.0	2.4
8-9	.0	.0	.2	.9	.3	.0	1.4
10-11	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.3	.3	.2	.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	.0	5.8	9.8	3.6	.8	.0	19.9

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	.0	2.1	2.5	.0	.0	.0	4.6	
3-4	.0	2.1	1.8	.8	.0	.0	4.7	
5-6	.0	.3	3.0	.4	.2	.0	3.9	
7	.0	.0	1.0	.0	.3	.0	1.3	
8-9	.0	.0	1.0	.1	.0	.0	1.1	
10-11	.0	.0	.0	.7	.6	.0	1.3	
12	.0	.0	.0	.1	.3	.0	.4	
13-16	.0	.0	.0	.3	.4	.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	.0	5.5	9.3	2.3	1.8	.0	18.9	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	3.0	3.3	.9	.0	.0	.0	7.3	
1-2	.0	9.4	8.8	.0	.0	.0	18.2	
3-4	.0	7.6	16.4	3.3	.0	.0	27.4	
5-6	.0	1.2	11.2	4.0	1.2	.0	17.6	
7	.0	.6	4.3	4.0	.9	.0	9.7	
8-9	.0	.3	2.1	4.0	1.2	.0	7.6	
10-11	.0	.0	.9	3.0	.9	.0	4.9	
12	.0	.0	.0	1.5	1.2	.0	2.7	
13-16	.0	.0	.6	2.1	1.5	.0	4.3	
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	3.0	22.5	45.3	21.9	7.3	.0	100.0	329

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	16.7	10.7	4.1	1.5	.6	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	291	4
6-7	.0	1.2	5.8	6.1	6.2	2.5	2.9	.7	1.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	186	7
8-9	.0	.7	1.2	1.3	1.5	1.9	2.2	2.6	2.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	95	9
10-11	.0	.1	.1	.4	.9	.3	.7	.4	.9	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	29	10
12-13	.0	.0	.4	.1	.0	.3	.1	.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	9
>13	.0	.0	.0	.1	.0	.0	.0	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	4	13
INDET	1.7	2.8	2.5	1.7	.1	.7	.1	.0	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	72	4
TOTAL	23	79	184	142	88	49	45	30	38	3	6	0	2	0	0	0	0	0	0	889	6
PCT	3.3	11.5	28.7	20.8	12.8	7.1	6.5	4.4	5.5	.4	.9	.0	.3	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1943-1970
(OVER-ALL) 1875-1970

AREA 0006 CABOT STRAIT
46.5N 58.2W

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	1.3	7.6	.0	9.6	.6	.0	21.5	2.1	.0	2.7	.0	.3		.0	73.3
NE	18.4	1.1	11.0	.0	6.7	.0	.0	32.4	2.4	.0	6.4	.0	.0		.0	58.8
E	26.6	.8	11.0	.0	5.3	.0	.0	37.3	2.7	.8	10.1	.0	.8		.0	48.9
SE	21.8	2.3	11.8	.0	.7	.0	.0	33.4	3.3	.0	10.9	.0	.0		.0	52.3
S	13.3	2.0	5.4	.0	.0	.0	.0	20.5	1.9	.0	13.2	.0	1.9		.0	62.9
SW	8.4	1.6	5.8	.0	1.2	.0	.0	15.7	2.5	.0	9.1	.0	3.1		.0	69.7
W	1.9	2.1	.5	.0	7.1	.3	.3	11.3	4.3	.0	2.1	.0	.9		.0	81.5
NW	2.3	1.5	1.1	.0	9.8	.0	.3	14.6	3.6	.0	1.5	.0	.8		.0	79.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	5.9	5.9	.0	.0	.0	.0	.0	11.8	.0	.0	.0	.0	5.9		.0	82.4
TOT PCT	9.2	1.7	5.1	.0	5.2	.1	.1	19.8	3.0	.1	6.2	.0	1.1		.0	69.9
TOT OBS:	1663															

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	7.6	1.5	5.9	.0	6.3	.0	.2	21.0	1.7	.0	5.4	.0	.2		.0	71.7
06&09	9.9	2.4	4.5	.0	4.5	.3	.0	19.4	4.5	.0	7.2	.0	2.1		.0	66.9
12&15	9.1	1.4	6.1	.0	5.1	.2	.2	19.6	1.4	.2	6.3	.0	1.0		.0	71.7
18&21	10.4	2.0	3.4	.0	4.5	.0	.0	19.0	4.8	.0	6.3	.0	1.4		.0	68.5
TOT PCT	9.2	1.8	5.0	.0	5.1	.1	.1	19.8	3.0	.1	6.2	.0	1.1		.0	69.9
TOT OBS:	1681															

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	2.5	4.3	2.1	.5	.1		9.6	17.3	10.2	13.3	8.0	10.5	9.2	7.7	9.1	11.5
NE	.2	1.4	2.5	1.1	.4	.0		5.7	17.4	6.9	6.9	7.2	4.8	5.8	6.3	3.2	4.2
E	.1	1.7	2.9	1.7	.8	.1		7.4	19.4	6.4	8.7	6.8	11.6	7.5	9.8	6.1	5.0
SE	.1	1.7	4.1	1.9	.8	.0		8.6	18.5	7.9	4.8	8.3	6.8	11.1	9.0	11.0	3.9
S	.2	2.6	6.3	3.9	.5	.1		13.6	18.0	14.1	15.7	15.5	8.7	9.3	14.2	15.5	16.7
SW	.3	3.2	6.6	3.6	.6	.0		14.4	17.1	14.5	15.5	13.0	19.4	13.4	12.4	13.5	17.6
W	.4	3.8	8.8	5.1	2.6	.2		20.8	19.7	21.9	21.4	20.3	18.8	21.9	19.4	19.4	22.6
NW	.3	3.5	7.8	5.3	1.5	.5		18.8	20.0	17.8	13.7	19.2	17.8	19.7	19.6	21.2	17.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2							1.2	.0	.3	.0	1.7	1.7	2.1	1.6	1.0	.6
TOT OBS	52	364	776	443	138	18	1791		18.4	320	126	240	121	338	186	301	159
TOT PCT	2.9	20.3	43.3	24.7	7.7	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	1.0	4.0	3.0	1.5	.1		9.6	17.3	11.1	8.9	8.6	9.9
NE	.8	2.4	1.4	1.0	.1		5.7	17.4	6.9	6.4	6.0	3.5
E	.9	2.2	2.6	1.4	.3		7.4	19.4	7.1	8.4	8.3	5.8
SE	.5	3.1	3.5	1.2	.2		8.6	18.5	7.0	7.8	10.4	8.6
S	.8	5.7	5.3	1.7	.2		13.6	18.0	14.6	13.2	11.1	15.9
SW	1.2	6.5	4.8	1.8	*		14.4	17.1	14.7	15.2	13.0	14.9
W	1.4	7.9	6.8	4.2	.5		20.8	19.7	21.7	19.8	21.0	20.5
NW	1.3	6.5	6.9	3.5	.5		18.8	20.0	16.6	18.7	19.7	20.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.2						1.2	.0	.2	1.7	1.9	.9
TOT OBS	162	687	615	292	35	1791		18.4	446	361	524	460
TOT PCT	9.0	38.4	34.3	16.3	2.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1943-1970
(OVER-ALL) 1875-1970

AREA 0006 CABOT STRAIT
46.5N 58.2W

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	3.1	22.4	39.5	27.4	6.7	.7	18.0	100.0	446
06&09	1.7	1.1	19.7	45.7	24.9	6.4	.6	18.1	100.0	361
12&15	1.9	1.7	22.1	42.7	23.1	7.1	1.3	18.1	100.0	524
18&21	.9	.9	16.7	45.9	23.9	10.4	1.3	19.5	100.0	460
TOT	21	31	364	776	443	138	18	18.4		1791
PCT	1.2	1.7	20.3	43.3	24.7	7.7	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	3.3	3.0		5.9
NE	.9	.4	1.1	3.0		6.1
E	.0	.2	1.3	5.6		7.5
SE	.3	.1	1.7	7.1		7.4
S	1.1	.7	2.3	10.1		7.0
SW	1.0	1.1	3.3	6.4		6.5
W	2.9	3.1	8.6	8.9		5.8
NW	2.0	1.9	8.4	6.9		6.0
VAR	.0	.0	.0	.0		.0
CALM	.6	.1	.7	.4		4.6
TOT OBS	98	78	303	508	987	6.4
TOT PCT	9.9	7.9	30.7	51.5	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	.7	.1	.0	.2	2.2	1.8	.7	.2	.1	.0	1.9	
NE	.2	*	.0	.6	1.8	.8	.2	.3	*	.0	1.4	
E	1.2	.1	.1	1.4	1.6	.9	.5	.1	.2	.1	.9	
SE	1.9	.1	.2	1.1	2.3	1.0	.4	.2	.4	.2	1.5	
S	2.5	.2	.1	.8	2.7	2.2	.7	.6	.6	.3	3.6	
SW	.7	.0	.3	1.0	2.3	1.8	.5	.2	.3	.4	4.4	
W	.8	.0	.4	2.1	4.2	4.6	1.9	.7	.6	.3	7.9	
NW	.3	.1	.7	1.3	4.4	3.4	1.5	1.2	.8	.1	9.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.1	.2	.3	.0	.0	.2	.0	.9	
TOT OBS	83	6	17	85	215	167	63	34	31	12	274	987
TOT PCT	8.4	.6	1.7	8.6	21.8	16.9	6.4	3.4	3.1	1.2	27.8	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	2.5	3.8	4.2	4.3	4.3	4.3	4.3	4.3
* OR >5000	4.3	7.0	7.6	7.7	7.7	7.7	7.8	7.8
* OR >3500	8.9	12.7	13.8	14.0	14.0	14.0	14.1	14.1
* OR >2000	19.8	28.7	30.6	30.9	31.0	31.0	31.1	31.1
* OR >1000	31.1	47.1	51.9	52.5	52.7	52.8	52.9	52.9
* OR >600	35.1	53.2	59.8	60.6	61.2	61.4	61.5	61.5
* OR >300	35.7	54.3	61.5	62.4	63.0	63.2	63.3	63.3
* OR >150	35.8	54.5	62.0	63.0	63.6	63.8	63.9	63.9
* OR > 0	36.1	55.2	63.9	67.0	69.1	70.3	72.2	72.5
TOTAL	358	548	634	665	685	697	716	719

TOTAL NUMBER OF OBS: 992 PCT FREQ NH <5/8: 27.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.2	2.6	7.0	5.6	5.2	6.9	13.2	9.9	35.4	7.4	1072

NOVEMBER

PERIOD: (PRIMARY) 1963-1970
(OVER-ALL) 1875-1970

AREA 0080 CABOT STRAIT
46.5N 58.2W

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	.1	.1	.1	*	.2	.1	.0	.2	.0	.1	.8	
<1/2	NO PCP	.1	.3	.2	.5	1.0	.5	.2	*	.0	.0	2.7	
	TOT %	.2	.4	.3	.5	1.2	.4	.2	.2	.0	.1	3.5	
	PCP	.4	.5	.4	.1	.2	.9	.1	.1	.0	.0	2.2	
1/2<1	NO PCP	.1	.1	.1	.1	.1	.9	.2	.0	.0	.0	.9	
	TOT %	.5	.5	.5	.3	.4	.6	.3	.1	.0	.0	3.1	
	PCP	.1	.1	.4	.4	.3	.3	*	.1	.0	.1	1.9	
1<2	NO PCP	.1	*	.3	.2	.2	.1	.0	.1	.0	.0	1.0	
	TOT %	.2	.2	.7	.6	.5	.4	*	.2	.0	.1	2.9	
	PCP	.3	.2	.7	1.3	.9	.9	.5	.4	.0	.0	4.4	
2<5	NO PCP	.2	.3	.4	.9	.7	.7	.4	.5	.0	.1	4.1	
	TOT %	.4	.5	1.1	2.2	1.6	1.0	.8	.9	.0	.1	8.6	
	PCP	1.1	.8	1.0	1.1	1.1	1..	.7	1.3	.0	.0	8.1	
5<10	NO PCP	3.0	1.0	1.3	1.9	4.0	4.7	6.2	5.0	.0	.2	27.6	
	TOT %	4.1	1.8	2.3	3.0	5.1	5.8	6.9	6.3	.0	.2	35.7	
	PCP	.2	.2	.1	*	.2	.2	1.1	.6	.0	.0	2.5	
10+	NO PCP	3.9	2.1	2.1	2.2	5.1	6.2	11.7	9.8	.0	.6	43.8	
	TOT %	4.1	2.3	2.3	2.2	5.3	6.9	12.8	10.4	.0	.6	46.3	
	TOT OBS												1666
	TOT PCT	9.9	5.6	7.1	8.7	14.1	14.8	21.1	18.2	.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
	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.2	
<1/2	4-10	.1	.2	.1	.1	.2	.1	.0	.0	.0		.8	
	11-21	.0	.1	*	.4	.8	.2	.2	*	.0		1.8	
	22+	.1	.1	.1	.0	.2	.1	.0	.2	.0		.8	
	TOT %	.2	.4	.3	.5	1.2	.6	.2	.2	.0	.1	3.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.1	.0	.1	.1	.0	.0	.0	.0	.0		.2	
	11-21	.1	.1	.1	.1	.1	.3	.2	.1	.0		1.2	
	22+	.3	.4	.3	.1	.2	.2	.1	.1	.0		1.6	
	TOT %	.5	.5	.4	.3	.3	.6	.3	.1	.0	.0	3.0	
	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1	
1<2	4-10	.1	.1	.1	.0	.1	.1	*	.0	.0		.4	
	11-21	.0	*	.2	.2	.2	.3	.0	.0	.0		1.0	
	22+	.1	.1	.4	.3	.2	.1	*	.2	.0		1.4	
	TOT %	.2	.1	.8	.6	.5	.5	.1	.2	.0	.1	3.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
2<5	4-10	*	.1	.1	.1	.1	.1	*	.2	.0		.8	
	11-21	.2	.2	.2	1.1	.6	.3	.2	.3	.0		3.1	
	22+	.1	.2	.8	1.0	.9	.5	.6	.4	.0		4.3	
	TOT %	.4	.4	1.1	2.1	1.5	1.0	.8	.9	.0	.1	8.3	
	0-3	.1	.1	*	.1	.1	*	.2	.1	.0	.2	1.0	
5<10	4-10	.7	.4	.4	.7	.8	1.2	1.0	.8	.0		6.0	
	11-21	2.0	.7	1.2	1.5	2.1	2.3	1.9	2.2	.0		13.8	
	22+	1.2	.6	.6	.6	2.0	2.3	3.6	3.0	.0		13.9	
	TOT %	4.0	1.8	2.3	2.9	5.0	5.8	6.7	6.1	.0	.2	34.7	
	0-3	.1	.1	.1	.0	*	.2	.2	.2	.0	.7	1.6	
10+	4-10	1.6	.6	.9	.8	1.5	1.7	2.8	2.5	.0		12.6	
	11-21	1.8	1.4	.9	.8	2.6	3.2	6.2	4.8	.0		21.8	
	22+	.8	.3	.5	.5	1.0	1.1	3.8	3.4	.0		11.5	
	TOT %	4.4	2.5	2.3	2.2	5.2	6.3	13.0	10.9	.0	.7	47.5	
	TOT OBS												1728
	TOT PCT	9.5	5.7	7.1	8.5	13.8	14.7	21.1	18.5	.0	1.2	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1943-1970
(OVER-ALL) 1879-1970

AREA 0006 CABOT STRAIT
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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	8.3	.5	1.5	10.3	19.1	18.6	5.9	2.0	1.0	2.5	69.6	30.4	204
06&09	6.9	.5	2.3	10.1	18.8	20.6	5.5	1.4	2.3	.0	68.3	31.7	218
12&15	8.5	1.1	1.8	5.7	24.9	14.9	5.0	4.6	3.2	2.1	71.9	28.1	281
18&21	9.3	.3	1.6	8.3	21.4	14.1	8.0	4.5	4.8	.3	72.5	27.5	313
TOT	85	6	18	85	217	169	63	34	31	12	720	296	1016
PCT	8.4	.6	1.8	8.4	21.4	16.6	6.2	3.3	3.1	1.2	70.9	29.1	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	2.8	2.5	2.1	7.9	43.9	40.9	433
06&09	3.7	1.7	1.4	7.6	35.1	50.4	353
12&15	4.1	4.1	3.2	8.3	32.3	47.9	307
18&21	4.2	3.1	4.6	9.1	28.9	50.1	453
TOT	65	52	51	144	609	825	1746
PCT	3.7	3.0	2.9	8.2	34.9	47.3	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	8.5	11.6	27.6	43.7	28.6	199
06&09	7.2	10.5	23.9	47.8	28.2	209
12&15	8.7	12.0	24.6	49.6	25.7	276
18&21	9.4	13.3	27.9	46.4	25.6	308
TOT	85	119	259	467	266	992
PCT	8.6	12.0	26.1	47.1	26.8	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
60/64	.0	.0	.0	.0	.0	.0	.2	.1	3	.3
55/59	.0	.0	.0	.0	.0	.5	.7	.8	20	2.1
50/54	.0	.0	.1	.0	.4	.6	3.4	8.1	119	12.6
45/49	.0	.0	.0	.1	1.4	5.0	8.0	11.1	241	25.6
40/44	.0	.0	.2	1.0	3.9	7.2	7.0	8.4	261	27.7
35/39	.0	.0	.1	1.3	5.2	5.9	4.8	5.4	214	22.7
30/34	.0	.0	.0	.3	1.4	1.5	1.9	2.4	71	7.5
25/29	.0	.0	.0	.0	.2	.0	.3	.8	13	1.4
TOTAL	0	0	4	25	118	196	248	351	942	100.0
PCT	.0	.0	.4	2.7	12.5	20.8	26.3	37.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.2	.1	.0	.0	.0	.0	.0
.0	.0	.1	1.1	.6	.1	.1	.1	.0	.0
.4	.1	.5	1.8	5.7	3.3	.5	.3	.0	.1
.9	.9	3.8	3.4	5.5	5.3	3.5	2.0	.0	.3
3.7	3.2	2.1	1.1	2.5	2.7	6.9	4.9	.0	.5
2.7	1.5	1.9	.7	.4	1.8	6.6	6.7	.0	.4
1.0	.2	.4	.2	.2	.5	2.2	2.9	.0	.0
.1	.1	.0	.0	.0	.0	.5	.7	.0	.0
8.7	6.1	8.8	8.5	15.0	13.6	20.3	17.6	.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	60	55	52	42	31	26	23	41.9	446
06&09	58	53	51	42	32	28	26	42.0	360
12&15	61	56	51	42	31	27	23	41.7	525
18&21	60	56	53	42	32	27	25	42.3	460
TOT	61	56	51	42	32	27	23	41.9	1791

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	2.4	14.1	15.3	28.6	39.5	84	248
06&09	.0	4.9	11.5	19.3	23.4	41.0	83	244
12&15	.0	1.7	9.9	24.5	27.0	36.9	84	233
18&21	.0	3.6	14.2	24.0	27.1	31.1	82	225
TOT	0	30	118	196	252	354	83	950

PERIOD: (PRIMARY) 1963-1970
(OVER-ALL) 1875-1970

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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	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.1	.3	.1	.2	.0	10	.1	.7
7/8	.0	.0	.0	.0	.0	.0	.4	.4	.4	.2	.0	20	.3	1.2
6	.0	.0	.0	.0	.0	.1	.1	.5	.3	.1	.0	16	.2	.9
5	.0	.0	.0	.0	.0	.1	.4	1.7	.4	.1	.0	39	.4	2.5
4	.0	.0	.0	.0	.3	.5	1.2	1.4	.5	.1	.0	55	.5	3.5
3	.0	.0	.0	.0	.1	.7	1.7	2.0	.4	.1	.0	70	.7	4.4
2	.0	.0	.0	.1	.5	1.2	2.2	1.3	.4	.0	.0	78	.7	5.0
1	.0	.0	.0	.1	.8	1.3	3.1	1.3	.1	.0	.0	93	.6	6.1
0	.0	.0	.0	.1	1.5	2.1	3.1	1.2	.1	.0	.0	113	.7	7.5
-1	.0	.0	.0	.1	1.4	2.0	1.7	.5	.1	.0	.0	80	.9	4.9
-2	.0	.0	.0	.1	1.3	2.4	2.2	.5	.0	.0	.0	91	.3	6.3
-3	.0	.0	.2	.4	1.7	2.7	2.0	.4	.0	.0	.0	103	.6	6.9
-4	.0	.0	.1	1.2	2.7	2.5	.8	.0	.0	.0	.0	101	.1	7.2
-5	.0	.0	.2	1.2	3.2	2.5	.9	.1	.0	.0	.0	113	.1	8.0
-6	.0	.0	.4	1.2	2.5	1.4	.2	.1	.0	.0	.0	79	.1	5.6
-7/-8	.0	.1	1.4	2.5	4.7	1.6	.4	.0	.0	.0	.0	147	.0	10.6
-9/-10	.0	.4	1.3	2.2	1.6	.6	.0	.1	.0	.0	.0	84	.0	6.1
-11/-13	.0	.8	1.5	1.6	.9	.1	.1	.0	.0	.0	.0	69	.1	4.9
-14/-16	.1	.2	.1	.4	.3	.0	.0	.0	.0	.0	.0	16	.0	1.2
-17/-19	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	5	.0	.4
TOTAL	2	21	72	159	324	303	286	164	38	14	1	1384	84	1300
PCT	.1	1.5	5.2	11.5	23.4	21.9	20.7	11.8	2.7	1.0	.1	100.0	6.1	93.9

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	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.7	1.3	.0	.0	.0	2.0
3-4	.0	.2	.7	.8	.0	.0	1.2
5-6	.0	.4	.5	.7	.0	.0	1.6
7	.0	.3	.2	.5	.0	.0	1.0
8-9	.0	.0	.0	.2	.6	.0	.8
10-11	.0	.0	.3	.0	.0	.0	.3
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	.3	.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	.0	1.6	2.5	2.3	.6	.3	7.3

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	.8	.0	.0	.0	.8
3-4	.0	.6	1.5	.0	.0	.0	2.0
5-6	.0	.0	.6	.1	.0	.0	.7
7	.0	.0	.4	.3	.3	.0	1.0
8-9	.0	.0	.3	.3	.0	.0	.6
10-11	.0	.0	.1	.0	.0	.0	.1
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	.0	.6	3.7	1.0	.3	.0	5.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.3	.0	.0	.0	.6
1-2	.0	.7	.3	.0	.0	.0	1.0
3-4	.0	.8	1.1	.0	.0	.0	1.9
5-6	.0	.0	.0	.2	.0	.0	.2
7	.0	.0	.4	.3	.3	.0	1.0
8-9	.0	.0	.2	.0	.6	.0	.8
10-11	.0	.0	.4	.3	.0	.0	.7
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	.5	.3	.8
23-25	.0	.0	.0	.0	.3	.3	.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
TOT PCT	.0	1.8	2.7	1.0	1.6	.6	7.6

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	.6	.3	.0	.0	.0	.9
3-4	.0	.8	1.6	.3	.0	.0	2.7
5-6	.0	.0	1.7	.4	.3	.0	2.4
7	.0	.0	.3	1.5	.0	.0	1.7
8-9	.0	.0	.1	.6	.1	.0	.8
10-11	.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.3	.1	.0	.0	.3
13-16	.0	.0	.0	.1	.6	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.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	.0	1.7	4.4	3.5	1.0	.0	10.4

PERIOD: (OVER-ALL) 1963-1970 NOVEMBER AREA 0004 CABOT STRAIT

TABLE 18 (CONT) 46.5N 58.2W

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	.6	.6	.0	.0	.0	1.3
1-2	.3	1.2	1.8	.0	.0	.0	3.0
3-4	.0	.2	2.1	1.1	.0	.0	3.5
5-6	.0	.0	.5	.5	.3	.0	1.2
7	.0	.0	.8	.8	.0	.0	1.5
8-9	.0	.0	.4	.7	.2	.0	1.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.3	.0	.6
13-16	.0	.0	.0	.4	.6	.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	1.9	6.1	3.7	1.3	.0	13.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	.0	.0	.0	.0	1.0
1-2	.0	.8	2.3	.0	.0	.0	3.1
3-4	.0	1.3	1.6	.3	.0	.0	3.2
5-6	.0	.1	1.7	.3	.0	.0	2.1
7	.0	.0	.3	.3	.0	.0	.6
8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.0	.0	.3	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
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	.1	3.0	6.1	1.1	.6	.0	10.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.5	.0	.0	.0	2.0
1-2	.0	1.7	1.0	.0	.0	.0	2.7
3-4	.0	1.2	3.0	1.4	.0	.0	5.6
5-6	.0	.2	4.6	1.2	.5	.0	6.5
7	.0	.0	1.3	1.0	.6	.0	2.8
8-9	.0	.0	.7	.7	.5	.0	1.9
10-11	.0	.0	.0	.5	.3	.0	.8
12	.0	.0	.0	.3	.8	.6	1.6
13-16	.0	.0	.0	.0	.8	.0	.8
17-19	.0	.0	.0	.0	.3	.2	.5
20-22	.0	.0	.0	.2	1.1	.0	1.3
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	.0	4.6	11.0	5.2	4.7	.8	26.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.3	.1	.0	.0	.0	.4	
1-2	.0	1.4	.9	.0	.0	.0	2.3	
3-4	.0	1.5	1.9	.6	.0	.0	3.9	
5-6	.0	.1	3.4	.5	.1	.0	4.1	
7	.0	.0	1.2	.8	.0	.0	2.0	
8-9	.0	.0	1.0	.6	.1	.0	1.7	
10-11	.0	.0	.3	.3	.3	.0	.9	
12	.0	.0	.0	.3	.1	.0	.3	
13-16	.0	.0	.0	.6	.3	.0	1.0	
17-19	.0	.0	.0	.0	.0	.1	.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	.8	.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	.0	3.3	8.8	3.7	.8	.9	17.5	98.9

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	4.4	1.4	.0	.0	.0	7.4	
1-2	.0	6.8	8.7	.0	.0	.0	15.6	
3-4	.3	6.6	12.8	4.4	.0	.0	24.0	
5-6	.0	.8	12.8	3.8	1.1	.0	18.6	
7	.0	.3	4.9	4.2	1.1	.0	11.5	
8-9	.0	.0	2.7	3.3	1.9	.0	7.9	
10-11	.0	.0	1.1	1.6	.8	.0	3.6	
12	.0	.0	.3	1.1	1.1	.5	3.0	
13-16	.0	.0	.0	1.6	2.2	.0	3.8	
17-19	.0	.0	.0	.0	.5	.3	.8	
20-22	.0	.0	.0	.3	1.6	.3	2.2	
23-25	.0	.0	.0	.0	.3	.3	.5	
26-32	.0	.0	.0	.0	.0	1.1	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	1.9	18.9	44.8	21.3	10.7	2.5	100.0	366

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	1.7	7.6	12.8	7.0	6.7	1.6	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	266	4
6-7	.0	1.0	4.2	5.7	6.5	4.2	3.2	1.3	1.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	196	7
8-9	.0	.1	.9	2.3	3.2	1.6	1.1	2.0	1.9	.3	.1	.1	1.1	.0	.0	.0	.0	.0	.0	103	10
10-11	.0	.6	.3	.6	.4	1.1	.3	.3	1.0	.0	.1	.1	.7	.0	.0	.0	.0	.0	.0	39	11
12-13	.0	.0	.4	.3	.0	.3	.1	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	9
>13	.0	.0	.0	.1	.0	.0	.1	.4	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	7	12
INDET	1.3	1.0	2.0	1.4	2.7	.7	.3	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	5
TOTAL	21	72	143	122	136	66	40	34	36	4	7	2	14	0	0	0	0	0	0	697	7
PCT	3.0	10.3	20.5	17.5	19.5	9.5	5.7	4.9	5.2	.6	1.0	.3	2.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1948-1970
(OVER-ALL) 1878-1970

AREA 0006 CABOT STRAIT
46.6N 58.3W

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	.8	.6	.0	11.0	.0	.0	17.8	4.8	.0	.6	.0	.8	1.4		74.5
NE	8.8	1.8	3.5	.0	18.9	.0	.0	31.1	2.6	1.8	3.9	.0	.4	.4		61.4
E	11.9	2.7	5.8	.0	9.9	.7	1.4	30.0	2.4	.0	7.5	.0	1.0	.0		59.0
SE	20.5	1.6	5.0	.0	9.0	.6	1.2	31.4	4.0	.0	5.6	.0	.0	.0		59.0
S	14.9	2.7	4.6	.0	10.3	.0	1.2	32.5	3.0	.0	10.6	1.2	.0	.0		52.6
SW	4.3	.8	1.8	.0	10.2	.0	.4	17.6	2.7	.0	3.5	.8	.0	.0		75.5
W	2.6	.5	.6	.4	19.7	.0	1.4	24.4	4.8	.4	1.2	.0	.4	.0		68.8
NW	3.1	.6	.3	.0	20.5	.5	1.5	25.5	3.5	.0	.5	.0	.0	.0		70.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	5.9	.0	.0	.0	5.9	.0	.0	11.8	.0	.0	5.9	.0	5.9	.0		76.5
TOT PCT	6.8	1.1	1.9	.1	15.0	.2	1.0	24.8	3.7	.2	3.1	.2	.4	.2		67.5
TOT OBS:	1001															

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	6.6	1.6	2.3	.4	16.3	.0	1.2	27.1	1.2	.0	3.5	.8	.4	.4		66.7
06&09	9.2	1.4	2.9	.0	15.0	1.0	1.0	28.0	5.3	.5	2.9	.0	.8	.0		63.3
12&15	5.1	.0	.3	.0	14.3	.0	1.4	20.4	3.1	.3	2.7	.0	.7	.0		72.8
18&21	7.2	1.8	2.4	.0	14.1	.0	.4	24.5	5.6	.0	3.2	.0	.0	.4		66.3
TOT PCT	6.8	1.1	1.9	.1	14.9	.2	1.0	24.7	3.7	.2	3.1	.2	.4	.2		67.7
TOT OBS:	1008															

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	3.6	9.9	3.4	1.0	.1		12.5	18.3	12.6	5.8	16.8	10.8	13.8	10.0	12.8	8.0
NE	*	1.5	2.7	.8	.5	.1		5.7	18.2	4.6	5.1	3.8	9.3	7.0	5.6	6.5	4.7
E	.2	2.4	2.7	1.1	1.0	*		7.4	18.0	7.5	5.8	8.4	5.4	6.8	11.8	7.9	4.0
SE	.1	1.8	9.0	1.4	1.2	.3		7.9	21.0	6.1	9.2	13.3	5.9	7.3	8.2	6.7	5.1
S	.1	1.4	3.5	2.8	.6	.1		8.5	19.4	9.4	5.8	6.3	7.8	7.2	5.3	12.2	11.6
SW	.3	2.1	5.4	3.8	.7	*		12.2	19.0	12.5	11.3	10.5	17.2	10.4	12.4	12.3	18.5
W	.2	5.0	9.3	6.6	2.7	*		23.8	19.9	26.4	28.8	20.3	22.1	25.2	23.0	20.8	22.1
NW	.3	3.1	8.0	6.4	2.7	.1		20.5	20.9	19.5	26.7	18.3	19.6	21.3	20.6	18.8	24.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0	1.4	1.4	2.4	2.0	.9	1.2	2.0	1.4
TOT OBS	34	224	411	283	111	9	1072		19.3	208	73	164	51	225	85	197	69
TOT PCT	3.2	20.9	38.3	26.4	10.4	.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	1.2	4.9	3.5	2.5	.3		12.5	18.3	10.9	15.3	12.7	11.6
NE	.6	2.1	2.1	.7	.2		5.7	18.2	4.7	5.1	6.6	6.0
E	1.2	3.0	1.7	1.1	.4		7.4	18.0	7.0	7.7	8.1	6.9
SE	1.0	2.6	2.1	1.8	.5		7.9	21.0	6.9	11.5	7.6	6.3
S	.6	3.2	3.1	1.4	.2		8.5	19.4	8.5	6.6	6.7	12.0
SW	.9	4.1	5.5	1.4	.3		12.2	19.0	12.2	12.1	11.0	13.9
W	2.8	6.6	9.0	4.7	.8		23.8	19.9	27.0	20.7	25.2	21.1
NW	1.3	6.1	8.2	4.1	.9		20.5	20.9	21.4	18.6	21.1	20.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	1.4	2.3	1.0	1.9
TOT OBS	119	349	377	189	38	1072		19.3	281	215	310	266
TOT PCT	11.1	32.6	35.2	17.6	3.5		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1948-1970
(OVER-ALL) 1878-1970

AREA 0006 CAROT STRAIT
46.6N 58.3W

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	1.4	1.8	25.6	35.9	24.9	9.3	1.1	18.5	100.0	281
06609	2.3	2.3	19.1	42.3	20.5	11.6	1.9	19.6	100.0	215
12615	1.0	1.0	22.6	39.0	26.5	9.7	.3	18.9	100.0	310
18621	1.9	1.5	15.4	36.8	32.7	11.3	.4	20.4	100.0	266
TOT	17	17	224	411	283	111	9	19.3		1072
PCT	1.6	1.6	20.9	38.3	26.4	10.4	.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	2.0	1.5	3.5	6.3		6.0
NE	.6	.1	.6	3.7		6.9
E	.1	.1	1.0	6.4		7.6
SE	.2	.2	.8	6.2		7.5
S	.4	.3	1.0	6.7		7.3
SW	1.7	.8	3.1	5.5		6.1
W	2.7	1.4	7.2	13.0		6.4
NW	2.0	1.2	8.6	9.4		6.4
VAR	.0	.0	.0	.0		.0
CALM	.4	.1	.4	.7		5.6
TOT OBS	70	41	183	404	698	6.6
TOT PCT	10.0	5.9	26.2	57.9	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	.5	.0	.0	1.9	3.2	2.4	.5	.3	.2	.0	4.3	
NE	.7	.0	.1	.8	.9	1.3	.2	.0	.1	.0	1.1	
E	1.3	.1	.4	.7	1.8	1.2	.1	.4	.1	.0	1.5	
SE	1.0	.1	.4	.4	2.3	1.4	.5	.2	.0	.0	1.1	
S	.9	.0	.5	.6	2.9	1.1	.4	.4	.0	.0	1.4	
SW	.5	.0	.5	.8	1.8	2.5	.4	.4	.4	.0	3.8	
W	.9	.0	.8	2.9	7.4	5.5	.9	.4	.4	.0	5.1	
NW	.4	.1	.1	2.3	6.4	4.8	1.5	.4	.6	.0	4.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.1	.1	.1	.1	.0	.0	.0	1.0	
TOT OBS	43	3	20	74	187	142	33	17	13	0	166	698
TOT PCT	6.2	.4	2.9	10.6	26.8	20.3	4.7	2.4	1.9	.0	23.8	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	1.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9
= OR >5000	3.4	4.2	4.3	4.3	4.3	4.3	4.3	4.3
= OR >3500	6.2	8.6	8.9	9.1	9.1	9.1	9.1	9.1
= OR >2000	19.1	28.7	29.3	29.5	29.5	29.5	29.7	29.7
= OR >1000	34.2	51.6	54.9	55.6	55.7	55.9	56.3	56.3
= OR >600	39.7	59.2	64.9	65.9	66.4	66.5	67.0	67.0
= OR >300	40.4	60.6	67.4	68.5	69.0	69.1	69.5	69.5
= OR >150	40.4	60.6	67.4	69.0	69.4	69.5	70.0	70.0
= OR > 0	40.5	61.2	69.4	72.1	74.0	74.7	76.0	76.1
TOTAL	282	426	483	502	515	520	529	530

TOTAL NUMBER OF OBS: 696

PCT FREQ NH <5/8: 23.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.7	3.6	6.7	4.4	3.2	4.1	10.6	11.9	45.1	5.6	747

DECEMBER

PERIOD: (PRIMARY) 1948-1970
(OVER-ALL) 1878-1970

AREA 0006 CABOT STRAIT
46.6N 58.3W

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	.2	.2	.3	.0	.1	.1	.2	.1	.0	.0	1.3	
<1/2	NO PCP	.1	*	.3	.3	.6	.1	.0	.1	.0	.0	1.5	
	TOT %	.3	.2	.6	.3	.7	.2	.2	.2	.0	.0	2.8	
	PCP	.1	.4	.6	.2	.1	.1	.2	.2	.0	.0	2.0	
1/2<1	NO PCP	.0	.1	.1	.1	.1	.0	.1	.1	.0	.0	.6	
	TOT %	.1	.5	.7	.3	.2	.1	.3	.3	.0	.0	2.6	
	PCP	.0	.2	.4	.5	.4	.2	.1	.3	.0	.0	2.2	
1<2	NO PCP	.2	.1	.2	.1	.2	.2	.1	*	.0	.0	1.2	
	TOT %	.2	.3	.6	.6	.7	.4	.2	.3	.0	.0	3.4	
	PCP	.8	.6	.4	1.0	1.0	.4	1.5	.4	.0	.1	6.3	
2<5	NO PCP	.3	.1	.2	.6	.3	.4	.7	.4	.0	.0	3.1	
	TOT %	1.1	.7	.6	1.6	1.3	.9	2.2	.8	.0	.1	9.4	
	PCP	.7	.3	.2	.7	1.0	1.2	2.7	3.3	.0	.0	10.1	
5<10	NO PCP	2.3	1.5	1.1	2.0	1.4	3.9	6.9	5.1	.0	.5	24.6	
	TOT %	3.0	1.8	1.2	2.7	2.4	5.1	9.6	8.3	.0	.5	34.7	
	PCP	.3	.1	.3	.0	.0	.2	1.3	.8	.0	.1	3.2	
10+	NO PCP	7.4	2.0	3.2	2.5	2.9	5.3	10.6	9.1	.0	1.0	44.0	
	TOT %	7.7	2.1	3.5	2.5	2.9	5.4	12.0	9.9	.0	1.1	47.2	
	TOT OBS												1003
	TOT PCT	12.5	5.7	7.3	8.0	8.2	12.2	24.5	19.9	.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
	0-3	.1	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
<1/2	4-10	.1	*	.1	*	.3	.1	.0	.0	.0		.7	
	11-21	.0	*	.3	.2	.3	.0	.1	.1	.0		1.0	
	22+	.2	.2	.1	*	.1	.1	.1	*	.0		.9	
	TOT %	.3	.2	.5	.3	.7	.2	.2	.2	.0	.0	2.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.1	.0	.0	*	.2	.0	.0		.3	
	11-21	.1	.4	*	.1	.1	.0	.1	*	.0		.8	
	22+	.1	.1	.7	.2	.1	*	*	.3	.0		1.5	
	TOT %	.1	.5	.8	.3	.2	.1	.3	.3	.0	.0	2.6	
	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
1<2	4-10	.0	.0	*	.1	.1	.0	.0	.1	.0		.3	
	11-21	.1	.2	.2	*	.4	.2	.1	.0	.0		1.2	
	22+	.1	.1	.4	.5	.2	.1	.1	.3	.0		1.7	
	TOT %	.2	.3	.6	.6	.7	.4	.2	.4	.0	.0	3.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
2<5	4-10	.1	.1	.2	.3	*	.3	.5	*	.0		1.7	
	11-21	.1	.1	.2	.4	.5	.3	.4	.2	.0		2.2	
	22+	.9	.4	.2	.8	.7	.2	1.2	.7	.0		5.1	
	TOT %	1.1	.7	.6	1.6	1.2	.8	2.1	1.0	.0	.1	9.1	
	0-3	.1	.0	.0	.1	.0	.0	.0	.1	.0	.5	.8	
5<10	4-10	1.0	.4	.5	.5	.1	.4	2.1	1.5	.0		6.6	
	11-21	1.0	1.0	.5	1.0	.8	2.1	2.6	2.7	.0		11.8	
	22+	.8	.3	.3	1.1	1.5	2.4	4.6	4.0	.0		14.9	
	TOT %	2.9	1.7	1.2	2.8	2.4	4.9	9.4	8.3	.0	.5	34.0	
	0-3	.3	*	.2	.0	.1	.2	.2	.1	.0	1.0	2.2	
10+	4-10	2.3	1.0	1.5	.9	.8	1.3	2.3	1.5	.0		11.5	
	11-21	2.6	1.0	1.5	1.4	1.3	2.5	6.0	4.8	.0		21.1	
	22+	2.5	.2	.5	.3	.8	1.6	3.5	4.0	.0		13.5	
	TOT %	7.8	2.2	3.7	2.5	3.0	5.6	11.9	10.5	.0	1.0	48.3	
	TOT OBS												1052
	TOT PCT	12.5	5.7	7.4	8.0	8.2	12.0	24.0	20.6	.0	1.6	100.0	

DECEMBER

PERIOD: (PRIMARY) 1948-1970
(OVER-ALL) 1878-1970

AREA 0006 CABOT STRAIT
46.6N 58.3W

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	6.3	.6	4.0	10.2	23.3	23.3	4.0	.6	.0	.0	72.2	27.8	176
06&09	7.4	.7	5.4	12.8	22.3	20.3	3.4	1.4	.0	.0	73.6	26.4	148
12&15	5.9	.5	.5	10.2	27.8	20.3	8.0	2.1	2.1	.0	77.5	22.5	187
18&21	5.2	.0	2.1	9.3	32.0	18.6	3.1	5.2	4.6	.0	79.9	20.1	194
TOT	43	3	20	74	188	145	33	17	13	0	536	169	705
PCT	6.1	.4	2.8	10.5	26.7	20.6	4.7	2.4	1.8	.0	76.0	24.0	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	2.9	2.9	3.6	7.9	36.2	47.0	279
06&09	3.3	2.4	3.3	11.4	28.9	50.7	211
12&15	2.6	2.3	2.3	6.9	36.5	49.3	304
18&21	2.3	2.6	4.2	10.9	33.6	46.4	265
TOT	28	27	35	96	362	511	1059
PCT	2.6	2.5	3.3	9.1	34.2	48.3	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	6.4	12.7	26.6	46.8	26.6	173
06&09	7.5	16.4	32.9	41.8	25.3	146
12&15	6.0	7.1	21.2	56.0	22.8	184
18&21	5.2	6.7	22.8	59.1	18.1	193
TOT	43	72	177	359	160	696
PCT	6.2	10.3	25.4	51.6	23.0	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
55/59	.0	.0	.0	.0	.0	.2	.0	.0	1	.2
50/54	.0	.0	.0	.0	.0	.2	.4	.2	4	.7
45/49	.0	.0	.0	.0	.5	1.3	1.5	2.9	34	6.2
40/44	.0	.0	.2	.0	1.6	4.0	4.5	8.0	101	18.4
35/39	.0	.0	.0	.7	2.5	6.2	7.5	11.6	157	28.5
30/34	.0	.0	.0	1.3	5.3	8.2	8.0	7.3	165	30.0
25/29	.0	.0	.0	.2	1.1	2.2	2.5	3.3	51	9.3
20/24	.0	.0	.2	.0	.4	.4	1.5	2.2	25	4.5
15/19	.0	.0	.0	.0	.0	.9	.2	.9	11	2.0
10/14	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
TOTAL	0	0	2	12	63	129	163	201	550	100.0
PCT	.0	.0	.4	2.2	11.5	23.5	26.0	36.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
.0	.0	.2	*	.5	.0	.0	.0	.0	.0
.0	.3	.5	1.6	1.4	1.0	1.0	.5	.0	.0
1.0	.1	1.8	2.7	3.2	4.0	2.7	2.1	.0	.7
3.3	1.9	2.5	3.4	2.1	3.1	7.7	4.0	.0	.5
6.3	1.6	1.6	.7	1.0	3.0	9.0	6.7	.0	.0
1.2	.2	.5	.2	.5	.7	2.7	3.1	.0	.2
.3	.0	.0	.0	.0	*	2.2	1.6	.0	.4
.0	.0	.0	.0	.0	.0	1.2	.8	.0	.0
.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
12.0	4.1	7.2	8.6	8.8	11.9	26.7	18.8	.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	51	50	46	35	21	16	15	34.5	283
06&09	56	50	45	34	23	18	13	34.5	212
12&15	57	48	45	34	21	16	14	34.0	317
18&21	56	48	45	35	23	16	15	34.9	265
TOT	57	50	45	35	22	16	13	34.5	1077

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	9.9	24.7	27.8	35.2	83	162
06&09	.0	3.5	9.6	21.9	31.6	33.3	83	114
12&15	.0	2.8	10.6	22.5	19.0	45.1	85	142
18&21	.0	1.5	16.4	23.9	26.1	32.1	82	134
TOT	0	14	64	129	143	202	83	552

PERIOD: (PRIMARY) 1948-1970
(OVER-ALL) 1878-1970

AREA 0006 CABOT STRAIT
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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	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	6	.0	.8
7/8	.0	.0	.0	.0	.0	.0	.0	.4	.7	.5	.0	12	.3	1.3
6	.0	.0	.0	.0	.0	.0	.0	.3	.8	.1	.0	9	.0	1.2
5	.0	.0	.0	.0	.0	.0	.4	.7	.4	.0	.0	11	.3	1.2
4	.0	.0	.0	.0	.0	.0	.5	1.6	.5	.0	.0	20	.4	2.2
3	.0	.0	.0	.0	.0	.1	1.7	.7	.7	.0	.0	24	.5	2.6
2	.0	.0	.0	.0	.0	.8	1.2	1.6	.5	.0	.0	31	.4	3.7
1	.0	.0	.0	.0	.0	.1	1.2	1.0	.3	.0	.0	20	.0	2.6
0	.0	.0	.0	.0	.1	.5	3.8	1.3	.5	.0	.1	49	.5	5.9
-1	.0	.0	.0	.0	.3	1.6	2.6	1.0	.1	.0	.0	43	.1	5.5
-2	.0	.0	.0	.0	.8	2.9	1.3	1.8	.0	.0	.1	53	.3	6.6
-3	.0	.0	.0	.0	.7	2.6	2.0	.4	.1	.0	.0	44	.0	5.7
-4	.0	.0	.0	.0	1.7	3.9	1.3	.1	.0	.0	.0	54	.1	6.9
-5	.0	.0	.0	.0	1.8	2.9	2.0	.1	.0	.0	.0	52	.0	6.8
-6	.0	.0	.0	.5	3.1	3.4	.7	.1	.0	.0	.0	60	.0	7.8
-7/-8	.0	.0	.0	1.6	5.9	2.5	.4	.3	.0	.0	.0	81	.0	10.6
-9/-10	.0	.0	.3	4.0	4.0	1.6	.3	.0	.0	.0	.0	78	.0	10.2
-11/-13	.0	.3	1.4	3.0	2.1	.9	.0	.0	.0	.0	.0	59	.0	7.7
-14/-16	.4	.3	1.0	1.3	.5	.5	.1	.0	.0	.0	.0	32	.1	4.0
-17/-19	.0	.8	.8	.3	.1	.0	.0	.0	.0	.0	.0	15	.0	2.0
-20/-22	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	1.0
-23/-25	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	.8
TOTAL	10	17	27	82	162	186	148	87	38	8	2	767	23	744
PCT	1.3	2.2	3.5	10.7	21.1	24.3	19.3	11.3	5.0	1.0	.3	100.0	3.0	97.0

