

A039972

SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO).

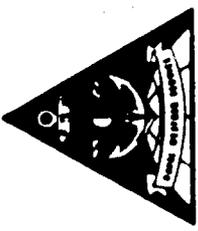
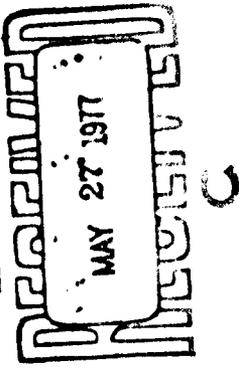
SOUTH AMERICA AND SELECTED ISLAND COASTAL MARINE AREAS,
EAST COAST.

VOLUME 2.

- AREA 9 - RIO DE JANEIRO.
- AREA 10 - FLORIANOPOLIS.
- AREA 11 - PORTO ALEGRE.
- AREA 12 - BUENOS AIRES.
- AREA 13 - BAHIA BLANCA.
- AREA 14 - RAWSON.
- AREA 15 - PUERTO DESEADO.
- AREA 16 - MAGELLAN STRAIT EAST.

21/10/17
1641e.

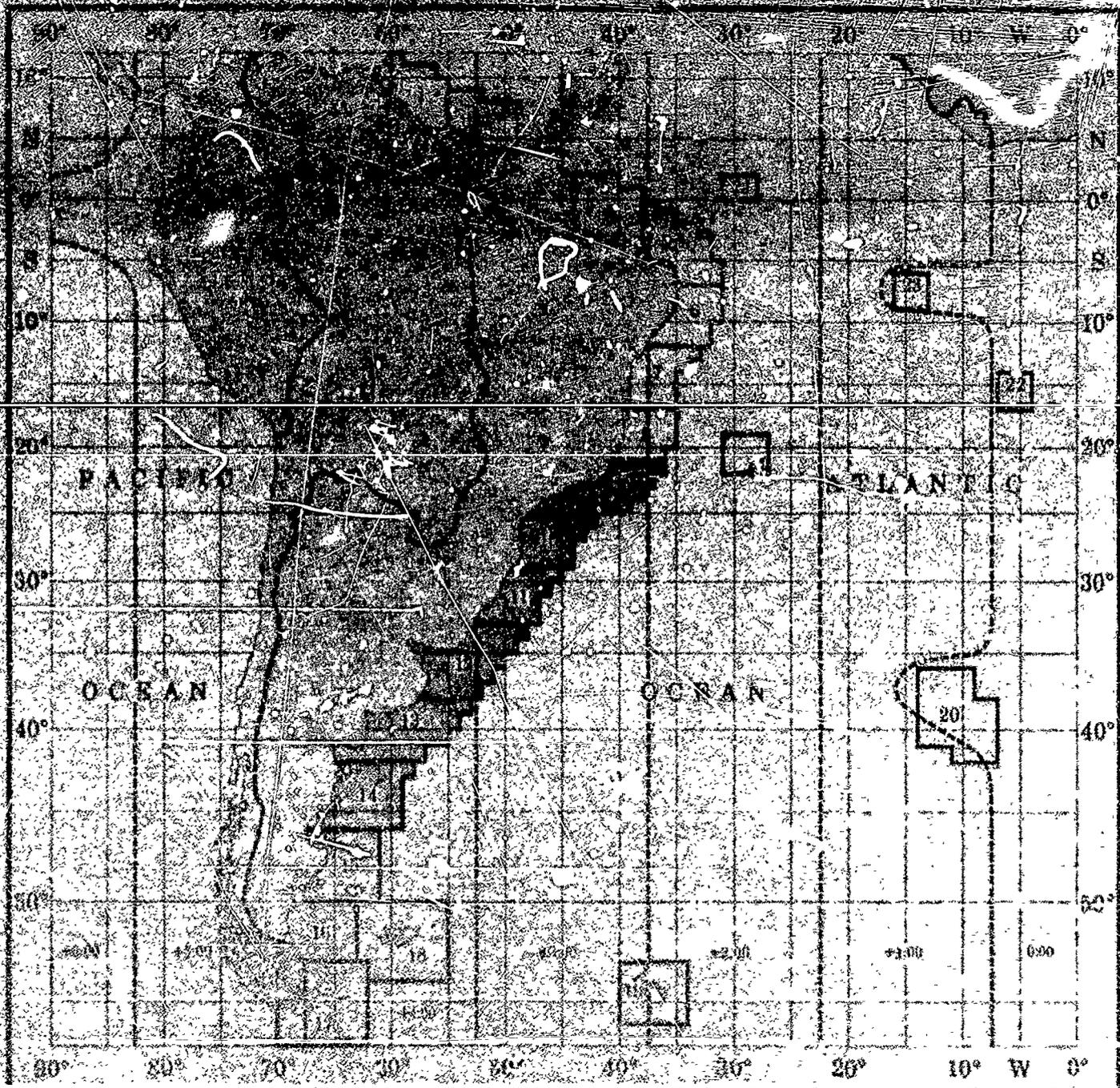
DDC



400 538

DISTRIBUTION STATEMENT A
Approved for public release;
Distribution Unlimited

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



SOUTH AMERICA AND SELECTED ISLAND AREA AND STANDARD TIME ZONES EAST COAST

Shaded areas are included in this volume

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

**Best
Available
Copy**

SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

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

The data summarized in the following tables were obtained from Tape Data Family 11 (TDF-11) Marine Surface Observations. The development and maintenance of TDF-11 was primarily funded by the Naval Weather Service Command. The source of these marine surface observations were punched cards of weather observations taken aboard vessels of varying registry. These observations were recorded on magnetic tape in a common format. Elements not in WMO code were converted to this code where possible. Where this was not possible, the original data were retained within the tape record as supplemental data. A very limited quality control was attempted as the punched cards were converted to taped records and, where possible, missing psychrometric data were computed.

Before the tables are prepared, extreme values of selected parameters are scrutinized so that obvious errors can be excluded. This method is necessarily subjective since the only available record of many observations is the punched card from which the tape records were prepared. Frequently there

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.

is no concrete evidence to prove or disprove the validity of questionable data.

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

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

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

THE TABLES

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 1-11 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.

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.

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.

FORM 10-64 (REV. 1-65)

THIS DOCUMENT CONTAINS UNCLASSIFIED INFORMATION

DATE: 11/1/65

BY: [Signature]

REASON FOR EXTENSION/AVAILABILITY DATA: [Blank]

EXTENSION/AVAILABILITY DATA: [Blank]

AREA	CONTENTS	PAGES
9	RIO DE JANEIRO	1-79
10	FLORIANOPOLIS	80-158
11	PORTO ALEGRE	159-237
12	BUENOS AIRES	238-316
13	BAHIA BLANCA	317-395
14	RAWSON	396-474
15	PUERTO DESEADO	475-553
16	MAGELLAN STRAIT EAST	554-632

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

DIRECTION AND WEATHER CODES

CONVERSION OF WIND AND WAVE DIRECTION TO 8 POINTS

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

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

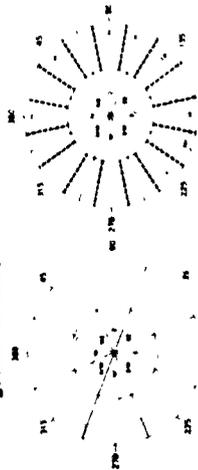


Fig 1 The 8 point direction system superimposed on the 16 point system

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

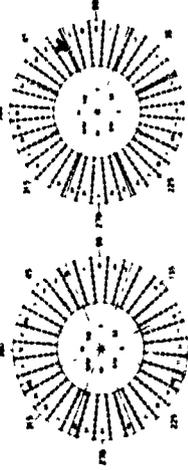


Fig 3 The 24 point direction system superimposed on the 8 point system

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

VISIBILITY (VV)		PRESENT WEATHER (1960 WMO CODE 4677)	
CODE	INTERPRETATION (NAUTICAL MILES)	CODE	INTERPRETATION
90-93	VV<1/2	58-59	FOG (WITHOUT PRECIPITATION)
94	1/2≤VV<1	60-65	FOG (WITHOUT PRECIPITATION)
95	1≤VV<2	91-94	RAIN
96	2≤VV<5	(68-69, 95, 97 IF TEMP >40°F)	FOG (WITHOUT PRECIPITATION) PAST HOUR
97	5≤VV<10	80-82, (83-84 IF TEMP >40°F)	SMOKE
98	10≤VV<25	50-55, 58-59	HAZE
99	VV≥25	56-57	SPRAY
		66-67	BLOWING DUST
		70-75, 85-86	BLOWING SNOW
		(68-69, 83-84, 95, 97 IF TEMP <40°F)	NO SIGNIFICANT WEATHER AT OB TIME
		76-79	OTHER FROZEN PRECIPITATION
		87-90	NO PRECIPITATION AT OB TIME
		93-94	
		96, 99	PRECIPITATION AT OB TIME
		13, 17	PRECIPITATION PAST HOUR
		19, 29	
		95-99	

NOTE:

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

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)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)
00	≤.25}	<1	12	>5.75 to 6.25}	20-22	30	>14.75 to 15.25	
01	>.25 to .75}	1-2	13	>6.25 to 6.75}		31	>15.25 to 15.75	
02	>.75 to 1.25}	3-4	14	>6.75 to 7.25}	23-25	32	>15.75 to 16.25	49-60
03	>1.25 to 1.75}	5-6	15	>7.25 to 7.75}		33	>16.25 to 16.75	
04	>1.75 to 2.25}	7	16	>7.75 to 8.25}	26-32	34	>16.75 to 17.25	
05	>2.25 to 2.75}	8-9	17	>8.25 to 8.75}		35	>17.25 to 17.75	
06	>2.75 to 3.25}	10-11	18	>8.75 to 9.25}		36	>17.75 to 18.25	
07	>3.25 to 3.75}	12	19	>9.25 to 9.75}				
08	>3.75 to 4.25}	13-16	20	>9.75 to 10.25}		37	>18.25 to 18.75	
09	>4.25 to 4.75}		21	>10.25 to 10.75}	33-40	38	>18.75 to 19.25	
10	>4.75 to 5.25}	17-19	22	>10.75 to 11.25}		39	>19.25 to 19.75	61-70
11	>5.25 to 5.75}		23	>11.25 to 11.75}		40	>19.75 to 20.25	
			24	>11.75 to 12.25}		41	>20.25 to 20.75	
			25	>12.25 to 12.75}		42	>20.75 to 21.25	
			26	>12.75 to 13.25}				
			27	>13.25 to 13.75}		43	>21.25 to 21.75	
			28	>13.75 to 14.25}		44	>21.75 to 22.25	
			29	>14.25 to 14.75}		45	>22.25 to 22.75	
						46	>22.75 to 23.25	
						47	>23.25 to 23.75	
						48	>23.75 to 24.25	71-86
						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-INDEX	

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1856-1973

JANUARY

AREA 0009 RIO DE JANEIRO
22.75 41.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZS PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGS NO PCPN	FGS NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.0	1.7	1.2	.0	.0	.0	.0	6.7	3.1	3.6	.2	.2	.7	.0	85.7
NE	2.0	.6	.9	.0	.0	.0	.0	3.2	1.3	3.4	.4	.1	.6	.0	91.0
E	2.4	1.5	.6	.0	.0	.0	.0	4.5	2.0	1.8	.4	.0	1.9	.0	88.8
SE	7.0	2.9	3.2	.0	.0	.0	.0	13.2	2.3	2.6	.7	.0	.9	.0	80.7
S	6.1	4.0	1.8	.0	.0	.0	.0	11.9	5.8	1.9	.8	.0	.7	.0	79.4
SW	5.1	2.3	1.7	.0	.0	.0	.0	9.1	1.0	3.8	2.8	.0	2.4	.0	81.3
W	3.9	1.8	1.5	.0	.0	.0	.0	7.2	3.9	6.1	4.4	.0	3.8	.0	74.8
NW	7.1	1.2	1.5	.0	.0	.0	.0	9.8	5.1	3.8	1.8	.0	2.4	.0	77.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1	.0	1.1	.0	.0	.0	.0	2.2	5.4	1.1	3.2	.0	1.1	.0	87.1
TOT PCT	3.6	1.8	1.8	.0	.0	.0	.0	6.4	2.6	3.0	.8	.1	1.1	.0	86.1
TOT OBS:	2796														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZS PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGS NO PCPN	FGS NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0600	3.1	1.8	2.2	.0	.0	.0	.0	8.9	7.4	8.0	.7	.0	.6	.0	79.2
0630	3.7	2.3	1.2	.0	.0	.0	.0	7.4	3.4	4.1	.9	.0	.7	.0	83.6
1215	2.6	1.1	1.2	.0	.0	.0	.0	4.8	1.9	.1	1.1	.2	1.9	.0	89.9
1821	3.3	1.1	1.3	.0	.0	.0	.0	3.6	2.6	.7	.3	.0	1.0	.0	90.0
TOT PCT	3.6	1.8	1.8	.0	.0	.0	.0	6.6	2.7	3.1	.8	.1	1.1	.0	85.8
TOT OBS:	2961														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT PRSQ	MEAN SPD	HOUR (GMT)							
	0-6	7-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.0	3.6	7.4	1.4	.0	.0	13.3	12.3	11.9	12.3	15.1	15.6	18.9	18.6	14.6	11.5		
NE	1.3	13.0	18.6	2.6	.1	.0	33.6	12.3	31.9	33.7	35.6	34.9	33.5	30.8	34.2	41.0		
E	1.9	6.7	2.2	.3	.0	.0	16.0	9.2	20.0	17.7	15.6	16.3	12.9	13.2	16.3	19.7		
SE	1.4	6.3	2.7	.3	.0	.0	10.8	8.7	14.6	10.7	8.9	8.3	6.2	9.8	12.9	8.7		
S	1.1	3.8	2.0	.2	.0	.0	7.1	8.9	8.3	5.7	3.3	9.9	6.2	7.3	9.1	5.8		
SW	.8	3.3	1.2	.2	.0	.0	3.3	8.6	4.3	3.1	4.8	4.2	6.3	7.1	3.3	4.3		
W	.6	2.3	.8	.1	.0	.0	3.9	8.0	2.6	4.0	4.3	3.1	3.2	4.3	2.3	1.6		
NW	.3	2.0	.8	.1	.0	.0	3.4	8.9	2.4	3.1	4.3	4.9	3.8	4.3	2.4	3.8		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	4.3						4.3	.0	4.4	3.8	3.7	2.8	4.3	4.2	2.7	3.9		
TOT OBS	1237	4284	3470	491	12	2	9446	10.2	1063	1213	1789	144	1677	1400	1444	132		
TOT PCT	13.1	44.9	36.7	3.2	.1	.0	100.0	10.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT PRSQ	MEAN SPD	HOUR (GMT)				
	0-6	7-10	17-27	28-48				00	06	12	18	21
N	3.1	7.7	4.3	.2	0	15.3	12.3	12.2	13.2	18.8	14.3	
NE	6.0	19.1	8.2	.4	0	33.8	12.3	33.3	33.7	32.3	34.9	
E	3.6	8.9	1.6	.0	.0	16.0	9.2	19.1	13.7	13.0	16.6	
SE	4.3	3.3	.9	.1	.0	10.8	8.7	13.0	8.8	9.2	12.3	
S	2.9	2.3	.8	.0	.0	7.1	8.9	7.2	3.9	6.8	8.8	
SW	2.4	2.3	.3	.1	.0	3.3	8.6	4.7	4.8	6.7	3.4	
W	1.9	1.6	.3	.0	.0	3.9	8.0	3.3	4.2	4.9	2.2	
NW	1.6	1.4	.4	.0	.0	3.4	8.9	2.7	4.3	4.0	2.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.3					4.3	.0	4.2	3.3	4.4	2.8	
TOT OBS	3029	4733	1614	84	4	9460	10.2	2880	1913	3077	1396	
TOT PCT	32.0	50.0	17.1	.9	.0	100.0	10.2	100.0	100.0	100.0	100.0	

JANUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1956-1973

AREA 0009 RIO DE JANEIRO
22.73 41.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	4.2	8.4	43.9	36.2	5.1	.1	.1	10.2	100.0	2880
0400	3.3	8.0	46.6	34.4	4.8	.1	.0	9.9	100.0	1913
1200	4.4	10.0	42.0	36.5	3.0	.2	.0	10.1	100.0	3077
1800	2.8	6.3	43.2	40.5	5.1	.1	.0	10.8	100.0	1396
TOT	404	833	4234	3470	491	12	2	10.2		9466
PCT	4.3	8.8	44.9	36.7	5.2	.1	"		100.0	

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8-8	TOTAL OBS	MEAN CLOUD COVER
N	4.2	2.7	3.1	3.7		4.7
NE	17.2	6.8	9.4	4.3		3.4
E	3.7	3.3	4.6	2.6		3.9
SE	2.3	1.8	3.4	3.4		3.2
S	1.1	1.4	2.3	1.7		3.2
SW	.8	.7	1.8	.9		3.1
W	.3	.6	1.1	.9		3.3
NW	.4	.3	.7	.5		3.1
VAR	.0	.0	.0	.0		.0
CALM	.6	.4	1.1	.5		4.9
TOT OBS	623	347	361	331	1662	4.2
TOT PCT	39.1	20.4	20.8	19.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/3)
AND OCCURRENCE OF NM <3/8 BY WIND DIRECTION

000	100	300	600	1000	2000	3500	5000	6500	8000+	NM <3/8 ANY HGT	TOTAL OBS
*	*	.1	1.0	1.9	.7	.7	.1	.0	*	11.0	
*	*	.4	1.8	1.6	1.4	1.2	.3	.1	.4	30.7	
.0	.2	.2	1.1	1.7	1.1	.4	.1	.1	.1	11.3	
.1	*	.3	1.0	1.9	.7	.5	.0	.1	*	6.6	
*	*	.0	.3	1.0	.8	.3	.2	.1	*	3.7	
*	*	.1	.4	.4	.7	.2	.0	*	.1	2.2	
.0	.0	.1	.4	.4	.2	.1	.1	.0	.1	1.8	
.0	.0	.1	.2	.2	*	.1	.1	.0	.0	1.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.1	.3	.3	.2	.0	.1	.0	.1	1.6	
.4	.6	.4	.3	.3	.2	.1	.1	.1	.1	1.6	
.2	.3	1.3	6.3	9.3	3.7	3.8	1.0	.4	.8	70.6	
										100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/3) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>3	>2	>1	>1/2	>1/4	>3000	>0
* OR >4500	.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4
* OR >3000	1.7	2.2	2.4	2.4	2.4	2.4	2.4	2.4
* OR >2000	3.2	3.3	4.0	6.1	6.2	6.2	6.2	6.2
* OR >1000	6.2	10.6	11.7	11.9	11.9	12.0	12.0	12.0
* OR >500	12.3	19.1	20.7	21.1	21.1	21.2	21.3	21.3
* OR >300	14.9	23.3	27.3	27.7	27.8	27.9	28.0	28.0
* OR >150	17.7	26.5	28.3	28.9	29.0	29.1	29.2	29.3
* OR >0	17.8	26.6	28.6	29.0	29.1	29.3	29.4	29.4
TOTAL	342	312	333	362	343	366	348	369

TOTAL NUMBER OF OBS: 1921

PCT FREQ NM <3/8: 70.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.6	17.6	14.7	11.2	8.1	6.1	6.2	6.5	11.9	.1	20.9

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1856-1973

JANUARY

AREA 0009 RIO DE JANEIRO
22,75 41,3W

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.1	.0	.0	.0	.0	.0	.1	.0	.0	.1	.9	
	TOT S	.1	.1	.1	.0	.0	.0	.1	.0	.0	.1	.9	
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT S	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.9	
1<2	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.1	.1	.1	.2	.0	.0	.1	.0	.0	.0	.6	
	TOT S	.1	.1	.1	.2	.0	.0	.1	.0	.0	.0	.8	
2<3	PCP	.0	.1	.1	.4	.2	.0	.0	.0	.0	.0	1.0	
	NO PCP	.5	.7	.7	.8	.5	.4	.3	.3	.0	.2	4.3	
	TOT S	.5	.8	.8	1.1	.7	.5	.3	.3	.0	.3	5.3	
3<10	PCP	.5	.7	.3	.8	.4	.3	.2	.2	.0	.0	3.3	
	NO PCP	2.9	6.3	3.4	2.8	1.5	1.3	1.2	.8	.0	.8	20.5	
	TOT S	3.4	7.0	3.7	3.2	1.9	1.5	1.4	1.0	.0	.8	23.8	
10+	PCP	.4	.2	.2	.4	.2	.1	.1	.0	.0	.0	1.6	
	NO PCP	10.5	26.0	10.9	6.9	4.4	2.9	2.1	1.4	.0	2.4	67.4	
	TOT S	10.9	26.3	11.1	7.3	4.6	3.0	2.1	1.3	.0	2.4	69.1	
TOT OBS												2792	
TOT PCT		19.0	34.3	19.8	11.9	7.4	5.1	4.0	3.0	.0	3.3	100.0	

TABLE 9

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

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	.3
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.3	
	11-21	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.1	.1	.2	.2	.1	.1	.1	.1	.0	.0	.1	1.0
2<3	0-3	.0	.1	.0	.2	.1	.1	.0	.0	.0	.2	.7	
	4-10	.2	.3	.3	.4	.2	.2	.2	.2	.0	.0	1.9	
	11-21	.2	.2	.3	.3	.2	.1	.1	.1	.0	.0	1.6	
	22+	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT S	.5	.6	.6	.9	.6	.4	.3	.3	.0	.2	3.4	
3<10	0-3	.2	.3	.4	.4	.1	.2	.1	.1	.0	.3	2.2	
	4-10	.9	1.7	1.8	1.3	.8	.7	.6	.3	.0	.0	9.1	
	11-21	1.2	2.6	.9	.8	.7	.2	.3	.1	.0	.0	6.8	
	22+	.3	.3	.0	.0	.0	.1	.0	.0	.0	.0	1.3	
	TOT S	2.6	5.3	2.8	2.6	1.7	1.2	1.0	.8	.0	.3	19.4	
10+	0-3	.7	1.3	1.6	1.0	.6	.7	.4	.3	.0	3.1	9.6	
	4-10	4.2	11.1	7.3	4.9	3.9	2.1	1.6	1.2	.0	.0	39.4	
	11-21	3.3	14.0	4.4	1.6	1.2	.6	.4	.3	.0	.0	28.0	
	22+	.7	1.4	.2	.1	.1	.0	.0	.0	.0	.0	2.6	
	TOT S	11.1	27.8	13.9	7.6	4.9	3.4	2.3	1.8	.0	3.1	79.6	
TOT OBS												5238	
TOT PCT		14.3	34.0	17.2	11.2	7.3	5.1	3.9	3.0	.0	4.0	100.0	

JANUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1856-1973

AREA 0009 RIO DE JANEIRO
22.7S 41.5W

TABLE 10

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

HR	000	100	200	300	400	500	600	700	800	900	1000	2000	3000	4000	5000	6000	8000	TOTAL	MH <5/8	TOTAL
(GMT)	149	299	399	499	599	699	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799		ANY MGT	OBS
0000	.2	.2	.4	7.0	8.5	4.0	2.8	1.3	.6	.4	25.0	74.4	472							
0600	.4	.0	1.6	5.4	10.1	5.6	4.3	.6	.0	1.0	28.9	71.1	516							
1200	.0	.4	1.7	6.7	9.6	6.5	4.4	.8	.2	.0	31.1	68.9	521							
1800	.2	.6	1.0	6.3	8.0	6.5	3.1	1.4	.6	1.6	29.2	70.8	510							
TOT	4	6	24	128	183	118	74	21	7	19	381	1438	2019							
PCT	.2	.3	1.2	6.3	9.1	5.7	3.7	1.0	.3	.9	28.8	71.2	100.0							

TABLE 11

PERCENT FREQUENCY VSBY (MH) BY HOUR

HR	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL
(GMT)							OBS
0000	.3	.5	1.4	5.2	19.5	73.3	1339
0600	.5	.2	1.1	3.7	17.9	74.6	1177
1200	.2	.2	.8	3.5	18.2	77.1	1637
1800	.4	.2	.8	3.4	19.1	76.1	974
TOT	18	12	58	238	998	4022	3349
PCT	.3	.2	1.0	4.5	18.7	75.3	100.0

TABLE 12

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

HR	<100	<600	<1000	1000+	MH <5/8	TOTAL
(GMT)	<3000	<1	<5	AND 5+	AND 5+	OBS
0000	.2	1.4	11.3	17.6	70.9	444
0600	.4	2.8	13.3	18.2	68.3	493
1200	.0	2.0	12.3	21.2	66.3	496
1800	.2	1.4	11.3	19.1	69.3	486
TOT	5	37	233	366	1320	1921
PCT	.3	1.9	12.2	19.1	68.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
93/99	.0	.0	.1	.0	.0	.1	.1	.1	3	.2
90/94	.0	.0	.0	.2	.1	.0	.1	.1	9	.3
87/83	.0	.0	.1	1.1	1.4	.4	.0	.0	65	3.3
84/84	.0	.0	.0	2.1	9.3	8.3	2.7	.0	454	22.8
79/79	.0	.0	.0	1.1	8.2	29.6	18.3	.0	1188	57.1
74/74	.0	.0	.0	.6	1.1	4.8	9.0	.0	309	15.5
69/69	.0	.0	.0	.0	.1	.2	.3	.0	14	.7
64/64	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
TOTAL	0	0	1	4	97	492	869	620	1999	100.0
PCT	.0	.0	.1	.2	4.9	20.3	43.6	31.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
93/99	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0
90/94	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0
87/83	.0	1.1	.4	.2	.2	.2	.2	.1	.0	.4
84/84	3.1	2.3	2.9	1.7	1.0	1.1	2.6	.0	.0	.9
79/79	8.8	21.8	8.3	6.4	3.9	2.3	2.0	1.5	.0	2.0
74/74	1.7	4.6	2.8	2.1	1.5	1.1	.9	.5	.0	.3
69/69	.1	.1	.2	.1	.2	.0	.1	.0	.0	.0
64/64	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
TOTAL	16.1	37.0	14.6	10.6	6.9	4.7	3.8	2.6	.0	3.6

TABLE 15

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

HR	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
0000	91	84	81	77	72	69	68	76.7	2868
0600	94	82	80	76	71	69	68	75.8	1916
1200	95	86	84	78	73	69	64	78.3	3020
1800	93	88	83	79	73	70	68	79.2	1344
TOT	95	86	83	77	72	69	64	77.4	9348

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
0000	.0	.2	3.5	14.3	43.8	37.0	86	597
0600	.0	.0	1.5	11.8	39.7	47.1	88	473
1200	.0	.3	7.1	24.3	43.9	24.4	83	633
1800	.0	.5	8.3	30.1	43.3	17.8	81	469
TOT	0	5	99	414	899	637	83	2074

JANUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1856-1973

AREA 0009 RIO DE JANEIRO
22.78 41.5W

TABLE 17

PCT FRQ 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	03 06	02 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
11/13	.0	.0	.0	.0	.3	.1	.2	.0	.0	19	.0	.8
9/10	.0	.0	.0	.2	.2	.5	.2	.1	.4	29	.0	1.2
7/8	.0	.0	.0	.2	.9	.5	.3	.0	.0	43	.0	1.9
6	.0	.0	.2	.4	.7	1.0	.2	.0	.0	39	.0	2.4
5	.0	.0	.1	.4	1.7	1.8	.5	.0	.0	104	.0	4.5
4	.0	.0	.2	1.2	2.9	2.0	.2	.0	.0	131	.0	6.5
3	.0	.0	.0	1.4	3.1	1.9	.2	.0	.0	152	.0	6.6
2	.0	.0	.3	2.8	5.4	2.9	.0	.0	.0	249	.1	10.0
1	.0	.0	.3	4.7	7.0	1.4	.1	.0	.0	314	.0	13.6
0	.0	.0	.0	6.0	8.3	1.1	.0	.0	.0	363	.2	15.7
-1	.0	.0	.4	3.4	6.3	.7	.0	.0	.0	256	.0	11.1
-2	.0	.0	.0	4.8	5.0	.3	.0	.0	.0	236	.0	10.2
-3	.0	.0	.0	2.8	3.2	.1	.0	.0	.0	132	.0	3.8
-4	.0	.0	.0	1.7	1.0	.0	.0	.0	.0	73	.0	3.2
-5	.0	.0	.0	1.3	.7	.1	.0	.0	.0	39	.0	2.0
-6	.0	.0	.0	.8	.7	.1	.0	.0	.0	30	.0	1.3
-7/8	.0	.1	.4	.3	.1	.0	.0	.0	.0	19	.0	.8
-9/+10	.0	.0	.0	.1	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	1	4	116	733	1039	323	47	6	3	2294	14	2380
PCT	.0	.2	5.1	32.0	46.2	14.1	2.0	.3	.1	100.0	.6	99.4

PERIOD: (OVER-ALL) 1903-1973

TABLE 18

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

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22-23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28-29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30-31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
32-33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
34-35	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
36-37	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
38-39	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
40-41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
42-43	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
44-45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
46-47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
48-49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
50-51	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
52-53	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
54-55	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
56-57	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
58-59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
60-61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
62-63	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
64-65	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
66-67	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
68-69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
70-71	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
72-73	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
74-75	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
76-77	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
78-79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
80-81	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
82-83	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
84-85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
86-87	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
88-89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90-91	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
92-93	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
94-95	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
96-97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
98-99	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
100-101	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	6.4	6.4	3.3	.0	.0	14.1	.5	7.7	5.1	.0	.0	.0	13.3

PERIOD: (OVER-ALL) 1963-1973

JANUARY

AREA 0009 RIO DE JANEIRO
22.7S 41.9W

TABLE 18 (CONT)

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

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.3	.4	.0	.0	.0	.0	.6	.1	.4	.0	.0	.0	.0	.6		
1-2	.3	2.7	.6	.0	.0	.0	3.6	.0	1.3	.0	.0	.0	.0	1.4		
3-4	.0	1.4	1.3	.0	.0	.0	2.7	.0	.5	.0	.0	.0	.0	.5		
5-6	.0	.1	.4	.0	.0	.0	.8	.0	.5	.3	.0	.0	.0	.8		
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.5	4.6	2.6	.2	.0	.0	7.9	.1	2.9	.3	.1	.0	.0	3.4		

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.0	.2	.0	.0	.0	.0	.2	.0	.4	.0	.0	.0	.0	.4	.4		
1-2	.0	1.6	.0	.0	.0	.0	1.6	.0	.4	.1	.0	.0	.0	.8	.8		
3-4	.0	.2	.0	.0	.0	.0	.2	.0	.1	.3	.0	.0	.0	.4	.4		
5-6	.0	.4	.0	.0	.0	.0	.4	.0	.2	.4	.0	.0	.0	.6	.6		
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	2.4	.0	.0	.0	.0	2.4	.3	1.0	.9	.0	.0	.0	2.2	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	6.7	5.1	.2	.0	.0	.0	12.0	827
1-2	2.8	24.1	6.2	.0	.0	.0	33.0	
3-4	.4	10.3	20.1	1.2	.0	.0	31.9	
5-6	.1	2.4	10.3	1.1	.0	.0	14.1	
7	.0	.4	2.3	1.9	.0	.0	4.8	
8-9	.0	.0	.1	.6	.0	.0	.7	
10-11	.0	.1	.0	.2	.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	9.9	42.9	42.7	5.1	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.5	14.3	18.8	6.3	1.9	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	749	3
6-7	.1	2.2	9.7	8.8	3.2	.9	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	412	4
8-9	.1	1.0	2.3	2.4	1.9	1.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	190	5
10-11	.0	.5	.4	.3	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	5
12-13	.0	.0	.5	.2	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	5
14-15	.0	.0	.0	.2	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	7
INDXT	2.8	4.8	3.0	2.7	.9	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	274	3
TOTAL PCT	103	374	801	349	140	59	13	6	1	0	0	0	0	0	0	0	0	0	0	1842	4

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1857-1973

FEBRUARY

AREA 0009 RIO DE JANEIRO
22.75 41.5N

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	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	SMDKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.7	1.8	.9	.0	.0	.0	.0	4.4	1.5	4.0	.2	.0	2.5	.0	87.1
NE	2.0	1.1	.5	.0	.0	.0	.0	3.8	.7	3.0	.7	.0	1.0	.0	91.3
E	2.7	.6	1.2	.0	.0	.0	.0	4.3	1.9	1.7	1.2	.2	.7	.0	70.1
SE	2.9	1.9	.7	.0	.0	.0	.0	4.8	4.5	2.5	.8	.0	1.2	.0	86.8
S	9.7	2.5	.9	.0	.0	.0	.0	13.1	3.3	2.8	.6	.0	2.2	.0	75.6
SW	3.8	4.4	3.5	.0	.0	.0	.0	13.0	3.3	4.9	2.6	.0	1.0	.0	75.2
W	8.1	1.0	2.8	.0	.0	.0	.0	8.9	4.8	2.8	.0	.0	.0	.0	83.3
NW	1.8	1.8	3.2	.0	.0	.0	.0	8.9	1.8	3.8	.3	.0	.9	.0	82.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALP	8.7	.0	4.3	.0	.0	.0	.0	10.1	.0	11.2	3.4	.0	3.4	.0	71.9
TOT PCT	3.1	1.4	1.2	.0	.0	.0	.0	3.3	2.0	3.3	.9	.0	1.3	.0	87.1
TOT OBS:	2809														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	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	SMDKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	4.4	1.8	1.8	.0	.0	.0	.0	7.3	2.7	8.2	.8	.0	.3	.0	81.2
0400	3.3	1.7	1.7	.0	.0	.0	.0	8.8	1.8	4.9	1.9	.0	.8	.0	84.8
1200	1.8	1.8	.9	.0	.0	.0	.0	4.0	2.0	.4	.7	.1	2.3	.0	90.3
1800	2.8	.9	.8	.0	.0	.0	.0	4.2	1.4	.2	.8	.0	1.2	.0	92.4
TOT PCT	3.1	1.8	1.2	.0	.0	.0	.0	3.6	1.9	3.3	.9	.0	1.2	.0	87.0
TOT OBS:	2887														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT PREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.1	3.4	8.4	1.0	.1	.0	14.4	12.0	9.8	11.5	14.8	13.3	19.4	18.1	13.5	8.7
NE	1.7	15.0	15.8	2.0	.1	.0	34.6	11.7	33.3	22.3	38.8	30.6	34.8	32.2	33.4	32.7
E	1.8	10.8	4.8	.2	.0	.0	17.3	9.0	21.0	21.4	18.4	28.2	13.9	14.7	18.3	23.8
SE	1.2	3.9	3.0	.2	.0	.0	9.3	8.4	12.8	9.4	7.3	8.7	6.1	9.0	11.3	12.3
S	1.1	3.7	1.3	.1	.0	.0	6.3	8.0	7.7	7.1	3.2	3.2	4.8	3.1	3.3	6.3
SW	.8	3.9	1.3	.2	.0	.0	3.4	8.3	3.8	4.9	3.3	3.8	6.3	3.9	6.4	6.3
W	.9	2.2	.7	.1	.0	.0	3.9	7.4	2.3	4.0	4.2	2.8	4.3	3.3	3.4	4.0
NW	.7	1.9	.8	.2	.0	.0	3.3	7.8	1.8	3.9	3.3	6.7	4.3	3.2	2.3	4.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALP	4.7	.0	.0	.0	.0	.0	4.7	.0	3.7	3.3	6.3	.8	6.1	4.4	2.3	.8
TOT OBS	1338	4828	3187	393	20	2	9340	9.7	1787	1239	1788	128	1823	1323	1314	128
TOT PCT	14.0	48.4	33.2	4.1	.2	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT PREQ	MEAN SPD	HOUR (GMT)								
	0-6	7-16	17-27	28-40				00	03	06	09	12	15	18	21	
N	3.1	7.5	3.3	.2	8	14.4	12.0	10.4	14.8	18.8	13.1					
NE	7.0	19.9	7.2	.4	8	34.6	11.7	34.2	38.2	33.3	33.2					
E	8.1	10.0	1.4	.0	8	17.3	9.0	21.2	17.1	14.2	17.0					
SE	4.0	4.8	.7	.0	8	9.3	8.4	11.4	7.4	7.4	11.4					
S	3.1	2.7	.4	.0	8	6.3	8.0	7.3	3.2	4.8	8.2					
SW	2.3	2.9	.4	.0	8	3.9	8.3	3.4	3.4	6.1	6.6					
W	2.1	1.8	.2	.0	8	3.9	7.4	3.0	4.1	3.0	3.6					
NW	1.8	1.4	.4	.1	8	3.3	8.6	2.7	3.7	4.8	2.7					
VAR	.0	.0	.0	.0	8	.0	.0	.0	.0	.0	.0					
CALP	4.7	.0	.0	.0	8	4.7	.0	4.4	6.1	3.3	2.4					
TOT OBS	3240	4833	1365	73	9	9340	9.7	3048	1906	2948	1840					
TOT PCT	34.2	30.7	14.3	.8	.1	100.0		100.0	100.0	100.0	100.0					

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1857-1973

AREA 0009 RIO DE JANEIRO
22.75 41.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT PREG	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	4.4	9.0	30.2	32.2	3.7	.4	0	9.7	100.0	3046
0600Z	6.1	9.0	48.8	32.6	3.5	.1	.0	9.4	100.0	1906
1200Z	3.9	11.3	43.1	33.2	4.9	.1	.0	9.6	100.0	2948
1800Z	2.4	7.0	30.4	35.6	4.3	.3	.1	10.3	100.0	1640
TOT	448	893	4620	3167	363	20	2	9.7		8540
PCT	4.7	9.4	48.4	33.2	4.1	.2	0	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & DESCO	TOTAL OBS	MEAN CLOUD COVER
NE	19.5	7.3	6.0	3.9	3.2	3.2
E	6.2	4.2	4.6	3.1	4.0	4.0
SE	2.6	1.7	2.3	1.8	4.4	4.4
S	1.2	1.1	1.8	1.3	3.1	3.1
SW	1.0	1.1	1.7	1.4	3.3	3.3
W	.3	.6	.8	1.2	3.6	3.6
NW	.5	.3	.7	.7	3.2	3.2
VAR	.0	.0	.0	.0	.0	.0
CALM	1.3	.8	.8	.8	3.5	3.5
TOT OBS	717	876	904	821	1918	4.0
TOT PCT	37.4	19.6	26.3	16.7	100.0	

TABLE 6

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

WIND DIR	0-2	3-4	5-7	8 & DESCO	TOTAL OBS	MEAN CLOUD COVER	CEILING HEIGHTS (FT, MM >4/8)											TOTAL ANY HGT OBS
							000	100	300	600	1000	2000	3000	5000	6000	8000+	MM <5/8	
M	4.7	2.9	3.3	2.5	4.4	4.4	.0	.0	.2	.8	1.3	1.1	.4	.1	.1	.4	10.9	
NE	19.5	7.3	6.0	3.9	3.2	3.2	.2	.1	.1	1.2	1.7	1.3	.8	.3	.1	.3	22.4	
E	6.2	4.2	4.6	3.1	4.0	4.0	.1	.1	.1	.9	1.4	1.2	.3	.2	.0	.2	13.4	
SE	2.6	1.7	2.3	1.8	4.4	4.4	.1	0	.1	.4	1.0	.6	.2	.1	.0	.1	6.3	
S	1.2	1.1	1.8	1.3	3.1	3.1	.0	0	.1	.3	1.0	.6	0	0	.0	.1	3.3	
SW	1.0	1.1	1.7	1.4	3.3	3.3	.1	.1	.1	.6	.6	.4	.4	.1	.1	0	2.8	
W	.3	.6	.8	1.2	3.6	3.6	.1	.0	.1	.2	.7	.4	.7	.1	.0	.0	1.3	
NW	.5	.3	.7	.7	3.2	3.2	.1	.0	.0	.1	.3	.3	.1	.1	.0	.0	1.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.3	.8	.8	.8	3.5	3.5	.0	.0	.1	.1	.3	.2	.1	.0	.0	.0	2.4	
TOT OBS	717	876	904	821	1918	4.0	11	3	13	30	138	120	32	16	5	21	1423	
TOT PCT	37.4	19.6	26.3	16.7	100.0		.6	.3	.8	4.7	8.2	6.3	2.7	.8	.3	1.1	74.3	

TABLE 7

CUMULATIVE PCT PREG OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (MM >4/8) AND VSBY (MM)

CEILING (FEET)	VSBY (MM)							
	>10	>8	>2	>1	>1/2	>1/4	>0.0	>0
>4800	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
>3600	1.9	2.3	2.3	2.3	2.3	2.3	2.3	2.3
>2400	3.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
>1800	4.1	10.8	11.1	11.1	11.1	11.1	11.1	11.1
>1000	13.3	18.7	19.4	19.4	19.4	19.4	19.4	19.4
>600	16.4	23.8	23.8	23.8	23.8	23.8	23.8	23.8
>300	16.7	23.8	24.3	24.6	24.7	24.7	24.7	24.7
>150	16.8	23.7	24.7	24.9	24.9	24.9	24.9	24.9
>0	19.8	24.2	23.3	23.3	23.3	23.3	23.3	23.3
TOTAL	369	471	492	492	492	497	500	500

TOTAL NUMBER OF OBS: 1944

PCT PREG MM <5/8: 74.3

TABLE 7A

PERCENTAGE PREG OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 DESCO	TOTAL OBS
17.3	18.9	16.2	12.4	6.8	5.6	5.6	4.0	9.9	2168

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1937-1973

AREA 0009 RIO DE JANEIRO
22.7° 41.3W

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
41/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2
	TOT %	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2
1/2<1	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
1<2	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	.4
2<5	PCP	.1	.1	.1	.1	.2	.1	.1	.0	.0	.0	.0	.7
	NO PCP	.3	.7	.5	.3	.1	.1	.1	.1	.0	.1	.1	2.2
	TOT %	.3	.7	.6	.4	.3	.2	.1	.1	.0	.1	.1	2.9
5<10	PCP	.4	.7	.3	.2	.3	.3	.1	.2	.0	.2	.2	2.7
	NO PCP	5.0	6.9	3.3	1.6	.8	1.1	.6	.9	.0	.6	.6	16.8
	TOT %	5.4	7.6	3.6	1.8	1.1	1.4	.7	1.1	.0	.8	.8	21.5
10+	PCP	.2	.4	.3	.1	.2	.3	.1	.1	.0	.1	.1	1.6
	NO PCP	11.1	27.0	13.7	6.7	3.9	3.4	2.3	1.6	.0	2.1	2.1	72.9
	TOT %	11.2	28.2	14.1	6.8	4.1	3.7	2.4	1.7	.0	2.1	2.1	74.7
TOT OBS													2865
TOT PCT													14.9 37.0 18.4 9.1 5.6 5.4 3.5 2.9 .0 3.2 100.0

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
41/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.1	.4
2<5	0-3	.0	.1	.1	.1	.0	.1	.0	.0	.0	.1	.3	
	4-10	.1	.3	.2	.2	.2	.1	.0	.1	.0	.0	1.2	
	11-21	.1	.2	.2	.1	.1	.1	.0	.0	.0	.0	.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.3	.6	.5	.4	.3	.3	.1	.2	.0	.1	2.7	
5<10	0-3	.3	.4	.2	.1	.1	.1	.1	.2	.0	.0	2.3	
	4-10	1.0	1.8	1.4	1.0	.6	.6	.4	.4	.0	.0	7.5	
	11-21	1.0	2.6	1.1	.4	.2	.2	.1	.1	.0	.0	5.6	
	22+	.2	.4	.1	.1	.1	.1	.0	.0	.0	.0	.9	
	TOT %	2.5	5.2	2.8	1.6	1.1	1.1	.6	.6	.0	.0	16.8	
10+	0-3	.9	1.3	1.6	.9	.9	.6	.3	.3	.0	3.1	10.2	
	4-10	4.3	12.3	9.3	4.6	3.1	2.3	1.8	1.2	.0	.0	37.7	
	11-21	3.7	14.2	3.6	1.3	.9	1.0	.6	.3	.0	.0	27.7	
	22+	.0	1.1	.2	.1	.1	.1	.0	.1	.0	.0	2.3	
	TOT %	11.0	29.0	14.8	6.9	5.0	4.2	3.0	2.1	.0	3.1	78.9	
TOT OBS													3221
TOT PCT													14.6 38.0 18.3 9.0 6.3 5.7 3.7 2.1 .0 4.1 100.0

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1957-1973

AREA 0009 RIO DE JANEIRO
22.7S 41.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <3/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
0000	.7	.2	.4	4.3	7.2	6.3	2.7	.9	.0	.5	23.4	76.6	552
0600	1.2	.0	1.0	3.9	.7	4.9	3.5	.2	.0	1.4	27.2	72.8	489
1200	.2	.0	.0	3.6	9.7	6.6	2.3	.9	.4	1.5	26.6	73.4	527
1800	.0	.0	1.3	3.3	3.4	3.8	2.0	.9	.0	1.1	20.6	79.4	539
TOT	11	3	17	91	164	123	93	16	3	24	513	1594	2107
PCT	.3	.2	.8	4.3	7.3	3.9	2.6	.8	.2	1.1	24.3	79.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/8	1/8-1/4	1/4-1/2	1/2-3/4	3/4-1	10+	TOTAL OBS
0000	.2	.2	.7	3.4	17.3	78.1	1082
0600	.3	.3	.8	3.0	17.8	78.0	1116
1200	.3	.1	.3	2.1	16.9	80.1	1348
1800	.3	.1	.0	1.9	14.1	83.6	1008
TOT	14	10	24	141	806	4229	5904
PCT	.3	.2	.9	2.7	16.7	79.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <500	<100 <1	<1000 <1	NH <3/8 AND 3+	TOTAL OBS
0000	.8	1.6	7.2	18.0	74.8
0600	1.3	2.2	9.8	18.9	71.3
1200	.2	1.9	7.2	22.3	70.3
1800	.0	2.0	6.9	13.7	77.4
TOT	11	37	190	364	1430
PCT	.6	1.9	7.7	16.7	79.6

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 PRSQ
96/94	.0	.0	.0	.1	.2	.0	.0	.0	8	.4
85/89	.0	.0	.0	.2	.8	1.8	.3	.3	76	3.6
80/84	.0	.0	.0	.0	1.6	14.3	12.6	3.8	690	32.3
75/79	.0	.0	.0	.2	1.1	7.1	27.1	18.9	1133	54.4
70/74	.0	.0	.0	.0	.1	.4	2.8	.7	190	9.9
65/69	.0	.0	.0	.0	.0	.0	.0	.1	3	.1
60/64	.0	.0	.0	.0	.0	.0	.0	.1	3	.1
TOTAL	0	0	1	12	80	509	911	612	2122	100.0
PCT	.0	.0	.0	.6	3.8	24.0	42.9	28.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
96/94	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0
85/89	.0	1.1	.8	.4	.1	.0	.1	.2	.0	.1
80/84	6.3	13.9	5.2	2.3	1.2	1.0	.7	.9	.0	.8
75/79	7.0	19.8	10.0	3.3	3.4	3.3	1.7	1.2	.0	2.0
70/74	1.0	3.6	1.7	.3	.6	.6	.8	.2	.0	.3
65/69	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
60/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	15.2	38.6	17.8	8.0	5.3	5.2	3.2	2.3	.0	3.4