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	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	2.7	.0	.0	.0	.0	2.7
3-4	.0	2.3	.3	.3	.0	.0	2.9
5-6	.0	.3	1.9	.4	.0	.0	2.6
7	.0	.0	1.7	2.3	.4	.0	4.4
8-9	.0	.0	.3	.0	.3	.0	.6
10-11	.0	.0	.0	.8	.0	.0	.8
12	.0	.0	.0	.8	.0	.0	.8
13-16	.0	.0	.0	.8	.6	.3	1.8
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	.0	6.4	4.2	5.6	1.7	.3	18.2

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	.3	.8	.0	.0	.0	1.2
3-4	.0	.5	.2	.0	.0	.0	.7
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.4	.2	.0	.0	.6
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.2	.1	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.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	.0	.8	1.8	.3	.3	.1	3.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	.6	.4	.0	.0	.0	1.1
3-4	.0	.4	1.4	.0	.0	.0	1.8
5-6	.0	.4	1.2	.0	.0	.0	1.6
7	.0	.0	.0	.0	.7	.0	.7
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	.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	2.2	2.9	.3	1.6	.0	7.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.5	.5	.0	.0	.0	1.1
3-4	.0	.4	1.1	.5	.0	.0	2.0
5-6	.0	.0	.4	.8	.8	.0	2.1
7	.0	.0	.4	.0	.1	.0	.5
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	.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	.0	1.1	2.4	1.8	1.4	.0	6.6

PERIOD: (OVER-ALL) 1963-1970 DECEMBER AREA 0006 CABOT STRAIT

TABLE 18 (CONT') 46.0N 58.3W

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	1.8	.0	.0	.0	1.8	.4	.1	.2	.0	.0	.0	.7
3-4	.0	.0	2.0	1.9	.0	.0	3.9	.0	.1	3.4	.5	.0	.0	4.0
5-6	.0	.0	.4	.7	.0	.0	1.2	.0	.1	2.1	.2	.0	.0	2.4
7	.0	.0	.0	.7	.0	.0	.7	.0	.4	1.3	2.0	.0	.0	3.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.1	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.4	.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	.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	.4	.4	.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	.0	.0	4.2	3.4	.0	.4	8.0	.4	.7	8.0	3.2	.6	.0	12.9

	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	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	2.1	1.7	.0	.0	.0	3.8	.0	1.6	.4	.0	.0	.0	2.0	
3-4	.0	1.2	2.4	.3	.0	.0	3.9	.0	.1	5.3	.6	.0	.0	6.0	
5-6	.0	.3	1.7	2.0	.0	.0	4.0	.0	.1	.5	1.3	.0	.0	1.9	
7	.0	.0	.6	1.7	.3	.0	2.3	.0	.0	.6	1.9	.0	.0	2.5	
8-9	.0	.0	1.6	.4	.7	.0	2.7	.0	.0	.4	1.3	.1	.0	1.8	
10-11	.0	.0	.7	.7	.3	.0	1.8	.0	.0	.4	.5	.9	.0	1.9	
12	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.5	.0	.4	.9	
13-16	.0	.0	.0	.0	1.6	.0	1.6	.0	.0	.0	.4	1.4	.0	1.8	
17-19	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.7	.0	.7	.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	8.7	5.9	3.7	.0	21.8	.0	2.0	7.7	6.3	2.5	.4	19.1	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	2.5	2.1	.0	.0	.0	.0	4.6	
1-2	.8	8.3	5.8	.0	.0	.0	15.0	
3-4	.0	5.0	15.8	4.2	.0	.0	25.0	
5-6	.0	1.3	8.3	5.4	.8	.0	15.8	
7	.4	.4	5.0	8.8	1.3	.0	15.8	
8-9	.0	.0	3.3	1.7	1.3	.0	6.3	
10-11	.0	.0	1.3	2.5	1.7	.0	5.4	
12	.0	.0	.0	2.5	.0	.4	2.9	
13-16	.0	.0	.0	1.7	4.2	.4	6.3	
17-19	.0	.0	.0	.0	1.3	.0	1.3	
20-22	.0	.0	.0	.0	1.3	.4	1.7	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.8	17.1	39.6	26.7	11.7	1.3	100.0	240

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	.6	5.1	9.8	7.9	4.3	1.9	.6	.6	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	150	5
6-7	.0	1.3	4.0	4.3	6.0	3.6	3.4	1.1	1.7	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	122	7
8-9	.0	.0	.6	1.1	3.2	4.7	2.8	3.2	3.8	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	94	10
10-11	.0	.0	.4	.4	.6	.6	.6	.9	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	10
12-13	.0	.0	.4	.0	.0	.0	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	9
>13	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	5	17
INDET	1.3	1.3	2.6	2.8	1.9	1.1	1.1	.6	1.5	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	69	7
TOTAL	9	36	84	77	75	57	42	30	43	10	6	1	0	0	0	0	0	0	0	470	7
PCT	1.9	7.7	17.9	16.4	16.0	12.1	8.9	6.4	9.1	2.1	1.3	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

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PERIOD: (PRIMARY) 1926-1971
(OVER-ALL) 1860-1971

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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	4.1	1.0	2.6	.1	7.9	.1	.1	15.1	1.9	*	5.8	.4	.5		.1	76.2
NE	9.0	1.2	4.2	*	7.4	.1	*	21.0	2.7	.2	10.8	.3	.6		.1	64.5
E	14.6	1.3	6.3	.4	6.8	.4	.4	28.0	2.5	.2	17.2	.2	1.2		*	50.8
SE	14.8	1.4	5.0	.3	5.9	.1	.1	25.6	2.7	.3	21.1	.8	2.0		.0	47.6
S	9.1	1.4	4.2	.0	4.8	.0	.3	18.6	1.9	.4	19.8	.6	1.8		.0	57.0
SW	4.7	1.4	1.4	.1	6.0	.2	.1	13.3	2.2	.2	14.1	.5	1.7		.2	67.9
W	1.6	1.2	.7	.1	10.1	*	.2	13.4	2.8	.1	6.7	.3	1.7		.1	74.9
NW	1.7	1.2	.7	*	9.1	.2	.3	12.6	2.3	.1	4.9	.3	.9		.2	78.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	4.5	1.6	2.9	.0	3.3	.0	.0	10.9	.4	.0	16.1	.4	3.5		.0	68.7
TOT PCT	6.1	1.3	2.5	.1	7.7	.1	.2	17.1	2.4	.2	12.2	.4	1.4		.1	66.2
TOT OBS: 16518																

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	6.0	1.0	2.8	.2	8.1	*	.2	17.4	1.8	.3	11.8	.5	1.2		.2	67.0
06&09	7.8	1.5	2.6	.2	8.0	.2	.2	19.3	3.4	.5	11.1	.6	.8		*	64.4
12&15	5.5	1.5	2.4	.1	7.4	.1	.2	16.3	1.9	.1	13.9	.4	1.5		*	66.0
18&21	5.5	1.0	2.3	*	7.4	.1	.1	15.9	2.8	*	11.6	.3	1.8		.1	67.3
TOT PCT	6.1	1.3	2.5	.1	7.7	.1	.2	17.1	2.4	.2	12.3	.4	1.4		.1	66.2
TOT OBS: 16936																

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	3.0	4.2	2.0	.6	*		10.2	15.6	10.9	11.3	10.2	9.1	10.1	9.3	10.3	9.7
NE	.4	2.3	2.6	1.0	.3	*		6.7	14.4	6.3	5.3	7.3	7.7	7.6	5.9	6.1	6.0
E	.4	2.8	3.5	1.6	.6	.1		9.0	16.7	8.2	9.2	8.6	8.2	8.9	13.3	8.5	6.8
SE	.5	3.2	3.3	1.4	.4	.1		8.9	15.9	8.4	9.2	8.7	9.0	9.2	8.7	9.7	8.8
S	.8	4.1	5.2	1.9	.4	*		12.4	15.0	13.0	13.1	12.3	12.7	11.7	9.9	14.0	12.4
SW	.7	5.0	6.3	2.3	.4	.1		14.8	15.2	14.8	15.0	15.4	17.8	16.0	13.3	13.4	14.2
W	.6	4.8	7.5	4.2	1.7	.3		19.0	17.4	19.0	19.4	18.4	17.7	17.8	20.8	18.8	22.1
NW	.5	4.2	6.7	3.9	1.2	.1		16.5	17.3	17.0	15.6	16.3	15.1	15.9	16.8	16.6	18.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0	2.2	2.0	2.9	2.8	2.9	2.1	2.7	1.7
TOT OBS							18043		15.9	3376	1085	2361	1044	3630	2027	3184	1336
TOT PCT	6.7	29.3	39.7	18.4	5.7	.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	1.5	4.3	3.1	1.2	.2		10.2	15.6	11.0	9.9	9.8	10.1
NE	1.3	2.9	1.7	.6	.1		6.7	14.4	6.2	7.3	7.0	6.1
E	1.5	3.8	2.4	1.1	.2		9.0	16.7	8.4	8.7	10.6	8.0
SE	1.6	4.1	2.2	.8	.2		8.9	15.9	8.6	8.9	9.1	9.4
S	2.3	5.9	3.1	1.0	.1		12.4	15.0	13.0	12.6	11.0	13.5
SW	2.5	7.0	4.1	.9	.2		14.8	15.2	14.9	16.0	14.9	13.6
W	2.5	7.2	5.7	2.8	.7		19.0	17.4	19.2	18.1	18.8	19.8
NW	1.9	6.2	5.5	2.5	.4		16.5	17.3	16.7	15.8	16.3	17.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	2.1	2.8	2.6	2.4
TOT OBS						18043		15.9	4461	3405	5857	4320
TOT PCT	17.7	41.4	27.8	11.0	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	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	2.1	4.4	31.0	38.4	18.1	5.4	.5	15.5	100.0	4461
06609	2.8	3.6	30.2	40.4	17.8	4.9	.6	15.5	100.0	3405
12615	2.6	5.2	28.9	38.8	18.3	5.2	1.0	15.9	100.0	5697
18621	2.4	3.3	27.4	40.0	19.5	6.8	.7	16.6	100.0	4520
TOT								15.9		18043
PCT	2.5	4.2	29.3	39.2	18.4	5.7	.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	2.4	1.1	2.7	4.3		5.3
NE	.9	.5	1.2	3.9		6.2
E	.7	.3	1.2	7.0		7.1
SE	.7	.5	1.4	6.1		6.9
S	2.0	1.0	2.3	7.0		6.2
SW	3.6	1.4	3.1	6.1		5.4
W	5.1	2.4	5.2	6.8		4.9
NW	4.4	2.1	5.0	5.2		4.9
VAR	.0	.0	.0	.0		.0
CALM	.8	.3	.5	1.0		4.7
TOT OBS					12020	5.7
TOT PCT	20.6	9.5	22.5	47.4	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	.8	.2	.3	.9	1.7	1.2	.3	.2	.3	.1	4.4	
NE	.8	.1	.1	.7	1.3	1.0	.2	.1	.2	.1	2.0	
E	2.2	.1	.4	1.1	1.5	1.0	.3	.5	.4	.1	1.8	
SE	2.0	.2	.3	.9	1.4	.9	.2	.2	.3	.2	2.1	
S	2.3	.2	.2	.7	1.7	1.1	.5	.4	.4	.4	4.4	
SW	1.7	*	.3	.8	1.8	1.3	.4	.4	.4	.2	6.8	
W	1.1	.1	.4	1.2	3.1	2.6	.7	.5	.5	.3	8.9	
NW	.7	.1	.3	1.0	2.6	2.3	.6	.5	.5	.2	7.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.0	*	.1	.3	.2	*	.1	.1	*	1.3	
TOT OBS												12020
TOT PCT	12.0	.8	2.3	7.5	15.6	11.5	3.2	2.7	3.1	1.6	39.6	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	2.8	4.2	4.6	4.6	4.7	4.7	4.7	4.7
* OR >5000	4.0	6.5	7.2	7.3	7.3	7.4	7.4	7.4
* OR >3500	5.9	9.3	10.3	10.5	10.5	10.5	10.6	10.6
* OR >2000	12.0	19.6	21.5	21.9	22.0	22.0	22.1	22.1
* OR >1000	19.1	32.1	36.1	37.1	37.4	37.5	37.6	37.7
* OR >600	21.8	37.0	42.7	44.2	44.7	45.0	45.2	45.2
* OR >300	22.1	38.0	44.3	46.1	46.8	47.2	47.4	47.5
* OR >150	22.2	38.2	44.6	46.5	47.4	48.0	48.3	48.4
* OR > 0	22.3	38.5	46.3	50.1	52.9	55.4	59.3	60.4

TOTAL NUMBER OF OBS: 12167 PCT FREQ NH <5/8: 39.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
14.1	7.4	7.6	5.5	4.4	4.5	7.6	8.3	29.5 11.0	12773

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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	.9	.9	.3	.3	.3	.2	.2	.2	.0	*	2.0	
<1/2	NO PCP	.2	.4	.7	1.2	1.7	1.4	.5	.2	.0	.3	6.7	
	TOT %	.6	.6	1.0	1.5	2.0	1.6	.7	.4	.0	.3	8.7	
	PCP	.2	.2	.2	.2	.2	.2	.2	.2	.0	*	1.4	
1/2<1	NO PCP	.1	.1	.4	.3	.4	.3	.2	.1	.0	.1	2.1	
	TOT %	.2	.3	.6	.5	.6	.4	.4	.3	.0	.1	3.4	
	PCP	.2	.2	.5	.4	.2	.2	.4	.2	.0	*	2.4	
1<2	NO PCP	.1	.1	.3	.3	.2	.2	.2	.1	.0	*	1.5	
	TOT %	.2	.3	.8	.6	.5	.4	.6	.4	.0	.1	3.9	
	PCP	.5	.4	.8	.6	.7	.4	.7	.5	.0	.1	4.7	
2<5	NO PCP	.3	.2	.5	.5	.8	.6	.7	.4	.0	.1	4.2	
	TOT %	.8	.6	1.3	1.2	1.4	1.0	1.4	.9	.0	.1	8.9	
	PCP	.4	.4	.6	.6	.6	.7	1.0	1.0	.0	*	5.4	
5<10	NO PCP	2.5	1.6	1.5	2.0	2.8	4.1	4.9	3.9	.0	.4	24.0	
	TOT %	3.0	2.0	2.3	2.6	3.4	4.8	5.9	4.9	.0	.5	29.3	
	PCP	.1	.1	.2	.1	.1	.1	.5	.4	.0	*	1.6	
10+	NO PCP	5.4	2.9	2.8	2.5	4.4	6.2	9.6	9.1	.0	1.3	44.3	
	TOT %	5.6	3.0	3.0	2.6	4.5	6.3	10.1	9.5	.0	1.4	45.8	
	TOT OBS												16533
	TOT PCT	10.3	6.7	9.1	9.0	12.4	14.4	19.1	16.3	.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
	0-3	.1	*	.1	.1	.2	.1	.1	*	.0	.3	1.0	
<1/2	4-10	.2	.3	.4	.6	.7	.7	.3	.2	.0		3.3	
	11-21	.1	.1	.4	.6	.8	.6	.2	.1	.0		2.9	
	22+	.2	.1	.1	.2	.3	.2	.1	.1	.0		1.3	
	TOT %	.5	.6	1.0	1.5	2.0	1.5	.7	.4	.0	.3	8.5	
	0-3	*	*	*	*	.1	*	*	*	.0	.1	.3	
1/2<1	4-10	.1	.1	.1	.1	.2	.1	.1	.1	.0		.9	
	11-21	.1	.1	.2	.2	.2	.2	.1	.1	.0		1.2	
	22+	.1	.1	.2	.1	.1	.1	.1	.1	.0		1.0	
	TOT %	.2	.3	.6	.4	.6	.5	.4	.3	.0	.1	3.4	
	0-3	*	*	*	*	*	*	.0	.0	.0	.1	.1	
1<2	4-10	.1	.1	.1	.2	.1	.1	.2	.1	.0		.9	
	11-21	.1	.1	.3	.2	.2	.2	.1	.1	.0		1.3	
	22+	.1	.1	.4	.3	.2	.1	.3	.2	.0		1.6	
	TOT %	.2	.3	.9	.7	.5	.4	.6	.4	.0	.1	3.9	
	0-3	*	*	*	*	*	*	.1	*	.0	.1	.4	
2<5	4-10	.1	.2	.2	.3	.4	.3	.3	.1	.0		1.9	
	11-21	.3	.2	.5	.4	.5	.5	.4	.3	.0		3.1	
	22+	.3	.2	.6	.4	.5	.2	.7	.5	.0		3.4	
	TOT %	.7	.6	1.3	1.2	1.4	1.0	1.4	.9	.0	.1	8.8	
	0-3	.1	.1	.1	.1	.1	.2	.1	.1	.0	.5	1.4	
5<10	4-10	.7	.5	.7	.8	.9	1.3	1.2	1.1	.0		7.4	
	11-21	1.3	.8	1.0	.9	1.5	2.1	2.0	1.8	.0		11.4	
	22+	.8	.5	.5	.6	.7	1.1	2.4	1.8	.0		8.5	
	TOT %	2.9	2.0	2.3	2.5	3.3	4.7	5.8	4.8	.0	.5	28.7	
	0-3	.2	.2	.2	.1	.3	.4	.3	.3	.0	1.4	3.3	
10+	4-10	1.9	1.2	1.2	1.1	1.7	2.3	2.7	2.6	.0		14.8	
	11-21	2.4	1.2	1.2	1.0	2.0	2.8	4.7	4.3	.0		19.7	
	22+	1.1	.4	.5	.3	.6	1.0	2.5	2.5	.0		9.0	
	TOT %	5.6	3.0	3.1	2.6	4.6	6.6	10.2	9.7	.0	1.4	46.7	
	TOT OBS												17210
	TOT PCT	10.3	6.7	9.1	8.9	12.3	14.7	19.1	16.5	.0	2.4	100.0	

ANNUAL

PERIOD: (PRIMARY) 1924-1971
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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	11.6	1.1	2.4	7.9	14.4	12.2	3.0	.7	1.6	1.9	56.8	43.2	2789
06&09	11.8	.5	2.1	8.0	17.0	12.3	3.2	.6	1.9	1.7	59.1	40.9	2357
12&15	12.8	.7	2.4	6.8	16.0	10.5	3.1	4.5	4.4	1.3	62.6	37.4	3791
18&21	10.9	1.0	2.2	7.4	15.1	11.0	3.4	3.3	3.4	1.6	59.4	40.6	3453
TOT													12390
PCT	11.9	.9	2.3	7.4	15.4	11.4	3.2	2.6	3.1	1.6	59.8	40.2	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	9.5	3.1	2.7	8.6	32.2	43.9	4305
06&09	8.5	3.2	3.5	7.8	26.4	50.7	3318
12&15	8.6	4.3	4.5	8.9	28.0	45.7	5538
18&21	8.1	2.9	4.4	9.2	27.6	47.8	4477
TOT							17638
PCT	8.7	3.4	3.9	8.7	28.7	46.6	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	11.9	17.0	30.6	29.1	40.3	2731
06&09	12.0	16.6	29.3	32.3	38.3	2295
12&15	13.0	17.4	31.1	34.0	34.9	3737
18&21	11.1	15.5	29.9	32.3	37.7	3404
TOT						12167
PCT	12.2	16.8	30.4	32.1	37.5	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		*
75/79	.0	*	*	*	*	*	*	.0		.1
70/74	.0	*	*	*	.1	.2	.2	.2		.7
65/69	.0	*	*	.1	.2	.5	.8	1.1		2.6
60/64	.0	*	*	.1	.3	1.2	2.7	3.3		7.7
55/59	.0	.1	.1	.3	.6	2.0	3.5	4.2		10.7
50/54	.0	*	.1	.2	.9	1.6	2.9	4.7		10.5
45/49	.0	.0	*	.2	.8	2.2	3.0	4.5		10.7
40/44	*	*	.1	.2	1.1	2.1	3.1	5.2		11.8
35/39	.0	*	*	.3	1.3	2.5	4.3	7.7		16.1
30/34	.0	*	*	.2	1.0	2.2	4.3	7.1		14.9
25/29	*	.0	*	.1	.7	1.6	2.5	2.7		7.7
20/24	.0	*	*	*	.4	.7	1.2	1.4		3.8
15/19	.0	*	*	.1	.2	.5	.8	.3		2.0
10/14	.0	.0	.0	*	.1	.1	.2	.1		.4
5/9	.0	.0	.0	*	*	.1	*	*		.1
0/4	.0	.0	.0	.0	.0	.0	.0	*		*
TOTAL									10383	100.0
PCT	*	.2	.5	2.0	7.8	17.5	29.6	42.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	*	*	.0	.0	.0	.0
75/79	.0	.0	.0	*	*	.1	*	*	.0	*
70/74	*	*	*	.1	.2	.2	*	.1	.0	.1
65/69	.2	.1	.1	.3	.7	.9	.3	.1	.0	*
60/64	.3	.3	.4	.8	1.6	2.1	1.1	.8	.0	.2
55/59	.8	.5	.8	1.2	2.0	1.9	1.8	1.5	.0	.3
50/54	.8	.5	.9	1.1	1.9	1.6	1.8	1.4	.0	.4
45/49	.7	.7	1.2	1.2	1.6	1.7	2.0	1.4	.0	.3
40/44	1.2	1.1	1.3	1.1	1.6	1.7	2.0	1.5	.0	.4
35/39	2.0	1.6	1.8	1.5	1.6	2.0	2.9	2.4	.0	.4
30/34	2.6	1.2	1.4	1.2	1.2	1.5	2.9	2.8	.0	.2
25/29	1.2	.5	.5	.4	.6	.7	2.1	1.7	.0	.1
20/24	.6	.4	.1	.1	.1	.3	1.3	.9	.0	.1
15/19	.1	.1	*	.0	*	.1	1.0	.6	.0	*
10/14	*	*	*	.0	*	*	.2	.2	.0	*
5/9	*	.0	.0	.0	.0	*	.1	*	.0	*
0/4	.0	.0	.0	.0	.0	.0	*	.0	.0	.0
PCT	10.6	6.9	8.5	8.9	13.1	14.8	19.4	15.4	.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	82	55	51	42	33	29	8	43.6	4547
06&09	76	55	50	42	33	26	3	43.6	3459
12&15	80	56	52	43	33	29	1	44.5	5742
18&21	82	59	53	44	34	30	5	44.1	4593
TOT	82	57	52	43	33	29	1	44.0	18341

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	7.0	16.1	30.1	45.0	87	2850
06&09	.0	2.2	6.3	15.4	29.0	47.0	87	2171
12&15	.1	2.5	7.3	18.3	28.2	43.7	86	2930
18&21	*	4.2	10.4	20.0	30.3	35.0	83	2684
TOT	2	303	790	1794	3091	4655	86	10635

PERIOD: (PRIMARY) 1924-1971
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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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	WD FOG
>30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	2	.0	*
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	1	.0	*
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.0	.0	*	.0	6	*	*
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	*	.0	17	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	*	*	*	*	.0	*	34	*	.2
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.1	.1	.1	.1	.1	*	*	*	.0	81	.1	.4
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.2	.2	.2	.1	.2	*	*	*	.0	186	.2	1.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.2	.3	.2	.3	.2	.1	.1	*	*	.0	278	.4	1.5
7/8	.0	.0	.0	.0	.0	.0	.0	.0	*	.7	.4	.4	.3	.5	.4	.4	.3	.1	*	.0	*	492	.7	2.9
6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.4	.3	.3	.4	.4	.3	.1	.1	*	.0	.0	421	.6	2.3
5	.0	.0	.0	.0	.0	.0	.0	.0	.4	.8	.5	.5	.5	.5	.5	.5	.2	.1	*	*	.0	658	.8	3.8
4	.0	.0	.0	.0	.0	.0	.0	*	.8	1.0	.8	.7	.6	.6	.7	.6	.2	.1	*	.0	.0	871	1.2	4.9
3	.0	.0	.0	.0	.0	.0	.0	.2	1.1	1.3	.7	.9	.8	.8	.9	.6	.3	*	.0	.0	.0	1079	1.5	6.2
2	.0	.0	.0	.0	.0	.0	.0	.5	1.6	1.4	1.1	.9	.8	.8	1.0	.6	.3	*	.0	.0	.0	1301	1.5	7.7
1	.0	.0	.0	.0	.0	.0	.0	.8	2.0	1.2	.6	1.0	.8	.9	1.1	.7	.2	*	.0	.0	.0	1288	1.6	7.8
0	.0	.0	.0	.0	.0	.0	*	1.3	1.7	1.1	.8	.8	.9	.9	1.0	.5	.1	.0	*	.0	.0	1181	1.1	8.0
-1	.0	.0	.0	.0	.0	.0	.1	1.3	1.2	.7	.4	.6	.5	.8	.6	.3	*	.0	.0	.0	.0	811	.7	5.9
-2	.0	.0	.0	.0	.0	.0	.4	1.2	.9	.4	.5	.5	.6	.5	.5	.3	.1	*	.0	.0	.0	698	.6	5.3
-3	.0	.0	.0	.0	.0	.0	.6	1.0	.5	.4	.4	.4	.4	.5	.4	.1	.0	*	.0	.0	.0	551	.3	4.4
-4	.0	.0	.0	.0	.0	*	.8	.9	.6	.4	.3	.4	.3	.4	.2	.1	.0	.0	.0	.0	.0	485	.1	4.1
-5	.0	.0	.0	.0	.0	.2	1.0	.8	.4	.5	.3	.3	.3	.2	.1	*	.0	.0	.0	.0	.0	459	.1	4.1
-6	.0	.0	.0	.0	.0	.2	.5	.6	.5	.3	.3	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	338	.1	3.0
-7/-8	.0	.0	.0	.0	.0	.7	1.1	.9	.5	.6	.4	.3	.2	.1	*	*	.0	.0	.0	.0	.0	509	.1	4.6
-9/-10	.0	.0	.0	.0	.2	.8	1.0	.5	.4	.2	.2	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	374	*	3.6
-11/-13	.0	.0	.0	.1	.7	.7	.5	.4	.3	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	318	*	3.1
-14/-16	.0	.0	.0	.3	.7	.2	.2	.1	.1	.1	*	*	*	.0	*	.0	.0	.0	.0	.0	.0	161	*	1.8
-17/-19	.0	.0	.2	.3	.2	.1	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	.0	.8
-20/-22	.0	*	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	.0	.2
-23/-25	.0	*	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	.0	.2
-26/-30	*	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.1
TOTAL																						12701		
PCT	*	.1	.3	.8	1.9	3.0	6.3	10.3	13.2	12.0	9.1	8.7	8.1	8.6	8.5	5.7	2.2	.7	.2	.1	*	100.0	11.9	88.1

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	.1	.8	.1	.0	.0	.0	1.1
1-2	.1	1.2	.7	.0	.0	.0	1.9
3-4	*	.9	1.4	.5	.0	.0	2.8
5-6	.0	.1	1.1	.5	.1	.0	1.8
7	.0	*	.5	.5	.2	.0	1.3
8-9	.0	.0	.2	.2	.1	.0	.6
10-11	.0	.0	.1	.1	*	.0	.3
12	.0	.0	*	.2	.1	.0	.4
13-16	.0	.0	.0	.2	.2	*	.4
17-19	.0	.0	.0	.0	.1	.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	*	*
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	4.1	2.3	.8	*	10.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.1	.0	.0	.0	.9
1-2	.1	.8	.7	.0	.0	.0	1.5
3-4	.1	.6	1.0	.1	.0	.0	1.7
5-6	.0	.1	.4	.2	*	.0	.7
7	.0	*	.4	.3	*	.0	.8
8-9	.0	.0	.2	.3	.1	.0	.5
10-11	.0	.0	*	.3	.0	.0	.3
12	.0	.0	*	.2	.1	.0	.3
13-16	.0	.0	*	.1	.1	*	.3
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	.2	2.1	2.7	1.4	.4	*	6.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	.2	.0	.0	.0	1.2
1-2	.1	.9	.7	.0	.0	.0	1.7
3-4	.0	.5	1.0	.3	.0	.0	1.8
5-6	.0	.1	.7	.2	.1	.0	1.1
7	.0	*	.2	.6	.2	.0	1.0
8-9	.0	.0	.2	.2	*	.0	.4
10-11	.0	.0	.1	.2	*	.0	.4
12	.0	*	*	.1	.1	.0	.3
13-16	.0	.0	.0	.3	.3	.0	.5
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	*	.2	*	.2
23-25	.0	.0	.0	.0	.1	.1	.1
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	2.5	3.2	1.8	1.1	.1	8.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.2	.0	.0	.0	1.0
1-2	.1	1.2	1.0	.0	.0	.0	2.3
3-4	*	.7	1.3	.4	.0	.0	2.5
5-6	.0	.1	.8	.5	.2	.0	1.6
7	.0	.0	.4	.3	*	.0	.7
8-9	.0	*	*	.2	*	.0	.2
10-11	.0	.0	*	.2	.1	.0	.3
12	.0	.0	*	.1	*	*	.2
13-16	.0	.0	.0	.2	.1	*	.3
17-19	.0	.0	.0	.0	*	.0	*
20-22	.0	.0	.0	*	*	*	*
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	3.7	1.9	.5	.1	9.2

PERIOD: (OVER-ALL) 1963-1971

ANNUAL

TABLE 18 (CONT)

AREA 0006 CABOT STRAIT
46.7N 58.4W

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	.3	.0	.0	.0	1.5
1-2	.2	1.7	1.6	.0	.0	.0	3.5
3-4	.0	1.1	2.8	.7	.0	.0	4.6
5-6	.0	.3	1.4	.3	.1	.0	2.0
7	.0	.1	.4	.4	*	.0	.9
8-9	.0	*	.3	.2	*	.0	.6
10-11	.0	.0	*	.1	*	.0	.2
12	.0	.0	*	*	*	.0	.1
13-16	.0	.0	.0	.1	.1	.0	.2
17-19	.0	*	.0	.0	*	.0	.1
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	.5	4.1	6.7	1.8	.3	*	13.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	.2	.0	.0	.0	1.4
1-2	.1	1.7	1.4	.0	.0	.0	3.2
3-4	.1	1.1	2.6	.5	.0	.0	4.3
5-6	.0	.3	1.4	.3	.0	.0	1.9
7	.0	.1	.8	.6	.0	.0	1.5
8-9	.0	.1	.3	.2	.1	.0	.6
10-11	.0	*	.1	.3	.1	.0	.6
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	*	.2	.1	*	.3
17-19	.0	.0	.0	.1	.1	.0	.2
20-22	.0	.0	.0	.0	*	*	.1
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	4.2	6.8	2.4	.4	*	14.1

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	.3	.0	.0	.0	1.4
1-2	.1	2.1	1.4	.0	.0	.0	3.6
3-4	*	1.2	2.8	.6	.0	.0	4.6
5-6	.0	.1	1.7	.7	.1	.0	2.7
7	.0	.0	.8	.8	.2	.0	1.7
8-9	.0	.1	.4	.6	.3	.0	1.3
10-11	.0	*	.2	.6	.2	.0	.9
12	.0	.0	.0	.3	.2	*	.5
13-16	.0	.0	*	.3	.5	*	1.0
17-19	.0	.0	.0	.1	.2	*	.3
20-22	.0	.0	.0	*	.2	.0	.2
23-25	.0	.0	.0	*	.1	.1	.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	.3	4.4	7.6	4.1	1.9	.2	18.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.1	.2	.0	.0	.0	1.4
1-2	.1	1.8	1.3	.0	.0	.0	3.2
3-4	*	.9	2.9	.7	.0	.0	4.5
5-6	.0	.1	1.7	.6	*	.0	2.4
7	.0	.1	.8	.8	.1	.0	1.8
8-9	.0	*	.3	.5	.1	.0	.9
10-11	.0	.0	.1	.3	.3	.0	.7
12	.0	.0	.0	.2	.1	*	.4
13-16	.0	.0	.0	.2	.3	.0	.5
17-19	.0	.0	.0	*	.1	*	.1
20-22	.0	.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	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	4.0	7.3	3.3	1.1	.2	16.1

HGT	TOTAL PCT
<1	1.4
1-2	3.2
3-4	4.3
5-6	1.9
7	1.5
8-9	.6
10-11	.6
12	.1
13-16	.3
17-19	.2
20-22	.1
23-25	*
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	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	3.9	7.0	1.5	.0	.0	.0	12.4	
1-2	1.0	11.2	8.7	.0	.0	.0	20.9	
3-4	.3	7.1	15.7	3.7	.0	.0	26.7	
5-6	.0	1.2	9.1	3.3	.6	.0	14.2	
7	*	.3	4.2	4.3	.7	.0	9.5	
8-9	.0	.2	1.8	2.3	.8	.0	5.1	
10-11	.0	*	.7	2.1	.8	.0	3.6	
12	.0	*	.1	1.2	.6	.1	2.1	
13-16	.0	.0	.1	1.6	1.7	.1	3.5	
17-19	.0	*	.0	.2	.6	*	.9	
20-22	.0	.0	.0	.1	.5	.2	.8	
23-25	.0	.0	.0	*	.1	.1	.3	
26-32	.0	.0	.0	.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	5.2	27.0	41.8	18.8	6.4	.7	100.0	3614

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	2.5	10.5	15.3	7.8	3.5	.9	.7	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2986	4
6-7	.1	1.2	5.1	6.3	5.3	3.0	2.0	.7	1.1	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	1765	6
8-9	*	.5	1.4	1.6	2.4	1.6	1.6	1.4	1.6	.4	.2	.1	.2	.0	.0	.0	.0	.0	.0	891	9
10-11	.0	.2	.5	.5	.6	.7	.4	.4	.6	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	285	9
12-13	.0	.0	.2	.1	.1	.2	.1	.1	.2	.1	*	*	*	.0	.0	.0	.0	.0	.0	85	9
>13	.0	.0	.0	.1	.1	*	.1	.1	.1	.1	.1	*	.1	.0	.0	.0	.0	.0	.0	49	13
INDET	3.3	2.3	3.0	1.5	1.3	.7	.5	.4	.5	.1	.2	*	*	.1	.0	.0	.0	.0	.0	961	4
TOTAL																				7022	5
PCT	5.9	14.8	25.5	17.8	13.2	7.1	5.4	3.3	4.2	1.2	.8	.3	.4	.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1971
(OVER-ALL) 1860-1971

AREA 0006 CABOT STRAIT
46.7N 58.4W

TABLE 20

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

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	4	*
71/72	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	3	*
69/70	.0	.0	.0	.0	.0	.0	.1	.8	.1	.0	.0	.0	11	.1
67/68	.0	.0	.0	.0	.0	.0	.4	3.1	.3	.0	.0	.0	42	.3
65/66	.0	.0	.0	.0	.0	.0	.8	6.2	1.4	.1	.0	.0	90	.6
63/64	.0	.0	.0	.0	.0	.0	1.7	19.8	4.0	.2	.0	.0	272	1.9
61/62	.0	.0	.0	.0	.1	.0	3.8	17.6	9.5	.3	.0	.0	346	2.5
59/60	.0	.0	.0	.0	.1	.2	7.0	19.7	16.5	1.5	.1	.0	512	3.6
57/58	.0	.0	.0	.0	*	.2	13.4	15.7	18.1	2.3	.1	.0	586	4.2
55/56	.0	.0	.0	.0	*	.8	15.9	10.1	17.2	10.3	.5	.2	672	4.7
53/54	.0	.0	.0	.0	.1	1.6	16.1	5.1	14.0	15.4	1.1	.1	666	4.7
51/52	.0	.0	.0	.0	.1	3.4	11.0	1.1	8.8	21.2	4.4	.2	653	4.6
49/50	.0	.0	.0	.0	.3	8.9	13.4	.1	5.4	18.1	9.4	.6	770	5.4
47/48	.0	.0	.0	.2	.4	11.4	9.9	.0	2.8	14.7	14.3	.8	774	5.5
45/46	.0	.2	.0	.2	1.3	18.9	4.0	.1	.9	9.6	22.5	3.5	899	6.3
43/44	.7	1.2	.0	.4	3.4	19.9	1.1	.2	.1	3.6	19.0	9.2	853	6.0
41/42	1.9	.8	.3	.8	11.1	19.6	.5	.2	.7	1.8	11.1	13.9	929	6.6
39/40	3.1	.9	.6	1.4	18.8	11.0	.1	.0	.2	.6	10.3	23.7	1021	7.2
37/38	12.9	4.1	1.4	6.3	28.0	3.7	.0	.0	.0	.1	5.6	28.7	1227	8.7
35/36	27.7	11.8	5.7	19.8	20.1	.4	.1	.0	.1	.1	.8	11.6	1104	7.8
33/34	30.4	21.8	19.3	31.7	12.3	.2	.1	.0	.0	.1	.9	5.6	1170	8.2
31/32	18.8	35.2	32.8	24.2	3.3	.1	.0	.0	.0	.0	.0	1.3	923	6.5
29/30	5.0	23.2	38.7	14.7	.6	.0	.0	.0	.0	.0	.0	.4	616	4.3
27/28	.6	1.2	1.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	20	.1
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	709	651	664	1056	2318	1671	1350	1005	1175	1241	1495	834	14163	100.0
MEAN	34.5	32.4	31.5	33.4	37.6	44.3	59.6	60.1	56.2	50.5	44.5	39.0	43.1	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1010	1012	1010	1013	1011	1015	1010	1011	1011	822
FEB	1008	1009	1010	1013	1006	1009	1007	1008	1008	898
MAR	1011	1011	1011	1016	1010	1010	1011	1009	1011	1175
APR	1013	1012	1014	1014	1013	1014	1014	1012	1013	1418
MAY	1013	1014	1014	1016	1014	1016	1013	1013	1014	2214
JUN	1013	1013	1013	1012	1014	1015	1014	1013	1014	1718
JUL	1015	1016	1015	1016	1015	1015	1014	1015	1015	1449
AUG	1013	1014	1012	1013	1014	1013	1014	1014	1014	1186
SEP	1017	1017	1015	1017	1016	1018	1015	1016	1016	1319
OCT	1015	1017	1014	1014	1015	1017	1015	1017	1015	1451
NOV	1015	1014	1015	1014	1016	1017	1015	1015	1015	1517
DEC	1013	1011	1011	1011	1011	1012	1012	1011	1012	953
ANN	1013	1013	1013	1014	1013	1014	1013	1013	1013	16120
OBS	3065	775	2383	722	3299	1682	3189	1009		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	970	976	986	1002	1012	1021	1031	1036	1043
FEB	971	976	985	998	1009	1018	1028	1033	1038
MAR	970	979	989	1001	1011	1019	1030	1035	1040
APR	978	982	995	1006	1015	1021	1029	1035	1041
MAY	976	993	998	1008	1014	1020	1027	1031	1036
JUN	987	995	1001	1009	1014	1019	1024	1027	1031
JUL	992	999	1004	1011	1015	1019	1024	1028	1031
AUG	993	998	1003	1010	1014	1018	1023	1027	1032
SEP	967	998	1003	1011	1017	1022	1028	1030	1038
OCT	975	989	997	1010	1016	1022	1028	1032	1035
NOV	970	983	994	1007	1016	1024	1033	1038	1043
DEC	968	981	990	1003	1013	1020	1028	1032	1040

JANUARY

PERIOD: (PRIMARY) 1965-1970
(OVER-ALL) 1882-1970

AREA 0007 ANTICOSTI ISLAND
49.4N 63.4W

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	.0	.0	15.1	.0	.0	19.2	.0	.0	5.5	.0	.0		.0	75.3
NE	2.0	.0	.0	.0	32.0	8.0	.0	42.0	.0	.0	4.0	.0	.0		.0	54.0
E	.0	.0	.0	.0	47.2	.0	.0	47.2	.0	.0	18.9	.0	.0		.0	34.0
SE	2.4	.0	.0	.0	39.0	.0	.0	39.0	.0	.0	.0	.0	.0		.0	61.0
S	9.7	.0	.0	.0	32.3	.0	.0	32.3	22.6	.0	.0	.0	.0		.0	45.2
SW	.0	.0	.0	.0	19.1	.0	.0	19.1	4.3	.0	8.5	.0	.0		.0	68.1
W	.0	.0	.0	.0	16.7	.0	.0	16.7	7.3	.0	.0	.0	.0		.0	76.0
NW	2.1	.0	.0	.0	19.6	.0	.0	21.7	2.1	.0	8.5	.0	.0		.0	67.7
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	2.1	.0	.0	.0	24.0	.7	.0	26.0	3.4	.0	6.2	.0	.0		.0	64.4
TOT OBS:	146															

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	.0	.0	.0	.0	22.2	.0	.0	22.2	5.6	.0	8.3	.0	.0		.0	63.9
06&09	.0	.0	.0	.0	32.0	.0	.0	32.0	4.0	.0	.0	.0	.0		.0	64.0
12&15	6.8	.0	.0	.0	20.5	2.3	.0	27.3	4.5	.0	6.8	.0	.0		.0	61.4
18&21	.0	.0	.0	.0	24.4	.0	.0	24.4	.0	.0	7.3	.0	.0		.0	68.3
TOT PCT	2.1	.0	.0	.0	24.0	.7	.0	26.0	3.4	.0	6.2	.0	.0		.0	64.4
TOT OBS:	146															

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	.0	.0	7.0	5.1	1.2	.0		13.2	22.6	24.2	12.5	19.2	.0	4.4	15.9	10.9	.0
NE	.0	2.6	2.3	2.6	.0	.7		8.3	21.1	.8	.0	8.7	.0	14.7	2.3	14.1	2.5
E	.0	.0	4.5	3.8	.5	.0		8.8	21.0	5.8	.0	7.7	.0	8.1	15.9	10.2	17.5
SE	.7	.7	2.8	1.8	.8	.0		6.8	20.7	4.2	12.5	15.4	.0	4.4	11.4	.8	10.0
S	.0	.7	1.2	2.8	.5	.0		5.1	22.0	5.8	12.5	3.8	.0	11.8	.0	.0	.0
SW	.0	2.8	2.0	2.8	.8	.0		8.4	19.0	4.2	.0	5.8	.0	8.8	13.6	15.6	5.0
W	.0	2.5	6.5	6.3	1.3	.0		16.6	21.1	20.8	12.5	17.3	.0	21.3	11.4	10.9	12.5
NW	1.3	3.3	10.9	11.8	3.5	1.3		32.1	22.9	34.2	50.0	18.3	.0	26.5	29.5	37.5	52.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0	.0	.0	3.8	.0	.0	.0	.0	.0
TOT OBS	4	19	56	56	13	3	151		21.6	90	8	26	0	34	11	32	10
TOT PCT	2.6	12.6	37.1	37.1	8.6	2.0		100.0		100.0	100.0	100.0	.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	.0	4.1	5.3	3.1	.7		13.2	22.6	21.7	19.2	7.2	8.3
NE	.0	4.1	1.3	2.2	.7		8.3	21.1	.7	8.7	11.7	11.3
E	.0	3.1	5.1	.5	.0		8.8	21.0	4.6	7.7	10.0	11.9
SE	.7	2.0	3.3	.2	.7		6.8	20.7	5.9	15.4	6.1	3.0
S	.7	.7	2.8	.5	.5		5.1	22.0	7.2	3.8	8.9	.0
SW	1.3	2.5	2.3	2.2	.2		8.4	19.0	3.3	5.8	10.0	13.1
W	.7	4.6	7.3	4.0	.0		16.6	21.1	19.1	17.3	18.9	11.3
NW	2.6	6.6	14.2	6.0	2.6		32.1	22.9	37.5	18.3	27.2	41.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.7						.7	.0	.0	3.8	.0	.0
TOT OBS	10	42	63	28	8	151		21.6	38	26	45	42
TOT PCT	6.6	27.8	41.7	18.5	5.3		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	.0	2.6	5.3	57.9	28.9	5.3	.0	19.6	100.0	38
06&09	3.8	3.8	7.7	38.5	30.8	11.5	3.8	22.0	100.0	26
12&15	.0	.0	15.6	31.1	46.7	2.2	4.4	22.1	100.0	45
18&21	.0	2.4	19.0	23.8	38.1	16.7	.0	22.4	100.0	42
TOT	1	3	19	56	56	13	3	21.6		151
PCT	.7	2.0	12.6	37.1	37.1	8.6	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	1.2	.9	3.4	3.0		5.8
NE	.3	.0	1.2	3.4		6.7
E	.9	.0	.0	10.7		7.3
SE	.0	1.5	1.2	3.4		6.5
S	1.2	.9	1.2	.0		3.3
SW	1.2	1.2	4.0	.6		4.9
W	3.0	2.1	4.9	6.7		5.5
NW	12.8	1.8	6.1	21.0		5.2
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	17	7	18	40	82	5.6
TOT PCT	20.7	8.5	22.0	48.8	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	1.2	.0	.0	.0	.0	2.1	.0	5.2	
NE	1.2	.0	2.4	.0	.3	.0	.0	.0	.3	.0	.6	
E	4.0	1.2	.0	.0	.9	1.2	.0	.0	1.2	.0	3.0	
SE	3.4	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.5	
S	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	2.1	
SW	.0	.0	.0	.0	.6	1.2	.0	.0	.0	.0	5.2	
W	.0	.0	.0	.0	6.7	.9	.0	.0	.0	.0	9.1	
NW	2.4	.0	.0	3.7	8.5	5.2	.0	.0	1.2	.0	20.7	
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	9	1	2	4	14	7	0	0	3	1	39	82
TOT PCT	11.0	1.2	2.4	4.9	17.1	8.5	.0	.0	6.1	1.2	47.6	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	3.7	7.4	7.4	7.4	7.4	7.4	7.4
* OR >5000	.0	3.7	7.4	7.4	7.4	7.4	7.4	7.4
* OR >3500	.0	3.7	7.4	7.4	7.4	7.4	7.4	7.4
* OR >2000	4.9	9.9	16.0	16.0	16.0	16.0	16.0	16.0
* OR >1000	7.4	19.8	32.1	33.3	33.3	33.3	33.3	33.3
* OR >600	9.9	23.5	37.0	38.3	38.3	38.3	38.3	38.3
* OR >300	12.3	25.9	39.5	40.7	40.7	40.7	40.7	40.7
* OR >150	12.3	25.9	39.5	40.7	42.0	42.0	42.0	42.0
* OR > 0	12.3	25.9	39.5	43.2	48.1	51.9	53.1	53.1
TOTAL	10	21	32	35	39	42	43	43

TOTAL NUMBER OF OBS: 81 PCT FREQ NH <5/8: 46.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
19.5	11.9	14.3	2.4	2.4	2.4	2.4	4.8	33.3	10.7	84

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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	.7	1.4	1.0	.3	.0	.0	.0	.0	.0	.0	3.4	
<1/2	NO PCP	.0	.2	1.2	.0	.0	.0	.0	.0	.0	.0	1.4	
	TOT %	.7	1.5	2.2	.3	.0	.0	.0	.0	.0	.0	4.8	
	PCP	.0	.0	1.2	1.5	.0	.7	.7	.7	.0	.0	4.8	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	
	TOT %	.0	.0	1.2	1.5	.0	.7	.7	1.4	.0	.0	5.5	
	PCP	1.2	.7	.0	.7	.5	.2	.0	2.2	.0	.0	5.5	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.2	.7	.0	.7	.5	.2	.0	2.2	.0	.0	5.5	
	PCP	.5	1.5	1.4	.2	.5	.7	1.4	2.7	.0	.0	8.9	
2<5	NO PCP	.7	.2	.5	.0	.0	.9	.5	2.7	.0	.0	5.5	
	TOT %	1.2	1.7	1.9	.2	.5	1.5	1.9	5.5	.0	.0	14.4	
	PCP	.0	.0	.0	.0	.7	.0	.7	.7	.0	.0	2.1	
5<10	NO PCP	1.7	1.9	2.4	1.5	3.1	2.4	7.9	3.8	.0	.0	24.7	
	TOT %	1.7	1.9	2.4	1.5	3.8	2.4	8.6	4.5	.0	.0	26.7	
	PCP	.0	.0	.7	.0	.0	.0	.0	.7	.0	.0	1.4	
10+	NO PCP	7.7	2.7	.7	2.7	.5	3.9	5.3	18.2	.0	.7	41.8	
	TOT %	7.7	2.7	1.4	2.7	.5	3.9	5.3	18.8	.0	.7	43.2	
	TOT OBS												146
	TOT PCT	12.3	8.6	9.1	7.0	5.3	8.0	16.4	32.4	.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
	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+	.7	1.5	2.2	.3	.0	.0	.0	.0	.0		4.8	
	TOT %	.7	1.5	2.2	.3	.0	.0	.0	.0	.0	.0	4.8	
	0-3	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.7	.0	.0	.0	1.4	.0		2.0	
	22+	.0	.0	1.2	.2	.0	.7	.7	.7	.0		3.4	
	TOT %	.0	.0	1.2	1.5	.0	.7	.7	2.0	.0	.0	6.1	
	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	.7	.7	.0	.7	.0	.0	.0	.7	.0		2.7	
	22+	.5	.0	.0	.0	.5	.2	.0	1.5	.0		2.7	
	TOT %	1.2	.7	.0	.7	.5	.2	.0	2.2	.0	.0	5.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.0	.7	.0	.0	.0	.0	.7	2.7	.0		3.4	
	11-21	1.2	.9	1.4	.0	.0	.0	.7	2.0	.0		6.1	
	22+	.0	.2	.5	.2	.5	.9	1.2	1.4	.0		4.8	
	TOT %	1.2	1.7	1.9	.2	.5	1.5	1.9	5.4	.0	.0	14.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	
5<10	4-10	.0	.7	.0	.7	.7	.7	.7	.0	.0		3.4	
	11-21	.5	.9	1.9	.9	1.2	1.5	3.2	.9	.0		10.9	
	22+	1.2	.3	.5	.0	1.9	.2	4.6	2.9	.0		11.6	
	TOT %	1.7	1.9	2.4	1.5	3.7	2.4	8.5	4.4	.0	.0	26.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.7	.0	.7	1.4	
10+	4-10	.0	1.4	.0	.0	.0	1.5	1.9	1.4	.0		6.1	
	11-21	4.1	.0	1.4	.7	.0	.2	2.4	6.3	.0		15.0	
	22+	3.6	1.4	.0	2.0	.5	1.5	1.0	10.4	.0		20.4	
	TOT %	7.7	2.7	1.4	2.7	.5	3.2	5.3	18.7	.0	.7	42.9	
	TOT OBS												147
	TOT PCT	12.4	8.5	9.0	7.0	5.3	8.0	16.3	32.8	.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	4.5	.0	.0	.0	22.7	4.5	.0	.0	9.1	4.5	45.5	54.5	22
06&09	.0	.0	.0	20.0	20.0	20.0	.0	.0	.0	.0	60.0	40.0	5
12&15	20.7	.0	3.4	6.9	20.7	10.3	.0	.0	6.9	.0	69.0	31.0	29
18&21	7.7	3.8	3.8	3.8	7.7	7.7	.0	.0	3.8	.0	38.5	61.5	26
TOT	9	1	2	4	14	7	0	0	5	1	43	39	82
PCT	11.0	1.2	2.4	4.9	17.1	8.5	.0	.0	6.1	1.2	52.4	47.6	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	8.1	5.4	18.9	24.3	43.2	37
06&09	4.0	.0	8.0	12.0	20.0	56.0	25
12&15	6.8	6.8	4.5	18.2	34.1	29.5	44
18&21	7.3	7.3	4.9	7.3	24.4	48.8	41
TOT	7	9	8	21	39	63	147
PCT	4.8	6.1	5.4	14.3	26.5	42.9	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	4.5	4.5	27.3	18.2	54.5	22
06&09	.0	.0	25.0	50.0	25.0	4
12&15	20.7	24.1	48.3	24.1	27.6	29
18&21	7.7	19.2	30.8	11.5	57.7	26
TOT	9	13	29	16	36	81
PCT	11.1	16.0	35.8	19.8	44.4	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
40/44	.0	.0	.0	.0	.0	.0	1.4	.0	1	1.4
35/39	.0	.0	.0	1.4	.0	.0	4.2	1.4	5	7.0
30/34	.0	.0	.0	.0	.0	1.4	7.0	7.0	11	15.5
25/29	.0	.0	.0	.0	2.8	2.8	4.2	8.5	13	18.3
20/24	.0	.0	.0	.0	2.8	1.4	.0	5.6	7	9.9
15/19	.0	.0	.0	1.4	4.2	2.8	8.5	4.2	15	21.1
10/14	.0	.0	.0	.0	1.4	5.6	8.5	1.4	12	16.9
5/9	.0	.0	.0	.0	2.8	1.4	2.8	1.4	6	8.5
0/4	.0	.0	.0	.0	.0	.0	1.4	.0	1	1.4
TOTAL	0	0	0	2	10	11	27	21	71	100.0
PCT	.0	.0	.0	2.8	14.1	15.5	38.0	29.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0
2.5	3.2	.0	.0	.0	.0	.0	1.4	.0	.0
4.2	1.8	4.6	.7	.0	.0	1.4	2.8	.0	.0
1.1	.4	2.5	2.8	1.4	.0	2.8	7.4	.0	.0
1.4	.0	1.4	1.4	.0	.0	.0	5.6	.0	.0
1.1	.4	4.9	.4	.0	4.2	4.2	6.0	.0	.0
.0	.0	.0	1.8	2.5	.7	6.7	5.3	.0	.0
.0	.0	.0	.0	.0	.0	3.5	4.9	.0	.0
.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0
10.2	5.6	13.4	7.0	3.9	4.9	18.7	36.3	.0	.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	42	41	36	19	7	5	5	20.0	37
06&09	37	36	36	21	12	-4	-4	22.7	26
12&15	39	38	36	21	6	2	2	21.7	43
18&21	39	38	34	21	8	3	3	22.5	40
TOT	42	39	36	21	7	2	-4	21.7	146

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	17.4	13.0	39.1	30.4	83	23
06&09	.0	.0	50.0	.0	50.0	.0	74	2
12&15	.0	.0	4.2	16.7	45.8	33.3	86	24
18&21	.0	9.1	18.2	18.2	27.3	27.3	80	22
TOT	0	2	10	11	27	21	83	71

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TABLE 17

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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	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	TOT	W FOG	WO FOG
6	.0	.0	.0	.0	.0	.0	.0	1.0	.0	1	.0	1.0
5	.0	.0	.0	.0	.0	.0	.0	2.0	.0	2	1.0	1.0
4	.0	.0	.0	.0	.0	.0	.0	5.1	1.0	6	1.0	5.1
2	.0	.0	.0	.0	.0	.0	3.1	2.0	.0	5	1.0	4.1
1	.0	.0	.0	.0	.0	.0	.0	1.0	.0	1	.0	1.0
0	.0	.0	.0	.0	.0	1.0	9.2	2.0	.0	12	1.0	11.2
-1	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1	.0	1.0
-2	.0	.0	.0	.0	.0	3.1	3.1	.0	.0	6	2.0	4.1
-3	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1	1.0	.0
-4	.0	.0	.0	.0	.0	7.1	1.0	.0	.0	8	.0	8.2
-5	.0	.0	.0	.0	.0	3.1	.0	.0	.0	3	.0	3.1
-6	.0	.0	.0	.0	1.0	1.0	.0	.0	.0	2	.0	2.0
-7/-8	.0	.0	.0	.0	4.1	1.0	.0	.0	.0	5	.0	5.1
-9/-10	.0	.0	.0	1.0	3.1	2.0	.0	.0	.0	6	.0	6.1
-11/-13	.0	.0	.0	11.2	4.1	.0	.0	.0	.0	15	.0	15.3
-14/-16	.0	.0	5.1	8.2	.0	.0	.0	.0	.0	13	.0	13.3
-17/-19	.0	.0	2.0	.0	.0	.0	.0	.0	.0	2	.0	2.0
-20/-22	.0	4.1	2.0	.0	.0	.0	.0	.0	.0	6	.0	6.1
-23/-25	1.0	2.0	.0	.0	.0	.0	.0	.0	.0	3	.0	3.1
TOTAL	1		9		12		18		1		7	91
		6		20		18		13		98		
PCT	1.0	6.1	9.2	20.4	12.2	18.4	18.4	13.3	1.0	100.0	7.1	92.9

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	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	6.1	2.7	.0	.0	8.8
5-6	.0	.0	2.7	5.4	.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	.0	.0	.0	.0	.0
12	.0	.0	.0	2.0	.0	.0	2.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	8.8	10.1	.0	.0	18.9

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	2.7	.7	3.4	.0	2.7	9.5

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	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	2.0	.0	.0	2.0
5-6	.0	.0	.0	2.7	.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	2.0	.0	2.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	4.7	2.0	.0	6.8

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	.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	.7	.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
TOT PCT	.0	.0	.0	.0	.7	.0	.7

PERIOD: (OVER-ALL) 1963-1970 JANUARY AREA 0007 ANTICOSTI ISLAND
TABLE 18 (CONT) 49.4N 63.4W

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	2.7	.0	.0	.0	2.7
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	.0	.0	2.7	.0	.0	.0	2.7

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	.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

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	2.7	.0	.0	.0	2.7
1-2	.0	2.7	2.7	.0	.0	.0	5.4
3-4	.0	.0	.0	2.7	.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	2.0	.0	.0	2.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	5.4	4.7	.0	.0	12.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	2.7	.0	.0	.0	.0	2.7	
1-2	2.7	.0	2.7	.0	.0	.0	5.4	
3-4	.0	2.7	4.1	2.7	.0	.0	9.5	
5-6	.0	.0	10.8	8.1	.0	.0	18.9	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	5.4	5.4	.0	10.8	
10-11	.0	.0	.0	.7	.0	.0	.7	
12	.0	.0	.0	.7	.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	
TOT PCT	2.7	5.4	17.6	17.6	5.4	.0	48.6	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	.0	2.7	2.7	.0	.0	.0	5.4	
1-2	2.7	2.7	8.1	.0	.0	.0	13.5	
3-4	.0	5.4	10.8	10.8	.0	.0	27.0	
5-6	.0	.0	13.5	16.2	.0	.0	29.7	
7	.0	.0	.0	2.7	.0	.0	2.7	
8-9	.0	.0	.0	5.4	5.4	.0	10.8	
10-11	.0	.0	.0	2.7	.0	.0	2.7	
12	.0	.0	.0	2.7	2.7	.0	5.4	
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	2.7	2.7	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								37
TOT PCT	2.7	10.8	35.1	40.5	8.1	2.7	100.0	

PERIOD: (OVER-ALL) 1964-1970 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	7.9	28.9	21.1	5.3	5.3	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	4
6-7	.0	.0	.0	2.6	2.6	7.9	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
8-9	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	2	14
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	.0	2.6	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
TOTAL	1	4	11	9	4	5	1	2	0	0	1	0	0	0	0	0	0	0	0	38	9
PCT	2.6	10.5	28.9	23.7	10.5	13.2	2.6	5.3	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1964-1971
(OVER-ALL) 1898-1971

AREA 0007 ANTICOSTI ISLAND
49.6N 62.9W

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 NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	BLWG BLWG	SPRAY DUST SNOW	NO SIG WEA
N	.0	.0	9.3	.0	22.3	.0	.0	95.6	.0	.0	2.5	.0	.0		2.9	69.6
NE	9.1	.0	.0	.0	43.0	.0	.0	43.0	.0	.0	6.3	.0	.0		.0	50.0
E	9.1	.0	.0	.0	28.4	4.5	.0	42.0	.0	.0	17.0	.0	.0		.0	40.9
SE	14.0	.0	.0	.0	14.0	.0	.0	27.9	4.7	.0	.0	.0	.0		.0	67.4
S	4.9	.0	.0	.0	14.8	.0	.0	19.8	.0	.0	.0	.0	4.9		.0	79.3
SW	.0	.0	.0	.0	16.7	.0	.0	16.7	4.8	.0	.0	.0	.0		.0	78.6
W	.0	.0	.0	.0	28.1	.0	.0	28.1	1.9	.0	2.9	.0	.0		.0	69.1
NW	.0	.0	.0	.0	16.5	.0	.0	16.5	4.4	.0	1.6	2.2	2.7		.5	72.5
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	3.0	.0	.4	.0	22.2	.4	.0	95.6	2.1	.0	3.4	.4	.9		.4	67.1
TOT OBS:	234															

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 NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	BLWG BLWG	SPRAY DUST SNOW	NO SIG WEA
00609	3.1	.0	.0	.0	21.9	.0	.0	95.0	3.1	.0	4.7	1.6	.0		.0	65.6
06609	.0	.0	.0	.0	10.0	.0	.0	10.0	10.0	.0	.0	.0	.0		.0	80.0
12615	.0	.0	1.2	.0	28.5	1.2	.0	28.9	.0	.0	1.2	.0	2.6		.0	67.5
18621	6.3	.0	.0	.0	21.3	.0	.0	26.3	2.9	.0	5.0	.0	.0		1.3	65.0
TOT PCT	3.0	.0	.4	.0	22.8	.4	.0	95.2	2.1	.0	3.4	.4	.8		.4	66.7
TOT OBS:	237															

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	4.5	9.7	1.8	.9	.3		13.8	15.9	11.5	17.1	20.0	.0	26.1	15.0	6.5	4.8
NE	.0	2.1	2.9	2.5	1.1	.4		8.8	22.1	9.7	6.6	.0	.0	13.6	14.3	6.0	8.1
E	.0	1.6	3.0	2.8	1.8	.4		9.6	24.5	8.3	9.2	10.0	.0	9.8	12.1	11.3	14.5
SE	.4	.8	3.4	2.6	.8	.9		9.0	23.5	6.3	5.3	.0	.0	4.3	14.3	12.3	13.7
S	.0	4.2	3.4	.4	.4	.0		8.4	13.1	18.8	9.3	.0	30.0	10.9	2.9	3.5	3.2
SW	.1	2.5	4.9	.6	1.3	.0		8.8	17.9	1.6	6.6	10.0	30.0	17.9	12.1	8.0	3.2
W	.7	6.7	7.1	5.7	3.0	.7		22.0	20.8	26.6	11.8	40.0	.0	12.0	20.0	26.0	26.6
NW	.4	3.9	4.7	6.9	3.1	.6		19.2	23.0	21.4	30.2	20.0	.0	11.4	6.4	22.0	25.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0	.0	.0	.0	.0	.0	2.9	2.6	.0
TOT OBS	7	58	82	55	30	8	240		20.2	48	19	10	1	46	35	90	31
TOT PCT	2.9	24.2	34.2	22.9	12.5	3.3		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	2.6	6.3	2.6	1.9	.3		13.4	15.9	13.1	18.2	21.3	5.9
NE	.5	2.5	3.0	2.2	.4		8.6	22.1	8.0	.0	13.9	6.8
E	.8	1.9	2.9	3.1	.8		9.6	24.5	8.8	9.1	7.4	12.7
SE	.8	2.3	3.2	1.8	.8		9.0	23.5	8.0	.0	8.8	13.0
S	1.1	5.0	1.9	.4	.0		8.4	13.1	14.9	4.5	7.4	4.6
SW	1.0	2.8	3.1	1.8	.0		8.8	17.9	3.0	13.6	15.4	6.2
W	1.9	8.3	6.7	4.1	1.9		22.8	20.8	22.4	30.4	15.4	26.2
NW	1.6	4.3	6.6	5.2	1.6		19.2	23.0	28.1	18.2	9.3	23.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.8						.8	.0	.0	.0	1.2	1.2
TOT OBS	28	80	72	49	13	240		20.2	67	11	81	81
TOT PCT	10.8	33.3	30.0	20.4	5.4		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	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	.0	1.5	26.9	32.8	28.4	7.5	3.0	19.5	100.0	67
06609	.0	.0	27.3	36.4	.0	36.4	.0	21.3	100.0	11
12615	1.2	2.5	27.2	37.0	18.5	8.6	4.9	18.8	100.0	81
18621	1.2	2.5	18.5	32.1	25.9	17.3	2.5	22.0	100.0	81
TOT	2	5	58	82	55	30	8	20.2		240
PCT	.8	2.1	24.2	34.2	22.9	12.5	3.3		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	5.9	1.3	1.3	5.5		4.5
NE	1.1	.5	1.2	6.7		6.8
E	.5	.5	1.3	8.3		7.2
SE	.5	1.0	1.0	6.7		7.0
S	1.8	1.0	1.8	2.3		4.9
SW	1.8	1.4	2.4	1.3		4.5
W	5.3	2.9	7.8	8.5		9.1
NW	5.3	3.0	4.8	6.4		4.8
VAR	.0	.0	.0	.0		.0
CALM	.5	.0	.5	.0		3.0
TOT OBS	47	24	46	91	208	5.4
TOT PCT	22.6	11.5	22.1	43.8	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 WGT	TOTAL OBS
N	.7	.8	.8	.7	1.2	.0	.0	.4	.0	.0	9.4	
NE	2.3	.1	.7	.6	1.4	.7	.5	.6	.1	.0	2.4	
E	3.1	.0	.7	1.3	.8	.7	.0	.0	1.1	.0	2.8	
SE	1.4	.0	.1	.5	1.6	1.0	.5	.0	.2	.0	3.8	
S	.5	.0	.5	.5	.0	.5	.5	.0	.8	.4	3.2	
SW	.0	.0	.1	.1	.5	1.0	.0	.0	.1	.6	4.6	
W	.8	.5	.8	1.2	4.9	3.0	.0	.0	.0	.0	11.2	
NW	1.2	.0	.0	.8	3.0	2.3	.5	.0	.0	.5	11.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	
TOT OBS	21	3	8	12	28	19	5	2	5	3	102	208
TOT PCT	10.1	1.4	3.8	5.8	13.5	9.1	2.4	1.0	2.4	1.4	49.0	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	1.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3
• OR >5000	1.9	5.2	5.2	5.2	5.2	5.2	5.2	5.2
• OR >3500	3.3	7.6	7.6	7.6	7.6	7.6	7.6	7.6
• OR >2000	5.2	15.2	16.7	16.7	16.7	16.7	16.7	16.7
• OR >1000	5.7	21.9	27.1	28.6	30.5	30.5	30.5	30.5
• OR >600	6.2	22.9	30.0	32.9	35.7	36.2	36.2	36.2
• OR >300	6.2	23.3	31.4	35.2	39.5	40.0	40.0	40.0
• OR >150	6.2	23.3	31.4	35.2	39.5	41.4	41.4	41.4
• OR > 0	6.2	23.3	31.9	38.1	45.2	48.6	51.4	51.4
TOTAL	13	49	67	80	95	102	108	108

TOTAL NUMBER OF OBS: 210 PCT FREQ NH <5/8: 48.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.0	13.0	10.2	6.5	3.7	4.7	5.1	7.9	25.6	9.3	215

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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	.7	.6	2.0	.0	.4	.0	1.3	.0	.0	.0	5.1	
<1/2	NO PCP	.3	.0	.4	.0	.0	.0	.0	.1	.0	.0	.9	
	TOT %	1.1	.6	2.4	.0	.4	.0	1.3	.1	.0	.0	6.0	
	PCP	1.4	1.9	.7	.9	.4	.9	1.1	.3	.0	.0	6.8	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.4	1.9	.7	.9	.4	.9	1.1	.3	.0	.0	6.8	
	PCP	.3	1.1	1.2	.4	.4	.9	1.1	1.8	.0	.0	6.8	
1<2	NO PCP	.0	.0	.0	.0	.0	.4	.0	.9	.0	.0	1.3	
	TOT %	.3	1.1	1.2	.4	.4	1.0	1.1	2.7	.0	.0	8.1	
	PCP	.9	.4	.0	1.3	.4	.0	1.2	.5	.0	.0	4.7	
2<5	NO PCP	1.0	.6	1.8	.5	.0	.0	.6	1.0	.0	.0	5.5	
	TOT %	1.8	1.1	1.8	1.8	.4	.0	1.8	1.5	.0	.0	10.2	
	PCP	.0	.0	.0	.0	.0	.0	1.6	.5	.0	.0	2.1	
5<10	NO PCP	3.5	2.6	2.3	3.4	3.4	5.1	7.7	7.8	.0	.0	35.7	
	TOT %	3.5	2.6	2.3	3.4	3.4	5.1	9.3	8.3	.0	.0	37.9	
	PCP	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
10+	NO PCP	4.8	1.6	.9	2.7	3.5	1.9	8.0	6.5	.0	.9	30.6	
	TOT %	4.8	1.6	.9	2.7	3.5	2.3	8.0	6.5	.0	.9	31.1	
	TOT OBS												235
	TOT PCT	12.9	8.4	9.4	9.1	8.6	8.9	22.4	19.4	.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
	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	.3	.1	.0	.0	.4	.0	.4	.0	.0		1.3	
	22+	.7	.5	2.4	.0	.0	.0	.8	.1	.0		4.6	
	TOT %	1.1	.6	2.4	.0	.4	.0	1.3	.1	.0	.0	5.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.4	.0	.0	.0	.0		.4	
	11-21	.7	.5	.4	.4	.0	.4	.0	.0	.0		2.5	
	22+	.6	.9	.3	.4	.0	.1	1.1	.3	.0		3.8	
	TOT %	1.4	1.5	.7	.8	.4	.5	1.1	.3	.0	.0	6.8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.3	.1	.0	.4	.0	.4	.0	.8	.0		2.1	
	11-21	.0	.0	.8	.0	.0	.4	.3	.1	.0		1.7	
	22+	.0	.9	.3	.0	.4	.1	.7	1.7	.0		4.2	
	TOT %	.3	1.1	1.2	.4	.4	.9	1.1	2.6	.0	.0	8.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.0	.0	.0	.0	.0	.0	.3	.5	.0		.8	
	11-21	.8	.4	.8	.0	.4	.0	.0	.4	.0		3.0	
	22+	.9	.6	1.4	1.8	.0	.0	1.5	.5	.0		6.8	
	TOT %	1.8	1.1	2.2	1.8	.4	.0	1.8	1.5	.0	.0	10.5	
	0-3	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
5<10	4-10	2.0	1.1	.7	.0	2.6	.8	1.6	.8	.0		9.7	
	11-21	1.2	.8	.9	2.1	.7	3.0	3.3	3.2	.0		15.2	
	22+	.3	.6	.6	1.3	.0	1.3	3.9	4.2	.0		12.2	
	TOT %	3.5	2.5	2.3	3.4	3.4	5.1	9.2	8.2	.0	.0	37.6	
	0-3	.4	.0	.0	.4	.0	.1	.3	.4	.0	.8	2.5	
10+	4-10	2.2	.9	.8	.4	1.2	1.3	2.8	1.7	.0		11.4	
	11-21	1.9	.5	.0	.9	1.9	.5	3.2	1.1	.0		10.1	
	22+	.4	.0	.0	.8	.4	.4	1.6	3.5	.0		7.2	
	TOT %	5.0	1.6	.8	2.6	3.5	2.3	7.9	6.6	.0	.8	31.2	
	TOT OBS												237
	TOT PCT	13.0	8.3	9.7	9.1	8.5	8.9	22.3	19.4	.0	.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	10.7	.0	1.8	3.6	12.5	5.4	3.6	.0	1.8	1.8	41.1	58.9	56
06&09	.0	.0	.0	.0	16.7	16.7	.0	.0	.0	.0	33.3	66.7	6
12&15	10.5	1.3	5.3	3.9	17.1	9.2	1.3	2.6	2.6	2.6	56.6	43.4	76
18&21	9.6	2.7	4.1	9.6	12.3	11.0	2.7	.0	2.7	1.4	56.2	43.8	73
TOT	21	3	8	12	30	19	5	2	5	4	109	102	211
PCT	10.0	1.4	3.8	5.7	14.2	9.0	2.4	.9	2.4	1.9	51.7	48.3	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	3.1	3.1	10.8	15.4	36.9	30.8	65
06&09	9.1	.0	.0	9.1	45.5	36.4	11
12&15	4.8	12.0	6.0	7.2	37.3	32.5	83
18&21	8.6	7.4	8.6	9.9	35.8	29.6	81
TOT	14	18	19	25	89	75	240
PCT	5.8	7.5	7.9	10.4	37.1	31.3	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	10.9	12.7	30.9	16.4	52.7	55
06&09	.0	.0	16.7	33.3	50.0	6
12&15	10.5	22.4	30.3	27.6	42.1	76
18&21	9.6	20.5	38.4	19.2	42.5	73
TOT	21	39	69	46	95	210
PCT	10.0	18.6	32.9	21.9	45.2	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
45/49	.0	.0	.0	.0	.0	.0	.0	.5	1	.5
40/44	.0	.0	.0	.0	.0	.5	.0	.0	1	.5
35/39	.0	.0	.0	.5	.0	.0	.5	1.5	5	2.5
30/34	.0	.0	.0	.0	.0	.0	5.5	6.5	24	12.1
25/29	.0	.0	.0	.0	.0	.5	2.0	7.5	20	10.1
20/24	.0	.0	.0	.0	1.5	6.0	8.5	8.5	49	24.6
15/19	.0	.0	.0	.0	1.0	4.5	10.6	2.5	37	18.6
10/14	.0	.0	.0	.0	.5	4.0	4.5	1.5	21	10.6
5/9	.0	.0	.0	.5	.5	6.0	4.5	1.5	26	13.1
0/4	.0	.0	.0	.5	.5	1.5	2.5	1.0	12	6.0
-1/-4	.0	.0	.0	.0	.0	.5	1.0	.0	3	1.5
TOTAL	0	0	0	3	8	47	79	82	199	100.0
PCT	.0	.0	.0	1.5	4.0	23.6	39.7	31.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0
	.5	.0	1.0	.0	.0	.0	.5	.5	.0	.0
	1.4	2.6	1.4	2.6	.0	.0	2.1	1.9	.0	.0
	1.6	.8	2.4	1.0	.0	1.5	2.4	.4	.0	.0
	2.3	2.3	4.5	3.3	2.9	.9	3.4	4.6	.0	.5
	2.9	1.0	1.8	2.6	.9	2.4	3.4	3.6	.0	.0
	1.4	.5	.0	.0	1.0	1.1	3.5	3.0	.0	.0
	3.3	1.6	.0	.0	.0	1.6	2.8	3.8	.0	.0
	.5	.5	.0	.0	.5	.6	2.6	1.3	.0	.0
	.0	.0	.0	.0	.0	.0	1.3	.3	.0	.0
	13.8	9.3	11.1	9.5	5.8	8.2	22.5	19.3	.0	.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	45	44	33	18	4	1	1	17.9	67
06&09	42	41	41	24	9	9	9	26.6	11
12&15	36	35	32	19	2	-3	-3	18.2	84
18&21	43	42	34	21	4	-3	-3	21.4	80
TOT	45	42	34	20	3	-3	-3	19.5	242

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	5.5	25.5	40.0	25.5	82	55
06&09	.0	.0	.0	25.0	25.0	50.0	90	4
12&15	.0	.0	.0	20.5	38.4	41.1	87	73
18&21	.0	1.4	7.1	24.3	42.9	24.3	83	70
TOT	0	3	8	47	81	63	85	202

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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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1	.0	.8
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	2	.0	1.5
6	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	1	.0	.8
5	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	2	.0	1.5
4	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	1	.0	.8
3	.0	.0	.0	.0	.0	.0	.0	2.3	2.3	.0	.0	.0	6	.0	4.6
2	.0	.0	.0	.0	.0	.0	.0	3.8	.8	.0	.0	.0	6	.0	4.6
1	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	2	.0	1.5
0	.0	.0	.0	.0	.0	.0	.0	3.8	.0	.0	.0	.0	5	.0	3.8
-1	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.8	.0	.0	3	.0	2.3
-2	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	3	.0	2.3
-3	.0	.0	.0	.0	.0	.0	4.6	.8	.0	.0	.0	.0	7	.0	5.4
-4	.0	.0	.0	.0	.0	.0	5.4	.0	.0	.0	.0	.0	7	.0	5.4
-5	.0	.0	.0	.0	.0	3.8	.8	.0	.0	.0	.0	.0	6	.0	4.6
-6	.0	.0	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0	5	.0	3.8
-7/-8	.0	.0	.0	.0	.0	7.7	.0	.8	.0	.0	.0	.0	11	.0	8.5
-9/-10	.0	.0	.0	.0	7.7	2.3	.0	.8	.0	.0	.0	.0	14	.0	10.8
-11/-13	.0	.0	.0	1.5	9.2	.0	.0	.0	.0	.0	.0	.0	14	.0	10.8
-14/-16	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	2.3
-17/-19	.0	.0	4.6	1.5	.8	.0	.0	.0	.0	.0	.0	.0	9	.0	6.9
-20/-22	.0	3.1	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	4.6
-23/-25	.8	4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	5.4
-26/-30	5.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	5.4
<-30	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.8	.8
TOTAL	10		7		23		17		8		2			1	129
		10		8		23		20		1		1	130		
PCT	7.7	7.7	5.4	6.2	17.7	17.7	13.1	15.4	6.2	.8	1.5	.8	100.0	.8	99.2

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	3.0	.0	.0	.0	3.0
1-2	.0	3.0	.0	.0	.0	.0	3.0
3-4	.0	.0	2.3	.0	.0	.0	2.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	2.3	2.3	.0	4.5
8-9	.0	.0	.0	.0	2.3	.0	2.3
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	5.3	2.3	4.5	.0	15.2

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	.8	.0	.0	.8
5-6	.0	.0	.0	3.0	.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	3.0	.0	3.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	3.0	3.0	.0	6.8

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	.0	3.0	.0	.0	.0	3.0
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	3.0	.0	.0	.0	3.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.0	.0	.0	.0	.0	3.0
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	3.0	.0	.0	.0	.0	3.0

PERIOD: (OVER-ALL) 1963-1971

FEBRUARY

TABLE 18 (CONT)

AREA 0007 ANTICOSTI ISLAND
49.6N 62.9W

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	.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

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	.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

W

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	.0	11.4	.0	.0	.0	11.4
3-4	.0	.0	3.0	.0	.0	.0	3.0
5-6	.0	.0	.0	.0	2.3	.0	2.3
7	.0	.0	.0	.0	.0	2.3	2.3
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	.0	3.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	14.4	3.0	2.3	2.3	24.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.0	.0	.8	.0	.0	.0	.8
3-4	.0	3.0	3.0	9.1	.0	.0	15.2
5-6	.0	.0	3.0	3.0	6.8	.0	12.9
7	.0	.0	3.0	3.8	.8	.8	8.3
8-9	.0	.0	.0	3.0	3.8	.0	6.8
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	.0	3.8	9.8	18.9	11.4	.8	44.7

TOTAL PCT

HGT	TOTAL PCT
<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+	
TOT PCT	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	3.0	6.1	3.0	.0	.0	.0	12.1	
1-2	.0	3.0	15.2	.0	.0	.0	18.2	
3-4	.0	3.0	9.1	9.1	.0	.0	21.2	
5-6	.0	.0	3.0	6.1	9.1	.0	18.2	
7	.0	.0	3.0	6.1	3.0	3.0	15.2	
8-9	.0	.0	.0	3.0	6.1	.0	9.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	3.0	3.0	.0	6.1	
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	
								33
TOT PCT	3.0	12.1	33.3	27.3	21.2	3.0	100.0	

PERIOD: (OVER-ALL) 1962-1971

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	7.1	11.9	16.7	9.5	7.1	2.4	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	4
6-7	.0	2.4	2.4	2.4	4.8	7.1	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
8-9	.0	.0	.0	.0	.0	.0	2.4	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	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	16.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	0
TOTAL	10	6	8	5	5	4	1	2	0	1	0	0	0	0	0	0	0	0	0	42	4
PCT	23.8	14.3	19.0	11.9	11.9	9.5	2.4	4.8	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1887-1970

AREA 0007 ANTICOSTI ISLAND
49.6N 63.0W

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	12.8	.0	.0	12.8	.0	.0	.0	.0	.0	.0	.0	87.2
NE	14.1	.0	6.3	.0	3.1	.0	.0	23.4	12.5	.0	.0	.0	.0	.0	.0	64.1
E	7.0	.0	.0	.0	7.0	.0	.0	14.0	.0	.0	18.6	.0	.0	.0	.0	67.4
SE	.0	.0	.0	8.0	16.0	.0	.0	24.0	8.0	.0	16.0	.0	.0	.0	.0	52.0
S	8.0	.0	.0	.0	.0	8.0	.0	16.0	.0	.0	16.0	.0	.0	.0	.0	68.0
SW	.0	.0	.0	.0	7.8	.0	.0	7.8	.0	.0	.0	.0	.0	.0	.0	92.2
W	.0	.0	.0	18.7	.0	.0	.0	18.7	2.9	.0	5.0	.0	.0	.0	.0	73.4
NW	.0	.0	.0	.0	5.6	3.2	.0	8.8	.0	.0	.8	.0	.0	.0	.0	90.4
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	2.6	.0	.7	.7	9.9	1.3	.0	15.1	2.6	.0	5.3	.0	.0	.0	.0	77.0
TOT OBS:	152															

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	6.5	.0	2.2	.0	4.3	2.2	.0	15.2	.0	.0	8.7	.0	.0	.0		76.1
06&09	10.0	.0	.0	.0	10.0	.0	.0	20.0	20.0	.0	.0	.0	.0	.0		60.0
12&15	.0	.0	.0	2.2	13.0	.0	.0	15.2	2.2	.0	2.2	.0	.0	.0		80.4
18&21	.0	.0	.0	.0	11.3	1.9	.0	13.2	1.9	.0	5.7	.0	.0	.0		79.2
TOT PCT	2.6	.0	.6	.6	9.7	1.3	.0	14.8	2.6	.0	5.2	.0	.0	.0		77.4
TOT OBS:	155															

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	3.7	6.4	1.4	.0	.0		12.7	13.8	12.1	19.2	.0	100.0	17.2	26.9	7.8	.0
NE	.0	3.3	3.5	3.7	.6	.6		11.8	20.5	15.9	23.1	10.0	.0	12.1	13.2	7.0	5.0
E	.0	1.6	2.9	2.4	.0	.0		6.8	17.6	6.8	15.4	.0	.0	9.5	5.8	5.5	5.0
SE	.0	3.5	4.3	.7	.0	.0		8.0	12.1	10.6	7.7	10.0	.0	5.2	.0	9.4	12.5
S	.0	2.2	3.5	2.5	.0	.0		8.3	16.3	13.6	7.7	10.0	.0	2.6	.0	8.6	15.0
SW	.0	3.8	4.5	.5	.0	.0		8.8	14.0	8.3	.0	10.0	.0	7.8	10.5	13.3	7.5
W	1.9	4.9	8.1	6.4	1.1	.0		22.5	17.1	12.1	15.4	40.0	.0	19.8	23.7	32.0	23.8
NW	.2	3.0	4.9	7.6	.2	.6		19.9	20.6	20.5	3.8	10.0	.0	29.9	21.1	16.4	31.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0	.0	7.7	10.0	.0	.0	.0	.0	.0
TOT OBS	7	41	65	39	3	2	157		16.8	33	13	10	1	29	19	32	20
TOT PCT	4.5	26.1	41.4	24.8	1.9	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	2.2	5.6	4.5	.6	.0		12.7	13.8	14.1	9.1	20.8	4.8
NE	1.6	3.0	4.6	1.9	.6		11.8	20.5	17.9	9.1	12.5	6.3
E	.5	2.9	2.9	.6	.0		6.8	17.6	9.2	.0	7.8	5.3
SE	1.9	3.8	2.2	.0	.0		8.0	12.1	9.8	9.1	3.1	10.6
S	.0	5.3	2.1	1.0	.0		8.3	16.3	12.0	9.1	1.6	11.1
SW	.6	4.6	3.2	.3	.0		8.8	14.0	6.0	9.1	8.9	11.1
W	4.5	6.8	7.5	3.7	.0		22.5	17.1	13.0	36.4	21.4	28.8
NW	.8	6.4	9.4	2.7	.6		19.9	20.6	15.8	9.1	24.0	22.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	2.2	9.1	.0	.0
TOT OBS	21	60	57	17	2	157		16.8	46	11	48	52
TOT PCT	13.4	38.2	36.3	10.8	1.3		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	2.2	19.6	47.8	21.7	2.2	4.3	18.3	100.0	46
06&09	9.1	18.2	36.4	18.2	18.2	.0	.0	10.0	100.0	11
12&15	.0	4.2	25.0	37.5	31.3	2.1	.0	17.2	100.0	48
18&21	.0	.0	30.8	44.2	23.1	1.9	.0	16.7	100.0	52
TOT	2	5	41	65	39	3	2	16.8		157
PCT	1.3	3.2	26.1	41.4	24.8	1.9	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	5.7	.0	3.9	4.3		4.4
NE	2.3	1.4	.2	6.8		5.8
E	2.1	.7	.5	4.3		5.6
SE	2.1	.9	2.0	3.0		4.9
S	.0	.5	3.8	2.0		6.5
SW	.7	2.3	4.3	1.8		4.9
W	8.4	4.7	5.2	3.0		3.8
NW	8.6	7.0	4.5	2.0		3.2
VAR	.0	.0	.0	.0		.0
CALM	.7	.0	.0	.7		4.0
TOT OBS	43	24	34	39	140	4.5
TOT PCT	30.7	17.1	24.3	27.9	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	1.1	1.3	.0	.0	.7	1.4	9.5	
NE	.0	.0	.0	.2	3.4	.9	.0	.7	.0	.2	5.4	
E	.0	.0	.0	1.3	1.3	1.1	.0	.0	.0	1.3	2.9	
SE	1.4	.0	.7	.0	.9	.2	.0	.7	.0	.2	3.9	
S	.7	.0	.0	.7	1.3	.7	.0	.0	.0	.5	2.3	
SW	.0	.0	.0	.0	1.6	.0	.0	.0	.7	.0	6.8	
W	.5	.0	.0	2.0	1.8	.7	.0	.0	.0	.0	15.9	
NW	.2	.0	.0	.2	.2	2.3	.0	.0	.0	.7	18.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	
TOT OBS	4	0	1	6	16	10	0	2	2	7	92	140
TOT PCT	2.9	.0	.7	4.3	11.4	7.1	.0	1.4	1.4	5.0	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 >50YD	* OR >0
* OR >6500	2.8	6.4	6.4	6.4	6.4	6.4	6.4	6.4
* OR >5000	4.3	7.8	7.8	7.8	7.8	7.8	7.8	7.8
* OR >3500	4.3	7.8	7.8	7.8	7.8	7.8	7.8	7.8
* OR >2000	6.4	14.2	14.2	14.9	14.9	14.9	14.9	14.9
* OR >1000	9.9	21.3	24.1	25.5	26.2	26.2	26.2	26.2
* OR >600	10.6	23.4	27.7	29.8	30.5	30.5	30.5	30.5
* OR >300	10.6	23.4	28.4	30.5	31.2	31.2	31.2	31.2
* OR >150	10.6	23.4	28.4	30.5	31.2	31.2	31.2	31.2
* OR > 0	10.6	23.4	28.4	30.5	32.6	32.6	33.3	34.0
TOTAL	15	33	40	43	46	46	47	48

TOTAL NUMBER OF OBS: 141 PCT FREQ NH <5/8: 66.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
29.6	18.2	10.8	6.1	4.1	3.4	2.7	7.4	19.6	2.7	148

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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	.7	.7	.0	.5	.2	.0	.0	2.0	
	TOT %	.0	.0	.0	.7	.7	.0	.5	.2	.0	.0	2.0	
	PCP	.0	.2	.5	.7	.0	.0	.7	.0	.0	.0	2.0	
1/2<1	NO PCP	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.2	.5	1.3	.0	.0	.7	.0	.0	.0	2.6	
	PCP	1.2	.3	.5	.0	.7	.0	.7	.7	.0	.0	4.0	
1<2	NO PCP	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	1.2	.3	1.2	.0	.7	.0	.7	.7	.0	.0	4.6	
	PCP	.5	1.3	.0	1.3	.0	.0	1.0	.5	.0	.0	4.6	
2<5	NO PCP	.0	.0	.7	.7	.0	.0	1.2	.2	.0	.0	2.6	
	TOT %	.5	1.3	.7	2.0	.0	.0	2.2	.7	.0	.0	7.3	
	PCP	.0	.0	.0	.0	.7	.7	1.3	.0	.0	.0	2.6	
5<10	NO PCP	4.5	2.8	2.3	1.2	4.1	5.8	5.8	4.6	.0	.7	31.8	
	TOT %	4.5	2.8	2.3	1.2	4.8	6.5	7.1	4.6	.0	.7	34.4	
	PCP	.0	.7	.0	.0	.0	.0	.7	.7	.0	.0	2.0	
10+	NO PCP	6.8	4.6	2.5	3.1	2.2	2.0	11.3	13.9	.0	.7	47.0	
	TOT %	6.8	5.3	2.5	3.1	2.2	2.0	11.9	14.6	.0	.7	49.0	
	TOT OBS												151
	TOT PCT	12.9	9.9	7.1	8.3	8.3	8.4	23.0	20.7	.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
	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	.7	.0	.0	.5	.2	.0		1.3	
	22+	.0	.0	.0	.0	.7	.0	.0	.0	.0		.7	
	TOT %	.0	.0	.0	.7	.7	.0	.5	.2	.0	.0	2.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	1.3	.0	.0	.0	.0	.0		1.3	
	22+	.0	.2	.5	.0	.0	.0	.7	.0	.0		1.3	
	TOT %	.0	.2	.5	1.3	.0	.0	.7	.0	.0	.0	2.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.5	.2	.0	.0	.7	.0	.0	.0	.0		1.3	
	11-21	.7	.2	1.2	.0	.0	.0	.0	.0	.0		2.0	
	22+	.0	.0	.0	.0	.0	.0	.7	.7	.0		1.3	
	TOT %	1.2	.3	1.2	.0	.7	.0	.7	.7	.0	.0	4.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.0	.0	.0	.7	.0	.0	.7	.0	.0		1.3	
	11-21	.5	.0	.0	1.3	.0	.0	1.5	.7	.0		4.0	
	22+	.0	1.3	.7	.0	.0	.0	.0	.0	.0		2.0	
	TOT %	.5	1.3	.7	2.0	.0	.0	2.2	.7	.0	.0	7.3	
	0-3	.7	.0	.0	.0	.0	.0	1.3	.0	.0	.7	2.6	
5<10	4-10	.0	.8	.5	.2	1.2	3.3	2.5	.2	.0		8.6	
	11-21	3.1	1.3	1.2	1.0	2.5	3.0	3.0	2.2	.0		17.2	
	22+	.7	.7	.7	.0	1.2	.2	.3	2.3	.0		6.0	
	TOT %	4.5	2.8	2.3	1.2	4.8	6.5	7.1	4.6	.0	.7	34.4	
	0-3	.5	.0	.0	.0	.0	.0	.7	.2	.0	.7	2.0	
10+	4-10	3.3	.5	1.2	2.8	.5	.7	2.0	3.0	.0		13.9	
	11-21	2.3	2.2	.7	.2	1.2	1.3	3.1	5.6	.0		16.6	
	22+	.7	2.6	.7	.2	.5	.0	6.1	5.8	.0		16.6	
	TOT %	6.8	5.3	2.5	3.1	2.2	2.0	11.9	14.6	.0	.7	49.0	
	TOT OBS												151
	TOT PCT	12.9	9.9	7.1	8.3	8.3	8.4	23.0	20.7	.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
00E03	4.8	.0	2.4	4.8	9.5	4.8	.0	.0	.0	7.1	33.3	66.7	42
06E09	.0	.0	.0	.0	.0	.0	.0	.0	14.3	14.3	28.6	71.4	7
12E15	2.3	.0	.0	2.3	11.4	15.9	.0	.0	2.3	6.8	40.9	59.1	44
18E21	2.0	.0	.0	6.0	14.0	2.0	.0	4.0	.0	.0	28.0	72.0	50
TOT	4	0	1	6	16	10	0	2	2	7	48	95	143
PCT	2.8	.0	.7	4.2	11.2	7.0	.0	1.4	1.4	4.9	33.6	66.4	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
00E03	4.3	2.2	4.3	8.7	43.5	37.0	46
06E09	.0	10.0	.0	10.0	30.0	50.0	10
12E15	2.2	.0	4.4	6.7	37.8	48.9	45
18E21	.0	3.8	5.7	5.7	22.6	62.3	53
TOT	3	4	7	11	52	77	154
PCT	1.9	2.6	4.5	7.1	33.8	50.0	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
00E03	4.8	9.5	21.4	14.3	64.3	42
06E09	.0	.0	.0	33.3	66.7	6
12E15	2.3	2.3	15.9	31.8	52.3	44
18E21	2.0	4.1	14.3	16.3	69.4	49
TOT	4	7	23	30	88	141
PCT	2.8	5.0	16.3	21.3	62.4	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
50/54	.0	.0	.0	.0	.8	.0	.0	.0	1	.8
45/49	.0	.0	.0	.0	.0	.0	.8	.8	2	1.7
35/39	.0	.0	.0	.0	.8	2.5	6.6	1.7	14	11.6
30/34	.0	.0	.0	1.7	2.5	5.0	6.6	8.3	29	24.0
25/29	.0	.0	.0	1.7	.8	5.0	9.9	5.8	28	23.1
20/24	.0	.0	.8	.0	.0	4.1	4.1	7.4	20	16.5
15/19	.0	.0	.0	.8	2.5	3.3	3.3	.0	12	9.9
10/14	.0	.0	.8	.0	.8	3.3	1.7	.0	8	6.6
5/9	.0	.0	.0	.0	.8	1.7	1.7	.0	5	4.1
0/4	.0	.0	.0	.0	.0	.0	.8	.8	2	1.7
TOTAL	0	0	2	5	11	30	43	30	121	100.0
PCT	.0	.0	1.7	4.1	9.1	24.8	35.5	24.8		