TABLE 15

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

HOUR (GMT)	MAX	95%	90%	75%	50%	25%	MIN	MEAN	TOTAL OBS
0000	89	84	82	78	73	70	46	77.6	2981
0600	90	82	81	77	72	69	65	76.8	1886
1200	93	87	85	79	74	71	63	79.1	2833
1800	93	89	86	80	73	72	64	80.3	1968
TOT	95	87	84	78	73	70	63	78.4	9276

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.3	2.7	16.1	45.9	38.0	86	828		
0600	.0	.0	1.0	12.0	45.9	41.1	87	484		
1200	.0	.8	5.9	26.3	41.8	27.2	84	596		
1800	.0	1.3	6.0	42.4	36.3	11.8	80	474		
TOT	0	13	83	517	932	637	84	2182		

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1857-1973

AREA 0009 RIO DE JANEIRO
22.75 41.5W

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	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WU FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.2
11/13	.0	.0	.0	.0	.2	.2	.3	.0	.0	19	.0	.8
9/10	.0	.0	.0	.0	.4	.3	.1	.2	.0	25	.0	1.0
7/8	.0	.0	.0	.3	.3	.9	.7	.1	.0	61	.1	2.4
6	.0	.0	.1	.4	.9	.7	.2	.1	.0	59	.0	2.4
5	.0	.0	.1	.5	1.2	1.2	.6	.0	.0	86	.0	3.3
4	.0	.1	.0	1.0	1.6	2.0	.3	.0	.0	122	.0	5.0
3	.0	.0	.1	1.1	2.4	1.9	.4	.0	.0	145	.1	5.9
2	.0	.0	.2	1.4	4.8	3.6	.2	.0	.0	248	.1	10.1
1	.0	.0	.1	2.3	7.7	3.1	.0	.0	.0	320	.1	12.2
0	.0	.0	.3	3.3	11.0	3.6	.1	.0	.0	442	.1	18.2
-1	.0	.0	.4	2.7	8.7	1.9	.0	.0	.0	332	.1	13.6
-2	.0	.0	.2	3.1	5.7	.7	.0	.0	.0	233	.1	9.5
-3	.0	.0	.2	1.8	2.9	.3	.0	.0	.0	119	.0	4.9
-4	.0	.0	.1	1.9	1.7	.1	.0	.0	.0	91	.0	3.7
-5	.0	.0	.3	.9	.7	.0	.0	.0	.0	46	.0	1.9
-6	.0	.0	.0	.7	.2	.0	.0	.0	.0	23	.0	1.0
-7/-8	.0	.0	.4	.4	.2	.0	.0	.0	.0	25	.0	1.0
-9/-10	.0	.0	.0	.2	.0	.0	.0	.0	.0	7	.0	.3
-11/-13	.1	.0	.2	.0	.0	.0	.0	.0	.0	8	.0	.3
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	5	4	66	927	1229	502	71	12	2	2418	21	2397
PCT	.2	.2	2.7	21.8	50.8	20.8	2.9	.5	.1	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

HGT	N						PCT	NE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.7	.0	1.3	.1	.0	.0	.0	.0	2.0
1-2	.3	1.3	.9	.0	.0	.0	4.4	.5	8.0	3.6	.0	.0	.0	.0	12.1
3-4	.0	1.2	3.7	.2	.0	.0	5.2	.0	4.4	7.8	.3	.0	.0	.0	12.8
5-6	.0	.2	2.3	.2	.1	.0	2.8	.0	.7	6.2	.3	.0	.0	.0	7.4
7	.0	.0	1.2	.3	.0	.0	1.7	.0	.1	1.9	.4	.0	.0	.0	2.4
8-9	.0	.0	.2	.2	.0	.0	.8	.0	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.3	8.9	1.2	.1	.0	13.8	1.1	14.6	19.7	1.9	.0	.0	.0	37.3

HGT	E						PCT	SE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	1.2
1-2	.3	5.7	1.6	.0	.0	.0	7.9	.1	6.4	.9	.0	.0	.0	.0	9.4
3-4	.0	1.8	2.6	.1	.0	.0	4.6	.0	1.1	1.3	.0	.0	.0	.0	2.4
5-6	.0	.2	1.2	.1	.0	.0	1.5	.0	.3	.3	.2	.0	.0	.0	.7
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.1	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	9.2	5.9	.3	.0	.0	16.5	.4	6.7	2.3	.3	.0	.0	.0	9.9

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY

AREA 0009 RIO DE JANEIRO
22.7S 41.5W

TABLE 18 (CONT)

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.3	.1	.0	.0	.0	.8	.5	.2	.0	.0	.0	.0	1.0
1-2	.3	1.7	.2	.0	.0	.0	2.8	.1	1.4	.9	.0	.0	.0	2.4
3-4	.0	.7	.8	.0	.0	.0	1.5	.0	.7	.6	.0	.0	.0	1.4
5-6	.0	.1	.2	.2	.0	.0	.3	.0	.2	.4	.1	.0	.0	.8
7	.0	.2	.1	.0	.0	.0	.3	.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	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.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	.3	3.2	1.9	.3	.0	.0	9.9	.4	2.8	2.2	.1	.0	.0	5.7

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.1	.0	.0	.0	.0	.4	.0	.1	.0	.0	.0	.0	.2	
1-2	.3	1.0	.3	.0	.0	.0	1.6	.0	.2	.0	.0	.0	.0	.9	
3-4	.0	.2	.3	.1	.0	.0	1.0	.0	.2	.9	.0	.0	.0	.2	
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.1	.8	.0	.0	.0	.1	
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	1.8	1.0	.1	.0	.0	3.3	.2	1.1	.1	.1	.0	.0	1.3	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.6	3.3	.2	.0	.0	.0	.0	13.4
1-2	2.3	26.1	8.6	.0	.0	.0	.0	37.0
3-4	.1	10.7	16.8	.9	.0	.0	.0	28.5
5-6	.0	1.4	10.6	1.3	.1	.0	.0	13.7
7	.0	.4	3.3	1.1	.0	.0	.0	4.9
8-9	.0	.0	.7	.2	.0	.0	.0	1.2
10-11	.0	.1	.1	.1	.0	.0	.0	.7
12	.0	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.2	.1	.0	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	10.1	46.3	41.1	4.2	.1	.0	100.0	832

PERIOD: (OVER-ALL) 1963-1973

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT		
46	2.9	15.3	15.0	8.8	1.2	.4	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	679	3	
6-7	.1	2.9	9.3	10.2	3.7	1.3	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	483	3
8-9	.0	.8	2.3	2.4	2.3	.6	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	130	3
10-11	.0	.8	.4	.6	.7	.6	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97	6
12-13	.0	.0	.9	.3	.4	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	6
15-19	.0	.0	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	7
INDEX	3.1	3.9	4.2	1.5	1.2	.5	.2	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	242	3
TOTAL	99	369	321	342	199	61	39	11	6	2	0	0	0	0	0	0	0	0	0	0	0	1629	4
PCT	6.1	23.9	22.0	21.0	9.8	3.7	2.4	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1919-1973
(OVER-ALL) 1862-1973

MARCH

AREA 0009 RIO DE JANEIRO
22.05 41.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAUL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLNG DUST	SPRAY BLNG SNOW	NO SIG MEA
N	3.9	1.0	.2	.0	.0	.0	.0	5.2	4.2	3.8	1.0	.0	1.4	.3	.0	84.7
NE	2.0	2.1	.6	.0	.0	.0	.0	4.4	1.5	3.3	.0	.0	.7	.0	.0	89.6
E	2.8	2.1	.7	.0	.0	.0	.0	8.0	1.5	3.4	1.1	.0	.4	.0	.0	88.6
SE	6.3	1.9	1.9	.0	.0	.0	.0	10.1	2.3	2.9	.2	.0	.3	.0	.0	85.1
S	9.0	3.0	1.4	.0	.0	.0	.4	9.8	4.2	3.3	.3	.4	.8	.3	.0	81.6
SW	4.2	6.4	3.4	.0	.0	.0	.0	13.9	3.1	2.3	1.3	.0	1.1	.1	.0	76.3
W	9.9	3.1	4.0	.0	.0	.0	.0	19.0	7.4	3.4	1.4	.0	.0	.0	.0	66.9
NW	10.9	3.0	1.7	.0	.0	.0	.0	16.2	2.0	1.1	1.1	.0	2.3	.0	.0	77.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0	.0	1.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	6.0	.0	.0	85.0
TOT PCT	3.8	2.4	1.1	.0	.0	.0	*	7.3	2.5	3.1	1.0	*	1.0	.1	.0	85.4
TOT OBS:	2710															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAUL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLNG DUST	SPRAY BLNG SNOW	NO SIG MEA
0000	5.6	2.4	2.3	.0	.0	.0	.0	10.2	1.4	8.7	.4	.0	.3	.0	.0	79.9
0600	4.7	3.3	1.3	.0	.0	.0	.0	8.3	4.3	3.4	1.8	.2	.6	.3	.0	81.2
1200	2.9	2.0	.8	.0	.0	.0	.1	6.1	2.9	.2	1.4	.1	1.7	.0	.0	87.7
1800	1.9	2.3	.6	.0	.0	.0	.0	4.8	1.3	.2	.6	.0	.8	.0	.0	92.3
TOT PCT	3.8	2.4	1.2	.0	.0	.0	*	7.4	2.5	3.2	1.0	.1	1.0	.1	.0	85.2
TOT OBS:	2768															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT PASS	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	1.2	4.9	4.8	.6	.0	.0		11.4	10.7	6.4	8.4	11.2	16.4	16.8	16.8	10.5	11.2
NE	1.8	10.4	12.0	1.0	.0	.0		25.8	10.8	28.2	30.0	31.8	26.8	31.5	25.4	29.3	25.4
E	3.1	11.7	3.3	.3	.0	.0		19.4	8.9	23.9	23.2	19.6	18.7	16.6	19.3	19.4	23.4
SE	1.3	7.3	3.1	.3	.0	.0		12.4	9.1	16.4	13.8	11.0	13.0	8.6	10.9	13.8	13.6
S	1.2	6.7	2.2	.2	.0	.0		8.4	8.9	10.0	7.7	7.0	9.3	6.8	7.4	11.5	10.6
SW	.9	3.6	2.2	.2	.0	.0		7.0	9.2	4.7	3.7	3.4	3.3	8.1	8.0	8.3	3.7
W	.9	1.9	.8	.1	.0	.0		3.7	7.8	2.9	3.4	3.9	4.8	4.2	3.4	2.4	2.4
NW	.7	1.9	.8	.0	.0	.0		3.4	7.7	1.8	2.9	3.8	4.8	4.3	3.3	2.2	6.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.3							4.3	.0	3.8	3.0	4.2	6.7	3.1	4.4	2.4	.8
TOT OBS	1488	3120	3214	296	13	0	10131	4.3	9.2	1331	1331	1301	119	1771	1439	1362	123
TOT PCT	14.7	30.3	31.7	2.9	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT PASS	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	3.2	6.1	2.0	.1	.0		11.4	10.7	7.3	11.5	13.9	10.6
NE	7.1	17.8	4.7	.2	.0		29.8	10.8	26.9	31.5	30.1	29.0
E	7.3	10.4	1.4	.1	.0		19.4	8.9	23.9	19.6	13.0	19.7
SE	3.0	6.1	1.1	.2	.0		12.4	9.1	13.3	11.2	9.6	13.6
S	3.3	3.9	.9	.1	.0		8.4	8.9	9.0	6.9	7.1	11.4
SW	2.7	3.3	.7	.0	.0		7.0	9.2	4.2	3.4	3.0	3.1
W	1.8	1.6	.2	.0	.0		3.7	7.8	3.1	3.9	4.7	2.6
NW	1.8	1.3	.3	.0	.0		3.4	7.7	2.3	3.8	4.8	2.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.3						4.3	.0	4.3	4.2	4.8	2.3
TOT OBS	2747	3139	1183	31	1	10131	4.3	9.2	3132	2020	3224	1705
TOT PCT	37.0	30.7	11.7	.6	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1962-1973

MARCH

AREA 0009 RIO DE JANEIRO
22.0T 41.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

MOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000Z	4.3	9.2	32.6	31.0	2.8	.1	.0	9.2	100.0	2182
0600Z	6.2	8.8	31.0	31.0	2.3	.1	.0	9.1	100.0	2020
1200Z	4.8	12.7	47.1	31.8	3.3	.2	.0	9.1	100.0	3224
1800Z	2.3	8.8	32.6	33.0	3.2	.1	.0	9.6	100.0	1709
TOT	4.8	10.2	31.2	32.1	2.9	.1	.0	9.2		10131
PCT	4.5	10.2	30.5	31.7	2.9	.1	.0	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	15.8	7.2	7.3	2.9		3.2
E	8.8	4.3	4.7	2.8		3.3
SE	3.1	2.1	3.0	2.5		4.6
S	1.7	1.7	3.1	2.0		3.1
SW	.9	1.0	2.4	1.9		3.6
W	.4	.8	1.0	1.1		6.0
NW	.3	.8	.8	.6		3.1
VAR	.0	.0	.0	.0		.0
CALM	1.8	.6	1.3	.4	2912	4.0
TOT OBS	731	414	327	330	2912	4.0
TOT PCT	36.3	20.6	26.7	16.4	100.0	

TABLE 6

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER	CEILING HEIGHTS (FT, MM >4/8)											NM ANY HGT	TOTAL OBS
							000	100	200	300	400	1000	2000	3000	3000	4000	5000			6000+
N	.1	.0	.1	.8	1.2	.3	.9	.0	.1	.1	.1	.1	.1	.1	.1	.1	9.2		
NE	.1	.0	.3	.6	1.1	1.1	.4	.1	.1	.1	.1	.1	.1	.1	.1	.1	29.0		
E	.0	.0	.1	.9	1.4	1.0	.9	.1	.1	.1	.1	.1	.1	.1	.1	.1	16.4		
SE	.0	.1	.3	.6	1.1	1.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	6.9		
S	.0	.0	.1	.8	1.2	.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3		
SW	.0	.0	.2	.7	1.2	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	3.3		
W	.1	.0	.0	.0	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6		
NW	.0	.0	.0	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6		
VAR	.0	.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	.0	2.9		
TOT OBS	8	9	22	97	162	107	41	16	7	14	133	2012	2012			2012			
TOT PCT	.4	.1	1.1	4.8	8.1	5.3	2.0	.8	.3	.7	76.3	100.0	100.0						

TABLE 7

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

CEILING (FEET)	VSBY (NM)								
	>10	>8	>6	>4	>3	>2	>1.5	>1	>0.5
>4500	1.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>3000	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>2500	2.9	2.9	4.1	4.1	4.1	4.1	4.1	4.1	4.1
>2000	6.3	6.3	9.3	9.4	9.4	9.4	9.4	9.4	9.4
>1000	12.0	16.4	17.4	17.8	17.8	17.8	17.8	17.8	17.8
>400	15.2	20.8	22.0	22.2	22.2	22.2	22.2	22.2	22.2
>300	15.7	21.8	23.0	23.2	23.2	23.2	23.2	23.2	23.2
>150	15.8	21.6	23.1	23.4	23.4	23.4	23.4	23.4	23.4
>0	15.8	21.7	23.4	23.8	23.8	23.8	23.8	23.8	23.8
TOTAL	324	447	482	489	489	489	489	491	491

TOTAL NUMBER OF OBS: 2057

PCT FREQ NM < 8/8: 76.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.7	19.9	18.3	11.1	8.2	4.0	6.0	3.1	9.3	.4	2150

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1862-1973

MARCH

AREA 0009 RIO DE JANEIRO
22.63 41.4W

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.3	
	TOT S	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	TOT S	.2	.0	.1	.0	.1	.0	.0	.1	.0	.0	.6	
2<3	PCP	.2	.2	.1	.1	.1	.2	.0	.1	.0	.0	1.0	
	NO PCP	.7	.4	.5	.4	.2	.2	.0	.2	.0	.1	2.6	
	TOT S	.9	.6	.6	.5	.3	.4	.0	.2	.0	.1	3.6	
3<10	PCP	.2	.8	.6	.6	.3	.3	.4	.4	.0	.0	4.0	
	NO PCP	1.4	3.9	2.7	1.8	1.4	1.6	1.0	.9	.0	1.1	13.8	
	TOT S	1.7	4.7	3.3	2.4	1.7	2.1	1.4	1.3	.0	1.1	17.8	
10+	PCP	.1	.4	.3	.2	.3	.2	.1	.0	.0	.0	1.8	
	NO PCP	8.6	28.2	19.3	7.3	6.4	4.1	1.6	1.7	.0	2.4	73.8	
	TOT S	8.8	28.6	19.6	7.5	6.8	4.3	1.8	1.7	.0	2.4	75.7	
TOT OBS													2707
TOT PCT													11.6 32.0 19.6 10.8 8.9 6.9 3.3 3.3 .0 3.7 100.0

TABLE 9

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

VSBY (MM)	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	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.6	
2<3	0-3	.2	.1	.0	.0	.1	.0	.0	.1	.0	.1	.5	
	4-10	.2	.2	.2	.2	.1	.2	.1	.1	.0	.1	1.3	
	11-21	.2	.2	.1	.1	.1	.2	.0	.0	.0	.0	.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT S	.8	.6	.6	.6	.6	.6	.4	.1	.1	.1	2.9	
3<10	0-3	.2	.3	.2	.2	.2	.2	.2	.2	.0	.8	2.4	
	4-10	.5	1.3	1.4	1.0	.9	.7	.8	.4	.0	.6	6.4	
	11-21	.7	1.6	.7	.3	.3	.3	.3	.2	.0	.4	4.2	
	22+	.1	.2	.1	.2	.1	.0	.0	.0	.0	.0	.7	
	TOT S	1.4	3.3	2.3	2.0	1.4	1.4	1.0	.8	.0	.3	14.4	
10+	0-3	.8	1.4	1.6	1.0	.8	.7	.4	.4	.0	3.2	10.2	
	4-10	4.0	13.9	10.8	5.9	3.6	2.3	1.2	1.2	.0	4.2	42.8	
	11-21	3.8	12.6	5.0	2.3	1.7	1.4	.4	.2	.0	.0	17.5	
	22+	.3	.7	.2	.1	.1	.1	.0	.0	.0	.0	1.9	
	TOT S	8.8	26.3	17.3	9.2	6.2	4.6	2.0	1.8	.0	3.7	81.7	
TOT OBS													2419
TOT PCT													10.9 32.4 20.2 11.8 8.0 6.4 3.2 2.8 .0 3.2 100.0

MARCH

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1862-1973

AREA 0009 RIO DE JANEIRO
22.65 41.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND OCCURRENCE OF NM <3/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
0000Z	.7	.2	.5	4.7	8.2	9.1	2.9	.7	.4	.7	24.1	75.9	331
0600Z	.8	.4	1.0	6.9	7.3	3.3	3.0	.4	.6	.8	26.5	73.5	309
1201Z	.2	.0	1.7	4.1	9.7	3.6	1.1	.6	.2	1.3	24.0	74.0	337
1802Z	.0	.0	1.0	2.9	7.1	3.0	1.7	1.3	.2	.6	19.7	80.3	323
TOT	9	3	22	98	169	111	46	16	7	18	499	1617	2116
PCT	.4	.1	1.0	4.6	8.0	5.2	2.2	.8	.3	.9	23.6	78.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL
0000Z	.2	.1	.8	3.2	13.8	81.9	100.2
0600Z	.2	.3	.9	3.3	14.6	80.6	110.0
1201Z	.4	.1	.6	3.2	16.3	79.5	103.3
1802Z	.2	.0	.3	1.3	12.8	85.2	103.3
TOT	14	6	36	140	799	4483	3499
PCT	.3	.1	.7	2.9	14.3	81.3	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NM <3/8	TOTAL
0000Z	.7	1.7	7.8	17.3	75.0	339
0600Z	.8	2.3	12.3	16.0	71.8	489
1201Z	.2	2.1	10.0	16.7	73.3	320
1802Z	.0	1.0	3.1	13.3	79.4	309
TOT	9	37	180	337	1340	2037
PCT	.4	1.8	8.8	16.4	74.9	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	PCT
00/00	.0	.0	.0	.0	.0	.0	.0	.0	1	.6
06/06	.0	.0	.1	.1	.0	.0	.0	.0	8	.2
09/09	.0	.0	.1	.2	1.3	.4	.0	.0	38	2.7
09/09	.0	.0	.2	2.7	12.2	12.7	3.1	.0	480	30.9
12/12	.0	.0	.4	2.4	10.8	28.4	16.2	.0	1243	38.3
18/18	.0	.0	.1	.4	.8	3.3	3.0	.0	106	7.8
00/00	.0	.0	.0	.0	.0	.0	.0	.0	1	.6
TOTAL	0	0	1	20	139	532	938	496	2132	100.0
PCT	.0	.0	.0	.9	6.5	25.2	44.0	23.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

HR	N	NE	E	SE	S	SW	W	NW	VAR	CALN
0000Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
0600Z	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
1201Z	.0	1.1	.3	.7	.1	.1	.0	.0	.0	.2
1802Z	0.0	12.2	3.9	1.7	2.2	1.4	.6	.9	.0	.8
TOT	0.2	17.2	11.2	7.7	6.3	4.2	1.9	1.8	.0	2.7
PCT	.7	1.9	1.2	1.1	.8	1.0	.3	.3	.0	.3
TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT	11.6	32.8	16.9	10.6	9.4	6.7	3.1	3.2	.0	4.0

TABLE 15

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

HR	MAX	95%	90%	50%	5%	MIN	MEAN	TOTAL
0000Z	90	83	82	78	73	71	87	3140
0600Z	87	82	81	77	73	70	80	2012
1201Z	93	86	85	79	74	72	87	3123
1802Z	93	89	88	80	75	73	87	1824
TOT	93	86	84	78	73	71	80	9901

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
0000Z	.0	.0	.0	.0	.0	.0	.0	.0	84	63
0600Z	.0	.0	.0	.0	.0	.0	.0	.0	33.8	86
1201Z	.0	1.0	7.4	28.4	47.1	18.1	.0	.0	82	63
1802Z	.0	1.9	10.9	37.9	36.9	12.4	.0	.0	80	477
TOT	0	21	141	532	969	518	83	2201		

MARCH

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1862-1973

AREA 0009 RIO DE JANEIRO
22.8S 41.4W

TABLE 17

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

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	83 88	89 92	>92	TOT	N FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.
14/16	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.
11/13	.0	.0	.0	.0	.0	.0	.0	.0	7	.	.3
9/10	.0	.0	.0	.2	.3	.1	.2	.0	21	.0	.9
7/8	.0	.1	.1	.0	.3	.3	.1	.0	33	.0	1.3
5	.0	.0	.0	.3	.3	.2	.0	.0	20	.0	1.1
4	.0	.1	.3	.0	1.3	.1	.0	.0	39	.0	2.3
3	.0	.1	.3	2.4	1.3	.4	.0	.0	119	.0	3.0
2	.0	.0	.0	2.0	1.3	.0	.0	.0	122	.1	3.0
1	.0	.1	1.0	3.1	3.4	.4	.0	.0	231	.	10.6
0	.0	.0	2.2	8.2	2.9	.1	.0	.0	316	.3	13.0
-1	.0	.1	3.4	10.8	3.3	.1	.0	.0	423	.2	17.7
-2	.0	.1	3.3	10.2	1.4	.0	.0	.0	336	.1	14.9
-3	.0	.1	3.0	6.7	.3	.0	.0	.0	204	.	10.3
-4	.0	.1	1.7	3.0	.3	.0	.0	.0	164	.	6.0
-5	.0	.1	2.2	1.7	.1	.0	.0	.0	98	.1	4.1
-6	.0	.0	1.3	.9	.2	.0	.0	.0	39	.0	2.3
-7	.0	.0	.9	.1	.0	.0	.0	.0	26	.0	1.1
-8	.0	.1	1.2	.3	.0	.0	.0	.0	41	.0	1.7
-9/-10	.0	.1	.4	.	.0	.0	.0	.0	13	.0	.3
-11/-13	.0	.	.	.	.0	.0	.0	.0	2	.0	.1
-14/-16	.0	.0	.	.	.0	.0	.0	.0	1	.0	.
-17/-19	.0	.0	.	.	.0	.0	.0	.0	1	.0	.
TOTAL	2	18	349	1297	418	33	10	1	2368	23	2343
PCT	.1	1.3	23.2	34.8	17.7	2.3	.4	.0	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

HGT	N							PCT	SE						
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+		
41	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	1.4
1-3	.0	.0	.0	.0	.0	.0	6.1	.0	.0	.0	.0	.0	.0	.0	11.6
3-4	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0	6.1
5-6	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	3.2
7	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	3.2
8-9	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	1.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	6.3	.7	.0	.0	19.0	1.0	11.3	16.2	1.0	.0	.0	.0	29.6

HGT	S							PCT	SE						
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+		
41	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	1.0
1-3	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0	3.9
3-4	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	3.6
5-6	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	1.6
8-9	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	10.2	3.1	.3	.0	.0	16.8	.6	7.8	3.3	.2	.0	.0	.0	11.1

PERIOD: (OVER-ALL) 1963-1973

MARCH

TABLE 10 (CONTY)

AREA 0009 RIO DE JANEIRO
22.0S 41.4W

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.7	.0	.0	.0	.0	.9	.3	.2	.0	.0	.0	.0	.4
1-2	.1	4.1	.6	.0	.0	.0	4.8	.5	1.8	.7	.0	.0	.0	2.0
3-4	.0	1.0	.8	.0	.0	.0	1.8	.0	.9	1.4	.0	.0	.0	2.1
5-6	.0	.4	.8	.1	.0	.0	1.1	.0	.7	.9	.1	.0	.0	1.2
7	.0	.2	.8	.1	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	6.6	2.8	.3	.0	.0	9.8	.8	2.6	3.2	.2	.0	.0	6.8

HGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.3	.0	.0	.0	.0	.3	.1	.1	.0	.0	.0	.0	.2
1-2	.0	.8	.3	.0	.0	.0	1.1	.3	.9	.2	.0	.0	.0	1.5
3-4	.0	.4	.3	.0	.0	.0	.8	.0	.8	.1	.0	.0	.0	.9
5-6	.0	.1	.1	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.6	.8	.0	.0	.0	2.4	.4	1.8	.8	.0	.0	.0	2.4

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	4.2	.1	.0	.0	.0	12.3	12.3
1-2	7.9	29.8	9.1	.0	.0	.0	41.8	41.8
3-4	.0	10.2	17.0	.3	.0	.0	27.7	27.7
5-6	.0	1.7	10.0	1.1	.0	.0	12.8	12.8
7	.0	.7	2.9	.2	.0	.0	3.9	3.9
8-9	.0	.0	.4	.4	.0	.0	.7	.7
10-11	.0	.0	.1	.4	.0	.0	.5	.5
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	11.0	46.8	39.7	.6	.0	.0	100.0	802

PERIOD: (OVER-ALL) 1963-1973

TABLE 10

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	TOTAL	MEAN HGT
<1	3.2	16.2	17.3	5.9	1.8	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	799	3
1-2	.1	3.1	10.0	8.8	2.4	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	429	4
3-4	.2	.7	2.9	2.8	2.2	1.1	.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	179	6
5-6	.0	.4	.6	.9	1.0	.3	.8	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	89	6
7	.0	.0	.0	.3	.0	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	6
INDEX	3.3	2.8	3.1	2.1	1.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	6
TOTAL	115	248	377	261	146	32	37	9	8	0	0	0	0	0	0	0	0	0	213	3
PCT	6.6	22.9	34.1	21.3	8.6	3.1	2.2	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	4

APRIL

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1860-1973

AREA 0009 RIO DE JANEIRO
27.78 41.4M

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE MAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	1.4	.9	1.0	.0	.0	.0	.0	3.4	.8	1.8	1.3	.3	.7	.3	91.3
NE	1.9	1.3	.1	.0	.0	.0	.0	3.3	1.9	2.4	2.3	.4	.4	.2	89.1
E	2.3	3.6	.8	.0	.0	.0	.0	6.8	4.2	2.1	1.0	.0	.7	.0	83.3
SE	6.9	4.8	2.9	.0	.0	.0	.0	14.3	4.4	.9	.0	.0	.3	.0	80.2
S	2.9	1.9	1.1	.0	.0	.0	.0	5.7	5.3	2.9	.8	.0	1.1	.2	84.8
SW	2.7	2.2	1.2	.0	.0	.0	.0	6.2	3.4	1.7	1.0	.0	1.3	.1	80.2
W	4.1	2.6	1.3	.0	.0	.0	.0	8.1	2.1	2.8	1.7	.0	.9	.0	84.4
NW	3.0	4.3	2.3	.0	.0	.0	.0	9.6	.4	1.3	.0	.0	.4	.0	87.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9	.0	.9	.0	.0	.0	.0	2.8	.9	1.9	.9	.0	1.9	.0	91.7
TOT PCT	3.1	2.6	1.2	.0	.0	.0	.0	6.8	3.3	2.0	1.1	.0	.7	.1	86.0
TOT OBS:	2913														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE MAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0600	3.2	2.9	1.4	.0	.0	.0	.0	7.3	2.7	4.4	1.2	.0	.4	.0	84.2
0600	4.1	2.8	1.3	.0	.0	.0	.0	7.4	4.9	3.8	.9	.0	.1	.0	82.9
1200	3.2	3.2	.6	.0	.0	.0	.0	6.8	2.6	.0	1.0	.1	1.2	.3	87.9
1800	1.6	2.2	1.4	.0	.0	.0	.0	3.0	3.1	.2	1.2	.0	1.2	.0	89.3
TOT PCT	3.0	2.6	1.1	.0	.0	.0	.0	6.7	3.3	2.1	1.1	.0	.8	.1	86.1
TOT OBS:	3019														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					40+	TOTAL OBS	PCT PRES	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47					00	03	06	09	12	15	18	21
N	1.2	4.4	3.8	.3	.0	.0	9.1	9.7	6.1	6.4	9.0	12.2	13.3	12.6	7.3	6.4
NE	1.0	11.3	7.3	.7	.0	.0	21.4	9.9	19.4	25.9	23.7	20.3	23.0	20.3	20.0	19.3
E	2.1	10.9	4.9	.2	.0	.0	19.2	8.7	21.0	22.4	18.7	17.3	14.7	19.1	17.4	18.8
SE	1.8	9.9	5.3	.3	.0	.0	18.6	9.6	20.3	17.6	14.7	16.1	13.8	15.9	17.1	19.1
S	1.7	6.6	3.6	.3	.0	.0	12.3	9.3	15.4	11.3	10.4	11.8	10.6	11.3	13.3	14.3
SW	.0	3.1	2.9	.7	.0	.0	9.3	10.3	6.6	7.6	8.8	10.6	10.2	9.6	12.0	11.1
W	.7	2.2	1.3	.3	.0	.0	4.7	9.3	3.9	4.1	3.6	4.3	3.8	3.4	4.3	3.2
NW	.9	1.7	.9	.2	.0	.0	3.3	9.1	1.8	3.7	3.3	3.0	4.2	4.9	2.8	3.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8	.0	.0	.0	.0	.0	4.8	.0	4.2	3.8	3.6	2.1	4.4	3.3	2.8	.7
TOT OBS	1624	3417	3033	343	21	1	10439	9.1	1839	1389	1930	146	1793	1340	1624	149
TOT PCT	13.3	31.8	29.0	3.3	.7	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT PRES	MEAN SPD	HOUR (GMT)					
	0-6	7-10	17-27	28-40					00	06	12	18	21	
N	3.3	4.3	1.2	.1	.0	9.1	9.7	6.3	9.2	12.7	7.4			
NE	6.7	11.9	2.6	.2	.0	21.4	9.9	20.0	23.3	21.8	20.3			
E	7.8	9.8	1.4	.0	.0	19.2	8.7	21.0	18.0	14.9	17.3			
SE	3.9	8.6	2.0	.1	.0	16.6	9.6	19.3	14.8	14.8	17.3			
S	4.7	3.9	1.7	.2	.0	12.3	9.3	13.0	10.3	10.9	13.4			
SW	3.2	4.7	1.3	.2	.0	9.3	10.3	8.2	9.0	9.9	11.9			
W	1.9	2.0	.6	.1	.0	4.7	9.3	3.3	3.3	3.6	4.4			
NW	1.8	1.2	.3	.1	.0	3.3	9.1	2.4	3.4	4.6	3.0			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	4.8	.0	.0	.0	.0	4.8	.0	4.9	3.4	4.9	2.6			
TOT OBS	4860	3099	1190	103	3	10439	9.1	3248	2096	3342	1773			
TOT PCT	38.8	48.8	11.4	1.0	.0	100.0		100.0	100.0	100.0	100.0			

APRIL

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1860-1973

AREA 0009 RIO DE JANEIRO
22.75 41.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT PREG	TOTAL OBS
				11-21	22-33	34-47	48+			
0000Z	4.9	10.3	33.6	27.8	3.1	.2	.0	8.9	100.0	3248
0600Z	3.4	11.3	32.2	27.7	3.3	.1	.0	8.9	100.0	2096
1200Z	4.9	11.3	49.2	30.3	3.8	.3	.0	9.2	100.0	3342
1800Z	2.6	10.3	32.8	30.3	3.6	.1	.0	9.4	100.0	1773
TOT	4.8	11.2	34.1	30.3	3.3	.2	.0	9.1		10459
PCT	4.8	10.9	31.8	29.0	3.3	.2	.0	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CLOUD OBS	MEAN CLOUD COVER
NE	10.3	4.3	3.7	1.9	3.2	3.2
E	6.9	3.4	3.0	2.7	3.9	3.9
SE	4.2	2.7	3.4	3.2	4.8	4.8
S	4.4	3.3	3.0	3.2	4.6	4.6
SW	3.3	2.3	4.1	1.8	4.5	4.5
W	.8	.3	2.0	.3	3.0	3.0
NW	.4	.7	.3	.3	4.3	4.3
VAR	.0	.0	.0	.0	.0	.0
CALM	1.0	.7	.2	.2	2.8	2.8
TOT OBS	724	392	399	292	2003	4.0
TOT PCT	26.1	19.6	29.7	14.6	100.0	

TABLE 6

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

WIND DIR	CEILING HEIGHTS (FT/M)										NM <5/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+		
N	.1	.0	.1	.0	.2	.3	.0	.0	.0	.0	.0	6.8
NE	.0	.0	.1	.9	1.3	1.0	.4	.1	.0	.2	.2	18.1
E	.1	.0	.1	1.3	1.8	.9	.4	.1	.0	.2	.2	12.9
SE	.2	.1	.3	1.1	1.8	1.1	.4	.2	.0	.1	.1	10.0
S	.0	.0	.2	1.3	1.8	1.3	.3	.0	.0	.1	.1	10.3
SW	.0	.1	.1	.9	.8	.8	.3	.1	.1	.1	.1	7.9
W	.0	.0	.0	.4	.3	.2	.1	.0	.0	.1	.1	2.4
NW	.0	.0	.0	.1	.2	.2	.0	.0	.0	.0	.0	1.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.1	.1	.1	.0	.0	.1	.0	.0	2.3
TOT OBS	12	3	24	131	173	122	30	11	9	18	1446	2003
TOT PCT	.4	.2	1.2	6.5	8.7	6.1	2.3	.5	.4	.9	72.2	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>8	>2	>1	>1/2	>1/4	>5000	>0
> OR >8000	1.2	1.4	1.4	1.4	1.3	1.3	1.3	1.3
> OR >6000	1.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0
> OR >4000	2.9	4.4	4.3	4.3	4.6	4.6	4.6	4.6
> OR >2000	4.4	10.0	10.3	10.4	10.4	10.4	10.4	10.4
> OR >1000	14.5	18.1	18.6	18.8	18.9	18.9	18.9	18.9
> OR >600	19.1	24.0	23.2	23.3	23.4	23.4	23.4	23.4
> OR >300	19.7	23.1	24.3	24.3	24.6	24.6	24.6	24.6
> OR >150	19.8	23.2	24.3	24.7	24.8	24.8	24.8	24.8
> OR >0	19.9	23.3	24.3	27.3	27.4	27.4	27.4	27.4
TOTAL	400	323	333	361	363	364	364	364

TOTAL NUMBER OF OBS: 2003

PCT FREE NM <5/8: 72.2

TABLE 7A

PERCENTAGE FREE OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.6	19.3	16.3	13.4	8.3	6.2	4.8	3.6	9.2	.5	2163

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1860-1973

APRIL

AREA 0009 RIO DE JANEIRO
22.75 41.4W

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.2
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.3
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	NO PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2
1<2	PCP	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.4
	NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2
	TOT %	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.6
2<3	PCP	.0	.1	.2	.4	.2	.1	.0	.1	.0	.0	.0	1.1
	NO PCP	.1	.4	.3	.3	.2	.4	.0	.0	.0	.0	.0	1.8
	TOT %	.1	.4	.3	.7	.4	.5	.0	.1	.0	.0	.0	2.8
3<10	PCP	.1	.3	.6	1.4	.3	.2	.3	.1	.0	.1	.1	3.6
	NO PCP	1.1	3.8	3.2	3.6	2.6	1.3	.8	.5	.0	.6	.6	17.5
	TOT %	1.2	4.3	3.8	5.0	2.9	1.5	1.0	.6	.0	.7	.7	21.1
10+	PCP	.1	.2	.4	.4	.3	.1	.0	.0	.0	.0	.0	1.4
	NO PCP	9.8	16.8	14.2	10.3	10.9	8.0	2.8	1.3	.0	3.0	.0	73.3
	TOT %	9.9	17.0	14.5	10.9	11.2	8.1	2.8	1.6	.0	3.0	.0	74.9
TOT OBS													2913
TOT PCT													7.4 21.0 19.1 16.8 14.6 10.4 4.0 2.3 .0 3.7 100.0

TABLE 9

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

VISBY (MM)	SPEED 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	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
	11-21	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.1	.1	.1	.0	.1	.1	.0	.0	.0	.1	.7
2<3	0-3	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.3
	4-10	.1	.2	.2	.2	.2	.2	.1	.1	.0	.0	.0	1.3
	11-21	.0	.1	.2	.3	.1	.2	.0	.0	.0	.0	.0	1.0
	22+	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.3
	TOT %	.1	.4	.5	.6	.4	.4	.1	.1	.0	.0	.0	2.8
3<10	0-3	.3	.3	.4	.3	.3	.2	.1	.1	.0	.6	.6	2.5
	4-10	.6	1.4	1.3	1.3	1.0	.7	.4	.3	.0	.0	.0	7.3
	11-21	.3	1.3	1.1	1.6	.7	.4	.2	.1	.0	.0	.0	5.7
	22+	.0	.0	.1	.1	.1	.2	.2	.1	.0	.0	.0	1.1
	TOT %	1.2	3.2	3.1	3.6	2.2	1.4	.9	.5	.1	.0	.6	16.6
10+	0-3	1.1	1.7	1.7	1.4	1.2	.5	.4	.3	.0	3.3	.0	11.8
	4-10	2.7	10.6	9.8	8.9	8.6	4.1	2.1	1.2	.0	.0	.0	42.6
	11-21	2.4	8.3	4.1	3.0	2.9	2.2	.7	.5	.0	.0	.0	22.3
	22+	.2	.4	.1	.2	.3	.3	.1	.0	.0	.0	.0	1.7
	TOT %	7.3	19.2	15.3	11.4	9.9	7.4	3.3	2.2	.0	3.3	.0	79.4
TOT OBS													5491
TOT PCT													2.7 23.0 19.1 15.7 12.6 9.5 4.4 3.0 .0 4.0 100.0

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1880-1973

APRIL

AREA 0009 RIO DE JANEIRO
22.7S 41.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/MH >4/8) AND OCCURRENCE OF MH <3/8 BY HOUR

HR (GMT)	000	130	200	300	400	1000	2000	3000	5000	6500	8000+	TOTAL	MH <3/8 ANY MGT	TOTAL OBS
0000	.7	.0	.9	7.4	9.6	6.6	1.5	.7	.2	.7	28.4	71.6	342	
0600	.8	.8	6.9	7.9	4.0	4.0	1.0	1.0	1.7	28.4	71.6	321		
1200	.2	.2	1.7	6.8	8.3	6.6	2.9	.2	.4	.8	27.8	72.2	349	
1800	.6	.0	1.4	4.3	7.2	3.7	1.4	.4	.4	.8	22.3	77.7	311	
TOT	12	9	29	124	179	122	52	12	10	20	367	1330	2117	
PCT	.6	.2	1.2	6.3	8.3	5.8	2.5	.6	.5	.9	26.8	79.2	100.0	

TABLE 11

PERCENT FREQUENCY VSBY (MH) BY HOUR

HR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	.2	.2	.5	2.5	19.0	77.9	1002
0600	.2	.3	1.1	3.7	16.7	78.2	1200
1200	.1	.1	.9	2.4	16.6	79.8	1099
1800	.3	.1	.3	2.7	14.9	81.7	1037
TOT	10	10	41	153	953	4429	3598
PCT	.2	.2	.7	2.8	17.0	79.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (MH) AND/OR CEILING MGT (FEET/MH >4/8) BY HOUR

HR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	MH <3/8 AND 3+	TOTAL OBS
0000	.8	1.8	11.6	19.0	69.3	325
0600	.8	2.6	12.1	18.5	69.4	305
1200	.2	2.1	11.4	19.1	69.5	328
1800	.6	2.0	8.4	15.4	76.2	499
TOT	12	44	224	371	1460	2033
PCT	.6	2.1	10.9	18.1	71.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.0	.0	.0	3	.1
85/89	.0	.0	.1	.2	.3	.0	.0	.0	21	1.0
80/84	.0	.1	.7	2.0	3.8	4.0	.0	.0	297	13.3
75/79	.0	.1	1.4	7.8	18.8	22.0	11.4	.0	1331	61.2
70/74	.0	.0	.8	2.8	6.0	6.6	7.3	.0	306	22.9
65/69	.0	.0	.0	.0	.1	.5	.5	.0	28	1.3
60/64	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
TOTAL	0	1	3	27	69	73	43	0	2207	100.0
PCT	.0	.0	.2	2.7	12.4	21.3	23.2	20.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
85/89	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
80/84	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0
75/79	2.3	4.1	2.3	1.3	1.0	.2	.6	.0	.4	.0
70/74	4.8	13.7	11.8	11.4	9.1	3.9	2.3	1.3	.0	2.1
65/69	.0	3.4	4.6	4.8	4.1	3.4	1.0	.4	.0	.0
60/64	.1	.1	.1	.3	.3	.1	.1	.0	.0	.0
TOTAL	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCT	7.7	21.6	18.8	17.6	14.9	9.9	3.7	2.2	.0	3.8

TABLE 15

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

HR (GMT)	MAX	95%	90%	50%	50%	1%	MIN	MEAN	TOTAL OBS
0000	87	82	80	76	71	69	54	76.0	3218
0600	95	82	80	75	71	68	62	75.4	2096
1200	95	86	83	77	72	69	64	77.3	3254
1800	90	87	84	78	73	70	59	78.3	1719
TOT	95	86	82	77	72	69	62	76.8	10287

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	1.4	10.8	28.8	36.0	23.0	.0	.0	32	680
0600	.0	1.8	9.7	27.8	34.2	26.4	.0	.0	32	303
1200	.0	2.3	12.2	31.3	31.9	21.2	.0	.0	30	670
1800	.0	3.8	16.4	39.1	29.8	8.9	.0	.0	26	463
TOT	0	67	278	720	760	467	0	0	80	2393

APRIL

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1860-1973

AREA 0009 RIO DE JANEIRO
22.7S 41.4W

TABLE 17

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

AIR-SEA TMP DIF	41 64	45 65	49 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	M FOG	HD FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
16/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
11/13	.0	.0	.0	.0	.1	.1	.0	.0	.0	7	.0	.3
9/10	.0	.0	.0	.2	.2	.3	.0	.0	.0	10	.0	.4
7/8	.0	.0	.0	.3	.3	.3	.1	.0	.0	28	.0	1.1
6	.0	.0	.0	.4	.4	.4	.2	.0	.0	29	.0	1.1
5	.0	.0	.0	.5	.5	.5	.3	.0	.0	54	.1	2.1
4	.0	.0	.0	.7	1.3	.8	.0	.0	.0	78	.1	3.0
3	.0	.0	.1	1.3	2.1	1.7	.1	.0	.0	106	.0	4.2
2	.0	.0	.2	2.0	3.8	1.1	.1	.0	.0	183	.1	7.2
1	.0	.0	.3	4.2	9.1	1.3	.0	.0	.0	278	.1	10.9
0	.0	.0	.9	7.3	8.2	1.4	.0	.0	.0	484	.3	17.7
-1	.0	.0	1.0	7.3	6.3	.7	.0	.0	.0	390	.2	13.3
-2	.0	.0	.8	6.2	3.4	.4	.0	.0	.0	324	.2	12.8
-3	.0	.0	1.0	4.8	3.1	.0	.0	.0	.0	223	.0	8.9
-4	.0	.0	.9	2.9	1.0	.0	.0	.0	.0	139	.0	5.3
-5	.0	.2	.7	2.1	.7	.0	.0	.0	.0	91	.0	3.6
-6	.0	.1	.6	1.3	.3	.0	.0	.0	.0	56	.0	2.2
-7/-8	.0	.0	.6	1.0	.0	.1	.0	.0	.0	47	.0	1.8
-9/-10	.0	.0	.3	.1	.0	.0	.0	.0	.0	13	.0	.5
-11/-13	.0	.0	.1	.1	.0	.0	.0	.0	.0	6	.0	.2
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	3		195	1083	1008	204	18	2	1	2322	31	2491
PCT	.1	.4	7.7	42.9	40.0	8.1	.7	.1	.0	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

MGT	N					PCT	NE					PCT	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
41	.0	.0	.0	.0	.0	.0	.0	1.3	.1	.0	.0	.0	2.1
1-3	.1	.3	.3	.0	.0	2.7	.4	6.7	2.2	.0	.0	.0	9.2
3-4	.1	.3	.9	.0	.0	2.2	.0	2.6	3.3	.0	.0	.0	6.0
5-6	.0	.1	.6	.0	.0	.9	.0	.3	1.4	.0	.0	.0	1.8
7	.0	.1	.2	.1	.0	.4	.0	.0	1.1	.1	.0	.0	1.2
8-9	.0	.0	.1	.0	.0	.1	.0	.0	.4	.2	.0	.0	.6
10-11	.0	.0	.0	.2	.0	.2	.0	.0	.0	.3	.0	.0	.3
12	.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
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	6.4	2.2	.3	.0	7.6	.9	11.1	6.3	.6	.0	.0	21.2

MGT	E					PCT	SE					PCT	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
41	.2	.2	.0	.0	.0	.9	.0	1.0	.2	.0	.0	.0	2.0
1-3	.1	6.3	1.3	.0	.0	7.7	.0	5.1	2.7	.0	.0	.0	8.4
3-4	.0	3.2	1.8	.0	.0	3.0	.0	1.4	3.7	.0	.0	.0	3.1
5-6	.0	.2	1.3	.1	.0	1.6	.0	1.1	1.8	.1	.0	.0	2.7
7	.0	.0	.3	.1	.0	.4	.0	.0	.1	.1	.0	.0	.3
8-9	.0	.0	.2	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2
10-11	.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	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	10.2	3.2	.2	.0	13.9	1.4	8.3	8.4	.3	.0	.0	16.9

PERIOD: (OVER-ALL) 1969-1979

APRIL
TABLE 18 (CONT)

AREA 0009 RIO DE JANEIRO
22.75 41.4W

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

HGT	S					PCT	SW					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
<1	.4	.8	.3	.0	.0	1.3	.3	1.0	.2	.0	.0	1.5
1-2	.6	3.8	1.0	.0	.0	7.3	.0	3.7	1.0	.0	.0	4.7
3-4	.1	1.7	2.6	.1	.0	4.5	.0	1.0	1.7	.2	.0	2.9
5-6	.0	.0	1.1	.2	.0	1.3	.0	.1	1.1	.3	.0	1.4
7	.0	.1	.4	.2	.0	.8	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.2	.0	.1	.3	.0	.0	.0	.1	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	8.2	9.7	.5	.1	15.8	.3	9.7	4.2	.8	.0	10.8

HGT	M					PCT	NW					TOTAL PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
<1	.4	.3	.0	.0	.0	.8	.1	.2	.0	.0	.0	.4
1-2	.2	1.6	.2	.0	.0	1.9	.0	.3	.2	.0	.0	.2
3-4	.0	.7	.4	.0	.0	1.1	.0	.5	.3	.0	.0	.8
5-6	.0	.0	.1	.0	.0	.1	.0	.0	.1	.0	.0	.1
7	.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
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.3	.8	.0	.0	3.9	.1	1.2	.7	.0	.0	2.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	8.3	3.6	1.0	.0	.0	.0	14.9	871
1-2	2.8	31.2	8.8	.0	.0	.0	42.8	
3-4	.2	12.2	14.4	.3	.0	.0	27.1	
5-6	.0	1.7	7.3	.7	.0	.0	9.8	
7	.0	.2	2.3	.7	.0	.0	3.2	
8-9	.0	.0	1.0	.3	.1	.0	1.5	
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	
49-48	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-80	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.3	51.0	34.9	2.8	.1	.0	100.0	

PERIOD: (OVER-ALL) 1969-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-17	18-22	23-25	26-32	33-40	41-48	49-60	61-70	71-80	87+	TOTAL	MEAN HGT
0-7	3.8	15.1	14.1	4.7	2.3	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	687	3
8-9	.1	1.0	8.8	10.1	3.1	1.5	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	449	5
10-11	.0	.0	1.4	3.2	3.1	1.1	.3	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	171	6
12-13	.0	1.1	1.1	.7	.9	.8	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97	6
14-15	.0	.0	.5	.4	.3	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	7
16-19	.0	.0	.0	.0	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
IMDPT	4.2	3.7	3.4	1.8	1.7	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	234	3
TOTAL	133	377	407	340	194	78	33	20	10	2	0	0	0	0	0	0	0	0	0	1393	4
PCT	7.0	22.3	23.4	20.6	11.8	4.8	1.9	1.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1897-1974

AREA 0009 RIO DE JANEIRO
22.85 41.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCES BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRIZ	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG BLWG SNOW	NO SIG WEA
N	1.0	.4	.0	.0	.0	.0	.4	1.3	.7	2.1	1.0	.0	1.6	.0	.0	93.3
NE	1.7	.3	.0	.0	.0	.0	.0	2.1	.5	1.2	2.7	.0	1.3	.0	.0	92.4
E	2.7	2.1	.2	.0	.0	.0	.0	5.0	2.7	1.9	1.2	.0	1.2	.0	.0	88.9
SE	4.3	3.3	.7	.0	.0	.0	.0	8.2	3.3	1.1	.7	.0	.1	.0	.0	86.7
S	3.7	3.8	.9	.0	.0	.0	.0	8.1	3.3	.7	1.0	.0	.0	.0	.0	84.0
SW	3.4	3.6	.7	.0	.0	.0	.0	7.6	4.0	1.4	4.6	.0	.0	.0	.0	81.9
W	.8	2.3	.0	.0	.0	.0	.0	3.2	.6	1.8	4.3	.8	1.6	.0	.0	87.3
NW	3.1	2.3	.0	.0	.0	.0	.0	5.7	3.8	.0	3.8	.0	.3	.0	.0	86.3
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	1.2	2.3	.0	.0	.0	.0	.0	96.3
TOT PCT	2.6	2.1	.3	.0	.0	.0	.0	4.9	2.3	1.3	2.0	.0	.9	.0	.0	88.3
TOT OBS:	2626															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRIZ	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG BLWG SNOW	NO SIG WEA
0000	2.9	2.4	.9	.0	.0	.0	.0	3.2	2.0	2.6	2.4	.0	.4	.0	.0	86.8
0400	2.4	1.9	.4	.0	.0	.0	.0	4.7	3.1	2.1	1.8	.1	.7	.0	.0	87.7
1200	3.7	2.3	.0	.0	.0	.0	.0	6.0	2.0	.3	2.1	.0	1.1	.0	.0	88.4
1800	1.1	1.8	.0	.0	.0	.0	.0	2.9	2.6	.2	2.3	.0	1.3	.0	.0	90.6
TOT PCT	2.6	2.1	.3	.0	.0	.0	.0	3.0	2.4	1.3	2.2	.0	.9	.0	.0	88.3
TOT OBS:	2741															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT PRES	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	1.1	3.0	2.8	.0	.0	.0	.0	10.2	10.4	6.6	8.0	9.7	8.3	13.2	14.0	10.1	11.9
NE	1.8	6.0	7.9	.0	.0	.0	.0	21.1	18.1	20.8	22.1	21.9	20.0	22.5	19.1	19.3	16.3
E	1.8	6.6	8.1	.4	.0	.0	.0	18.0	9.4	19.5	17.0	19.3	16.2	13.2	13.7	16.6	20.2
SE	1.8	6.3	3.1	.9	.0	.0	.0	19.4	9.7	16.2	16.6	19.7	21.2	14.6	13.9	14.8	17.7
S	1.2	6.2	4.0	.7	.1	.0	.0	12.3	10.4	13.0	12.3	11.7	8.4	10.9	10.4	13.3	12.2
SW	1.8	3.1	4.4	1.1	.2	.0	.0	11.9	17.0	11.3	11.2	11.1	3.3	11.3	12.3	14.6	9.2
W	.7	2.7	1.6	.3	.1	.0	.0	3.4	10.2	4.1	3.1	3.1	3.3	3.9	7.3	4.8	3.4
NW	.6	2.1	.7	.1	.0	.0	.0	3.3	8.7	2.2	3.3	4.1	3.1	4.4	4.9	3.0	3.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.3							4.3	.0	4.2	4.9	3.3	2.8	4.0	4.3	3.1	3.4
TOT OBS	1538	3403	3384	499	38	4	11003	4.3	9.7	1915	1916	2073	143	1842	1731	1714	147
TOT PCT	14.0	48.8	32.3	4.3	.3	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT PRES	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18	21
N	3.2	3.2	1.0	.2	.0	7.6	10.2	10.4	7.2	9.0	1.6	10.2	
NE	3.9	13.4	2.7	.1	.0	20.1	21.1	18.1	21.4	22.3	20.1	19.3	
E	3.2	9.0	1.7	.1	.0	14.0	18.0	9.4	18.4	13.3	13.4	19.9	
SE	3.3	7.7	2.1	.1	.0	13.2	19.4	9.7	16.4	16.0	14.3	19.0	
S	4.0	6.0	3.1	.2	.0	12.3	12.3	10.4	13.9	11.3	10.7	13.4	
SW	3.2	3.7	2.3	.4	.1	11.9	11.9	12.0	11.3	10.8	11.9	14.2	
W	2.8	2.4	.7	.2	.0	6.6	3.4	10.2	4.9	3.2	6.6	4.8	
NW	1.7	1.4	.4	.1	.0	3.6	3.3	8.7	2.3	4.0	4.6	3.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.3					4.3	4.3	.0	4.3	3.1	4.1	3.1	
TOT OBS	3388	3503	1332	139	14	11003	4.3	9.7	3431	2218	2373	1841	
TOT PCT	33.1	48.7	13.6	1.3	.1	100.0			100.0	100.0	100.0	100.0	

MAY

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1857-1974

AREA 0009 RIO DE JANEIRO
22.83 41.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	4.5	9.7	30.2	30.9	4.3	.3	.0	9.5	100.0	3431
0600Z	5.1	10.1	49.5	30.9	4.1	.3	.0	9.5	100.0	2218
1200Z	4.1	10.1	46.9	33.3	5.0	.4	.1	9.9	100.0	3373
1800Z	3.1	8.8	48.8	34.4	4.4	.3	.1	10.1	100.0	1861
TOT	474	1079	3405	3584	499	38	4	9.7		11083
PCT	4.3	9.7	48.8	32.3	4.3	.3	*		100.0	

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	13.0	4.2	4.3	1.5		2.7
E	7.8	4.1	4.1	2.0		3.5
SE	4.3	7.7	3.8	2.7		4.1
S	4.8	2.3	3.7	2.1		4.1
SW	2.8	2.8	3.4	2.3		4.7
W	1.3	.3	1.4	.6		3.9
NW	.9	.7	1.0	.5		4.3
VAR	.0	.0	.0	.0		.0
CALM	2.2	.8	.4	.2		2.1
TOT OBS	603	400	462	233	1800	3.6
TOT PCT	32.3	21.1	24.3	12.4	100.0	

TABLE 6

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

WIND DIR	000	150	300	600	1000	2000	3500	F'00	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.0	.2	.3	.3	.1	.1	.0	.0	.0	8.6
NE	.0	.1	.1	.6	.8	.8	.4	.2	.0	.0	.0	20.1
E	.0	.0	.1	1.0	1.8	.7	.8	.2	.1	.1	.1	13.3
SE	.1	.0	.2	1.0	1.8	.8	.9	.1	.1	.0	.0	10.3
S	.0	.0	.4	.8	2.2	.5	.9	.1	.0	.0	.0	8.3
SW	.1	.1	.1	1.0	1.7	1.0	.4	.1	.0	.0	.0	6.6
W	.1	.0	.0	.2	.3	.3	.1	.1	.0	.0	.0	2.8
NW	.0	.0	.1	.3	.2	.3	.1	.1	.0	.0	.0	2.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.2	.1	.1	.1	.0	.0	.0	.0	3.2
TOT OBS	5	2	18	98	180	80	47	14	3	4	1440	1900
TOT PCT	.3	.1	.9	5.2	9.3	4.7	2.3	.7	.2	.2	73.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50VD	>0
>8000	.4	.5	.5	.5	.5	.5	.5	.5
>6000	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2
>4000	2.9	3.0	3.7	3.7	3.7	3.7	3.7	3.7
>3000	6.4	7.0	8.2	8.2	8.2	8.2	8.2	8.2
>2000	13.6	14.6	17.3	17.6	17.7	17.8	17.8	17.8
>1000	17.2	20.9	22.8	22.6	22.7	22.8	22.8	22.8
>500	17.7	21.8	23.0	23.4	23.4	23.7	23.7	23.7
>150	17.8	21.9	23.1	23.5	23.7	23.6	23.8	23.8
>0	17.9	22.0	23.3	23.7	24.0	24.1	24.1	24.1
TOTAL	347	426	450	459	464	466	466	466

TOTAL NUMBER OF OBS: 1935

PCT FREQ NH <5/8: 73.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
17.7	19.9	16.6	12.3	8.9	5.4	6.0	4.1	8.8	.2	2040

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1857-1974

MAY

AREA 0009 RIO DE JANEIRO
22.65 41.2W

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.1	.0	.1	.1	.2	.0	.0	.0	.0	.0	.5
	TOT %	.0	.1	.0	.1	.1	.2	.0	.0	.0	.0	.0	.5
2<5	PCP	.0	.0	.2	.1	.1	.1	.0	.0	.0	.0	.0	.3
	NO PCP	.2	.0	.4	.3	.1	.2	.1	.0	.0	.1	.2	2.2
	TOT %	.2	.0	.6	.4	.2	.3	.1	.1	.0	.1	.2	2.5
5<10	PCP	.1	.2	.3	.3	.5	.5	.1	.1	.0	.0	.0	3.0
	NO PCP	1.7	4.1	2.4	2.7	2.0	2.5	1.1	.6	.0	.4	17.9	
	TOT %	1.8	4.4	2.9	3.0	2.5	3.0	1.2	.7	.0	.4	20.9	
10+	PCP	.0	.1	.2	.2	.3	.2	.1	.0	.0	.0	.0	1.1
	NO PCP	7.9	17.8	13.7	10.8	8.9	7.6	3.3	2.2	.0	2.6	74.8	
	TOT %	8.0	17.9	13.8	11.0	9.2	7.8	3.3	2.2	.0	2.6	75.9	
TOT OBS													2623
TOT PCT		10.0	23.2	17.4	13.4	12.0	11.4	4.4	3.0	.0	3.1	100.0	

TABLE 9

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

VISBY (MM)	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	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1
1/2<1	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2
	11-21	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
	TOT %	.0	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.7
2<5	0-3	.1	.1	.0	.1	.0	.0	.0	.0	.0	.1	.0	.4
	4-10	.1	.1	.2	.2	.2	.1	.1	.0	.0	.0	.0	1.0
	11-21	.0	.2	.1	.2	.2	.1	.0	.0	.0	.0	.0	.9
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.2	.5	.4	.4	.4	.3	.1	.1	.0	.1	.0	2.5
5<10	0-3	.2	.2	.1	.2	.2	.1	.1	.1	.0	.3	.0	1.5
	4-10	.8	1.4	1.2	1.2	.8	.8	.3	.3	.0	.0	.0	7.0
	11-21	.3	1.1	.9	1.1	.8	1.0	.2	.0	.0	.0	.0	3.4
	22+	.0	.1	.1	.2	.2	.3	.0	.0	.0	.0	.0	.9
	TOT %	1.3	2.8	2.4	2.6	1.9	2.2	.7	.4	.0	.3	.0	14.7
10+	0-3	1.0	1.3	1.6	1.2	1.0	.7	.3	.3	.0	3.6	.0	11.7
	4-10	4.7	10.3	7.2	6.0	5.2	3.9	2.3	1.8	.0	.0	.0	41.6
	11-21	3.2	7.8	4.6	3.2	3.0	3.1	1.1	.4	.0	.0	.0	26.4
	22+	.2	.3	.1	.1	.4	.9	.2	.0	.0	.0	.0	.2
	TOT %	9.1	20.2	13.6	10.5	9.6	8.6	4.1	2.7	.0	3.6	.0	81.9
TOT OBS													5229
TOT PCT		10.7	23.7	16.3	13.0	12.0	11.2	5.0	3.2	.0	4.0	100.0	

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1957-1974

MAY

AREA 0009 RIO DE JANEIRO
22.83 41.2M

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
06003	.6	.0	.8	3.9	8.6	4.5	3.1	.8	.2	.4	22.9	77.1	490
06009	.4	.4	1.0	5.9	11.8	3.7	2.9	.0	.2	.9	26.9	79.1	510
12015	.0	.0	.6	3.9	10.0	4.9	1.2	1.0	.2	.2	24.5	75.5	510
18021	.0	.0	1.2	4.0	6.9	3.0	2.4	.4	.2	.0	20.0	80.0	504
TOT	5	2	18	99	188	91	48	14	4	6	475	1339	2014
PCT	.2	.1	.9	4.0	9.3	4.3	2.4	.7	.2	.3	23.0	76.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (MM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
06003	.1	.1	.6	2.7	16.4	80.0	1587
06009	.2	.1	.7	2.4	14.8	81.9	1185
12015	.0	.2	1.0	2.5	15.3	80.8	1569
18021	.1	.2	.6	2.0	13.1	84.0	1005
TOT	5	6	38	132	811	4352	8346
PCT	.1	.1	.7	2.5	15.2	81.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <500	<100 <1	<1000 <5	1500+ >5	NM <5/8 AND 5+	TOTAL OBS
06003	.6	1.9	8.3	17.1	74.6	498
06009	.4	2.2	11.0	18.5	70.6	493
12015	.0	1.0	9.1	16.3	74.5	491
18021	.2	1.4	6.6	13.9	79.3	493
TOT	6	32	170	318	1447	1938
PCT	.3	1.7	8.8	16.4	74.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.4	.0	1.0	1	.1
85/89	.0	.0	.0	.1	.1	.2	.1	.0	9	.3
80/84	.0	.0	.1	.1	1.0	2.2	1.1	.5	49	4.9
75/79	.0	.0	.1	1.6	4.0	15.0	16.4	7.4	854	44.5
70/74	.0	.0	.1	1.0	3.9	10.9	15.6	11.3	861	44.8
65/69	.0	.0	.0	.1	.5	1.1	1.7	1.7	100	5.2
60/64	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
TOTAL	0	0	4	9	221	967	672	402	1921	100.0
PCT	.0	.0	.2	2.9	11.5	29.5	35.0	20.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
85/89	.0	.1	.1	.1	.0	.1	.0	.0	.0	.1
80/84	1.0	1.4	.7	.8	.2	.3	.2	.2	.0	.1
75/79	6.3	11.8	7.1	6.8	3.0	3.3	1.3	1.4	.0	1.4
70/74	3.0	8.4	7.4	7.6	6.8	6.3	2.4	1.3	.0	1.4
65/69	.3	.3	.7	.9	.9	1.3	.3	.1	.0	.0
60/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	10.7	21.9	16.0	16.1	13.0	11.8	4.3	3.0	.0	3.0

TABLE 15

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

HOUR (GMT)	MAX	95%	90%	50%	5%	MIN	MEAN	TOTAL OBS	
06003	84	80	78	73	68	65	39	72.4	3491
06009	38	79	77	73	68	65	39	72.9	2222
12015	94	84	81	78	69	66	41	73.1	3478
18021	92	84	82	76	70	67	63	73.8	1800
TOT	94	83	80	74	68	66	39	74.2	10931

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
06003	.0	1.1	10.6	23.4	39.3	25.4	23	25.4	83	547
06009	.0	2.1	7.9	24.7	37.8	27.4	23	27.4	83	481
12015	.0	3.4	11.5	29.7	33.7	19.3	20	20	80	538
18021	.0	3.3	15.3	41.4	26.6	11.1	77	77	432	432
TOT	0	39	227	592	712	428	81	2018		

MAY

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1957-1974

AREA 0009 RIO DE JANEIRO
22.05 41.2W

TABLE 17

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

AIR-SEA TMP DIF	37 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.2
9/10	.0	.0	.0	.1	.0	.0	.1	.0	.0	7	.0	.3
7/9	.0	.0	.0	.0	.0	.2	.4	.1	.0	18	.0	.7
6	.0	.0	.0	.0	.2	.3	.2	.0	.0	18	.0	.7
5	.0	.0	.0	.0	.4	.5	.4	.0	.0	40	.0	1.7
4	.0	.0	.0	.2	.7	1.3	.4	.0	.0	58	.0	2.3
3	.0	.0	.0	.0	1.2	1.8	.4	.0	.0	79	.1	3.4
2	.0	.0	.1	.4	2.8	3.1	.2	.0	.0	172	.0	7.3
1	.0	.0	.0	.7	6.4	2.9	.3	.0	.0	235	.1	10.2
0	.0	.0	.1	2.1	10.9	3.5	.4	.0	.0	378	.2	16.3
-1	.0	.0	.1	3.2	7.9	3.1	.0	.0	.0	326	.4	13.8
-2	.0	.0	.0	3.8	8.1	2.4	.0	.0	.0	327	.2	14.1
-3	.0	.0	.3	2.8	4.8	.8	.0	.0	.0	190	.1	8.2
-4	.0	.0	.3	2.7	3.1	.7	.0	.0	.0	160	.2	6.8
-5	.0	.0	.6	2.4	1.9	1.2	.0	.0	.0	117	.0	5.1
-6	.0	.0	.3	1.1	.9	.0	.0	.0	.0	54	.0	2.4
-7/-8	.0	.0	.7	1.4	.8	.1	.0	.0	.0	76	.0	3.1
-9/-10	.0	.0	.3	.4	.1	.0	.0	.0	.0	20	.0	.9
-11/-13	.0	.0	.1	.1	.0	.0	.0	.0	.0	8	.0	.4
-14/-16	.0	.0	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	1	3	76	486	1161	485	84	9	2	2289	34	2249
PCT	.0	.1	3.3	21.3	50.9	21.2	2.8	.2	.1	100.0	1.9	98.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.7	.4	.0	.0	.0	.0	1.0	1.0	1.0	.0	.0	.0	.0	2.0
1-2	.4	2.8	.8	.0	.0	.0	3.3	.8	6.3	1.8	.0	.0	.0	8.4
3-4	.0	.8	1.1	.0	.0	.0	1.9	.4	3.4	4.3	.0	.0	.0	8.3
5-6	.0	.2	.7	.1	.0	.0	1.0	.0	.3	3.4	.0	.0	.0	3.9
7	.0	.0	.0	.0	.0	.0	.7	.0	.2	1.1	.0	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0
TOT PCT	1.0	4.3	2.7	.1	.0	.0	8.1	3.0	11.8	10.7	.0	.0	.0	24.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.9	1.8	.0	.0	.0	.0	2.5	.2	.9	.0	.0	.0	.0	1.1
1-2	.3	4.7	1.4	.0	.0	.0	6.4	.4	3.0	.3	.0	.0	.0	3.9
3-4	.4	3.3	2.6	.0	.0	.0	6.3	.5	4.0	2.3	.0	.0	.0	7.1
5-6	.0	.1	2.1	.1	.0	.0	3.3	.0	.1	1.4	.0	.0	.0	1.5
7	.0	.0	.8	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.8	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.8	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.8	.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
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.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	1.7	9.8	6.8	.3	.0	.0	18.6	1.1	8.0	3.2	.0	.0	.0	16.4

PERIOD: (OVER-ALL) 1969-1974

MAY

TABLE 18 (CONT)

AREA 0009 RIO DE JANEIRO
22.05 41.2M

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.9	.0	.0	.0	.0	1.2	.1	.7	.0	.0	.0	.0	.8
1-2	.6	2.8	.7	.0	.0	.0	4.1	.2	2.4	.2	.0	.0	.0	2.8
3-4	.1	2.8	2.2	.4	.0	.0	5.5	.0	1.7	.9	.1	.0	.0	2.7
5-6	.0	.5	.7	.0	.0	.0	1.2	.0	.3	.8	.3	.0	.0	1.8
7	.0	.1	.6	.2	.0	.0	.9	.0	.0	.9	.3	.0	.0	1.2
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	7.2	4.2	1.2	.0	.0	13.6	.3	3.3	3.0	1.1	.0	.0	9.8

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.6	.0	.0	.0	.0	.9	.2	.4	.0	.0	.0	.0	.6	
1-2	.1	1.1	.1	.0	.0	.0	1.3	.0	1.1	.1	.0	.0	.0	1.2	
3-4	.0	1.1	.3	.0	.0	.0	1.6	.0	1.0	.4	.0	.0	.0	1.4	
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.3	.3	.0	.0	.0	.7	
7	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	2.8	.8	.1	.0	.0	4.1	.2	2.7	1.0	.0	.0	.0	3.9	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.0	6.8	.0	.0	.0	.0	.0	14.8
1-2	9.1	24.0	4.8	.0	.0	.0	.0	31.9
3-4	1.4	17.9	14.3	.0	.0	.0	.0	34.0
5-6	.0	2.3	9.3	.0	.0	.0	.0	12.0
7	.0	.4	6.4	.0	.0	.0	.0	7.4
8-9	.0	.3	.1	.1	.0	.0	.0	.9
10-11	.0	.1	.4	.3	.0	.0	.0	.8
12	.0	.0	.0	.3	.0	.0	.0	.3
13-16	.0	.0	.0	.3	.0	.0	.0	.1
17-19	.0	.0	.0	.1	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	12.8	81.6	29.1	2.8	.0	.0	100.0	800

PERIOD: (OVER-ALL) 1969-1974

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	11.5	19.5	4.8	2.9	.2	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	623	3
6-7	.2	2.2	11.1	10.3	4.6	1.2	.5	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	485	5
8-9	.1	.6	1.7	2.7	2.8	1.6	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	182	6
10-11	.0	.6	.7	.7	.7	.8	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	6
12-13	.0	.0	.4	.2	.3	.1	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	7
13	.0	.0	.0	.1	.4	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	12	10
MEAN	3.7	1.7	4.0	1.6	1.0	.4	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	208	3
TOTAL	114	268	338	344	267	70	39	12	12	2	1	1	0	0	0	0	0	0	0	0	1408	4
PCT	7.1	16.7	33.5	21.4	12.9	4.4	2.4	.7	.7	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1952-1973
(OVER-ALL) 1854-1973

JUNE

AREA 0009 RIO DE JANEIRO
22.05 41.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.3	.0	.3	.0	.0	.0	.0	1.3	.6	1.9	1.7	.0	1.3	.0	92.9
NE	.7	1.1	.6	.0	.0	.0	.0	2.3	1.4	.3	2.3	.0	.8	.0	93.0
E	1.7	2.3	.9	.0	.0	.0	.0	4.8	2.1	.6	1.1	.0	.7	.0	90.7
SE	2.2	3.1	2.2	.0	.0	.0	.0	6.8	3.9	.9	1.3	.0	1.3	.0	85.8
S	2.9	1.7	2.8	.0	.0	.0	.0	7.3	3.4	1.2	.8	.0	.7	.0	86.6
SW	3.2	1.4	2.1	.0	.0	.0	.0	6.7	2.8	1.0	.7	.0	.7	.0	88.2
W	3.3	1.9	.7	.0	.0	.0	.0	8.1	3.3	1.9	1.0	.0	.0	.0	85.7
NW	3.6	2.3	2.3	.0	.0	.0	.0	9.0	3.7	1.1	3.7	.0	2.3	.0	80.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	2.4	1.2	.0	.0	.0	.0	3.6	1.2	1.2	3.6	.0	1.2	.0	89.3
TOT PCT	1.8	1.7	1.3	.0	.0	.0	.0	4.7	2.2	.9	1.6	.0	.9	.0	89.7
TOT OBS	1797														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0600	1.7	1.8	1.8	.0	.0	.0	.0	3.2	2.2	2.0	1.4	.0	.1	.0	89.1
0609	2.3	1.7	.9	.0	.0	.0	.0	4.8	3.0	1.4	1.4	.0	.3	.0	89.0
12019	2.0	2.0	.3	.0	.0	.0	.0	4.3	1.8	.0	2.3	.0	2.1	.0	89.3
18221	2.0	1.2	1.7	.0	.0	.0	.0	4.7	2.0	.3	1.1	.0	.9	.0	91.2
TOT PCT	2.0	1.7	1.2	.0	.0	.0	.0	4.8	2.2	.9	1.6	.0	.9	.0	89.6
TOT OBS	2896														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						40+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-20	21-29	30-47	48+					00	03	06	09	12	15	18	21
N	1.3	3.6	4.8	.3	.0	.0		12.4	10.3		8.2	9.2	13.1	13.2	13.7	17.2	11.0	10.8
NE	1.7	13.1	8.4	1.2	.0	.0		24.7	10.6		23.4	23.3	23.3	22.7	24.3	22.2	23.2	23.2
E	1.8	8.3	4.4	.6	.0	.0		19.0	9.7		17.8	13.6	14.7	19.9	12.8	12.6	14.8	24.7
SE	1.3	6.9	3.8	.7	.0	.0		12.6	9.9		14.3	13.0	11.0	13.4	11.3	12.3	13.6	13.2
S	1.1	3.1	3.2	.3	.0	.0		10.0	10.0		11.9	11.1	9.3	9.4	8.3	6.1	10.6	8.3
SW	1.0	3.8	4.0	.8	.1	.0		11.7	11.1		12.7	11.1	10.1	10.3	11.3	11.2	14.3	8.8
W	.8	2.8	1.3	.3	.1	.0		3.2	9.3		3.3	4.8	3.9	3.8	7.0	6.7	3.4	3.3
NW	.6	2.4	1.0	.1	.0	.0		4.1	8.9		1.8	3.4	4.3	3.1	3.9	6.4	3.2	3.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8							4.8	.0		6.4	8.3	6.0	2.2	3.3	3.3	3.4	2.0
TOT OBS	1369	3489	3392	807	24	3	11172		9.7		2013	1928	2104	138	1834	1449	1733	153
TOT PCT	14.0	49.1	33.1	4.3	.2	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40					00	06	12	18	
N	4.0	6.4	1.9	.1	.0		12.4	10.3		8.6	13.1	16.4	11.0
NE	8.3	13.3	4.0	.2	.0		24.3	10.6		24.2	23.3	23.3	23.1
E	4.0	8.1	1.7	.1	.0		18.0	9.7		16.9	13.0	12.7	13.6
SE	4.3	6.1	1.8	.2	.0		12.6	9.9		13.7	11.2	11.9	13.7
S	3.0	4.7	1.4	.1	.0		10.0	10.0		11.6	9.3	8.2	10.6
SW	3.6	3.6	2.1	.3	.0		11.7	11.1		12.0	10.3	11.2	13.9
W	2.3	2.1	.7	.2	.0		3.2	9.3		4.1	3.9	6.8	3.6
NW	1.8	1.9	.4	.0	.0		4.1	8.9		2.3	4.2	6.1	3.3
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0
CALM	4.8						4.8	.0		6.4	8.3	3.3	3.3
TOT OBS	4024	3402	1398	143	3	11172		9.7		1341	2242	2483	1908
TOT PCT	36.0	48.4	14.3	1.3	.0		100.0			100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1854-1973

AREA 0009 RIO DE JANEIRO
22.65 41.3M

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	6.4	9.5	48.8	30.4	4.7	.2	.0	9.4	100.0	3941
0600Z	5.8	9.4	48.1	32.1	4.8	.3	.0	9.6	100.0	2242
1200Z	3.3	7.1	49.9	33.0	4.4	.2	.1	9.9	100.0	3483
1800Z	3.3	8.9	49.3	33.9	4.8	.2	.1	10.0	100.0	1908
TOT	533	1036	3489	3382	307	24	3	9.7		11172
PCT	4.8	9.3	49.1	32.1	4.9	.2	0	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	14.2	3.4	3.8	1.0		3.7
E	9.2	4.7	3.8	2.1		3.2
SE	3.9	2.7	3.6	1.7		4.1
S	3.1	2.1	2.5	1.6		4.2
SW	3.1	2.1	4.0	2.0		4.6
W	1.1	.8	1.2	.8		3.0
NH	1.2	.7	.9	.5		3.0
VAR	.0	.0	.0	.0		3.0
CALM	2.2	.0	.0	.0		2.3
TOT OBS	921	489	499	222	2102	3.4
TOT PCT	43.8	21.4	23.7	11.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT./M)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

WIND DIR	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH < 5/8 ANY HG?	TOTAL OBS
NE	.0	.1	.3	.7	1.0	.8	.6	.0	.0	.0	.2	22.9
E	.0	.1	.3	.7	1.7	.8	.6	.1	.0	.0	.0	15.4
SE	.1	.0	.2	.7	1.4	.7	.5	.1	.0	.0	.0	8.1
S	.0	.0	.3	.2	1.2	.6	.6	.1	.0	.0	.0	6.3
SW	.1	.1	.2	.7	1.3	1.0	.4	.2	.0	.0	.0	5.8
W	.0	.0	.0	.3	.6	.4	.0	.2	.0	.0	.0	2.5
NH	.0	.0	.0	.2	.2	.2	.0	.0	.0	.0	.0	2.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.0
TOT OBS	3	6	27	77	176	104	69	18	6	7	1613	2102
TOT PCT	.2	.3	1.3	3.7	8.4	4.9	3.1	.9	.2	.3	76.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>>0	>0
> OR >8000	.4	.6	.8	.8	.8	.8	.8	.8
> OR >6000	.7	1.0	1.0	1.3	1.3	1.3	1.3	1.3
> OR >4000	2.3	3.4	3.8	4.4	4.4	4.4	4.4	4.4
> OR >2000	3.9	7.8	8.4	9.1	9.1	9.1	9.1	9.1
> OR >1000	12.8	13.8	14.7	17.4	17.4	17.4	17.4	17.4
> OR >800	15.0	17.2	20.2	20.9	21.0	21.0	21.1	21.1
> OR >600	15.7	20.4	21.4	22.2	22.3	22.3	22.4	22.4
> OR >400	18.8	20.6	21.6	22.6	22.8	22.8	22.8	22.8
> OR >200	19.0	20.8	21.8	22.8	22.7	22.7	22.8	22.9
TOTAL	336	437	459	475	477	477	480	481

TOTAL NUMBER OF OBS: 2102

PCT FREQ NH < 5/8: 77.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
21.0	20.1	19.8	16.1	7.4	5.7	2.7	4.9	7.7	2344

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1854-1973

JUNE

AREA 0009 RIO DE JANEIRO
22.65 41.3W

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
1<2	PCP	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.1	.0	.2	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.1	.0	.3	.2	.0	.0	.0	.0	.8	
2<5	PCP	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.4	
	NO PCP	.2	.8	.4	.3	.3	.4	.3	.3	.0	.0	3.0	
	TOT %	.2	.9	.4	.4	.3	.5	.4	.3	.0	.0	3.4	
5<10	PCP	.1	.4	.7	.4	.3	.3	.2	.1	.0	.1	2.9	
	NO PCP	2.1	3.8	3.7	2.3	1.6	2.1	.7	.8	.0	.7	20.2	
	TOT %	2.2	4.1	4.4	2.7	1.9	2.4	.9	.9	.0	.7	23.1	
10+	PCP	.1	.2	.3	.3	.2	.1	.1	.2	.0	.0	1.4	
	NO PCP	8.0	20.1	14.6	8.2	6.3	7.7	2.3	1.8	.0	2.2	71.4	
	TOT %	8.1	20.3	14.9	8.5	6.5	7.8	2.4	2.0	.0	2.2	72.8	
TOT OBS												2756	
TOT PCT												10.6 27.3 19.7 12.1 9.2 11.0 9.8 9.2 .0 3.0 100.0	

TABLE 9

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

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.4	
	11-21	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.1	.2	.2	.0	.0	.0	.1	.7	
2<5	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	.3	
	4-10	.1	.3	.2	.2	.1	.2	.1	.1	.0	.0	1.3	
	11-21	.0	.2	.1	.1	.1	.2	.1	.0	.0	.0	.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.6	.3	.4	.2	.3	.3	.2	.0	.1	2.6	
5<10	0-3	.3	.3	.2	.2	.1	.1	.1	.2	.0	.7	2.2	
	4-10	.7	1.5	1.4	1.2	.8	.9	.4	.3	.0	.0	7.2	
	11-21	.7	1.7	.9	.8	.6	.9	.2	.1	.0	.0	9.8	
	22+	.0	.3	.0	.0	.2	.2	.1	.0	.0	.0	1.2	
	TOT %	1.6	3.8	2.8	2.9	1.6	2.1	1.2	.6	.0	.7	16.3	
10+	0-3	1.2	1.5	1.2	1.1	.9	.7	.7	.5	.0	3.3	11.3	
	4-10	3.0	11.1	8.0	5.1	3.4	4.6	1.9	1.8	.0	.0	40.8	
	11-21	4.0	8.1	3.6	2.1	2.3	3.2	1.0	.7	.0	.0	25.0	
	22+	.2	.3	.2	.3	.2	.2	.2	.0	.0	.0	2.6	
	TOT %	10.4	21.2	13.1	8.6	7.0	9.3	3.8	2.7	.0	3.3	79.7	
TOT OBS												3468	
TOT PCT												12.3 29.7 16.4 11.9 9.1 12.2 8.0 8.5 .0 4.4 100.0	

JUNE

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1634-1973

AREA 0009 RIO DE JANEIRO
22.65 41.3W

TABLE 10

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

HOUR (GMT)	000	100	300	600	1000	2000	3000	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	.2	.2	.9	4.7	6.1	4.1	2.3	1.1	.4	.2	20.0	80.0	559
0600	.4	.5	1.8	2.9	6.7	3.5	2.4	.7	.0	.9	22.0	78.0	349
1200	.0	.4	1.1	3.0	9.7	6.9	3.5	.6	.0	.0	25.1	74.9	538
1800	.4	.0	1.2	3.5	8.1	4.8	3.9	.9	.4	.4	23.5	76.5	567
TOT	5	6	28	78	100	106	68	18	4	8	301	1712	2213
PCT	.2	.2	1.3	3.8	8.1	4.8	3.1	.8	.2	.4	22.6	77.4	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
0000	.4	.1	.8	2.4	17.5	78.8	1699
0600	.6	.0	1.1	2.7	16.5	79.2	1215
1200	.4	.1	.8	3.3	16.9	78.6	1600
1800	.2	.3	.9	3.1	19.3	80.2	1038
TOT	23	6	48	139	929	4406	5971
PCT	.4	.1	.9	2.9	16.7	79.1	100.0

TABLE 12

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

HOUR (GMT)	<180 <5000	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000	.2	1.9	10.1	12.8	77.1	23
0600	.6	2.7	10.5	14.9	71.6	529
1200	.0	2.1	10.8	19.1	70.1	519
1800	.4	2.2	10.4	16.4	73.2	537
TOT	6	47	220	332	1880	2102
PCT	.3	2.2	10.3	15.8	73.7	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
98/94	0	0	0	0	0	0	0	0	1	0
85/80	0	0	0	0	0	0	0	0	1	0
80/74	0	0	.1	.1	.2	.3	.1	.1	27	1.3
75/70	0	0	0	.9	2.1	9.1	2.2	2.2	472	23.1
70/74	0	0	.1	1.1	7.0	14.8	25.0	15.7	1298	63.4
65/60	0	0	0	.1	1.6	3.6	4.0	3.3	238	11.6
60/54	0	0	0	.1	1.1	.1	.1	0	10	.5
TOTAL	1	0	7	39	228	550	757	494	2044	100.0
PCT	0	0	.3	1.9	11.1	26.9	36.5	21.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
98/94	0	0	0	0	0	0	0	0	0	0
85/80	0	0	0	0	0	0	0	0	0	0
80/74	0	0	.1	.1	.1	.2	0	.2	0	0
75/70	4.3	7.0	4.5	1.8	1.0	2.1	.6	1.0	0	.7
70/74	3.5	10.2	13.3	8.4	8.7	7.3	2.2	1.6	0	2.8
65/60	.7	1.8	2.1	1.9	1.2	1.8	.9	.4	0	.2
60/54	0	0	.1	.0	.1	.1	.2	.0	0	.0
TOTAL	10.8	25.1	20.2	12.2	9.9	11.6	3.9	3.1	0	3.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
0000	81	78	74	72	67	63	58	71.8	3538
0600	92	77	73	72	66	63	54	71.2	2246
1200	89	82	79	73	67	64	59	72.4	3396
1800	91	83	80	74	68	65	57	74.1	1858
TOT	92	81	78	73	67	64	54	72.6	11035

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	1.3	9.4	24.5	39.2	25.5	82	598
0600	.2	.8	7.3	19.4	41.4	30.3	85	495
1200	.0	2.8	11.8	28.8	39.9	18.6	80	541
1800	.0	4.3	14.2	34.7	32.6	12.3	78	470
TOT	1	47	752	963	808	450	81	2101

JUNE

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1854-1973

AREA 0009 RIO DE JANEIRO
22.8S 41.3W

TABLE 17

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

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	M FOG	MO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.1
11/13	.0	.0	.0	.1	.0	.0	.1	.1	3	.0	.2
9/10	.0	.0	.0	.1	.0	.1	.2	.0	11	.0	.5
7/8	.0	.0	.0	.0	.2	.3	.3	.0	23	.0	1.0
6	.0	.0	.1	.0	.2	.4	.5	.0	18	.0	.8
4	.0	.0	.0	.1	.7	.4	.2	.0	33	.0	1.4
3	.0	.0	.0	.4	1.3	.8	.2	.0	61	.0	2.7
2	.0	.0	.1	1.3	2.4	.3	.2	.0	79	.1	3.4
1	.0	.0	.1	1.4	3.0	1.0	.0	.0	172	.1	7.4
0	.0	.3	3.3	7.4	1.1	.0	.0	.0	276	.1	11.9
-1	.0	.8	6.4	8.2	1.2	.0	.0	.0	374	.3	16.1
-2	.0	.0	.4	6.7	6.7	.5	.0	.0	328	.3	14.0
-3	.0	.0	.9	7.3	5.2	.3	.0	.0	319	.0	13.9
-4	.0	.0	.7	4.3	3.1	.1	.0	.0	194	.3	8.2
-5	.0	.1	1.2	3.7	1.9	.0	.0	.0	138	.0	6.9
-6	.0	.0	1.2	2.2	1.3	.0	.0	.0	109	.0	4.8
-7	.0	.0	.7	.9	.5	.0	.0	.0	48	.0	2.1
-7/+8	.0	.2	.7	1.0	.3	.0	.0	.0	49	.0	2.1
-9/+10	.0	.1	.2	.3	.0	.0	.0	.0	13	.0	.7
-11/+13	.0	.3	.2	.1	.0	.0	.0	.0	13	.0	.7
-17/+19	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	1	18	104	896	1018	183	26	3	2291	27	2264
PCT	.0	.8	7.2	39.1	44.4	7.1	1.1	.2	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1949-1973

TABLE 18

PCT FRQ OF WIND SPEED (KNOTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.0	1.3	.0	.0	.0	.0	1.9	.7	1.2	.0	.0	.0	.0	1.9
1-2	.1	2.4	1.3	.0	.0	.0	3.8	.0	6.7	1.9	.0	.0	.0	9.4
3-4	.0	.8	2.0	.0	.0	.0	2.8	.0	2.7	6.4	.0	.0	.0	9.0
5-6	.3	.1	.7	.0	.0	.0	.8	.0	.0	3.8	.2	.0	.0	4.4
7	.0	.0	.3	.1	.0	.0	.3	.0	.1	1.8	.3	.0	.0	2.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.1	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.6	4.3	.1	.0	.0	9.8	1.6	11.2	13.6	.9	.0	.0	27.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.2	1.3	.0	.0	.0	.0	1.6	.6	.8	.0	.0	.0	.0	1.6
1-2	.7	3.4	.9	.0	.0	.0	7.1	.5	3.9	.7	.0	.0	.0	9.1
3-4	.0	2.7	3.6	.0	.0	.0	6.3	.0	1.2	1.4	.0	.0	.0	2.3
5-6	.0	.7	1.1	.2	.0	.0	1.9	.0	.5	.3	.0	.0	.0	.7
7	.0	.3	.7	.1	.0	.0	1.1	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.2	.1	.0	.0	.3	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.4	.3	.0	.0	.9	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	10.3	6.9	.9	.0	.0	19.3	1.0	6.4	3.1	.1	.0	.0	10.6

PERIOD: (OVER-ALL) 1963-1973

JUNE

AREA 0009 RIO DE JANEIRO
22.6E 41.3W

TABLE 18 (CONT)

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

HGT	S						PCT	SW						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.3	.0	.0	.0	.0	.3	.3	.3	.0	.0	.0	.0	.0	.8
1-2	.3	2.9	1.3	.0	.0	.0	4.3	.2	.3	2.0	.0	.0	.0	.0	3.7
3-4	.2	1.4	1.1	.0	.0	.0	2.7	.0	1.6	1.7	.1	.0	.0	.0	3.4
5-6	.0	.1	.7	.0	.0	.0	.9	.0	.3	.4	.0	.0	.0	.0	.7
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1	.3	.0	.0	.0	.7
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.1	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.7	3.7	.1	.0	.0	9.3	.3	3.9	4.4	.9	.2	.0	.0	11.9

HGT	W						PCT	NW						TOTAL PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.6	.0	.0	.0	.0	.8	.1	.7	.0	.0	.0	.0	.0	.8
1-2	.2	1.2	.3	.0	.0	.0	1.7	.1	2.1	.3	.0	.0	.0	.0	2.7
3-4	.0	.1	.4	.0	.0	.0	.5	.0	.6	.0	.0	.0	.0	.0	.9
5-6	.0	.1	.2	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.1	1.0	.3	.3	.0	4.1	.2	3.4	.9	.0	.0	.0	.0	6.3 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	6.3	6.7	.2	.0	.0	.0	13.2	
1-2	3.7	27.9	8.9	.0	.0	.0	40.6	
3-4	.2	11.0	16.6	.1	.0	.0	27.9	
5-6	.0	3.4	7.0	.3	.0	.0	9.7	
7	.0	.3	3.4	1.3	.0	.0	5.2	
8-9	.0	.1	.3	.3	.1	.0	1.3	
10-11	.0	.0	.3	.7	.2	.0	1.4	
12	.0	.0	.0	.0	.1	.0	.1	
13-16	.0	.1	.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	.1	.0	.0	.1	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.3	48.5	37.4	3.3	.6	.0	100.0	883

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	2.3	14.2	13.2	4.9	1.7	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	719	3
6-7	.3	3.3	8.7	8.0	3.8	1.2	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	434	4
8-9	.1	.7	2.2	4.0	3.7	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	209	5
10-11	.0	.9	.7	.3	1.3	1.0	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	6
12-13	.0	.0	.2	.3	.1	.7	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	7
>13	.0	.0	.0	.0	.3	.1	.1	.3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	13	11
INDEX	4.8	2.3	2.7	1.8	1.3	.2	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	241	3
TOTAL	137	407	318	342	212	73	34	16	7	0	0	0	0	1	0	0	0	0	0	0	1747	4
PCT	7.8	23.3	19.7	19.6	12.1	4.2	1.9	.9	.4	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1894-1973