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	.0	.0	.0
.8	.0	.0	.8	.0	.0	.0	.0	.0	.0
2.9	3.7	1.4	.8	2.5	.0	.0	.2	.0	.0
1.2	2.9	4.5	4.1	1.9	2.7	3.1	3.5	.0	.0
3.7	2.1	2.1	1.0	2.3	2.5	4.5	4.1	.0	.8
1.2	.0	.0	2.5	1.4	2.9	3.5	5.0	.0	.0
.6	.8	.0	1.0	.6	.8	2.1	3.9	.0	.0
.6	.0	.0	.0	.8	.0	2.9	2.3	.0	.0
.6	.0	.8	.0	.0	.0	1.7	1.0	.0	.0
.8	.0	.0	.0	.0	.0	.0	.8	.0	.0
13.4	9.5	8.9	10.3	9.5	8.9	17.8	20.9	.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
00E03	49	48	40	28	11	4	4	28.0	47
06E09	52	51	51	25	6	6	6	26.3	11
12E15	51	50	46	23	5	1	1	25.1	48
18E21	50	49	48	26	9	6	6	25.6	54
TOT	52	51	45	27	7	4	1	26.2	160

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
00E03	.0	5.0	5.0	17.5	47.5	25.0	83	40
06E09	.0	.0	.0	.0	.0	100.0	95	3
12E15	.0	2.7	13.5	29.7	24.3	29.7	81	37
18E21	.0	9.1	9.1	29.5	36.4	15.9	78	44
TOT	0	7	11	31	44	31	81	124

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1887-1970

AREA 0007 ANTICOSTI ISLAND
49.0N 63.0W

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	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1	.0	1.1
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1	.0	1.1
7/8	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	.0	.0	2	.0	2.1
6	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1	1.1	.0
5	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	.0	.0	2	1.1	1.1
4	.0	.0	.0	.0	.0	.0	.0	1.1	.0	1.1	.0	2	.0	2.1
3	.0	.0	.0	.0	.0	.0	2.1	5.3	.0	.0	.0	7	2.1	5.3
2	.0	.0	.0	.0	.0	.0	3.2	1.1	.0	.0	.0	4	.0	4.2
1	.0	.0	.0	.0	.0	.0	4.2	1.1	.0	.0	.0	5	1.1	4.2
0	.0	.0	.0	.0	.0	.0	10.5	1.1	.0	.0	.0	11	.0	11.6
-1	.0	.0	.0	.0	.0	2.1	3.2	.0	.0	.0	.0	5	.0	5.3
-2	.0	.0	.0	.0	.0	7.4	.0	.0	.0	.0	.0	7	.0	7.4
-3	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	.0	3	.0	3.2
-4	.0	.0	.0	.0	1.1	5.3	2.1	.0	.0	.0	.0	8	.0	8.4
-5	.0	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	2	.0	2.1
-6	.0	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	5	.0	5.3
-7/-8	.0	.0	.0	.0	8.4	.0	.0	.0	.0	.0	.0	8	.0	8.4
-9/-10	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	1	.0	1.1
-11/-13	.0	.0	1.1	5.3	.0	.0	.0	.0	.0	.0	.0	6	.0	6.3
-14/-16	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	4.2
-17/-19	.0	3.2	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	5	.0	5.3
-20/-22	1.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	3.2
-23/-25	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	2.1
TOTAL	3	5	6	6	17	17	24	11	3	1	2	95	5	90
PCT	3.2	5.3	6.3	6.3	17.9	17.9	25.3	11.6	3.2	1.1	2.1	100.0	5.3	94.7

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	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.3	.0	.0	.0	2.3
3-4	.0	.0	3.1	.0	.0	.0	3.1
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	.0	5.5	.0	.0	.0	5.5

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	.0	.0	.0	.0	.0	.0
3-4	.0	.0	3.1	3.1	.0	.0	6.3
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	.8	3.1	3.1	.0	.0	7.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.5	3.1	.0	.0	.0	8.6
1-2	.0	.0	2.3	.0	.0	.0	2.3
3-4	.0	.0	3.1	3.1	.0	.0	6.3
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	5.5	8.6	3.1	.0	.0	17.2

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	3.1	1.6	.0	.0	.0	4.7
3-4	.0	3.1	.0	.8	.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	.0	6.3	1.6	.8	.0	.0	8.8

PERIOD: (OVER-ALL) 1963-1970

MARCH

AREA 0007 ANTICOSTI ISLAND
49.0N 63.0W

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	5.5	.0	.0	.0	5.5	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	5.5	.0	.0	5.5	.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	3.1	.0	.0	.0	3.1	.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	3.1	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	8.6	8.6	.0	.0	17.2	.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	3.1	.0	.0	.0	.0	3.1	
1-2	.0	6.3	.0	.0	.0	.0	6.3	.0	.0	3.9	.0	.0	.0	3.9	
3-4	.0	3.1	3.1	2.3	.0	.0	8.6	.0	.0	3.1	.8	.0	.0	3.9	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	3.1	.0	.0	6.3	
7	.0	.0	.0	3.1	.0	.0	3.1	.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	3.1	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	2.3	.0	2.3	.0	.0	.0	.0	.8	.0	.8	
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	9.4	3.1	8.6	2.3	.0	23.4	.0	3.1	10.2	3.9	.8	.0	18.0	96.9

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	9.1	3.0	.0	.0	.0	18.2	
1-2	.0	9.1	15.2	.0	.0	.0	24.2	
3-4	.0	6.1	15.2	15.2	.0	.0	36.4	
5-6	.0	.0	3.0	3.0	.0	.0	6.1	
7	.0	.0	3.0	3.0	.0	.0	6.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	3.0	.0	.0	3.0	
12	.0	.0	.0	.0	3.0	.0	3.0	
13-16	.0	.0	.0	3.0	.0	.0	3.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	24.2	39.4	27.3	3.0	.0	100.0	33

PERIOD: (OVER-ALL) 1962-1970

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	5.3	23.7	28.9	2.6	2.6	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	3
6-7	.0	.0	2.6	2.6	2.6	.0	2.6	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
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	13.2	.0	.0	2.6	2.6	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	3
TOTAL	7	9	12	3	3	1	1	1	1	0	0	0	0	0	0	0	0	0	0	38	3
PCT	18.4	23.7	31.6	7.9	7.9	2.6	2.6	2.6	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1960-1970
(OVER-ALL) 1883-1970

AREA 0007 ANTICOSTI ISLAND
49.3N 63.5W

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	4.8	.0	4.8	6.5	.0	.0	.0	.0		.0	88.7
NE	.0	.0	.0	.0	3.8	.0	.0	3.8	.0	.0	15.4	.0	.0		.0	80.8
E	.0	.0	4.9	.0	30.9	.0	.0	35.8	13.6	.0	.0	.0	.0		.0	50.6
SE	11.5	.0	.0	.0	2.6	.0	.0	14.1	6.4	.0	10.3	.0	.0		.0	69.2
S	14.6	.0	.0	.0	8.3	.0	.0	22.9	.0	.0	16.7	.0	.0		.0	60.4
SW	16.2	5.4	.0	.0	.0	.0	.0	21.6	.0	.0	5.4	5.4	5.4		.0	62.2
W	2.9	.0	2.1	.0	2.9	.0	.0	7.9	.0	.0	2.9	.0	2.9		.0	86.4
NW	.0	.0	.4	.0	1.8	2.2	.0	4.5	3.6	.0	.0	.0	.0		.0	91.9
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	30.0	.0	.0		.0	70.0
TOT PCT	4.1	.5	1.0	.0	5.2	1.0	.0	11.9	3.6	.0	5.2	.5	1.0		.0	77.7
TOT OBS:	193															

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
00E03	7.1	.0	1.8	.0	3.6	1.8	.0	14.3	5.4	.0	7.1	.0	1.8		.0	71.4
06E09	.0	.0	.0	.0	8.0	.0	.0	8.0	.0	.0	4.0	4.0	.0		.0	84.0
12E15	5.3	.0	.0	.0	7.0	1.8	.0	14.0	5.3	.0	3.5	.0	.0		.0	77.2
18E21	1.7	1.7	1.7	.0	3.3	.0	.0	8.3	1.7	.0	5.0	.0	1.7		.0	83.3
TOT PCT	4.0	.5	1.0	.0	5.1	1.0	.0	11.6	3.5	.0	5.1	.5	1.0		.0	78.3
TOT OBS:	198															

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	2.9	1.8	1.7	.5	.4		8.8	14.4	8.7	11.1	11.4	12.5	5.7	14.6	6.1	15.6
NE	1.2	2.0	2.4	.0	.0	.0		5.6	10.1	2.6	11.1	1.1	37.5	6.8	6.3	9.6	6.3
E	1.2	3.5	3.7	1.7	.0	.0		10.1	13.2	6.6	11.1	4.5	.0	16.1	12.5	7.8	17.2
SE	1.0	5.1	2.2	1.2	.0	.0		9.5	10.7	13.8	22.2	4.5	.0	4.2	8.3	14.4	1.6
S	.0	2.1	3.8	.0	.0	.0		5.9	12.7	7.1	8.3	.0	25.0	4.7	6.3	8.3	.0
SW	.0	3.3	4.8	.5	.5	.0		9.0	13.3	7.7	2.8	18.2	.0	9.9	10.4	7.2	7.8
W	.5	6.0	6.6	1.7	2.0	.4		17.1	16.2	20.4	11.1	27.3	.0	15.6	8.3	16.7	12.5
NW	.6	7.3	13.7	3.9	2.4	1.2		29.1	18.6	23.0	22.2	23.9	25.0	34.9	33.3	29.4	39.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.9							4.9	.0	10.2	.0	9.1	.0	2.1	.0	4.4	.0
TOT OBS	23	66	79	22	11	4	205		14.3	49	9	22	4	48	12	45	16
TOT PCT	11.2	32.2	38.5	10.7	5.4	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	3.0	2.7	1.8	.9	.4		8.8	14.4	9.1	11.5	7.5	8.6
NE	1.6	2.7	1.3	.0	.0		5.6	10.1	3.9	6.7	6.7	5.7
E	2.4	4.6	2.2	.9	.0		10.1	13.2	7.3	3.8	15.4	10.2
SE	3.5	4.3	1.6	.1	.0		9.5	10.7	15.1	3.8	5.0	11.1
S	1.2	3.0	1.6	.0	.0		5.9	12.7	7.3	3.8	5.0	6.1
SW	1.3	5.9	1.3	.5	.0		9.0	13.3	6.9	15.4	10.0	7.4
W	3.5	7.0	3.8	2.4	.4		17.1	16.2	19.0	23.1	14.2	15.6
NW	3.3	11.3	9.8	3.0	1.7		29.1	18.6	22.8	24.0	34.6	32.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.9						4.9	.0	8.6	7.7	1.7	3.3
TOT OBS	51	85	48	16	5	205		14.3	98	26	60	61
TOT PCT	24.9	41.5	23.4	7.8	2.4		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1960-1970
(OVER-ALL) 1883-1970

AREA 0007 ANTICOSTI ISLAND
49.3N 63.5W

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
00603	8.6	8.6	34.5	34.5	10.3	3.4	.0	11.8	100.0	58
06609	7.7	3.8	42.3	30.8	11.5	3.8	.0	12.1	100.0	26
12615	1.7	8.3	25.0	48.3	8.3	3.3	5.0	16.0	100.0	60
18621	3.3	3.3	32.8	36.1	13.1	9.8	1.6	16.0	100.0	61
TOT	10	13	66	79	22	11	4	14.3		205
PCT	4.9	6.3	32.2	38.5	10.7	5.4	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	3.4	.6	.8	3.4		4.5
NE	2.2	1.0	.0	.0		2.0
E	2.8	.8	2.4	6.0		5.7
SE	1.6	.8	2.4	4.6		5.8
S	1.4	.0	.0	3.6		5.7
SW	1.8	1.0	.4	4.4		5.6
W	9.1	3.6	3.8	2.8		3.5
NW	16.7	9.4	6.9	3.2		3.2
VAR	.0	.0	.0	.0		.0
CALM	1.6	1.6	.8	1.6		4.5
TOT OBS	51	16	22	37	126	4.2
TOT PCT	40.5	12.7	17.5	29.4	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	.0	.8	1.2	.8	.0	.0	.0	.8	4.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	
E	.0	.8	.0	1.6	2.0	.8	.8	.0	.0	1.6	4.4	
SE	.8	.0	.0	1.0	.4	.8	.0	.8	.8	.0	4.8	
S	.6	.0	.0	1.4	.0	.0	.0	.0	.0	.0	3.0	
SW	.2	.0	.0	.2	4.0	.2	.0	.0	.0	.0	3.0	
W	.0	.0	.0	2.2	.6	1.8	.8	.0	.0	.0	13.9	
NW	.2	.8	.0	.8	1.4	1.2	.0	.8	.0	1.6	23.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.8	1.6	.0	.0	.0	.0	3.2	
TOT OBS	3	2	0	10	13	9	2	2	1	5	79	126
TOT PCT	2.4	1.6	.0	7.9	10.3	7.1	1.6	1.6	.8	4.0	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 >500YD	• OR >0
• OR >6500	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
• OR >5000	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
• OR >3500	7.0	7.8	7.8	7.8	7.8	7.8	7.8	7.8
• OR >2000	7.8	12.5	14.1	14.8	14.8	14.8	14.8	14.8
• OR >1000	10.2	18.0	23.4	24.2	25.0	25.0	25.0	25.0
• OR >600	12.5	22.7	29.7	32.0	33.6	33.6	33.6	33.6
• OR >300	12.5	22.7	29.7	32.0	33.6	33.6	33.6	33.6
• OR >150	12.5	23.4	30.5	32.8	34.4	34.4	34.4	35.2
• OR > 0	12.5	23.4	30.5	32.8	34.4	35.2	36.7	37.5
TOTAL	16	30	39	42	44	45	47	48

TOTAL NUMBER OF OBS: 128 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
21.8	17.6	12.7	7.7	1.4	1.4	4.2	8.5	22.5	2.1	142

APRIL

PERIOD: (PRIMARY) 1960-1970
(OVER-ALL) 1889-1970

AREA 0007 ANTICOSTI ISLAND
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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	.4	.0	.5	.5	.0	.0	.0	.1	.0	.0	1.6	
	NO PCP	.0	.0	.4	.6	.4	.1	.0	.0	.0	.5	2.1	
	TOT %	.4	.0	.9	1.2	.4	.1	.0	.1	.0	.9	3.6	
1/2<1	PCP	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.5	.5	.3	.3	.0	.0	.0	.0	1.6	
	TOT %	.0	.0	.9	.6	.3	.3	.0	.0	.0	.0	2.1	
1<2	PCP	.0	.0	.5	.0	1.0	.0	.5	.0	.0	.0	2.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.5	.0	1.0	.0	.5	.0	.0	.0	2.1	
2<5	PCP	.0	.1	2.3	.1	.0	1.0	.4	.1	.0	.0	4.1	
	NO PCP	.5	.0	.0	.5	.4	.1	.5	1.0	.0	1.0	4.1	
	TOT %	.5	.1	2.3	.6	.4	1.0	.9	1.2	.0	1.0	8.3	
5<10	PCP	.0	.0	.0	.6	.4	1.0	.5	1.0	.0	.0	3.6	
	NO PCP	1.7	.6	1.8	1.7	.0	1.8	5.4	4.0	.0	.5	15.5	
	TOT %	1.7	.6	1.8	2.3	.4	2.8	5.9	5.1	.0	.5	19.2	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	5.4	2.6	4.0	5.3	3.8	5.2	12.8	22.5	.0	3.1	64.8	
	TOT %	5.4	2.6	4.0	5.3	3.8	5.2	12.8	22.5	.0	3.1	64.8	
	TOT OBS												193
	TOT PCT	8.0	3.4	10.3	10.1	6.2	9.6	19.1	28.9	.0	5.2	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	.5	.5	
	4-10	.0	.0	.0	.5	.0	.0	.0	.0	.0		.5	
	11-21	.0	.0	.0	.5	.4	.1	.0	.0	.0		1.0	
	22+	.4	.0	.9	.1	.0	.0	.0	.1	.0		1.6	
	TOT %	.4	.0	.9	1.2	.4	.1	.0	.1	.0	.5	3.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.5	.0	.0	.0	.0	.0		.5	
	11-21	.0	.0	.9	.1	.3	.3	.0	.0	.0		1.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.9	.6	.3	.3	.0	.0	.0	.0	2.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.5	.0	.0	.0	.0		.5	
	11-21	.0	.0	.5	.0	.5	.0	.5	.0	.0		1.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.5	.0	1.0	.0	.5	.0	.0	.0	2.1	
2<5	0-3	.5	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.6	
	4-10	.0	.0	.5	.0	.0	.5	.5	.0	.0		1.6	
	11-21	.0	.1	.9	.0	.4	.6	.0	1.0	.0		3.1	
	22+	.0	.0	.9	.6	.0	.0	.4	.1	.0		2.1	
	TOT %	.5	.1	2.3	.6	.4	1.2	.9	1.2	.0	1.0	8.3	
5<10	0-3	.0	.0	.5	.5	.0	.0	.0	.0	.0	.5	1.6	
	4-10	.3	.1	.8	1.7	.0	.6	.9	1.3	.0		5.7	
	11-21	.0	.5	.5	.1	.4	1.2	1.7	1.8	.0		6.2	
	22+	1.4	.0	.0	.0	.0	1.0	1.3	1.9	.0		5.7	
	TOT %	1.7	.6	1.8	2.3	.4	2.8	3.9	5.1	.0	.5	19.2	
10+	0-3	1.6	1.0	.5	.5	.0	.0	.5	.6	.0	3.1	7.8	
	4-10	2.3	.9	2.5	2.7	1.7	2.3	4.9	6.5	.0		23.8	
	11-21	.8	.6	1.0	1.6	2.1	2.8	4.8	10.6	.0		24.4	
	22+	.9	.0	.0	.5	.0	.0	2.6	4.8	.0		8.8	
	TOT %	5.4	2.6	4.0	5.3	3.8	5.2	12.8	22.5	.0	3.1	64.8	
	TOT OBS												193
	TOT PCT	8.0	3.4	10.3	10.1	6.2	9.6	18.1	28.9	.0	5.2	100.0	

PERIOD: (PRIMARY) 1960-1970
(OVER-ALL) 1883-1970

AREA 0007 ANTICOSTI ISLAND
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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	2.6	.0	13.2	10.5	5.3	.0	.0	.0	5.3	36.8	63.2	38
06&09	.0	.0	.0	.0	7.1	7.1	7.1	.0	.0	.0	21.4	78.6	14
12&15	7.7	.0	.0	10.3	10.3	5.1	2.6	2.6	.0	2.6	41.0	59.0	39
18&21	.0	2.3	.0	4.5	9.1	9.1	.0	2.3	2.3	4.5	34.1	65.9	44
TOT	3	2	0	11	13	9	2	2	1	5	48	87	135
PCT	2.2	1.5	.0	8.1	9.6	6.7	1.5	1.5	.7	3.7	35.6	64.4	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	3.6	1.8	.0	14.3	25.0	55.4	56
06&09	.0	.0	4.0	4.0	16.0	76.0	25
12&15	5.3	3.5	3.5	7.0	15.8	64.9	57
18&21	3.3	1.7	1.7	5.0	16.7	71.7	60
TOT	7	4	4	16	37	130	198
PCT	3.5	2.0	2.0	8.1	18.7	65.7	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 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	5.9	32.4	11.8	55.9	34
06&09	.0	.0	.0	25.0	75.0	12
12&15	7.7	10.3	23.1	17.9	59.0	39
18&21	2.3	4.7	14.0	20.9	65.1	43
TOT	4	8	26	23	79	128
PCT	3.1	6.3	20.3	18.0	61.7	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
55/59	.0	.0	.0	.0	.8	.0	.0	.0	1	.8
50/54	.0	.0	.0	.0	.8	.8	.8	.0	3	2.5
45/49	.0	.0	.0	.0	.8	.0	.8	.0	2	1.7
40/44	.0	.0	.0	1.7	3.4	4.2	1.7	.8	14	11.8
35/39	.0	.0	.0	.0	2.5	7.6	6.7	10.9	33	27.7
30/34	.0	.0	.0	1.7	3.4	11.8	7.6	16.0	48	40.3
25/29	.0	.0	.0	.0	.0	3.4	2.5	2.5	10	8.4
20/24	.0	.0	.0	.0	.8	.8	.8	1.7	5	4.2
15/19	.0	.0	.0	.0	.8	.0	.8	.0	2	1.7
10/14	.0	.0	.0	.0	.0	.0	.0	.8	1	.8
TOTAL	0	0	0	4	16	34	26	39	119	100.0
PCT	.0	.0	.0	3.4	13.4	28.6	21.8	32.8		

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	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	1.7	.0	.8
.0	.0	.0	.0	.0	.0	.8	.0	.8	.0
.6	1.1	.0	1.7	.0	.8	1.7	5.9	.0	.0
2.1	1.1	2.3	.8	2.3	2.9	7.6	8.6	.0	.0
3.4	.0	4.0	4.6	4.2	4.6	8.0	9.9	.0	1.7
1.5	1.3	2.3	.8	.0	.8	.4	1.3	.0	.0
.0	.0	1.3	.4	.0	.0	.4	2.1	.0	.0
.0	.0	.0	.0	.0	.0	1.5	.2	.0	.0
.0	.0	.0	.0	.0	.0	.0	.8	.0	.0
8.4	3.4	9.9	8.4	6.5	10.1	19.5	31.3	.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	59	58	53	34	26	18	18	35.5	60
06&09	56	55	51	33	27	14	14	33.7	27
12&15	55	54	53	34	25	17	17	34.6	57
18&21	57	56	50	37	21	16	16	36.6	63
TOT	59	56	53	34	25	16	14	35.3	207

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	10.5	26.3	26.3	31.6	82	38
06&09	.0	.0	.0	28.6	42.9	28.6	86	14
12&15	.0	2.9	5.9	32.4	17.6	41.2	85	34
18&21	.0	2.7	27.0	29.7	13.5	27.0	78	37
TOT	0	4	16	36	27	40	82	123

APRIL

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1883-1970

AREA 0007 ANTICOSTI ISLAND
49.3N 63.5W

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	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	1	.0	.6
11/13	.0	.0	.0	.0	.0	.0	.0	1.8	1.2	.6	.0	6	.0	3.6
9/10	.0	.0	.0	.0	.0	.0	.6	.6	.0	.0	.6	3	.0	1.8
7/8	.0	.0	.0	.0	.0	.6	2.4	2.4	.6	.0	.0	10	.0	6.1
6	.0	.0	.0	.0	.0	.0	1.8	.0	.6	.0	.0	4	.0	2.4
5	.0	.0	.0	.0	.0	1.2	1.8	.0	.0	.0	.0	5	.6	2.4
4	.0	.0	.0	.0	.0	2.4	5.5	.6	.6	.0	.0	15	1.2	7.9
3	.0	.0	.0	.0	.0	6.1	3.0	.6	.0	.0	.0	16	.6	9.1
2	.0	.0	.0	.0	2.4	9.7	3.6	.0	.0	.0	.0	26	.0	15.8
1	.0	.0	.0	.0	3.0	4.8	.0	.0	.0	.0	.0	13	1.2	6.7
0	.0	.0	.0	.0	3.6	4.2	1.2	.6	.0	.6	.0	17	.0	10.3
-1	.0	.0	.0	.0	5.5	1.2	.0	.0	.0	.0	.0	11	.0	6.7
-2	.0	.0	.0	.6	6.1	1.2	.0	.0	.0	.0	.0	13	1.2	6.7
-3	.0	.0	.0	1.8	1.2	.0	.0	.0	.0	.0	.0	5	.0	3.0
-4	.0	.0	.0	.6	1.2	1.2	.0	.0	.0	.0	.0	5	.0	3.0
-5	.0	.0	.0	1.8	.0	.6	.0	.0	.0	.0	.0	4	.0	2.4
-6	.0	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	2	.0	1.2
-7/-8	.0	.0	.6	1.2	.6	.0	.0	.0	.0	.0	.0	4	.0	2.4
-9/-10	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.6
-11/-13	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.6
-14/-16	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	1.2
-17/-19	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.6
TOTAL	2		3		39		33		6		1		8	157
		2		11		55		11		2		165		
PCT	1.2	1.2	1.8	6.7	23.6	33.3	20.0	6.7	3.6	1.2	.6	100.0	4.8	95.2

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	1.7	.0	.0	.0	.0	1.7
1-2	2.2	.0	.0	.0	.0	.0	2.2
3-4	.0	.0	1.7	.0	.0	.0	1.7
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	2.2	1.7	1.7	.0	.0	.0	5.6

NE

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	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.6	.0	.0	.0	.6
5-6	.0	.0	2.2	.0	.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	.0	1.1	2.8	.0	.0	.0	3.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.9	.0	.0	.0	.0	3.9
1-2	.0	2.2	.0	.0	.0	.0	2.2
3-4	.0	.0	4.4	.0	.0	.0	4.4
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	6.1	4.4	.0	.0	.0	10.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	4.4	.0	.0	.0	.0	.0	4.4
1-2	.0	2.8	2.2	.0	.0	.0	5.0
3-4	.0	.0	2.2	2.2	.0	.0	4.4
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	4.4	2.8	4.4	2.2	.0	.0	13.9

PERIOD: (OVER-ALL) 1963-1970

APRIL

AREA 0007 ANTICOSTI ISLAND
49.3N 63.5W

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	1.7	2.2	.0	.0	.0	3.9
3-4	.0	.0	1.7	.0	.0	.0	1.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
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	.0	1.7	6.1	.0	.0	.0	7.8

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	2.2	5.0	.0	.0	.0	7.2
3-4	.0	.0	2.8	.0	.0	.0	2.8
5-6	.0	.0	2.2	.0	.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	.0	2.2	10.0	.0	.0	.0	12.2

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	4.4	3.9	.0	.0	.0	8.3
3-4	.0	1.7	2.2	.0	.0	.0	3.9
5-6	.0	.0	.0	1.7	.0	.0	1.7
7	.0	.0	.0	.0	1.7	.0	1.7
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	6.1	6.1	1.7	1.7	.0	15.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	2.2	.0	.0	.0	.0	2.2	
1-2	.0	2.2	4.4	.0	.0	.0	6.7	
3-4	.0	.6	13.3	.0	.0	.0	13.9	
5-6	.0	.0	.0	.6	.0	.0	.6	
7	.0	.0	2.2	.0	.6	.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	.0	5.0	20.0	.6	.6	.0	26.1	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	8.9	8.9	.0	.0	.0	.0	17.8	
1-2	2.2	15.6	17.8	.0	.0	.0	35.6	
3-4	.0	2.2	28.9	2.2	.0	.0	33.3	
5-6	.0	.0	4.4	2.2	.0	.0	6.7	
7	.0	.0	2.2	.0	2.2	.0	4.4	
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	11.1	26.7	55.6	4.4	2.2	.0	100.0	45

PERIOD: (OVER-ALL) 1950-1970

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	4.2	26.8	25.4	5.6	2.8	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	3
6-7	.0	2.8	1.4	2.8	1.4	.0	2.8	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	6
8-9	.0	2.8	.0	2.8	.0	.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	8.5	2.8	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	1
TOTAL	9	25	22	8	3	1	2	1	0	0	0	0	0	0	0	0	0	0	0	71	3
PCT	12.7	35.2	31.0	11.3	4.2	1.4	2.8	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1929-1970
(OVER-ALL) 1864-1970

AREA 0007 ANTICOSTI ISLAND
49.2N 63.8W

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	3.7	1.5	2.2	.0	.0	.0	.0	7.4	8.1	.0	2.9	.0	.0	.0	81.6
NE	5.6	2.2	1.1	4.4	4.4	.0	.0	17.8	5.6	.0	2.2	.0	4.4	.0	70.0
E	10.8	2.2	2.2	.0	.0	.0	.0	15.1	4.3	.0	3.8	2.2	.0	.0	74.6
SE	6.3	1.5	3.0	.0	1.5	.0	.0	12.2	1.9	.0	18.9	.0	.0	.0	67.0
S	4.8	.0	.0	.0	.0	.0	.0	4.8	2.1	.0	12.4	.0	2.1	.0	78.6
SW	5.3	.0	.0	5.3	.0	.0	.0	10.7	.0	.0	6.7	.0	6.7	.0	76.0
W	4.6	.0	1.5	.0	.0	.0	.0	6.1	3.0	.0	1.1	.0	1.9	.0	87.8
NW	5.6	3.0	2.0	.0	.0	.0	.0	10.6	.0	.0	3.5	.0	.8	.0	85.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.5	.0	.0	.0	.0	.0	.0	4.5	.0	.0	4.5	.0	.0	.0	90.9
TOT PCT	5.8	1.5	1.7	.5	.5	.0	.0	10.0	2.4	.0	6.6	.2	1.2	.0	79.6
TOT OBS:	412														

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	2.3	2.3	.8	.8	.0	.0	.0	6.3	2.3	.0	7.8	.0	.8	.0	82.8
06&09	7.3	2.8	1.8	.9	.0	.0	.0	12.8	3.7	.0	5.5	.0	.9	.0	77.1
12&15	6.3	.0	2.1	.0	1.0	.0	.0	9.4	3.1	.0	9.4	.0	.0	.0	78.1
18&21	7.2	.0	3.1	.0	1.0	.0	.0	11.3	.0	.0	4.1	1.0	4.1	.0	79.4
TOT PCT	5.6	1.4	1.9	.5	.5	.0	.0	9.8	2.3	.0	6.7	.2	1.4	.0	79.5
TOT OBS:	430														

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	3.5	3.9	1.0	1.1	.1		10.5	14.6	6.7	21.3	9.1	9.7	10.1	24.1	3.0	25.9
NE	1.5	2.7	1.8	.2	.3	.0		6.4	9.8	6.1	8.8	9.9	11.1	2.3	12.0	3.6	1.9
E	1.0	3.6	4.3	1.5	.0	.0		10.3	12.6	9.5	10.6	11.4	11.1	8.6	11.1	14.1	1.9
SE	.8	8.1	5.7	1.4	.0	.0		15.9	11.3	23.3	19.4	9.7	12.5	11.5	12.0	14.1	25.9
S	.7	3.8	4.3	.6	.0	.0		9.4	11.4	11.1	3.8	9.7	13.9	6.9	10.2	10.9	5.6
SW	.2	2.6	1.3	.5	.0	.0		4.5	10.8	2.7	5.0	4.0	2.8	4.3	3.7	8.2	5.6
W	1.2	5.3	4.9	2.9	.5	.2		14.9	14.8	13.2	16.9	17.3	6.9	19.8	5.6	16.8	9.3
NW	1.1	7.5	8.8	3.4	1.8	.1		22.5	15.7	18.9	11.9	24.4	23.6	30.7	17.6	24.0	20.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.8							9.8	.0	8.4	2.5	4.5	8.3	5.7	3.7	5.3	3.7
TOT OBS	65	185	174	56	18	2	500		12.5	119	40	88	36	87	27	76	27
TOT PCT	13.0	37.0	34.8	11.2	3.6	.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	2.4	4.8	2.0	1.3	.1		10.5	14.6	10.4	9.3	13.4	9.0	
NE	2.6	3.0	.5	.3	.0		6.4	9.8	6.8	10.3	4.6	3.2	
E	2.4	4.7	3.3	.0	.0		10.3	12.6	9.7	11.3	9.2	10.9	
SE	4.4	8.0	3.3	.2	.0		15.9	11.3	22.3	10.5	11.6	17.2	
S	2.0	5.5	1.7	.2	.0		9.4	11.4	9.3	10.9	7.7	9.5	
SW	1.2	2.4	.9	.0	.0		4.5	10.8	2.3	3.6	4.2	7.5	
W	4.0	5.2	4.2	1.2	.4		14.9	14.8	14.2	14.3	10.4	14.8	
NW	3.6	10.9	4.9	2.2	1.0		22.5	15.7	17.1	24.2	27.6	23.1	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	5.8						5.8	.0	6.9	5.6	5.3	4.9	
TOT OBS	141	222	103	27	7	500		12.5	159	124	114	103	
TOT PCT	28.2	44.4	20.6	5.4	1.4		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	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.9	7.5	37.1	33.3	12.6	2.5	.0	11.8	100.0	159
06&09	5.6	6.5	37.1	38.7	8.9	3.2	.0	12.0	100.0	124
12&15	5.3	7.0	36.8	36.8	8.8	4.4	.9	12.9	100.0	114
18&21	4.9	7.8	36.9	30.1	14.6	4.9	1.0	13.9	100.0	103
TOT	29	36	185	174	56	18	2	12.5		500
PCT	5.8	7.2	37.0	34.8	11.2	3.6	.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	2.8	.4	.6	2.2		3.9
NE	1.0	.0	.5	3.3		6.3
E	.4	.5	1.3	6.9		7.2
SE	3.1	1.4	3.3	9.0		6.0
S	2.6	.0	2.5	3.9		5.4
SW	2.3	.5	.5	3.5		4.9
W	4.9	1.7	5.4	5.0		4.9
NW	6.0	5.1	6.5	5.9		4.6
VAR	.0	.0	.0	.0		.0
CALM	3.3	2.4	1.4	.0		2.7
TOT OBS	55	25	46	83	209	5.1
TOT PCT	26.3	12.0	22.0	39.7	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	1.2	.0	.6	.0	.0	.0	.0	3.7	
NE	.5	.0	.1	1.1	.5	.7	.0	.5	.0	.0	1.4	
E	.5	.0	1.0	1.6	1.2	1.0	.8	.5	.0	.5	2.2	
SE	1.9	.5	.5	1.2	3.5	1.0	.1	.0	.0	1.9	6.3	
S	.4	.0	.0	1.2	1.1	.4	.5	.5	.0	.0	5.1	
SW	.1	.0	1.0	1.1	.5	.1	.1	1.0	.0	.0	2.9	
W	.5	.0	.5	1.4	2.5	.5	.6	1.0	.4	.8	8.9	
NW	.5	.0	1.0	1.3	1.8	2.5	1.2	.5	.1	.6	14.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	6.7	
TOT OBS	9	1	9	21	23	14	7	8	1	9	107	209
TOT PCT	4.3	.5	4.3	10.0	11.0	6.7	3.3	3.8	.5	4.3	51.2	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	2.8	4.7	5.2	5.2	5.2	5.2	5.2	5.2
= OR >5000	4.2	8.5	8.9	8.9	8.9	8.9	8.9	8.9
= OR >3500	6.6	11.3	12.2	12.2	12.2	12.2	12.2	12.2
= OR >2000	11.3	17.8	18.8	18.8	18.8	18.8	18.8	18.8
= OR >1000	15.5	25.8	29.6	29.6	29.6	29.6	29.6	29.6
= OR >600	18.3	32.9	39.4	39.4	39.4	39.4	39.4	39.4
= OR >300	19.7	36.2	42.7	43.2	43.7	43.7	43.7	43.7
= OR >150	19.7	36.2	43.2	43.7	44.1	44.1	44.1	44.1
= OR > 0	19.7	36.6	45.1	46.9	47.4	47.9	48.4	48.4
TOTAL	42	78	96	100	101	102	103	103

TOTAL NUMBER OF OBS: 213 PCT FREQ NH <5/8: 51.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
21.0	11.9	7.5	7.5	4.8	2.8	7.9	6.3	27.4	2.8	252

MAY

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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	.2	.0	.0	.0	.0	.0	.0	.2	
<1/2	NO PCP	.0	.0	.2	2.2	.7	.0	.0	.2	.0	.2	3.6	
	TOT %	.0	.0	.2	2.5	.7	.0	.0	.2	.0	.2	3.9	
	PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	NO PCP	.2	.1	.0	.2	.0	.0	.0	.1	.0	.0	.7	
	TOT %	.2	.1	.2	.2	.0	.0	.0	.1	.0	.0	1.0	
	PCP	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.5	
1<2	NO PCP	.0	.0	.0	.0	.0	.2	.0	.5	.0	.0	.7	
	TOT %	.0	.2	.0	.0	.0	.2	.2	.5	.0	.0	1.2	
	PCP	.1	.4	.5	.3	.2	.0	.2	.2	.0	.0	1.9	
2<5	NO PCP	.0	.3	1.3	1.0	.4	.9	.6	.5	.0	.0	4.4	
	TOT %	.1	.7	1.8	1.3	.5	.9	.8	.8	.0	.0	6.3	
	PCP	.9	.4	.7	1.0	.2	.2	.5	2.1	.0	.2	5.8	
5<10	NO PCP	2.7	.8	2.1	4.4	2.5	.6	2.8	5.2	.0	1.0	22.0	
	TOT %	3.1	1.2	2.8	5.3	2.7	.8	3.3	7.3	.0	1.2	27.8	
	PCP	.0	.0	.2	.5	.0	.2	.2	.2	.0	.0	1.5	
10+	NO PCP	4.7	3.2	5.9	6.5	4.8	2.9	11.6	14.8	.0	3.9	58.4	
	TOT %	4.7	3.2	6.1	7.0	4.8	3.1	11.8	15.1	.0	3.9	59.8	
	TOT OBS												413
	TOT PCT	8.2	5.4	11.2	16.3	8.8	4.5	16.2	24.0	.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
	0-3	.0	.0	.0	.2	.0	.0	.0	.2	.0	.2	.7	
<1/2	4-10	.0	.0	.2	1.3	.5	.0	.0	.0	.0		2.0	
	11-21	.0	.0	.0	.6	.6	.0	.0	.0	.0		1.1	
	22+	.0	.0	.0	.4	.0	.0	.0	.0	.0		.4	
	TOT %	.0	.0	.2	2.5	1.1	.0	.0	.2	.0	.2	4.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.2	.1	.2	.0	.0	.0	.0	.1	.0		.7	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.1	.2	.2	.0	.0	.0	.1	.0	.0	.9	
	0-3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
1<2	4-10	.0	.2	.1	.3	.0	.2	.0	.2	.0		1.1	
	11-21	.0	.0	.0	.2	.0	.0	.0	.2	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.1	.6	.0	.2	.2	.4	.0	.0	1.8	
	0-3	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.2	
2<5	4-10	.0	.3	.6	.6	.4	.2	.4	.3	.0		2.7	
	11-21	.1	.1	.4	.3	.2	.1	.2	.2	.0		1.6	
	22+	.0	.2	.6	.6	.2	.0	.2	.2	.0		2.0	
	TOT %	.1	.6	1.7	1.5	.7	.3	.8	.7	.0	.0	6.5	
	0-3	.6	.3	.7	.3	.6	.2	.4	.0	.0	1.6	4.7	
5<10	4-10	1.1	.5	.6	2.0	1.0	.3	.5	2.4	.0		8.3	
	11-21	1.2	.3	1.2	2.2	.9	.3	2.0	3.3	.0		11.4	
	22+	.1	.0	.2	.4	.2	.0	.3	1.6	.0		2.9	
	TOT %	3.0	1.1	2.6	4.9	2.7	.8	3.2	7.3	.0	1.6	27.2	
	0-3	.4	1.3	.2	.2	.0	.0	.4	.7	.0	4.0	7.4	
10+	4-10	2.0	1.1	2.0	4.1	2.0	1.8	4.6	4.1	.0		21.7	
	11-21	1.8	1.2	2.7	2.6	3.0	.7	3.3	5.9	.0		21.2	
	22+	.4	.0	.8	.1	.2	.5	3.3	3.8	.0		9.2	
	TOT %	4.6	3.6	5.7	7.0	5.2	3.0	11.7	14.5	.0	4.0	59.4	
	TOT OBS												448
	TOT PCT	7.9	5.7	10.7	16.7	9.8	4.3	15.9	23.2	.0	5.8	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	2.7	1.4	2.7	8.1	10.8	5.4	5.4	2.7	.0	4.1	43.2	56.8	74
06&09	3.7	.0	1.9	11.1	13.0	5.6	1.9	1.9	.0	1.9	40.7	59.3	54
12&15	8.9	.0	6.7	8.9	8.9	2.2	.0	4.4	2.2	4.4	46.7	53.3	45
18&21	1.6	.0	4.8	7.9	6.3	9.5	3.2	4.8	.0	6.3	44.4	55.6	63
TOT	9	1	9	21	23	14	7	8	1	10	103	133	236
PCT	3.8	.4	3.8	8.9	9.7	5.9	3.0	3.4	.4	4.2	43.6	56.4	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	5.8	.0	2.2	3.6	28.8	59.7	139
06&09	3.4	.8	2.5	5.9	27.7	59.7	119
12&15	3.7	1.9	2.8	6.5	30.8	54.2	107
18&21	3.0	2.0	1.0	9.9	21.8	62.4	101
TOT	19	5	10	29	128	275	466
PCT	4.1	1.1	2.1	6.2	27.5	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	4.7	9.4	21.9	29.7	48.4	64
06&09	4.3	6.4	21.3	25.5	53.2	47
12&15	9.5	16.7	26.2	23.8	50.0	42
18&21	1.7	6.7	23.3	23.3	53.3	60
TOT	10	20	49	55	109	213
PCT	4.7	9.4	23.0	25.8	51.2	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
55/59	.0	.0	.0	.4	1.3	.8	.0	.0	6	2.5
50/54	.0	.0	.4	.0	.4	2.5	2.1	.4	14	5.9
45/49	.0	.0	.0	.4	2.1	4.7	8.9	1.7	42	17.8
40/44	.0	.0	.4	1.7	3.8	8.5	12.3	13.1	94	39.8
35/39	.0	.0	.0	.8	.8	3.4	8.9	15.7	70	29.7
30/34	.0	.0	.0	.0	.4	.8	.4	2.5	10	4.2
TOTAL	0	0	2	8	21	49	77	79	236	100.0
PCT	.0	.0	.8	3.4	8.9	20.8	32.6	33.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.6	1.1	.0	.3	.5	.0	.0	.0
.0	.0	.3	.5	1.6	.6	1.6	.0	.0	1.3
.5	.6	1.1	4.6	1.0	1.2	3.6	3.6	.0	1.7
3.3	1.6	4.7	6.4	4.8	1.4	6.6	9.1	.0	2.1
3.4	2.1	4.6	5.9	1.4	1.6	2.8	6.7	.0	1.3
.3	.8	.0	.1	.6	.1	.7	1.5	.0	.0
7.5	5.2	11.2	18.5	9.3	5.2	15.8	20.9	.0	6.4

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	70	69	52	41	35	30	28	42.3	163
06&09	73	67	50	41	34	31	25	41.1	124
12&15	67	64	57	41	35	32	32	43.1	119
18&21	65	55	54	43	36	32	32	43.6	108
TOT	73	67	54	41	34	32	25	42.4	514

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	6.5	14.3	39.0	37.7	85	77
06&09	.0	5.1	6.8	18.6	33.9	35.6	84	59
12&15	.0	3.5	14.0	26.3	26.3	29.8	81	57
18&21	.0	5.4	10.7	26.8	30.4	26.8	81	56
TOT	0	10	23	52	82	82	83	249

MAY

PERIOD: (PRIMARY) 1929-1970
(OVER-ALL) 1864-1970

AREA 0007 ANTICOSTI ISLAND
49.2N 63.8W

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	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.3	.3	.0	2	.0	.8
14/16	.0	.0	.0	.0	.0	.0	.5	.8	.3	6	.0	1.6
11/13	.0	.0	.0	.0	.3	1.1	.8	.5	.3	11	.0	3.0
9/10	.0	.0	.0	.0	.0	1.6	1.1	.8	.0	13	.3	3.3
7/8	.0	.0	.0	.3	1.9	2.9	.8	.5	.0	22	1.1	4.9
6	.0	.0	.0	.0	1.6	.5	.5	.0	.0	10	.0	2.7
5	.0	.0	.0	1.4	5.5	4.4	1.9	.0	.0	48	.5	12.6
4	.0	.0	.5	1.9	4.4	2.2	1.6	.0	.0	39	1.1	9.6
3	.0	.0	.3	3.0	5.8	1.6	.3	.3	.0	34	.8	8.5
2	.0	.0	1.9	4.1	3.8	1.6	.3	.0	.0	43	.8	11.0
1	.0	.0	2.5	4.4	2.5	1.4	.0	.0	.0	39	.8	9.9
0	.0	.0	2.2	4.4	4.1	.0	.0	.0	.0	39	.5	10.2
-1	.0	.3	.5	2.7	.5	.3	.0	.0	.0	16	.3	4.1
-2	.0	.5	1.6	1.9	.3	.5	.0	.0	.0	17	.5	4.1
-3	.3	.5	1.1	1.1	.0	.3	.0	.0	.0	12	.5	2.7
-4	.0	.0	.8	.5	.0	.5	.0	.0	.0	7	.0	1.9
-5	.3	.0	.3	.3	.0	.0	.0	.0	.0	3	.0	.8
-7/-8	.0	.0	.5	.3	.0	.0	.0	.0	.0	3	.0	.8
TOTAL	2	5	45	96	105	67	30	12	2	384	27	357
PCT	.5	1.4	12.4	26.4	28.8	18.4	8.2	3.3	.6	100.0	7.4	92.6

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	.0	2.8	1.0	.0	.0	.0	3.8
1-2	.0	1.8	.0	.0	.0	.0	1.8
3-4	.0	1.5	1.0	.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	6.0	2.0	.0	.0	.0	8.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	2.3	.0	.0	.0	.0	3.3
1-2	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	.5	.0	.0	.0	.0	.5
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	1.0	4.0	.0	.0	.0	.0	5.0

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	2.0	1.0	.0	.0	.0	3.0
3-4	.0	.8	2.0	.0	.0	.0	2.8
5-6	.0	.8	1.8	.0	.0	.0	2.5
7	.0	.0	.0	.0	.0	.0	.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
TOT PCT	.0	4.5	4.8	1.0	.0	.0	10.3

SE

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	7.3	4.0	.0	.0	.0	11.3
3-4	.0	1.3	1.0	1.0	.0	.0	3.3
5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.0	1.0	.0	.0	1.0
8-9	.0	.0	1.0	.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
TOT PCT	.0	14.8	7.3	2.0	.0	.0	24.0