JULY

AREA 0009 RIO DE JANEIRO
22.75 41.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRZL	BRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FGS W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.2	.5	.5	.0	.0	.0	.0	1.2	1.3	1.2	2.3	.2	1.4	.0	92.3
NE	.7	.6	.5	.0	.0	.0	.0	1.7	.8	.4	2.8	.8	1.0	.0	92.0
E	2.2	1.8	.8	.0	.0	.0	.0	4.5	1.6	.3	.9	.2	1.1	.0	91.4
SE	1.8	2.2	.4	.0	.0	.0	.0	4.9	5.1	.0	.3	.1	.8	.0	89.5
S	3.3	1.3	1.2	.0	.0	.0	.0	6.3	4.2	.9	.6	.2	.3	.0	87.8
SW	4.7	2.3	.0	.0	.0	.0	.0	7.2	3.5	.0	1.9	.0	.0	.0	87.4
W	2.2	.6	1.2	.0	.0	.0	.0	4.0	3.0	.0	2.0	.0	1.6	.0	89.4
NW	2.3	.0	2.0	.0	.0	.0	.0	4.2	1.1	1.1	4.2	.0	2.8	.0	87.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2	.0	1.1	.0	.0	.0	.0	4.3	.0	.0	3.2	.0	7.4	.0	85.1
TOT PCT	1.9	1.2	.7	.0	.0	.0	.0	3.8	2.2	.4	1.8	.1	1.3	.0	90.3
TOT OBS:	3038														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	BRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/ PCPN	FGS W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	1.3	1.3	.6	.0	.0	.0	.0	3.6	1.4	1.0	1.4	.0	.7	.0	92.1
0400	2.1	1.4	1.0	.0	.0	.0	.0	4.5	3.4	.3	2.1	.0	.8	.1	88.5
1200	2.4	1.0	.2	.0	.0	.0	.0	3.7	2.2	.3	2.3	.1	2.4	.0	89.2
1800	1.9	.8	.8	.0	.0	.0	.0	3.6	1.6	.0	1.4	.3	1.1	.0	92.1
TOT PCT	2.0	1.2	.7	.0	.0	.0	.0	3.8	2.7	.4	1.8	.1	1.3	.0	90.4
TOT OBS:	3203														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					40+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47					00	03	06	09	12	15	18	21
N	1.1	3.1	4.5	.7	.0	.0	11.3	11.0	8.3	10.0	11.3	11.0	13.6	14.7	10.2	9.0
NE	1.3	11.7	11.3	1.6	.0	.0	28.4	11.3	26.9	27.1	27.1	23.3	26.4	24.1	27.0	26.4
E	1.3	9.2	8.6	.5	.0	.0	18.8	9.8	20.3	17.7	16.3	16.8	14.4	14.8	17.0	21.1
SE	.9	6.9	3.9	.7	.1	.0	12.3	10.5	12.7	12.9	12.6	13.4	12.0	12.9	12.8	11.4
S	1.0	3.1	3.4	.8	.2	.0	10.7	11.2	12.3	10.0	10.1	9.9	9.8	10.0	12.1	11.8
SW	.9	4.6	3.3	.7	.2	.0	9.8	11.3	10.0	9.8	9.4	7.3	10.0	9.3	10.8	9.2
W	.7	2.3	1.2	.3	.1	.0	4.6	10.1	3.2	3.8	4.9	6.1	3.4	6.2	3.6	4.4
NW	.3	2.1	.9	.2	.0	.0	3.7	9.3	1.9	3.1	3.7	4.3	4.9	3.3	3.2	4.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1						4.1	.0	4.4	3.6	4.6	6.4	3.6	3.4	3.2	2.3
TOT OBS	1399	3402	3337	620	69	3	11492	10.4	1933	1932	2121	213	1833	1798	1737	243
TOT PCT	12.2	47.2	34.6	3.4	.6	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40					00	06	12	18	21	
N	3.2	3.7	2.2	.2	.0	11.3	11.0	9.0	11.4	14.2	10.1			
NE	3.6	14.7	3.8	.3	.0	28.4	11.3	27.0	24.8	23.3	26.9			
E	3.3	9.0	2.3	.1	.0	18.8	9.8	19.1	16.3	16.6	17.5			
SE	3.9	6.4	2.0	.2	.1	12.3	10.5	12.7	12.7	12.1	12.6			
S	3.3	3.0	2.0	.3	.1	10.7	11.2	11.3	10.1	9.9	12.1			
SW	2.9	4.8	1.8	.3	.1	9.8	11.3	9.9	9.3	9.6	10.6			
W	1.8	2.1	.3	.1	.0	4.6	10.1	3.3	3.0	3.8	3.7			
NW	1.7	1.5	.3	.1	.0	3.7	9.3	2.3	3.8	3.1	3.4			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	4.1					4.1	.0	4.9	4.8	3.3	3.1			
TOT OBS	3043	3622	1963	167	33	11492	10.4	1937	2334	2651	1780			
TOT PCT	22.0	49.1	17.1	1.3	.3	100.0		100.0	100.0	100.0	100.0			

JULY

PERIOD: (PRIMARY) 1912-1973
(COVER-ALL) 1954-1973

AREA 0009 RIO DE JANEIRO
22.75 41.34

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	4.9	7.6	47.9	33.7	5.2	.7	*	10.2	100.0	3487
0600Z	4.8	8.4	47.9	33.2	5.1	.6	.1	10.3	100.0	2324
1200Z	3.3	8.3	44.3	35.3	3.9	.3	.1	10.3	100.0	3691
1800Z	3.1	7.7	46.7	36.4	5.3	.8	.0	10.6	100.0	1980
TOT	4.3	8.0	34.0	39.7	6.0	.9	3	10.4		11492
PCT	4.1	8.1	47.2	34.6	5.4	.6			100.0	

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CLOUD OBS	MEAN CLOUD COVER
NE	19.0	3.4	3.9	1.6	2.7	2.7
E	7.3	3.9	3.3	2.3	3.7	3.7
SE	3.3	2.6	3.7	2.3	4.4	4.4
S	2.6	1.9	2.8	2.7	4.9	4.9
SW	2.6	2.0	2.4	2.7	4.7	4.7
W	1.0	.9	1.0	1.2	4.8	4.8
NW	1.2	.7	.5	.6	3.8	3.8
VAR	.0	.0	.0	.0	.0	.0
CALM	1.8	.3	.7	.9	3.3	3.3
TOT OBS	990	436	939	346	3301	3.7
TOT PCT	41.7	18.9	24.3	13.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, MM & M)
AND OCCURRENCE OF NH < 9/8 BY WIND DIRECTION

WIND DIR	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH < 9/8 ANY HGT	TOTAL OBS
NE	.0	.1	.7	1.2	.8	.9	.2	*	*	24.9		
E	.1	.1	.8	1.8	.9	.5	.2	.7	.1	14.3		
SE	.0	.1	1.1	2.1	1.1	.5	.2	*	.0	7.0		
S	.0	.0	.8	2.0	1.1	.1	.2	.1	*	5.7		
SW	.0	.1	.8	1.6	.9	.6	.1	.1	.0	5.4		
W	.0	.2	.9	.6	.3	.2	.0	.0	.0	2.1		
NW	.0	.2	.1	.3	.2	.1	.0	.0	.0	1.9		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.0	.0	.0	.0	.0	.1	.1	.0	.0	2.7		
TOT OBS	8	4	18	118	241	129	79	23	10	1662	2391	
TOT PCT	.3	.2	.8	5.1	10.5	5.6	3.4	1.0	.4	72.2	100.0	

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	> 10	> 8	> 6	> 4	> 1/2	> 1/4	> 50YD	> 0
> 5000	.5	.7	.8	.8	.8	.8	.8	.8
> 3000	1.1	1.5	1.9	2.0	2.0	2.0	2.0	2.0
> 1500	3.0	4.0	5.6	5.9	6.0	6.0	6.0	6.0
> 1000	6.3	8.6	11.0	11.4	11.6	11.7	11.7	11.7
> 600	13.6	18.3	21.1	21.6	21.8	21.9	21.9	21.9
> 400	17.1	22.9	26.0	26.3	26.7	26.9	26.9	26.9
> 300	17.8	23.4	26.6	27.2	27.4	27.5	27.5	27.5
> 180	17.6	23.6	26.7	27.3	27.6	27.7	27.7	27.7
> 0	17.7	23.8	26.9	27.6	27.8	28.0	28.0	28.0
TOTAL	416	938	632	647	633	637	638	638

TOTAL NUMBER OF OBS: 2346

PCT FREQ NH < 9/8: 72.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
21.1	18.6	15.3	9.9	7.1	4.8	3.4	6.5	11.1	.2	2394

JULY

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1854-1973

AREA 0009 RIO DE JANEIRO
22.75 41.3W

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	*	.0	.0	.1	.0	.0	.0	*	.1	
	TOT %	*	.0	*	*	*	.1	.0	.0	.0	*	.3	
1/2<1	PCP	.0	.0	*	.0	.0	*	.1	.0	.0	.0	.1	
	NO PCP	.0	.1	.1	*	.0	.0	.0	.1	.0	.0	.2	
	TOT %	.0	.1	.1	*	.0	*	.1	.1	.0	.0	.4	
1<2	PCP	.0	.2	*	*	*	*	.0	*	.0	.0	.3	
	NO PCP	.1	.0	.1	.1	.1	.0	.1	*	.0	.0	.4	
	TOT %	.1	.2	.1	.1	.1	.0	.1	.1	.0	.0	.7	
2<5	PCP	.1	.1	*	.1	.1	.1	*	*	.0	.0	.5	
	NO PCP	.6	1.7	1.0	.6	.6	.4	.1	.2	.0	.1	5.3	
	TOT %	.8	1.8	1.0	.7	.6	.5	.2	.3	.0	.1	5.8	
5<10	PCP	.1	.3	.3	.3	.3	*	*	*	.0	.1	1.4	
	NO PCP	2.2	5.8	3.1	2.3	2.3	1.8	1.4	.8	.0	.9	20.6	
	TOT %	2.2	6.1	3.6	2.6	2.6	2.0	1.4	.9	.0	.9	22.4	
10+	PCP	.1	.2	.1	.1	.3	.2	*	*	.0	.0	.9	
	NO PCP	7.2	20.8	14.0	7.9	7.2	6.5	2.3	1.6	.0	1.9	69.3	
	TOT %	7.3	21.0	14.2	7.9	7.5	6.7	2.4	1.6	.0	2.0	70.9	
TOT OBS													3057
TOT PCT													10.1 29.0 19.1 11.4 10.9 9.4 4.1 2.9 .0 3.1 100.0

TABLE 9

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

VISBY (MM)	SFD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	.0	.0	.0	*	*	.0	*	.1	
	4-10	.0	*	*	.0	*	*	*	*	.0	*	.1	
	11-21	.0	.0	*	.0	*	*	.0	.0	.0	*	.1	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0	*	.0	
	TOT %	*	*	*	*	*	.1	*	*	.0	*	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	
	4-10	.0	.1	.1	*	*	*	*	*	.0	.0	.3	
	11-21	.0	.0	.0	.0	*	*	*	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.1	*	*	.1	*	*	.0	.0	.4	
1<2	0-3	*	.0	.0	.0	*	.0	.0	*	.0	*	.1	
	4-10	.0	*	.1	.1	*	.0	*	*	.0	.0	.3	
	11-21	.0	.0	*	*	.1	*	*	.0	.0	.0	.3	
	22+	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	TOT %	.1	.1	.1	.1	.1	.1	.1	.1	.0	*	.6	
2<5	0-3	.1	.0	.0	*	*	*	*	*	.0	.1	.2	
	4-10	.2	.3	.2	.3	.2	.1	.1	.1	.0	.0	1.5	
	11-21	.2	.7	.3	.3	.2	.2	*	*	.0	.0	2.0	
	22+	.0	.1	*	*	*	*	.0	.0	.0	.0	.3	
	TOT %	.4	1.1	.6	.6	.5	.4	.1	.2	.0	.1	4.0	
5<10	0-3	.1	.2	.1	.1	*	.1	.1	.1	.0	.0	1.7	
	4-10	.8	1.6	1.1	1.0	.9	.9	.4	.3	.0	.0	7.1	
	11-21	.3	1.9	1.2	.8	1.1	.6	.3	.1	.0	.0	6.3	
	22+	.1	.2	.1	.1	*	.1	*	.0	.0	.0	.6	
	TOT %	1.3	4.0	2.5	1.9	2.1	1.6	1.0	.5	.0	.0	16.0	
10+	0-3	.3	1.0	1.1	.7	.7	.6	.4	.3	.0	2.6	7.9	
	4-10	4.0	10.0	8.9	5.5	4.1	3.8	1.5	1.3	.0	.0	39.1	
	11-21	3.6	10.3	4.7	2.3	3.0	3.1	.8	.4	.0	.0	28.3	
	22+	.4	1.2	.4	.3	.4	.5	.2	.0	.0	.0	3.4	
	TOT %	8.6	22.5	19.1	8.8	8.2	8.0	2.9	2.1	.0	2.6	78.8	
TOT OBS													5749
TOT PCT													10.7 27.8 18.4 11.5 11.0 10.1 4.1 2.9 .0 3.3 100.0

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1854-1973

JULY

AREA 0009 RIO DE JANEIRO
22.73 41.3W

TABLE 10

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

HR (GMT)	000	100	200	300	400	500	600	700	800	900	1000	1500	2000	3000	4000	5000	6000	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	.0	.2	.5	5.0	6.1	4.1	3.3	1.0	.7	.3	21.1	78.9	606								
0600	.8	.0	.6	4.5	12.0	9.1	3.4	.9	.6	.5	29.5	70.5	641								
1200	.0	.3	1.3	6.0	10.4	6.8	4.1	1.4	.2	.5	30.9	69.1	634								
1800	.3	.2	.5	3.4	10.7	4.4	3.1	1.1	.2	.2	26.3	73.7	609								
TOT	8	4	18	118	245	154	99	28	10	9	673	1817	2490								
PCT	.3	.2	.7	4.7	9.8	5.4	4.0	1.1	.4	.4	27.0	73.0	100.0								

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
0000	.3	.4	.3	4.3	16.3	78.1	1711
0600	.5	.5	1.3	4.7	18.3	74.8	1331
1200	.2	.5	.8	3.3	16.2	79.1	1720
1800	.1	.3	.9	3.0	13.3	78.3	1138
TOT	19	23	48	234	976	4886	3900
PCT	.3	.4	.8	4.3	16.3	77.7	100.0

TABLE 12

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

HR (GMT)	<150 <500 FT	<600 <1000 FT	<1000 <1500 FT	<1500 <2000 FT	NM <5/8 AND 5+	TOTAL OBS
0000	.0	1.1	13.4	14.0	72.6	598
0600	.8	1.7	13.6	20.6	63.6	602
1200	.0	2.1	14.3	20.1	63.5	608
1800	.3	1.6	11.6	16.3	67.9	378
TOT	8	38	314	430	1802	2346
PCT	.3	1.6	13.4	16.3	68.3	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	.0	.0	.0	1	.7
70-74	.0	.0	.1	.1	.1	.2	.1	.0	18	10.2
75-79	.0	.0	.1	.4	1.7	4.9	2.2	.8	210	60.3
80-84	.0	.0	.2	1.4	7.8	13.6	24.1	11.4	1282	23.4
85-89	.0	.0	.4	1.4	3.8	6.3	8.6	4.9	349	3.2
90-94	.0	.0	.7	.2	.2	.8	.9	1.0	89	2.1
95-99	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
TOTAL	0	0	9	37	288	398	764	386	2123	100.0
PCT	.0	.0	.4	1.8	13.6	18.1	36.0	18.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65-69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
70-74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
75-79	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0
80-84	2.2	3.6	1.6	1.1	.3	.2	.1	.1	.0	.0
85-89	6.1	19.2	12.7	6.1	3.6	3.0	2.0	1.3	.0	.0
90-94	.8	4.3	4.7	4.3	3.9	3.9	1.4	.6	.0	.0
95-99	.2	.1	.3	.3	.7	.7	.3	.2	.0	.0
TOTAL	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCT	9.3	27.7	19.4	12.0	10.9	9.9	4.2	2.8	.0	3.3

TABLE 15

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

HR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	84	76	73	70	66	61	33	70.2	3494
0600	80	76	74	70	64	61	36	69.7	2392
1200	88	81	78	72	65	62	39	71.9	3604
1800	87	82	78	73	66	63	39	72.7	1990
TOT	88	80	77	71	65	62	35	71.0	11410

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	3.1	10.9	26.0	38.3	21.7	81	377		
0600	.0	2.4	10.9	22.5	39.2	25.0	82	381		
1200	.0	4.8	19.4	33.3	32.9	16.6	77	398		
1800	.0	6.1	19.8	30.7	33.2	10.2	77	479		
TOT	0	39	392	620	793	411	80	2205		

JULY

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1894-1973

AREA 0009 RIO DE JANEIRO
22.7S 41.3W

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	57 60	61 64	65 68	69 72	73 76	77 80	81 84	83 88	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	.1	4	.0	.2
11/13	.0	.0	.0	.0	.0	.1	.0	.0	3	.0	.2
9/10	.0	.0	.0	.0	.1	.2	.1	.0	11	.0	.3
7/8	.0	.0	.0	.1	.2	.3	.0	.0	21	.0	.9
6	.0	.0	.0	.1	.2	.2	.0	.0	13	.0	.6
5	.0	.0	.0	.2	.3	.3	.1	.0	41	.0	1.7
4	.0	.0	.2	.9	1.4	.3	.0	.0	70	.1	2.8
3	.0	.0	.2	1.2	2.3	.2	.1	.0	96	.0	3.9
2	.0	.0	.3	3.3	3.4	.3	.0	.0	183	.0	7.6
1	.0	.1	.8	4.9	4.8	.3	.0	.0	243	.2	10.6
0	.0	.2	1.8	10.0	3.3	.2	.0	.0	421	.1	17.4
-1	.0	.1	2.3	7.3	3.3	.3	.0	.0	334	.2	13.3
-2	.0	.2	3.4	7.8	2.7	.0	.0	.0	342	.1	13.9
-3	.0	.3	1.9	3.9	1.3	.0	.0	.0	178	.1	7.2
-4	.0	.3	2.3	4.2	.4	.1	.0	.0	182	.2	7.2
-5	.0	.3	1.4	1.7	.2	.0	.0	.0	93	.0	3.8
-6	.0	.3	1.4	1.2	.0	.0	.0	.0	71	.0	2.9
-7/-8	.0	.3	1.2	.9	.0	.0	.0	.0	67	.0	2.8
-9/-10	.0	.2	.3	.2	.0	.0	.0	.0	20	.0	.8
-11/-13	.0	.3	.1	.0	.0	.0	.0	.0	11	.0	.3
TOTAL	.4	.8	4.3	11.7	64.6	11	.3	.1	2492	2.7	24.0
PCT	.2	3.1	17.8	48.4	26.3	3.3	.3	.1	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

MGY	N					PCT	NE					PCT	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
01	.2	.7	.0	.0	.0	1.0	.3	1.8	.1	.0	.0	.0	2.3
1-2	.0	1.9	.7	.0	.0	2.7	.3	7.1	3.2	.0	.0	.0	10.8
3-4	.0	.7	1.6	.2	.0	2.4	.0	2.3	5.6	.4	.0	.0	8.5
5-6	.0	.3	1.0	.1	.0	1.9	.0	.4	4.3	.0	.0	.0	5.8
7	.0	.1	.3	.3	.0	.9	.0	.2	2.1	1.0	.0	.0	3.2
8-9	.0	.0	.3	.0	.0	.3	.0	.0	1.0	.0	.0	.0	1.1
10-11	.0	.0	.1	.0	.0	.1	.0	.0	.1	.2	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.7	4.1	.6	.0	8.6	.8	12.3	16.9	2.3	.0	.0	32.2

MGY	E					PCT	SE					PCT	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
01	.5	1.4	.0	.0	.0	1.9	.1	.3	.0	.0	.0	.0	.4
1-2	.2	3.3	1.9	.0	.0	7.7	.1	3.9	.4	.0	.0	.0	4.4
3-4	.2	2.3	2.9	.2	.0	5.3	.0	1.4	1.4	.0	.0	.0	2.9
5-6	.0	1.0	1.7	.1	.0	2.8	.0	.4	1.3	.0	.0	.0	1.9
7	.0	.0	1.1	.3	.0	1.4	.0	.0	.3	.2	.1	.0	.8
8-9	.0	.0	.1	.2	.0	.2	.0	.0	.3	.1	.0	.0	.4
10-11	.0	.0	.1	.2	.0	.3	.0	.0	.1	.1	.0	.0	.6
12	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.2	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	10.2	7.9	1.0	.0	20.1	.2	8.2	4.6	.6	.1	.0	11.7

PERIOD: (OVER-ALL) 1963-1973

JULY

AREA 0009 RIO DE JANEIRO
22.75 41.3W

TABLE 18 (CONT)

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

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.2	.6	.1	.0	.0	.0	.9	.0	.4	.0	.0	.0	.0	.4		
1-2	.0	1.6	.3	.0	.0	.0	2.1	.1	1.6	.5	.0	.0	.0	2.3		
3-4	.0	1.2	1.4	.1	.0	.0	3.0	.0	1.0	1.9	.0	.0	.0	2.9		
5-6	.0	.3	1.4	.1	.0	.0	1.8	.0	.2	1.6	.3	.0	.0	2.3		
7	.0	.0	.8	.2	.0	.0	1.0	.0	.0	.6	.0	.0	.0	.6		
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.2		
10-11	.0	.0	.3	.1	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.2	3.7	3.0	.4	.0	.0	9.3	.1	3.2	4.8	.6	.0	.0	8.8		

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.0	.2	.0	.0	.0	.0	.2	.1	.2	.0	.0	.0	.0	.3			
1-2	.2	1.3	.1	.0	.0	.0	1.6	.0	1.2	.0	.0	.0	.0	1.2			
3-4	.0	.7	.7	.0	.0	.0	1.4	.0	.0	.3	.0	.0	.0	.3			
5-6	.0	.2	.3	.1	.0	.0	.6	.0	.0	.2	.0	.0	.0	.3			
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.2			
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
TOT PCT	.2	2.4	1.1	.1	.0	.0	3.8	.1	1.5	.6	.1	.0	.0	2.3	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	4.9	5.9	.2	.0	.0	.0	11.1	
1-2	1.7	24.2	7.3	.0	.0	.0	33.2	
3-4	.2	9.6	19.9	.8	.0	.0	29.5	
5-6	.1	3.0	12.1	1.6	.0	.0	16.7	
7	.0	.3	5.4	1.9	.1	.0	7.9	
8-9	.0	.7	2.0	.3	.0	.0	2.9	
10-11	.0	.0	1.1	.4	.0	.0	1.7	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.2	.3	.0	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.0	43.0	44.8	5.8	.1	.0	100.0	1093

PERIOD: (OVER-ALL) 1940-1973

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<1	2.8	14.6	16.4	5.3	1.8	.7	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	772	3
1-2	.1	2.0	8.0	9.4	4.9	2.0	1.3	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	539	3
3-4	.0	.4	1.7	3.7	3.3	2.0	.7	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	256	6
5-6	.0	.8	.3	.7	.8	1.0	.3	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	6
7	.0	.0	.7	.2	.3	.2	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	6
8-9	.0	.0	.0	.1	.0	.0	.3	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	11
INDEX	4.7	1.3	3.0	1.4	.9	.3	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	236	3
TOTAL	146	370	346	602	237	124	61	19	10	2	1	2	0	0	0	0	0	0	0	0	1923	4
PCT	7.6	19.2	28.4	20.9	12.3	6.4	3.2	.9	.8	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1953-1974

AREA 0009 RIO DE JANEIRO
22.75 41.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SH.R	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.9	.7	.6	.0	.0	.0	.0	2.1	.0	.6	2.8	.0	3.1	.0	91.4
NE	.4	.3	.6	.0	.0	.0	.0	1.3	1.1	.5	3.1	.0	2.4	.0	91.5
E	1.6	.6	1.0	.0	.0	.0	.0	3.2	2.4	.7	1.9	.2	2.3	.0	89.3
SE	2.7	.9	2.2	.0	.0	.0	.0	6.1	2.3	.6	1.6	.0	1.3	.0	88.2
S	3.8	2.0	2.0	.0	.0	.0	.0	9.6	3.4	.3	1.6	.3	3.1	.0	81.6
SW	2.3	3.9	1.2	.0	.0	.0	.0	7.3	2.9	2.9	2.0	.1	3.6	.0	81.2
W	4.5	3.8	1.6	.0	.0	.0	.0	8.9	.8	1.0	3.3	.0	6.3	.0	77.7
NW	1.9	.8	3.1	.0	.0	.0	.0	3.8	.0	.0	3.3	.0	3.3	.0	80.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	1.3	1.3	.0	.0	.0	.0	2.7	.0	1.3	8.0	2.7	4.0	.0	81.3
TOT PCT	1.8	1.1	1.2	.0	.0	.0	.0	4.0	1.6	.8	2.8	.1	2.3	.0	87.8
TOT OBS:	2869														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0600	1.8	.8	1.1	.0	.0	.0	.0	3.8	1.0	.7	1.4	.1	1.7	.0	91.3
0609	1.4	.6	2.0	.0	.0	.0	.1	3.9	2.0	1.2	3.3	.0	2.3	.0	86.0
1219	2.8	2.1	.3	.0	.0	.0	.0	3.4	1.8	.1	4.2	.1	4.0	.0	84.4
1821	.7	.7	1.0	.0	.0	.0	.0	2.4	1.3	.3	2.8	.3	3.6	.0	89.2
TOT PCT	1.7	1.1	1.1	.0	.0	.0	.0	3.9	1.6	.8	3.0	.1	3.0	.0	87.6
TOT OBS:	2993														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-29	34-47	48+				00	03	06	09	12	15	18	21
N	.8	4.4	3.4	1.2	.0	.0	11.9	12.6	8.2	9.0	11.1	12.9	16.1	13.9	10.8	9.6
NE	1.0	11.4	13.0	3.5	.1	.0	30.0	12.7	29.2	29.4	30.6	27.7	30.1	28.4	22.4	28.7
E	1.3	8.6	6.3	.7	.0	.0	17.2	10.3	20.6	20.3	17.3	19.2	14.3	13.1	13.3	18.2
SE	1.0	3.7	3.7	.6	.0	.0	11.1	10.4	13.1	11.8	9.9	11.2	9.1	10.3	12.3	14.1
S	1.1	4.8	3.4	.3	.0	.0	9.8	10.4	12.2	10.0	9.3	7.9	8.1	8.2	11.0	9.8
SW	.7	4.0	3.6	1.0	.1	.0	9.4	12.1	8.8	9.0	9.4	8.3	9.8	8.2	10.2	10.3
W	.6	2.1	1.3	.3	.0	.0	4.3	10.1	3.0	3.8	4.3	7.3	3.3	3.2	3.1	3.8
NW	.4	1.4	.8	.2	.0	.0	2.9	9.9	1.6	2.3	2.6	3.1	3.0	4.9	2.3	3.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3						3.3	.0	3.3	4.2	3.0	2.4	3.9	2.8	2.1	1.6
TOT OBS	1087	4434	4133	739	38	0	10433	11.1	1811	1362	1908	168	1764	1393	1637	190
TOT PCT	10.4	42.4	30.7	7.1	.4	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40					00	03	06	09	12	15	18	21
N	2.3	3.9	3.1	.4	.0	11.9	12.6	8.6	11.2	16.0	10.7				
NE	4.9	16.6	7.8	.7	.0	30.0	12.7	25.3	30.3	23.3	32.0				
E	4.8	9.7	2.3	.1	.0	17.2	10.3	20.3	17.3	14.8	13.6				
SE	3.6	3.4	1.9	.2	.0	11.1	10.4	12.3	10.0	9.6	12.6				
S	3.2	4.8	1.7	.1	.0	9.8	10.4	11.2	9.4	8.2	10.8				
SW	2.3	4.3	2.1	.4	.0	9.4	12.1	8.9	9.4	9.3	10.2				
W	1.3	2.0	.7	.1	.0	4.3	10.1	3.4	4.8	3.4	3.2				
NW	1.1	1.3	.4	.1	.0	2.9	9.9	2.0	2.6	3.9	2.8				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	3.3					3.3	.0	3.7	4.8	3.4	2.1				
TOT OBS	2878	5251	2109	209	6	10433	11.1	3173	2076	3337	1847				
TOT PCT	27.3	50.2	20.2	2.0	.1	100.0		100.0	100.0	100.0	100.0				

AUGUST

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1855-1974

AREA 0009 RIO DE JANEIRO
22.7S 41.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000Z	3.7	7.1	44.0	37.4	7.2	.6	.0	11.0	100.0	2173
0600Z	4.8	6.7	41.3	40.0	6.5	.1	.0	11.0	100.0	2076
1200Z	3.4	7.3	41.0	40.7	7.0	.3	.0	11.2	100.0	2387
1800Z	2.1	3.3	43.3	41.6	7.2	.3	.0	11.3	100.0	1507
TOT	3.6	7.1	44.3	41.5	7.3	.3	.0	11.1		10433
PCT	3.3	6.9	42.4	39.7	7.1	.4	.0		100.0	

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	20.6	6.9	3.3	1.8		2.3
E	8.7	3.9	4.0	7.1		3.2
SE	2.8	1.9	3.0	1.9		4.3
S	2.2	1.0	2.9	3.4		3.2
SW	1.7	.8	2.6	2.9		3.4
W	1.2	.3	.9	1.3		4.8
NW	.5	.2	.4	.3		4.0
VAR	.0	.0	.0	.0		3.0
CALM	1.4	.3	.6	.4		3.0
TOT OBS	1002	369	464	313	2148	3.4
TOT PCT	46.6	17.2	21.6	14.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, MM & /8)
AND OCCURRENCE OF NM < 3/8 BY WIND DIRECTION

WIND DIR	CEILING HEIGHTS (FT, MM & /8)										NM < 3/8 ANY HGT	TOTAL OBS
	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+		
N	.0	.0	.0	.4	.3	.4	.2	.0	.1	.0	10.4	
NE	.0	.0	.1	.7	1.7	1.2	.4	.1	.6	.0	30.1	
E	.0	.0	.1	.7	1.3	.9	.8	.1	.0	.1	14.3	
SE	.0	.0	.1	1.0	.9	.8	.5	.1	.2	.1	3.7	
S	.2	.0	.1	.9	1.5	1.3	.8	.3	.1	.1	4.4	
SW	.2	.0	.1	.8	1.3	1.7	.6	.2	.0	.0	3.7	
W	.0	.0	.0	.3	.6	.7	.1	.0	.0	.0	1.8	
NW	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	1.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.3	.0	.0	.0	.0	.0	2.0	
TOT OBS	11	2	13	109	180	130	61	19	9	10	2148	
TOT PCT	.5	.1	.6	5.1	8.4	6.1	2.7	.9	.4	.5	73.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM > 3/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>3	>1	>1/2	>1/4	>30YD	>0
>3000	.6	.6	.7	.8	.9	.9	.9	.9
>2000	1.0	1.1	1.4	1.6	1.7	1.8	1.8	1.9
>1500	3.7	4.4	5.1	5.3	5.6	5.6	5.7	5.7
>1000	7.3	9.4	10.3	11.1	11.4	11.5	11.6	11.6
>500	12.3	17.2	18.6	19.3	19.6	19.7	19.8	19.8
>300	16.3	22.1	23.7	24.4	24.8	24.9	25.0	25.0
>200	18.7	23.6	24.3	25.0	25.4	25.3	25.6	25.6
>150	18.7	22.7	24.4	25.1	25.3	25.3	25.7	25.7
>0	18.7	22.8	24.6	25.6	26.0	26.0	26.2	26.2
TOTAL	367	500	539	561	569	571	574	574

TOTAL NUMBER OF OBS: 2192 PCT FREQ NM < 3/8: 73.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 DBSCD	TOTAL OBS
27.1	16.0	12.3	10.0	7.7	4.8	4.8	4.0	11.0	2318

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1855-1974

AUGUST

AREA 0009 RIO DE JANEIRO
22.75 41.34

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.2	.1	.1	.1	.1	.1	.0	.0	.0	.1	.6
	TOT %	.0	.2	.1	.1	.1	.1	.1	.1	.0	.0	.1	.7
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
	NO PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.3
	TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3
1<2	PCP	.0	.0	.1	.1	.1	.1	.0	.1	.0	.0	.0	.4
	NO PCP	.1	.3	.1	.1	.2	.1	.1	.1	.0	.0	.0	1.0
	TOT %	.1	.3	.2	.2	.3	.2	.1	.1	.0	.0	.0	1.6
2<5	PCP	.0	.0	.1	.0	.1	.1	.1	.0	.0	.0	.0	.3
	NO PCP	.4	1.0	.8	.4	.5	.3	.2	.2	.0	.0	.2	4.3
	TOT %	.4	1.0	.8	.4	.5	.4	.3	.2	.0	.0	.2	5.2
5<10	PCP	.0	.3	.2	.3	.4	.3	.2	.0	.0	.0	.0	1.7
	NO PCP	2.2	3.2	3.2	1.9	2.3	2.2	1.0	.7	.0	.0	.6	19.4
	TOT %	2.2	3.5	3.4	2.2	2.7	2.5	1.2	.7	.0	.0	.7	21.2
10+	PCP	.1	.2	.2	.2	.3	.0	.1	.0	.0	.0	.0	1.2
	NO PCP	8.9	24.8	13.1	6.9	6.0	4.9	2.3	1.1	.0	1.6	69.4	
	TOT %	9.1	25.0	13.3	7.1	6.3	4.9	2.6	1.2	.0	1.6	71.0	
TOT OBS													2864
TOT PCT													12.0 32.7 17.9 10.0 9.9 8.2 4.3 2.3 .0 2.6 100.0

TABLE 9

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

VISBY (MM)	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	.2	.2
	4-10	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	.6
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.3
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.7
	11-21	.0	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.1	.2	.2	.2	.2	.2	.1	.1	.0	.0	.0	1.3
2<5	0-3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	.6
	4-10	.2	.3	.3	.2	.3	.2	.2	.1	.0	.0	.0	1.8
	11-21	.1	.6	.4	.2	.2	.2	.0	.0	.0	.0	.0	1.7
	22+	.0	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.3
	TOT %	.4	1.3	.8	.5	.5	.5	.3	.1	.0	.0	.3	4.6
5<10	0-3	.2	.2	.3	.3	.3	.1	.1	.1	.0	.0	.6	2.2
	4-10	1.0	1.3	1.6	1.0	1.3	1.1	.6	.4	.0	.0	.0	6.7
	11-21	.6	2.3	1.3	.7	.9	1.0	.3	.1	.0	.0	.0	7.4
	22+	.0	.4	.2	.1	.1	.3	.0	.0	.0	.0	.0	1.3
	TOT %	1.8	4.0	3.4	2.2	2.6	2.5	1.1	.6	.0	.0	.6	19.8
10+	0-3	.3	.6	.8	.8	.7	.3	.3	.2	.0	1.9	.0	6.1
	4-10	3.1	9.3	7.0	4.2	2.7	2.6	1.3	.8	.0	.0	.0	31.2
	11-21	4.8	12.8	9.7	2.8	2.5	2.5	.9	.3	.0	.0	.0	32.2
	22+	.5	1.8	.4	.3	.7	.6	.2	.0	.0	.0	.0	4.1
	TOT %	9.0	24.8	19.8	7.8	6.1	6.1	2.9	1.3	.0	1.9	.0	73.7
TOT OBS													3436
TOT PCT													11.4 31.0 18.3 10.7 9.4 9.3 4.3 2.2 .0 3.1 100.0

AUGUST

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1855-1974

AREA 0009 RIO DE JANEIRO
22.75 41.3W

TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
0000	.9	.2	.9	4.5	6.8	4.8	3.4	.9	.5	.4	23.2	76.8	561
0600	.7	.2	.9	5.8	7.5	6.6	4.9	.4	.2	.5	27.7	72.3	548
1215	.2	.0	.2	4.8	8.8	7.1	3.4	1.0	.5	.2	26.2	73.8	588
1821	.2	.0	.3	4.9	8.7	4.9	3.3	1.4	.3	.9	24.9	75.1	575
TOT	11	2	13	113	181	193	83	21	9	11	379	1693	2272
PCT	.5	.1	.6	5.0	8.0	3.9	3.7	.9	.4	.5	23.3	74.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL
(GMT)							OBS
0000	.3	.3	1.2	4.8	18.2	75.2	1878
0600	1.3	.9	1.0	3.0	16.1	72.9	1190
1215	1.1	.9	1.3	4.5	20.4	71.6	1003
1821	.7	.6	1.4	4.8	21.2	70.9	1123
TOT	47	23	76	276	1093	4037	3584
PCT	.8	.5	1.4	5.0	19.7	72.7	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NH <5/8	TOTAL
(GMT)	<500	<1	<5	AND 5+	AND 5+	OBS
0000	.9	2.4	12.7	14.2	72.8	545
0600	.8	3.1	15.7	18.4	65.4	521
1215	.4	2.3	12.8	19.3	62.0	571
1821	.2	1.8	12.4	16.8	70.4	555
TOT	12	32	293	378	1521	2192
PCT	.5	2.4	13.4	17.2	69.4	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	PCT
									OBS	FREQ
90/94	.0	.0	.1	.0	.0	.0	.0	.0	1	.1
80/84	.0	.1	.2	.4	.7	.4	.0	.1	34	1.7
75/79	.0	.0	.1	.4	1.5	5.2	2.7	.7	213	10.7
70/74	.0	.0	.1	.9	4.7	12.7	23.8	14.3	1123	56.6
65/69	.0	.0	.0	1.2	4.0	5.4	9.6	7.3	546	27.3
60/64	.0	.0	.1	.3	.8	.6	.3	1.1	63	3.3
55/59	.0	.0	.0	.0	.0	.1	.0	.1	2	.1
TOTAL	.0	1	9	61	231	487	723	470	1994	100.0
PCT	.0	.1	.7	3.1	11.6	24.5	36.3	23.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
80/84	.3	.4	.1	.2	.2	.2	.0	.0	.0	.1
75/79	2.8	4.8	1.2	.6	.4	.3	.4	.2	.0	.2
70/74	7.0	21.9	10.1	5.4	4.6	3.5	1.3	.9	.0	1.7
65/69	1.7	3.0	6.1	4.4	4.2	3.2	1.4	.3	.0	1.0
60/64	.2	.2	.2	.2	.8	.9	.6	.2	.0	.1
55/59	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
TOTAL	12.2	32.1	17.8	10.8	10.2	8.2	3.4	1.8	.0	3.0

TABLE 15

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

HR	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
0000	83	76	74	70	64	62	56	69.9	3174
0600	83	76	74	70	64	61	55	69.4	2080
1215	90	80	77	71	66	62	55	71.7	3290
1821	90	82	78	73	66	63	55	72.3	1813
TOT	90	80	76	71	64	62	55	70.8	10357

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
0000	.0	2.3	8.0	23.9	34.9	30.8	33	522		
0600	.0	2.7	8.4	16.9	40.1	31.9	83	474		
1215	.0	4.8	12.9	23.8	37.9	20.8	80	559		
1821	.0	4.2	17.1	33.3	32.1	13.3	78	474		
TOT	0	72	233	496	736	490	81	2039		

AUGUST

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1855-1974

AREA 0009 RIO DE JANEIRO
22.75 41.3W

TABLE 17

PCT FRQG OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH-OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIP	53	57	61	65	69	73	77	81	85	89	TOT	M FOG	MD FOG
14/16	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	4	.0	.2
11/13	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	9	.0	.3
9/10	.0	.0	.0	.0	.0	.1	.3	.3	.0	.0	18	.0	.8
7/8	.0	.0	.0	.0	.2	.5	.3	.1	.0	.0	28	.0	1.2
6	.0	.0	.0	.0	.1	.6	.4	.1	.0	.0	31	.0	1.3
5	.0	.0	.0	.1	.3	1.4	.9	.1	.0	.0	57	.0	2.3
4	.0	.0	.0	.4	1.6	1.8	.8	.0	.0	.0	101	.2	4.1
3	.0	.0	.1	.4	2.0	2.2	.9	.0	.0	.0	121	.0	3.2
2	.0	.0	.1	.9	4.6	4.3	.9	.0	.0	.0	237	.2	10.0
1	.0	.0	.0	1.3	6.6	4.3	.2	.0	.0	.0	287	.2	12.1
0	.0	.0	.0	2.3	9.0	4.3	.2	.0	.0	.0	306	.3	16.7
-1	.0	.0	.0	2.3	7.6	2.6	.0	.0	.0	.0	292	.1	12.4
-2	.0	.0	.0	2.7	6.7	1.6	.0	.0	.0	.0	269	.0	11.0
-3	.0	.0	.0	1.8	3.9	.7	.0	.0	.0	.0	153	.2	6.3
-4	.0	.0	.0	2.3	2.1	.4	.0	.0	.0	.0	116	.1	5.0
-5	.0	.0	.0	1.4	1.1	.2	.0	.0	.0	.0	79	.0	3.4
-6	.0	.0	.0	.9	.9	.2	.0	.0	.0	.0	55	.1	2.3
-7-8	.0	.0	.0	.7	.6	.4	.1	.0	.0	.0	41	.0	1.6
-9/+10	.0	.0	.0	.5	.2	.1	.0	.0	.0	.0	21	.0	.9
-11/+13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.2
TOTAL	1	7	71	437	967	88	19	1	1	2923	32	2271	
PCT	.0	.3	3.1	18.4	48.3	23.3	3.8	.8	.0	100.0	2.2	97.8	

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.1	.4	.0	.0	.0	.0	.9	.0	1.0	.0	.0	.0	.0	1.0
1-2	.1	1.4	.9	.0	.0	.0	1.9	.4	6.9	3.1	.0	.0	.0	10.4
3-4	.0	.0	1.5	.2	.0	.0	2.4	.2	3.3	8.3	1.4	.0	.0	13.3
5-6	.0	.1	1.3	.1	.0	.0	1.5	.0	.7	7.4	.9	.0	.0	8.9
7	.1	.2	1.1	.2	.0	.0	1.6	.0	.0	2.4	1.0	.0	.0	3.9
8-9	.0	.0	.1	.4	.0	.0	.3	.0	.0	1.2	.8	.0	.0	2.0
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.1	.2	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.1	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.8	4.9	1.0	.0	.0	8.5	.4	12.0	23.4	4.2	.1	.0	40.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.1	.0	.2	.0	.0	.0	.9	.0	.6	.0	.0	.0	.0	.6
1-2	.4	4.2	1.1	.0	.0	.0	5.7	.0	1.6	.3	.0	.0	.0	1.8
3-4	.0	3.1	3.8	.0	.0	.0	6.9	.0	1.7	.9	.1	.0	.0	2.7
5-6	.0	.6	3.5	.3	.0	.0	4.4	.0	.2	2.2	.0	.0	.0	2.4
7	.0	.0	.9	.2	.0	.0	1.1	.0	.2	.3	.1	.0	.0	.9
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.2
10-11	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.1	.0	.0	.2
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	8.6	9.9	.3	.0	.0	19.3	.0	4.6	4.0	.4	.0	.0	8.9

PERIOD: (OVER-ALL) 1963-1974

AUGUST

AREA 0009 RIO DE JANEIRO
22.75 41.34

TABLE 18 (CONT)

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

HGT	S								PCT	SW								PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10		11-21	22-33	34-47	48+					
<1	.1	.6	.0	.0	.0	.0	.7	.0	.2	.0	.0	.0	.0	.0	.2			
1-2	.4	1.7	.4	.0	.0	.0	2.1	.1	1.6	.7	.0	.0	.0	.0	2.4			
3-4	.1	.7	2.0	.2	.0	.0	3.1	.0	.1	1.3	.1	.0	.0	.0	1.7			
5-6	.0	.1	1.2	.1	.0	.0	1.3	.0	.8	1.0	.1	.0	.0	.0	1.1			
7	.0	.0	.9	.1	.0	.0	1.0	.0	.0	.6	.2	.0	.0	.0	.8			
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0	.1			
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0			
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.2	.0	.0	.0	.3			
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
TOT PCT	.8	2.7	4.7	.8	.0	.0	8.6	.1	1.9	3.0	.7	.0	.0	.0	6.3			

HGT	M								PCT	NW								PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10		11-21	22-33	34-47	48+						
<1	.0	.4	.0	.0	.0	.0	.4	.0	.1	.1	.0	.0	.0	.0	.3				
1-2	.0	1.3	.2	.0	.0	.0	1.6	.0	.3	.0	.0	.0	.0	.0	.3				
3-4	.0	.6	.3	.2	.0	.0	1.3	.0	.3	.8	.0	.0	.0	.0	.3				
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0				
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.2				
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0				
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
TOT PCT	.0	2.3	1.1	.3	.0	.0	3.7	.0	.9	.3	.0	.0	.0	.0	1.3				

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	3.6	3.8	.3	.0	.0	.0	7.7	0.3
1-2	1.6	18.8	6.1	.0	.0	.0	26.6	31.3
3-4	.3	10.3	18.3	2.2	.0	.0	31.3	19.6
5-6	.0	1.7	16.4	1.5	.0	.0	19.6	9.1
7	.1	.4	6.8	1.8	.0	.0	9.1	3.3
8-9	.0	.2	1.9	1.4	.0	.0	3.3	.8
10-11	.0	.3	.3	.2	.0	.0	.8	1.3
12	.0	.0	.8	.3	.1	.0	1.3	.1
13-16	.0	.0	.0	.1	.0	.0	.1	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	5.6	35.0	31.2	7.5	.1	.0	100.0	94.8

PERIOD: (OVER-ALL) 1949-1974

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	J7+	TOTAL	MEAN HGT	
<1	1.7	12.6	14.6	6.3	1.9	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	676	3
1-2	.2	1.9	10.0	10.6	6.2	1.2	1.0	.3	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	366	3
3-4	.0	.5	1.7	3.7	3.1	2.6	.7	.7	.3	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	239	7
5-6	.0	.0	.3	.3	1.0	.6	.4	.2	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	63	7
7-9	.0	.0	.0	.3	.1	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	5
10-11	.0	.0	.0	.2	.1	.0	.2	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	9	10
12-13	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	203	3
15-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1760	4
TOTAL	97	292	343	422	233	93	28	9	2	3	2	2	2	1	0	0	0	0	0	0	1760	4
PCT	3.4	16.6	30.3	23.7	13.2	3.2	2.0	1.6	.3	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1855-1973