PERIOD: (OVER-ALL) 1963-1970

AREA 0007 ANTICOSTI ISLAND
49.2N 63.8W

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	2.5	.0	.0	.0	.0	2.5	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.8	1.0	.0	.0	.0	1.8	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.0	1.0	.0	.0	.0	1.0	.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	4.3	2.0	.0	.0	.0	6.3	.0	1.5	.3	.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	.8	1.8	.0	.0	.0	.0	2.5	.3	1.0	.0	.0	.0	.0	1.3	
1-2	.0	4.3	.0	.0	.0	.0	4.3	2.0	4.0	2.0	.0	.0	.0	8.0	
3-4	1.0	.0	5.0	1.0	.0	.0	7.0	.0	1.0	2.8	.0	.0	.0	3.8	
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	2.5	2.0	.0	.0	4.5	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	1.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0	
10-11	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	1.3	.0	1.3	
12	.0	.0	.0	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	1.0	
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	6.0	6.5	1.0	.8	1.0	17.0	2.3	6.0	7.3	3.0	3.3	.0	21.8	94.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.7	17.5	1.0	.0	.0	.0	28.2	
1-2	1.9	22.3	7.8	.0	.0	.0	32.0	
3-4	1.0	5.8	11.7	1.9	.0	.0	20.4	
5-6	.0	1.0	7.8	1.9	.0	.0	10.7	
7	.0	.0	.0	1.0	1.0	.0	1.9	
8-9	.0	.0	1.0	1.9	.0	.0	2.9	
10-11	.0	.0	.0	.0	1.9	.0	1.9	
12	.0	.0	.0	.0	.0	1.0	1.0	
13-16	.0	.0	.0	.0	1.0	.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	
								103
TOT PCT	12.6	46.6	29.1	6.8	3.9	1.0	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	7.9	18.7	16.5	7.2	2.2	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	3
6-7	.0	.0	5.8	5.0	9.6	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	5
8-9	.0	.0	.0	.0	1.4	1.4	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	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	15.8	7.9	.7	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	1
TOTAL	33	37	32	19	10	3	3	1	1	0	0	0	0	0	0	0	0	0	0	139	3
PCT	23.7	26.6	23.0	13.7	7.2	2.2	2.2	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1929-1971
(OVER-ALL) 1880-1971

AREA 0007 ANTICOSTI ISLAND
49.4N 63.0W

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 WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	6.5	1.6	.0	.0	.0	.0	.0	8.2	.0	.0	2.2	.0	8.7		.0	81.0
NE	15.9	4.9	2.4	.0	.0	.0	.0	23.2	.0	.0	12.2	3.0	2.4		.0	59.1
E	15.1	1.4	10.4	.0	.0	.0	.0	26.3	5.4	.0	8.6	1.1	.0		.0	58.6
SE	14.3	1.2	2.1	.0	.0	.0	.0	15.8	1.5	.0	15.2	1.2	4.2		.0	62.2
S	9.7	3.9	2.3	.0	.0	.0	.0	15.9	.0	.0	15.6	.0	.6		.0	67.9
SW	6.6	.0	.3	.0	.0	.0	.0	6.9	1.4	.0	12.4	.0	2.4		.0	76.9
W	4.2	1.7	.0	.0	.0	.0	.0	5.9	.8	.0	4.4	.8	5.9		.0	82.1
NW	1.7	2.2	1.0	.0	.0	.0	.0	4.9	.0	.0	6.8	.0	6.1		.0	82.2
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	18.2	4.5	9.1		.0	68.2
TOT PCT	8.1	1.9	2.1	.0	.0	.0	.0	11.7	1.1	.0	9.8	.8	4.1		.0	72.5
TOT OBS:	633															

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 WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	7.6	2.2	1.1	.0	.0	.0	.0	10.8	1.1	.0	10.3	1.6	3.2		.0	73.0
06&09	7.8	1.9	1.9	.0	.0	.0	.0	11.7	.6	.0	8.4	.0	1.3		.0	77.9
12&15	7.8	1.8	3.6	.0	.0	.0	.0	12.6	1.8	.0	10.8	1.2	6.0		.0	67.7
18&21	7.1	1.8	1.8	.0	.0	.0	.0	10.0	.6	.0	8.8	.6	5.3		.0	74.7
TOT PCT	7.5	1.9	2.1	.0	.0	.0	.0	11.2	1.0	.0	9.6	.9	4.0		.0	73.2
TOT OBS:	676															

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	2.4	4.2	.4	.0	.0		7.4	11.8	5.4	6.4	10.8	8.5	8.0	4.7	8.0	3.8
NE	.3	3.0	2.3	1.0	.0	.0		6.6	12.5	2.9	8.5	5.0	12.8	9.8	9.3	6.3	1.9
E	1.2	5.4	4.0	.9	.0	.0		11.5	10.6	10.5	13.8	13.7	8.5	13.9	5.8	9.3	16.0
SE	1.4	6.2	4.3	1.2	.0	.0		13.1	10.8	15.0	16.0	9.4	11.7	13.0	18.6	11.7	14.1
S	.6	5.2	5.5	.7	.0	.0		12.0	12.0	12.2	16.0	14.4	13.8	12.4	3.5	11.5	7.7
SW	1.5	4.9	4.2	.9	*	.0		11.5	11.2	11.0	20.2	9.4	11.7	11.5	15.1	10.9	6.4
W	2.3	6.9	7.3	2.2	.3	.0		18.8	12.5	24.5	7.4	13.7	16.0	13.0	23.3	23.7	26.9
NW	1.0	5.5	7.1	2.1	.0	.0		15.7	12.7	14.5	9.6	17.9	10.6	15.6	19.8	15.7	23.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0	4.1	2.1	5.7	6.4	3.0	.0	3.0	.0
TOT OBS	84	276	272	66	2	0	700		11.4	148	47	106	47	135	43	135	39
TOT PCT	12.0	39.4	38.9	9.4	.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	1.8	4.3	1.3	.0	.0		7.4	11.8	5.6	10.1	7.2	7.0
NE	1.8	3.1	1.2	.4	.0		6.6	12.5	4.2	7.4	9.7	5.3
E	3.6	5.9	2.0	.0	.0		11.5	10.6	11.3	12.1	11.9	10.8
SE	4.1	6.8	2.1	.1	.0		13.1	10.8	15.3	10.1	14.3	12.2
S	2.1	7.2	2.4	.3	.0		12.0	12.0	13.1	14.2	10.3	10.6
SW	3.3	5.6	2.4	.1	*		11.5	11.2	13.2	10.1	12.4	9.9
W	5.0	8.7	4.1	1.0	.1		18.8	12.5	20.4	14.4	15.4	24.4
NW	3.5	7.9	3.6	.6	.0		15.7	12.7	13.3	15.7	16.6	17.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.4						3.4	.0	3.6	5.9	2.2	2.3
TOT OBS	200	347	134	18	1	700		11.4	195	193	178	174
TOT PCT	28.6	49.6	19.1	2.6	.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	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.6	9.2	44.6	33.8	7.7	1.0	.0	10.9	100.0	195
06&09	5.9	8.5	36.6	43.1	5.9	.0	.0	10.5	100.0	153
12&15	2.2	7.9	41.6	38.8	9.6	.0	.0	11.4	100.0	178
18&21	2.3	8.6	33.9	40.8	14.4	.0	.0	12.7	100.0	174
TOT	24	60	276	272	66	2	0	11.4		700
PCT	3.4	8.6	39.4	38.9	9.4	.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	2.1	1.3	2.5	2.1		4.9
NE	.5	.6	1.3	3.3		6.3
E	1.5	.5	2.9	6.8		6.5
SE	2.0	1.5	2.7	5.3		5.8
S	2.9	2.1	2.4	4.9		5.2
SW	5.5	1.3	1.5	3.4		4.0
W	8.1	4.7	4.5	1.9		3.6
NW	7.1	2.1	3.9	3.0		3.9
VAR	.0	.0	.0	.0		.0
CALM	.8	1.3	.8	1.1		4.5
TOT OBS	114	58	84	119	375	4.8
TOT PCT	30.4	15.5	22.4	31.7	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	.3	.5	.3	1.1	.0	.3	.2	.5	4.9	
NE	.5	.0	.3	.5	.9	.9	.3	.0	.0	.1	2.2	
E	.7	.0	.3	1.8	2.7	2.0	.3	.3	.2	.5	3.0	
SE	1.2	.0	.3	.5	1.8	.7	.0	.9	.1	.7	5.4	
S	1.4	.0	.0	.9	1.5	1.0	.3	.2	.3	.9	6.0	
SW	1.3	.0	.3	.1	.3	1.1	.3	.0	.0	.3	8.1	
W	.2	.0	.0	.2	.8	2.0	.0	.2	.0	.5	15.2	
NW	.8	.0	.0	.1	.8	.3	.5	.1	.9	.9	11.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.0	.3	.3	.5	.3	.0	.3	2.1	
TOT OBS	24	0	5	17	35	35	8	8	6	17	220	375
TOT PCT	6.4	.0	1.3	4.5	9.3	9.3	2.1	2.1	1.6	4.5	58.7	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	4.3	5.6	6.1	6.1	6.1	6.1	6.1	6.1
* OR >5000	6.3	7.8	8.4	8.4	8.4	8.4	8.4	8.4
* OR >3500	7.3	9.9	10.6	10.6	10.6	10.6	10.6	10.6
* OR >2000	13.9	18.2	19.5	19.5	19.5	19.5	19.5	19.5
* OR >1000	18.0	26.1	28.1	28.4	28.4	28.4	28.4	28.4
* OR >600	19.5	29.6	32.4	32.7	32.7	32.7	32.7	32.7
* OR >300	19.7	30.9	33.7	33.9	33.9	33.9	33.9	33.9
* OR >150	19.7	31.1	33.9	34.4	34.4	34.4	34.4	34.4
* OR > 0	19.7	31.4	34.2	34.9	35.4	36.7	40.3	40.5
TOTAL	78	124	135	138	140	145	159	160

TOTAL NUMBER OF OBS: 395 PCT FREQ NH <5/8: 59.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
17.9	15.3	10.5	8.9	5.7	5.5	9.3	6.7	20.3	5.7	618

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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	.3	.2	.0	.2	.0	.0	.0	.8	
	NO PCP	.1	.2	.6	.9	1.0	.9	.3	.6	.0	.3	5.1	
	TOT %	.1	.2	.8	1.3	1.2	.9	.5	.6	.0	.3	5.8	
1/2<1	PCP	.0	.2	.0	.2	.2	.1	.2	.1	.0	.0	.9	
	NO PCP	.0	.3	.1	.6	.4	.9	.4	.3	.0	.2	2.4	
	TOT %	.0	.5	.1	.7	.6	.9	.6	.4	.0	.2	3.3	
1<2	PCP	.0	.3	.3	.0	.2	.0	.0	.0	.0	.0	.8	
	NO PCP	.0	.3	.2	.0	.0	.0	.2	.0	.0	.2	.8	
	TOT %	.0	.6	.5	.0	.2	.0	.2	.0	.0	.2	1.6	
2<5	PCP	.0	.3	.5	.4	.4	*	.0	.2	.0	.0	1.7	
	NO PCP	.2	.1	.6	.5	.7	.9	.2	.2	.0	.3	3.0	
	TOT %	.2	.4	1.1	.9	1.1	.9	.2	.4	.0	.3	4.7	
5<10	PCP	.5	.4	1.4	1.1	.6	.6	.6	.5	.0	.0	5.7	
	NO PCP	1.3	1.8	2.2	4.0	2.6	2.9	4.0	3.8	.0	.0	22.6	
	TOT %	1.8	2.2	3.6	5.1	3.2	3.5	4.6	4.3	.0	.0	28.3	
10+	PCP	.1	.3	.5	.1	.4	.1	.1	*	.0	.0	1.7	
	NO PCP	5.1	2.3	4.5	5.2	5.5	6.4	12.7	10.5	.0	2.5	54.5	
	TOT %	5.2	2.6	5.0	5.3	5.9	6.5	12.8	10.5	.0	2.5	56.2	
	TOT OBS												633
	TOT PCT	7.3	6.5	11.0	13.3	12.2	11.9	18.8	16.2	.0	3.5	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	.2	.2	.0	.0	.3	.3	.0	.3	1.2	
	4-10	.1	.2	.5	.5	.4	.4	.2	.2	.0		2.5	
	11-21	.0	.0	.1	.5	.7	.3	.0	.0	.0		1.7	
	22+	.0	.0	.0	.0	.0	.2	.0	.2	.0		.3	
	TOT %	.1	.2	.7	1.2	1.2	.9	.5	.6	.0	.3	5.7	
1/2<1	0-3	.0	.0	.0	.2	.0	.1	.1	.0	.0	.2	.5	
	4-10	.0	.2	.1	.4	.5	.2	.0	.2	.0		1.4	
	11-21	.0	.0	.2	.0	.2	*	.5	.2	.0		1.1	
	22+	.0	.3	.0	.2	.0	.0	.0	.0	.0		.5	
	TOT %	.0	.5	.2	.7	.6	.3	.6	.4	.0	.2	3.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.3	
	4-10	.0	.2	.3	.0	.2	.0	.0	.0	.0		.6	
	11-21	.0	.3	.2	.0	.2	.2	.0	.0	.0		.8	
	22+	.0	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.6	.5	.0	.3	.2	.2	.0	.0	.2	1.9	
2<5	0-3	.0	.0	.0	.0	.1	.1	.0	.0	.0	.3	.5	
	4-10	.1	.0	.9	.4	.7	.2	.0	.2	.0		2.5	
	11-21	.1	.2	.2	.3	.2	.2	.2	.2	.0		1.4	
	22+	.0	.2	.0	.2	.2	.0	.0	.0	.0		.5	
	TOT %	.2	.4	1.1	.9	1.0	.4	.2	.3	.0	.3	4.8	
5<10	0-3	.0	.3	.6	.4	.2	.4	.5	.3	.0	.0	2.8	
	4-10	.9	1.1	1.4	2.5	1.4	1.2	1.4	1.7	.0		11.6	
	11-21	.9	.3	1.2	1.8	1.5	1.6	1.9	1.9	.0		11.2	
	22+	.0	.5	.5	.3	.0	.3	.7	.2	.0		2.3	
	TOT %	1.8	2.1	3.7	5.0	3.1	3.4	4.5	4.2	.0	.0	27.9	
10+	0-3	.5	*	.4	.5	.3	.9	1.0	.3	.0	2.5	6.5	
	4-10	1.3	1.2	2.1	2.3	2.3	3.1	5.2	3.4	.0		20.8	
	11-21	2.9	1.3	2.1	1.9	3.0	1.9	4.7	5.0	.0		22.9	
	22+	.4	.0	.5	.7	.3	.5	2.0	1.7	.0		6.0	
	TOT %	5.1	2.5	5.2	5.4	5.9	6.4	12.9	10.4	.0	2.5	98.3	
	TOT OBS												645
	TOT PCT	7.1	6.4	11.4	13.3	12.2	11.6	18.8	15.9	.0	3.4	100.0	

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PERIOD: (PRIMARY) 1929-1971
(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	7.4	1.1	.0	4.3	9.6	4.3	1.1	3.2	.0	2.1	33.0	67.0	94
06&09	4.1	1.0	2.0	4.1	10.2	10.2	3.1	.0	2.0	9.2	45.9	54.1	98
12&15	6.2	.0	3.1	4.1	10.3	9.3	1.0	1.0	2.1	3.1	40.2	59.8	97
18&21	6.0	.0	.0	4.3	6.0	10.3	3.4	4.3	1.7	3.4	39.7	60.3	116
TOT	24	2	5	17	36	35	9	9	6	18	161	244	405
PCT	5.9	.5	1.2	4.2	8.9	8.6	2.2	2.2	1.5	4.4	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	5.9	3.7	3.7	7.1	31.0	53.5	187
06&09	5.7	2.5	.6	5.0	25.8	60.4	159
12&15	6.4	4.7	7.3	5.8	32.6	48.3	172
18&21	5.2	2.9	.6	5.2	24.4	61.6	172
TOT	40	24	19	31	197	385	690
PCT	5.8	3.5	1.9	4.5	28.6	55.8	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	7.6	9.8	17.4	19.6	63.0	92
06&09	4.3	7.4	16.0	31.9	52.1	94
12&15	6.2	9.3	17.5	23.7	58.8	97
18&21	6.3	6.3	13.4	28.6	58.0	112
TOT	24	32	63	103	229	395
PCT	6.1	8.1	15.9	26.1	58.0	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	.2	.0	.0	.0	.0	.0	1	.2
65/69	.0	.0	.0	.0	.5	.7	.2	.0	6	1.5
60/64	.0	.0	.0	.5	1.7	1.9	1.0	.2	22	5.4
55/59	.0	.0	.0	.2	2.9	7.8	2.9	1.2	62	15.1
50/54	.0	.0	.2	1.5	3.4	6.3	13.1	11.2	147	35.8
45/49	.0	.0	.0	.5	1.9	5.8	10.5	12.7	129	31.4
40/44	.0	.0	.0	.0	.0	.7	3.6	6.3	44	10.7
TOTAL	0	0	2	11	43	96	129	130	411	100.0
PCT	.0	.0	.5	2.7	10.5	23.4	31.4	31.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
	.0	.0	.2	.0	.2	.3	.2	.5	.0	.0
	.7	.5	.4	.7	.2	.3	1.2	1.2	.0	.2
	.5	.1	1.2	2.2	2.3	2.3	3.1	2.9	.0	.5
	3.3	1.6	4.9	4.0	3.8	4.1	6.8	4.9	.0	2.4
	3.2	1.5	4.3	2.7	4.7	3.2	4.6	6.1	.0	1.2
	.7	2.8	.9	1.6	.9	.6	1.5	1.7	.0	.0
	8.3	6.4	11.9	11.1	12.0	10.8	17.6	17.3	.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	71	65	61	51	43	41	41	51.2	206
06&09	71	63	59	49	41	39	39	48.9	167
12&15	67	66	60	50	43	40	40	50.6	188
18&21	75	66	62	52	44	41	40	52.9	179
TOT	75	66	61	50	43	40	39	50.9	740

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	7.6	24.6	33.1	30.5	83	118
06&09	.0	1.0	7.3	14.6	34.4	42.7	86	96
12&15	.0	.9	7.3	25.7	34.9	31.2	85	109
18&21	.0	7.1	19.5	25.7	24.8	23.0	79	113
TOT	0	15	46	100	138	137	83	436

JUNE

PERIOD: (PRIMARY) 1925-1971
(OVER-ALL) 1880-1971

AREA 0007 ANTICOSTI ISLAND
49.4N 63.0W

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	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	2	.2	.2
17/19	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	2	.0	.3
14/16	.0	.0	.0	.0	.7	.3	.7	.3	.0	.0	12	.2	1.9
11/13	.0	.0	.0	.5	.8	1.0	1.5	.2	.0	.0	24	.0	4.0
9/10	.0	.0	.2	.8	1.5	2.2	.2	.0	.0	.0	29	.5	4.4
7/8	.0	.2	1.3	3.0	2.7	2.5	.5	.2	.0	.0	62	.7	9.8
6	.0	.0	1.2	2.0	1.3	.8	.2	.2	.0	.0	34	.8	4.9
5	.0	.0	2.5	3.0	2.5	.8	.2	.0	.0	.0	94	.8	8.3
4	.0	1.5	3.0	3.4	3.2	.8	.2	.0	.0	.0	72	.7	11.5
3	.9	1.2	3.9	4.4	1.5	.3	.0	.0	.0	.0	69	1.7	9.9
2	.0	1.3	4.4	3.4	2.0	.7	.0	.0	.0	.0	70	.7	11.1
1	.2	1.3	4.2	4.7	1.2	.2	.0	.0	.0	.0	70	.8	11.0
0	.9	1.2	3.4	2.7	.8	.3	.0	.0	.0	.0	51	.7	7.9
-1	.3	.5	.5	1.2	.3	.3	.0	.0	.0	.0	19	.7	2.5
-2	.0	.3	.3	1.3	.2	.0	.0	.0	.0	.0	13	.2	2.0
-3	.0	.5	.5	.3	.2	.0	.0	.0	.0	.0	9	.7	.8
-5	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	6		152		113		20		1			55	538
		48		183		62		7		1	593		
PCT	1.0	8.1	25.6	30.9	19.1	10.5	3.4	1.2	.2	.2	100.0	9.3	90.7

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	.0	.0	.0	.0	.0	.6
1-2	.0	1.0	.9	.0	.0	.0	1.9
3-4	.0	.4	4.5	.4	.0	.0	5.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.0	.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	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	6.4	.4	.0	.0	8.9

NE

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	.6	.0	.0	.0	.0	.6
3-4	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.0	1.8	.0	.0	.0	1.8
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	.0	2.9	2.0	.6	.0	.0	5.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	1.2	.0	.0	.0	2.8
1-2	.0	2.2	.4	.0	.0	.0	2.6
3-4	.0	.6	1.3	.0	.0	.0	1.9
5-6	.0	.4	1.2	.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	4.8	4.1	.0	.0	.0	8.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.9	.0	.0	.0	.0	1.5
1-2	.0	1.9	.1	.0	.0	.0	2.0
3-4	.0	.7	1.9	.0	.0	.0	2.6
5-6	.0	.3	1.3	.0	.0	.0	1.6
7	.0	.0	.1	.6	.0	.0	.7
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	3.8	3.5	1.2	.0	.0	9.1

PERIOD: (OVER-ALL) 1963-1971 JUNE AREA 0007 ANTICOSTI ISLAND 49.4N 63.0W

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	.4	3.2	.0	.0	.0	.0	3.7
1-2	.0	1.0	1.2	.0	.0	.0	2.2
3-4	.0	1.0	.9	.4	.0	.0	2.3
5-6	.0	1.0	2.8	.0	.0	.0	3.8
7	.0	.0	1.0	.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	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	5.8	.4	.0	.0	13.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.9	1.5	.0	.0	.0	.0	3.4
1-2	1.2	2.6	1.2	.0	.0	.0	5.0
3-4	.0	1.9	2.0	.7	.0	.0	4.7
5-6	.0	.0	.0	.1	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.6	.0	.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	.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	3.1	6.0	3.9	.9	.1	.0	14.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.8	1.5	.0	.0	.0	.0	3.2
1-2	.6	3.9	1.8	.0	.0	.0	6.3
3-4	.0	2.8	2.2	2.2	.0	.0	7.2
5-6	.0	.0	.4	1.0	.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	.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	2.3	8.2	4.8	3.2	.4	.0	19.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.9	.0	.0	.0	.0	1.9	
1-2	.0	3.7	2.6	.0	.0	.0	6.3	
3-4	.0	.7	3.2	.3	.0	.0	4.2	
5-6	.0	.0	2.5	.6	.0	.0	3.1	
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	6.3	8.5	.9	.0	.0	15.6	94.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.4	12.7	1.1	.0	.0	.0	28.2	
1-2	2.2	16.6	7.7	.0	.0	.0	26.5	
3-4	.0	7.7	15.5	3.9	.0	.0	27.1	
5-6	.0	1.7	9.4	1.7	.0	.0	12.7	
7	.0	.0	2.8	1.1	.0	.0	3.9	
8-9	.0	.0	.0	.6	.0	.0	.6	
10-11	.0	.0	.6	.0	.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	.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	
								181
TOT PCT	16.6	38.7	37.0	7.2	.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	6.8	10.5	17.7	6.0	3.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	3
6-7	.0	.0	6.4	4.9	1.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	4
8-9	.0	.8	.0	1.9	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	5
10-11	.0	.8	.0	.0	.4	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	9
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	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	17.7	3.4	4.2	1.9	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	1
TOTAL	65	62	75	40	18	2	1	1	1	0	0	0	0	0	0	0	0	0	0	269	3
PCT	24.5	23.4	28.3	15.1	6.8	.8	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1923-1970
(OVER-ALL) 1874-1970

AREA 0007 ANTICOSTI ISLAND
49.5N 62.6W

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	6.5	3.9	.0	.0	.0	.0	.0	10.5	.0	.0	11.8	2.0	3.9		.0	71.9
NE	17.4	2.1	3.4	.0	.0	.0	.0	23.0	1.7	.9	21.7	.0	1.7		.0	51.9
E	12.1	.5	6.6	.0	.0	.0	.0	19.2	.7	.3	19.9	1.7	4.5		.0	54.1
SE	9.4	1.0	3.2	.0	.0	.0	.0	13.2	2.1	.0	22.6	1.3	4.5		.0	56.3
S	6.5	.6	3.6	.0	.0	.0	.0	9.8	1.9	2.1	16.3	1.2	3.9		.0	65.3
SW	3.2	2.1	.0	.0	.0	.0	.0	5.3	.9	.2	14.0	.2	6.8		.0	72.6
W	2.3	1.4	.0	.0	.0	.0	.0	3.7	.5	.5	7.8	1.4	5.9		.0	80.2
NW	3.1	.4	.9	.0	.0	.0	.0	4.4	2.7	.9	9.7	1.3	2.9		.0	79.0
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	21.4	.0	7.1		.0	71.4
TOT PCT	6.6	1.1	2.3	.0	.0	.0	.0	9.8	1.3	.7	15.4	1.1	4.7		.0	67.3
TOT OBS:	1051															

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	8.3	1.2	3.0	.0	.0	.0	.0	12.5	1.2	.6	14.0	.0	4.8		.0	67.6
06&09	7.8	2.1	2.5	.0	.0	.0	.0	11.9	1.2	2.1	12.3	2.1	2.1		.0	68.7
12&15	6.9	.9	2.5	.0	.0	.0	.0	10.4	.6	.3	22.4	.9	3.5		.0	62.1
18&21	7.5	.8	.8	.0	.0	.0	.0	8.6	2.0	.0	10.6	1.6	7.5		.0	69.8
TOT PCT	7.6	1.2	2.3	.0	.0	.0	.0	10.9	1.2	.7	15.2	1.0	4.4		.0	66.8
TOT OBS:	1151															

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	1.8	.9	.3	.0	.0		3.6	9.4	2.1	5.4	4.2	7.1	4.4	2.0	3.5	.8
NE	.7	1.9	1.9	.7	.0	.0		5.1	12.2	5.1	3.6	5.0	6.6	5.0	7.1	2.6	7.3
E	1.4	6.6	4.6	.2	.0	.0		12.7	9.7	12.5	7.2	16.1	6.6	14.6	12.2	17.3	9.6
SE	1.6	6.5	6.0	.6	.0	.0		14.8	10.6	17.4	17.6	11.6	18.1	10.8	15.3	13.7	17.2
S	1.5	8.4	6.5	1.4	.0	.0		17.8	11.3	18.5	16.0	19.4	18.6	19.2	18.6	13.5	17.7
SW	.8	6.7	5.1	.6	.0	.0		13.2	10.9	12.0	15.1	12.5	19.6	10.3	14.5	13.5	13.4
W	1.3	7.7	8.8	1.2	.1	.0		19.1	11.6	19.1	20.7	19.8	11.0	20.2	18.1	20.1	21.7
NW	.9	4.7	4.5	.5	.1	.0		10.7	11.2	10.4	11.7	8.5	11.2	12.9	8.9	10.0	10.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0							3.0	.0	3.0	2.7	2.8	1.0	2.6	3.1	3.9	2.0
TOT OBS	138	518	447	65	3	0	1171		10.6	236	111	144	98	233	98	152	99
TOT PCT	11.8	44.2	38.2	5.6	.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	1.6	1.6	.3	.1	.0		3.6	9.4	3.2	5.4	3.7	2.4
NE	1.3	2.1	1.1	.4	.0		5.1	12.2	4.6	5.7	5.7	4.5
E	4.3	6.2	1.9	.1	.0		12.7	9.7	10.8	12.3	13.9	14.2
SE	4.1	7.9	2.7	*	.0		14.8	10.6	17.4	14.3	12.2	15.0
S	4.6	9.4	3.3	.5	.0		17.8	11.3	17.7	19.1	19.0	15.1
SW	3.2	7.5	2.3	.2	.0		13.2	10.9	13.0	15.4	11.6	13.4
W	4.4	11.1	3.4	.2	.1		19.1	11.6	19.6	16.2	19.6	20.7
NW	2.7	6.0	1.7	.1	.1		10.7	11.2	10.8	9.6	11.7	10.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.0						3.0	.0	2.9	2.1	2.7	4.4
TOT OBS	348	607	195	19	2	1171		10.6	347	242	331	251
TOT PCT	29.7	51.8	16.7	1.6	.2		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1929-1970
(OVER-ALL) 1874-1970

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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	2.9	7.8	43.2	38.6	6.9	.6	.0	11.1	100.0	347
06&09	2.1	9.9	49.6	35.5	2.5	.4	.0	10.0	100.0	242
12&15	2.7	8.8	46.5	38.1	3.9	.0	.0	10.2	100.0	331
18&21	4.4	9.2	37.5	40.2	8.8	.0	.0	11.1	100.0	251
TOT	95	103	518	447	65	3	0	10.6		1171
PCT	8.0	8.8	44.2	38.2	5.6	.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	.8	.1	.9	1.3		5.5
NE	.5	.6	1.2	3.0		6.3
E	2.8	1.5	5.0	7.8		5.9
SE	1.6	.8	2.5	5.8		6.2
S	3.4	.8	4.7	6.1		5.5
SW	2.9	3.6	2.9	3.9		4.7
W	8.6	3.0	6.0	3.0		3.9
NW	3.7	1.6	3.5	2.4		4.4
VAR	.0	.0	.0	.0		.0
CALM	1.3	.9	.9	.6		3.7
TOT OBS	136	69	147	180	532	5.1
TOT PCT	25.6	13.0	27.6	33.8	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	.6	.2	.0	.0	.3	.5	.1	.0	.0	.1	1.3	
NE	.4	.0	.0	.9	1.3	.8	.0	.0	.0	.0	1.7	
E	2.0	.1	.4	1.4	3.0	1.5	.4	.1	.2	.4	7.7	
SE	1.0	*	.2	.5	2.3	1.2	.4	.3	.0	.2	4.6	
S	.7	.0	.7	.7	1.6	2.8	.9	.1	.3	.6	6.5	
SW	.4	.0	*	.3	1.9	.4	.1	.0	.2	.9	8.9	
W	1.0	.0	.2	.7	.7	.7	1.0	.1	.0	.6	15.6	
NW	.5	.0	.2	.2	.8	1.0	.7	*	.2	.6	7.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.0	.2	.2	.4	.0	.4	.3	2.4	
TOT OBS	36	2	9	25	65	48	21	4	7	18	297	532
TOT PCT	6.8	.4	1.7	4.7	12.2	9.0	3.9	.8	1.3	3.4	55.8	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	1.3	3.6	4.3	4.3	4.5	4.5	4.5	4.5
* OR >5000	1.6	4.1	4.8	5.0	5.2	5.2	5.2	5.2
* OR >3500	3.0	7.3	8.6	8.9	9.1	9.1	9.1	9.1
* OR >2000	5.9	14.3	17.2	17.9	18.1	18.1	18.1	18.1
* OR >1000	10.4	23.3	27.9	28.8	29.2	29.9	30.1	30.1
* OR >600	11.6	26.7	32.6	33.6	34.3	35.1	35.2	35.2
* OR >300	12.0	27.7	34.2	35.2	36.0	36.7	36.9	36.9
* OR >150	12.2	27.9	34.3	35.6	36.3	37.0	37.2	37.2
* OR > 0	12.2	27.9	34.9	36.3	37.0	38.8	43.1	44.2
TOTAL	66	156	195	203	207	217	241	247

TOTAL NUMBER OF OBS: 559 PCT FREQ NH <5/8: 55.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
16.0	15.8	10.3	7.3	5.0	6.8	6.0	4.8	21.8	6.2	601

JULY

PERIOD: (PRIMARY) 1923-1970
(OVER-ALL) 1874-1970

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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
	PCP	.0	*	*	.2	.1	.0	.1	.0	.0	.0	.5	
<1/2	NO PCP	.3	.5	1.4	1.3	1.7	.8	.9	.6	.0	.2	7.6	
	TOT %	.3	.5	1.5	1.5	1.8	.8	1.0	.6	.0	.2	8.1	
	PCP	.0	.3	.1	.3	.0	.0	.2	.0	.0	.0	1.0	
1/2<1	NO PCP	.1	.5	.6	1.0	.5	.5	.2	.4	.0	.0	3.9	
	TOT %	.1	.8	.8	1.3	.5	.5	.4	.4	.0	.0	4.9	
	PCP	.0	.1	.4	.1	.1	.0	.0	.0	.0	.0	.8	
1<2	NO PCP	.1	.0	.3	.6	.2	.2	.0	*	.0	.3	1.7	
	TOT %	.1	.1	.7	.8	.3	.2	.0	*	.0	.3	2.5	
	PCP	.0	.5	.9	.6	.4	.1	.0	.1	.0	.0	2.7	
2<5	NO PCP	.1	.1	1.0	.9	1.1	.8	.6	.3	.0	.2	5.0	
	TOT %	.1	.6	2.0	1.5	1.5	.9	.6	.4	.0	.2	7.7	
	PCP	.9	.4	1.1	.5	1.1	.2	.3	.3	.0	.0	4.2	
5<10	NO PCP	1.5	2.1	3.7	5.5	6.9	4.6	6.5	3.9	.0	1.3	36.1	
	TOT %	1.9	2.5	4.9	6.0	8.0	4.7	6.7	4.3	.0	1.3	40.2	
	PCP	*	.0	.0	.2	.0	.9	.1	*	.0	.0	.8	
10+	NO PCP	1.1	1.1	4.0	3.7	5.0	5.2	10.0	5.1	.0	.7	35.9	
	TOT %	1.2	1.1	4.0	3.9	5.0	5.9	10.1	5.1	.0	.7	36.6	
	TOT OBS												1091
	TOT PCT	3.6	5.6	13.8	14.9	17.2	12.6	18.8	10.8	.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
	0-3	.1	.2	.3	.4	.2	*	.2	.2	.0	.2	1.7	
<1/2	4-10	.1	.1	.8	.4	1.3	.5	.5	.3	.0		3.9	
	11-21	.1	.2	.3	.5	.5	.4	.3	.1	.0		2.5	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0		.2	
	TOT %	.3	.5	1.4	1.4	2.0	1.0	1.0	.5	.0	.2	8.3	
	0-3	.0	.0	.0	.2	.0	*	.1	.0	.0	.0	.3	
1/2<1	4-10	*	.3	.4	.7	.3	.3	.0	.3	.0		2.4	
	11-21	.1	.2	.3	.4	.2	.2	.3	*	.0		1.7	
	22+	.0	.3	.0	.0	.0	.0	.0	.0	.0		.3	
	TOT %	.1	.8	.7	1.3	.5	.5	.3	.4	.0	.0	4.7	
	0-3	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3	.5	
1<2	4-10	.1	*	.4	.4	*	.1	.0	*	.0		1.1	
	11-21	.0	.1	.2	.2	.1	.1	.0	.0	.0		.6	
	22+	.0	.0	.1	*	.1	.0	.0	.0	.0		.2	
	TOT %	.1	.1	.7	.7	.3	.2	.0	*	.0	.3	2.4	
	0-3	.0	.0	.1	.0	*	.2	.1	.1	.0	.2	.7	
2<5	4-10	.1	.2	.8	.9	.6	.2	.3	.1	.0		3.2	
	11-21	.0	.3	1.0	.5	.6	.5	.3	*	.0		3.3	
	22+	.0	*	*	*	.3	.1	.0	.1	.0		.5	
	TOT %	.1	.5	1.9	1.4	1.5	1.0	.8	.4	.0	.2	7.8	
	0-3	.3	.3	.5	.3	.2	.1	.2	.7	.0	1.6	4.2	
5<10	4-10	.8	.8	2.4	2.4	3.6	2.4	2.8	1.9	.0		17.2	
	11-21	.5	.9	1.7	3.1	3.3	1.7	3.5	1.6	.0		16.4	
	22+	.2	.4	.0	*	.8	.3	.5	.2	.0		2.4	
	TOT %	1.8	2.4	4.7	5.9	7.8	4.6	7.0	4.5	.0	1.6	40.1	
	0-3	.2	.2	.4	.5	1.0	.4	.7	.0	.0	.6	4.1	
10+	4-10	.7	.5	2.0	1.9	2.3	2.8	3.8	1.9	.0		15.8	
	11-21	.3	.3	1.4	1.2	1.6	2.1	4.8	2.8	.0		14.6	
	22+	.1	*	.0	.2	.3	.2	.9	.4	.0		2.2	
	TOT %	1.2	1.1	3.9	3.8	5.3	5.5	10.2	5.1	.0	.6	36.7	
	TOT OBS												1094
	TOT PCT	3.6	5.4	13.3	14.6	17.5	12.8	19.3	10.8	.0	2.8	100.0	

JULY

PERIOD: (PRIMARY) 1929-1970
(OVER-ALL) 1874-1970

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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	6.5	.6	.6	5.8	9.7	6.5	2.6	.6	1.3	2.6	37.0	63.0	154
06&09	8.1	.0	.8	5.6	12.9	8.9	4.8	2.4	.0	1.6	45.2	54.8	124
12&15	10.4	.6	1.9	6.5	12.3	11.7	3.9	.0	1.9	3.2	52.6	47.4	154
18&21	2.1	.0	2.8	2.1	11.9	8.4	4.2	.0	1.4	4.9	37.8	62.2	143
TOT	39	2	9	29	67	51	22	4	7	18	248	327	575
PCT	6.8	.3	1.6	5.0	11.7	8.9	3.8	.7	1.2	3.1	43.1	56.9	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	7.8	3.8	2.0	9.6	45.2	31.6	345
06&09	6.0	3.6	2.4	6.4	35.2	46.4	250
12&15	13.5	6.6	3.0	7.8	37.5	31.5	333
18&21	6.8	4.1	2.6	7.5	41.0	38.0	266
TOT	105	55	30	95	478	431	1194
PCT	8.8	4.6	2.5	8.0	40.0	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	6.8	11.0	30.8	15.1	54.1	146
06&09	8.3	10.7	22.3	25.6	52.1	121
12&15	10.5	16.4	29.6	27.6	42.8	152
18&21	2.1	7.1	20.0	25.0	55.0	140
TOT	39	64	145	130	284	559
PCT	7.0	11.4	25.9	23.3	50.8	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	.0	.0	.1	.0	.0	.0	1	.1
70/74	.0	.0	.0	.1	.1	1.0	.0	.1	10	1.5
65/69	.0	.0	.0	.3	1.0	1.3	.7	1.5	33	4.9
60/64	.0	.0	.3	.0	1.3	5.0	8.9	7.9	158	23.4
55/59	.0	.0	.0	.0	.7	4.5	16.6	16.6	259	38.4
50/54	.0	.0	.0	.0	.3	1.3	9.5	16.3	185	27.4
45/49	.0	.0	.0	.0	.0	.4	1.3	2.4	28	4.2
TOTAL	0	0	2	3	25	92	250	302	674	100.0
PCT	.0	.0	.3	.4	3.7	13.6	37.1	44.8		

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	.1	.0	.0	.0
.1	.1	.0	.0	.1	.6	.3	*	.0	.1
.1	.0	.2	.5	1.5	.7	.9	.6	.0	.3
.3	.3	2.6	3.7	4.0	3.5	4.9	1.9	.0	1.2
1.1	.9	5.8	7.8	8.0	4.7	7.3	2.3	.0	.4
1.0	2.0	5.0	3.0	3.8	2.7	5.4	3.7	.0	.9
.5	.4	1.4	.2	.3	*	.7	.6	.0	.0
3.2	4.0	15.9	15.2	17.7	12.3	19.4	9.3	.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	70	67	64	57	50	47	46	57.1	366
06&09	76	66	63	55	48	46	44	55.8	263
12&15	72	71	65	57	49	46	42	56.8	358
18&21	73	72	68	58	51	48	47	58.7	274
TOT	76	70	65	57	49	46	42	57.1	1261

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	1.4	12.1	47.0	39.1	88	215
06&09	.0	.0	.7	5.4	32.2	61.7	91	149
12&15	.0	1.0	3.7	16.2	29.3	49.7	88	191
18&21	.0	1.9	9.3	21.0	34.6	33.3	84	162
TOT	0	6	26	99	261	325	88	717

JULY

PERIOD: (PRIMARY) 1929-1970
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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	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
20/22	.0	.0	.0	.0	.1	.1	.1	.1	.0	4	.0	.4
17/19	.0	.0	.0	.0	.2	.1	.1	.0	.0	4	.1	.3
14/16	.0	.0	.0	.2	.2	.2	.0	.5	.0	11	.1	1.0
11/13	.0	.0	.1	.1	.3	.9	.6	.2	.0	22	.1	2.2
9/10	.0	.0	.1	.5	1.0	1.6	.6	.1	.2	40	.2	3.9
7/8	.0	.0	.6	2.3	3.0	2.8	.5	.1	.0	90	1.4	7.9
6	.0	.1	.4	2.5	2.0	1.8	.5	.1	.0	71	1.1	6.2
5	.0	.1	.6	2.5	2.1	2.2	.2	.2	.0	76	.9	6.9
4	.0	.0	.7	3.8	4.5	2.1	.5	.0	.0	112	2.1	9.5
3	.0	.2	1.0	3.4	4.6	1.4	.4	.0	.0	107	2.0	9.1
2	.0	.3	2.2	5.3	3.3	1.4	.5	.0	.0	126	1.6	11.5
1	.0	.5	2.0	5.6	2.7	1.1	.0	.0	.0	115	1.9	10.0
0	.0	.5	2.2	3.0	2.8	.2	.0	.0	.0	84	1.9	6.8
-1	.1	.2	1.3	1.6	.7	.2	.0	.0	.0	40	1.2	2.9
-2	.0	.5	1.2	1.4	.4	.0	.0	.0	.0	35	.8	2.8
-3	.0	.0	.5	.6	.3	.1	.0	.0	.0	15	.3	1.2
-4	.0	.1	.1	.2	.2	.1	.0	.0	.0	7	.1	.6
-5	.0	.1	.3	.0	.0	.0	.0	.0	.0	4	.1	.3
-6	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
-7/-8	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	26	131	319	274	150	41	13	2	966	154	812
PCT	.1	2.7	13.6	33.0	28.4	16.5	4.2	1.3	.2	100.0	15.9	84.1

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	1.0	.0	.0	.0	.0	1.0
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.4	.4	.6	.0	.0	1.4
5-6	.0	.4	.3	.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+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.5	.7	.6	.0	.0	3.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.8	.1	1.2	.0	.0	.0	2.1
3-4	.0	.1	.7	.2	.0	.0	1.0
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	.0	.0	.0	.0	.0
TOT PCT	.8	.8	2.3	.2	.0	.0	4.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	3.8	.0	.0	.0	.0	4.2
1-2	.7	3.8	3.4	.0	.0	.0	7.9
3-4	.0	.7	3.0	.0	.0	.0	3.7
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	1.1	8.3	7.4	.0	.0	.0	16.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.5	.0	.0	.0	.0	1.0
1-2	.1	3.6	1.4	.0	.0	.0	5.1
3-4	.0	1.2	1.0	.4	.0	.0	2.5
5-6	.0	.0	1.4	.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	.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	5.3	3.8	.5	.0	.0	10.2

PERIOD: (OVER-ALL) 1963-1970 — AREA 0007 ANTICOSTI ISLAND 49.5N 62.6W

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	2.8	.3	.0	.0	.0	4.1
1-2	.8	4.6	1.1	.0	.0	.0	6.5
3-4	.0	2.0	1.8	.3	.0	.0	4.0
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.6	.0	.0	.6
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	1.8	9.4	4.2	1.3	.0	.0	16.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	2.3	.1	.0	.0	.0	2.9
1-2	.0	2.1	1.7	.0	.0	.0	3.7
3-4	.0	2.5	3.1	.2	.0	.0	5.8
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.4	.0	.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	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	7.2	5.9	.3	.0	.0	13.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	4.2	.8	.0	.0	.0	6.1
1-2	.0	1.7	3.6	.0	.0	.0	5.3
3-4	.0	1.8	4.6	.3	.0	.0	6.7
5-6	.0	.0	.3	.3	.0	.0	.6
7	.0	.0	.0	.3	.0	.0	.3
8-9	.0	.0	.4	.0	.0	.0	.4
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	1.1	7.6	9.7	.9	.3	.0	19.6

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	.0	1.1	1.4	.0	.0	.0	2.5	
3-4	.0	1.3	.7	.0	.0	.0	2.0	
5-6	.0	.0	2.5	.1	.0	.0	2.5	
7	.0	.0	.0	.5	.0	.0	.5	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.4	.1	.0	.5	
12	.0	.0	.0	.0	.4	.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	3.2	4.5	1.0	.5	.0	9.2	94.1

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	15.5	1.1	.0	.0	.0	28.3	
1-2	2.3	18.1	13.2	.0	.0	.0	33.6	
3-4	.0	9.4	14.7	1.9	.0	.0	26.0	
5-6	.0	.4	6.0	.4	.0	.0	6.8	
7	.0	.0	1.5	.8	.0	.0	2.3	
8-9	.0	.4	.4	.0	.0	.0	.8	
10-11	.0	.0	.0	1.1	.4	.0	1.5	
12	.0	.0	.0	.4	.4	.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	14.0	43.8	37.0	4.5	.8	.0	100.0	265

PERIOD: (OVER-ALL) 1950-1970

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	10.5	29.4	18.3	2.8	1.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	226	2
6-7	.0	.3	4.7	3.3	1.4	.8	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	5
8-9	.0	.3	.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	4
10-11	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
12-13	.0	.0	.0	.3	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	10
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	15.0	4.4	1.9	.6	.3	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	1
TOTAL	92	124	92	28	12	4	5	3	1	0	0	0	0	0	0	0	0	0	0	361	2
PCT	25.5	34.3	25.5	7.8	3.3	1.1	1.4	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1874-1970

AREA 0007 ANTICOSTI ISLAND
49.5N 62.4W

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	7.2	5.6	8.2	.0	.0	.0	.0	21.0	3.1	2.1	3.1	.0	2.1		.0	68.7
NE	14.6	.5	4.5	.0	.0	.0	.0	19.7	3.5	.0	8.1	4.0	.0		.0	64.6
E	13.4	.0	5.4	.0	.0	.0	.0	18.1	3.7	.5	16.3	.0	2.0		.0	59.4
SE	12.2	1.1	5.3	.0	.0	.0	.0	18.3	1.1	1.6	13.8	1.1	2.7		.0	61.5
S	10.5	3.0	2.9	.0	.0	.0	.6	17.1	.0	.0	12.2	1.2	2.6		.0	66.9
SW	4.2	3.4	1.2	.0	.0	.0	.0	8.8	.6	.9	7.3	.7	1.8		.0	80.1
W	1.3	1.4	.4	.0	.0	.0	.0	3.2	2.2	.2	5.4	.3	1.7		.0	87.4
NW	2.5	1.6	3.5	.0	.0	.0	.0	7.6	.4	.0	4.7	.0	1.0		.0	86.3
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	3.3	10.0	.0	10.0		.0	76.7
TOT PCT	6.2	2.0	2.7	.0	.0	.0	.1	10.9	1.5	.6	8.6	.7	2.0		.0	75.9
TOT OBS:	1076															

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	1.7	3.1	.0	.0	.0	.0	10.3	1.0	1.4	8.3	.7	1.0		.0	77.6
06&09	7.8	2.6	3.0	.0	.0	.0	.0	13.4	1.7	.9	6.5	.9	2.2		.0	74.6
12&15	6.9	2.3	2.6	.0	.0	.0	.0	11.6	1.4	.0	12.1	.3	1.7		.0	72.8
18&21	4.3	.8	2.7	.0	.0	.0	.4	8.2	1.6	.0	7.1	.8	3.1		.0	79.2
TOT PCT	6.1	1.9	2.8	.0	.0	.0	.1	10.9	1.4	.5	8.8	.6	2.0		.0	75.9
TOT OBS:	1123															

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	2.6	1.7	.1	.0	.0		4.9	9.2	4.5	3.3	4.0	9.1	7.3	7.5	.3	3.2
NE	.3	2.1	2.1	.4	.2	.0		5.0	11.7	5.3	4.2	9.2	2.7	4.0	4.0	6.4	2.7
E	.9	4.3	3.0	.5	.0	.0		8.8	10.2	8.3	5.3	6.9	7.0	12.6	8.0	11.3	2.7
SE	.8	3.8	3.0	.5	.0	.0		8.1	10.5	9.2	11.1	7.4	9.9	6.2	7.0	8.4	8.1
S	.9	7.6	6.7	.9	.0	.0		15.5	11.2	14.8	13.1	13.1	19.1	16.9	17.0	12.9	18.8
SW	1.0	8.2	5.1	.7	*	.0		15.0	10.2	15.0	19.7	20.6	16.7	12.2	14.8	10.3	17.2
W	1.5	11.6	11.3	3.6	.3	.0		28.3	12.8	31.3	24.7	20.8	24.2	24.2	31.8	34.0	38.4
NW	1.4	5.5	4.0	.7	.1	.0		11.7	10.5	10.3	16.4	11.9	9.1	13.0	8.0	13.7	8.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8							2.8	.0	1.4	2.2	6.0	2.2	3.6	2.0	2.9	.0
TOT OBS	119	545	433	88	7	0	1192		10.9	219	90	149	93	275	100	173	93
TOT PCT	10.0	45.7	36.3	7.4	.6	.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	2.8	.3	.0	.0		4.9	9.2	4.1	6.0	7.3	1.3
NE	1.6	2.7	.5	.3	.0		5.0	11.7	4.9	6.7	4.0	5.1
E	3.0	4.4	1.3	.1	.0		8.8	10.2	7.4	6.9	11.4	8.3
SE	2.4	4.4	1.3	.0	.0		8.1	10.5	9.8	8.4	6.4	8.3
S	4.2	7.7	3.4	.2	.0		15.5	11.2	14.3	15.4	16.9	14.9
SW	5.2	7.8	1.6	.4	.0		15.0	10.2	16.3	19.1	12.9	12.7
W	6.4	13.1	7.7	1.1	.0		28.3	12.8	29.4	22.1	26.2	35.5
NW	4.1	5.4	1.9	.3	.0		11.7	10.5	12.1	10.8	11.7	12.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.8						2.8	.0	1.6	4.5	3.2	1.9
TOT OBS	374	575	214	29	0	1192		10.9	309	242	375	266
TOT PCT	31.4	48.2	18.0	2.4	.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	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.6	7.8	49.8	33.0	7.4	.3	.0	10.6	100.0	309
06&09	4.5	7.9	47.9	34.7	5.0	.0	.0	10.1	100.0	242
12&15	3.2	7.5	46.4	36.3	6.4	.3	.0	10.5	100.0	375
18&21	1.9	5.6	38.0	41.7	10.9	1.9	.0	12.6	100.0	266
TOT	33	86	545	433	88	7	0	10.9		1192
PCT	2.8	7.2	45.7	36.3	7.4	.6	.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	.2	1.7	1.2		5.1
NE	.4	.6	1.6	3.2		6.5
E	1.1	.9	1.6	5.3		6.3
SE	1.3	.7	1.1	4.0		5.9
S	2.5	1.9	2.2	4.1		5.1
SW	5.3	1.9	5.2	3.4		4.4
W	15.7	9.7	7.5	4.0		3.5
NW	5.9	1.3	1.5	2.6		3.4
VAR	.0	.0	.0	.0		.0
CALM	2.3	.2	.8	.2		2.3
TOT OBS	186	70	120	146	522	4.4
TOT PCT	35.6	13.4	23.0	28.0	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	.3	.0	.0	.1	.8	1.1	.1	.0	.0	.0	2.0	
NE	.5	.2	.4	.4	1.0	.3	.6	.2	.0	.0	2.1	
E	.8	.2	.1	1.1	2.0	1.3	.4	.2	.0	.0	2.7	
SE	.8	.0	.2	.9	.6	1.3	.2	.2	.4	.0	2.4	
S	.6	.0	.0	1.0	1.7	.5	.4	.0	.1	.4	6.0	
SW	.4	.1	.0	1.9	1.5	1.3	.8	.0	.1	.4	9.2	
W	1.0	.9	.0	1.0	1.5	2.3	.5	.4	.2	.7	25.0	
NW	.5	.0	.2	.5	1.4	.9	.4	.0	.4	.2	7.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	3.3	
TOT OBS	25	4	5	36	55	47	16	5	5	9	315	522
TOT PCT	4.8	.8	1.0	6.9	10.5	9.0	3.1	1.0	1.0	1.7	60.3	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	2.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8
* OR >5000	3.1	3.7	3.7	3.7	3.7	3.7	3.7	3.7
* OR >3500	5.2	6.3	6.4	6.4	6.4	6.4	6.4	6.4
* OR >2000	10.7	14.2	15.1	15.1	15.3	15.3	15.3	15.3
* OR >1000	15.3	21.9	24.5	24.9	25.2	25.6	25.8	25.8
* OR >600	17.7	26.7	31.3	31.7	32.0	32.4	32.6	32.6
* OR >300	18.2	27.4	32.2	33.0	33.3	33.7	33.9	33.9
* OR >150	18.2	27.4	33.0	33.7	34.1	34.4	34.6	34.6
* OR > 0	18.2	27.4	33.1	34.1	34.4	37.0	38.5	39.2
TOTAL	99	149	180	185	187	201	209	213

TOTAL NUMBER OF OBS: 543 PCT FREQ NH <5/8: 60.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
19.4	17.9	11.9	6.9	4.5	5.0	5.9	6.0	19.3	4.3	581

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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	*	.1	.1	*	.0	.2	.1	.1	.0	.0	.7	
<1/2	NO PCP	.1	.3	.6	.7	1.1	.8	.9	.3	.0	.0	4.5	
	TOT %	.2	.5	.7	.7	1.1	.7	1.0	.4	.0	.0	5.2	
	PCP	.0	*	.4	.2	.3	.0	.1	.0	.0	.0	1.1	
1/2<1	NO PCP	.0	.0	.4	.2	.2	.2	.2	.1	.0	.0	1.3	
	TOT %	.0	*	.8	.4	.5	.2	.3	.1	.0	.0	2.4	
	PCP	.0	.1	*	.2	.0	.1	.0	.0	.0	.0	.5	
1<2	NO PCP	.0	*	.2	.1	.3	.1	.1	.0	.0	.2	1.1	
	TOT %	.0	.2	.3	.3	.3	.2	.1	.0	.0	.2	1.6	
	PCP	.0	*	.5	.2	.6	.2	.2	.1	.0	.0	1.9	
2<5	NO PCP	.1	.1	.2	.8	.9	.6	.8	.2	.0	.1	3.7	
	TOT %	.1	.1	.7	1.0	1.5	.8	.9	.3	.0	.1	5.6	
	PCP	.7	.6	.5	.8	1.3	.8	.3	.6	.0	.0	5.6	
5<10	NO PCP	1.0	.9	2.2	2.7	5.7	5.5	7.9	3.7	.0	.7	30.2	
	TOT %	1.7	1.4	2.7	3.5	7.0	6.4	8.2	4.2	.0	.7	35.8	
	PCP	.2	.0	.1	.1	.4	*	.2	.1	.0	.0	1.1	
10+	NO PCP	2.3	2.3	4.1	2.7	4.6	7.1	17.0	6.3	.0	1.8	48.3	
	TOT %	2.5	2.3	4.2	2.9	5.0	7.2	17.2	6.4	.0	1.8	49.4	
	TOT OBS												1075
	TOT PCT	4.5	4.6	9.4	8.8	15.3	15.5	27.8	11.4	.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
	0-3	.1	*	.1	.2	.0	.0	.0	.1	.0	.0	.5	
<1/2	4-10	.1	.2	.5	.3	.6	.6	1.0	.2	.0		3.4	
	11-21	*	.2	.1	.1	.5	.1	.0	.1	.0		1.2	
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0		.1	
	TOT %	.2	.5	.7	.7	1.0	.7	1.1	.4	.0	.0	5.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1/2<1	4-10	.0	.0	.3	.2	.1	.2	.3	.1	.0		1.3	
	11-21	.0	*	.2	.2	.3	.0	.0	.0	.0		.7	
	22+	.0	.0	.3	.0	.1	.0	.0	.0	.0		.4	
	TOT %	.0	*	.8	.4	.3	.2	.3	.1	.0	.1	2.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
1<2	4-10	.0	.1	.1	*	.1	.2	.0	.0	.0		.5	
	11-21	.0	.1	.1	.0	.2	*	.1	.0	.0		.6	
	22+	.0	.0	.0	.2	*	.0	.0	.0	.0		.3	
	TOT %	.0	.2	.3	.3	.3	.2	.1	.0	.0	.2	1.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.2	
2<5	4-10	.1	.0	.2	.5	.6	.2	.7	.2	.0		2.5	
	11-21	.1	.1	.4	.4	.7	.3	.3	.0	.0		2.3	
	22+	.0	.0	.2	.1	.3	.2	.0	.0	.0		.7	
	TOT %	.1	.1	.8	1.0	1.5	.8	1.0	.3	.0	.1	5.8	
	0-3	.0	.1	.2	.3	.4	.7	.4	.7	.0	.8	3.7	
5<10	4-10	.9	.6	1.5	1.6	2.9	2.8	1.8	1.8	.0		13.9	
	11-21	.8	.4	.7	1.3	3.1	2.4	4.2	1.5	.0		14.5	
	22+	*	.2	.1	.1	.4	.3	1.6	.2	.0		3.1	
	TOT %	1.7	1.4	2.6	3.3	6.9	6.2	8.1	4.2	.0	.8	35.2	
	0-3	.4	.1	.6	.4	.4	.3	1.0	.6	.0	1.8	5.6	
10+	4-10	1.4	1.2	2.0	1.3	3.0	4.5	7.5	3.0	.0		23.9	
	11-21	.8	.9	1.4	1.1	1.4	2.2	6.9	2.2	.0		17.1	
	22+	.1	.2	.0	.1	.1	.2	2.0	.5	.0		3.2	
	TOT %	2.7	2.4	4.0	2.9	4.8	7.2	17.5	6.4	.0	1.8	49.8	
	TOT OBS												1113
	TOT PCT	4.8	4.7	9.2	8.6	15.0	15.3	28.1	11.4	.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	3.6	.0	1.4	6.4	13.6	8.6	2.1	1.4	.7	1.4	39.3	60.7	140
06&09	1.8	.0	.9	5.5	6.4	8.2	1.8	1.8	1.8	3.6	31.8	68.2	110
12&15	9.0	.0	1.3	6.4	9.6	9.0	3.8	.0	1.3	1.9	42.3	57.7	156
18&21	2.6	2.6	1.3	7.8	10.4	8.4	3.2	.6	.0	.6	37.7	62.3	154
TOT	25	4	7	37	57	48	16	5	5	10	214	346	560
PCT	4.5	.7	1.3	6.6	10.2	8.6	2.9	.9	.9	1.8	38.2	61.8	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	5.3	3.3	2.0	5.3	38.3	45.9	303
06&09	4.2	2.1	2.1	4.6	33.2	53.8	238
12&15	8.4	3.1	1.7	3.9	37.4	45.5	356
18&21	1.9	1.5	.4	9.5	31.6	55.1	263
TOT	61	30	18	66	411	574	1160
PCT	5.3	2.6	1.6	5.7	35.4	49.5	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	3.7	6.7	21.6	23.9	54.5	134
06&09	1.9	2.8	13.1	19.6	67.3	107
12&15	9.2	12.4	22.2	22.2	55.6	153
18&21	2.7	6.7	20.1	21.5	58.4	149
TOT	25	41	107	119	317	543
PCT	4.6	7.6	19.7	21.9	58.4	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	.1	.1	.0	.0	2	.3
65/69	.0	.0	.0	.1	.9	1.2	1.2	.9	29	4.3
60/64	.0	.0	.1	.1	2.2	7.0	9.8	6.4	173	25.8
55/59	.0	.0	.0	.1	1.3	8.2	19.8	18.3	321	47.8
50/54	.0	.0	.0	.0	.3	1.5	6.7	10.3	126	18.8
45/49	.0	.0	.0	.0	.0	.0	1.3	1.5	19	2.8
40/44	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	0	1	3	33	121	262	251	671	100.0
PCT	.0	.0	.1	.4	4.9	18.0	39.0	37.4		

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	.1	.0	.0	.0
.0	*	.1	.5	.7	.6	1.7	.4	.0	.3
.2	.9	1.2	1.9	4.2	4.9	8.8	2.2	.0	1.3
2.3	2.0	4.1	3.7	8.2	7.2	14.9	4.7	.0	.7
2.0	1.8	1.9	2.0	1.8	1.9	4.1	2.6	.0	.7
.4	.3	.3	.0	.0	.4	.8	.3	.0	.3
.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
5.0	5.1	7.6	8.1	14.9	15.2	30.5	10.2	.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	68	64	57	51	45	44	57.3	321
06&09	81	76	64	56	50	46	43	56.4	251
12&15	76	70	64	58	50	48	46	57.7	381
18&21	75	73	68	59	53	49	48	59.6	270
TOT	81	70	65	57	50	47	43	57.8	1223

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	3.2	16.0	40.6	40.1	87	187
06&09	.0	.0	.0	9.3	47.1	43.6	89	140
12&15	.0	.0	3.9	17.4	37.2	41.5	87	207
18&21	.0	2.4	12.5	27.4	30.4	27.4	82	168
TOT	0	4	35	125	270	268	86	702

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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	41	45	49	53	57	61	65	69	73	TOT	W	WD
TMP DIF	44	48	52	56	60	64	68	72	76		FOG	FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
14/16	.0	.0	.0	.0	.1	.0	.1	.0	.1	3	.0	.3
11/13	.0	.0	.0	.0	.5	.6	.5	.2	.3	21	.1	2.0
9/10	.0	.0	.2	.3	.3	1.9	.8	.1	.0	30	.2	2.8
7/8	.0	.0	.2	1.0	2.4	1.9	.9	.1	.0	65	.5	6.1
6	.0	.0	.3	.9	2.0	1.2	.3	.0	.0	47	.4	4.4
5	.0	.0	.1	2.2	2.6	2.7	.1	.0	.0	77	.8	7.0
4	.0	.2	.5	2.1	4.3	3.7	.5	.0	.0	111	1.0	10.3
3	.0	.1	.4	2.9	4.3	1.6	.6	.0	.0	98	.8	9.1
2	.0	.0	1.5	3.6	6.8	2.4	.1	.0	.0	142	1.1	13.3
1	.2	.3	.6	4.5	7.7	1.0	.2	.0	.0	143	1.2	13.3
0	.0	.2	.9	4.8	3.4	.4	.0	.0	.0	95	.9	8.7
-1	.0	.0	1.0	2.7	1.0	.4	.1	.0	.0	60	.9	5.2
-2	.0	.1	.4	1.9	.8	.0	.0	.0	.0	32	.0	3.3
-3	.0	.1	.6	.8	.3	.0	.0	.0	.0	18	.1	1.7
-4	.0	.1	.5	.8	.3	.1	.0	.0	.0	18	.0	1.8
-5	.0	.1	.4	.5	.3	.3	.0	.0	.0	16	.1	1.5
-6	.0	.0	.2	.0	.0	.1	.0	.0	.0	3	.0	.3
-7/-8	.0	.0	.0	.1	.1	.1	.0	.0	.0	3	.0	.3
TOTAL	2	12	78	288	376	176	42	4	6	984	81	903
PCT	.2	1.2	7.9	29.3	38.2	17.9	4.3	.4	.6	100.0	8.2	91.8

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	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.3	.0	.0	.0	.0	.3
3-4	.0	1.3	1.2	.0	.0	.0	2.5
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	2.0	2.3	.0	.0	.0	4.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.1	.0	.0	.0	.0	.4
1-2	.3	.4	1.1	.0	.0	.0	1.8
3-4	.0	.7	1.8	.0	.0	.0	2.5
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	.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	.7	1.2	3.0	.3	.0	.0	5.2

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	2.6	1.6	.0	.0	.0	4.2
3-4	.0	.3	.3	.0	.0	.0	.6
5-6	.0	.0	.7	.0	.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	.0	4.1	2.8	.0	.0	.0	6.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.1	.1	.0	.0	.0	.8
1-2	.3	1.9	.8	.0	.0	.0	3.0
3-4	.0	.8	1.3	.0	.0	.0	2.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.3	.0	.0	.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	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	2.8	2.2	.7	.0	.0	6.6

PERIOD: (OVER-ALL) 1963-1970

AUGUST

TABLE 18 (CONT)

AREA 0007 ANTICOSTI ISLAND
49.5N 62.4W

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	2.9	.6	.0	.0	.0	3.5
1-2	.6	1.9	1.4	.0	.0	.0	3.9
3-4	.0	.9	2.3	.0	.0	.0	3.2
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	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	5.8	4.3	.3	.0	.0	10.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	4.4	.0	.0	.0	.0	4.7
1-2	.1	4.1	1.3	.0	.0	.0	5.5
3-4	.0	1.3	1.9	.0	.0	.0	3.2
5-6	.0	.3	1.3	.2	.0	.0	1.8
7	.0	.3	.3	.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	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	10.4	4.8	.6	.0	.0	16.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.0	3.5	.3	.0	.0	.0	5.9
1-2	.0	8.0	4.1	.0	.0	.0	12.1
3-4	.0	3.9	5.9	.3	.0	.0	10.2
5-6	.0	.0	4.4	.8	.0	.0	5.3
7	.0	.0	1.0	.3	.0	.0	1.3
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	2.0	15.4	15.8	1.8	.0	.0	35.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.3	2.3	.0	.0	.0	.0	3.6	
1-2	.3	1.5	.8	.0	.0	.0	2.7	
3-4	.0	2.5	2.4	.0	.0	.0	4.9	
5-6	.0	.0	.5	.0	.0	.0	.5	
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	1.7	6.3	3.8	.3	.0	.0	12.1	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	8.2	14.8	1.0	.0	.0	.0	23.9	
1-2	2.3	20.3	10.8	.0	.0	.0	33.4	
3-4	.3	11.5	16.7	.3	.0	.0	28.9	
5-6	.0	.3	7.9	1.0	.0	.0	9.2	
7	.0	.3	1.6	1.3	.0	.0	3.3	
8-9	.0	.0	.0	.7	.0	.0	.7	
10-11	.0	.0	.0	.7	.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	10.8	47.2	38.0	3.9	.0	.0	100.0	305

PERIOD: (OVER-ALL) 1951-1970

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	10.8	23.3	19.8	8.0	1.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	234	2
6-7	.0	.5	6.0	6.3	1.5	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	5
8-9	.0	.3	.5	.5	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
10-11	.0	.0	.3	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	11
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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	9.5	4.5	2.5	.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	72	1
TOTAL	81	114	117	61	17	3	3	1	0	2	0	0	0	0	0	0	0	0	0	399	3
PCT	20.3	28.6	29.3	15.3	4.3	.8	.8	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1874-1970

AREA 0607 ANTICOSTI ISLAND
49.5N 62.4W

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	4.7	.9	3.3	.0	.0	.0	.0	8.9	1.9	.9	1.9	1.4	.0		.0	85.0
NE	12.4	.0	3.4	.0	.0	.0	.0	15.8	1.3	2.0	5.4	1.3	.0		.0	75.5
E	13.3	3.9	6.4	.0	.0	.0	.0	23.5	.0	.0	9.4	.0	1.1		.0	66.0
SE	16.9	2.1	1.4	.0	.0	.0	.0	20.4	.0	1.4	13.7	.4	1.4		.0	64.1
S	11.2	3.7	1.8	.0	.0	.0	.0	16.1	.8	.8	9.4	1.4	3.9		.0	67.6
SW	5.9	3.8	1.1	.0	.0	.0	.0	10.7	1.1	.0	9.3	.7	1.8		.0	76.4
W	1.3	1.7	.7	.0	.0	.0	.0	3.7	.3	.3	5.3	.5	1.5		.3	88.1
NW	2.3	1.0	1.6	.0	.0	.0	.0	4.9	.0	.0	2.4	.8	.0		.0	91.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	3.1	.0	.0	.0	.0	3.1	.0	.0	6.3	.0	.0		.0	90.6
TOT PCT	6.1	2.2	1.9	.0	.0	.0	.0	10.1	.5	.4	6.7	.7	1.3		.1	80.3
TOT OBS:	1114															

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	4.3	1.7	1.4	.0	.0	.0	.0	7.2	.6	.6	4.9	.3	.9		.3	85.3
06&09	8.3	2.1	3.3	.0	.0	.0	.0	13.6	.0	.8	5.8	.4	1.7		.0	78.5
12&15	6.7	2.9	2.2	.0	.0	.0	.0	11.8	.3	.3	11.5	.3	1.6		.0	74.1
18&21	5.2	1.9	2.2	.0	.0	.0	.0	9.4	1.1	.0	6.4	1.9	1.5		.0	79.8
TOT PCT	6.0	2.1	2.2	.0	.0	.0	.0	10.3	.5	.4	7.2	.7	1.4		.1	79.6
TOT OBS:	1169															

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	1.7	2.4	.2	.0	*		4.8	11.7	4.4	5.0	5.1	8.8	4.4	4.3	3.0	6.1
NE	.3	2.4	1.5	2.1	.0	.0		6.4	14.8	3.2	4.7	8.5	9.4	9.2	7.2	6.5	2.8
E	.4	3.3	3.0	1.0	.1	.0		7.7	12.9	6.9	4.5	10.1	3.4	11.0	4.5	8.3	7.3
SE	.5	3.5	7.0	.6	.1	.0		6.7	11.3	5.6	14.6	5.6	9.7	7.0	4.3	6.0	3.5
S	.9	5.3	9.9	.7	.2	.0		11.1	11.2	12.4	10.9	8.5	16.9	9.1	13.3	11.6	9.1
SW	.9	8.0	6.1	1.4	.2	.0		16.6	11.7	15.8	15.6	19.0	13.8	16.8	19.4	13.6	19.4
W	1.6	10.3	13.7	3.6	.7	.2		30.1	14.0	34.6	29.0	29.4	22.5	26.6	24.7	34.9	31.6
NW	.7	4.5	6.5	1.8	.3	*		13.8	13.9	13.5	13.9	8.0	15.6	12.9	19.1	14.3	19.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9							2.9	.0	3.4	2.0	5.8	.0	3.1	3.2	1.8	1.0
TOT OBS	102	470	471	137	19	3	1202		12.6	262	101	171	80	229	94	166	99
TOT PCT	8.5	39.1	39.2	11.4	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	1.1	2.8	.6	.1	*		4.8	11.7	4.5	6.3	4.3	4.2
NE	1.4	2.3	2.0	.6	.0		6.4	14.8	3.7	8.8	8.6	5.1
E	1.8	3.7	1.8	.4	.1		7.7	12.9	6.2	8.0	9.1	7.9
SE	2.3	2.7	1.4	.2	.0		6.7	11.3	8.1	6.9	6.2	5.1
S	3.0	6.1	1.7	.2	.1		11.1	11.2	12.0	11.2	10.3	10.7
SW	4.3	8.6	3.0	.5	.1		16.6	11.7	15.8	17.3	17.6	15.8
W	5.4	14.5	8.3	1.6	.3		30.1	14.0	33.1	27.2	26.1	33.7
NW	2.7	6.1	4.2	.7	.1		13.8	13.9	13.6	10.5	14.7	16.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.9						2.9	.0	3.0	4.0	3.1	1.5
TOT OBS	301	565	276	52	8	1202		12.6	363	251	323	265
TOT PCT	25.0	47.0	23.0	4.3	.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	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.0	5.8	35.8	44.1	9.6	1.7	.0	12.4	100.0	363
06&09	4.0	4.0	50.6	34.3	5.6	1.2	.4	11.1	100.0	251
12&15	3.1	5.3	37.5	38.1	14.9	.9	.3	12.8	100.0	323
18&21	1.9	7.2	34.7	38.5	15.1	2.6	.4	13.9	100.0	265
TOT	35	67	470	471	137	19	3	12.6		1202
PCT	2.9	5.6	39.1	39.2	11.4	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	1.9	.4	.8	1.2		4.2
NE	1.4	.2	2.2	4.1		6.1
E	2.1	.4	2.5	5.5		6.0
SE	1.4	.6	.8	2.6		5.3
S	2.5	.3	2.3	4.4		5.6
SW	6.2	1.7	2.8	2.7		3.8
W	17.8	6.7	5.7	4.1		3.0
NW	3.8	1.8	3.0	2.0		4.1
VAR	.0	.0	.0	.0		.0
CALM	2.0	.6	.6	.9		3.3
TOT OBS	212	69	112	150	543	4.2
TOT PCT	39.0	12.7	20.6	27.6	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	.3	.0	.0	.5	.6	.2	.4	.0	.0	.0	2.3	
NE	.3	*	.6	.2	2.3	.9	.4	.2	.4	.0	2.6	
E	.7	.3	.5	.8	.9	1.9	.4	.6	.2	.2	4.0	
SE	.2	.2	.0	.3	.6	.6	.6	.2	.0	.4	2.3	
S	.6	.0	.2	1.5	1.0	.3	.6	.3	.0	.7	4.3	
SW	.4	.0	.4	.3	1.1	.6	.1	.0	.0	.9	9.6	
W	.4	.4	.0	.3	2.0	1.6	1.4	.2	.2	1.1	26.9	
NW	*	.0	.2	.1	1.5	1.3	1.0	.1	.0	*	6.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.2	.2	.4	.0	.2	.0	.0	2.9	
TOT OBS	17	8	10	23	55	42	26	10	4	18	333	543
TOT PCT	3.1	.9	1.8	4.2	10.1	7.7	4.8	1.8	.7	3.3	61.3	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 >90YD	* OR >0
* OR >6500	2.5	3.8	3.9	3.9	3.9	3.9	3.9	3.9
* OR >5000	3.9	5.5	5.7	5.7	5.7	5.7	5.7	5.7
* OR >3500	7.3	9.8	10.2	10.2	10.2	10.4	10.4	10.4
* OR >2000	12.7	16.6	17.5	17.7	17.7	17.9	18.2	18.2
* OR >1000	18.4	26.1	27.7	28.0	28.0	28.4	28.8	28.8
* OR >600	20.5	28.9	31.1	32.0	32.1	32.5	32.9	32.9
* OR >300	21.1	29.5	32.3	33.6	33.8	34.3	34.6	34.6
* OR >150	21.3	29.8	32.9	34.1	34.6	35.2	35.5	35.5
* OR > 0	21.6	30.4	33.6	35.2	35.9	36.8	38.6	39.1
TOTAL	121	170	188	197	201	206	216	219

TOTAL NUMBER OF OBS: 560 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
27.3	12.4	10.4	5.5	3.1	3.4	4.6	6.5	24.2	2.6	615

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TABLE 8

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

VSBY (NMI)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.1	*	.1	.0	.0	.0	.0	.0	.2	
<1/2	NO PCP	.1	.3	.3	.5	.7	.6	.2	.0	.0	.1	2.9	
	TOT %	.1	.3	.4	.5	.8	.6	.2	.0	.0	.1	3.1	
	PCP	.0	.2	.1	.1	.1	.0	.0	.0	.0	.0	.4	
1/2<1	NO PCP	.0	*	.2	.4	.3	.4	1.0	.3	.0	.0	2.6	
	TOT %	.0	.2	.2	.4	.4	.4	1.0	.3	.0	.0	3.1	
	PCP	*	*	.2	.1	.2	.0	.0	.0	.0	.0	.6	
1<2	NO PCP	.0	.1	.1	.0	.0	.4	.1	.0	.0	.0	.7	
	TOT %	*	.2	.3	.1	.2	.4	.1	.0	.0	.0	1.3	
	PCP	.1	.2	.5	.1	.3	.2	.2	.2	.0	.1	1.9	
2<5	NO PCP	.2	.1	.2	.3	.6	.4	.0	.1	.0	.1	2.0	
	TOT %	.2	.3	.7	.4	.9	.7	.2	.3	.0	.2	3.9	
	PCP	.1	.4	.9	.7	.7	1.3	.7	.4	.0	.0	5.2	
5<10	NO PCP	1.6	1.4	1.4	1.6	3.7	5.2	7.9	5.3	.0	.4	28.7	
	TOT %	1.7	1.8	2.3	2.4	4.4	6.6	8.6	5.7	.0	.4	33.9	
	PCP	.2	.3	.2	.2	.4	.1	.2	.1	.0	.0	1.7	
10+	NO PCP	2.5	3.6	3.9	2.3	3.9	7.2	20.0	7.5	.0	2.2	53.1	
	TOT %	2.7	3.9	4.2	2.5	4.3	7.3	20.2	7.5	.0	2.2	54.8	
	TOT OBS												1114
	TOT PCT	4.8	6.7	8.1	6.4	11.0	16.0	30.3	13.8	.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
	0-3	.0	.0	*	.1	.1	*	.2	.0	.0	.1	.5	
<1/2	4-10	.1	.1	.1	.3	.6	.3	.1	*	.0		1.6	
	11-21	.0	.1	.2	.1	.0	.3	.1	.0	.0		.8	
	22+	.0	.1	.0	.0	.1	.0	.0	.0	.0		.2	
	TOT %	.1	.3	.4	.5	.8	.6	.3	*	.0	.1	3.1	
	0-3	.0	.0	.0	.1	.0	.1	.3	.1	.0	.0	.6	
1/2<1	4-10	.0	.0	.0	.2	.2	.2	.3	.2	.0		1.1	
	11-21	.0	*	.2	.1	*	.1	.4	*	.0		.8	
	22+	.0	.2	.1	.1	.2	.0	.0	.0	.0		.5	
	TOT %	.0	.2	.2	.4	.4	.4	1.0	.3	.0	.0	3.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	*	.1	.0	.1	.4	.1	.0	.0		.6	
	11-21	*	*	.1	*	.1	.0	.0	.0	.0		.3	
	22+	.0	.1	.1	.1	.1	.0	.0	.0	.0		.4	
	TOT %	*	.2	.3	.1	.2	.4	.1	.0	.0	.0	1.3	
	0-3	.0	.0	.0	.1	.1	.0	.0	.1	.0	.3	.5	
2<5	4-10	.1	.0	.2	.1	.4	.3	.1	.0	.0		1.1	
	11-21	.2	.1	.5	.2	.3	.3	.1	.1	.0		1.7	
	22+	.0	.2	.1	.0	.1	.2	.0	.1	.0		.6	
	TOT %	.2	.3	.7	.4	.9	.8	.2	.3	.0	.3	4.0	
	0-3	*	.1	.1	*	.2	.4	.5	.3	.0	.4	2.1	
5<10	4-10	.5	.6	1.0	1.2	2.1	2.1	2.6	1.4	.0		11.5	
	11-21	1.0	.2	.9	1.0	1.8	3.0	3.4	2.7	.0		14.1	
	22+	.1	.9	.3	.3	.2	1.0	1.9	1.2	.0		5.8	
	TOT %	1.7	1.8	2.3	2.4	4.4	6.5	8.5	5.6	.0	.4	33.5	
	0-3	.3	.3	.3	.1	.5	.3	.6	.3	.0	2.1	4.7	
10+	4-10	.9	1.8	2.1	1.7	1.7	4.2	6.9	2.8	.0		22.0	
	11-21	1.3	1.0	1.4	.6	1.9	2.5	10.1	3.6	.0		22.4	
	22+	.2	.8	.5	.3	.3	.4	2.6	.9	.0		6.0	
	TOT %	2.7	3.9	4.2	2.7	4.3	7.4	20.2	7.5	.0	2.1	55.1	
	TOT OBS												1131
	TOT PCT	4.8	6.6	8.1	6.6	11.0	16.0	30.2	13.7	.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	3.9	.7	.7	2.6	7.8	5.9	4.6	2.6	.7	2.6	32.0	68.0	153
06&09	4.4	1.5	.0	5.8	7.3	7.3	5.1	.0	.0	3.6	35.0	65.0	137
12&15	3.6	.7	2.9	2.1	15.0	10.7	4.3	3.6	.0	3.6	46.4	53.6	140
18&21	2.0	.7	3.3	5.3	10..	6.7	4.0	.7	2.0	2.7	38.0	62.0	150
TOT	20	5	10	23	59	44	26	10	4	18	219	361	580
PCT	3.4	.9	1.7	4.0	10.2	7.6	4.5	1.7	.7	3.1	37.8	62.2	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	2.2	2.8	.8	1.7	37.6	54.8	356
06&09	3.3	2.9	.8	4.5	25.7	62.9	245
12&15	4.7	5.1	1.9	3.2	40.8	44.9	316
18&21	3.0	3.0	2.2	7.1	28.3	56.5	269
TOT	39	41	15	46	402	643	1186
PCT	3.3	3.5	1.3	3.9	33.9	54.2	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	4.2	6.9	11.1	25.0	63.9	144
06&09	4.5	6.8	15.8	21.8	62.4	133
12&15	3.6	8.0	13.8	35.5	50.7	138
18&21	2.1	9.0	20.7	22.1	57.2	145
TOT	20	43	86	146	328	560
PCT	3.6	7.7	15.4	26.1	58.6	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
70/74	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
60/64	.0	.1	.1	.3	.4	1.4	.9	1.0	30	4.3
55/59	.0	.0	.0	.3	1.4	4.7	8.2	9.3	167	24.0
50/54	.0	.0	.1	1.0	3.0	6.9	12.1	15.4	268	38.5
45/49	.0	.0	.0	1.4	2.0	5.5	7.3	8.0	169	24.3
40/44	.0	.0	.0	.6	.6	1.9	2.7	2.2	55	7.9
35/39	.0	.0	.0	.0	.0	.1	.6	.1	6	.9
TOTAL	0	1	2	25	53	143	221	251	696	100.0
PCT	.0	.1	.3	3.6	7.6	20.5	31.8	36.1		

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	.1	.0	.0	.0
.0	.1	.4	*	.9	.6	1.7	.3	.0	.3
.8	1.5	2.3	1.8	4.3	4.0	6.6	1.5	.0	1.1
1.3	2.0	3.4	2.6	5.6	6.4	11.9	4.1	.0	1.1
1.7	2.5	2.0	.9	1.5	2.3	9.2	3.8	.0	.4
.3	.6	1.0	.2	.1	.5	2.9	1.9	.0	.4
.1	.1	.0	.0	.0	.0	.3	.4	.0	.0
4.2	6.7	9.0	5.6	12.4	13.9	32.7	12.0	.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	65	62	58	52	43	40	39	51.3	373
06&09	64	61	59	51	42	39	37	50.9	256
12&15	67	64	61	52	43	40	37	51.9	339
18&21	73	64	60	54	44	42	40	53.2	274
TOT	73	63	60	52	43	40	37	51.8	1242

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	7.0	19.6	33.2	36.0	84	214
06&09	.0	1.9	4.5	19.4	29.0	45.2	86	155
12&15	.0	2.7	7.0	18.9	32.4	38.9	85	185
18&21	.0	6.5	10.6	24.7	31.2	27.1	81	170
TOT	0	28	53	149	229	265	84	724

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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	37	41	45	49	53	57	;1	65	69	TOT	W	WO
TMP AIR	40	44	48	52	56	60	o4	68	72		FOG	FOG
20/22	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
17/19	.0	.0	.0	.0	.0	.1	.2	.0	.1	4	.0	.4
14/16	.0	.0	.0	.0	.0	.0	.1	.0	.1	2	.1	.1
11/13	.0	.0	.0	.1	.2	.1	.3	.2	.0	9	.3	.6
9/10	.0	.0	.3	.2	.5	.9	.4	.0	.0	17	.2	1.5
7/8	.0	.0	.4	.5	1.1	1.9	.7	.1	.0	40	.5	3.4
6	.0	.0	.5	.7	1.1	.9	.0	.0	.0	32	.3	2.9
5	.0	.0	.7	1.3	1.3	1.4	.4	.0	.0	55	.2	5.2
4	.0	.3	.7	1.7	3.0	2.5	.5	.0	.0	87	1.1	7.5
3	.0	.8	.8	1.8	2.9	1.9	.2	.0	.0	84	1.5	6.8
2	.0	.5	1.4	2.5	4.6	1.9	.1	.0	.0	111	.6	10.3
1	.1	.5	1.3	4.3	4.6	1.6	.0	.0	.0	126	1.5	10.9
0	.2	.9	2.0	5.0	3.3	1.2	.1	.0	.0	129	.9	11.8
-1	.5	.8	1.8	3.5	3.0	.3	.0	.0	.0	100	.4	9.4
-2	.2	.6	2.3	2.1	1.5	.1	.0	.0	.0	68	.0	6.7
-3	.1	.5	2.0	2.6	.7	.1	.0	.0	.0	60	.0	5.9
-4	.1	.6	1.4	1.6	.2	.0	.0	.0	.0	39	.3	3.5
-5	.1	.4	.6	.6	.1	.0	.0	.0	.0	18	.0	1.8
-6	.1	.3	.6	.3	.1	.0	.0	.0	.0	14	.0	1.4
-7/-8	.2	.5	.6	.1	.0	.0	.0	.0	.0	14	.0	1.4
-9/-10	.1	.1	.1	.1	.0	.0	.0	.0	.0	4	.0	.4
-11/-13	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-17/-19	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	17		176		285		90		2		79	937
		69		293		141		3		1016		
PCT	1.7	6.8	17.3	28.8	28.1	13.9	3.0	.3	.2	100.0	7.8	92.2

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	.3	.6	.3	.0	.0	.0	1.2
1-2	.0	.0	1.0	.0	.0	.0	1.0
3-4	.0	.6	.3	.0	.0	.0	.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	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	1.2	3.1	.3	.0	.0	4.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.1	.0	.0	.0	.7
1-2	.9	1.0	.8	.0	.0	.0	2.2
3-4	.0	.3	.8	.4	.0	.0	1.5
5-6	.0	.3	.4	.3	.0	.0	1.1
7	.0	.0	.1	1.4	.0	.0	1.5
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.3	1.0	.0	.0	1.3
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	2.3	2.5	4.3	.0	.0	9.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.1	.6	.0	.0	.0	2.7
1-2	.0	.6	1.3	.0	.0	.0	1.8
3-4	.0	1.9	1.8	.3	.0	.0	4.0
5-6	.0	.0	.6	.7	.0	.0	1.3
7	.0	.0	.3	.5	.0	.0	.8
8-9	.0	.0	.0	.3	.3	.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	4.6	4.5	1.7	.3	.0	11.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.5	.0	.0	.0	.0	.8
1-2	.0	1.3	.3	.0	.0	.0	1.7
3-4	.0	.2	.5	.0	.0	.0	.7
5-6	.0	.0	.8	.0	.0	.0	.8
7	.0	.0	.1	.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	.9	2.0	1.7	.8	.0	.0	4.8

PERIOD: (OVER-ALL) 1963-1970

SEPTEMBER

TABLE 18 (CONT)

AREA 0007 ANTICOSTI ISLAND
49.5N 62.4W

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	.6	.0	.0	.0	.0	.6
1-2	.0	4.0	.6	.0	.0	.0	4.6
3-4	.0	.6	1.4	.0	.0	.0	2.0
5-6	.0	.0	1.8	.0	.0	.0	1.8
7	.0	.0	.3	.0	.3	.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	.0	5.2	4.1	.0	.3	.0	9.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.8	.0	.0	.0	.0	3.3
1-2	.0	2.6	1.6	.0	.0	.0	4.2
3-4	.7	2.8	2.3	.0	.0	.0	5.8
5-6	.0	.4	.9	.0	.0	.0	1.3
7	.0	.0	.4	.7	.0	.0	1.1
8-9	.0	.0	.3	.3	.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	.1	.0	.1
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	1.1	8.7	5.6	1.0	.4	.0	16.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	4.1	.3	.0	.0	.0	5.0
1-2	.3	4.1	2.5	.0	.0	.0	6.9
3-4	.0	4.8	5.4	.0	.0	.0	10.2
5-6	.0	.9	4.1	.7	.0	.0	5.7
7	.0	.0	.9	.6	.3	.0	1.8
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.3	.0	.6
13-16	.0	.0	.0	.0	.3	.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	.9	13.8	13.3	1.9	.8	.0	30.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.4	.1	.0	.0	.0	1.5	
1-2	.7	2.8	.9	.0	.0	.0	4.3	
3-4	.0	.5	.4	.0	.0	.0	.9	
5-6	.0	.3	.9	.0	.0	.0	1.3	
7	.0	.0	.0	.4	.0	.0	.4	
8-9	.0	.0	.3	.0	.0	.0	.3	
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	.7	5.0	2.7	.4	.1	.0	8.8	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	7.8	12.6	1.3	.0	.0	.0	21.7	
1-2	1.3	15.9	8.7	.0	.0	.0	25.9	
3-4	1.0	11.3	12.6	.6	.0	.0	25.6	
5-6	.0	1.9	10.4	1.9	.0	.0	14.2	
7	.0	.0	2.3	4.2	.6	.0	7.1	
8-9	.0	.0	.6	1.3	.3	.0	2.3	
10-11	.0	.0	.0	.3	.0	.0	.3	
12	.0	.0	.3	1.3	.3	.0	1.9	
13-16	.0	.0	.0	.3	.3	.0	.6	
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	10.0	41.7	36.2	10.0	1.9	.0	100.0	309

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	5.7	19.3	20.3	8.7	2.8	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	246	3
6-7	.2	.7	3.1	4.0	2.8	.7	.9	1.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	6
8-9	.0	.7	1.4	.5	.7	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	5
10-11	.0	.2	.5	.0	.0	.7	.5	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	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	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	11
INDET	10.6	4.2	3.8	.7	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	2
TOTAL	70	107	123	59	30	16	8	7	3	1	0	0	0	0	0	0	0	0	0	424	3
PCT	16.5	25.2	29.0	13.9	7.1	3.8	1.9	1.7	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1923-1970
(OVER-ALL) 1874-1970

AREA 0007 ANTICOSTI ISLAND
49.5N 62.5W

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	7.8	3.8	.7	.0	7.1	.0	.9	18.7	1.4	1.9	3.3	.0	.0	.0		74.7
NE	19.6	.0	11.0	.0	4.1	.0	.9	35.6	.5	.0	.9	.0	.0	.0		63.0
E	17.6	5.0	7.3	.0	2.8	.0	.5	31.2	2.8	.0	9.8	.0	.0	.0		56.2
SE	22.9	2.4	5.0	.0	.0	.0	.0	30.3	5.0	.0	6.5	1.2	1.5	.0		55.6
S	12.0	2.3	3.8	.0	.0	.0	.0	17.0	.0	.0	7.0	.9	3.2	.0		71.9
SW	7.7	.8	5.3	.0	.4	.0	.0	13.4	2.6	.4	4.7	.2	2.4	.0		76.3
W	3.0	.7	.8	.0	.3	.0	.0	4.9	.9	.5	1.9	.3	.0	.3		91.1
NW	2.1	2.4	1.2	.0	1.9	.0	.0	7.1	1.1	.5	3.7	.0	.0	.0		87.7
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	16.7	.0	5.6	.0		77.8
TOT PCT	8.3	2.0	3.1	.0	1.7	.0	.2	14.5	1.6	.5	4.4	.3	.7	.1		77.9
TOT OBS:	1073															

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	10.3	3.1	2.8	.0	1.9	.0	.3	17.8	2.2	.9	4.0	.3	.9	.3		73.5
06&09	9.1	2.1	2.5	.0	1.6	.0	.0	14.4	1.2	.8	3.7	.0	.8	.0		79.0
12&15	6.9	.9	3.8	.0	2.2	.0	.3	13.4	1.3	.0	4.7	.0	.6	.0		80.0
18&21	6.5	2.4	4.1	.0	1.2	.0	.0	13.5	1.2	.0	4.9	.8	.4	.0		79.2
TOT PCT	8.2	2.1	3.3	.0	1.8	.0	.2	14.9	1.5	.4	4.3	.3	.7	.1		77.8
TOT OBS:	1129															