AREA 0009 RIO DE JANEIRO
22.75 41.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAUL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG
N	2.8	.4	1.1	.0	.0	.0	.0	4.2	1.9	.4	3.6	.0	7.8	.0	82.5
NE	1.4	.5	.2	.0	.0	.0	.0	2.1	.5	.4	2.0	.1	5.5	.0	87.3
E	2.2	.7	1.4	.0	.0	.0	.0	4.1	2.4	.4	4.0	.0	6.7	.0	84.5
SE	5.5	1.5	3.2	.0	.0	.0	.0	9.6	3.5	1.8	1.7	.0	4.6	.0	79.7
S	2.2	1.0	2.6	.0	.0	.0	.0	6.4	2.5	.5	3.2	.0	5.3	.0	82.4
SW	4.1	3.1	5.3	.0	.0	.0	.0	9.7	2.4	1.3	1.9	.4	7.0	.0	77.8
W	5.3	1.0	1.4	.0	.0	.0	.0	7.8	1.6	.8	6.9	.4	5.3	.0	76.1
NW	2.6	.0	1.9	.0	.0	.0	.0	4.3	.0	1.9	4.8	.0	12.5	.5	78.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALP	3.9	.0	2.0	.0	.0	.0	.0	7.8	3.9	2.0	7.8	.0	19.6	.0	60.8
TOT PCT	2.7	1.0	1.4	.0	.0	.0	.0	4.9	1.8	.7	3.3	.1	6.3	.0	83.0
TOT OBS:	2778														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAUL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG
0000Z	3.6	1.6	1.6	.0	.0	.0	.0	6.8	2.2	1.8	2.3	.1	4.9	.1	81.8
0600Z	2.9	1.3	1.3	.0	.0	.0	.0	5.3	1.8	1.4	3.3	.0	4.2	.0	84.7
1201Z	2.2	.9	1.1	.0	.0	.0	.0	4.0	1.7	.0	4.4	.1	7.3	.0	82.4
1802Z	2.1	.1	1.6	.0	.0	.0	.0	3.8	1.1	.0	3.1	.1	6.6	.0	83.1
TOT PCT	2.7	1.0	1.4	.0	.0	.0	.0	5.0	1.7	.7	3.4	.1	6.3	.0	83.0
TOT OBS:	2885														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT PRG	MEAN SPD	HOUR (GMT)						
	0-6	7-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.6	3.2	4.8	1.2	.2	.0		9.9	13.6	7.1	7.1	10.5	10.4	12.7	12.2	9.8	6.5
NE	1.0	9.2	14.4	3.9	.1	.0		28.6	14.0	27.3	27.3	30.2	32.3	28.0	28.3	30.3	33.0
E	1.1	8.3	7.0	1.3	.0	.0		17.8	11.3	20.3	19.4	14.9	20.8	16.0	16.8	16.8	20.7
SE	1.0	6.4	3.8	.6	.0	.0		11.7	10.2	13.6	11.7	10.3	12.2	11.0	12.0	11.8	12.1
S	.8	3.0	3.4	.7	.0	.0		10.0	10.6	11.1	10.4	9.0	6.6	8.4	9.9	11.3	11.7
SW	.9	4.9	3.7	.7	.0	.0		10.3	11.0	10.2	10.8	9.0	8.9	10.2	10.1	12.1	6.3
W	.8	2.8	1.4	.4	.0	.0		3.4	10.1	3.1	3.8	3.7	3.2	6.1	6.1	3.6	4.4
NW	.3	1.3	.6	.1	.0	.0		2.8	8.6	1.9	2.9	3.4	2.8	3.4	3.8	1.6	2.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6							3.6	.0	3.2	4.5	3.0	.7	4.2	2.7	2.2	.7
TOT OBS	1018	4082	3869	886	42	3	9902		11.6	1713	1300	1905	144	1689	1391	1613	147
TOT PCT	10.3	41.2	38.1	8.9	.4	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT PRG	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	3.0	4.3	3.2	.4		9.9	13.6	7.1	10.5	12.5	9.6
NE	4.1	13.8	9.7	.9		28.6	14.0	27.4	30.3	27.3	30.7
E	4.2	9.4	4.0	.2		17.8	11.3	19.8	17.2	16.4	17.1
SE	3.5	6.4	1.6	.2		11.7	10.2	12.9	10.4	11.4	11.9
S	3.1	3.0	1.4	.2		10.0	10.6	10.8	8.9	9.1	11.4
SW	3.0	5.1	1.8	.3		10.3	11.0	10.3	9.0	10.1	11.6
W	2.1	2.3	.8	.2		3.4	10.1	3.4	3.6	6.1	4.0
NW	1.3	1.2	.3	.0		2.8	8.6	2.3	3.4	3.6	1.7
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.6					3.6	.0	3.8	4.7	3.9	2.0
TOT OBS	2879	4697	2275	236	15	9902		7013	2049	3080	1760
TOT PCT	27.1	47.4	23.0	2.4	.2		100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1859-1973

SEPTEMBER

AREA 0009 RIO DE JANEIRO
22.75 41.5W

TABLE 4
PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT PREG	TOTAL OBS
				11-21	22-33	34-47	48+			
0000Z	3.8	6.1	42.0	38.1	6.7	.2	.1	11.5	100.0	3013
0600Z	4.7	7.4	40.4	38.7	6.2	.6	.0	11.3	100.0	2049
1200Z	3.9	7.8	40.6	38.1	9.5	.5	.0	11.5	100.0	3080
1800Z	2.0	3.1	40.3	42.9	9.3	.4	.0	12.2	100.0	1780
TOT	394	464	4082	3869	886	42	5	11.6		9902
PCT	3.6	6.7	41.2	39.1	8.9	.4	.1		100.0	

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N*	19.6	3.3	6.7	5.4		3.1
E	3.7	2.2	3.8	3.4		4.3
SE	2.2	1.3	2.8	3.7		3.2
S	2.1	1.2	2.9	3.9		3.4
SW	1.3	1.1	2.9	3.7		3.8
W	.9	.6	1.1	1.7		3.4
NW	.4	.1	.9	.7		3.3
VAR	.0	.0	.0	.0		.0
CALM	.6	.6	.9	.6		4.6
TOT OBS	789	301	483	391	2164	4.3
TOT PCT	34.5	13.9	22.3	17.3	100.0	

TABLE 6

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

WIND DIR	CEILING HEIGHTS (FT, MH >4/8)										MH <5/8	TOTAL OBS
	000	130	300	400	1000	2000	3000	3000	6500	8000+		
N	.2	.0	.2	.7	.6	.3	.5	.1	.2	.1	.1	6.9
N*	.7	.0	.3	1.6	2.3	1.4	.5	.2	.2	.4	.2	28.8
E	.3	.0	.2	1.3	2.3	1.4	.7	.2	.2	.2	.2	10.9
SE	.3	.0	.1	.6	1.2	1.4	.4	.2	.2	.2	.2	3.4
S	.2	.1	.1	1.1	1.4	1.1	.6	.6	.1	.0	.1	4.7
SW	.1	.1	.4	1.2	1.3	.9	.4	.3	.0	.0	.1	3.3
W	.2	.0	.1	.6	.6	.3	.7	.1	.0	.0	.1	2.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9
VAR	.2	.0	.1	.1	.2	.2	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9
TOT OBS	30	3	39	197	223	164	84	37	18	22	1389	2164
TOT PCT	2.9	.2	1.6	7.3	10.3	7.6	3.0	1.7	.8	1.0	64.2	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM)								
	>10	>8	>6	>4	>3 1/2	>3	>2 1/2	>2	>1 1/2
>4000	1.1	1.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9
>3000	1.9	2.7	3.4	3.6	3.7	3.7	3.7	3.7	3.7
>2000	3.5	3.0	4.3	4.4	4.6	4.6	4.6	4.6	4.6
>1000	8.2	11.7	13.3	13.8	14.0	14.0	14.0	14.0	14.0
>400	13.4	21.2	23.9	23.9	24.1	24.1	24.2	24.2	24.2
>300	19.3	27.7	30.3	31.0	31.2	31.2	31.3	31.3	31.3
>200	26.1	28.8	31.6	32.6	32.6	32.8	32.9	32.9	32.9
>150	30.1	29.0	32.1	32.8	32.1	33.1	33.1	33.1	33.1
>100	38.3	29.6	33.9	33.1	33.4	33.4	33.4	33.4	33.4
TOTAL	444	648	743	768	774	774	776	776	777

TOTAL NUMBER OF OBS: 2169

PCT FREQ MH <5/8: 64.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
24.9	13.5	10.6	8.4	7.3	4.3	3.0	7.1	10.3	2.1	2328

SEPTEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1857-1973

AREA 0009 RIO DE JANEIRO
22.7S 41.5W

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.7	
	TOT %	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.8	
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.1	.1	.0	.1	.2	.0	.0	.0	.0	.9	
	TOT %	.0	.1	.1	.0	.1	.2	.0	.0	.0	.0	.9	
1<2	PCP	.0	.1	.0	.2	.1	.1	.1	.0	.0	.0	.9	
	NO PCP	.1	.7	.2	.2	.3	.3	.1	.0	.0	.0	1.0	
	TOT %	.2	.8	.2	.4	.3	.3	.2	.0	.0	.0	2.9	
2<5	PCP	.1	.3	.0	.2	.1	.1	.2	.0	.0	.0	1.1	
	NO PCP	.7	1.7	1.2	.8	.6	.9	.6	.3	.0	.0	6.8	
	TOT %	.7	2.0	1.2	.8	.7	1.0	.8	.3	.0	.0	7.9	
5<10	PCP	.8	.1	.3	.3	.2	.6	.0	.0	.0	.0	2.1	
	NO PCP	2.6	7.9	3.9	2.1	2.4	2.7	1.6	.5	.0	.0	24.3	
	TOT %	3.8	8.0	4.8	2.5	2.6	3.3	1.6	.5	.0	.0	26.4	
10+	PCP	.1	.2	.1	.2	.2	.1	.0	.0	.0	.0	1.0	
	NO PCP	8.9	24.1	11.3	6.4	6.0	4.2	1.6	1.0	.0	.0	61.9	
	TOT %	6.0	24.3	11.6	6.6	6.1	4.2	1.7	1.0	.0	.0	62.9	
TOT OBS												2776	
TOT PCT		9.8	35.2	17.6	10.3	9.9	9.1	4.4	1.9	.0	1.8	100.0	

TABLE 9

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

VISBY (MM)	SPEED 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	.1	.2
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.6
1<2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	.5
	4-10	.1	.3	.1	.2	.1	.2	.1	.1	.0	.0	.0	1.8
	11-21	.1	.4	.1	.1	.2	.1	.1	.0	.0	.0	.0	1.0
	22+	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3
	TOT %	.2	.8	.2	.3	.4	.3	.2	.1	.0	.0	.2	3.0
2<5	0-3	.1	.1	.1	.1	.0	.1	.1	.0	.0	.0	.5	1.0
	4-10	.3	.7	.7	.3	.3	.3	.4	.2	.0	.0	.0	3.5
	11-21	.4	.9	.6	.4	.3	.4	.1	.1	.0	.0	.0	3.3
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.8	1.9	1.6	1.0	.7	1.1	.8	.3	.0	.0	.5	6.9
5<10	0-3	.1	.1	.1	.1	.2	.1	.2	.1	.0	.0	.8	1.9
	4-10	.8	2.0	1.8	1.1	1.2	1.4	.7	.4	.0	.0	.0	9.3
	11-21	1.3	3.7	2.1	1.1	1.2	1.3	.8	.1	.0	.0	.0	11.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	2.8	7.2	4.4	2.4	2.7	3.1	1.8	.7	.0	.0	.8	23.7
10+	0-3	.2	.5	.5	.6	.4	.3	.3	.1	.0	1.6	4.4	
	4-10	1.7	6.1	3.8	4.3	3.0	2.2	1.2	.3	.0	.0	24.7	
	11-21	3.3	12.2	9.3	2.0	1.8	1.6	.7	.3	.0	.0	27.4	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2
	TOT %	6.0	21.8	12.4	7.1	5.3	4.4	2.3	1.0	.0	1.6	61.7	
TOT OBS												5265	
TOT PCT		9.9	31.3	16.7	10.9	9.4	9.3	5.0	2.1	.0	3.2	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1919-1973
(OVER-ALL) 1855-1973

AREA 0009 RIO DE JANEIRO
22.75 41.3M

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3000	5000	6000	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000Z	3.7	.2	1.3	6.9	8.8	4.9	3.2	1.1	.4	.7	31.2	88.8	535
0600Z	2.9	.3	2.0	7.8	11.3	7.6	2.0	2.0	1.0	.8	38.1	61.9	591
1201Z	1.4	.3	1.6	7.5	11.3	9.6	3.1	2.3	1.0	1.0	39.2	60.8	574
1802Z	1.2	.0	1.2	3.3	5.4	8.5	3.2	1.5	.7	1.5	29.5	70.5	586
TOT	9.2	.8	6.1	23.5	37.4	24.0	11.5	6.6	3.1	3.9	138.5	382.8	2266
PCT	2.3	.2	1.5	5.9	10.0	7.2	2.9	1.7	.8	1.0	34.6	85.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
0000Z	.3	.6	2.8	9.9	25.0	60.8	1478
0600Z	.8	.3	7.9	8.8	24.7	62.2	1222
1201Z	.8	.8	3.7	6.7	26.6	59.4	1547
1802Z	.4	.3	3.4	7.9	24.7	63.1	1098
TOT	31	33	172	477	1362	3276	5943
PCT	.6	.6	3.2	8.9	25.3	61.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000Z	3.9	3.9	19.0	18.2	62.7	510
0600Z	3.0	3.9	22.3	21.8	59.9	564
1201Z	1.4	4.3	18.5	29.0	56.5	536
1802Z	1.3	2.9	16.6	19.7	63.7	539
TOT	9.2	10.3	41.9	46.5	130.5	2189
PCT	2.4	4.7	19.1	21.2	59.6	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 FRQG
90/94	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
89/89	.0	.0	.0	.0	.1	.0	.0	.0	3	.1
88/84	.0	.0	.1	.0	.4	.3	.2	.1	23	1.2
75/79	.0	.0	.0	.4	.9	3.1	3.2	.9	259	12.6
70/74	.0	.0	.1	.9	3.8	12.1	25.0	15.3	1212	60.3
65/69	.0	.0	.0	1.1	2.9	4.2	8.6	7.0	479	23.9
60/64	.0	.0	.0	.2	.0	.1	.3	.6	28	1.4
TOTAL	0	2	7	34	167	441	788	343	2002	100.0
PCT	.0	.1	.3	2.7	4.3	22.0	39.4	27.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
89/89	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
88/84	.2	.8	.0	.0	.0	.0	.0	.0	.0	.0
75/79	2.8	3.3	1.4	.6	.9	.7	.1	.4	.0	.2
70/74	3.9	23.1	10.9	4.9	3.4	4.2	2.1	.9	.0	1.1
65/69	.9	4.0	4.9	4.4	3.7	3.3	1.3	.2	.0	.8
60/64	.1	.0	.2	.3	.4	.4	.0	.0	.0	.0
TOTAL	10.0	33.5	17.5	10.1	10.5	8.9	3.7	1.6	.0	2.2

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	85%	LS	MIN	MEAN	TOTAL OBS
0000Z	82	77	75	70	69	63	54	70.2	3004
0600Z	83	76	74	70	69	62	59	69.7	2041
1201Z	88	81	77	72	66	63	60	71.9	3019
1802Z	92	82	79	73	67	64	56	72.7	1720
TOT	92	80	77	71	68	63	54	71.1	9784

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	1.7	5.8	18.3	39.6	34.6	84	518		
0600Z	.0	1.9	4.7	19.3	38.1	40.0	85	513		
1201Z	.0	4.2	16.3	22.6	42.8	19.9	81	523		
1802Z	.0	4.5	19.0	32.2	36.6	14.7	79	484		
TOT	0	63	167	449	802	360	82	2040		

SEPTEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1859-1973

APEA 0009 RIO DE JANEIRO
22.75 41.5W

TABLE 17

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

AIR-SEA TMP DIF	37 30	41 34	45 38	49 42	53 46	57 50	61 54	65 58	69 62	73 66	77 70	81 74	85 78	89 82	TOT	% FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	3	.0	.1
11/13	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	10	.0	.4
9/10	.0	.0	.0	.1	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	18	.0	.8
7/8	.0	.0	.0	.4	.7	.4	.2	.1	.0	.0	.0	.0	.0	.0	40	.0	1.7
6	.0	.0	.0	.3	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	34	.0	1.5
5	.0	.0	.0	.8	1.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	70	.1	3.0
4	.0	.0	.2	1.3	2.2	.8	.0	.0	.0	.0	.0	.0	.0	.0	106	.1	4.6
3	.0	.0	.4	3.1	2.8	.7	.0	.0	.0	.0	.0	.0	.0	.0	157	.1	6.9
2	.0	.0	.8	5.8	2.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	223	.4	9.6
1	.0	.0	1.1	7.8	3.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	327	.2	14.4
0	.0	.0	2.2	9.2	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	368	.2	15.7
-1	.0	.2	2.1	6.7	2.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	266	.3	11.6
-2	.0	.2	2.4	5.3	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	213	.1	9.5
-3	.0	.3	2.2	3.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	141	.1	6.2
-4	.0	.3	1.6	2.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	103	.1	4.6
-5	.0	.3	1.2	1.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	72	.0	3.2
-6	.0	.1	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	.0	1.4
-7/-8	.0	.1	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	.0	1.3
-9/-10	.0	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	.0	.8
-11/-13	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	1	41	369	1097	613	96	13	5	2	2241	2.4	97.6					
PCT	.0	1.0	16.5	49.0	27.4	4.3	.7	.2	.1	100.0	2.4	97.6					

PERIOD (OVER-ALL) 1963-1973

TABLE 18

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

HGT	N						PCT	NE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.2	.2	.0	.0	.0	.0	.4	.1	1.4	.0	.0	.0	.0	.0	1.5
1-3	.1	1.0	.4	.0	.0	.0	1.4	.1	3.0	2.8	.0	.0	.0	.0	3.9
3-4	.0	.8	1.3	.0	.0	.0	2.2	.0	3.3	7.7	.7	.0	.0	.0	12.0
3-6	.0	.1	1.3	.4	.0	.0	1.7	.0	.4	6.2	1.0	.0	.0	.0	7.6
7	.0	.0	.7	.7	.0	.0	1.3	.0	.2	3.2	2.8	.0	.0	.0	6.2
6-9	.1	.0	.2	.3	.2	.0	1.0	.0	.0	1.0	3.4	.2	.0	.0	4.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.2
12	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.1	.0	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.1	.8	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.1	4.0	1.6	.3	.0	6.4	.3	6.6	71.2	8.3	.3	.0	38.7	

HGT	E						PCT	SE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.2	.4	.1	.0	.0	.0	.6	.0	.5	.0	.0	.0	.0	.0	.6
1-3	.3	4.0	1.0	.0	.0	.0	3.3	.7	3.3	.4	.0	.0	.0	.0	4.6
3-4	.0	1.6	3.7	.1	.0	.0	5.8	.0	.9	.9	.0	.0	.0	.0	1.8
3-6	.0	.8	2.3	.4	.0	.0	3.6	.0	.7	.9	.0	.0	.0	.0	1.6
7	.1	.1	.8	.6	.0	.0	1.6	.0	.2	.4	.1	.0	.0	.0	.7
6-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	6.9	6.3	1.2	.0	.0	16.8	.7	3.9	2.6	.1	.0	.0	9.3	

PERIOD: (OVER-ALL) 1963-1973

SEPTEMBER

AREA 0009 RIO DE JANEIRO
22.75 41.5W

TABLE 18 (CONT)

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

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.1	.4	.0	.0	.0	.0	.5	.2	.2	.0	.0	.0	.0	.0	.5	
1-2	.1	2.6	1.4	.0	.0	.0	4.1	.0	2.2	.7	.0	.0	.0	.0	2.9	
3-4	.0	1.3	.8	.0	.0	.0	2.2	.0	1.4	1.9	.1	.0	.0	.0	3.5	
5-6	.0	.1	.8	.0	.0	.0	.9	.0	.1	1.3	.0	.0	.0	.0	1.4	
7	.0	.0	.1	.3	.0	.0	.4	.0	.0	.1	.2	.0	.0	.0	.4	
8-9	.0	.1	.2	.1	.0	.0	.3	.0	.0	.2	.5	.0	.0	.0	.7	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	4.6	3.3	.6	.0	.0	8.7	.2	3.9	4.2	1.2	.1	.0	.0	9.7	

HGT	M							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.1	.4	.0	.0	.0	.0	.5	.0	.1	.0	.0	.0	.0	.0	.1	1.7	
1-2	.1	1.3	.9	.0	.0	.0	2.0	.0	.3	.1	.0	.0	.0	.0	.3	2.3	
3-4	.0	.3	.9	.3	.0	.0	1.7	.0	.0	.1	.0	.0	.0	.0	.1	1.8	
5-6	.0	.1	.1	.2	.0	.0	.4	.0	.0	.1	.0	.0	.0	.0	.1	.5	
7	.0	.0	.2	.3	.0	.0	.8	.0	.2	.2	.0	.0	.0	.0	.4	1.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	.3	
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.3	1.8	1.0	.0	.0	5.3	.0	1.1	.8	.1	.0	.0	.0	1.7	98.8	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	2.3	3.6	.1	.0	.0	.0	.0	6.0
1-2	1.9	17.9	7.2	.0	.0	.0	.0	27.0
3-4	.0	10.7	17.1	1.3	.0	.0	.0	29.2
5-6	.0	2.2	13.1	1.9	.0	.0	.0	17.2
7	.1	.7	9.8	5.4	.0	.0	.0	12.0
8-9	.1	.1	1.9	4.6	.4	.0	.0	7.0
10-11	.0	.1	.1	.3	.1	.0	.0	.6
12	.0	.0	.1	.2	.1	.0	.0	.4
13-16	.0	.0	.2	.4	.1	.0	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.1	.0	.0	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.4	33.2	43.7	14.1	.7	.0	100.0	1033

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
4-6	1.1	8.6	12.6	8.4	3.1	1.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	643	4
6-7	.1	.9	10.7	11.3	3.6	2.3	.4	.4	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	596	3
8-9	.0	.1	1.2	4.1	3.1	2.8	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	272	7
10-11	.0	.1	.3	.9	.7	1.3	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	7
12-13	.0	.0	.1	.1	.4	.3	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	8
313	.0	.0	.0	.1	.6	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	8
INDBT	2.6	1.7	3.3	1.6	1.8	.6	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	221	4
TOTAL	70	212	320	480	317	180	41	20	20	1	1	1	0	0	0	0	0	0	0	0	1843	3
PCT	3.8	11.3	26.2	26.0	17.2	8.7	2.2	1.1	1.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1857-1973

AREA 0009 RIO DE JANEIRO
22.78 41.64

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.3	1.6	1.3	.0	.0	.0	.0	4.2	2.7	1.7	4.8	.4	4.3	.0	82.1
NE	1.3	.8	1.0	.0	.0	.0	.0	2.8	1.3	.9	2.4	.0	4.9	.1	87.8
E	2.6	2.0	3.3	.0	.0	.0	.0	7.5	4.3	.7	1.0	.0	3.0	.1	83.3
SE	4.0	2.6	4.3	.0	.0	.0	.0	10.8	2.7	.7	2.5	.3	1.4	.3	81.6
S	3.7	1.7	2.4	.0	.0	.0	.0	9.3	3.5	.9	2.8	.0	1.8	.0	81.6
SW	3.1	3.1	2.4	.0	.0	.0	.0	8.3	4.2	1.3	6.3	.0	4.9	.0	74.6
W	6.9	2.3	4.1	.0	.0	.0	.0	13.3	4.3	6.2	3.5	.9	3.7	.0	67.0
NW	6.5	1.8	3.4	.0	.0	.0	.0	13.4	2.3	0.1	8.8	.0	.4	.0	69.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	1.7	1.7	.0	.0	.0	.0	3.4	5.2	5.2	19.8	.0	8.6	.0	63.8
TOT PCT	2.9	1.7	2.4	.0	.0	.0	.0	6.8	2.9	1.4	3.3	.1	3.6	.1	82.0
TOT OBS:	2873														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0600	3.0	2.4	2.6	.0	.0	.0	.0	7.9	2.5	2.8	2.5	.3	4.1	.3	80.1
0800	3.7	1.7	2.8	.0	.0	.0	.0	7.6	4.5	2.3	3.7	.0	2.0	.0	80.0
1200	2.8	1.8	2.6	.0	.0	.0	.0	6.9	2.5	.3	3.3	.4	4.8	.0	81.7
1800	2.3	1.5	2.1	.0	.0	.0	.0	5.6	1.9	.0	3.3	.0	3.4	.1	83.3
TOT PCT	3.0	1.8	2.5	.0	.0	.0	.0	7.0	2.9	1.4	3.3	.2	3.6	.1	81.8
TOT OBS:	2844														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.6	3.0	3.8	1.0	.0	.0	8.9	12.9	4.1	4.3	5.5	8.9	9.7	11.5	8.4	12.9
NE	.9	8.8	13.1	3.0	.2	.0	26.0	13.8	23.5	24.5	27.7	20.7	27.1	22.8	27.9	24.8
E	1.2	9.3	8.8	1.0	.1	.0	20.1	11.1	22.8	22.7	19.6	20.1	18.6	17.3	19.1	23.0
SE	1.4	7.5	4.5	.7	.1	.0	14.2	10.3	17.3	15.3	13.6	14.0	12.1	12.7	13.3	11.0
S	1.2	5.9	3.9	.6	.0	.0	11.2	10.2	13.2	10.5	9.8	8.7	11.2	11.1	12.0	10.7
SW	.8	4.5	3.6	.8	.1	.0	9.9	11.4	9.5	8.7	9.9	9.6	10.0	10.6	10.8	9.4
W	.7	2.4	1.1	.3	.0	.0	4.3	9.6	3.4	3.0	3.2	3.7	3.1	3.7	2.6	3.1
NW	.4	1.3	.7	.1	.0	.0	2.5	9.0	1.7	2.8	2.8	2.8	3.0	2.9	2.0	2.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1						3.1	.0	2.9	4.0	3.8	2.4	3.0	3.5	1.8	2.9
TOT OBS	1062	4408	4071	788	53	1	10380	11.2	1847	1383	1334	127	1739	1323	1463	134
TOT PCT	10.2	42.5	39.2	7.6	.5	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40					00	03	06	09	12	15	18	21
N	1.8	3.9	2.5	.2	.0	8.5	12.9	6.2	8.5	10.5	8.8					
NE	4.0	13.4	7.8	.8	.0	26.0	13.8	24.0	27.9	26.0	27.7					
E	4.9	11.3	3.6	.2	.0	20.1	11.1	22.8	19.7	18.0	19.4					
SE	4.3	7.3	2.2	.1	.0	14.2	10.3	17.3	12.7	12.4	13.1					
S	2.8	5.6	1.6	.1	.0	11.2	10.2	13.0	9.6	11.1	11.9					
SW	2.8	4.0	1.9	.3	.0	9.9	11.4	9.2	8.7	10.3	10.6					
W	1.8	2.0	.6	.1	.0	4.3	9.6	4.1	3.2	3.4	2.7					
NW	1.1	1.1	.3	.0	.0	2.5	9.0	2.1	2.8	3.0	2.1					
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	3.1					3.1	.0	3.2	3.8	3.2	1.9					
TOT OBS	2879	5151	2138	206	6	10380	11.2	1847	1383	1334	127	1739	1323	1463	134	134
TOT PCT	21.7	49.6	20.6	2.0	.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1857-1973

OCTOBER

AREA 0009 RIO DE JANEIRO
22.75 41.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	3.2	6.8	42.8	39.2	7.6	.5	.0	11.2	100.0	3232
0600Z	3.8	6.7	42.3	39.7	7.7	.5	.0	11.2	100.0	2083
1200Z	3.2	6.3	41.9	37.9	7.9	.5	.0	11.1	100.0	3284
1800Z	1.9	3.8	43.2	41.9	6.8	.5	.0	11.6	100.0	1801
TOT	322	740	4408	471	783	53	1	11.2		10380
PCT	3.1	7.1	42.9	9.2	7.6	.5	0	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OVER	TOTAL OBS	PCT CLOUD OVER
NE	12.6	4.9	9.9	6.0	4.0	4.0
E	3.6	2.8	3.7	3.5	4.6	4.6
SE	2.3	1.6	4.2	3.0	3.6	3.6
S	1.8	1.2	3.4	3.9	3.7	3.7
SW	1.3	.9	2.4	4.6	3.9	3.9
W	.4	.4	1.0	1.3	3.8	3.8
NW	.3	.3	.7	.7	3.6	3.6
VAR	.0	.0	.0	.0	.0	.0
CALM	.8	.2	.2	.8	4.5	4.5
TOT OBS	371	274	389	422	2056	4.9
TOT PCT	27.8	13.9	28.8	30.3	100.0	

TABLE 6

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

WIND DIR	000	150	300	400	1000	2000	3500	5000	6500	8000+ NM	ANY HGT	TOTAL OBS
N	.3	.0	.1	.6	1.0	.7	.4	.0	.0	.1	4.5	
NE	.4	.1	.2	1.4	3.0	2.4	1.0	.5	.2	.3	22.0	
E	.4	.2	.4	2.1	2.7	1.3	.7	.2	.1	.2	11.3	
SE	.4	.0	.2	1.4	2.6	1.6	.8	.3	.0	.1	3.8	
S	.2	.0	.1	1.2	1.6	1.3	.6	.1	.1	.2	4.9	
SW	.3	.0	.2	1.0	1.8	.7	.8	.4	.0	.1	4.0	
W	.2	.0	.2	.2	.4	.3	.9	.1	.0	.0	1.3	
NW	.1	.0	.1	.3	.1	.1	.1	.2	.0	.0	.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.2	.0	.3	.1	.0	.0	.0	1.2	
TOT OBS	30	8	34	172	270	187	101	37	12	10	1185	2056
TOT PCT	2.4	.4	1.7	8.4	13.1	9.1	4.9	1.8	.6	1.0	56.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0
>DR >5000	1.2	1.3	1.6	1.6	1.7	1.7	1.7	1.7
>DR >5000	1.9	2.7	3.4	3.5	3.6	3.6	3.6	3.6
>DR >3000	4.6	6.7	7.7	7.9	8.1	8.1	8.1	8.1
>DR >2000	10.5	14.8	16.6	16.9	17.1	17.1	17.1	17.1
>DR >1000	18.4	26.4	29.5	29.9	30.2	30.2	30.2	30.2
>DR >600	23.3	34.3	38.0	38.4	38.7	38.7	38.8	38.8
>DR >300	24.2	33.6	39.3	40.1	40.4	40.4	40.5	40.5
>DR >150	24.3	33.8	39.9	40.3	40.8	40.8	40.8	40.8
>DR >0	24.6	36.3	41.4	42.4	42.8	42.9	43.2	43.3
TOTAL	310	738	860	881	888	891	896	898

TOTAL NUMBER OF OBS: 2074

PCT FREQ NM <3/8: 56.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCO	TOTAL OBS
16.6	11.9	11.3	9.3	7.0	6.6	6.6	9.6	19.9	1.8	2271

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1857-1973

OCTOBER

AREA 0009 RIO DE JANEIRO
22.73 41.84

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.2	
	NO PCP	.1	.1	.0	.1	.1	.0	.0	.0	.0	.1	.5	
	TOT S	.1	.1	.1	.1	.1	.0	.1	.0	.0	.1	.7	
1/2<1	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.1	.1	.0	.1	.2	.1	.1	.0	.1	.7	
	TOT S	.0	.1	.1	.0	.1	.2	.2	.1	.0	.1	.9	
1<2	PCP	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.4	
	NO PCP	.1	.3	.1	.0	.0	.2	.0	.0	.0	.0	.9	
	TOT S	.1	.4	.2	.2	.1	.2	.1	.0	.0	.0	1.3	
2<5	PCP	.0	.2	.3	.3	.1	.3	.1	.1	.0	.0	1.3	
	NO PCP	.4	1.3	.8	.8	.6	.8	.9	.1	.0	.1	3.3	
	TOT S	.4	1.7	1.1	1.1	.7	1.0	.9	.2	.0	.1	4.6	
5<10	PCP	.2	.5	.7	.7	.4	.5	.5	.1	.0	.0	3.5	
	NO PCP	2.2	7.3	4.7	3.2	3.3	3.7	1.9	1.0	.0	.0	27.7	
	TOT S	2.4	8.0	5.4	3.9	3.7	4.2	1.8	1.1	.0	.0	31.2	
10+	PCP	.1	.1	.3	.3	.3	.0	.0	.1	.0	.0	1.2	
	NO PCP	4.7	19.7	13.6	7.7	8.0	4.4	1.3	.7	.0	1.0	38.1	
	TOT S	4.8	19.8	12.9	8.0	8.3	4.4	1.3	.8	.0	1.0	39.3	
TOT OBS												2868	
TOT PCT		7.9	30.1	19.8	13.2	10.9	10.1	3.8	2.3	.0	2.0	100.0	

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.1	.1	.0	.1	.1	.0	.1	.0	.0	.0	.1	.5
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.1	.0	.0	.0	.1	.1	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.1	.1	.0	.0	.1	.1	.1	.0	.0	.1	.6
1<2	0-3	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.4	
	4-10	.0	.1	.2	.1	.1	.1	.0	.0	.0	.0	.8	
	11-21	.0	.2	.0	.1	.1	.1	.1	.0	.0	.0	.8	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT S	.1	.4	.3	.3	.3	.3	.1	.1	.0	.0	1.9	
2<5	0-3	.0	.1	.0	.2	.1	.0	.1	.0	.0	.1	.7	
	4-10	.2	.5	.6	.6	.4	.3	.2	.2	.0	.0	3.0	
	11-21	.2	.8	.5	.4	.4	.4	.1	.0	.0	.0	2.9	
	22+	.1	.2	.1	.1	.0	.1	.0	.0	.0	.0	.6	
	TOT S	.5	1.6	1.2	1.4	.9	.9	.4	.3	.0	.1	7.2	
5<10	0-3	.1	.2	.3	.2	.2	.3	.2	.1	.0	.0	2.3	
	4-10	1.0	2.3	2.6	1.9	1.6	1.5	.9	.4	.0	.0	12.4	
	11-21	1.1	3.3	2.2	1.3	1.3	1.0	.3	.4	.0	.0	11.1	
	22+	.2	1.2	.4	.2	.2	.3	.1	.1	.0	.0	2.8	
	TOT S	2.4	7.4	5.5	3.7	3.4	3.0	1.4	.9	.0	.0	28.2	
10+	0-3	.3	.4	.7	.6	.4	.3	.1	.1	.0	1.4	4.4	
	4-10	1.7	3.4	6.3	4.9	3.3	2.4	1.1	.6	.0	.0	26.7	
	11-21	2.3	10.3	6.8	2.5	2.5	1.7	.8	.2	.0	.0	26.9	
	22+	.3	2.0	.4	.2	.1	.2	.1	.0	.0	.0	3.8	
	TOT S	4.6	19.0	14.2	8.3	6.3	4.6	1.9	1.0	.0	1.4	61.3	
TOT OBS												3273	
TOT PCT		7.8	28.6	21.3	13.7	11.0	8.9	4.0	2.2	.0	2.4	100.0	

OCTOBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1957-1973

AREA 0009 RIO DE JANEIRO
22.75 41.6M

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <3/8 BY HOUR

HR (GMT)	000	150	300	600	1000	2000	3000	5000	6500	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
0000	3.4	.4	1.3	9.9	11.8	8.0	4.6	1.0	.8	.8	42.0	58.0	524
0600	3.4	.8	1.9	8.7	15.8	7.3	4.3	1.3	.6	1.1	45.4	54.6	531
1200	1.3	.0	1.3	8.9	13.8	10.2	5.1	2.4	.5	1.1	44.8	55.2	549
1800	1.2	.4	1.8	3.8	9.6	9.1	4.6	2.3	.7	.9	36.4	63.6	571
TOT	9.1	1.6	6.3	37.3	51.5	34.6	16.6	5.0	2.6	3.9	170.5	181.5	1725
PCT	2.3	.4	1.6	9.5	12.7	8.7	4.2	1.3	.7	1.0	42.1	57.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	.7	.6	1.8	7.8	28.5	60.7	1983
0600	.7	.9	2.0	6.1	30.1	59.1	1174
1200	.5	.7	1.8	6.5	27.8	62.8	1923
1800	.4	.7	2.2	6.7	27.2	62.9	1069
TOT	3.0	3.7	10.2	37.6	151.8	327.2	3340
PCT	.6	.7	1.9	7.3	28.4	61.2	100.0

TABLE 12

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

HR (GMT)	<150 <900	<600 <1	<1000 <5	1000+ AND 5+	NH <3/8 AND 3+	TOTAL OBS
0000	3.5	3.3	21.2	23.5	53.2	509
0600	3.5	7.3	22.3	23.7	51.0	510
1200	1.3	2.9	18.0	29.9	52.1	522
1800	1.3	3.9	13.7	24.5	59.6	525
TOT	3.0	10.2	60.5	54.8	112.3	2076
PCT	2.4	4.9	19.5	26.4	54.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.1	.0	.0	.0	4	.2
85/89	.0	.0	.0	.0	.0	.0	.0	.0	3	.1
80/84	.0	.0	.0	.0	.4	1.1	.7	.1	30	2.3
75/79	.0	.0	.0	.7	.6	4.3	8.5	3.0	388	19.2
70/74	.0	.0	.0	.8	4.0	7.9	22.1	22.7	1159	57.6
65/69	.0	.0	.0	.1	1.9	3.2	7.4	7.2	398	19.8
60/64	.0	.0	.0	.0	.0	.0	.0	.3	13	.6
TOTAL	0	0	3	36	141	337	781	715	2013	100.0
PCT	.0	.0	.1	1.8	7.0	16.7	38.8	35.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85/89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
80/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
75/79	.0	.0	.0	.7	.6	4.3	8.5	3.0	388	19.2
70/74	.0	.0	.0	.8	4.0	7.9	22.1	22.7	1159	57.6
65/69	.0	.0	.0	.1	1.9	3.2	7.4	7.2	398	19.8
60/64	.0	.0	.0	.0	.0	.0	.0	.3	13	.6
TOTAL	0	0	3	36	141	337	781	715	2013	100.0
PCT	.0	.0	.1	1.8	7.0	16.7	38.8	35.3		

TABLE 15

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

HR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	90	78	74	71	66	64	59	71.0	3222
0600	84	77	73	70	65	63	58	70.3	2078
1200	93	82	79	75	67	64	61	72.9	3173
1800	94	83	80	74	68	64	59	73.8	1740
TOT	94	81	78	72	66	64	55	71.9	10213

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.7	6.4	13.3	24.3	44.3	86	364		
0600	.0	.0	4.7	12.4	33.4	44.3	87	483		
1200	.0	2.4	6.9	17.4	41.3	31.9	84	352		
1800	.0	4.8	10.0	23.8	40.1	21.3	81	461		
TOT	0	39	143	341	793	744	84	2062		

OCTOBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1857-1973

AREA 0009 RIO DE JANEIRO
22.75 41.6W

TABLE 17

PCT PRG OP AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH/OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
17/19	.0	.0	.0	.1	.0	.0	.0	.0	.0	2	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
11/13	.0	.0	.0	.0	.0	.2	.2	.0	.0	12	.0	.5
9/10	.0	.0	.0	.1	.1	.2	.1	.0	.0	14	.0	.6
7/8	.0	.0	.0	.3	.6	.6	.3	.0	.0	39	.0	1.7
6	.0	.0	.0	.2	.8	.8	.3	.0	.0	48	.0	2.1
5	.0	.0	.0	.5	1.8	1.2	.2	.0	.0	88	.2	3.6
4	.0	.0	.1	1.4	2.0	1.9	.2	.0	.0	122	.1	5.1
3	.0	.0	.3	2.1	3.1	1.2	.1	.0	.0	155	.7	6.5
2	.0	.0	.4	3.9	3.9	.6	.0	.0	.0	259	.3	10.7
1	.0	.0	.9	4.9	6.1	.8	.0	.0	.0	294	.4	12.2
0	.0	.1	1.5	7.3	6.3	.5	.0	.0	.0	368	.6	13.3
-1	.0	.0	1.6	5.6	3.8	.9	.0	.0	.0	266	.7	11.1
-2	.0	.1	2.0	3.3	2.3	.1	.0	.0	.0	233	.7	9.7
-3	.0	.1	1.4	4.3	.9	.0	.0	.0	.0	154	.2	6.3
-4	.0	.1	1.6	2.6	.5	.0	.0	.0	.0	114	.1	4.8
-5	.0	.1	1.2	1.3	.3	.0	.0	.0	.0	71	.1	3.0
-6	.0	.1	.7	.9	.1	.0	.0	.0	.0	46	.0	2.0
-7/-8	.0	.1	.4	.4	.1	.0	.0	.0	.0	24	.0	1.0
-9/-10	.0	.0	.3	.1	.0	.0	.0	.0	.0	9	.0	.4
-11/-13	.0	.1	.0	.0	.0	.0	.0	.0	.0	5	.0	.2
-14/-16	.0	.0	.1	.0	.0	.0	.0	.0	.0	3	.0	.1
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	2	23	293	968	812	186	1	1	1	2323	69	2260
PCT	.1	1.1	12.7	41.6	34.9	9.0	1.3	.0	.0	100.0	2.9	97.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT PRG OP WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MSY	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.0	.3	.1	.0	.0	.0	.4	.1	1.0	.0	.0	.0	.0	1.1
1-2	.0	1.2	.0	.0	.0	.0	2.0	.2	3.6	2.4	.0	.0	.0	6.2
3-4	.0	1.5	1.3	.1	.0	.0	2.1	.1	2.1	6.7	.8	.0	.0	9.7
5-6	.0	.2	1.2	.2	.0	.0	1.7	.1	.4	5.4	1.2	.0	.0	7.0
7	.0	.0	.4	.3	.1	.0	1.0	.0	.3	2.4	1.3	.1	.0	4.3
8-9	.0	.0	.1	.2	.0	.0	.2	.0	.1	1.1	1.2	.1	.0	2.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	4.0	1.1	.1	.0	7.4	.3	7.4	18.1	3.2	.2	.0	31.7

MSY	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.1	.9	.0	.0	.0	.0	1.0	.7	.3	.1	.0	.0	.0	1.1
1-2	.7	3.7	1.3	.0	.0	.0	7.8	.6	3.1	.6	.0	.0	.0	4.3
3-4	.0	1.9	3.2	.2	.0	.0	7.3	.1	2.5	1.2	.2	.0	.0	4.0
5-6	.0	.7	3.7	.3	.0	.0	4.7	.0	.7	1.3	.0	.0	.0	2.0
7	.0	.0	1.2	.3	.0	.0	1.3	.0	.2	.4	.2	.0	.0	.8
8-9	.0	.0	.6	.1	.0	.0	.7	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.1	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	9.3	12.0	.9	.0	.0	23.1	1.4	6.8	1.9	.4	.0	.0	12.3

PERIOD: (OVER-ALL) 1969-1973

OCTOBER

ARFA 0009 RIO DE JANEIRO
22.73 41.6W

TABLE 18 (CONT)

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

HGT	S						PCT	SW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.4	.0	.0	.0	.0	.6	.0	.4	.0	.0	.0	.0	.0	.4
1-2	.3	1.3	1.0	.0	.0	.0	2.6	.0	2.7	1.0	.0	.0	.0	.0	3.7
3-4	.0	1.3	2.0	.0	.0	.0	3.3	.0	1.1	1.6	.0	.0	.0	.0	2.7
5-6	.0	.3	1.4	.1	.0	.0	2.0	.0	.2	1.0	.5	.0	.0	.0	1.6
7	.0	.0	.3	.0	.0	.0	.3	.0	.1	.4	.3	.0	.0	.0	.8
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.6	4.7	.2	.0	.0	8.9	.0	4.3	4.1	.8	.0	.0	9.4	

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.2	.0	.0	.0	.0	.5	.0	.3	.0	.0	.0	.0	.0	.3
1-2	.0	1.1	.2	.0	.0	.0	1.3	.0	.2	.2	.0	.0	.0	.0	.4
3-4	.0	.2	.3	.2	.0	.0	.8	.0	.1	.4	.1	.0	.0	.0	.8
5-6	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.3
7	.0	.0	.0	.1	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.3	.7	.4	.0	.0	2.9	.0	.9	.9	.2	.0	.0	2.0	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-20	22-33	34-47	48+	PCT	TOT OBS
<1	3.7	3.9	.2	.0	.0	.0	7.8	993
1-2	2.3	18.9	7.4	.0	.0	.0	28.6	
3-4	.2	9.7	18.7	1.6	.0	.0	30.3	
5-6	.2	2.6	14.0	2.4	.0	.0	19.2	
7	.0	.6	3.1	2.9	.2	.0	6.8	
8-9	.0	.1	2.1	1.3	.1	.0	3.8	
10-11	.0	.1	.3	.4	.0	.0	.8	
12	.0	.1	.1	.1	.0	.0	.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	6.4	36.1	47.9	9.2	.3	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	2.2	12.1	13.3	6.1	2.4	.9	.3	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	71.6	3
6-7	.1	1.8	9.6	12.1	3.4	2.6	1.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	62.0	3
8-9	.0	.3	1.9	3.0	4.4	2.3	.7	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	249	6
10-11	.0	.2	.6	1.1	.9	1.0	.4	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	87	7
12-13	.0	.0	.4	.1	.2	.1	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	7
>13	.0	.0	.0	.2	.2	.1	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	9
INDBT	2.1	1.3	2.1	1.1	1.3	.6	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	174	4
TOTAL	82	298	526	446	283	142	89	31	13	3	0	0	0	0	0	0	0	0	0	0	1882	5
PCT	4.4	15.7	27.9	23.7	15.0	7.5	3.1	1.6	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1895-1973

AREA 0009 RIO DE JANEIRO
22.75 41.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	DRZL	FRZG	SNOW	OTHER	MAIL	PCPN AT	PCPN PAST	THDR	FOG	FOG WD	SMOKE	SPRAY	ND
	SHW.	PCPN	PCPN	PCPN	FRZM		OB TIME	HOURL	LTNG	WD	PCPN	HAZE	BLWG	SIG
					PCPN					PAST HR		BLWG	SNOW	WEA
N	2.4	.0	1.1	.0	.0	.0	3.1	7.2	1.3	2.7	.0	2.8	.0	84.8
NE	3.9	.6	2.6	.0	.0	.0	7.1	2.1	1.3	1.3	.0	3.3	.0	84.7
E	4.1	1.0	1.9	.0	.0	.0	7.8	2.0	.9	1.9	.0	2.1	.0	85.4
SE	6.6	.9	2.4	.0	.0	.0	9.7	3.3	.7	1.6	.0	1.6	.0	83.4
S	4.3	1.7	2.8	.0	.0	.0	6.2	4.9	.9	.7	.2	.9	.2	84.4
SW	5.0	2.7	3.2	.0	.0	.0	10.8	3.1	2.1	1.0	.3	2.9	.1	79.3
W	7.7	3.1	4.6	.0	.0	.0	13.3	1.8	4.1	6.9	1.0	4.1	.0	66.8
NW	6.3	1.6	.4	.0	.0	.0	6.3	11.1	3.3	3.1	.0	2.0	.0	68.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6	.0	1.6	.0	.0	.0	1.6	3.2	1.6	7.9	.0	4.8	.0	81.0
TOT PCT	4.6	1.3	2.4	.0	.0	.0	8.0	3.2	1.4	1.9	.1	2.3	.0	83.0
TOT OBS	2697													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	DRZL	FRZG	SNOW	OTHER	MAIL	PCPN AT	PCPN PAST	THDR	FOG	FOG WD	SMOKE	SPRAY	ND
	SHWR	PCPN	PCPN	PCPN	FRZM		OB TIME	HOURL	LTNG	WD	PCPN	HAZE	BLWG	SIG
					PCPN					PAST HR		BLWG	SNOW	WEA
0800Z	5.8	1.4	2.2	.0	.0	.0	9.2	3.3	2.9	1.4	.1	2.3	.0	81.0
0800C	4.6	1.1	2.9	.0	.0	.0	6.3	4.2	2.9	2.7	.0	2.4	.0	79.7
1201Z	4.3	1.1	2.1	.0	.0	.0	7.1	2.2	.0	1.8	.3	2.1	.1	86.4
1802Z	1.1	1.3	2.4	.0	.0	.0	7.9	2.9	.3	1.3	.0	2.9	.0	84.3
TOT PCT	4.7	1.3	2.4	.0	.0	.0	8.1	3.1	1.3	1.9	.1	2.4	.0	83.0
TOT OBS	2734													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL	PCT	MEAN	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	48+	OBS				FRG	SPD	00	03	06	09	12	15	18	21
N	.8	3.0	4.4	1.2	.1	.0	9.2	13.4	4.6	7.8	9.1	13.0	10.7	12.1	8.4	9.2
NE	1.0	9.3	12.7	2.9	.1	.0	26.0	13.1	23.8	24.3	26.3	28.1	28.6	23.8	26.8	29.0
E	1.2	10.0	7.1	.9	.1	.0	19.3	10.8	21.3	22.8	20.4	13.0	17.3	13.7	19.1	13.1
SE	1.4	8.4	4.9	.6	.0	.0	13.3	9.8	19.0	14.7	12.9	14.4	11.8	14.4	13.1	16.3
S	1.4	3.8	3.7	.8	.0	.0	11.7	10.3	13.2	10.1	9.6	11.9	10.2	12.6	14.3	17.3
SW	.8	4.3	2.8	.9	.1	.0	8.8	11.1	8.1	8.0	8.0	7.3	10.0	9.4	9.7	6.9
W	.6	2.1	.9	.1	.0	.0	3.7	9.1	3.0	3.7	4.3	3.3	4.7	3.9	2.3	6.7
NW	.3	1.3	.7	.1	.0	.0	2.3	9.9	1.6	2.9	2.8	3.8	2.6	2.9	1.7	2.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3	.0	.0	.0	.0	.0	3.3	.0	3.4	3.6	3.3	.8	4.0	3.2	1.8	.8
TOT OBS	1080	4444	3736	791	58	3	10649	11.0	1777	1320	1901	120	1494	1241	1388	130
TOT PCT	10.7	44.1	37.1	7.3	.5	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL	PCT	MEAN	HOUR (GMT)						
	0-6	7-16	17-27	28-40				OBS	FRG	SPD	00	03	06	09	12	15	18	21
N	1.8	4.3	2.7	.4	9.2	13.4	7.1	9.4	11.4	8.4				
NE	4.4	13.4	7.4	.7	26.0	13.1	24.0	23.3	27.3	26.7				
E	3.1	11.0	2.8	.2	19.3	10.8	22.0	20.0	16.6	12.7				
SE	3.0	8.1	1.9	.1	13.3	9.8	18.0	14.0	13.0	16.2				
S	4.0	3.6	1.8	.2	11.7	10.3	11.9	9.8	11.3	14.6				
SW	2.8	4.2	1.4	.3	8.8	11.1	8.1	8.0	9.7	9.3				
W	1.7	1.6	.3	.1	3.7	9.1	3.3	4.3	4.3	2.7				
NW	.3	1.1	.4	.1	2.3	9.9	2.2	2.9	2.8	1.7				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	3.3	.0	.0	.0	3.3	.0	3.5	3.0	3.6	1.3				
TOT OBS	2937	3002	1894	218	16	10069	1097	2021	3233	1714				
TOT PCT	29.2	49.7	18.8	2.2	.2	100.0	100.0	100.0	100.0	100.0				

NOVEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1955-1973

AREA 0009 RIO DE JANEIRO
22.73 41.4M

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND SPEED (KNOTS)	WIND SPEED (KNOTS)							48+ MEAN	PCT FREQ	TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+				
0003	3.3	6.8	45.7	36.0	7.6	.6	0	11.0	100.0	3097
0609	5.0	8.0	44.1	33.8	6.5	.6	0	10.6	100.0	2021
1215	3.6	7.9	44.5	33.3	8.0	.3	0	10.9	100.0	3235
1821	1.3	6.5	40.7	43.3	7.3	.3	.1	11.6	100.0	1718
TOT	332	728	4444	3736	731	53	3	11.0		10069
PCT	3.3	7.2	44.1	37.1	7.5	.5	0		100.0	

TABLE 5

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

WIND DIR	WIND DIRECTION				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSD		
N	2.4	1.1	2.1	2.9	4.9	4.9
NE	7.7	4.6	6.9	3.8	4.4	4.4
E	3.2	3.0	7.0	3.7	3.0	3.0
SE	3.0	2.0	3.4	3.0	3.4	3.4
S	2.3	2.2	3.8	4.1	3.2	3.2
SW	1.5	1.8	3.7	2.9	3.3	3.3
W	.7	.6	.8	1.4	3.4	3.4
NW	.2	.1	.7	1.0	0.4	0.4
VAR	.0	.0	.0	.0	.0	.0
CALC	.9	.3	.6	.6	4.2	4.2
TOT OBS	466	322	393	364	1943	3.0
TOT PCT	24.0	16.6	30.2	29.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT./M) >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WIND DIR	CEILING HEIGHTS (FT./M) >4/8)										NM <5/8 ANY HGT	TOTAL OBS
	000	100	300	600	1000	2000	3500	5000	6500	8000+		
	149	299	599	999	1999	3499	4999	6499	7999			
N	.1	.0	.1	.7	.8	.5	.4	.1	.2	.1	.1	3.4
NE	0	.1	.3	1.8	1.9	1.7	.8	.3	.2	.6	.6	16.9
E	.2	.0	.2	1.7	2.3	2.5	1.0	.3	.1	.3	.3	12.1
SE	.2	.0	.2	1.6	2.4	1.5	1.0	.2	.2	.0	.0	9.0
S	.1	.0	.4	1.5	2.3	1.0	.4	.1	.1	.1	.1	6.4
SW	.1	.0	.1	1.0	1.8	.8	.5	.1	.0	.1	.1	4.9
W	.1	.1	.2	.3	.7	.3	.9	.0	.0	.1	.1	1.7
NW	.1	.0	.1	.3	.3	.3	.2	.0	.0	.0	.0	.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALC	.1	.0	.0	.2	.3	.1	.1	.1	.1	.1	.1	1.4
TOT OBS	19	4	30	177	261	168	89	21	16	21	1139	1943
TOT PCT	1.0	.2	1.5	9.1	13.4	8.6	4.4	1.1	.8	1.1	36.6	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>3	>2	>1	>1/2	>1/4	>500	>0
>OR >500	1.4	1.8	1.9	1.9	1.9	1.9	1.9	1.9
>OR >5000	2.1	2.9	2.9	3.0	3.0	3.0	3.0	3.0
>OR >3500	4.3	6.4	7.1	7.3	7.6	7.6	7.6	7.6
>OR >2000	10.4	14.6	15.7	16.2	16.3	16.3	16.3	16.3
>OR >1000	19.2	27.0	29.2	29.7	29.8	29.9	29.9	29.9
>OR >400	24.7	33.3	36.0	36.7	36.8	36.9	36.9	36.9
>OR >100	28.2	36.3	39.3	40.3	40.4	40.5	40.6	40.6
>OR >10	28.3	36.4	39.7	40.3	40.6	40.7	40.8	40.8
>OR >0	28.3	37.0	40.6	41.4	41.6	41.7	41.9	41.9
TOTAL	303	733	803	820	823	826	830	830

TOTAL NUMBER OF OBS: 1982

PCT FREQ NM <5/8: 36.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)									TOTAL OBS	
0	1	2	3	4	5	6	7	8 OBSD		
12.5	13.0	13.3	11.0	7.4	6.3	7.6	7.3	20.4	.9	2126

NOVEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1853-1973

AREA 0009 RIO DE JANEIRO
22.7S 41.4W

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	.1	*	.1	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.1	.2
	TOT %	.0	.0	.0	*	.1	*	.1	.0	.0	.1	.3	
1/2<1	PCP	.0	*	*	.1	*	.1	.0	.0	.0	.0	.3	
	NO PCP	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.2	.7
	TOT %	.1	.1	.1	.1	.0	.1	.0	.0	.0	*	.5	.9
1<2	PCP	.0	*	*	.1	*	*	*	*	.0	.0	.4	
	NO PCP	.1	.2	.1	.1	.0	.0	.1	*	.0	.1	.7	.7
	TOT %	.1	.3	.2	.2	*	*	.1	.1	.0	.1	1.1	1.1
2<5	PCP	*	.3	.3	.3	.2	.2	.2	*	.0	*	1.3	
	NO PCP	.3	.3	.6	.8	.3	.5	.4	.3	.0	.2	4.4	4.4
	TOT %	.3	1.2	.9	1.1	.5	.6	.6	.3	.0	.2	5.9	5.9
5<10	PCP	.1	.3	.3	.5	.4	.3	.2	.1	.0	.0	3.7	
	NO PCP	2.1	3.3	4.3	2.6	2.6	2.0	1.1	.7	.0	.3	21.1	21.1
	TOT %	2.2	4.3	5.3	3.1	3.1	2.3	1.3	.8	.0	.3	24.7	24.7
10+	PCP	.1	.3	.3	.4	.3	.3	*	*	.0	.0	2.0	
	NO PCP	8.3	17.4	13.2	10.4	8.9	5.7	1.3	1.2	.0	1.7	69.9	69.9
	TOT %	8.4	17.9	13.5	10.9	9.2	5.9	1.6	1.2	.0	1.7	71.9	71.9
TOT OBS												2653	
TOT PCT												8.4 28.7 20.0 13.4 12.9 9.2 3.7 2.4 .0 2.4 100.0	

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	*	.0	*	.0	.0	.0	.1	.2	
	4-10	*	*	*	.0	*	*	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	TOT %	*	*	*	*	*	.1	.1	.0	.0	.1	.4	
1/2<1	0-3	.0	*	*	.0	*	.0	.0	*	.0	*	.1	
	4-10	*	*	.0	.0	.0	*	*	.0	.0	.0	.1	
	11-21	.0	*	*	*	*	*	*	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.1	*	*	*	*	*	*	.0	*	.3	
1<2	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	*	.1	.1	.1	.0	*	*	*	.0	.0	.4	
	11-21	*	.1	.1	*	*	*	*	*	.0	.0	.4	
	22+	.0	.1	*	*	.1	*	*	*	.0	.0	.2	
	TOT %	*	.3	.2	.2	.1	.1	.1	*	.0	.1	1.1	
2<5	0-3	*	*	*	.1	*	*	.1	*	.0	.2	.3	
	4-10	.1	.3	.3	.3	.4	.2	.2	.1	.0	.0	2.2	
	11-21	.3	.7	.2	.4	.2	.2	.1	.1	.0	.0	2.2	
	22+	.1	.2	.1	.1	.1	.1	*	.0	.0	.0	.6	
	TOT %	.3	1.2	.8	.9	.7	.6	.3	.2	.0	.2	5.3	
5<10	0-3	.2	.3	.2	.1	.3	.3	.1	.1	.0	.6	2.2	
	4-10	.7	2.0	2.3	1.4	1.1	.9	.6	.3	.0	.0	9.7	
	11-21	.9	2.7	1.7	1.1	.9	.8	.3	.1	.0	.0	8.6	
	22+	.3	.6	.2	.1	.2	.1	.1	*	.0	.0	1.6	
	TOT %	2.1	5.6	4.5	2.8	2.6	2.1	1.0	.7	.0	.6	22.0	
10+	0-3	.2	.8	.7	1.0	.6	.4	.3	.2	.0	1.7	5.8	
	4-10	2.1	6.3	8.0	6.7	4.6	3.0	1.2	.8	.0	.0	32.6	
	11-21	3.1	10.6	8.2	3.3	2.7	2.0	.7	.2	.0	.0	28.8	
	22+	.3	1.3	.6	.2	.2	.4	.1	*	.0	.0	3.3	
	TOT %	5.9	19.2	13.5	11.2	8.1	5.8	2.2	1.3	.0	1.7	70.7	
TOT OBS												3036	
TOT PCT												8.6 28.4 21.1 13.1 11.3 8.7 3.9 2.2 .0 2.6 100.0	

NOVEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1893-1973

AREA 0009 RIO DE JANEIRO
22.78 41.4W

TABLE 10

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

HRUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000Z	1.7	.4	2.1	8.9	16.4	8.7	3.7	.6	1.0	.4	49.9	36.1	317
0600Z	1.6	.4	1.0	10.2	13.3	8.4	6.3	.8	.6	.8	49.3	36.3	490
1201Z	.6	.0	1.6	8.7	13.2	9.3	4.3	1.0	1.2	1.2	41.3	38.7	306
1802Z	.2	.0	1.7	7.4	9.6	7.9	3.9	1.8	.4	1.7	34.4	63.6	343
TOT	21	4	39	180	269	176	94	22	16	21	836	1220	2056
PCT	1.0	.2	1.6	8.8	13.1	8.6	4.6	1.1	.8	1.0	40.7	59.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (MH) BY HOUR

HRUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000Z	.3	.4	.9	6.1	22.3	69.8	1503
0600Z	.7	.7	1.8	3.9	22.7	68.3	1141
1201Z	.4	.3	1.2	3.1	22.1	70.8	1484
1802Z	.1	.2	1.6	6.1	19.9	72.1	1016
TOT	20	21	67	298	1121	3890	3114
PCT	.4	.4	1.3	5.8	21.9	70.2	100.0

TABLE 12

CUMULATIVE PCT PRG OF RANGES OF VSBY (MH) AND/OR CEILING HGT (FEET/MH >4/8) BY HOUR

HRUR (GMT)	<150 <50YB	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 3+	TOTAL OBS
0000Z	1.8	4.6	19.8	28.7	31.3	493
0600Z	1.7	3.6	20.2	27.6	32.2	471
1201Z	.6	2.9	16.3	29.4	34.3	486
1802Z	.8	2.1	17.0	22.6	60.4	330
TOT	21	68	362	533	1083	1982
PCT	1.1	3.3	16.3	27.0	54.7	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 PRG
89/89	.0	.0	.0	.2	.3	.1	.2	.0	12	.6
80/84	.0	.0	.0	.2	.3	2.0	1.0	.3	78	4.0
79/79	.0	.0	.1	.4	3.3	9.3	13.0	8.3	707	36.0
78/74	.0	.0	.0	.6	3.9	10.3	19.2	19.2	1028	32.2
69/69	.0	.0	.0	.3	.8	1.1	2.0	2.8	140	7.1
60/64	.0	.0	.0	.7	.8	.0	.1	.1	3	.2
TOTAL	0	0	1	34	189	492	736	389	1968	100.0
PCT	.0	.0	.1	1.7	7.8	23.0	37.5	30.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
89/89	.1	.1	.3	.0	.0	.0	.0	.0	.0	.1
80/84	1.0	1.3	.6	.3	.4	.1	.1	.0	.0	.1
79/79	4.4	14.0	3.9	3.9	3.2	2.4	.7	.9	.0	.6
78/74	3.0	11.1	11.8	9.3	7.8	3.0	1.6	1.0	.0	1.4
69/69	.0	.6	.9	1.6	1.8	1.4	.4	.2	.0	.3
60/64	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0
TOTAL	8.9	27.1	19.8	13.0	13.4	9.0	2.8	2.2	.0	2.8

TABLE 15

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

HRUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	83	80	78	73	68	65	39	72.9	3069
0600Z	86	79	77	72	67	64	39	72.2	2019
1201Z	92	83	81	78	69	66	61	74.7	3108
1802Z	90	89	82	79	70	66	61	73.3	1641
TOT	92	83	80	73	68	66	39	73.8	9834

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	1.6	7.4	16.3	33.6	39.0	88	88	391	
0600Z	.0	.8	9.7	16.6	33.9	41.0	86	476		
1201Z	.0	2.3	7.3	26.8	39.4	24.1	82	323		
1802Z	.0	2.2	10.0	32.3	38.8	16.8	60	439		
TOT	0	35	133	438	731	612	83	2009		

NOVEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1853-1973

AREA 0009 RIO DE JANEIRO
22.75 -1.4M

TABLE 17

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

AIR-SEA TMP DIP	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.0
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.1	3	.0	.1
11/13	.0	.0	.0	.0	.1	.1	.2	.1	.0	14	.0	.0
9/10	.0	.0	.0	.0	.2	.2	.4	.0	.0	18	.0	.0
7/8	.0	.0	.0	.1	.4	.5	.7	.2	.0	43	.1	1.3
6	.0	.0	.0	.0	.2	1.0	.3	.0	.0	24	.0	1.3
5	.0	.0	.0	.0	.4	.6	.4	.0	.0	72	.0	3.1
4	.0	.0	.1	.3	1.9	1.2	.5	.0	.0	94	.0	4.1
3	.0	.0	.1	1.1	3.0	2.0	.1	.0	.0	142	.1	6.2
2	.0	.0	.2	1.9	3.9	2.4	.0	.0	.0	236	.2	10.2
1	.0	.1	.1	2.7	3.7	1.9	.1	.0	.0	307	.2	13.4
0	.0	.0	.3	3.3	10.9	1.2	.0	.0	.0	403	.2	17.8
-1	.0	.0	.0	3.9	7.0	1.1	.0	.0	.0	283	.2	12.3
-2	.0	.0	.0	3.9	4.1	.7	.0	.0	.0	228	.1	10.0
-3	.0	.0	.0	3.3	2.8	.1	.0	.0	.0	158	.0	7.0
-4	.0	.0	.0	1.8	1.4	.1	.0	.0	.0	97	.0	4.3
-5	.0	.0	.0	1.2	.7	.1	.0	.0	.0	60	.0	2.7
-6	.0	.0	.0	.3	.7	.2	.0	.0	.0	28	.0	1.2
-7/-8	.0	.1	.3	.4	.1	.0	.0	.0	.0	23	.0	1.1
-9/-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	3	.0	.2
-11/-12	.0	.1	.0	.0	.0	.0	.0	.0	.0	4	.0	.2
-13/-14	.1	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	8	11	128	628	1069	326	61	9	4	2238	31	2227
PCT	.1	.5	5.7	27.8	48.2	14.4	2.7	.4	.2	100.0	1.4	98.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

HEG	N						PCT	NE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
1-3	.1	.4	.0	.0	.0	.0	.5	.2	.3	.0	.0	.0	.0	.0	.3
4-10	.2	1.8	.8	.0	.0	.0	3.0	.2	2.8	3.3	.0	.0	.0	.0	6.6
11-21	.0	.9	2.3	.3	.0	.0	3.2	.0	1.8	6.4	.3	.0	.0	.0	9.0
22-33	.0	.0	1.4	.2	.0	.0	1.6	.0	.3	3.4	1.0	.0	.0	.0	4.7
34-47	.0	.0	.2	.2	.0	.0	.4	.0	.1	1.1	.7	.0	.0	.0	2.0
48+	.0	.0	.6	.2	.0	.0	.8	.0	.0	.1	.1	.0	.0	.0	.4
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.2	5.8	.8	.0	.0	10.2	.4	5.3	19.2	2.2	.0	.0	.0	23.3

HEG	E						PCT	SE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
1-3	.0	.0	.0	.0	.0	.0	.0	.4	.3	.0	.0	.0	.0	.0	.8
4-10	.7	3.3	1.7	.0	.0	.0	7.8	.4	3.1	2.1	.0	.0	.0	.0	9.6
11-21	.1	2.3	3.7	.1	.0	.0	6.4	.1	2.4	2.7	.1	.0	.0	.0	5.3
22-33	.0	.3	1.8	.2	.0	.0	2.3	.0	.2	1.4	.3	.0	.0	.0	2.2
34-47	.0	.4	1.0	.3	.0	.0	1.6	.0	.0	.3	.0	.0	.0	.0	.8
48+	.0	.0	.2	.3	.0	.0	.5	.0	.0	.4	.0	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	9.2	8.4	.3	.0	.0	19.2	.8	6.2	7.4	.8	.0	.0	.0	19.2

PERIOD: (OVER-ALL) 1963-1973

NOVEMBER

AREA 0009 RIO DE JANEIRO
22.75 41.4W

TABLE 18 (CONT)

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.3	.0	.0	.0	.0	.6	.1	.2	.0	.0	.0	.0	.3
1-2	.3	4.0	.8	.0	.0	.0	5.1	.3	1.9	.8	.0	.0	.0	2.7
3-4	.1	1.9	1.7	.0	.0	.0	3.9	.1	1.1	1.4	.1	.0	.0	2.8
5-6	.0	.2	2.1	.8	.0	.0	2.9	.0	.2	.7	.4	.0	.0	1.5
7	.0	.0	.4	.1	.0	.0	.3	.0	.1	.8	.0	.0	.0	1.3
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.1	.1	.3	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.3
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	.7	6.4	5.2	.7	.0	.0	13.0	.5	3.7	3.5	1.8	.0	.0	9.6

HGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.1	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	.6	.0	.0	.0	1.6	.0	1.0	.4	.0	.0	.0	1.4
3-4	.0	1.1	.6	.0	.0	.0	1.7	.0	.1	.8	.0	.0	.0	.9
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.3	.1	.1	.0	.5	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.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	2.2	1.7	.4	.1	.0	4.5	.0	1.1	1.7	.0	.0	.0	2.8 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	3.6	2.5	.0	.0	.0	.0	6.1	
1-2	3.0	21.2	10.4	.0	.0	.0	34.8	
3-4	.4	11.7	20.1	.8	.0	.0	32.9	
5-6	.0	1.3	11.7	2.9	.0	.0	15.8	
7	.0	.6	4.1	2.4	.1	.0	7.2	
8-9	.0	.1	1.7	1.0	.0	.0	2.8	
10-11	.0	.0	.3	.4	.0	.0	.7	
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	7.0	37.3	48.3	7.3	.1	.0	100.0	1002

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.7	12.6	15.7	6.6	2.6	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	711	3
6-7	.0	1.6	9.3	11.3	9.3	1.9	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	530	5
8-9	.0	.2	2.6	2.8	3.8	1.6	1.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	228	6
10-11	.0	.3	.3	.3	.8	.7	.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	7
12-13	.0	.0	.5	.2	.2	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	6
15-19	.0	.0	.0	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	6
IMORT	1.9	2.0	4.7	1.5	1.5	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	219	3
TOTAL	6.3	29.6	58.0	41.0	25.6	9.1	4.0	2.0	1.0	0	0	0	0	0	0	0	0	0	0	0	1776	4
PCT	3.7	16.7	33.1	23.1	14.4	5.1	2.3	1.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1857-1973

AREA 0009 RIO DE JANEIRO
22.75 41.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	3.0	1.9	2.8	.0	.0	.0	.0	9.3	3.8	4.4	2.0	.3	2.2	.0	78.3
NE	2.1	.4	1.3	.0	.0	.0	.0	3.8	1.0	2.2	1.4	.0	2.2	.0	89.3
E	2.0	.7	.8	.0	.0	.0	.0	3.5	2.2	1.9	2.3	.4	2.6	.0	88.8
SE	6.3	1.8	3.3	.0	.0	.0	.0	9.9	2.9	1.1	1.9	.0	.8	.0	83.7
S	9.2	3.0	4.4	.0	.0	.0	.0	15.4	3.6	1.2	1.7	.0	.2	.4	77.6
SW	9.1	3.9	3.6	.0	.0	.0	.0	17.5	5.4	1.6	2.3	.0	1.4	.0	70.7
W	6.8	3.3	2.3	.0	.0	.0	.0	11.8	4.3	3.3	5.3	.0	6.8	.0	67.3
NW	6.2	3.3	3.6	.0	.0	.0	.0	13.0	1.1	4.3	.7	.0	1.4	.0	79.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.5	.0	.0	.0	.0	.0	.0	3.5	1.8	1.8	12.3	.0	.0	.0	80.7
TOT PCT	4.6	1.4	2.4	.0	.0	.0	.0	8.1	2.6	2.3	2.3	.1	1.9	.0	82.7
TOT OBS:	2320														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
0000	4.2	2.3	3.0	.0	.0	.0	.0	11.1	2.7	6.3	2.0	.2	.8	.2	77.4
0600	4.4	1.9	2.0	.0	.0	.0	.2	7.9	3.2	2.3	3.7	.0	.8	.0	81.6
1200	4.9	1.1	2.4	.0	.0	.0	.0	8.1	2.1	.3	2.6	.3	3.2	.0	83.3
1800	3.2	.9	2.2	.0	.0	.0	.0	6.1	2.3	.0	1.6	.0	2.7	.0	87.0
TOT PCT	4.7	1.3	2.4	.0	.0	.0	.0	8.4	2.6	2.3	2.3	.1	1.9	.0	82.3
TOT OBS:	2404														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT PRSQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.8	4.7	5.9	1.3	.1	.0		13.1	13.0	9.6	10.7	13.3	16.3	15.7	17.1	12.2	11.0	
NE	1.3	10.4	12.6	2.3	.3	.0		27.3	12.7	26.2	28.2	27.1	27.9	26.4	28.1	29.6	29.6	
E	1.2	10.3	6.4	.3	.0	.0		18.6	10.1	22.7	21.1	19.4	18.0	15.1	13.0	18.0	23.3	
SE	1.0	8.3	4.1	.3	.0	.0		13.7	9.4	13.5	14.4	11.3	13.0	11.8	13.2	16.4	12.3	
S	1.1	4.3	3.7	.6	.0	.0		9.3	10.4	11.5	7.9	7.8	8.0	8.9	9.3	11.2	10.0	
SW	.8	3.4	1.7	.3	.0	.0		6.2	9.3	3.9	3.8	6.1	4.3	6.9	7.0	3.9	1.9	
W	.8	2.2	.8	.1	.0	.0		3.9	8.2	3.1	3.5	4.8	3.3	3.5	3.6	2.3	4.2	
NW	.4	2.0	1.1	.3	.0	.0		3.8	10.2	2.1	4.1	4.3	9.6	3.7	3.2	2.9	3.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.9							3.9	.0	3.4	4.2	3.6	.0	4.4	3.0	2.7	2.3	
TOT OBS	1061	4374	3386	348	33	3	9429		10.6	1669	1238	1782	115	1389	1412	1484	120	
TOT PCT	11.3	46.4	33.9	3.8	.4	.1		100.0		100.0	100.0	10.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT PRSQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	03	09	18
N	2.7	6.3	3.7	.4	.1		13.1	13.0	10.0	13.4	16.4	12.2
NE	3.2	14.3	6.8	.8	.1		27.3	12.7	27.1	27.1	27.2	28.2
E	3.3	11.1	2.2	.1	.0		18.6	10.1	22.0	19.3	13.1	18.4
SE	4.4	8.0	1.2	.1	.0		13.7	9.4	13.1	11.6	12.4	16.1
S	3.4	4.3	1.6	.2	.0		9.3	10.4	9.9	7.8	9.2	11.1
SW	2.4	3.0	.8	.1	.0		6.2	9.3	3.9	6.0	7.0	3.6
W	1.9	1.7	.3	.0	.0		3.9	8.2	3.3	4.7	4.6	2.7
NW	1.4	1.7	.6	.1	.0		3.8	10.2	2.9	4.8	4.4	3.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.9						3.9	.0	3.7	3.3	3.8	2.7
TOT OBS	2873	4749	1621	101	23	9429		10.6	2927	1897	3001	1804
TOT PCT	30.3	80.4	17.2	1.7	.3		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1857-1973

AREA 0009 RIO DE JANEIRO
22.75 41.5M

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000Z	3.7	7.0	45.8	37.7	5.0	.7	0	10.6	100.0	2927	
0600Z	3.3	6.3	48.4	33.8	5.4	.9	.1	10.4	100.0	1897	
1201Z	3.8	9.1	45.6	33.9	7.0	.6	.1	10.5	100.0	3001	
1801Z	2.7	3.9	46.3	38.8	5.5	.9	.0	10.9	100.0	1804	
TOT	363	698	4374	3386	548	55	5	10.6		9429	
PCT	3.9	7.4	46.4	35.9	5.8	.8	.1	10.6	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OVSCH	TOTAL OBS	MEAN CLOUD COVER
NE	11.5	5.0	7.3	4.0		3.7
E	8.7	4.6	3.6	3.1		4.1
SE	1.9	2.9	3.9	3.0		3.3
S	1.9	2.3	7.4	3.8		3.4
SW	1.1	.3	1.6	3.1		0.0
W	.3	.7	1.3	1.8		6.0
NW	.3	.4	1.3	.7		3.4
VAR	0.0	.0	.0	.0		0.0
CALM	1.0	.4	.8	.4		4.1
TOT OBS	820	327	326	406	1779	4.6
TOT PCT	29.2	10.4	29.6	22.8	100.0	

TABLE 6

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

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <4/8 ANY HGT	TOTAL OBS
	.1	.2	.6	1.3	.8	.7	.1	*	.2	9.0	
	.1	.2	1.1	1.3	1.4	1.2	.1	.1	.1	22.1	
	.1	.0	.8	1.7	1.5	.8	.1	*	.2	14.4	
	.1	.0	.7	1.9	1.1	.9	.2	.0	.1	6.6	
	.0	.0	.8	1.9	.1	1.0	.3	.1	.1	6.2	
	.1	.0	.6	1.0	.7	.7	.1	.0	.1	2.8	
	.2	.0	.7	.3	.4	.7	.1	.1	.0	2.2	
	.0	.1	.3	.3	.1	.4	.1	*	.0	1.3	
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	.0	.1	.1	.2	.4	.0	.1	.0	.0	1.9	
	13	7	20	102	177	128	107	20	7	1187	
	.7	.4	1.1	3.7	9.9	7.1	6.0	1.1	.4	66.7	

TABLE 7

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

CEILING (FEET)	VSBY (MH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>5000	1.3	2.1	2.3	2.3	2.3	2.3	2.3	2.3
>3500	4.2	6.6	8.1	8.2	8.3	8.3	8.3	8.3
>2000	9.3	13.3	15.0	15.4	15.5	15.5	15.5	15.6
>1000	16.7	22.9	23.0	23.4	23.5	23.5	23.5	23.6
>600	20.2	28.2	30.8	31.1	31.2	31.2	31.2	31.3
>300	20.6	28.8	31.4	32.1	32.2	32.2	32.2	32.2
>150	20.9	29.2	31.8	32.4	32.6	32.6	32.6	32.6
>0	20.9	29.3	32.3	33.0	33.2	33.2	33.2	33.3
TOTAL	376	529	582	593	598	599	599	601

TOTAL NUMBER OF OBS: 1803

PCT FREQ NH <4/8: 66.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OVSCH	TOTAL OBS
18.8	18.2	13.1	10.6	7.8	5.3	6.9	7.9	13.4	.7	1919

DECEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1857-1973

AREA 0009 RIO DE JANEIRO
22.75 41.9W

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.4	
	TOT S	.0	.1	.1	.1	.1	.0	.1	.0	.0	.0	.6	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT S	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3	
1<2	PCP	.0	.1	.1	.1	.1	.1	.1	.0	.0	.0	.6	
	NO PCP	.1	.0	.0	.1	.1	.1	.1	.0	.0	.1	.6	
	TOT S	.2	.1	.1	.2	.2	.2	.2	.0	.0	.1	1.2	
2<5	PCP	.1	.2	.1	.3	.3	.2	.0	.0	.0	.1	1.6	
	NO PCP	.3	.6	1.0	.5	.4	.3	.3	.2	.0	.1	3.8	
	TOT S	.4	.8	1.1	.9	.9	.5	.3	.2	.0	.2	5.4	
5<10	PCP	.7	.5	.4	.6	.9	.4	.2	.2	.0	.0	3.9	
	NO PCP	3.0	3.1	3.3	2.9	1.8	1.1	1.0	.3	.0	.4	19.2	
	TOT S	3.7	3.5	3.9	3.5	2.7	1.5	1.3	.5	.0	.4	23.1	
10+	PCP	.3	.2	.1	.2	.2	.3	.1	.2	.0	.0	1.6	
	NO PCP	8.9	20.2	13.9	7.9	7.3	3.6	2.3	2.1	.0	1.7	67.4	
	TOT S	9.2	20.4	14.0	8.1	7.5	3.9	2.4	2.2	.0	1.7	69.0	
TOT OBS												2315	
TOT PCT		13.6	27.0	19.2	12.8	11.5	6.2	4.3	3.0	.0	2.9	100.0	

TABLE 9

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

VISBY (MM)	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	.1	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.1	.1	.1	.0	.1	.0	.0	.0	.0	.4
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.1	.1	.0	.1	.0	.0	.0	.0	.3	
	11-21	.1	.0	.1	.0	.0	.1	.1	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT S	.1	.1	.2	.2	.2	.1	.1	.0	.0	.0	.0	1.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.4	
	4-10	.2	.3	.4	.4	.3	.2	.1	.2	.0	.0	2.3	
	11-21	.2	.4	.3	.4	.3	.2	.1	.0	.0	.0	2.0	
	22+	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.3	
	TOT S	.5	1.0	.7	.8	.7	.5	.3	.2	.0	.2	5.0	
5<10	0-3	.2	.3	.2	.1	.1	.1	.1	.1	.0	.4	1.6	
	4-10	1.0	1.8	1.9	1.3	1.1	.7	.3	.1	.0	.0	9.0	
	11-21	1.3	2.3	1.2	1.4	.9	.5	.2	.1	.0	.0	8.2	
	22+	.3	.6	.1	.1	.2	.1	.1	.0	.0	.0	1.8	
	TOT S	3.2	5.3	3.5	3.0	2.3	1.4	1.0	.3	.0	.4	20.6	
10+	0-3	.3	.8	.8	.9	.6	.4	.4	.2	.0	2.4	7.0	
	4-10	3.0	8.6	8.9	5.9	3.4	2.6	1.4	1.3	.0	.0	35.2	
	11-21	4.3	10.2	9.9	2.6	2.4	1.2	.7	.5	.0	.0	27.8	
	22+	.9	.9	.3	.2	.3	.2	.0	.1	.0	.0	2.9	
	TOT S	8.8	20.5	19.9	9.5	6.9	4.3	2.5	2.0	.0	2.4	72.8	
TOT OBS												4623	
TOT PCT		12.6	26.9	20.5	13.7	10.2	6.4	4.0	2.8	.0	3.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1917-1973
(OVER-ALL) 1857-1973

AREA 0009 RIO DE JANEIRO
22.75 41.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND OCCURRENCE OF NM <3/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <3/8	TOTAL
(GMT)	149	299	599	999	1999	3499	4999	6499	7999			ANY HGT	OBS
0203	1.1	.4	1.8	5.3	9.4	8.1	6.4	1.1	.2	.7	34.4	69.6	456
0609	1.3	.2	1.1	7.0	10.0	5.9	4.9	.8	.8	.6	32.6	67.4	472
1215	.4	.6	.9	5.7	9.6	7.0	5.1	1.1	.6	.6	31.7	68.3	470
1821	.2	.2	.9	4.1	9.8	7.2	7.0	1.3	.0	.9	31.6	68.2	469
TOT	14	7	21	103	181	192	109	21	8	13	609	1258	1867
PCT	.7	.4	1.1	5.3	9.7	7.1	5.8	1.1	.4	.7	32.6	67.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL
(GMT)							OBS
0203	.4	.3	1.0	4.2	22.2	71.9	1368
0609	.8	.4	.5	5.2	21.1	71.5	1072
1215	.4	.6	1.3	5.1	20.2	72.3	1361
1821	.6	.0	1.3	5.3	19.0	73.8	906
TOT	25	16	54	231	977	3404	4707
PCT	.5	.3	1.1	4.9	20.8	72.3	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NM <3/8	TOTAL
(GMT)	<3000	<1	<5	AND3+	AND 5+	OBS
0203	1.1	3.2	12.3	23.9	63.9	460
0609	1.1	2.4	14.8	20.8	64.5	453
1215	.4	2.4	13.8	22.6	63.6	456
1821	.4	1.8	11.2	24.2	64.5	454
TOT	14	44	233	412	1156	1803
PCT	.8	2.4	13.0	22.9	64.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
90/94	.0	.0	.0	.1	.2	.0	.4	.0	3	.3
89/89	.0	.0	.1	.1	.2	.3	.1	.0	11	.6
80/84	.0	.0	.2	1.1	4.7	4.0	1.1	.0	194	11.1
73/79	.0	.0	.5	2.6	9.2	24.3	10.2	.0	920	52.8
70/74	.0	.0	.3	2.6	5.3	9.1	13.1	.0	363	32.4
69/69	.0	.0	.0	.0	.1	.0	1.1	1.4	47	2.7
60/64	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
TOTAL	0	0	1	22	117	340	673	390	1743	100.0
PCT	.0	.0	.1	1.3	6.7	19.5	38.6	33.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.1	.1	.1	.0	.0	.1	.0	.0	.0	.0
89/89	.2	.3	.1	.0	.0	.1	.0	.0	.0	.0
80/84	2.9	4.2	1.3	.7	.7	.3	.4	.2	.0	.2
73/79	9.3	17.7	8.0	3.0	4.7	2.8	2.3	1.7	.0	1.3
70/74	2.5	5.9	7.7	3.8	3.0	2.4	1.2	.9	.0	1.1
69/69	.1	.3	.3	.6	.4	.6	.6	.0	.0	.0
60/64	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	19.0	28.5	17.5	12.1	10.8	6.1	4.9	3.0	.0	2.6

TABLE 15

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

HR	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
0203	86	82	79	75	70	67	57	74.8	2904
0609	86	81	78	74	69	67	63	74.1	1907
1215	90	84	82	76	71	68	65	76.3	2909
1821	92	87	83	77	72	69	66	77.3	1336
TOT	92	84	81	76	70	68	57	73.6	9256

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
0203	.0	.8	4.8	13.8	33.6	43.0	86		86	480
0609	.0	.7	3.4	11.8	33.7	48.4	87		87	442
1215	.0	1.7	7.6	22.9	40.9	26.8	83		83	462
1821	.0	2.2	11.3	29.3	41.1	15.9	80		80	409
TOT	0	24	120	344	686	619	94		94	1799

DECEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1857-1973

AREA 0009 RIO DE JANEIRO
22.75 41.5W

TABLE 7

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

AIR-SEA TMP DIF	61	65	69	73	77	81	85	89	TOT	M FUC	MO FOG
20/22	.0	.0	.0	.0	.0	.0	.1	.0	2	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
14/16	.0	.0	.0	.0	.0	.0	*	*	2	.0	.1
11/13	.0	.0	.0	.1	.1	.1	.1	.1	14	*	1.6
9/10	.0	.0	.0	.4	.4	.4	.2	*	31	.0	1.5
7/8	.0	.0	.3	.3	1.1	.8	.3	*	60	.0	3.0
6	.0	.0	*	.3	.7	.3	.1	.0	34	.0	1.7
5	.0	.0	.4	1.0	1.1	1.0	*	.0	73	.1	3.5
4	.0	*	.3	1.8	2.0	1.1	*	.0	109	.2	5.2
3	.0	.0	.5	2.8	3.1	.8	.0	.0	142	.2	6.8
2	.0	.1	.8	3.7	4.7	.7	.0	.0	244	.1	11.9
1	.0	.1	1.1	6.1	5.8	.3	.0	.0	270	.5	12.9
0	.0	.1	2.8	8.0	5.9	.3	.0	.0	344	.2	16.8
-1	.0	*	1.2	6.3	3.3	.1	.0	.0	222	.0	11.0
-2	.0	.2	7.4	3.1	1.4	.0	.0	.0	188	.2	9.0
-3	*	.1	1.3	2.8	.7	.0	.0	.0	103	.1	5.1
-4	.0	.1	1.4	1.9	.2	*	.0	.0	74	.0	3.7
-5	.0	.1	1.0	1.0	.2	.0	.0	.0	48	.1	2.2
-6	.0	.1	.5	.3	.1	.0	.0	.0	22	.0	1.1
-7/-8	*	.2	.4	.4	.1	.0	.0	.0	29	*	1.4
-9/-10	.0	.0	.2	.1	.0	.0	.0	.0	7	.0	.3
-11/-13	.0	.0	.0	*	.0	.0	.0	.0	1	.0	*
TOTAL	2		299	904	627	20	7		2020	1.9	98.1
PCT	.1	1.4	14.8	44.8	31.0	6.3	1.0	.3	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 10

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

HGT	N					PCT	NE					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
41	.0	.3	.0	.0	.0	.3	.4	.7	.0	.0	.0	1.4
1-2	.0	2.1	.9	.0	.0	3.0	.3	6.7	2.3	.0	.0	9.3
3-4	.0	1.1	2.8	.1	.0	3.6	.0	2.3	6.9	.7	.0	9.9
5-6	.0	.3	2.3	.3	.0	3.1	.0	.3	4.3	.6	.0	5.4
7	.0	.0	.7	.2	.0	.9	.0	.0	.8	.6	.0	1.3
8-9	.0	.0	.2	.1	.0	.3	.0	.1	*	.2	.0	.3
10-11	.0	.0	.0	.4	.0	.4	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.7	6.7	1.3	.0	11.7	.9	10.1	13.1	4.0	.0	28.1

HGT	E					PCT	SE					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
41	.0	.9	.1	.0	.0	1.0	.1	.3	.0	.0	.0	.4
1-2	.1	3.8	2.9	.0	.0	6.8	.1	2.9	.7	.0	.0	3.7
3-4	.1	3.3	4.6	.0	.0	8.2	.0	1.8	3.4	.0	.0	4.2
5-6	.0	.3	3.8	.1	.0	3.9	.0	.3	1.4	.0	.0	1.7
7	.0	.1	.4	.1	.0	.7	.0	.2	.9	.4	.0	1.5
8-9	.0	.0	.0	.3	.0	.3	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	10.8	11.0	.3	.0	22.4	.3	3.6	3.9	.6	.0	12.3

PERIOD: (OVER-ALL) 1968-1979

DECEMBER

AREA 0009 RIO DE JANEIRO
22.75 41.5W

TABLE 18 (CONT)

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.2	.0	.0	.0	.0	.2	.5	.1	.0	.0	.0	.0	.0
1-2	.3	1.8	1.5	.0	.0	.0	3.6	.1	2.2	.3	.0	.0	.0	2.7
3-4	.0	1.8	1.3	.0	.0	.0	2.9	.0	.8	1.0	.0	.0	.0	1.8
5-6	.0	.2	1.1	.3	.0	.0	1.6	.0	.1	.4	.1	.0	.0	.8
7	.0	.1	1.1	.3	.0	.0	1.6	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.9	5.1	.9	.0	.0	10.2	.6	2.2	2.3	.2	.0	.0	6.4

HGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2
1-2	.1	1.6	.7	.0	.0	.0	2.4	.4	.9	.0	.0	.0	.0	1.3
3-4	.0	.8	.1	.0	.0	.0	.9	.0	.4	.1	.0	.0	.0	.5
5-6	.0	.3	.2	.0	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.7	1.0	.1	.0	.0	3.9	.3	1.3	.3	.0	.0	.0	2.2 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	4.7	2.6	.1	.0	.0	.0	7.8	
1-2	2.0	23.8	9.4	.0	.0	.0	35.2	
3-4	.1	12.1	18.6	.7	.0	.0	31.5	
5-6	.1	1.9	13.1	1.6	.0	.0	16.7	
7	.0	.4	4.2	1.6	.0	.0	6.2	
8-9	.0	.1	.6	.6	.0	.0	1.4	
10-11	.0	.0	.4	.9	.0	.0	1.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.1	.1	.0	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.0	41.0	46.3	9.9	.0	.0	100.0	802

PERIOD: (OVER-ALL) 1968-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	2.4	13.9	16.6	7.0	1.7	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	639	3
6-7	.0	1.8	9.6	12.3	3.7	2.4	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	304	5
8-9	.1	.2	2.0	3.4	2.6	1.3	.1	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	157	6
10-11	.0	.7	.3	.4	.8	.6	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	6
12-13	.0	.0	.5	.2	.4	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	6
13-19	.0	.0	.0	.2	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
INDET	2.9	2.1	2.9	1.5	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	160	3
TOTAL	78	268	496	390	147	84	17	6	9	1	0	0	0	0	0	0	0	0	0	0	1336	4
PCT	5.0	18.5	31.9	25.1	12.0	5.4	1.1	.4	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1894-1974

ANNUAL

AREA 0009 RIO DE JANEIRO
22.7S 41.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRIZ PCPN	SNOW	OTHR PRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FG NO	FG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.1	1.0	.9	.0	.0	.0	0	3.9	2.1	2.2	2.0	.1	2.5	.1	87.2
NE	1.7	.8	.7	.0	.0	.0	.0	3.2	1.2	1.6	2.0	0	2.1	0	90.0
E	2.3	1.6	1.1	.0	.0	.0	.0	3.1	2.5	1.3	1.3	.1	1.9	0	87.8
SE	4.7	2.2	2.3	.0	.0	.0	.0	9.0	3.4	1.3	1.1	0	1.2	0	84.3
S	3.1	2.4	2.0	.0	.0	.0	0	9.3	4.3	1.3	1.2	.1	1.5	.1	82.3
Sw	4.4	2.3	2.3	.0	.0	.0	.0	9.8	3.4	2.0	2.3	.1	2.3	0	80.0
W	3.3	2.4	2.2	.0	.0	.0	.0	9.6	3.2	3.2	3.8	.3	2.8	.1	77.3
Nw	4.8	1.9	2.4	.0	.0	.0	.0	9.0	2.7	2.7	3.3	.0	2.8	0	79.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALP	2.1	.3	1.4	.0	.0	.0	.0	3.7	1.9	2.3	3.9	.2	4.8	.0	81.2
TOT PCT	3.0	1.6	1.4	.0	.0	.0	0	3.9	2.5	1.7	1.9	.1	2.0	0	86.0
TOT OBS:	33168														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRIZ PCPN	SNOW	OTHR PRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FG NO	FG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0800	3.8	1.9	1.8	.0	.0	.0	0	7.3	2.3	4.1	1.3	0	1.4	0	83.7
0809	3.3	1.7	1.6	.0	.0	.0	0	6.4	3.3	2.6	2.3	0	1.3	0	84.1
1201	3.0	1.7	1.1	.0	.0	.0	0	3.8	2.1	.2	2.3	.2	2.9	0	86.8
1821	2.2	1.3	1.3	.0	.0	.0	.0	4.7	2.1	.2	1.7	.1	2.4	0	88.9
TOT PCT	3.1	1.6	1.4	.0	.0	.0	0	6.0	2.4	1.8	2.0	.1	2.0	0	85.8
TOT OBS:	34317														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT PRSQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.9	4.0	4.9	.9	.1	0	11.4	11.8	7.8	9.0	11.4	12.9	14.7	14.8	10.6	9.9	
NE	1.4	11.3	12.4	2.0	.1	0	27.4	11.9	20.3	27.3	28.7	27.8	28.1	23.7	28.1	27.3	
E	1.6	9.4	9.9	.6	0	0	17.6	9.9	20.9	20.1	17.5	18.7	14.8	13.0	17.2	20.8	
SE	1.3	7.2	3.9	.3	0	0	13.0	9.7	19.9	13.7	11.6	13.4	10.9	12.2	14.0	13.8	
S	1.2	3.1	3.1	.3	0	0	9.9	9.9	11.8	9.3	8.8	8.4	8.6	9.3	11.7	10.7	
Sw	.9	4.3	2.9	.8	.1	0	8.8	10.3	8.3	8.1	8.1	7.2	9.2	9.2	10.1	7.3	
W	.7	2.4	1.1	.2	0	0	4.4	9.1	3.3	4.3	4.9	4.7	3.4	3.3	3.3	4.1	
Nw	.3	1.8	.8	.2	0	0	3.3	9.1	1.9	3.2	3.6	4.4	4.0	4.7	2.3	4.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.1	.0	.0	.0	.0	.0	4.1	.0	9.9	4.8	3.4	2.3	4.2	3.7	2.3	1.9	
TOT OBS							123330	10.3	21042	16015	23130	1703	20865	18367	19373	1816	
TOT PCT	12.3	46.4	33.0	3.6	.4	0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT PRSQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+				00	03	09	12	18	21
N	2.8	3.6	2.7	.2	0	11.4	11.8	8.3	11.3	14.8	10.3			
NE	3.6	15.1	6.2	.3	0	27.4	11.9	26.7	28.6	27.0	28.0			
E	3.3	9.8	2.2	.1	0	17.6	9.9	20.6	17.6	14.9	17.3			
SE	4.3	6.7	1.6	.1	0	13.0	9.7	14.7	11.7	11.3	14.0			
S	3.6	4.7	1.3	.1	0	9.9	9.9	10.8	8.7	8.0	11.6			
Sw	2.8	4.3	1.3	.2	0	8.8	10.3	8.4	8.1	9.2	9.9			
W	1.9	1.9	.3	.1	0	4.4	9.1	3.7	4.9	3.4	3.3			
Nw	1.3	1.4	.4	0	0	3.3	9.1	2.4	3.6	4.3	2.6			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	4.1	.0	.0	.0	.0	4.1	.0	4.3	3.2	4.0	2.3			
TOT OBS						123330	10.3	38237	24853	39233	21189			
TOT PCT	33.3	49.6	16.4	1.3	.1	100.0	100.0	100.0	100.0	100.0	100.0			