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	3.6	9.9	1.5	.3	.0		9.7	14.1	7.7	15.0	11.7	13.5	12.5	8.6	3.3	7.7
NE	.2	1.9	2.5	.9	.3	.0		5.8	15.3	4.0	3.8	2.0	6.8	8.1	10.6	5.3	7.7
E	.5	2.7	3.3	2.1	.4	.0		9.0	15.7	10.8	1.3	8.8	6.0	9.2	12.1	9.6	9.5
SE	.3	2.3	3.2	1.4	.2	.0		7.4	15.1	9.8	10.6	8.6	6.0	8.0	1.0	6.4	3.6
S	.4	3.0	3.8	1.0	.1	.0		8.4	13.3	6.5	9.7	8.9	6.3	8.1	13.4	10.5	11.9
SW	.5	5.1	3.7	2.1	.1	.0		11.5	13.6	8.9	12.8	13.4	10.7	13.1	11.4	13.2	7.7
W	1.0	7.2	11.4	5.5	2.0	.1		27.2	17.0	31.8	22.2	25.5	22.9	21.9	26.8	33.1	31.5
NW	.7	5.0	9.0	3.6	1.0	.0		19.3	16.2	18.1	23.4	18.6	25.8	19.9	16.2	16.9	19.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0	2.4	1.3	2.5	2.1	1.2	.0	1.8	1.2
TOT OBS	68	369	488	218	54	1	1198		15.2	255	80	160	96	255	99	169	84
TOT PCT	5.7	30.8	40.7	18.2	4.5	.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	1.6	4.6	2.9	.6	.0		9.7	14.1	9.5	12.4	11.4	4.7
NE	.8	2.8	1.5	.6	.1		5.8	15.3	4.0	3.8	8.8	6.1
E	1.7	3.5	2.7	1.2	.0		9.0	15.7	8.5	7.7	10.0	9.6
SE	1.1	3.4	2.1	.7	*		7.4	15.1	10.0	7.6	6.1	5.4
S	1.6	4.4	2.0	.3	*		8.4	13.3	7.2	7.9	8.1	11.0
SW	2.4	5.5	2.7	.9	*		11.5	13.6	9.9	12.4	12.6	11.4
W	3.3	10.8	8.9	3.6	.6		27.2	17.0	29.5	24.5	23.2	32.6
NW	2.4	8.1	6.8	1.7	.3		19.3	16.2	19.4	21.3	18.9	17.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	2.1	2.3	.8	1.6
TOT OBS	199	516	354	116	13	1198		15.2	335	256	354	253
TOT PCT	16.6	43.1	29.5	9.7	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	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.1	5.1	31.0	39.7	17.0	5.1	.0	15.0	100.0	335
06&09	2.3	3.1	34.0	41.4	16.4	2.7	.0	14.4	100.0	256
12&15	.8	4.2	31.1	43.5	15.8	4.2	.3	14.7	100.0	354
18&21	1.6	3.2	26.9	37.5	24.9	5.9	.0	17.1	100.0	253
TOT	20	48	369	488	218	54	1	15.2		1198
PCT	1.7	4.0	30.8	40.7	18.2	4.5	.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	3.8	.6	1.6	2.0		3.9
NE	.3	.5	.9	2.1		6.6
E	1.3	.6	.8	5.8		6.4
SE	.4	1.0	1.1	4.9		6.7
S	1.2	.6	2.2	4.4		6.1
SW	4.0	.8	2.8	6.1		5.2
W	12.4	5.9	6.9	6.2		3.9
NW	8.8	2.3	3.9	2.3		3.4
VAR	.0	.0	.0	.0		.0
CALM	.5	.3	.0	.9		4.9
TOT OBS	191	74	118	204	587	4.7
TOT PCT	32.5	12.6	20.1	34.8	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	.2	.3	.3	.7	.1	.1	.5	.4	9.2	
NE	.0	.0	.0	.5	1.7	.4	.2	.1	.0	.1	.8	
E	.5	.0	.3	.6	1.9	1.4	.5	.0	.2	.6	2.4	
SE	.5	.2	.0	1.1	1.9	1.0	.6	.0	.0	.2	1.9	
S	.6	.1	.2	.6	1.7	1.4	.3	.1	.0	.8	2.4	
SW	.2	.2	.2	2.5	1.8	1.8	.4	.1	.0	.2	6.4	
W	.2	.0	.3	1.7	3.1	1.7	1.9	.3	.3	.9	20.7	
NW	.2	.0	.0	.5	2.2	1.2	.4	.2	.2	.4	12.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.0	
TOT OBS	17	3	7	47	86	57	26	5	7	21	311	587
TOT PCT	2.9	.5	1.2	8.0	14.7	9.7	4.4	.9	1.2	3.6	53.0	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	3.9	4.3	4.8	4.8	4.8	4.8	4.8	4.8
= OR >5000	4.8	5.1	5.6	5.6	5.6	5.6	5.6	5.6
= OR >3500	8.4	9.2	9.9	9.9	9.9	9.9	9.9	9.9
= OR >2000	14.3	17.7	18.7	19.0	19.4	19.4	19.4	19.5
= OR >1000	23.0	29.2	32.7	33.3	34.0	34.0	34.0	34.2
= OR >600	27.3	36.1	40.7	41.9	42.5	42.5	42.5	42.7
= OR >300	27.9	36.9	41.9	43.0	43.7	43.7	43.7	43.8
= OR >150	28.1	37.3	42.4	43.5	44.2	44.2	44.2	44.3
= OR > 0	28.2	37.6	43.2	44.8	45.8	46.8	46.8	47.3
TOTAL	172	229	263	273	279	280	285	288

TOTAL NUMBER OF OBS: 609 PCT FREQ NH <5/8: 52.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
18.2	11.7	9.3	6.4	4.6	4.0	5.8	7.5	30.3	2.4	677

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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	.2	.0	.1	.1	.0	.0	.0	*	.0	.0	.4	
	NO PCP	.1	.0	.3	.2	.2	.2	.2	*	.0	.3	1.5	
	TOT %	.3	.0	.3	.3	.2	.2	.2	.1	.0	.3	1.9	
1/2<1	PCP	.1	.1	.1	.1	.1	.0	.1	.1	.0	.0	.7	
	NO PCP	.2	*	.4	.3	.1	.1	.2	.5	.0	.0	1.8	
	TOT %	.3	.1	.5	.4	.2	.1	.3	.7	.0	.0	2.5	
1<2	PCP	.1	.1	.6	.3	.1	.0	.1	.2	.0	.0	1.4	
	NO PCP	.0	.0	.1	.1	.1	.2	.1	.1	.0	.0	.7	
	TOT %	.1	.1	.7	.3	.2	.2	.2	.3	.0	.0	2.1	
2<5	PCP	.1	.5	.5	.6	.3	.2	.1	.2	.0	.0	2.7	
	NO PCP	.1	*	.6	.3	.5	.4	.3	.4	.0	.1	2.7	
	TOT %	.2	.5	1.1	.9	.9	.6	.4	.6	.0	.1	5.4	
5<10	PCP	1.1	.8	1.4	1.2	.5	1.1	.8	.4	.0	.0	7.3	
	NO PCP	2.1	1.2	1.7	1.6	2.1	3.0	6.2	4.9	.0	.3	23.2	
	TOT %	3.1	2.1	3.1	2.8	2.6	4.1	7.1	5.3	.0	.3	30.5	
10+	PCP	.3	.3	.2	.1	.4	.2	.3	.4	.0	.0	2.1	
	NO PCP	5.5	2.0	3.3	3.1	3.6	6.1	19.2	11.8	.0	1.0	55.5	
	TOT %	5.8	2.2	3.5	3.2	3.9	6.3	19.5	12.2	.0	1.0	57.7	
	TOT OBS												1073
	TOT PCT	9.9	5.1	9.2	7.9	8.0	11.4	27.7	19.1	.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	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.4	
	4-10	*	.0	.1	.2	*	.1	.1	*	.0		.6	
	11-21	.1	.0	.1	.1	.2	*	.0	.0	.0		.4	
	22+	.1	.0	.2	*	.0	.0	.1	*	.0		.4	
	TOT %	.3	.0	.3	.3	.2	.2	.2	.1	.0	.3	1.8	
1/2<1	0-3	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.3	
	4-10	.1	*	.4	.1	.1	.0	.0	.3	.0		1.0	
	11-21	.1	.0	.1	.1	.2	.0	.3	.1	.0		.9	
	22+	*	.1	.0	.1	.0	.0	.0	.1	.0		.4	
	TOT %	.3	.1	.4	.4	.3	.1	.3	.6	.0	.0	2.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	*	.1	.1	.1	.1	.0		.4	
	11-21	.0	*	.1	.0	.0	.1	.1	.1	.0		.4	
	22+	.1	.1	.6	.3	.2	.0	.0	.1	.0		1.3	
	TOT %	.1	.1	.6	.3	.2	.2	.2	.3	.0	.0	2.0	
2<5	0-3	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.3	
	4-10	.0	.2	.2	.1	.1	.2	*	.3	.0		1.1	
	11-21	.2	.3	.2	.4	.6	.3	.2	.2	.0		2.4	
	22+	.0	.0	.7	.3	.3	.1	.1	.1	.0		1.6	
	TOT %	.2	.5	1.1	.9	.9	.6	.4	.6	.0	.1	5.3	
5<10	0-3	.0	*	.1	.1	.3	.1	.4	.4	.0	.3	1.8	
	4-10	.6	.5	.7	.7	1.0	1.2	1.4	1.0	.0		7.1	
	11-21	1.5	1.2	1.6	1.3	1.2	1.4	3.2	1.8	.0		13.1	
	22+	.9	.4	.7	.6	.1	1.2	1.8	1.8	.0		7.5	
	TOT %	3.0	2.1	3.1	2.7	2.6	3.9	6.8	5.0	.0	.3	29.5	
10+	0-3	.3	.1	.4	*	.2	.1	.7	.3	.0	1.0	3.0	
	4-10	2.9	1.3	1.2	1.3	1.7	3.1	5.5	3.4	.0		20.3	
	11-21	2.0	.7	1.4	1.3	1.7	2.0	7.7	6.7	.0		23.5	
	22+	.7	.6	.6	.5	.6	1.1	5.9	2.2	.0		12.1	
	TOT %	6.0	2.7	3.6	3.1	4.2	6.2	19.7	12.6	.0	1.0	59.0	
	TOT OBS												1136
	TOT PCT	9.8	5.6	9.1	7.6	8.4	11.2	27.5	19.2	.0	1.6	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	3.1	.0	.0	6.3	14.5	8.8	2.5	.0	1.9	4.4	41.5	58.5	159
06&09	2.7	.7	1.4	8.2	10.9	8.2	4.1	.7	.7	4.1	41.5	58.3	147
12&15	2.5	.0	1.2	11.0	16.0	9.2	3.7	1.2	.6	2.5	47.9	52.1	163
18&21	3.1	1.3	1.9	7.5	15.1	11.3	6.9	1.3	1.3	3.1	52.8	47.2	159
TOT	18	8	7	52	89	59	27	5	7	22	289	339	628
PCT	2.9	.5	1.1	8.3	14.2	9.4	4.3	.8	1.1	3.5	46.0	54.0	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	1.8	1.5	1.5	7.2	32.1	55.9	333
06&09	2.3	2.3	1.6	4.3	26.2	63.3	256
12&15	1.4	3.1	2.6	2.6	33.1	57.1	350
18&21	1.6	2.8	2.4	7.5	25.7	60.1	253
TOT	21	29	24	63	395	700	1192
PCT	1.8	2.4	2.0	5.3	29.8	58.7	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	3.3	3.3	14.6	29.1	56.3	151
06&09	3.5	5.6	20.1	23.6	56.3	144
12&15	2.5	4.4	18.2	31.4	50.3	159
18&21	3.2	8.4	23.2	32.3	44.5	155
TOT	19	33	116	178	315	609
PCT	3.1	5.4	19.0	29.2	51.7	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
60/64	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
55/59	.0	.0	.0	.3	.0	.3	.3	.4	9	1.3
50/54	.0	.0	.0	.6	1.0	2.4	4.2	3.4	82	11.6
45/49	.0	.0	.0	.7	2.5	5.6	10.4	12.1	222	31.5
40/44	.0	.0	.6	1.1	4.4	9.0	8.3	10.4	240	33.9
35/39	.0	.1	.4	1.4	2.4	3.7	3.2	3.4	104	14.7
30/34	.0	.0	.1	.6	1.1	.4	1.7	1.7	40	5.6
25/29	.0	.0	.0	.3	.0	.1	.3	.6	9	1.3
20/24	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
TOTAL	0	1	8	35	82	194	202	227	709	100.0
PCT	.0	.1	1.1	4.9	11.6	21.7	28.5	32.0		

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	.1	.0	.1	.2	.2	.4	.1	.0	.0
.4	.6	.7	.9	1.3	2.4	3.2	1.9	.0	.1
2.3	1.2	2.8	3.1	3.5	4.2	9.3	4.2	.0	1.0
3.8	1.2	2.9	2.3	2.2	3.8	11.7	5.9	.0	.1
2.5	1.1	1.4	.3	.7	.5	3.1	4.9	.0	.3
1.1	.4	.2	.0	.0	.1	1.1	2.7	.0	.0
.4	.0	.0	.0	.0	.0	.4	.5	.0	.0
.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
10.5	4.6	7.9	6.8	8.1	11.2	29.1	20.3	.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	58	54	51	44	35	29	27	43.7	349
06&09	56	54	52	42	33	28	23	42.4	266
12&15	62	55	52	44	35	26	23	43.1	366
18&21	65	57	54	46	35	32	30	45.4	261
TOT	65	55	52	44	34	28	23	43.6	1242

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	9.9	18.3	28.2	39.4	83	213
06&09	.0	4.9	13.4	20.1	26.2	35.4	82	184
12&15	.0	5.1	10.7	23.5	32.1	28.6	82	196
18&21	.0	10.5	12.3	24.6	26.3	26.3	79	171
TOT	0	45	85	160	211	243	82	744

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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	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	2	.0	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	3	.1	.2
9/10	.0	.0	.0	.0	.0	.0	.4	.7	.3	.0	14	.2	1.2
7/8	.0	.0	.0	.0	.0	.0	.5	.9	.7	.1	22	.0	2.3
6	.0	.0	.0	.0	.0	.2	.2	.7	.1	.0	12	.2	1.0
5	.0	.0	.0	.0	.0	.3	1.1	.9	.2	.0	25	.3	2.3
4	.0	.0	.0	.0	.1	.2	2.8	1.9	.4	.1	53	.3	5.2
3	.0	.0	.0	.0	.6	1.8	3.5	1.7	.5	.0	78	.3	7.8
2	.0	.0	.0	.0	.3	1.8	3.8	2.0	.3	.0	79	.4	7.8
1	.0	.0	.0	.0	1.3	2.8	3.9	1.5	.4	.0	96	.5	9.4
0	.0	.0	.0	.1	1.3	5.6	4.6	1.8	.1	.0	130	.4	13.1
-1	.0	.0	.0	.1	1.5	4.0	2.5	.6	.2	.0	86	.6	8.3
-2	.0	.0	.0	.3	2.4	2.8	2.2	.4	.1	.0	79	.5	7.7
-3	.0	.0	.1	.5	2.5	2.9	1.1	.6	.0	.0	75	.2	7.6
-4	.0	.0	.1	1.3	1.7	1.5	.7	.2	.0	.0	53	.2	5.3
-5	.0	.0	.1	1.2	1.9	1.6	.6	.0	.0	.0	52	.0	5.4
-6	.0	.0	.0	.3	.9	.4	.3	.0	.0	.0	19	.0	2.0
-7/-8	.0	.1	.6	2.1	1.9	.2	.2	.0	.0	.0	49	.0	5.1
-9/-10	.0	.0	.7	.7	.2	.2	.0	.0	.0	.0	18	.0	1.9
-11/-13	.0	.2	.6	.4	.0	.1	.0	.0	.0	.0	13	.0	1.3
-14/-16	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	4	.0	.4
-17/-19	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	9	5	22	70	100	254	276	136	35	3	964	42	922
PCT	.9	.5	2.3	7.3	10.6	26.3	28.6	14.1	3.6	.3	100.0	4.4	95.6

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	.3	.4	.0	.0	.0	.0	.6
1-2	.0	1.1	.6	.0	.0	.0	1.7
3-4	.0	1.8	1.8	.0	.0	.0	3.3
5-6	.0	.0	.3	.4	.3	.0	.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	.3	3.0	2.6	.7	.3	.0	6.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.0	.0	.0	.0	.8
1-2	.0	.4	.4	.0	.0	.0	.7
3-4	.0	.4	1.3	.0	.0	.0	1.8
5-6	.0	.0	.4	.7	.0	.0	1.1
7	.0	.0	.1	.2	.0	.0	.3
8-9	.0	.0	.0	1.1	.0	.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	.4	1.1	2.1	2.0	.0	.0	5.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.4	.3	.0	.0	.0	2.0
1-2	.0	1.6	1.2	.0	.0	.0	2.8
3-4	.0	.0	1.2	.0	.0	.0	1.2
5-6	.0	.0	.7	.4	.0	.0	1.1
7	.0	.0	.6	1.2	.0	.0	1.8
8-9	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	.3	1.0	.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	.4	3.0	4.0	2.5	1.0	.0	10.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.1	.0	.0	.0	.9
1-2	.0	1.3	.5	.0	.0	.0	1.8
3-4	.0	.1	2.1	1.1	.0	.0	3.3
5-6	.0	.4	.8	.7	.0	.0	1.8
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.4	.1	.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	2.6	3.9	2.2	.1	.0	8.7

PERIOD: (OVER-ALL) 1963-1970

OCTOBER

TABLE 18 (CONT)

AREA 0007 ANTICOSTI ISLAND
49.5N 62.5W

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	.4	.0	.0	.0	2.0
1-2	.0	.9	.6	.0	.0	.0	1.5
3-4	.0	.3	1.4	.5	.0	.0	2.2
5-6	.0	.0	1.9	.4	.0	.0	2.3
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	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	2.5	5.0	1.2	.0	.0	9.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.5	.7	.0	.0	.0	1.6
1-2	.0	.9	1.1	.0	.0	.0	2.0
3-4	.0	1.7	1.2	.5	.0	.0	3.4
5-6	.0	.0	1.0	.7	.0	.0	1.7
7	.0	.4	.4	1.8	.1	.0	2.6
8-9	.0	.0	.0	1.1	.0	.0	1.1
10-11	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.2	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.4	4.4	4.5	.3	.0	12.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.7	.0	.0	.0	2.3
1-2	.0	1.7	1.1	.0	.0	.0	2.7
3-4	.0	2.9	5.7	1.1	.0	.0	9.7
5-6	.0	.0	2.9	2.1	.0	.0	5.0
7	.0	.0	.7	1.4	1.7	.0	3.8
8-9	.0	.0	.7	2.0	.4	.0	3.1
10-11	.0	.0	.0	1.0	.4	.0	1.3
12	.0	.0	.0	.4	1.1	.0	1.4
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	.4	.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	.0	6.2	11.8	7.9	3.8	.4	30.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	1.1	.0	.0	.0	.0	1.4	
1-2	.0	1.1	1.1	.0	.0	.0	2.2	
3-4	.0	1.5	2.5	.4	.0	.0	4.3	
5-6	.0	.0	2.3	1.1	.1	.0	3.4	
7	.0	.0	.7	1.1	.0	.0	1.8	
8-9	.0	.0	.0	.4	.0	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.2	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	3.6	6.6	2.9	.3	.0	13.7	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	6.5	7.2	2.1	.0	.0	.0	15.8	
1-2	.0	8.6	6.5	.0	.0	.0	15.1	
3-4	.0	8.2	16.8	3.4	.0	.0	28.5	
5-6	.0	.3	10.0	6.2	.3	.0	16.8	
7	.0	.3	3.4	6.2	1.7	.0	11.7	
8-9	.0	.0	.7	5.2	.3	.0	6.2	
10-11	.0	.0	.0	2.1	1.4	.0	3.4	
12	.0	.0	.0	.3	1.4	.0	1.7	
13-16	.0	.0	.0	.0	.3	.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	.3	.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	6.5	24.7	39.5	23.4	5.5	.3	100.0	291

PERIOD: (OVER-ALL) 1950-1970

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	6.2	12.9	19.2	10.9	2.3	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	229	3
6-7	.5	1.4	3.9	4.4	5.3	4.4	2.3	.7	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	6
8-9	.0	.2	.0	1.2	2.8	.7	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	7
10-11	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	9
12-13	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	11
>13	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
INDET	6.5	2.1	2.3	1.6	1.2	.5	.7	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	3
TOTAL	57	72	110	80	93	29	18	10	3	1	0	0	0	0	0	0	0	0	0	433	4
PCT	13.2	16.6	25.4	18.5	12.2	6.7	4.2	2.3	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1928-1970
(OVER-ALL) 1875-1970

AREA 0007 ANTICOSTI ISLAND
49.5N 62.7W

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	6.0	1.4	3.9	.0	11.6	1.1	.0	20.7	1.1	.0	.0	.0	.0		.0	78.2
NE	11.9	3.2	5.5	.0	12.6	.4	4.0	29.2	4.0	.0	3.6	1.6	1.6		.0	60.1
E	20.9	1.9	5.3	.0	9.7	.0	1.9	39.8	2.9	.0	9.2	.0	5.8		.0	42.2
SE	14.4	.0	6.9	.0	8.8	1.9	.9	31.0	3.7	.0	12.0	1.9	1.9		.0	49.5
S	9.8	5.2	8.2	.0	1.6	.0	.0	24.8	1.3	.0	17.0	1.3	1.0		.0	54.6
SW	6.8	4.2	5.2	.0	1.6	.0	.0	17.8	.5	.0	5.2	.0	2.6		.0	73.8
W	.0	.4	1.1	.0	8.2	.7	.0	10.4	4.1	.0	.7	.0	.7		.7	83.3
NW	1.6	.4	.8	.0	7.1	.0	.0	9.5	3.6	.0	.8	.0	.0		.0	86.1
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	16.7	.0	.0		.0	83.3
TOT PCT	6.8	1.7	3.8	.0	7.6	.5	.6	19.7	2.9	.0	5.1	.5	1.3		.2	70.5
TOT OBS:	631															

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	6.7	.6	2.5	.0	6.7	.0	.6	16.6	1.8	.0	4.3	1.2	1.2		.0	74.8
06&09	8.0	2.9	5.8	.0	10.2	1.5	.0	26.3	2.9	.0	5.8	.0	.7		.0	64.2
12&15	6.4	3.7	4.3	.0	6.9	.0	1.1	20.7	2.7	.0	7.4	.5	1.1		.0	67.6
18&21	6.4	.0	2.6	.0	7.7	.6	.6	16.7	3.8	.0	3.8	.0	1.9		.6	73.1
TOT PCT	6.8	1.9	3.7	.0	7.8	.5	.6	19.9	2.8	.0	5.4	.5	1.2		.2	70.0
TOT OBS:	644															

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	3.1	5.4	2.0	.4	.0		11.4	15.9	9.0	19.3	11.0	18.2	10.8	11.2	9.5	13.1
NE	.1	2.3	4.8	2.4	.5	.0		10.1	17.4	7.9	8.0	10.0	11.4	11.5	14.4	9.7	9.5
E	.1	2.2	3.3	1.9	.5	.1		8.1	17.3	8.4	3.4	7.9	4.5	9.7	9.0	8.7	7.1
SE	.3	2.8	3.5	2.1	.2	*		9.0	16.1	14.1	7.4	7.7	6.8	7.9	9.0	6.8	8.9
S	.0	5.2	4.9	1.7	.1	.0		11.5	13.2	12.4	10.8	14.0	13.6	11.8	6.4	9.3	11.9
SW	.0	2.0	4.7	.7	.3	.0		7.7	14.9	7.2	10.2	8.2	4.5	9.5	8.5	4.3	9.5
W	.2	5.1	9.0	5.1	1.3	.6		21.4	19.1	20.5	21.6	20.8	21.0	15.3	19.7	30.2	26.8
NW	.4	4.6	9.6	3.3	1.6	.5		20.0	18.1	18.3	19.3	19.4	19.9	22.3	21.8	21.5	13.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0	2.1	.0	.9	.0	1.2	.0	.0	.0
TOT OBS	17	195	320	138	36	9	715		16.8	145	44	107	44	165	47	121	42
TOT PCT	2.4	27.3	44.8	19.3	5.0	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	1.2	5.0	4.3	.7	.2		11.4	15.9	11.4	13.1	10.8	10.4	
NE	1.0	3.7	4.3	.9	.1		10.1	17.4	7.9	10.4	12.1	9.7	
E	1.2	3.3	2.3	1.0	.3		8.1	17.3	7.3	7.0	9.6	8.3	
SE	1.2	3.5	3.0	1.1	.1		9.0	16.1	12.6	7.5	8.1	7.2	
S	1.3	7.3	2.5	.4	.0		11.5	13.2	12.0	13.9	10.6	10.0	
SW	.6	4.3	2.4	.2	.1		7.7	14.9	7.9	7.1	9.3	5.7	
W	1.5	7.8	7.9	3.5	.8		21.4	19.1	20.8	20.9	16.3	29.3	
NW	1.7	8.6	6.5	2.1	1.1		20.0	18.1	18.5	19.5	22.2	19.5	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.8						.8	.0	1.6	.7	.9	.0	
TOT OBS	75	311	237	72	20	715		16.8	189	151	212	163	
TOT PCT	10.5	43.5	33.1	10.1	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	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.6	2.1	24.3	50.3	17.5	2.1	2.1	16.3	100.0	189
06&09	.7	2.6	32.5	39.7	21.9	2.0	.7	15.7	100.0	151
12&15	.9	.5	25.9	41.0	22.6	8.5	.5	17.8	100.0	212
18&21	.0	1.2	27.6	47.9	14.7	6.7	1.8	17.2	100.0	163
TOT	6	11	195	320	138	36	9	16.8		715
PCT	.8	1.5	27.3	44.8	19.3	5.0	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	3.3	1.0	1.5	3.4		4.6
NE	1.7	.4	1.8	5.1		6.1
E	.2	.0	1.6	5.3		7.4
SE	.3	.3	1.1	6.8		7.3
S	.8	.6	3.6	7.3		6.8
SW	1.7	.4	1.2	3.9		5.8
W	6.0	4.6	6.5	6.9		4.9
NW	5.6	4.6	4.8	6.2		4.6
VAR	.0	.0	.0	.0		.0
CALM	.3	.0	.3	.8		6.2
TOT OBS	72	43	81	165	361	5.6
TOT PCT	19.9	11.9	22.4	45.7	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	.2	.0	.5	1.7	1.2	.3	.3	.3	.0	4.6	
NE	.6	.4	.3	1.3	1.8	1.2	.3	.2	.0	.0	5.0	
E	.3	.2	.3	.9	1.7	1.1	1.0	.3	.0	.0	1.4	
SE	1.0	.3	.6	1.6	1.7	.6	.3	.3	.3	.6	1.4	
S	.7	.0	.0	1.7	2.9	1.9	1.7	.1	.0	.7	2.6	
SW	.3	.0	.0	.6	1.5	.8	.0	.1	.0	.4	3.6	
W	.3	.0	.3	1.9	2.6	2.6	1.6	1.2	.0	1.0	12.5	
NW	.0	.0	.0	1.6	2.8	2.8	.3	.7	.3	.3	12.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.8	
TOT OBS	12	4	5	36	61	44	20	12	3	11	153	361
TOT PCT	3.3	1.1	1.4	10.0	16.9	12.2	5.5	3.3	.8	3.0	42.4	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	3.6	4.4	4.4	4.4	4.4	4.4	4.4	4.4
* OR >4000	5.8	7.4	7.4	7.4	7.4	7.4	7.4	7.4
* OR >3500	9.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
* OR >2000	17.3	23.0	24.4	24.7	24.9	24.9	24.9	24.9
* OR >1000	27.1	35.9	40.5	41.1	41.4	41.4	41.4	41.4
* OR >600	30.1	42.2	49.0	50.4	51.2	51.2	51.2	51.2
* OR >300	30.7	42.7	50.1	51.8	52.6	52.6	52.6	52.6
* OR >150	30.7	42.7	50.4	52.6	53.7	53.7	53.7	53.7
* OR > 0	30.7	43.0	51.2	53.7	55.3	57.0	57.8	57.8
TOTAL	112	157	187	196	202	208	211	211

TOTAL NUMBER OF OBS: 365 PCT FREQ NH <5/8: 42.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.8	8.8	6.6	6.9	6.9	2.9	4.9	8.1	41.5	3.4	407

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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	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.3	
<1/2	NO PCP	.0	.2	.4	.4	.7	.0	.0	.0	.0	.2	1.9	
	TOT %	.2	.2	.6	.4	.7	.0	.0	.0	.0	.2	2.2	
	PCP	.2	1.0	.1	.4	[illegible]	.8	.0	.2	.0	.0	2.5	
1/2<1	NO PCP	.0	.0	.2	.1	[illegible]	.4	.0	.2	.0	.0	1.6	
	TOT %	.2	1.0	.2	.5	1.[illegible]	.7	.0	.4	.0	.0	4.1	
	PCP	.2	.7	.3	.5	.0	.2	.3	.1	.0	.0	2.2	
1<2	NO PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.7	.3	.6	.1	.2	.3	.1	.0	.0	2.4	
	PCP	.6	.3	1.3	.8	.3	.2	.4	.4	.0	.0	4.5	
2<5	NO PCP	.4	.5	.2	.5	.8	.4	.5	.2	.0	.0	3.5	
	TOT %	1.1	.8	1.5	1.3	1.2	.7	.9	.6	.0	.0	7.9	
	PCP	1.1	.9	1.3	.8	1.7	.4	1.2	.9	.0	.0	8.3	
5<10	NO PCP	3.5	1.7	.9	1.4	2.3	1.6	4.1	4.2	.0	.3	19.5	
	TOT %	4.6	2.7	2.2	2.1	4.0	1.9	5.2	5.1	.0	.3	28.1	
	PCP	.2	*	.1	.2	.6	.3	.4	.2	.0	.0	2.1	
10+	NO PCP	5.0	4.7	3.3	3.4	4.1	3.9	14.7	13.6	.0	.5	53.1	
	TOT %	5.2	4.7	3.4	3.6	4.8	4.1	15.0	13.8	.0	.5	55.2	
	TOT OBS												629
	TOT PCT	11.5	10.1	8.2	8.4	11.8	7.6	21.4	20.0	.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
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
<1/2	4-10	.0	.2	.2	*	.4	.0	.0	.0	.0		.8	
	11-21	.2	*	.3	.3	.3	.0	.0	.0	.0		1.1	
	22+	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.2	.2	.6	.4	.7	.0	.0	.0	.0	.2	2.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.1	.1	.0	.3	.0		.5	
	11-21	.0	.5	.2	.2	1.0	.5	.0	.0	.0		2.3	
	22+	.2	.5	.1	.2	.0	.2	.0	.1	.0		1.2	
	TOT %	.2	.9	.2	.5	1.1	.7	.0	.4	.0	.0	3.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.2	.0	.0	.3	*	.0		.5	
	11-21	.2	.3	.0	.4	.1	.0	.0	.2	.0		1.2	
	22+	.0	.3	.3	.0	.0	.2	.0	.0	.0		.8	
	TOT %	.2	.7	.3	.5	.1	.2	.3	.2	.0	.0	2.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.1	.2	.3	.6	.9	.2	.2	*	.0		2.4	
	11-21	.5	.5	.2	.2	.0	.4	.2	.4	.0		2.3	
	22+	.4	.2	.9	.6	.3	.2	.5	.2	.0		3.2	
	TOT %	1.0	.8	1.4	1.4	1.2	.7	.8	.6	.0	.0	7.9	
	0-3	.3	.0	.2	.2	.0	.0	.1	.2	.0	.3	1.2	
5<10	4-10	1.0	.5	.7	.5	.9	.6	.8	.6	.0		5.6	
	11-21	1.7	1.3	.8	1.0	2.0	1.4	3.1	3.0	.0		14.2	
	22+	1.4	.8	.4	.8	1.0	.1	1.6	1.3	.0		7.3	
	TOT %	4.3	2.5	2.1	2.4	3.9	2.0	5.5	5.2	.0	.3	28.3	
	0-3	.2	.2	.0	.2	.0	.0	.1	.2	.0	.5	1.2	
10+	4-10	1.9	1.4	.9	1.4	2.7	1.2	3.5	3.3	.0		16.3	
	11-21	2.8	2.1	2.1	1.3	1.4	2.3	5.8	5.9	.0		23.8	
	22+	.6	1.5	.6	.8	.7	.5	5.4	4.0	.0		14.1	
	TOT %	5.5	5.1	3.6	3.6	4.8	4.1	14.8	13.4	.0	.5	55.4	
	TOT OBS												661
	TOT PCT	11.5	10.2	8.2	8.7	11.7	7.7	21.4	19.8	.0	.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	2.5	.0	1.3	8.8	11.3	12.5	3.8	2.5	1.3	3.8	47.5	52.5	80
06&09	8.0	.0	1.3	9.3	18.7	12.0	4.0	2.7	1.3	6.7	64.0	36.0	75
12&15	2.8	2.8	2.8	13.0	17.6	12.0	5.6	3.7	.9	.9	62.0	38.0	108
18&21	3.7	.9	.0	7.3	17.4	11.0	7.3	3.7	.0	3.7	55.0	45.0	109
TOT	15	4	5	36	61	44	20	12	3	13	213	159	372
PCT	4.0	1.1	1.3	9.7	16.4	11.8	5.4	3.2	.8	3.5	57.3	42.7	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	1.7	3.5	1.2	4.1	33.7	55.8	172
06&09	3.4	3.4	1.4	9.7	30.3	51.7	145
12&15	1.5	6.1	3.5	9.1	26.8	53.0	198
18&21	2.5	3.1	3.1	8.8	22.6	59.7	159
TOT	15	28	16	53	191	371	674
PCT	2.2	4.2	2.4	7.9	28.3	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	2.6	5.1	19.2	30.8	50.0	78
06&09	8.2	9.6	23.3	41.1	35.6	73
12&15	2.8	9.3	29.0	33.6	37.4	107
18&21	3.7	5.6	17.8	38.3	43.9	107
TOT	15	27	82	131	152	365
PCT	4.1	7.4	22.5	35.9	41.6	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
55/59	.0	.0	.0	.0	.0	.3	.3	.5	4	1.0
50/54	.0	.0	.0	.0	.3	.5	.3	.5	6	1.5
45/49	.0	.0	.3	.0	.3	.3	1.5	4.6	27	6.9
40/44	.0	.0	.0	.0	1.8	4.1	5.1	12.9	93	23.9
35/39	.0	.0	.0	1.3	3.6	5.7	9.0	8.0	108	27.8
30/34	.0	.0	.5	.5	2.1	5.1	6.2	5.7	78	20.1
25/29	.0	.0	.0	.8	1.8	3.9	1.3	6.4	55	14.1
20/24	.0	.0	.0	.0	.3	.5	1.0	2.6	17	4.4
15/19	.0	.0	.0	.0	.0	.3	.0	.0	1	.3
TOTAL	0	0	3	11	39	80	96	160	389	100.0
PCT	.0	.0	.8	2.8	10.0	20.6	24.7	41.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.2	.0	.0	.0	.3	.3	.0	.3	.0	.0
	.0	.0	.0	.3	.8	.0	.1	.1	.0	.3
	.0	.8	.3	2.8	2.2	.4	.2	.0	.0	.3
	1.9	1.4	2.6	3.0	4.5	3.0	5.8	1.8	.0	.0
	3.9	2.8	2.4	2.0	2.8	1.7	5.6	6.3	.0	.3
	3.9	2.3	.4	.7	.6	.8	5.9	5.5	.0	.0
	2.4	2.8	.8	.3	.1	.7	2.8	4.2	.0	.0
	.6	.0	.2	.3	.0	.0	1.5	1.7	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0
	12.9	10.1	6.7	9.3	11.2	6.9	22.0	20.2	.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	58	54	49	37	27	21	20	36.8	189
06&09	57	49	46	35	25	21	18	35.8	154
12&15	58	54	46	35	23	20	19	35.1	213
18&21	55	54	46	37	25	22	22	36.8	165
TOT	58	54	46	37	24	21	18	36.1	721

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	9.0	16.0	28.0	44.0	85	100
06&09	.0	1.1	2.3	28.1	26.1	44.3	86	88
12&15	.0	4.5	9.9	21.6	24.3	39.6	83	111
18&21	.0	5.2	17.5	17.5	21.6	38.1	82	9[illegible]
TOT	0	14	39	80	99	164	84	39[illegible]

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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	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	W FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	2	.0	.4
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.2	5	.2	.8
9/10	.0	.0	.0	.0	.0	.0	.4	.8	.6	.2	.0	10	.2	1.9
7/8	.0	.0	.0	.0	.0	.0	.4	.0	.2	.4	.0	5	.0	1.0
6	.0	.0	.0	.0	.0	.2	.2	.8	.2	.0	.0	7	.0	1.4
5	.0	.0	.0	.0	.0	.4	1.6	.8	.0	.0	.0	14	.4	2.3
4	.0	.0	.0	.0	.6	.4	1.0	1.4	.6	.0	.0	20	1.0	2.9
3	.0	.0	.0	.0	.2	1.0	2.0	.4	.4	.0	.0	20	.8	3.1
2	.0	.0	.0	.0	.4	2.1	3.3	1.6	.0	.0	.0	38	1.2	6.3
1	.0	.0	.0	.0	.0	2.9	2.7	.8	.0	.0	.0	33	1.0	5.5
0	.0	.0	.0	.0	.8	3.5	2.1	.4	.0	.0	.0	35	.4	6.4
-1	.0	.0	.2	.2	.8	2.9	1.2	.4	.0	.0	.0	29	.0	5.7
-2	.0	.0	.0	.2	1.8	2.7	1.6	.0	.0	.0	.0	32	.0	6.3
-3	.0	.0	.2	.8	2.1	2.5	.4	.0	.0	.0	.0	31	.2	5.9
-4	.0	.0	.2	2.5	3.3	2.7	.8	.0	.0	.0	.0	49	.2	9.4
-5	.0	.0	.2	1.4	2.5	.8	.6	.2	.0	.0	.0	29	.2	5.5
-6	.0	.0	.4	2.1	2.1	.8	.0	.0	.0	.0	.0	28	.0	5.5
-7/-8	.0	.0	1.0	4.3	1.6	1.0	.0	.2	.0	.0	.0	41	.0	8.0
-9/-10	.0	.8	2.5	2.5	1.4	.0	.0	.0	.0	.0	.0	37	.2	7.0
-11/-13	.0	2.5	2.5	.6	.4	.0	.0	.0	.0	.0	.0	31	.0	6.1
-14/-16	.4	1.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	11	.0	2.1
-17/-19	.2	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	4	.0	.8
-23/-25	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	4		40		93		93		12		2		30	482
		22		78		123		39		6		512		
PCT	.8	4.3	7.8	15.2	18.2	24.0	18.2	7.6	2.3	1.2	.4	100.0	5.9	94.1

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	.0	.0	.0	.0	.0	.0
1-2	.6	1.1	1.1	.0	.0	.0	2.9
3-4	.0	.0	2.1	1.0	.0	.0	3.1
5-6	.0	.0	.6	2.3	.0	.0	2.9
7	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.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	.6	1.1	4.4	3.3	.4	.0	9.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.6	.0	.0	.0	.0	1.1
1-2	.0	1.3	1.1	.0	.0	.0	2.4
3-4	.0	.0	2.6	.1	.0	.0	2.7
5-6	.0	.0	.9	1.1	.6	.0	2.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.7	.0	.0	.7
10-11	.0	.0	.0	.0	.7	.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	.6	1.9	4.6	2.0	1.3	.0	10.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.6	.0	.0	.0	1.0
1-2	.0	.4	.6	.0	.0	.0	1.0
3-4	.0	.0	.4	.6	.0	.0	1.0
5-6	.0	.0	.9	.6	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.6	.4	.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
TOT PCT	.0	.9	3.0	1.6	.0	.0	5.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	1.3	1.1	.0	.0	.0	2.4
3-4	.0	.0	.6	.6	.0	.0	1.1
5-6	.0	.0	1.7	1.9	.0	.0	3.6
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	.0	2.0	3.4	3.0	.0	.0	8.4

PERIOD: (OVER-ALL) 1963-1970 NOVEMBER AREA 0007 ANTICOSTI ISLAND 49.5N 62.7W

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	.6	.0	.0	.0	1.0
1-2	.0	3.1	.6	.0	.0	.0	3.7
3-4	.0	1.1	1.6	.0	.0	.0	2.7
5-6	.0	.4	.0	1.0	.0	.0	1.4
7	.0	.0	.0	.6	.0	.0	.6
8-9	.0	.0	.0	.6	.6	.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	.6	.0	.0	.0	.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	5.7	2.7	2.1	.6	.0	11.1

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	.0	.7	.6	.0	.0	.0	1.3
3-4	.0	.1	.9	.6	.0	.0	1.6
5-6	.0	.1	1.7	.0	.0	.0	1.9
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	.0	2.3	3.1	1.1	.0	.0	6.6

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	5.4	1.9	.0	.0	.0	7.3
3-4	.0	1.6	2.1	1.6	.0	.0	5.3
5-6	.0	.0	3.0	.6	.0	.0	3.6
7	.0	.0	1.1	1.9	.0	.0	3.0
8-9	.0	.0	.6	1.0	.9	.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	.6	.6	.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	.4	7.6	8.7	5.6	1.4	.0	23.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.6	.0	.0	.0	.0	.7	
1-2	.0	3.1	2.1	.0	.0	.0	5.3	
3-4	.0	1.1	4.0	.1	.0	.0	5.3	
5-6	.0	.0	3.9	2.3	.0	.0	6.1	
7	.0	.0	.6	1.6	.6	.0	2.7	
8-9	.0	.0	.0	.1	.3	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.6	.0	.6	
13-16	.0	.0	.6	.6	.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	.1	4.9	11.1	4.7	1.4	.0	22.3	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	5.0	4.5	1.1	.0	.0	.0	10.6	
1-2	.6	16.8	8.9	.0	.0	.0	26.3	
3-4	.0	3.9	14.0	4.5	.0	.0	22.3	
5-6	.0	.6	12.3	9.5	.6	.0	22.9	
7	.0	.0	2.2	5.0	.6	.0	7.8	
8-9	.0	.0	1.1	2.8	1.7	.0	5.6	
10-11	.0	.0	.0	.0	1.1	.0	1.1	
12	.0	.0	.0	.0	.6	.0	.6	
13-16	.0	.0	.6	1.1	.6	.0	2.2	
17-19	.0	.6	.0	.0	.0	.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	5.6	26.3	40.2	29.9	5.0	.0	100.0	179

PERIOD: (OVER-ALL) 1950-1970 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	1.7	15.7	16.2	9.2	3.9	.9	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	110	4
6-7	.0	2.6	3.1	9.2	1.3	3.9	1.3	.0	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	52	6
8-9	.0	.4	.4	.4	1.3	1.7	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	7
10-11	.0	.0	.0	.4	.4	.4	1.3	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	8	11
12-13	.0	.0	.4	.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	4.4	5.7	4.8	2.2	1.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	3
TOTAL	14	56	57	49	20	17	9	1	3	2	1	0	0	0	0	0	0	0	0	229	4
PCT	6.1	24.5	24.9	21.4	8.7	7.4	3.9	.4	1.3	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1922-1970

AREA 0007 ANTICOSTI ISLAND
49.5N 63.1W

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 RLWG	DUST SNOW	NO SIG WEA
N	3.8	.0	.0	.0	23.6	.0	.0	23.6	4.7	.0	.0	.0	.0	2.8		68.9
NE	.0	.0	.0	.0	17.2	.0	.0	17.2	1.6	.0	.0	.0	.0	.0		81.3
E	14.1	.0	.0	.0	14.1	5.1	5.1	33.3	19.2	.0	.0	.0	.0	.0		47.4
SE	3.7	.0	.0	.0	3.7	.0	.0	7.4	3.7	.0	.0	.0	.0	.0		88.9
S	8.6	.0	12.3	.0	9.9	.0	13.6	35.8	.0	.0	9.9	.0	.0	.0		54.3
SW	2.3	9.1	6.8	.0	9.1	.0	2.3	27.3	18.2	.0	.0	.0	.0	.0		54.5
W	.0	.0	1.5	2.0	10.7	1.5	.0	15.6	8.3	.0	1.5	.0	.0	.0		74.6
NW	.0	.0	.0	.0	20.8	.5	.0	21.3	4.9	.0	.5	.0	.0	.5		72.7
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		.0
TOT PCT	3.0	.5	2.0	.5	15.2	1.0	2.0	22.3	7.1	.0	1.5	.0	.0	.5		68.5
TOT OBS:	197															

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 RLWG	DUST SNOW	NO SIG WEA
00&03	3.8	1.9	1.9	.0	13.5	.0	1.9	21.2	13.5	.0	1.9	.0	.0	.0		63.5
06&09	.0	.0	2.0	2.0	16.3	2.0	2.0	24.5	2.0	.0	2.0	.0	.0	.0		71.4
12&15	.0	.0	2.4	.0	9.8	.0	.0	12.2	9.8	.0	2.4	.0	.0	.0		75.6
18&21	7.0	.0	1.8	.0	19.3	1.8	3.5	28.1	3.5	.0	.0	.0	.0	1.8		66.7
TOT PCT	3.0	.5	2.0	.5	15.1	1.0	2.0	22.1	7.0	.0	1.5	.0	.0	.5		68.8
TOT OBS:	199															

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	.0	5.3	6.3	2.7	.7	.0		15.0	16.0	12.8	21.9	12.5	16.7	15.5	50.0	13.0	21.4
NE	.0	2.3	4.3	.7	.9	.5		8.7	18.5	15.3	12.5	6.8	16.7	10.1	.0	4.3	.0
E	.0	1.3	2.9	1.7	3.5	.0		9.4	25.7	12.2	.0	12.5	.0	8.9	8.3	5.8	14.3
SE	.0	.7	2.1	.1	.2	.0		3.1	14.7	2.0	3.1	5.2	.0	3.0	8.3	2.4	.0
S	.3	2.8	4.0	2.3	.5	.0		9.9	16.3	7.1	9.4	11.5	.0	13.7	.0	11.1	.0
SW	.6	1.6	2.4	.9	.0	.0		5.6	14.4	8.2	3.1	4.2	.0	8.3	.0	4.3	.0
W	.9	5.3	5.6	7.4	3.3	1.3		23.8	22.0	21.4	31.3	19.3	33.3	29.2	16.7	27.9	39.3
NW	.0	7.6	11.5	3.6	1.6	.1		24.4	17.0	20.9	18.8	28.1	33.3	17.3	16.7	31.3	25.0
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
TOT OBS	4	58	84	42	23	4	215		18.7	49	8	48	3	42	6	52	7
TOT PCT	1.9	27.0	39.1	19.5	10.7	1.9		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	1.3	8.4	2.9	2.1	.3		15.0	16.0	14.0	12.7	19.8	14.0
NE	.9	4.5	1.2	1.2	.9		8.7	18.5	14.9	7.4	8.9	3.8
E	.5	2.0	2.7	4.3	.0		9.4	25.7	10.5	11.8	8.9	6.8
SE	.5	2.2	.1	.3	.0		3.1	14.7	2.2	4.9	3.6	2.1
S	2.1	3.5	3.4	.9	.0		9.9	16.3	7.5	10.8	12.0	9.7
SW	.8	3.1	.7	.9	.0		5.6	14.4	7.5	3.9	7.3	3.8
W	2.2	6.5	8.5	4.4	2.2		23.8	22.0	22.8	20.1	22.4	29.2
NW	1.5	12.1	7.6	2.6	.7		24.4	17.0	20.6	28.4	17.2	30.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.0						.0	.0	.0	.0	.0	.0
TOT OBS	21	91	58	36	9	215		18.7	57	51	48	59
TOT PCT	9.8	42.3	27.0	16.7	4.2		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	.0	.0	26.3	45.6	15.8	10.5	1.8	18.8	100.0	57
06&09	.0	2.0	23.5	47.1	13.7	11.8	2.0	18.8	100.0	51
12&15	.0	4.2	31.3	35.4	16.7	8.3	4.2	17.6	100.0	48
18&21	.0	1.7	27.1	28.8	30.5	11.9	.0	19.3	100.0	59
TOT	0	4	58	84	42	23	4	18.7		215
PCT	.0	1.9	27.0	39.1	19.5	10.7	1.9		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	2.9	1.9	1.9	7.5		5.7
NE	5.1	.0	1.0	1.0		2.3
E	.7	.0	.0	6.1		7.1
SE	.0	.0	1.0	1.9		7.3
S	.0	.7	1.7	5.3		6.8
SW	1.2	1.5	.2	2.4		5.3
W	7.3	2.7	4.4	10.7		5.1
NW	7.0	1.9	8.3	13.6		5.5
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	25	9	19	50	103	5.5
TOT PCT	24.3	8.7	18.4	48.5	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	1.0	.0	.0	.7	4.1	1.5	.7	.0	.0	.0	6.3	
NE	.0	.0	.0	.2	.2	.2	.2	.0	.0	.0	6.1	
E	.0	1.0	1.0	1.9	.7	1.0	.0	.5	.0	.0	.7	
SE	.0	.0	.0	.0	1.5	1.0	.0	.5	.0	.0	.0	
S	.0	.0	.0	.0	3.4	2.7	.0	.0	.0	.0	1.7	
SW	.0	.0	.0	1.0	.2	1.5	.0	.0	.0	.0	2.7	
W	.7	.0	.0	3.4	4.6	1.5	1.0	1.0	.0	.0	12.9	
NW	1.2	.0	.0	2.4	9.5	4.4	1.9	1.0	.0	.0	10.4	
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	3	1	1	10	25	14	4	3	0	0	42	103
TOT PCT	2.9	1.0	1.0	9.7	24.3	13.6	3.9	2.9	.0	.0	40.8	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	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
= OR >3500	5.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
= OR >2000	17.5	19.4	20.4	20.4	20.4	20.4	20.4	20.4
= OR >1000	34.0	41.7	44.7	44.7	44.7	44.7	44.7	44.7
= OR >600	37.9	48.5	52.4	53.4	54.4	54.4	54.4	54.4
= OR >300	37.9	48.5	52.4	54.4	55.3	55.3	55.3	55.3
= OR >150	37.9	49.5	53.4	55.3	56.3	56.3	56.3	56.3
= OR > 0	37.9	49.5	54.4	56.3	57.3	59.2	59.2	59.2
TOTAL	39	51	56	48	59	61	61	61

TOTAL NUMBER OF OBS: 103 PCT FREQ NH <5/8: 40.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
11.7	9.4	7.8	4.7	3.1	6.3	3.1	5.5	46.9	1.6	128

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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	.5	.0	1.0	.0	.4	1.1	.0	.0	3.0	
<1/2	NO PCP	.0	.0	.0	.0	1.0	.5	.0	.0	.0	.0	1.5	
	TOT %	.0	.0	.5	.0	2.0	.5	.4	1.1	.0	.0	4.5	
	PCP	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
1/2<1	NO PCP	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	1.0	
	PCP	.0	.5	.5	.0	.4	.8	1.3	1.6	.0	.0	5.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	
	TOT %	.0	.5	.5	.0	.4	.8	1.8	1.6	.0	.0	5.5	
	PCP	1.0	.0	1.8	.3	.0	.0	.5	.5	.0	.0	4.0	
2<5	NO PCP	.0	.0	.5	.5	.4	.1	1.5	1.0	.0	.0	4.0	
	TOT %	1.0	.0	2.3	.8	.4	.1	2.0	1.5	.0	.0	8.0	
	PCP	1.8	.8	.5	.0	2.3	.9	.5	.5	.0	.0	6.5	
5<10	NO PCP	1.9	1.5	2.4	1.0	.9	.5	2.9	.5	.0	.0	11.6	
	TOT %	9.6	2.3	2.9	1.0	3.1	.8	3.4	1.0	.0	.0	18.1	
	PCP	.4	.1	.0	.0	.0	.9	1.4	1.6	.0	.0	4.0	
10+	NO PCP	8.3	5.2	3.1	1.6	4.3	2.9	16.8	16.6	.0	.0	58.8	
	TOT %	8.7	5.3	3.1	1.6	4.3	3.4	18.2	18.2	.0	.0	62.8	
	TOT OBS												199
	TOT PCT	13.8	8.0	9.8	3.4	10.2	5.5	25.8	23.5	.0	.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
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.5	.0	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	1.0	.0	.0	.5	.0		1.5	
	22+	.0	.0	.5	.0	.5	.5	.4	.6	.0		2.5	
	TOT %	.0	.0	.5	.0	2.0	.5	.4	1.1	.0	.0	4.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.5	.0	.5	.0	.0	.0	.0	.0	.0		1.0	
	TOT %	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	1.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.5	.0	.4	.2	.4	.5	.0		2.0	
	11-21	.0	.5	.0	.0	.0	.5	.0	1.0	.0		2.0	
	22+	.0	.0	.0	.0	.0	.0	1.4	.1	.0		1.5	
	TOT %	.0	.5	.5	.0	.4	.7	1.7	1.6	.0	.0	5.5	
	0-3	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0	.5	
2<5	4-10	1.0	.0	.0	.0	.0	.0	.0	.5	.0		1.5	
	11-21	.0	.0	.5	.5	.0	.0	1.5	1.5	.0		4.0	
	22+	.0	.0	1.7	.2	.0	.0	.5	.0	.0		2.5	
	TOT %	1.0	.0	2.2	.7	.4	.1	2.0	2.0	.0	.0	8.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	4-10	1.7	.2	.5	.0	.5	.0	.0	.0	.0		3.0	
	11-21	.7	.9	1.0	.9	1.1	.7	1.0	.1	.0		6.5	
	22+	1.6	1.1	1.4	.1	1.5	.0	2.4	.9	.0		9.0	
	TOT %	4.1	2.2	2.9	1.0	3.1	.7	3.4	1.0	.0	.0	18.4	
	0-3	.0	.0	.0	.0	.0	.5	1.0	.0	.0	.0	1.5	
10+	4-10	1.7	1.7	.4	.7	1.6	1.0	5.3	6.3	.0		18.9	
	11-21	5.7	2.4	1.2	.9	2.1	1.4	3.5	7.7	.0		24.9	
	22+	1.1	1.1	1.5	.0	.5	.5	8.2	4.0	.0		16.9	
	TOT %	8.6	5.2	3.1	1.6	4.2	3.4	18.0	18.0	.0	.0	62.2	
	TOT OBS												201
	TOT PCT	14.2	8.0	9.7	3.4	10.1	5.5	25.5	23.8	.0	.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	3.8	.0	.0	3.8	30.8	3.8	3.8	3.8	.0	.0	50.0	50.0	26
06&09	8.3	4.2	.0	12.5	16.7	8.3	4.2	8.3	.0	.0	62.5	37.5	24
12&15	.0	.0	.0	7.4	25.9	25.9	3.7	.0	.0	.0	63.0	37.0	27
18&21	.0	.0	3.2	12.9	19.4	12.9	3.2	.0	.0	.0	51.6	48.4	31
TOT	3	1	1	10	25	14	4	3	0	0	61	47	108
PCT	2.8	.9	.9	9.3	23.1	13.0	3.7	2.8	.0	.0	56.5	43.5	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	3.7	.0	9.6	11.1	20.4	59.3	54
06&09	6.1	.0	10.2	6.1	16.3	61.2	49
12&15	4.7	2.3	.0	.0	25.6	67.4	43
18&21	5.3	1.8	9.3	14.0	12.3	51.4	57
TOT	10	2	11	17	37	126	203
PCT	4.9	1.0	5.4	8.4	18.2	62.1	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	4.5	4.5	9.1	50.0	40.9	22
06&09	8.3	12.5	25.0	37.5	37.5	24
12&15	.0	3.8	7.7	57.7	34.6	26
18&21	.0	3.2	25.8	25.8	48.4	31
TOT	3	6	18	43	42	103
PCT	2.9	5.8	17.5	41.7	40.8	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
55/59	.0	.0	.0	.0	1.0	.0	.0	.0	1	1.0
40/44	.0	.0	.0	.0	.0	.0	1.0	2.0	3	2.9
35/39	.0	.0	.0	.0	1.0	.0	3.9	8.8	14	13.7
30/34	.0	.0	1.0	1.0	1.0	4.9	6.9	12.7	28	27.5
25/29	.0	.0	1.0	2.0	2.0	4.9	4.9	7.8	23	22.5
20/24	.0	.0	1.0	.0	2.9	3.9	2.9	5.9	17	16.7
15/19	.0	.0	.0	.0	.0	.0	4.9	6.9	12	11.8
10/14	.0	.0	.0	.0	.0	.0	.0	3.9	4	3.9
TOTAL	0	0	3	3	8	14	25	49	102	100.0
PCT	.0	.0	2.9	2.9	7.8	13.7	24.5	48.0		

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	.0
.0	.0	1.7	.2	.7	.2	.0	.0	.0	.0
.7	.0	4.4	2.5	1.0	.2	3.4	1.5	.0	.0
2.0	1.0	2.0	.7	5.1	2.9	5.4	8.3	.0	.0
4.2	1.7	1.0	.2	.7	.2	5.4	9.1	.0	.0
5.6	1.0	1.7	.2	.0	1.2	4.2	2.7	.0	.0
2.2	1.2	.0	.0	.0	.0	4.7	3.7	.0	.0
1.5	.2	.0	.0	.0	.0	.7	1.5	.0	.0
16.2	5.1	10.8	3.9	7.6	4.9	24.8	26.7	.0	.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	41	40	37	27	10	6	6	26.1	56
06&09	49	48	39	27	13	10	10	27.1	51
12&15	37	36	31	28	12	10	10	29.0	47
18&21	30	49	39	28	12	3	3	27.0	58
TOT	57	51	41	28	12	5	3	27.2	212

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	11.1	3.7	18.5	29.6	37.0	83	27
06&09	.0	.0	14.8	7.4	22.2	55.6	88	27
12&15	.0	15.0	5.0	10.0	30.0	40.0	83	20
18&21	.0	.0	7.1	17.9	17.9	57.1	88	28
TOT	0	6	8	14	25	49	86	102

DECEMBER

PERIOD: (PRIMARY) 1964-1970
(OVER-ALL) 1922-1970

TABLE 17

AREA 0007 ANTICOSTI ISLAND
49.5N 63.1W

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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.3	.6	5	.6	2.5
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	1	.0	.6
3	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	2	.0	1.3
2	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.6	.6	.0	6	.0	3.8
1	.0	.0	.0	.0	.0	.0	.0	.6	1.9	.6	.0	.0	5	.0	3.1
0	.0	.0	.0	.0	.0	.0	.0	1.3	3.8	.0	.0	.0	8	.0	5.0
-1	.0	.0	.0	.0	.0	.0	.0	1.3	1.3	.0	.0	.0	4	.0	2.5
-2	.0	.0	.0	.0	.0	.0	.0	2.5	4.4	.0	.0	.0	11	.0	6.9
-3	.0	.0	.0	.0	.0	.0	.0	1.3	.6	.0	.0	.0	3	.0	1.9
-4	.0	.0	.0	.0	.0	.0	.6	3.8	1.3	1.3	.0	.0	11	.0	6.9
-5	.0	.0	.0	.0	.0	.0	2.5	3.1	.6	.0	.0	.0	10	.0	6.3
-6	.0	.0	.0	.0	.0	.0	1.3	1.3	.6	.0	.0	.0	5	.0	3.1
-7/-8	.0	.0	.0	.0	.6	1.3	5.6	1.3	1.3	.0	.0	.0	16	.6	9.4
-9/-10	.0	.0	.0	.0	.0	1.9	5.0	1.9	.0	.0	.0	.0	14	.0	8.8
-11/-13	.0	.0	.0	.0	4.4	5.0	1.9	.6	.0	.0	.0	.0	19	.0	11.9
-14/-16	.0	.0	.0	1.9	5.6	3.1	1.3	.0	.0	.0	.0	.0	19	.0	11.9
-17/-19	.0	.0	.0	1.9	2.5	.0	.0	.0	.0	.0	.0	.0	7	.0	4.4
-20/-22	.0	.0	.6	1.3	.0	.0	.6	.0	.0	.0	.0	.0	4	.0	2.5
-23/-25	.0	.6	3.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	5.0
-26/-30	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.6
<-30	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.6
TOTAL	1		8		21		30		91		3			2	158
		1		9		18		30		7		1	160		
PCT	.6	.6	5.0	5.6	13.1	11.3	18.8	18.8	19.4	4.4	1.9	.6	100.0	1.3	98.8

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	.0	2.1	.0	.0	.0	.0	2.1
1-2	.0	4.2	2.1	.0	.0	.0	6.3
3-4	.0	.0	4.2	.0	.0	.0	4.2
5-6	.0	2.4	2.1	.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	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.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	8.7	8.4	.0	.0	.0	17.2

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	.6	.3	.0	.0	.0	.9
3-4	.0	.0	.6	.0	.0	.0	.6
5-6	.0	.0	1.5	.0	.0	.0	1.5
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	.6	2.4	.0	.0	.0	3.0

F

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	2.1	.0	.0	.0	2.1
5-6	.0	.0	.9	.0	2.1	.0	3.0
7	.0	.0	.0	1.2	2.4	.0	3.6
8-9	.0	.0	.0	.0	1.2	.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	.0	3.0	1.2	5.7	.0	9.9

SE

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	.0	.3	.0	.0	.0	.3
3-4	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.3	.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	1.2	.6	.0	.3	.0	2.1

PERIOD: (OVER-ALL) 1963-1970

DECEMBER

TABLE 18 (CONT)

AREA 0007 ANTICOSTI ISLAND
49.5N 63.1W

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	1.2	.0	.0	.0	.0	1.2
1-2	.0	2.4	2.1	.0	.0	.0	4.5
3-4	.0	.9	3.0	.0	.0	.0	3.9
5-6	.0	.0	.9	1.2	.0	.0	2.1
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	4.5	6.0	2.4	.0	.0	13.0

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	.0	.0	.0	.0	.0	.0
3-4	.0	.3	1.5	.0	.0	.0	1.8
5-6	.0	.0	1.5	.0	.0	.0	1.5
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	.3	3.0	.0	.0	.0	3.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	.0	.0	.0	.0	.0	1.2
1-2	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	2.4	3.9	1.2	.0	.0	7.5
5-6	.0	.0	1.2	4.5	.0	.0	5.7
7	.0	.0	.0	2.1	.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	1.2	.0	1.2
20-22	.0	.0	.0	.0	.0	1.2	1.2
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	1.2	3.6	5.1	7.8	1.2	1.2	20.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.3	.0	.0	.0	.0	.3	
1-2	.0	9.6	.0	.0	.0	.0	9.6	
3-4	.0	1.2	9.6	1.2	.0	.0	12.0	
5-6	.0	.0	6.3	1.5	.0	.0	7.8	
7	.0	.0	1.2	.3	.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	11.1	17.2	3.0	.0	.0	31.3	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	2.4	4.8	.0	.0	.0	.0	7.1	
1-2	.0	17.9	4.8	.0	.0	.0	22.6	
3-4	.0	4.8	25.0	2.4	.0	.0	32.1	
5-6	.0	2.4	14.3	7.1	2.4	.0	26.2	
7	.0	.0	1.2	4.8	2.4	.0	8.3	
8-9	.0	.0	.0	.0	1.2	.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	1.2	.0	1.2	
20-22	.0	.0	.0	.0	.0	1.2	1.2	
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	2.4	29.8	45.2	14.3	7.1	1.2	100.0	84

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	4.0	17.2	18.2	13.1	5.1	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	3
6-7	.0	.0	7.1	7.1	3.0	2.0	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	6
8-9	.0	.0	.0	3.0	3.0	1.0	.0	1.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
10-11	.0	.0	.0	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	15
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	1.0	1.0	5.1	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	3
TOTAL	5	18	30	25	11	4	0	3	1	1	1	0	0	0	0	0	0	0	0	99	5
PCT	5.1	18.2	30.3	25.3	11.1	4.0	.0	3.0	1.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1921-1971
(OVER-ALL) 1864-1971

AREA 0007 ANTICOSTI ISLAND
49.5N 62.9W

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	4.2	1.6	1.8	.0	7.7	.5	.1	15.1	2.2	.4	2.8	.3	1.2		.4	77.6
NE	9.9	1.1	3.1	.4	10.0	.7	.4	24.5	2.6	.2	6.6	.8	.8		.0	64.6
E	11.1	1.2	4.0	.0	11.7	.8	.6	28.8	4.4	.1	11.0	.4	1.1		.0	54.3
SE	10.7	.8	2.2	.7	7.1	.2	.1	21.1	3.2	.2	10.8	.6	1.3		.0	62.9
S	9.2	1.6	2.9	.0	5.6	.7	1.2	19.4	2.4	.2	11.0	.5	1.8		.0	64.7
SW	4.8	2.4	1.7	.4	4.6	.0	.2	13.8	2.9	.1	6.1	.6	2.5		.0	74.0
W	1.6	.6	.7	.2	7.0	.2	.0	10.2	2.7	.1	3.2	.3	1.7		.1	81.6
NW	1.7	.9	1.0	.0	6.1	.5	.0	10.1	1.9	.1	3.6	.4	1.1		.1	82.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.4	.0	.3	.0	.0	.0	.0	.6	.0	.3	10.3	.4	2.6		.0	77.4
TOT PCT	5.2	1.1	1.8	.1	7.2	.4	.2	15.6	2.5	.2	6.5	.4	1.4		.1	73.2
TOT OBS:	6912															

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	1.2	1.7	.1	6.2	.3	.2	14.9	3.1	.3	7.0	.5	1.2		*	72.9
06&09	5.5	1.4	1.9	.2	7.3	.3	.2	16.6	4.0	.4	4.5	.6	.8		.0	73.3
12&15	5.0	1.0	2.1	.2	7.2	.4	.1	15.6	2.7	.1	7.9	.3	1.4		.0	72.0
18&21	4.9	.8	1.7	.0	7.5	.4	.4	14.8	1.7	.0	5.7	.6	2.1		.3	74.8
TOT PCT	5.2	1.1	1.9	.1	7.2	.4	.2	15.7	2.5	.2	6.5	.4	1.4		.1	73.2
TOT OBS:	7257															

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	2.9	4.1	1.5	.4	.1		9.6	14.1	9.1	13.1	9.9	17.0	10.5	15.3	6.2	8.5
NE	.4	2.4	2.6	1.4	.3	.2		7.4	15.5	6.2	7.9	6.4	9.6	8.9	8.4	6.4	4.6
E	.6	3.0	3.5	1.7	.6	*		9.4	15.9	8.9	6.8	9.1	3.9	10.5	9.8	9.9	10.2
SE	.6	3.7	3.5	1.2	.2	.1		9.3	13.9	10.9	12.3	7.9	6.2	7.1	9.1	8.9	9.9
S	.4	4.2	4.2	1.3	.2	.0		10.3	13.7	11.7	10.3	9.4	14.8	10.5	7.6	9.5	8.4
SW	.5	4.3	4.0	1.0	.3	.0		10.0	13.5	8.5	9.3	11.3	10.8	10.9	11.2	10.2	8.6
W	1.1	6.5	8.4	4.3	1.3	.3		21.8	16.6	23.0	18.7	24.3	13.2	19.4	19.2	25.5	25.1
NW	.7	5.2	8.2	4.1	1.3	.4		19.9	16.7	18.7	19.9	17.4	14.5	20.3	18.2	21.1	24.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0	2.9	1.7	4.3	1.7	1.9	1.2	2.3	.7
TOT OBS							7646		15.1	1593	570	1041	503	1578	591	1203	567
TOT PCT	7.2	37.1	38.6	16.5	4.6	1.0		100.0		100.0	100.0	100.0	91.7	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	1.7	4.4	2.4	1.0	.2		9.6	14.1	10.1	11.1	11.2	6.7
NE	1.3	3.1	1.9	.9	.2		7.4	15.5	6.6	7.1	8.9	6.1
E	1.9	3.8	2.6	1.0	.1		9.4	15.9	8.5	8.1	10.4	9.7
SE	2.3	4.3	2.2	.4	.1		9.3	13.9	11.2	8.2	7.6	9.2
S	2.0	5.4	2.4	.4	.1		10.3	13.7	11.2	10.4	9.8	9.4
SW	2.1	5.1	2.2	.7	*		10.0	13.5	8.8	11.1	11.0	9.8
W	3.5	8.7	6.5	2.6	.5		21.8	16.6	21.9	22.7	19.6	25.2
NW	2.5	7.8	6.4	2.3	.8		19.9	16.7	19.0	17.5	19.6	22.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.3						2.3	.0	2.7	3.8	1.8	1.8
TOT OBS						7646		15.1	2163	1944	2169	1770
TOT PCT	19.6	42.6	26.5	9.2	2.1		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	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.7	5.0	31.5	41.0	15.3	3.5	.9	14.7	100.0	2163
06&09	3.8	5.9	35.5	36.5	11.7	6.1	.6	14.0	100.0	1544
12&15	1.8	5.0	32.5	38.5	17.0	3.6	1.7	15.2	100.0	2169
18&21	1.8	4.4	30.3	36.8	19.5	6.6	.6	16.2	100.0	1770
TOT								15.1		7646
PCT	2.3	4.9	32.1	38.6	16.5	4.6	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	2.9	.7	1.7	3.1		4.7
NE	1.4	.5	1.1	3.5		5.6
E	1.4	.5	1.7	6.6		6.6
SE	1.2	.9	1.7	4.8		6.2
S	1.7	.8	2.4	4.0		5.6
SW	2.9	1.5	2.3	3.1		4.8
W	8.9	4.0	5.7	5.1		4.2
NW	7.6	3.0	4.8	5.9		4.2
VAR	.0	.0	.0	.0		.0
CALM	1.1	.6	.5	.6		3.2
TOT OBS					3788	4.9
TOT PCT	29.0	12.5	21.9	36.6	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	.3	.1	.1	.6	1.0	.7	.2	.1	.3	.3	4.9	
NE	.5	.1	.4	.5	1.2	.6	.2	.2	.1	*	2.6	
E	1.0	.3	.4	1.2	1.6	1.2	.4	.2	.3	.4	5.1	
SE	1.1	.1	.2	.6	1.4	.8	.2	.3	.1	.4	5.2	
S	.6	*	.1	.8	1.3	1.0	.4	.1	.2	.4	5.8	
SW	.3	*	.2	.7	1.3	.8	.1	.1	.1	.3	5.9	
W	.5	.1	.2	1.3	2.7	1.6	.7	.4	.1	.5	15.6	
NW	.6	.1	.1	1.0	2.8	2.1	.6	.3	.2	.5	13.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	*	.2	.2	.1	*	*	.1	2.0	
TOT OBS												3788
TOT PCT	5.1	.8	1.7	6.7	13.4	9.1	2.9	1.7	1.5	3.0	54.0	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	2.5	4.0	4.5	4.5	4.5	4.5	4.5	4.5
* OR >5000	3.8	5.7	6.2	6.2	6.2	6.2	6.2	6.2
* OR >3500	5.7	8.4	9.0	9.0	9.1	9.1	9.1	9.1
* OR >2000	10.7	16.1	17.7	18.0	18.0	18.1	18.1	18.1
* OR >1000	16.2	25.9	30.2	30.9	31.3	31.4	31.5	31.5
* OR >600	18.5	30.3	36.1	37.3	38.1	38.2	38.3	38.3
* OR >300	19.1	31.3	37.4	38.9	39.8	40.0	40.0	40.0
* OR >150	19.1	31.5	37.8	39.4	40.4	40.7	40.8	40.8
* OR > 0	19.2	31.7	38.3	40.6	42.4	44.0	45.6	46.0

TOTAL NUMBER OF OBS: 3907 PCT FREQ NH <5/8: 54.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
18.1	13.7	10.2	6.4	4.1	4.0	4.7	6.7	27.7	4.5	4268

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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	.2	.2	.4	.1	.1	*	.2	.1	.0	.0	1.4	
<1/2	NO PCP	.1	.1	.5	.6	.7	.9	.9	.2	.0	.1	2.9	
	TOT %	.3	.3	.9	.8	.8	.9	.4	.3	.0	.1	4.3	
	PCP	.2	.3	.3	.4	.1	.1	.3	.1	.0	.0	1.8	
1/2<1	NO PCP	*	.1	.2	.3	.2	.2	.2	.2	.0	*	1.5	
	TOT %	.2	.4	.6	.7	.3	.3	.4	.3	.0	*	3.3	
	PCP	.3	.4	.4	.2	.3	.1	.3	.6	.0	.0	2.5	
1<2	NO PCP	*	*	.1	.1	.1	.1	.1	.1	.0	.1	.7	
	TOT %	.3	.4	.5	.3	.4	.3	.4	.7	.0	.1	3.2	
	PCP	.3	.5	.9	.5	.3	.2	.5	.5	.0	*	3.6	
2<5	NO PCP	.3	.2	.6	.5	.5	.4	.6	.6	.0	.2	3.8	
	TOT %	.6	.6	1.5	1.1	.8	.6	1.1	1.1	.0	.2	7.5	
	PCP	.5	.4	.7	.6	.8	.6	.8	.7	.0	*	4.9	
5<10	NO PCP	2.3	1.6	2.1	2.5	3.1	3.2	5.6	4.3	.0	.4	25.2	
	TOT %	2.8	2.0	2.8	3.1	4.0	3.8	6.3	5.0	.0	.5	30.1	
	PCP	.1	.1	.2	.1	.2	.2	.3	.3	.0	.0	1.6	
10+	NO PCP	4.9	3.0	3.3	3.5	3.8	4.5	13.3	12.3	.0	1.5	50.1	
	TOT %	5.1	3.1	3.5	3.7	4.0	4.7	13.6	12.6	.0	1.5	51.7	
	TOT OBS												6912
	TOT PCT	9.2	6.9	9.7	9.5	10.2	10.0	22.2	20.0	.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
	0-3	*	*	*	.1	*	*	.1	.1	.0	.1	.5	
<1/2	4-10	*	.1	.2	.3	.4	.2	.1	.1	.0		1.3	
	11-21	.1	.1	.1	.3	.4	.1	.1	.1	.0		1.2	
	22+	.2	.2	.5	.1	.1	.1	.1	.1	.0		1.3	
	TOT %	.3	.3	.9	.8	.9	.3	.4	.3	.0	.1	4.3	
	0-3	.0	.0	.0	.1	.0	*	*	*	.0	*	.2	
1/2<1	4-10	*	.1	.1	.2	.1	.1	.1	.1	.0		.8	
	11-21	.1	.1	.2	.3	.2	.1	.1	.2	.0		1.3	
	22+	.1	.2	.2	.1	*	.1	.2	.1	.0		1.1	
	TOT %	.2	.4	.6	.7	.3	.3	.4	.4	.0	*	3.3	
	0-3	.0	.0	.0	*	*	.0	*	.0	.0	.1	.1	
1<2	4-10	.1	.1	.1	.1	.2	.1	.1	.1	.0		.9	
	11-21	.1	.2	.3	.1	.1	.1	.1	.2	.0		1.2	
	22+	*	.1	.1	.1	.1	*	.2	.3	.0		1.1	
	TOT %	.3	.4	.5	.3	.4	.3	.4	.7	.0	.1	3.3	
	0-3	*	.0	*	*	*	*	*	*	.0	.2	.4	
2<5	4-10	.1	.1	.3	.3	.3	.2	.3	.4	.0		2.0	
	11-21	.3	.3	.5	.3	.3	.2	.4	.6	.0		2.9	
	22+	.1	.2	.6	.4	.2	.1	.4	.2	.0		2.3	
	TOT %	.6	.6	1.5	1.1	.8	.6	1.1	1.2	.0	.2	7.6	
	0-3	.2	.1	.2	.2	.2	.2	.4	.3	.0	.5	2.1	
5<10	4-10	.8	.6	.9	1.1	1.5	1.3	1.4	1.1	.0		8.8	
	11-21	1.1	.8	1.1	1.4	1.6	1.8	2.8	2.0	.0		12.6	
	22+	.7	.5	.4	.3	.6	.5	1.7	1.6	.0		6.3	
	TOT %	2.7	2.0	2.7	3.0	3.9	3.7	6.3	4.9	.0	.5	29.8	
	0-3	.4	.3	.2	.2	.2	.2	.6	.4	.0	1.5	4.0	
10+	4-10	1.7	1.2	1.4	1.7	1.7	2.3	4.5	3.4	.0		17.9	
	11-21	2.2	1.1	1.4	1.2	1.8	1.7	5.0	5.3	.0		19.7	
	22+	.8	.7	.4	.5	.4	.5	3.5	3.5	.0		10.2	
	TOT %	5.1	3.2	3.5	3.7	4.1	4.6	13.6	12.5	.0	1.5	51.8	
	TOT OBS												7157
	TOT PCT	9.2	6.9	9.7	9.5	10.3	9.9	22.2	20.0	.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	4.5	.5	.9	5.6	13.6	6.3	2.5	1.4	1.4	3.3	40.0	60.0	1038
06&09	3.4	.6	.7	6.8	11.6	9.4	3.0	1.5	1.7	3.7	42.5	57.5	801
12&15	7.0	.5	2.4	6.9	14.6	10.9	2.5	1.6	1.7	2.6	50.7	49.3	1078
18&21	3.4	1.2	2.1	6.6	11.7	9.0	3.2	1.8	1.3	2.6	42.8	57.2	1118
TOT													4035
PCT	5.0	.8	1.7	6.6	13.0	8.7	2.8	1.6	1.4	3.0	44.6	55.4	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	3.8	2.8	3.3	8.5	33.1	48.6	2093
06&09	4.0	2.3	2.8	6.8	27.7	56.5	1532
12&15	5.3	4.6	3.0	6.5	32.5	48.2	2104
18&21	4.0	3.4	3.2	8.1	25.6	55.6	1775
TOT							7504
PCT	4.4	3.4	3.3	7.5	29.8	51.7	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	4.8	7.5	21.5	29.6	54.9	984
06&09	3.6	5.1	16.5	30.7	52.8	771
12&15	7.1	11.6	23.5	29.8	46.8	1062
18&21	3.6	8.5	21.8	23.7	54.5	1090
TOT						3907
PCT	5.3	9.1	22.0	25.9	52.1	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
75/79	.0	.0	.0	.0	*	*	.0	.0		*
70/74	.0	.0	*	*	*	.1	.0	*		.2
65/69	.0	.0	.0	*	.2	.3	.2	.2		.9
60/64	.0	*	*	.1	.5	1.3	1.7	1.3		4.9
55/59	.0	.0	.0	.1	.8	2.2	4.0	3.9		11.0
50/54	.0	.0	.1	.3	.9	1.9	4.1	4.8		11.9
45/49	.0	.0	*	.3	.8	1.9	3.6	3.7		10.2
40/44	.0	.0	.1	.4	1.2	2.4	3.0	4.0		11.1
35/39	.0	*	*	.5	.9	1.9	3.6	4.3		11.3
30/34	.0	.0	.1	.4	.9	2.5	3.5	5.0		12.4
25/29	.0	.0	.1	.4	.6	1.7	2.1	3.3		8.2
20/24	.0	.0	.2	.0	.7	1.4	1.5	2.6		6.4
15/19	.0	.0	.0	.2	.7	.9	2.3	1.1		5.3
10/14	.0	.0	.1	.0	.2	1.1	1.2	.6		3.2
5/9	.0	.0	.0	*	.3	.8	.7	.2		2.1
0/4	.0	.0	.0	*	*	.1	.4	.2		.8
-1/-4	.0	.0	.0	.0	.0	*	.1	.0		.1
TOTAL									4398	100.0
PCT	.0	*	.7	2.8	8.8	20.4	32.1	35.2		

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	.0	*	.1	.1	*	.0	*
*	*	*	.1	.2	.1	.2	.1	.0	*
.1	.2	.5	.5	.8	.8	1.4	.5	.0	.3
.5	.4	1.2	1.4	1.9	1.6	2.8	1.0	.0	.2
.7	.7	1.3	1.1	1.6	1.5	2.8	1.6	.0	.6
.8	.6	1.0	1.3	1.1	1.0	2.4	1.6	.0	.4
.9	.7	1.1	1.3	1.1	.9	2.6	2.3	.0	.2
1.6	1.2	1.5	1.0	.9	.6	1.9	2.5	.0	.2
1.5	1.0	1.4	1.1	1.0	.9	2.3	3.0	.0	.1
1.2	.7	.9	.5	.4	.5	1.6	2.2	.0	.1
.9	.3	.8	.7	.4	.4	1.1	1.8	.0	*
.6	.3	.6	.3	.1	.6	1.3	1.5	.0	.0
.3	.1	.0	.1	.4	.2	1.2	1.1	.0	.0
.3	.1	.1	.0	.0	.1	.7	.8	.0	.0
.1	*	.0	.0	*	.1	.2	.3	.0	.0
.0	.0	.0	.0	.0	.0	.1	*	.0	.0
9.5	6.3	10.4	9.3	9.9	9.4	22.5	20.4	.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	81	56	50	39	29	24	1	47.0	2234
06&09	81	56	51	38	28	24	-4	46.9	1607
12&15	76	56	52	39	27	23	-3	46.7	2243
18&21	75	56	51	40	29	24	-3	47.5	1826
TOT	81	57	51	39	28	23	-4	47.0	7910

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	7.2	18.5	36.0	34.7	85	1307
06&09	.0	1.2	3.3	14.5	30.8	45.2	87	901
12&15	.0	3.2	7.1	21.6	31.1	37.1	85	1244
18&21	.0	5.1	13.4	23.9	28.1	29.5	81	1138
TOT	0	144	360	904	1494	1688	84	4590

ANNUAL

PERIOD: (PRIMARY) 1921-1971
(OVER-ALL) 1864-1971

TABLE 17

AREA 0007 ANTICOSTI ISLAND
49.5N 62.9W

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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	2	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	8	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	*	*	*	*	*	.0	14	*	.2
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	*	.2	.1	.1	*	.1	*	39	*	.6
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	.2	.2	.3	.1	*	*	100	.1	1.4
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.3	.3	.4	.3	.3	.1	*	*	156	.1	1.7
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.5	.4	.5	.7	.8	.5	.1	*	.0	320	.4	3.8
6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.2	.3	.4	.5	.5	.3	.1	*	.0	220	.3	2.3
5	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.7	.8	.7	.7	.6	.5	*	*	.0	364	.6	4.4
4	.0	.0	.0	.0	.0	.0	.0	.0	.9	.8	.7	1.0	.9	1.0	1.0	.5	.1	.0	.0	319	.8	6.1
3	.0	.0	.0	.0	.0	.0	.0	.4	1.3	.7	.8	.9	.8	1.0	.9	.3	.1	.0	.0	322	.9	6.2
2	.0	.0	.0	.0	.0	.0	.0	1.0	1.5	.9	.9	1.1	1.0	1.3	1.1	.3	.1	.0	.0	656	.6	8.6
1	.0	.0	.0	.0	.0	.0	.0	.8	.9	.8	.8	1.0	1.1	1.4	1.0	.2	*	.0	.0	648	.8	7.2
0	.0	.0	.0	.0	.0	.0	.1	2.4	1.2	.9	1.2	.9	1.1	1.0	.7	.1	.0	.0	.0	617	.6	8.9
-1	.0	.0	.0	.0	.0	.0	.2	1.1	.3	.7	.6	.5	.6	.6	.3	*	*	.0	.0	374	.3	4.7
-2	.0	.0	.0	.0	.0	.0	1.1	1.0	.8	.6	.5	.5	.5	.4	.1	.0	.0	.0	.0	316	.4	5.0
-3	.0	.0	.0	.0	.0	.0	.8	.5	.4	.5	.4	.3	.4	.2	.1	*	.0	.0	.0	240	.3	3.3
-4	.0	.0	.0	.0	.0	.1	1.6	.9	.7	.5	.2	.2	.2	.1	*	*	.0	.0	.0	212	.1	4.5
-5	.0	.0	.0	.0	.0	.5	.7	.4	.4	.3	.2	.1	.1	.1	*	*	.0	.0	.0	148	*	2.8
-6	.0	.0	.0	.0	.0	.9	.3	.3	.3	.2	.1	.1	*	*	.0	*	.0	.0	.0	84	.0	2.1
-7/-8	.0	.0	.0	.0	.1	1.8	.7	.6	.5	.3	.1	.1	*	*	*	*	.0	.0	.0	155	.1	4.1
-9/-10	.0	.0	.0	.0	.8	.7	.8	.5	.2	*	*	*	*	.0	.0	.0	.0	.0	.0	95	*	3.0
-11/-13	.0	.0	.0	.2	2.6	1.0	.4	.2	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	100	.0	4.4
-14/-16	.0	.0	.0	1.2	1.2	.4	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	.0	3.0
-17/-19	.0	.0	.6	.6	.3	.1	*	*	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	31	.0	1.7
-20/-22	.0	.3	.6	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	.0	1.4
-23/-25	.1	.7	.5	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	.0	1.3
-26/-30	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	.5
<-30	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.1	.1
TOTAL																				6047		
PCT	.7	1.0	1.8	2.4	5.0	5.5	7.0	10.0	10.1	8.3	8.2	9.1	8.9	9.9	7.7	3.4	.8	.2	.1	100.0	6.5	93.5

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	.1	.7	.4	.0	.0	.0	1.2
1-2	.2	1.1	.7	.0	.0	.0	2.0
3-4	.0	.5	2.4	.4	.0	.0	3.3
5-6	.0	.2	.7	.7	*	.0	1.6
7	.0	.0	.2	.2	.2	.0	.6
8-9	.0	.0	.0	.0	.2	.0	.2
10-11	.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	.3	2.6	4.3	1.5	.4	.0	9.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	*	.0	.0	.0	.9
1-2	.1	.4	.4	.0	.0	.0	1.0
3-4	.0	.4	1.1	.4	.0	.0	1.9
5-6	.0	*	.6	.4	*	.0	1.2
7	.0	.0	*	.4	.0	.0	.4
8-9	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.1	.1	.0	.1
12	.0	.0	*	.1	.3	.0	.4
13-16	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.2	.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	.3	1.6	2.2	1.6	.4	.2	6.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.7	.5	.0	.0	.0	2.3
1-2	.1	1.3	1.2	.0	.0	.0	2.6
3-4	.0	.4	1.6	.5	.0	.0	2.5
5-6	.0	.1	.6	.4	.2	.0	1.2
7	.0	.0	.1	.2	.2	.0	.6
8-9	.0	.0	*	.2	.1	.0	.4
10-11	.0	.0	.0	*	.1	.0	.1
12	.0	.0	.0	.0	.2	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.5	4.1	1.3	.8	.0	9.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.2	*	.0	.0	.0	1.7
1-2	*	2.0	1.0	.0	.0	.0	3.1
3-4	.0	.6	.9	.5	.0	.0	2.0
5-6	.0	.1	.6	.2	*	.0	.9
7	.0	.0	.1	.2	.0	.0	.3
8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.0	.1	*	.0	.1
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	.6	3.9	2.7	1.1	.1	.0	8.9

PERIOD: (OVER-ALL) 1963-1971 ANNUAL AREA 0007 ANTICOSTI ISLAND

TABLE 18 (CONT) 49.5N 62.9W

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	1.3	.2	.0	.0	.0	1.6	.3	1.1	.1	.0	.0	.0	1.5
1-2	.1	1.7	1.6	.0	.0	.0	3.4	.1	1.4	1.0	.0	.0	.0	2.5
3-4	.0	.7	1.2	.6	.0	.0	2.4	.1	.9	1.3	.2	.0	.0	2.4
5-6	.0	.1	.7	.2	.0	.0	1.1	.0	.1	.8	.1	.0	.0	.9
7	.0	.0	.5	.2	*	.0	.7	.0	.1	.1	.3	*	.0	.5
8-9	.0	.0	.2	*	*	.0	.3	.0	*	*	.1	.0	.0	.2
10-11	.0	.0	.0	*	.0	.0	*	.0	.0	*	*	.0	.0	.1
12	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	*	.0	*
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	*	.0	*
17-19	.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	*
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	3.8	4.3	1.4	.1	.0	9.8	.5	3.5	3.4	.7	.1	.0	8.1

	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	.7	1.6	.4	.0	.0	.0	2.7	.2	1.5	*	.0	.0	.0	1.7	
1-2	.1	3.6	2.7	.0	.0	.0	6.4	.5	2.4	1.9	.0	.0	.0	4.8	
3-4	.1	2.1	3.6	1.1	.0	.0	6.8	.0	1.3	4.1	1.2	.0	.0	6.7	
5-6	.0	.1	1.5	1.0	.2	.0	2.7	.0	*	3.2	1.9	.6	.0	5.7	
7	.0	.0	.4	.8	.3	.2	1.7	.0	.0	.7	.7	.2	.1	1.6	
8-9	.0	.0	.1	.3	.1	.0	.5	.0	.0	*	.8	.8	.0	1.7	
10-11	.0	.0	.0	.5	.1	.0	.6	.0	.0	.0	.1	.1	.0	.2	
12	.0	.0	.0	.3	.3	.1	.7	.0	.0	.0	.1	.2	.0	.2	
13-16	.0	.0	.0	*	.1	.0	.1	.0	.0	*	*	.1	.0	.2	
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	*	*	.1	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	7.4	8.7	4.0	1.3	.4	22.6	.6	5.3	9.9	4.8	2.0	.1	22.7	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	7.0	9.7	1.5	.0	.0	.0	18.1	
1-2	1.3	13.9	10.4	.0	.0	.0	25.6	
3-4	.2	6.6	15.9	4.7	.0	.0	27.4	
5-6	.0	.7	8.5	4.8	1.0	.0	15.0	
7	.0	.1	1.9	9.0	1.0	.3	6.2	
8-9	.0	*	.5	1.7	1.2	.0	3.5	
10-11	.0	.0	*	.8	.4	.0	1.3	
12	.0	.0	*	.6	.9	.1	1.7	
13-16	.0	.0	*	.4	.2	.0	.6	
17-19	.0	*	.0	.0	.1	.0	.2	
20-22	.0	.0	.0	.0	.0	.3	.3	
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	8.5	31.1	38.8	16.0	4.9	.7	100.0	1865

PERIOD: (OVER-ALL) 1950-1970 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	6.1	18.8	20.5	8.7	3.3	1.4	.1	.4	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1461	3
6-7	.1	.9	3.9	5.6	2.7	2.3	.9	.7	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	425	6
8-9	.0	.5	.2	.9	1.1	.5	.5	.3	.0	*	.3	.0	.0	.0	.0	.0	.0	.0	.0	104	7
10-11	.0	.1	.1	*	.1	.1	.2	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	33	9
12-13	.0	.0	.1	*	*	.0	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
>13	.0	.0	.0	.1	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	7
INDET	9.9	3.2	2.5	1.1	.6	.1	.3	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	500	2
TOTAL PCT	16.0	23.4	27.2	15.5	7.9	4.5	2.1	2.0	.7	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	2538 100.0	3

PERIOD: (PRIMARY) 1921-1971
(OVER-ALL) 1864-1971

AREA 0007 ANTICOSTI ISLAND
49.5N 62.9W

TABLE 20

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

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	*
69/70	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	*
67/68	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	6	.1
65/66	.0	.0	.0	.0	.0	.0	.2	.7	.1	.0	.0	.0	11	.2
63/64	.0	.0	.0	.0	.0	.2	2.2	2.0	.1	.0	.0	.0	48	.7
61/62	.0	.0	.0	.0	.0	.3	2.5	5.0	.5	.0	.0	.0	89	1.3
59/60	.0	.0	.0	.0	.0	.2	7.4	10.3	1.5	.0	.0	.0	210	3.1
57/58	.0	.0	.0	.0	.0	1.2	11.0	19.2	5.0	.1	.0	.0	393	5.9
55/56	.0	.0	.0	.0	.9	2.4	17.5	21.9	11.5	.6	.2	.0	583	8.6
53/54	.0	.0	.0	.0	.2	4.8	19.5	17.6	18.2	.9	.3	.0	648	9.6
51/52	.0	.0	.0	.0	.7	11.4	14.2	10.4	17.1	3.3	.2	.0	570	8.5
49/50	.0	.0	.0	.6	.4	14.7	13.1	6.3	18.0	7.6	.2	1.1	595	8.8
47/48	.0	.0	.0	.6	1.1	15.2	6.6	3.6	11.1	12.8	.5	.6	482	7.2
45/46	.0	.0	.0	.6	5.6	20.0	2.6	1.5	6.5	20.0	5.1	1.1	530	7.9
43/44	.0	.0	.0	.6	8.1	14.4	1.6	.5	4.7	20.5	10.6	.0	491	7.3
41/42	.0	.0	.0	2.4	15.5	7.7	.8	.5	3.4	18.2	14.5	1.7	463	6.9
39/40	.0	.0	1.1	1.2	18.7	3.5	.4	.0	1.8	10.0	21.8	7.5	396	5.9
37/38	.0	2.3	1.1	4.7	24.9	2.0	.1	.0	.4	4.6	21.6	11.5	339	5.0
35/36	2.9	2.3	1.1	12.9	15.3	.2	.0	.0	.1	1.0	12.8	26.4	232	3.4
33/34	15.7	3.8	4.2	27.1	6.1	.0	.0	.0	.0	.3	7.4	33.9	204	3.0
31/32	38.3	7.5	12.6	32.9	2.2	.0	.0	.0	.0	.1	2.4	10.9	161	2.4
29/30	42.2	82.7	76.8	15.9	.2	.0	.0	.0	.0	.0	1.4	4.0	269	4.0
27/28	1.0	1.5	3.2	.6	.0	.0	.0	.0	.0	.0	.0	1.1	9	.1
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	102	133	95	170	445	660	1073	1097	1105	1085	592	174	6731	100.0
MEA..	31.7	29.8	30.0	33.4	39.2	46.8	53.5	55.2	50.6	44.1	39.0	35.1	40.7	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1014	1012	1010		1010	1006	1013	1011	1011	139
FEB	1012	1012	1011		1010	1008	1007	1010	1010	236
MAR	1014	1012	1015	1033	1011	1011	1013	1013	1013	158
APR	1013	1015	1017	1019	1013	1017	1014	1014	1014	190
MAY	1014	1015	1012	1013	1011	1016	1013	1013	1013	398
JUN	1011	1012	1012	1010	1012	1009	1011	1010	1011	619
JUL	1011	1010	1011	1010	1011	1010	1012	1011	1011	992
AUG	1011	1012	1011	1014	1013	1012	1011	1011	1012	971
SEP	1015	1014	1014	1014	1014	1013	1014	1012	1014	956
OCT	1012	1013	1012	1012	1012	1013	1012	1009	1012	1014
NOV	1015	1015	1012	1015	1013	1012	1014	1014	1014	608
DEC	1012	1019	1010	1008	1014	1022	1012	1014	1012	203
ANN	1013	1013	1012	1015	1012	1012	1012	1012	1012	6482
OBS	1418	375	1053	284	1394	378	1190	390		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	972	981	989	1002	1012	1021	1028	1037	1039
FEB	970	976	985	999	1011	1019	1031	1036	1040
MAR	979	981	995	1004	1013	1021	1031	1035	1036
APR	984	987	995	1008	1015	1021	1027	1030	1034
MAY	993	994	1000	1008	1013	1018	1025	1031	1033
JUN	987	993	1000	1007	1012	1016	1022	1026	1030
JUL	985	991	999	1006	1011	1016	1022	1027	1030
AUG	982	992	1000	1008	1012	1016	1021	1026	1029
SEP	983	991	1000	1008	1014	1021	1027	1031	1034
OCT	976	982	991	1005	1013	1020	1027	1031	1034
NOV	972	983	994	1006	1016	1022	1031	1036	1040
DEC	980	980	987	1004	1013	1021	1032	1036	1037

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