ANNUAL

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1854-1974

AREA 0009 RIO DE JANEIRO
22.75 41.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GPT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+				
0000Z	4.3	8.1	47.9	34.2	5.4	.4	*	10.2	100.0	38237	
0600Z	3.2	8.4	46.7	34.2	5.2	.3	*	10.1	100.0	24889	
1201Z	4.0	9.5	45.1	35.0	6.0	.4	*	10.3	100.0	39235	
1802Z	2.5	7.2	46.7	37.7	5.6	.3	*	10.7	100.0	21189	
TOT								10.3		123536	
PCT	4.1	8.3	46.4	35.0	5.6	.4	*	10.0	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	4.4	1.6	2.8	1.9		3.8
NE	14.8	5.8	6.8	3.3		3.2
E	7.0	3.7	4.8	3.3		3.9
SE	3.1	2.3	3.7	3.0		4.8
S	2.3	1.8	3.1	2.8		3.0
SW	1.8	1.4	2.7	2.5		3.2
W	.8	.8	1.1	1.2		5.2
NW	.6	.4	.7	.8		4.9
VAR	.0	.0	.0	.0		3.0
CALM	1.3	.5	.7	.5		3.6
TOT OBS					24210	4.1
TOT PCT	36.2	18.2	26.5	19.1	100.0	

TABLE 6

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

WIND DIR	000	150	300	600	1000	2000	3500	5000	8000+	NH <5/8	TOTAL
N	.1	*	.1	.5	.8	.5	.4	*	.1	.1	8.3
NE	.1	.1	.2	1.1	1.6	1.3	.7	.2	.1	.2	24.9
E	.1	*	.2	1.1	1.8	1.2	.6	.2	.1	.1	13.3
SE	.1	*	.2	.9	1.6	1.0	.5	.2	.1	.1	7.3
S	.1	*	.2	.8	1.5	1.0	.5	.1	.1	.1	5.8
SW	.1	*	.2	.8	1.3	.8	.5	.2	*	.1	4.5
W	.1	*	.1	.3	.6	.4	.2	.1	*	*	2.0
NW	*	*	.1	.2	.2	.2	.1	*	*	*	1.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	*	*	*	.2	.2	.1	.1	*	*	*	2.2
TOT OBS											24210
TOT PCT	.8	.2	1.2	6.0	9.8	6.4	3.9	1.0	.4	.7	69.8

TABLE 7

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

CEILING (FEET)	VSBY (NH)			VSBY (NH)				
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>8000	.9	1.1	1.2	1.2	1.2	1.2	1.2	1.2
>6000	1.5	2.0	2.2	2.3	2.3	2.3	2.3	2.3
>4000	3.3	4.9	5.6	5.8	5.8	5.8	5.9	5.9
>2000	7.7	10.7	11.8	12.1	12.2	12.2	12.2	12.2
>1000	14.7	19.8	21.4	21.8	21.9	22.0	22.0	22.0
>800	18.6	23.3	25.3	25.7	25.9	26.0	26.0	26.0
>600	19.1	26.2	28.3	28.6	29.0	29.0	29.1	29.1
>400	19.2	28.4	28.8	29.0	29.2	29.3	29.3	29.3
>200	19.3	28.7	29.1	29.8	29.9	30.0	30.1	30.2

TOTAL NUMBER OF OBS: 24602

PCT FREQ NH <5/8: 69.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
18.6	17.0	14.9	10.9	7.7	5.5	6.1	4.3	12.4	.6	26332

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1954-1974

ANNUAL

AREA 0009 RIO DE JANEIRO
22.7S 41.4W

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
<1/2	PCP	0	0	0	0	0	0	0	0	0	0	0	1
	NO PCP	0	0	0	0	0	0	0	0	0	0	0	13
	TOT S	0	.1	.1	0	0	0	0	0	0	0	0	14
1/2<1	PCP	0	0	0	0	0	0	0	0	0	0	0	1
	NO PCP	0	0	0	0	0	0	0	0	0	0	0	2
	TOT S	0	.1	0	0	0	.1	0	0	0	0	0	3
1<2	PCP	0	0	.1	.1	.1	.1	0	0	0	0	0	3
	NO PCP	.1	.2	.1	.1	.1	.1	0	0	0	0	0	7
	TOT S	.1	.2	.1	.2	.1	.1	0	0	0	0	0	10
2<5	PCP	0	.1	.1	.2	.2	.1	.1	0	0	0	0	9
	NO PCP	.4	1.0	.7	.5	.4	.4	.2	.2	0	.1	0	3.9
	TOT S	.4	1.1	.8	.7	.5	.5	.3	.2	0	.2	0	4.8
5<10	PCP	.2	.3	.5	.6	.4	.4	.2	.1	0	0	0	3.0
	NO PCP	2.2	3.0	3.5	2.9	2.1	1.9	1.1	.7	0	.6	0	20.2
	TOT S	2.4	3.1	4.0	3.1	2.5	2.3	1.3	.8	0	.7	0	23.2
10+	PCP	.1	.2	.2	.3	.3	.2	.1	.1	0	0	0	1.4
	NO PCP	7.8	21.8	19.4	8.1	6.9	5.2	2.2	1.5	0	1.9	0	68.8
	TOT S	7.9	22.1	19.6	8.4	7.1	5.4	2.3	1.6	0	2.0	0	70.3
TOT OBS													33131
TOT PCT													10.9 29.6 18.6 12.4 10.3 8.5 4.0 2.7 0 2.9 100.0

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	0	0	0	0	0	0	0	0	0	.1	.1	1
	4-10	0	0	0	0	0	0	0	0	0	0	0	1
	11-21	0	0	0	0	0	0	0	0	0	0	0	1
	22+	.0	0	0	0	0	0	0	0	.0	.0	0	0
	TOT S	0	0	.1	0	0	0	0	0	0	0	.1	.2	3
1/2<1	0-3	.0	0	0	0	0	0	0	0	0	0	0	1
	4-10	0	0	0	0	0	0	0	0	0	0	0	1
	11-21	0	0	0	0	0	0	0	0	0	0	0	1
	22+	.0	0	0	0	0	0	0	0	0	0	0	0
	TOT S	0	0	0	0	0	.1	0	0	0	0	0	2
1<2	0-3	0	0	0	0	0	0	0	0	0	.1	.2	3
	4-10	0	.1	.1	.1	.1	0	0	0	0	0	0	4
	11-21	0	.1	0	0	.1	.1	0	0	0	0	0	4
	22+	0	0	0	0	0	0	0	0	0	0	0	1
	TOT S	.1	.2	.2	.2	.2	.1	.1	0	0	.1	.1	10
1<5	0-3	.1	.1	0	.1	0	0	0	0	0	.2	.3	5
	4-10	.2	.4	.3	.3	.2	.2	.2	.1	0	0	0	1.9
	11-21	.2	.4	.3	.3	.2	.2	.1	0	0	0	0	1.7
	22+	0	.1	0	0	0	0	0	0	0	0	0	1
	TOT S	.4	.9	.7	.7	.5	.5	.3	.2	0	.2	.3	4.4
5<10	0-3	.2	.3	.2	.2	.2	.2	.1	.1	0	.6	2.1	11
	4-10	.8	1.7	1.7	1.3	1.0	.9	.6	.4	0	0	0	8.4
	11-21	.8	2.3	1.3	1.0	.8	.7	.3	.1	0	0	0	7.3
	22+	.2	.3	.2	.1	.1	.2	.1	0	0	0	0	1.4
	TOT S	2.1	4.8	3.3	2.6	2.1	1.9	1.0	.7	0	.6	2.1	19.1
10+	0-3	.6	1.1	1.2	.9	.7	.5	.4	.3	0	2.6	8.4	44
	4-10	3.5	9.7	8.1	5.4	3.8	3.0	1.9	1.1	0	0	0	36.1
	11-21	3.9	10.8	5.0	2.4	2.2	2.0	.7	.4	0	0	0	27.4
	22+	.5	1.2	.9	.2	.2	.4	.1	0	0	0	0	3.0
	TOT S	8.5	22.8	14.9	8.9	7.0	5.9	2.8	1.8	0	2.6	2.1	74.8
TOT OBS													3345
TOT PCT													11.0 28.4 18.8 12.4 9.9 8.6 4.2 2.7 0 3.3 100.0

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1854-1974

ANNUAL

AREA 0009 RIO DE JANEIRO
22.78 41.4W

TABLE 10

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

HR	000	180	300	600	1000	2000	3000	5000	6000	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	399	999	1999	3499	4999	6499	7999				
0000Z	1.2	.2	1.0	6.0	9.0	5.8	3.3	.9	.4	.5	28.4	71.6	6365
0600Z	1.2	.3	1.2	6.5	10.4	5.8	3.8	.8	.5	.9	31.4	68.6	6363
1201Z	.4	.3	1.2	6.0	10.3	7.3	3.4	1.1	.5	.7	31.1	68.9	6497
1802Z	.4	.1	1.1	4.6	8.5	6.1	3.5	1.3	.4	.9	26.6	73.4	6507
TOT													23732
PCT	.8	.2	1.1	5.8	9.5	6.2	3.5	1.0	.4	.8	29.3	70.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL
(GMT)							OBS
0000Z	.3	.3	1.1	4.7	19.8	73.9	16997
0600Z	.6	.4	1.3	4.9	19.3	73.3	14190
1201Z	.4	.3	1.2	4.2	19.3	74.3	16974
1802Z	.3	.3	1.2	4.2	18.0	76.0	12467
TOT							64628
PCT	.4	.3	1.2	4.3	19.3	74.3	100.0

TABLE 12

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

HR	<180	<600	<1000	1000+	NH <5/8	TOTAL
(GMT)	<300V	<1	<5	AND 5+	AND 5+	OBS
0000Z	1.2	2.8	12.9	18.9	68.2	6096
0600Z	1.3	3.3	14.9	20.0	65.1	6084
1201Z	.4	2.3	12.9	21.8	65.3	6220
1802Z	.4	2.0	11.1	18.5	70.4	6234
TOT						24602
PCT	.8	2.6	13.0	19.8	67.2	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	PCT
									OBS	FREQ
95/99	.0	.0	.0	.0	.0	.0	.0	.0		.0
90/94	.0	.0	.0	.0	.1	.0	.0	.0		.2
85/89	.0	.0	.0	.1	.3	.5	.1	.1		1.1
80/84	.0	.0	.1	.2	1.1	4.5	9.8	1.1		10.6
75/79	.0	.0	.0	.6	2.3	9.0	15.9	8.9		36.7
70/74	.0	.0	.1	.7	3.6	8.1	15.0	12.8		40.2
65/69	.0	.0	.0	.4	1.3	2.0	3.6	3.1		10.5
60/64	.0	.0	.0	.1	.1	.2	.2	.3		.8
55/59	.0	.0	.0	.0	.0	.0	.0	.0		.0
TOTAL									24254	100.0
PCT	.0	.0	.2	2.0	8.8	24.3	38.7	26.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85/89	.2	.3	.2	.1	.0	.0	.0	.0	.0	.1
80/84	2.1	4.1	1.6	.8	.6	.5	.2	.3	.0	.3
75/79	3.1	12.1	6.1	4.3	3.3	2.4	1.2	1.0	.0	1.1
70/74	3.4	11.6	8.0	3.3	4.6	3.8	1.3	.9	.0	1.2
65/69	.4	1.6	2.0	2.0	1.7	1.5	.6	.2	.0	.3
60/64	.1	.0	.1	.1	.2	.1	.0	.0	.0	.0
55/59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	11.3	29.8	18.2	12.5	10.5	8.5	3.7	2.5	.0	3.0

TABLE 15

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

HR	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
0000Z	91	80	78	74	68	66	54	73.5	38043
0600Z	95	79	77	73	68	65	54	72.7	24865
1201Z	99	84	81	75	69	66	53	75.1	38210
1802Z	95	83	82	74	70	67	55	75.9	20510
TOT	95	83	80	74	69	66	54	74.2	121628

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
0000Z	.0	1.3	7.0	20.0	39.3	32.5	84	6820		
0600Z	.0	1.2	5.7	17.3	39.2	36.6	83	5840		
1201Z	.0	2.7	9.3	26.2	39.6	22.2	81	6835		
1802Z	.0	3.6	13.0	33.9	35.6	13.9	79	5491		
TOT	1	534	2170	6065	9663	6593	82	25006		

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1854-1974

ANNUAL

AREA 0009 RIO DE JANEIRO
22.75 41.4W

TABLE 17

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

AIR-SEA TMP DIF	53 54	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.0
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	.0
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	128	.0	.4
9/10	.0	.0	.0	.0	.2	.2	.3	.3	.3	.2	.0	213	.0	.8
7/8	.0	.0	.0	.1	.3	.3	.4	.4	.2	.0	.0	439	.0	1.6
6	.0	.0	.0	.1	.4	.6	.3	.1	.0	.0	.0	399	.0	1.4
5	.0	.0	.0	.3	.8	1.0	.6	.1	.0	.0	.0	777	.0	2.8
4	.0	.0	.0	.1	.6	1.4	1.4	.7	.1	.0	.0	1191	.1	4.2
3	.0	.0	.0	.1	.9	2.0	1.7	.6	.1	.0	.0	1494	.1	5.3
2	.0	.0	.0	.3	1.9	3.7	2.7	.9	.1	.0	.0	2635	.1	9.5
1	.0	.0	.0	.4	2.7	5.2	3.4	.8	.0	.0	.0	3487	.2	12.4
0	.0	.0	.0	.8	4.6	6.6	4.2	.9	.0	.0	.0	4744	.3	16.8
-1	.0	.0	.0	.8	3.7	4.8	3.4	.4	.0	.0	.0	3631	.2	12.9
-2	.0	.0	.1	1.0	3.7	4.0	2.3	.2	.0	.0	.0	3156	.2	11.2
-3	.0	.0	.1	.8	2.4	2.3	1.1	.1	.0	.0	.0	1893	.1	6.7
-4	.0	.0	.1	.9	1.9	1.6	.6	.0	.0	.0	.0	1411	.1	5.0
-5	.0	.0	.1	.7	1.2	1.0	.3	.0	.0	.0	.0	904	.0	3.2
-6	.0	.0	.1	.4	.7	.3	.1	.0	.0	.0	.0	489	.0	1.7
-7/-8	.0	.0	.1	.3	.6	.4	.1	.0	.0	.0	.0	466	.0	1.7
-9/-10	.0	.0	.1	.3	.6	.1	.0	.0	.0	.0	.0	192	.0	.3
-11/-13	.0	.0	.1	.1	.4	.0	.0	.0	.0	.0	.0	69	.0	.2
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	.0	.0
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.0
TOTAL												27775		
PCT	.0	.1	.9	7.0	21.6	35.2	23.8	6.4	.9	.2	.0	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.3	.8	.0	.0	.0	.0	.8	.4	1.1	.1	.0	.0	.0	1.4
1-2	.1	2.2	.8	.0	.0	.0	3.2	.4	6.1	2.9	.0	.0	.0	9.4
3-4	.0	1.0	2.1	.1	.0	.0	3.3	.1	2.8	6.8	.3	.0	.0	10.1
5-6	.0	.2	1.8	.2	.0	.0	1.9	.0	.3	4.6	.6	.0	.0	3.7
7	.0	.0	.3	.2	.0	.0	.9	.0	.1	1.7	.8	.0	.0	2.6
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.1	.3	.3	.0	.0	1.1
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.0	3.3	.9	.0	.0	10.6	.9	10.7	16.7	2.6	.1	.0	31.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.3	1.0	.1	.0	.0	.0	1.4	.3	.6	.0	.0	.0	.0	1.0
1-2	.3	3.2	1.3	.0	.0	.0	7.1	.3	3.7	1.0	.0	.0	.0	5.1
3-4	.1	2.6	3.6	.1	.0	.0	6.1	.1	1.8	1.8	.0	.0	.0	3.7
5-6	.0	.3	1.9	.2	.0	.0	2.6	.0	.4	1.7	.1	.0	.0	1.7
7	.0	.1	.7	.2	.0	.0	1.0	.0	.1	.4	.1	.0	.0	.6
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	9.3	7.8	.6	.0	.0	18.5	.7	6.7	4.7	.2	.0	.0	12.4

PERIOD: (OVER-ALL) 1963-1974

ANNUAL

AREA 0009 RIO DE JANEIRO
22.7S 41.4W

TABLE 18 (CONT)

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

MGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.5	.*	.0	.0	.0	.7	.2	.4	.*	.0	.0	.0	.6
1-2	.3	2.7	.9	.0	.0	.0	3.9	.1	2.2	.7	.0	.0	.0	3.0
3-4	.1	1.4	1.5	.1	.0	.0	3.1	.*	1.0	1.3	.1	.0	.0	2.4
5-6	.0	.2	1.0	.1	.0	.0	1.4	.0	.2	.8	.2	.0	.0	1.3
7	.0	.1	.5	.1	.0	.0	.7	.0	.*	.3	.2	.0	.0	.5
8-9	.0	.*	.1	.1	.*	.0	.1	.0	.*	.1	.1	.*	.0	.2
10-11	.0	.0	.1	.1	.0	.0	.1	.0	.*	.*	.1	.*	.0	.1
12	.0	.0	.0	.*	.0	.0	.*	.0	.0	.*	.*	.*	.0	.1
13-16	.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	5.0	4.0	.8	.*	.0	10.0	.3	3.8	3.3	.7	.*	.0	8.2

MGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.3	.0	.0	.0	.0	.4	.1	.2	.*	.0	.0	.0	.3	.9
1-2	.1	1.2	.3	.0	.0	.0	1.6	.1	.8	.2	.0	.0	.0	1.1	1.1
3-4	.0	.6	.4	.1	.0	.0	1.1	.0	.4	.3	.*	.0	.0	.4	.4
5-6	.0	.1	.1	.*	.0	.0	.3	.0	.*	.2	.*	.0	.0	.3	.3
7	.0	.0	.1	.1	.*	.0	.2	.0	.*	.1	.*	.0	.0	.1	.1
8-9	.0	.0	.*	.*	.*	.0	.*	.0	.0	.*	.*	.0	.0	.*	.*
10-11	.0	.0	.*	.*	.*	.0	.*	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.*	.0	.*	.0	.*	.0	.0	.0	.0	.*	.*
13-16	.0	.*	.0	.*	.0	.0	.*	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.2	1.0	.2	.*	.0	3.7	.2	1.3	.7	.*	.0	.0	2.4	96.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.7	4.7	.2	.0	.0	.0	10.6	
1-2	2.3	24.0	8.1	.0	.0	.0	34.8	
3-4	.3	11.4	17.3	.9	.0	.0	29.9	
5-6	.*	2.1	11.2	1.4	.*	.0	14.8	
7	.*	.4	4.2	1.8	.*	.0	6.6	
8-9	.*	.1	1.1	1.0	.1	.0	2.3	
10-11	.0	.1	.3	.4	.*	.0	.8	
12	.0	.*	.1	.1	.*	.0	.2	
13-16	.0	.*	.1	.1	.*	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.*	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	42.7	42.7	5.8	.2	.0	100.0	10927

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.6	13.6	15.7	6.0	2.1	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8399	3
6-7	.1	2.1	9.6	10.3	4.3	1.6	.6	.2	.1	.*	.*	.*	.*	.*	.*	.*	.*	.*	.*	.*	6041	3
8-9	.*	.3	2.0	3.3	3.2	1.6	.3	.2	.2	.*	.*	.*	.*	.*	.*	.*	.*	.*	.*	.*	2416	6
10-11	.0	.6	.3	.6	.8	.6	.4	.2	.1	.*	.*	.*	.*	.*	.*	.*	.*	.*	.*	.*	927	6
12-13	.0	.0	.3	.2	.3	.2	.1	.1	.1	.*	.*	.*	.*	.*	.*	.*	.*	.*	.*	.*	330	6
>13	.0	.0	.0	.2	.2	.1	.1	.1	.1	.0	.*	.*	.*	.*	.*	.*	.*	.*	.*	.*	121	9
INDET	3.3	2.4	3.4	1.7	1.2	.4	.2	.1	.*	.*	.*	.*	.*	.*	.*	.*	.*	.*	.*	.*	2644	3
TOTAL																					2077	4
PCT	6.0	19.1	31.3	22.3	12.3	3.1	2.2	.9	.6	.1	.*	.*	.*	.*	.*	.*	.*	.*	.*	.*	100.0	

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1854-1974

AREA 0009 RIO DE JANEIRO
22.75 41.4W

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	2	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	.0
85/86	.1	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	96	.1
83/84	.9	2.0	2.3	1.0	.1	.0	.0	.0	.0	.0	.0	.1	608	.3
81/82	7.0	13.4	15.4	8.6	1.4	.4	.1	.1	.1	.1	.3	1.3	4509	3.9
79/80	17.9	24.8	27.9	20.8	6.7	1.4	.4	.2	.3	.3	1.7	6.6	10418	9.0
77/78	27.1	29.4	27.8	27.6	19.0	6.7	1.6	1.0	1.2	2.1	6.9	19.3	13730	13.6
75/76	22.5	16.4	15.7	23.6	27.6	18.9	10.2	4.7	4.8	9.5	19.7	27.7	19398	16.8
73/74	14.4	9.0	7.3	12.7	27.3	32.4	25.7	19.5	19.5	24.8	32.1	25.7	24440	21.1
71/72	5.6	3.8	1.8	3.3	12.7	24.3	27.9	28.6	26.4	27.4	22.9	12.0	19273	16.6
69/70	2.7	1.8	.8	1.4	3.7	11.2	19.8	23.9	25.8	20.4	10.2	4.3	12488	10.8
67/68	1.3	.8	.4	.4	.9	3.4	9.8	13.4	14.8	10.3	4.0	1.7	5919	5.1
65/66	.3	.2	.1	.2	.3	.7	3.2	4.5	5.0	3.3	1.2	.6	1896	1.6
63/64	.2	.2	.0	.0	.1	.4	.9	1.6	1.6	1.2	.6	.2	672	.6
61/62	.0	.1	.1	.0	.1	.2	.3	.3	.3	.3	.2	.0	174	.2
59/60	.0	.0	.0	.0	.0	.0	.1	.1	.1	.2	.1	.0	72	.1
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	8738	8942	9581	9905	10480	10513	10493	9721	9181	8704	8551	8950	118738	100.0
MEAN	76.3	77.3	77.9	76.9	74.8	72.9	71.4	70.6	70.6	71.3	73.6	74.7	73.9	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL Obs
JAN	1012	1013	1012	1012	1013	1013	1012	1012	1012	5376
FEB	1013	1013	1012	1013	1013	1013	1012	1012	1013	5461
MAR	1014	1014	1013	1014	1014	1014	1013	1014	1014	5662
APR	1014	1018	1015	1013	1016	1016	1015	1016	1016	6197
MAY	1014	1018	1017	1017	1019	1018	1017	1017	1018	6297
JUN	1019	1019	1019	1019	1020	1020	1019	1019	1019	6209
JUL	1021	1021	1020	1020	1022	1022	1020	1020	1021	6366
AUG	1020	1020	1019	1018	1021	1020	1019	1018	1020	5794
SEP	1018	1018	1017	1018	1019	1018	1017	1017	1018	5338
OCT	1016	1016	1015	1014	1017	1016	1015	1014	1015	5531
NOV	1014	1014	1013	1013	1014	1014	1013	1012	1013	5393
DEC	1012	1012	1011	1012	1013	1013	1012	1011	1012	5000
ANN	1014	1016	1015	1015	1017	1016	1015	1015	1016	60714
OBS	12409	6883	13302	1351	12227	8434	11491	1438		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	998	1002	1006	1010	1013	1018	1019	1019	1024
FEB	1001	1004	1007	1010	1013	1019	1018	1020	1023
MAR	1002	1009	1008	1011	1014	1016	1018	1020	1027
APR	1000	1006	1009	1013	1016	1018	1021	1024	1031
MAY	1000	1008	1011	1015	1018	1020	1024	1026	1031
JUN	1002	1009	1013	1017	1019	1022	1025	1028	1034
JUL	1002	1010	1014	1018	1021	1024	1028	1030	1034
AUG	1000	1009	1013	1017	1020	1023	1026	1029	1037
SEP	1001	1008	1011	1015	1018	1021	1025	1027	1033
OCT	1000	1004	1008	1013	1016	1018	1023	1025	1033
NOV	997	1003	1006	1011	1013	1016	1020	1023	1030
DEC	995	1001	1005	1009	1012	1019	1019	1021	1030

JANUARY

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1863-1971

AREA 0010 FLORIANOPOLIS
26-05 45.7W

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	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	M FOG	WD FOG
17/19	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.0	.1	.0	.2	.0	3	.0	.3
9/10	.0	.0	.0	.1	.0	.0	.6	.1	.1	14	.0	.9
7/8	.0	.0	.0	.3	.4	.6	.3	.1	.0	31	.0	2.0
6	.0	.0	.0	.3	.4	.9	.3	.0	.0	30	.1	1.9
5	.0	.0	.0	.5	.8	1.2	.4	.0	.0	46	.0	2.9
4	.0	.0	.0	.3	1.7	1.3	.1	.0	.0	33	.1	3.3
3	.0	.0	.1	.7	3.3	1.5	.0	.0	.0	91	.0	5.8
2	.0	.0	.1	1.7	3.3	1.6	.0	.0	.0	140	.0	9.0
1	.0	.0	.1	2.1	7.7	1.0	.0	.0	.0	170	.1	10.8
0	.0	.0	.3	8.0	10.8	1.0	.0	.0	.0	213	.1	20.0
-1	.0	.0	.6	8.1	8.2	.3	.0	.0	.0	238	.0	13.3
-2	.0	.1	.4	6.5	2.8	.1	.0	.0	.0	161	.0	10.3
-3	.1	.1	1.9	4.7	.8	.1	.0	.0	.0	120	.0	7.7
-4	.0	.0	1.4	2.8	.4	.1	.0	.0	.0	74	.0	4.7
-5	.0	.1	.6	1.0	.2	.1	.0	.0	.0	38	.0	2.1
-6	.0	.1	.6	.4	.1	.0	.0	.0	.0	17	.0	1.1
-7/-8	.0	.2	.6	.3	.0	.0	.0	.0	.0	17	.0	1.1
-9/-10	.0	.1	.3	.0	.0	.0	.0	.0	.0	6	.0	.4
TOTAL	1	10	112	397	647	154	32	6	1	1560	.4	1356
PCT	.1	.6	7.2	38.3	41.5	9.9	2.1	.4	.1	100.0	.4	99.7

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
01	.0	.7	.0	.0	.0	.0	.7	.6	1.1	.0	.0	.0	.0	.0	1.7	
1-2	.0	2.9	2.3	.0	.0	.0	3.4	.0	8.1	3.1	.0	.0	.0	.0	11.9	
3-4	.0	.4	3.2	.0	.0	.0	3.9	.0	3.0	4.2	.0	.0	.0	.0	7.2	
5-6	.0	.4	1.6	.2	.0	.0	2.2	.0	.4	1.9	.2	.0	.0	.0	2.8	
7	.0	.2	.3	.8	.2	.0	1.4	.0	.1	.8	.3	.1	.0	.0	.9	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	6.5	7.6	.9	.2	.0	13.2	.6	12.7	10.1	.3	.1	.0	.0	23.9	

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
01	.4	.6	.0	.0	.0	.0	.9	.7	1.2	.0	.0	.0	.0	.0	1.8	
1-2	.0	8.1	1.4	.0	.0	.0	6.3	.0	3.1	.1	.0	.0	.0	.0	3.2	
3-4	.0	2.4	2.3	.0	.0	.0	4.9	.0	3.1	2.3	.0	.0	.0	.0	5.4	
5-6	.0	.6	1.0	.0	.0	.0	1.6	.0	.0	2.0	.0	.0	.0	.0	2.0	
7	.0	.0	.8	.2	.0	.0	1.0	.0	.0	.4	.0	.0	.0	.0	1.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	8.7	6.0	.2	.0	.0	13.3	.7	7.4	5.1	.4	.0	.0	.0	13.5	

JANUARY

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1863-1971

AREA 0010 FLORIANOPOLIS
26.63 49.7M

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND SPEED (KNOTS)	WIND SPEED (KNOTS)							TOTAL OBS		
	0-3	4-10	11-21	22-33	34-47	48+	MEAN			
00603	2.0	6.2	43.9	41.3	5.8	.5	-1	11.2	100.0	1866
06609	2.6	7.2	47.2	37.6	5.0	.4	.0	10.5	100.0	1119
12615	2.6	8.3	44.8	37.5	6.2	.3	-1	10.7	100.0	1986
18621	1.7	3.4	48.8	42.1	5.7	.2	.0	11.2	100.0	1203
TOT	1.9	4.7	2777	2447	337	.2	2	10.9		6174
PCT	2.3	6.9	43.0	39.6	5.8	.4	*	100.0		

TABLE 5

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

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD		
N	4.0	2.6	3.5	2.4		4.3
NE	9.6	5.1	7.8	4.3		4.1
E	3.3	3.2	5.5	3.6		4.3
SE	2.8	3.8	4.9	3.7		3.0
S	2.7	2.7	4.8	3.4		3.0
SW	1.1	1.4	1.8	1.3		4.9
W	.8	.3	.5	.3		3.7
NW	1.0	.4	2.3	1.1		3.3
VAR	.0	.0	.0	.0		.0
CALM	1.0	.4	.3	.3	1188	3.6
TOT OBS	239	239	371	243	1188	4.3
TOT PCT	28.3	20.0	31.2	20.9	100.0	

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, MH >4/8) AND OCCURRENCE OF MH <5/8 BY WIND DIRECTION											TOTAL OBS
	000	130	300	400	1000	2000	3500	3000	6500	8000+	MH <5/8 ANY HGT	
N	.1	.1	.8	.4	1.0	.8	.3	.2	.0	.2	9.3	
NE	.0	.8	.3	1.2	2.8	.8	.9	.2	.1	.4	20.1	
E	.0	.1	.3	1.4	1.9	1.3	.9	.0	.1	.1	11.1	
SE	.1	.0	.3	1.1	2.3	.5	.7	.4	.0	.1	9.3	
S	.0	.0	.1	2.0	2.3	.8	.3	.1	.0	.0	7.7	
SW	.1	.0	.2	.6	.6	.2	.9	.2	.0	.1	3.3	
W	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	1.3	
NW	.0	.0	.1	.8	.4	.4	.3	.2	.0	.1	2.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.1	.3	.0	.0	.1	.0	1.3	
TOT OBS	3	2	21	89	138	66	48	13	3	11	792	
TOT PCT	.3	.2	1.8	7.9	11.6	3.6	4.0	1.3	.3	.9	66.7	

TABLE 7

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

CEILING (FEET)	VSBY (MH)							
	>10	>3	>2	>1	>1/2	>1/4	>3000	>0
>8000	.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>5000	1.8	2.4	2.5	2.3	2.3	2.3	2.3	2.3
>3500	4.8	6.1	6.3	6.3	6.3	6.3	6.3	6.3
>2000	9.1	11.4	11.7	11.8	11.8	11.8	11.8	11.8
>1000	17.9	22.3	23.1	23.4	23.4	23.3	23.3	23.3
>600	23.3	29.7	30.6	31.0	31.0	31.1	31.1	31.1
>300	24.9	31.3	32.3	32.7	32.7	32.8	32.8	32.8
>150	25.0	31.9	32.3	32.9	32.9	32.9	32.9	32.9
>0	25.1	31.7	32.7	33.1	33.1	33.2	33.2	33.2
TOTAL	303	343	397	402	402	403	403	403

TOTAL NUMBER OF OBS: 1214

PCT FREQ MH <5/8: 66.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

n	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.2	10.7	16.9	13.7	7.9	5.8	7.5	7.7	12.8	.2	1322

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1863-1971

JANUARY

APEA 0010 FLORIANOPOLIS
26.65 45.7M

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	.0	.1	.1	.0	*	.0	.0	.7	
	NO PCP	*	*	.0	.0	.0	.0	.0	*	.0	.0	.1	
	TOT %	.1	*	.0	.0	.1	.1	.0	*	.0	.0	.7	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	*	.1	.1	.2	.1	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.2	.0	*	.1	*	.0	.0	.0	.0	.3	
	TOT %	*	.2	.1	.2	.2	*	.0	.0	.0	.0	.7	
2<5	PCP	.0	.0	.2	*	.3	.1	.0	.0	.0	.0	.7	
	NO PCP	.2	.4	.3	.1	.2	*	.1	.2	.0	.0	1.3	
	TOT %	.2	.4	.3	.1	.5	.2	.1	.2	.0	.0	2.0	
5<10	PCP	.4	.3	.3	1.1	.5	.3	.1	.2	.0	.0	3.3	
	NO PCP	2.0	3.3	2.3	3.3	2.0	1.3	.3	.8	.0	.3	17.4	
	TOT %	2.3	3.6	2.8	4.4	2.5	1.3	.4	1.0	.0	.3	20.9	
10+	PCP	.2	.3	.3	.3	.3	.1	.0	.1	.0	.0	1.7	
	NO PCP	8.9	20.8	13.0	11.7	9.8	4.0	1.4	3.4	.0	1.3	74.2	
	TOT %	9.1	21.1	13.4	11.9	10.1	4.1	1.4	3.4	.0	1.3	75.9	
TOT OBS												1652	
TOT PCT												11.9 27.3 16.8 16.7 13.3 9.9 1.9 4.6 .0 1.6 100.0	

TABLE 9

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

VSBY (MM)	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	*	
	4-10	*	*	*	*	*	*	.0	*	*	.0	.1	
	11-21	.0	*	*	.0	*	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	*	*	*	*	.0	*	*	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	*	*	*	*	.0	.0	.0	.0	.2	
	11-21	*	.1	.1	.1	.1	*	.0	.0	.0	.0	.5	
	22+	.0	*	*	.1	.1	*	.0	.0	.0	.0	.1	
	TOT %	*	.2	.2	.2	.2	.1	.0	.0	.0	.0	.8	
2<5	0-3	.0	.0	.0	.0	.1	*	*	.0	.0	.0	.1	
	4-10	.1	.1	.1	.2	.2	*	.0	.1	.0	.0	.7	
	11-21	.1	.3	.3	.1	.2	.1	.1	*	.0	.0	1.3	
	22+	.1	.1	.1	*	*	*	.0	.0	.0	.0	.4	
	TOT %	.3	.3	.3	.4	.3	.1	.1	.1	.0	.0	2.5	
5<10	0-3	.2	.2	.1	.2	*	.1	.0	.1	.0	.3	1.2	
	4-10	.9	1.9	.8	.8	.6	.4	.2	.7	.0	.0	6.3	
	11-21	1.2	2.2	.9	1.8	1.1	.3	.1	.2	.0	.0	7.9	
	22+	.1	.4	.2	.4	.2	.1	.0	.0	.0	.0	1.4	
	TOT %	2.4	4.7	2.0	3.1	2.0	1.1	.2	.9	.0	.3	16.8	
10+	0-3	.3	.6	.9	.8	.4	.4	.2	.3	.0	1.1	3.3	
	4-10	4.7	10.4	7.8	7.3	3.9	1.8	1.0	2.1	.0	.0	30.3	
	11-21	4.3	11.3	4.4	3.1	4.4	1.3	.3	.9	.0	.0	32.0	
	22+	.3	.6	.3	.7	.7	.3	*	*	.0	.0	3.2	
	TOT %	9.8	23.0	13.4	14.1	9.4	4.0	1.9	3.3	.0	1.1	79.7	
TOT OBS												3427	
TOT PCT												12.6 26.3 16.2 17.8 12.1 3.4 1.8 4.4 .0 1.4 100.0	

JANUARY

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1863-1971

AREL 0010 FLDRIANOPOLIS
26.65 43.7W

TABLE 10

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

HRUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.3	.3	2.0	8.2	11.9	4.4	3.7	1.0	.3	.7	33.2	66.8	295
06009	.4	.0	2.2	7.6	14.5	4.4	2.9	.7	.4	1.8	34.9	65.1	275
12015	.3	.3	1.5	7.1	8.3	6.8	5.0	1.8	.3	.6	32.0	68.0	338
18021	.0	.0	1.1	5.9	10.5	5.1	3.2	1.1	.3	.8	28.0	72.0	371
TOT	3	2	21	92	142	67	48	13	4	12	406	873	1279
PCT	.2	.2	1.6	7.2	11.1	5.2	3.8	1.2	.3	.9	31.7	68.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.1	.0	.9	2.5	18.5	78.0	985
06009	.4	.0	.4	2.7	16.4	80.0	679
12015	.2	.0	.7	2.8	18.0	78.4	1047
18021	.0	.0	1.2	1.7	14.2	82.9	767
TOT	6	0	28	83	590	2763	3474
PCT	.2	.0	.8	2.4	17.0	79.6	100.0

TABLE 12

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

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.4	2.9	13.6	22.3	64.1	273
06009	.4	2.7	11.9	23.0	63.1	260
12015	.3	2.3	11.1	21.9	67.0	324
18021	.0	1.1	7.8	21.3	70.9	337
TOT	3	27	132	273	809	1214
PCT	.2	2.2	10.9	22.3	68.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.2	.0	.1	.0	4	.3
85/89	.0	.0	.0	.2	.8	.8	.3	.0	30	2.3
80/84	.0	.1	.0	.3	1.1	4.3	7.0	2.1	193	14.9
75/79	.0	.0	.0	.5	3.7	16.0	24.6	17.2	879	62.0
70/74	.0	.0	.1	.8	3.9	5.1	3.8	4.2	239	19.3
65/69	.0	.0	.0	.1	.2	.2	.3	.2	1	.8
60/64	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	1	1	24	122	343	301	311	1303	100.0
PCT	.0	.1	.1	2.0	9.3	26.3	38.4	23.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.2	.0	.0	.0	.0	.1	.1	.0	.0
85/89	.5	1.0	.3	.1	.3	.2	.0	.0	.0	.0
80/84	2.2	3.7	2.2	1.6	.9	.4	.2	1.3	.0	.3
75/79	8.0	16.8	11.2	9.1	7.7	4.3	1.2	2.9	.0	.8
70/74	1.0	3.4	3.2	3.1	4.3	1.4	.2	.8	.0	.2
65/69	.1	.0	.0	.1	.5	.2	.1	.0	.0	.0
60/64	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
TOTAL	11.7	27.1	16.9	15.9	13.7	6.3	1.8	5.3	.0	1.3

TABLE 15

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

HRUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	82	80	76	71	69	64	76.0	1870
06009	84	81	79	75	71	68	63	75.1	1129
12015	93	83	83	77	72	69	62	77.4	1944
18021	92	88	84	78	73	70	65	78.3	1160
TOT	93	83	82	77	72	69	62	76.7	6103

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.3	6.6	20.7	39.8	31.4	84	334		
06009	.0	1.0	5.1	18.8	27.2	37.9	89	293		
12015	.0	2.7	8.1	29.3	42.6	17.1	81	369		
18021	.0	2.9	16.8	33.8	34.1	12.4	78	346		
TOT	0	28	125	349	518	322	82	1342		

JANUARY

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1863-1971

AREA 0010 FLORIANPOLIS
26.6S 45.7W

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	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	M FOG	WD FOG
17/19	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.0	.1	.0	.2	.0	5	.0	.3
9/10	.0	.0	.0	.1	.0	.0	.6	.1	.1	14	.0	.9
7/8	.0	.0	.0	.3	.4	.6	.5	.1	.0	31	.0	2.0
6	.0	.0	.0	.3	.4	.9	.3	.0	.0	30	.1	1.9
5	.0	.0	.0	.5	.8	1.2	.4	.0	.0	46	.0	2.9
4	.0	.0	.0	.3	1.7	1.3	.1	.0	.0	53	.1	3.3
3	.0	.0	.1	.7	3.5	1.5	.0	.0	.0	91	.0	5.8
2	.0	.0	.1	1.7	3.5	1.6	.0	.0	.0	140	.0	9.0
1	.0	.0	.1	2.1	7.7	1.0	.0	.0	.0	170	.1	10.8
0	.0	.0	.3	8.0	10.8	1.0	.0	.0	.0	213	.1	20.0
-1	.0	.0	.6	8.1	6.2	.3	.0	.0	.0	238	.0	18.3
-2	.0	.1	.4	6.9	2.8	.1	.0	.0	.0	161	.0	10.3
-3	.1	.1	1.9	4.7	.8	.1	.0	.0	.0	120	.0	7.7
-4	.0	.0	1.4	2.8	.4	.1	.0	.0	.0	74	.0	4.7
-5	.0	.1	.6	1.0	.2	.1	.0	.0	.0	39	.0	2.1
-6	.0	.1	.6	.4	.1	.0	.0	.0	.0	17	.0	1.1
-7/-8	.0	.2	.6	.3	.0	.0	.0	.0	.0	17	.0	1.1
-9/-10	.0	.1	.3	.0	.0	.0	.0	.0	.0	6	.0	.4
TOTAL	1	10	112	597	647	154	32	6	1	1560	4	1356
PCT	.1	.6	7.2	38.3	41.5	9.9	2.1	.4	.1	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

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

HGT	N							NE						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.6	1.1	.0	.0	.0	.0	1.7
1-2	.0	2.9	2.3	.0	.0	.0	5.4	.0	8.1	3.1	.0	.0	.0	11.9
3-4	.0	.4	3.2	.0	.0	.0	3.9	.0	3.0	4.2	.0	.0	.0	7.2
5-6	.0	.4	1.6	.2	.0	.0	2.2	.0	.4	1.9	.2	.0	.0	2.5
7	.0	.2	.3	.8	.2	.0	1.4	.0	.1	.8	.3	.1	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.3	7.6	.9	.2	.0	13.2	.6	12.7	10.1	.3	.1	.0	23.9

HGT	E							SE						
	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	.0	.0	.0	.0	.9	.7	1.2	.0	.0	.0	.0	1.8
1-2	.0	3.1	1.4	.0	.0	.0	4.5	.0	3.1	.1	.0	.0	.0	3.2
3-4	.0	2.4	2.3	.0	.0	.0	4.9	.0	3.1	2.3	.0	.0	.0	5.4
5-6	.0	.6	1.0	.0	.0	.0	1.6	.0	.0	2.0	.0	.0	.0	2.0
7	.0	.8	.8	.2	.0	.0	1.0	.0	.0	.4	.0	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0
13-16	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	8.7	6.0	.2	.0	.0	15.3	.7	7.4	5.1	.4	.0	.0	13.5

PERIOD: (OVER-ALL) 1963-1971

JANUARY

AREA 0010 FLORIANOPOLIS
28.85 45.7W

TABLE 18 (CONT)

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.3	.0	.0	.0	.0	.3	.0	.4	.0	.0	.0	.0	.4
1-2	.0	2.2	1.4	.0	.0	.0	3.6	.0	1.1	.2	.0	.0	.0	1.2
3-4	.0	2.3	3.0	.2	.0	.0	5.6	.0	.9	1.5	.1	.0	.0	2.5
5-6	.0	.2	3.3	.8	.0	.0	4.0	.0	.1	.9	.1	.0	.0	1.0
7	.0	.0	1.3	.2	.0	.0	1.7	.0	.0	.9	.4	.0	.0	.9
8-9	.0	.0	.7	.9	.0	.0	1.6	.0	.0	.1	.3	.0	.0	.8
10-11	.0	.0	.6	.8	.2	.0	1.1	.0	.0	.0	.1	.1	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.2	10.2	2.4	.2	.0	17.9	.0	2.3	9.1	1.1	.1	.0	6.7

HGT	M						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	.3
1-2	.0	.4	.3	.0	.0	.0	.7	.0	.9	.3	.0	.0	.0	1.3	1.3
3-4	.0	.4	.5	.0	.0	.0	1.0	.0	.9	.6	.0	.0	.0	1.5	1.5
5-6	.0	.2	.2	.0	.0	.0	.2	.0	.2	.4	.1	.0	.0	.7	.7
7	.0	.2	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.2	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	1.1	.0	.0	.0	2.0	.0	2.4	1.3	.1	.0	.0	3.9	96.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.3	4.9	.0	.0	.0	.0	10.3	10.3
1-2	.0	23.7	9.3	.0	.0	.0	33.0	33.0
3-4	.0	13.4	17.6	.2	.0	.0	31.2	31.2
5-6	.2	1.8	11.1	1.0	.0	.0	14.2	14.2
7	.0	.8	4.0	2.2	.2	.0	7.1	7.1
8-9	.0	.0	1.2	1.4	.0	.0	2.6	2.6
10-11	.0	.0	.8	.4	.2	.0	1.4	1.4
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.2	.0	.0	.0	.2	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.7	44.3	44.1	3.8	.4	.0	100.0	494

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	
<1	1.4	10.6	14.6	6.3	1.7	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	369	3
1-2	.2	1.9	7.8	10.6	6.1	1.4	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	299	3
3-4	.0	.3	4.3	4.3	3.3	1.3	.7	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	136	6
5-6	.0	.3	.4	1.1	.6	.6	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	6
7	.0	.0	.1	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
8-9	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	167	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1037	4
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1037	4
INDPT	3.7	3.6	4.5	2.3	.8	1.1	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1037	4
TOTAL	3.8	17.7	32.9	26.0	12.9	3.7	1.9	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1037	4
PCT	3.8	17.1	31.7	25.1	12.4	3.5	1.8	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1857-1973

AREA 0010 FLORIANOPOLIS
26.65 45.74

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.4	.5	.5	.0	.0	.0	.0	3.4	2.8	5.7	.5	.0	.8	.0	87.4
NE	1.8	.3	.6	.0	.0	.0	.0	2.7	1.3	4.1	.2	.0	.0	.0	91.6
E	1.8	3.1	1.6	.0	.0	.0	.0	6.5	2.5	3.8	.8	.0	.0	.0	86.4
SE	2.3	4.7	1.0	.0	.0	.0	.0	8.0	3.8	2.8	.9	.0	.0	.0	84.3
S	3.6	3.7	1.4	.0	.0	.0	.0	8.7	3.6	2.9	.0	.0	.4	.0	84.8
SW	6.4	3.9	2.2	.0	.0	.0	.0	12.1	4.6	2.9	.0	.9	.0	.0	79.6
W	3.5	.0	7.1	.0	.0	.0	.0	10.6	3.3	3.9	.0	.0	.0	.0	81.3
NW	5.2	2.3	.0	.0	.0	.0	.0	7.3	6.6	2.3	.0	.0	.0	.0	83.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	6.9	.0	.0	.0	.0	.0	6.9	.0	6.9	3.4	.0	.0	.0	82.8
TOT PCT	2.7	2.2	1.1	.0	.0	.0	.0	6.1	2.9	3.8	.4	.1	.2	.0	86.8
TOT OBS:	1702														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0603	2.1	2.8	1.8	.0	.0	.0	.0	6.7	3.4	10.8	.2	.0	.2	.0	79.1
0609	3.6	2.3	.5	.0	.0	.0	.0	6.3	4.4	4.9	.3	.0	.3	.0	83.9
1209	2.2	1.6	.8	.0	.0	.0	.0	4.6	1.8	.2	.6	.2	.0	.0	92.3
1821	3.3	2.1	1.2	.0	.0	.0	.0	6.3	2.1	.0	.3	.0	.2	.0	90.7
TOT PCT	2.7	2.2	1.1	.0	.0	.0	.0	6.0	2.9	3.8	.4	.1	.2	.0	86.8
TOT OBS:	1746														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47		00					03	06	09	12	15	18	21
N	.9	6.2	4.7	.9	.0	.0	.0	12.7	11.2		8.2	10.6	14.8	14.4	13.2	14.6	12.4	12.3
NE	1.3	12.0	11.1	2.0	.0	.0	.0	26.4	11.7		28.4	26.8	26.4	21.1	24.8	25.3	26.9	30.9
E	1.0	8.6	9.3	.5	.0	.0	.0	19.4	10.1		19.6	19.3	14.9	14.4	11.8	14.3	13.6	16.0
SE	1.2	8.8	6.3	.8	.0	.0	.0	16.8	10.7		18.2	18.8	16.1	18.2	13.8	15.3	17.4	13.6
S	1.1	4.8	4.7	1.0	.1	.0	.0	12.3	11.4		13.1	11.6	10.1	23.6	10.8	11.3	13.6	17.3
SW	.8	3.6	1.8	.4	.0	.0	.0	6.3	9.7		3.3	3.9	6.3	3.9	9.2	8.0	3.9	4.1
W	.4	1.6	.4	.0	.0	.0	.0	2.3	7.1		1.9	2.2	2.6	3.9	3.4	2.8	2.1	.0
NW	.6	2.9	1.2	.1	.0	.0	.0	4.7	8.4		3.0	3.8	3.6	2.2	3.9	6.0	4.2	3.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8							2.3	.0		2.0	2.7	3.3	2.2	3.1	2.2	1.9	1.8
TOT OBS	993	2978	2160	343	9	0	6083		10.3		1083	737	1071	43	1139	839	1094	33
TOT PCT	9.8	48.9	33.8	3.6	.1	.0			100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	06	12	18	21
N	3.4	6.5	2.6	.2	.0		12.7	11.2		9.2	14.7	14.9	12.4	
NE	3.7	14.7	3.6	.4	.0		26.4	11.7		27.8	24.2	23.0	27.1	
E	4.3	9.1	1.9	.1	.0		19.4	10.1		19.3	14.9	12.9	13.7	
SE	4.3	9.7	2.6	.2	.0		16.8	10.7		18.4	16.0	13.6	17.2	
S	3.3	6.3	2.3	.3	.0		12.3	11.4		12.6	10.7	11.1	13.7	
SW	2.4	3.1	1.0	.1	.0		6.3	9.7		4.9	6.2	6.7	3.8	
W	1.4	1.0	.1	.0	.0		2.3	7.1		2.0	2.6	3.2	2.0	
NW	2.0	2.4	.3	.0	.0		4.7	8.4		3.9	3.4	3.9	4.2	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	2.3						2.3	.0		2.3	3.2	2.7	1.9	
TOT OBS	1780	3213	1011	80	1	6083		10.3		1822	1116	1938	1149	
TOT PCT	28.3	32.8	16.6	1.3	.0			100.0		100.0	100.0	100.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(COVER-ALL) 1857-1973

AREA 0610 FLORIANOPOLIS
26.6S 53.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
0000	2.3	6.0	48.5	37.6	5.5	.1	.0	10.7	100.0	1822	
0600	3.2	7.3	50.0	33.8	5.2	.3	.0	10.1	100.0	1116	
1200	2.7	8.9	48.4	33.7	6.3	.1	.0	10.4	100.0	1998	
1800	1.9	6.2	49.6	37.0	5.1	.2	.0	10.7	100.0	1149	
TOT	194	441	2978	2100	344	?	0	10.3		6085	
PCT	2.3	7.2	48.9	35.5	5.4	.1	.0		100.0		

TABLE 4

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

WIND DIR	0-2	3-4	5-7	8 & 8/8	TOTAL OBS	MEAN CLOUD COVER
NE	11.9	7.0	6.8	3.8		3.7
E	3.9	2.4	4.1	1.8		4.3
SE	2.1	3.0	8.2	3.6		3.2
S	3.2	2.9	4.3	4.5		4.9
SW	1.5	1.8	1.9	1.7		4.7
W	.6	.9	.8	.7		3.0
NW	1.1	1.3	1.1	1.1		4.7
VAR	.0	.0	.0	.0		.0
CALM	.5	.4	.8	.7		4.4
TOT OBS	392	291	374	239	1296	4.4
TOT PCT	30.2	22.9	28.9	18.4	100.0	

TABLE 4

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

WIND DIR	CEILING HEIGHTS (FT, NH >4/8)											NH <5/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+			
N	.0	.0	.2	.8	1.0	.4	.3	.1	.1	.1	.1	10.0	
NE	.0	.0	.1	1.5	2.2	1.4	.9	.3	.0	.3	.3	22.8	
E	.1	.0	.2	.7	1.0	1.3	.2	.3	.0	.0	.0	8.1	
SE	.1	.2	.4	1.6	2.7	1.2	.6	.2	.0	.0	.0	8.6	
S	.0	.1	.1	1.3	2.0	1.0	.8	.2	.1	.1	.1	8.2	
SW	.0	.0	.0	.3	1.1	.6	.1	.1	.0	.1	.1	4.9	
W	.1	.0	.0	.2	.4	.1	.2	.1	.0	.0	.0	1.6	
NW	.1	.0	.0	.4	.4	.3	.2	.0	.0	.0	.0	3.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.2	.2	.2	.0	.0	.0	.0	.0	1.2	
TOT OBS	6	3	14	89	143	85	42	16	3	10	885	1296	
TOT PCT	.5	.2	1.1	6.9	11.0	6.6	3.2	1.2	.2	.8	68.3	100.0	

TABLE 7

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

CEILING (FEET)	VSBY (NH)								
	>10	>8	>6	>4	>3	>2	>1/2	>1/4	>50YD
>300	.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>400	1.5	2.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3
>500	4.3	5.3	5.7	5.7	5.7	5.7	5.7	5.7	5.7
>600	9.3	11.6	11.9	12.0	12.0	12.1	12.1	12.1	12.1
>1000	17.1	21.4	22.0	22.4	22.5	22.6	22.6	22.6	22.6
>1500	22.2	28.0	28.9	29.4	29.5	29.5	29.5	29.5	29.5
>2000	22.6	29.1	30.1	30.6	30.7	30.8	30.8	30.8	30.8
>3000	22.7	29.3	30.3	30.8	30.9	31.0	31.0	31.0	31.0
>4000	22.7	29.3	30.6	31.3	31.4	31.4	31.4	31.4	31.4
TOTAL	297	383	400	409	410	411	411	411	411

TOTAL NUMBER OF OBS: 1307

PCT FREQ NH <5/8: 68.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
9.3	16.7	18.2	13.8	9.3	5.4	7.4	7.3	12.0	.4	1423

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1857-1973

AREA 0010 FLORIANOPDLIS
26.05 43.7H

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.1	.0	.0	.0	.6	.0	.0	.0	.1	.1
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
1/2<1	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
1<2	PCP	.0	.1	.1	.1	.0	.0	.0	.0	.0	.1	.4	.4
	NO PCP	.0	.1	.0	.1	.0	.0	.1	.1	.0	.0	.0	.4
	TOT %	.0	.2	.1	.2	.0	.0	.1	.1	.0	.1	.4	.8
2<5	PCP	.0	.1	.2	.1	.4	.1	.0	.1	.0	.0	1.0	1.0
	NO PCP	.3	.3	.1	.1	.1	.1	.1	.1	.0	.0	1.2	1.2
	TOT %	.4	.4	.3	.2	.5	.1	.1	.2	.0	.0	2.2	2.2
5<10	PCP	.2	.2	.4	.9	.4	.4	.1	.2	.0	.1	2.8	2.8
	NO PCP	2.3	4.3	2.3	2.7	1.8	.8	.8	1.1	.0	.2	16.0	16.0
	TOT %	2.7	4.5	2.7	3.6	1.9	1.2	.7	1.3	.0	.2	18.8	18.8
10+	PCP	.2	.4	.1	.1	.4	.3	.1	.1	.0	.0	1.8	1.8
	NO PCP	9.3	23.9	9.7	11.0	10.9	3.0	1.5	3.5	.0	1.4	76.2	76.2
	TOT %	9.5	24.3	9.8	11.1	11.4	3.4	1.7	3.6	.0	1.4	78.0	78.0
TOT OBS													1999
TOT PCT													12.6 29.6 12.9 15.1 13.0 6.7 2.3 3.1 .0 1.7 100.0

TABLE 9

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

VSBY (MM)	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	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.1	.0	.1	.0	.0	.0	.0	.1	.0	.4	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.0	.1	.0	.0	.0	.0	.1	.0	.4	.4
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.1	.2	.1	.0	.0	.0	.0	.0	.7	.7
	11-21	.3	.2	.1	.2	.2	.0	.0	.1	.0	.0	1.2	1.2
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.4	.4
	TOT %	.4	.3	.3	.4	.4	.1	.0	.1	.0	.0	2.4	2.4
5<10	0-3	.2	.2	.2	.0	.1	.0	.1	.1	.0	.2	1.1	1.1
	4-10	.0	1.3	.8	1.0	.2	.3	.3	.7	.0	.0	6.1	6.1
	11-21	.8	1.3	1.2	1.2	.7	.3	.1	.2	.0	.0	6.0	6.0
	22+	.2	.4	.2	.7	.4	.1	.0	.0	.0	.0	1.9	1.9
	TOT %	2.1	3.6	2.4	2.8	1.7	.9	.4	.9	.0	.2	13.1	13.1
10+	0-3	.5	1.0	.7	1.2	1.2	.6	.4	.5	.0	1.9	8.0	8.0
	4-10	3.6	11.2	7.7	7.0	3.3	3.0	1.1	2.2	.0	.0	43.7	43.7
	11-21	3.7	8.8	3.2	4.9	3.8	1.7	.4	.8	.0	.0	27.6	27.6
	22+	.0	1.0	.1	.2	.7	.1	.0	.1	.0	.0	2.9	2.9
	TOT %	10.3	22.0	11.8	13.3	11.0	6.1	1.9	2.6	.0	1.9	81.9	81.9
TOT OBS													3305
TOT PCT													12.8 26.1 14.7 16.7 13.1 7.1 2.3 4.8 .0 2.3 0.0

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1837-1973

AREA 0010 FLORIANPOLIS
26.8S 45.7W

TABLE 10

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

HOUR (GMT)	000	190	300	400	1000	2000	3000	5000	6000	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000Z	.6	.3	.9	7.6	11.2	7.0	2.1	.9	.3	1.8	32.7	67.3	330
0600Z	1.0	.3	1.3	6.4	11.1	4.7	4.0	.0	.0	.3	29.3	70.7	297
1201Z	.0	.0	.0	6.3	9.1	7.8	3.1	2.3	.0	.3	29.8	70.2	306
1802Z	.3	.3	1.6	6.3	10.4	4.9	3.8	1.4	.3	.3	30.0	70.0	367
TOT	6	3	16	92	143	83	45	17	3	10	420	900	1300
PCT	.4	.2	1.2	6.7	10.4	6.2	3.3	1.2	.2	.7	30.4	69.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
0000Z	.0	.1	.3	2.3	17.8	79.3	996
0600Z	.1	.0	.7	2.4	19.2	78.3	713
1201Z	.1	.0	.3	2.0	14.1	83.3	1099
1802Z	.0	.3	.3	2.7	19.7	86.1	741
TOT	2	3	16	94	341	2903	3349
PCT	.1	.1	.3	2.4	13.2	81.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <500	<600 <1	<1000 <3	1000+ <ANS>	NH <5/8 AND 5+	TOTAL OBS
0000Z	.6	1.9	11.3	23.2	63.3	310
0600Z	1.1	3.2	11.6	20.0	68.4	283
1201Z	.3	1.1	10.2	21.8	68.0	362
1802Z	.3	2.9	10.9	20.6	68.6	330
TOT	7	29	143	280	884	1307
PCT	.3	2.2	10.9	21.4	67.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.1	.0	.0	.0	.0	.0	.0	1	.1
90/94	.0	.0	.0	.6	.3	.1	.0	.0	3	.4
85/89	.0	.0	.0	.2	.3	1.0	.3	.0	29	1.8
80/84	.0	.0	.0	.4	1.8	6.2	9.8	2.4	296	22.6
75/79	.0	.0	.0	1.6	9.4	16.6	26.0	14.2	836	63.8
70/74	.0	.0	.0	.2	2.1	3.4	3.1	2.2	143	10.9
65/69	.0	.0	.0	.0	.0	.3	.2	.2	6	.3
TOTAL	0	1	0	30	130	383	518	248	1310	100.0
PCT	.0	.1	.0	2.3	9.7	29.2	39.3	18.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
90/94	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0
85/89	.1	.3	.2	.1	.2	.2	.2	.1	.0	.0
80/84	4.1	9.4	1.8	1.3	2.1	.8	.3	1.4	.0	.6
75/79	8.0	16.4	8.9	11.6	9.1	4.2	1.4	3.3	.0	.8
70/74	.4	1.3	1.4	3.2	2.4	1.3	.3	.2	.0	.2
65/69	.1	.1	.0	.1	.0	.1	.1	.1	.0	.0
TOTAL	12.8	28.0	12.8	16.8	13.9	6.7	2.8	3.1	.0	1.6

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	81%	1%	MIN	MEAN	TOTAL OBS
0000Z	67	63	61	77	72	69	63	77.0	1799
0600Z	66	61	60	77	73	68	63	76.3	1111
1201Z	91	86	83	78	73	69	63	73.3	1930
1802Z	93	88	85	79	74	70	64	79.2	1090
TOT	93	86	83	78	73	69	63	77.7	5930

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	.9	6.8	27.6	40.9	23.9	83	322		
0600Z	.0	.3	4.4	23.0	48.3	23.0	83	296		
1201Z	.0	3.2	1.3	26.7	41.3	17.3	80	371		
1802Z	.0	4.3	14.9	38.6	31.0	10.9	77	329		
TOT	0	31	134	391	334	238	81	1348		

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1857-1973

AREA 0010 FLORIANOPOLIS
25.0S 45.7W

TABLE 17

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

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	83 86	89 92	>92	TOT	N FOG	NO FOG
14/14	.0	.0	.0	.0	.0	.1	.1	.0	3	.0	.2
11/13	.0	.0	.0	.1	.3	.1	.3	.0	10	.0	.6
9/10	.0	.0	.1	.1	.1	.1	.1	.1	8	.0	.5
7/8	.0	.0	.0	.2	.3	.3	.1	.0	11	.0	1.0
6	.0	.1	.0	.4	.3	.3	.1	.0	21	.0	1.4
5	.0	.0	.1	.6	1.0	.3	.0	.0	30	.0	1.9
4	.0	.0	.2	.8	1.4	.1	.0	.0	38	.0	2.5
3	.0	.1	.3	1.7	2.2	.1	.0	.0	68	.1	4.3
2	.0	.0	.8	3.8	3.0	.0	.0	.0	110	.1	7.4
1	.0	.0	.9	6.3	2.9	.1	.0	.0	151	.0	9.8
0	.0	.2	3.2	12.7	2.4	.0	.0	.0	286	.0	18.3
-1	.0	.1	4.9	11.8	.8	.0	.0	.0	273	.1	17.0
-2	.0	.4	6.4	6.1	.8	.0	.0	.0	208	.0	13.8
-3	.0	.6	3.2	3.3	.1	.0	.0	.0	142	.0	9.2
-4	.1	.8	3.1	1.0	.0	.0	.0	.0	77	.0	3.0
-5	.1	.7	1.7	.7	.0	.0	.0	.0	50	.0	3.2
-6	.0	.3	1.0	.2	.0	.0	.0	.0	23	.0	1.3
-7/-8	.1	.3	.8	.2	.0	.0	.0	.0	24	.0	1.6
-9/-10	.1	.0	.1	.0	.0	.0	.0	.0	2	.0	.1
-11/-12	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	5	58	444	773	227	29	9	1	1946	4	1342
PCT	.3	3.8	28.7	50.0	14.7	1.9	.6	.1	100.0	.3	99.7

PERIOD: (OVER-ALL) 1943-1973

TABLE 18

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

HGT	N						PCT	NE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.3	1.2	.3	.0	.0	.0	1.3	.6	1.6	.0	.0	.0	.0	.0	2.2
1-2	.0	3.2	1.7	.0	.0	.0	6.9	.9	7.3	2.3	.0	.0	.0	.0	10.4
3-4	.1	.7	2.6	.1	.0	.0	3.6	.0	3.4	4.3	.0	.0	.0	.0	7.8
5-6	.0	.3	1.0	.2	.0	.0	1.6	.0	1.3	3.0	.2	.0	.0	.0	4.7
7	.0	.0	.2	.3	.0	.0	.3	.0	.3	1.7	.2	.0	.0	.0	2.2
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	.0	.0	.0	.0	.3
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.6	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	7.4	3.7	.8	.0	.0	14.4	1.1	4.1	12.2	.3	.0	.0	.0	27.0

HGT	E						PCT	SE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.2	.3	.0	.0	.0	.0	.6	.2	1.0	.0	.0	.0	.0	.0	1.3
1-2	.2	4.7	.7	.0	.0	.0	5.6	.0	4.0	.8	.0	.0	.0	.0	4.9
3-4	.2	2.3	1.0	.0	.0	.0	3.6	.2	2.0	2.7	.0	.0	.0	.0	4.8
5-6	.0	.0	1.2	.0	.0	.0	1.2	.0	.4	2.1	.0	.0	.0	.0	2.3
7	.0	.4	.8	.4	.0	.0	1.6	.0	.2	.1	.2	.0	.0	.0	.3
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.8	.0	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.2
17-19	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	7.0	3.9	.7	.0	.0	13.1	.3	7.6	3.9	1.4	.0	.0	.0	13.3

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY
TABLE 18 (CONT)

AREA 0010 FLORIANOPOLIS
26.63 49.74

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

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.3	1.2	.1	.0	.0	.0	1.8	.4	.0	.0	.0	.0	.0	.0	.4	
1-2	.3	2.9	.8	.0	.0	.0	4.0	.2	2.7	.6	.0	.0	.0	.0	3.5	
3-4	.0	1.8	1.3	.0	.0	.0	3.1	.0	.8	.7	.0	.0	.0	.0	1.5	
5-6	.0	.3	2.6	.2	.0	.0	3.1	.0	.8	.6	.0	.0	.0	.0	.6	
7	.0	.0	.3	.2	.0	.0	.7	.0	.0	.4	.0	.0	.0	.0	.4	
8-9	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	
10-11	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.4	.0	.0	.0	.4	
12	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	6.3	5.4	1.0	.3	.0	14.1	.3	3.8	2.3	.4	.0	.0	.0	6.9	

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.0	.2	.0	.0	.0	.0	.2	.5	.4	.0	.0	.0	.0	.0	.9		
1-2	.0	.3	.2	.0	.0	.0	.5	.2	1.3	.4	.0	.0	.0	.0	2.1		
3-4	.0	.3	.4	.0	.0	.0	.7	.0	.8	.3	.0	.0	.0	.0	1.1		
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.0	.2		
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	1.0	.9	.0	.0	.0	1.9	.8	2.8	.9	.0	.0	.0	.0	4.3		

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	.0	5.9	.2	.0	.0	.0	12.3	883
1-2	6.4	20.1	7.3	.0	.0	.0	37.2	
3-4	.3	12.3	13.0	.2	.0	.0	26.0	
5-6	.0	2.8	10.7	.3	.0	.0	14.1	
7	.0	.4	3.4	1.2	.0	.0	5.7	
8-9	.0	.0	.3	1.6	.0	.0	2.1	
10-11	.0	.0	.3	.3	.2	.0	1.2	
12	.0	.0	.0	.2	.2	.0	.4	
13-16	.0	.0	.2	.4	.2	.0	.7	
17-19	.0	.0	.2	.0	.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	8.5	50.0	36.3	4.6	.3	.0	100.0	362

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
46	2.5	12.7	11.7	7.0	1.8	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	404	3
6-7	.0	1.0	10.3	8.7	4.1	2.0	.3	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	313	3
8-9	.0	.4	2.3	4.3	2.8	1.6	1.4	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	144	6
10-11	.0	.1	.4	.4	.8	.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	8
12-13	.0	.0	.3	.1	.2	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	8
313	.0	.0	.0	.2	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
INDOT	2.8	3.7	3.9	1.4	1.8	1.3	.6	.2	.3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	174	4
TOTAL	38	203	318	241	127	81	41	11	10	2	0	0	0	1	0	0	0	0	0	1093	4
PCT	3.3	18.7	29.0	22.0	11.6	7.4	3.7	1.0	.9	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1855-1973

MARCH

AREA 0010 FLORIANOPOLIS
26.85 49.74

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	LYMR FRZN PCPN	HAIL	PCPN AT GS TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.9	1.9	.2	.0	.0	.0	.0	6.0	.4	3.2	.0	.0	.0	.0	90.7
NE	1.9	1.9	.0	.0	.0	.0	.0	4.0	2.2	2.0	.4	.0	.4	.0	91.0
E	2.2	2.1	.3	.0	.0	.0	.0	4.8	3.1	1.5	.0	.0	.0	.0	90.6
SE	3.2	3.4	1.6	.0	.0	.0	.0	10.2	4.5	1.2	.3	.0	.0	.6	83.3
S	2.7	4.1	1.3	.0	.0	.0	.0	8.2	3.2	.9	.0	.0	.4	.0	85.3
SW	4.2	1.1	1.3	.0	.0	.0	.0	3.9	2.1	3.2	.0	.0	.0	.0	88.6
W	4.6	4.1	1.0	.0	.0	.0	.0	9.7	.0	3.6	.0	.0	.0	.0	84.7
NW	1.8	.0	4.8	.0	.0	.0	.0	6.6	.0	4.8	.0	.0	2.4	.0	87.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.0	.0	.0	4.3	.0	82.6
TOT PCT	2.7	2.8	1.0	.0	.0	.0	.0	6.4	2.9	2.1	.2	.0	.3	.1	88.1
TOT OBS:	1846														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT GS TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	3.9	2.2	1.4	.0	.0	.0	.0	7.3	1.8	4.1	.2	.0	.2	.2	85.9
0600	3.0	2.8	1.4	.0	.0	.0	.0	7.2	4.0	4.9	.2	.0	.0	.2	83.6
1200	1.5	4.1	.4	.0	.0	.0	.0	6.0	2.3	.0	.2	.0	.8	.0	90.3
1800	2.3	1.8	.7	.0	.0	.0	.0	4.8	.2	.2	.0	.0	.0	.0	91.6
TOT PCT	2.7	2.8	1.0	.0	.0	.0	.0	6.4	2.9	2.2	.2	.0	.3	.1	88.0
TOT OBS:	1878														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-9	10-19	20-29	30-39	40-49	48+				00	03	06	09	12	15	18	21
N	.7	3.9	4.0	.3	.0	.0	11.6	10.4	6.2	9.6	12.7	19.7	14.7	14.3	9.9	10.2
NE	1.2	12.3	12.4	1.0	.0	.0	26.9	11.3	24.7	29.4	27.8	30.3	29.3	24.4	28.2	19.3
E	.9	9.0	3.8	.7	.2	.1	16.3	10.9	20.3	19.2	16.4	19.4	13.7	13.8	15.4	17.6
SE	.8	7.4	6.7	1.7	.2	.1	17.3	12.3	20.2	18.3	19.4	10.1	16.6	15.7	17.3	16.2
S	.8	3.6	4.0	1.3	.0	.0	12.3	12.3	13.7	10.2	11.2	10.6	11.3	12.2	15.2	23.6
SW	.3	3.1	2.9	1.1	.0	.0	7.6	12.7	6.2	6.6	6.9	3.3	8.6	10.3	7.2	4.3
W	.4	1.3	.7	.2	.0	.0	2.6	9.8	1.3	2.0	3.3	4.3	3.8	4.0	2.4	3.4
NW	.4	1.8	.7	.1	.0	.0	2.9	9.1	1.8	2.4	3.2	4.3	4.3	3.3	2.7	1.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6						1.8	.0	1.4	2.1	3.1	.0	1.7	1.9	1.1	.0
TOT OBS	481	3141	2389	433	33	8	6483	11.2	1231	893	1187	47	1202	930	1217	44
TOT PCT	7.2	47.0	38.7	6.3	.3	.1	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40				00	03	06	09	12	15	18	21
N	3.0	7.0	1.3	.0	.0	11.6	10.4	8.7	13.0	14.6	9.9		
NE	3.6	16.1	3.1	.1	.0	26.9	11.3	27.7	27.9	24.8	27.9		
E	4.3	9.3	2.4	.1	.2	16.3	10.9	20.0	16.4	13.7	15.3		
SE	3.8	9.2	3.4	.7	.1	17.3	12.3	19.3	15.2	16.2	17.3		
S	2.6	6.6	3.0	.3	.0	12.3	12.3	12.3	11.2	11.7	15.3		
SW	1.7	3.7	2.0	.3	.0	7.6	12.7	6.4	6.8	9.3	7.7		
W	1.1	1.3	.4	.0	.0	2.6	9.8	1.6	3.3	3.9	2.4		
NW	1.1	1.3	.3	.0	.0	2.9	9.1	2.0	3.2	3.9	2.6		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.8					1.8	.0	1.7	3.0	1.8	1.0		
TOT OBS	1667	3669	1207	107	31	6483	11.2	2036	1234	2132	1261		
TOT PCT	24.9	54.9	19.1	1.6	.3	100.0		100.0	100.0	100.0	100.0		

MARCH

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1859-1973

AREA 0010 FLORIANOPOLIS
26.6S 45.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT PREC	TOTAL OBS
				11-21	22-29	30-47	48+			
0000Z	1.7	4.8	48.2	37.6	6.7	.7	.1	11.3	100.0	2096
0600Z	3.0	4.8	49.6	36.1	6.7	.6	.1	10.9	100.0	1234
1201Z	1.0	6.2	45.3	39.7	6.7	.3	.1	11.2	100.0	2132
1802Z	1.0	3.6	48.8	41.2	6.1	.5	.2	11.3	100.0	1261
TOT	1.8	3.9	31.41	29.85	6.5	.5	.1	11.2		6683
PCT	1.8	3.4	47.0	38.7	6.5	.5	.1	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	4.4	6.8	6.1	3.3	3.9	3.9
E	4.6	3.3	6.7	2.7	4.5	4.5
SE	4.0	3.1	6.3	4.0	3.0	3.0
S	3.3	3.2	3.5	3.5	4.7	4.7
SW	2.1	1.3	2.1	1.2	4.4	4.4
W	.9	.4	.7	.8	4.5	4.5
NW	.9	.3	.8	.4	4.2	4.2
VAR	.0	.0	.0	.0	.0	.0
CALM	.4	.1	.6	.1	4.4	4.4
TOT OBS	413	300	443	231	1417	4.4
TOT PCT	29.3	21.6	31.4	17.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, MM >4/8)
AND OCCURRENCE OF NH <3/8 BY WIND DIRECTION

WIND DIR	000	150	300	400	1000	2000	3900	5000	6500	8000+	NH <3/8	TOTAL ANY HGT	TOTAL OBS
N	.0	.0	.1	.6	1.0	.7	.1	.3	.1	.1	.1	8.9	
NE	.1	.0	.3	.7	2.0	1.6	1.1	.4	.2	.2	.2	21.2	
E	.1	.0	.2	1.0	2.0	1.3	.6	.1	.0	.1	.1	10.9	
SE	.1	.1	.3	1.3	2.1	1.6	1.2	.3	.1	.2	.2	9.8	
S	.0	.0	.6	1.0	1.1	1.1	.3	.1	.2	.0	.0	9.0	
SW	.1	.0	.1	.2	.7	.3	.1	.0	.0	.0	.0	4.9	
W	.0	.0	.0	.2	.0	.3	.1	.1	.0	.0	.0	2.0	
NW	.0	.0	.0	.0	.2	.3	.1	.0	.0	.0	.0	1.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.3	.1	.1	.1	.0	.0	.0	.0	.6	
TOT OBS	4	2	26	79	132	104	34	18	8	8	8	980	1417
TOT PCT	.3	.1	1.8	5.6	9.3	7.3	3.4	1.3	.6	.6	.6	69.2	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>8	>6	>4	>1/2	>1/4	>3000	>0
>8000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>3000	2.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4
>2000	4.1	5.0	6.1	6.1	6.1	6.1	6.1	6.1
>1000	9.1	13.0	13.3	13.7	13.7	13.7	13.7	13.7
>400	13.8	21.8	22.7	22.8	22.8	22.8	22.8	22.8
>300	19.7	27.1	28.1	28.3	28.3	28.3	28.3	28.3
>150	20.9	28.7	29.8	29.8	29.8	29.8	29.8	29.8
>0	21.0	28.8	29.5	29.5	29.5	29.5	29.5	29.5
TOTAL	21.2	29.1	30.2	30.6	30.6	30.6	30.6	30.6

TOTAL NUMBER OF OBS: 1434

PCT FRG NH <3/8: 69.4

TABLE 7A

PERCENTAGE FRG OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
0.7	16.7	18.9	13.0	10.2	6.1	6.8	7.3	11.6	.1	1311

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1859-1973

MARCH

AREA 0010 FLORIANOPOLIS
26.05 45.7M

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2
	TOT %	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2
2<5	PCP	.2	.1	.0	.1	.1	.0	.0	.1	.0	.0	.0	.7
	NO PCP	.1	.3	.2	.1	.1	.0	.2	.0	.0	.0	.0	1.0
	TOT %	.3	.4	.2	.2	.2	.0	.2	.1	.0	.0	.0	1.6
5<10	PCP	.1	.6	.5	1.2	.7	.2	.1	.1	.0	.0	.0	3.4
	NO PCP	1.0	4.4	3.9	3.3	3.3	1.4	.4	.5	.0	.0	.5	18.9
	TOT %	1.2	5.0	4.4	4.7	3.9	1.5	.5	.6	.0	.0	.5	22.3
10<	PCP	.2	.2	.2	.6	.4	.2	.2	.0	.0	.0	.0	2.1
	NO PCP	9.6	20.3	11.8	12.7	10.0	4.7	1.8	1.6	.0	.0	.8	73.9
	TOT %	9.8	20.7	12.0	12.3	10.4	4.9	2.0	1.6	.0	.0	.8	75.6
TOT OBS													1843
TOT PCT		11.3	26.3	16.7	16.2	14.7	6.4	2.7	2.3	.0	1.2	100.0	

TABLE 9

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

VSBY (MM)	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	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.5
2<5	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
	4-10	.1	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.7
	11-21	.2	.3	.1	.1	.1	.1	.0	.0	.0	.0	.0	1.0
	22+	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.3
	TOT %	.4	.6	.3	.3	.3	.1	.1	.1	.0	.0	.0	2.2
5<10	0-3	.0	.2	.1	.1	.1	.1	.1	.0	.0	.4	.0	1.1
	4-10	.8	1.7	1.2	1.0	1.0	.3	.3	.3	.0	.0	.0	6.9
	11-21	.7	2.0	1.4	1.7	.8	.3	.1	.2	.0	.0	.0	7.2
	22+	.1	.2	.2	.7	.8	.2	.1	.0	.0	.0	.0	1.8
	TOT %	1.6	4.1	2.9	3.5	2.8	1.1	.5	.5	.0	.4	.0	17.0
10<	0-3	.5	.8	.7	.7	.3	.3	.2	.0	1.2	.0	.0	5.2
	4-10	5.7	10.7	7.2	6.1	4.0	2.2	.9	1.3	.0	.0	.0	38.1
	11-21	4.3	11.3	6.4	5.1	3.8	2.6	.8	.4	.0	.0	.0	32.3
	22+	.2	.7	.3	1.0	1.2	.9	.0	.1	.0	.0	.0	4.4
	TOT %	10.7	23.6	12.6	12.9	9.3	6.1	1.8	2.0	.0	1.2	.0	80.2
TOT OBS													3922
TOT PCT		12.6	28.4	16.0	16.9	12.1	7.3	2.4	2.6	.0	1.6	100.0	

MARCH

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1853-1973

AREA 0010 FLORIANPOLIS
26.65 45.74

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <3/8 BY HOUR

HR	000	100	200	300	400	500	600	700	800	900	1000	TOTAL	NH <3/8	TOTAL
(GMT)	149	209	309	409	509	609	709	809	909	1009	1109	1209	ANY HGT	DBS
0000	.8	.0	1.9	5.1	8.6	6.8	3.3	.3	.8	1.1	28.9	71.1	370	
0600	.0	.3	.9	7.1	10.1	6.5	3.3	1.2	.6	.3	30.2	69.8	338	
1200	.0	.3	2.5	5.0	8.3	9.8	3.3	1.5	.8	.8	32.2	67.8	397	
1800	.3	.0	1.6	4.4	9.3	6.8	4.6	1.9	.0	.0	28.7	71.3	368	
TOT	3	2	26	79	133	109	34	18	8	8	442	1029	1471	
PCT	.3	.1	1.8	5.4	9.0	7.4	3.7	1.2	.5	.5	30.0	70.0	100.0	

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL
(GMT)							DBS
0000	.1	.2	.4	2.4	18.4	78.5	1181
0600	.4	.0	.8	2.3	19.0	77.9	799
1200	.0	.1	.8	3.0	16.7	80.7	1187
1800	.0	.0	.8	3.0	13.9	83.6	813
TOT	4	3	19	86	676	3188	3986
PCT	.1	.1	.8	2.2	17.1	80.1	100.0

TABLE 12

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

HR	<1/2	<100	<1000	1000+	NH <3/8	TOTAL
(GMT)	<300	<1	<5	ANDS+	AND 5+	DBS
0000	.8	2.8	9.7	20.3	70.0	360
0600	.0	1.2	10.4	21.0	68.6	328
1200	.0	2.8	9.0	24.2	66.8	389
1800	.6	2.2	7.8	21.3	70.9	357
TOT	3	33	132	312	990	1434
PCT	.3	2.3	9.2	21.8	69.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
F									DBS	FREQ
00/84	.0	.0	.0	.1	.1	.0	.0	.0	2	.1
03/89	.0	.0	.0	.0	.3	.8	.1	.1	21	1.4
06/84	.0	.0	.0	.2	1.4	3.8	7.6	1.4	238	18.2
09/79	.0	.0	.1	2.3	7.1	17.3	25.1	12.3	948	84.3
12/74	.0	.0	.1	1.0	3.9	4.1	3.0	3.8	239	17.8
15/69	.0	.0	.0	.1	.1	.1	.1	.1	6	.4
TOTAL	0	0	3	34	188	408	360	239	1478	100.0
PCT	.0	.0	.2	3.7	12.8	27.7	38.0	17.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

HR	N	NE	E	SE	S	SW	W	NW	VAR	CALM
0000	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
0600	.1	.9	.2	.1	.1	.0	.0	.0	.0	.0
1200	3.3	7.0	1.8	1.3	1.1	.3	.3	.3	.0	.4
1800	6.4	13.8	12.3	13.4	8.7	4.2	1.3	1.3	.0	.7
TOT	1.0	2.0	3.0	4.7	4.3	1.8	.8	.1	.0	.3
PCT	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0
TOT	10.9	23.8	17.3	19.8	14.5	6.3	2.3	1.8	.0	1.4

TABLE 15

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

HR	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL
(GMT)									DBS
0000	90	82	81	77	72	69	63	74.5	3039
0600	84	81	80	76	71	68	64	73.9	1231
1200	92	86	83	78	73	70	64	77.8	2058
1800	84	80	84	78	73	69	64	78.4	1208
TOT	94	85	82	77	72	69	63	77.2	6336

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										DBS
0000	.0	2.0	9.5	24.4	40.3	23.6	8.2	4.0	82	402
0600	.0	2.0	10.3	21.9	42.9	21.7	8.2	3.6	82	343
1200	.0	1.7	15.3	30.2	35.4	15.2	7.9	4.0	79	407
1800	.0	9.1	15.6	34.3	35.8	8.4	8.4	3.6	77	364
TOT	0	39	190	414	569	246	80	1496		

MARCH

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1855-1973

AREA 0010 FLORIANOPOLIS
26.63 45.74

TABLE 17

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

AIR-SEA TMP DIF	65	69	73	77	81	85	89	TGT	N	NO FOG
11/13	.0	.0	.0	.0	.1	.1	.1	3	.0	.2
7/10	.0	.0	.0	.1	.0	.1	.2	7	.0	.4
7/8	.0	.1	.0	.1	.2	.4	.0	12	.0	.7
6	.0	.0	.1	.2	.1	.2	.0	9	.0	.6
5	.0	.0	.2	.7	1.0	.1	.0	26	.0	1.6
4	.0	.0	.2	.7	1.0	.2	.0	39	.0	2.2
3	.0	.0	.1	1.5	1.3	.1	.0	51	.0	3.1
2	.0	.1	1.1	3.0	2.8	.1	.0	129	.0	7.9
1	.0	.0	2.2	6.3	1.3	.1	.0	164	.1	10.0
0	.1	.3	4.2	12.0	.9	.0	.0	283	.0	17.4
-1	.0	.2	3.7	9.4	.6	.0	.0	262	.1	16.0
-2	.0	.3	7.1	3.9	.2	.0	.0	219	.0	13.8
-3	.0	.9	6.2	3.0	.1	.0	.0	163	.0	10.0
-4	.0	.7	4.3	.9	.1	.0	.0	100	.0	6.2
-5	.0	1.0	3.4	.9	.0	.0	.0	86	.0	3.3
-6	.0	.7	1.1	.1	.0	.0	.0	31	.0	1.0
-7/-8	.0	1.0	1.1	.1	.0	.0	.0	36	.0	2.2
-9/-10	.0	.1	.1	.0	.0	.0	.0	3	.0	.2
-11/-13	.1	.2	.0	.0	.0	.0	.0	4	.0	.2
TOTAL	2	91	604	743	138	21	4	1623	3	1620
PCT	.1	3.6	37.2	49.8	9.7	1.3	.2	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

HGT	N					PCT	NE					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
41	.2	.9	.0	.0	.0	1.1	.9	2.1	.4	.0	.0	3.4
1-2	.1	2.7	.6	.0	.0	3.3	.3	3.7	3.3	.0	.0	9.3
3-4	.0	1.3	3.6	.0	.0	4.1	.0	4.3	4.2	.0	.0	8.8
5-6	.0	.2	1.3	.0	.0	1.6	.0	1.0	2.6	.0	.0	3.3
7	.0	.2	.5	.1	.0	.8	.0	.4	3.3	.2	.0	2.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.2	.0	.0	.2	.0	.0	.2	.0	.0	.2
12	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.6	4.4	.1	.0	11.3	1.4	13.7	13.0	.6	.0	28.8

HGT	E					PCT	SE					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
41	.1	1.3	.0	.0	.0	1.4	.1	.9	.0	.0	.0	1.4
1-2	.3	4.0	.0	.0	.0	4.7	.1	4.3	1.8	.0	.0	6.3
3-4	.0	2.0	2.9	.2	.0	3.7	.0	1.9	4.4	.0	.0	6.3
5-6	.0	.0	1.0	.0	.0	1.7	.0	.2	1.9	.2	.0	4.3
7	.0	.2	.3	.0	.0	.3	.0	.0	.3	.1	.0	.6
8-9	.0	.0	.1	.0	.0	.1	.0	.0	.2	.4	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	6.7	4.9	.2	.0	14.2	.6	7.3	8.7	.7	.0	17.4

PERIOD: (OVER-ALL) 1949-1979

MARCH

AREA 0010 FLORIANOPOLIS
26.65 49.7W

TABLE 18 (CONT)

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.7	.0	.0	.0	.0	1.0	.0	.2	.0	.0	.0	.0	.2
1-2	.0	3.8	.8	.0	.0	.0	4.1	.0	1.4	.2	.0	.0	.0	1.6
3-4	.2	1.7	2.3	.1	.0	.0	4.3	.0	.4	1.2	.0	.0	.0	1.6
5-6	.0	.5	1.7	.6	.0	.0	2.9	.0	.3	1.2	.2	.0	.0	1.7
7	.0	.0	1.3	.9	.0	.0	2.4	.0	.0	.3	.3	.0	.0	.6
8-9	.0	.0	.4	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	6.3	6.7	1.8	.0	.0	13.6	.0	2.3	2.9	.6	.0	.0	5.7

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.0	.0	.0	.0	.0	.1	.0	.4	.0	.0	.0	.0	.4	
1-2	.4	.8	.0	.0	.0	.0	.8	.0	1.3	.2	.0	.0	.0	1.3	
3-4	.0	.0	.3	.0	.0	.0	.3	.0	.4	.0	.0	.0	.0	.4	
5-6	.0	.1	.3	.0	.0	.0	.4	.0	.2	.2	.0	.0	.0	.4	
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	.2	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.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	1.3	.0	.0	.0	2.4	.0	2.2	.6	.0	.0	.0	2.9	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	4.4	6.4	.4	.0	.0	.0	11.1	088
1-2	1.6	23.3	7.1	.0	.0	.0	32.1	
3-4	.2	12.4	18.0	.4	.0	.0	31.3	
5-6	.0	3.3	10.4	1.1	.0	.0	14.8	
7	.0	.7	3.8	1.6	.0	.0	6.2	
8-9	.0	.0	.7	.7	.0	.0	1.8	
10-11	.0	.2	.4	.0	.0	.0	.3	
12	.0	.0	.4	.2	.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	6.2	46.6	43.2	4.0	.0	.0	100.0	349

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	484H HGT
46	1.4	10.6	15.8	6.8	2.9	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	432	3
6-7	.1	2.3	7.3	11.1	4.8	1.5	.9	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	331	3
8-9	.1	.0	2.4	3.5	3.2	1.5	1.3	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	163	6
10-11	.0	1.4	.9	2.2	.8	.8	.8	.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	6
12-13	.0	.0	.2	.3	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	7
>13	.0	.1	.0	.1	.1	.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8
INDY	2.7	2.2	2.9	7.0	1.6	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	138	3
TOTAL	4.9	20.5	34.3	27.9	13.9	6.1	4.4	1.6	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1168	4
PCT	4.2	17.6	29.0	23.9	12.6	5.2	3.8	1.4	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1860-1973

AREA 0010 FLORIANOPOLIS
26.05 49.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE MAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.3	.0	.4	.0	.0	.0	.0	3.9	.6	1.3	.8	.0	.4	.0	92.7
NE	3.4	2.1	.2	.0	.0	.0	.0	3.7	.9	2.2	2.1	.0	.3	.0	86.7
E	3.7	1.6	1.1	.0	.0	.0	.0	6.4	3.8	1.3	.2	.0	.0	.0	88.3
SE	3.4	3.8	2.2	.0	.0	.0	.0	10.7	2.9	1.8	.8	.0	.6	.0	83.9
S	1.8	2.3	1.3	.0	.0	.0	.2	5.9	2.9	1.9	.6	.0	.0	.0	89.0
SW	3.3	2.1	1.1	.0	.0	.0	.1	6.3	2.8	1.6	1.0	.0	.0	.0	88.8
W	1.6	8.9	.0	.0	.0	.0	.0	10.3	3.8	2.7	.0	.0	.0	.0	80.9
NW	2.3	1.9	.0	.0	.0	.0	.0	4.1	.0	4.3	.0	.0	.0	.0	92.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALP	2.3	.0	.0	.0	.0	.0	.0	2.3	2.3	2.3	.0	.0	.0	.0	93.2
TOT PCT	3.4	2.3	1.0	.0	.0	.0	.1	6.3	2.3	1.9	.9	.0	.3	.0	88.4
TOT OBS:	1986														

TABLE 2

PERCENT FREQUENC. OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE MAZE	SPRAY BLWG DUST	NO SIG WEA
0000Z	3.3	1.4	1.7	.0	.0	.0	.0	6.0	1.9	4.3	1.2	.0	.2	.0	86.8
0600Z	3.0	1.8	.9	.0	.0	.0	.0	3.3	3.0	3.4	.7	.0	.2	.0	87.9
1201Z	3.3	4.2	.4	.0	.0	.0	.2	6.1	1.2	.2	1.2	.0	.0	.0	89.3
1802Z	3.7	1.4	.8	.0	.0	.0	.0	5.8	3.5	.0	.6	.0	.6	.0	89.6
TOT PCT	3.4	3.2	.9	.0	.0	.0	.0	6.4	2.4	1.9	.9	.0	.2	.0	88.4
TOT OBS:	2039														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.9	3.3	4.7	.5	.0	.0	11.3	10.8	9.0	10.3	11.2	8.6	12.4	13.6	12.3	9.0
NE	1.2	10.3	9.3	1.2	.0	.0	22.0	11.2	22.4	23.3	22.1	26.7	20.6	22.7	20.7	23.0
E	1.3	8.9	5.4	.5	.0	.0	16.2	10.0	18.9	18.2	18.4	18.8	19.0	13.6	13.2	16.0
SE	1.1	7.7	5.0	.8	.0	.0	14.7	10.3	18.9	17.0	14.2	16.8	13.6	11.6	14.7	14.6
S	1.1	3.9	6.1	1.3	.0	.0	14.4	11.8	13.1	13.8	13.3	13.1	14.0	14.1	16.2	10.1
SW	.8	4.0	4.9	1.6	.1	.1	11.1	13.3	10.4	9.5	9.8	7.8	11.9	11.7	13.1	9.0
W	.4	1.8	1.0	.3	.1	.0	3.6	10.3	2.4	1.9	3.6	1.7	4.9	4.2	3.9	6.0
NW	.0	2.1	1.3	.1	.0	.0	4.1	9.3	2.4	3.4	4.2	4.7	5.1	3.8	3.4	8.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALP	2.6	.0	.0	.0	.0	.0	2.6	10.8	2.4	2.4	3.1	1.7	2.3	2.2	2.3	4.3
TOT OBS	689	3114	2529	422	19	3	6758	10.8	1194	843	1173	38	1221	973	1227	67
TOT PCT	9.9	46.1	37.4	6.2	.3	.1	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-60				00	03	09	15	21
N	2.8	6.6	1.9	.0	0	11.3	10.8	9.6	11.1	12.7	13.1
NE	4.9	12.9	4.0	.2	0	22.0	11.2	22.9	22.4	21.3	21.0
E	4.9	9.6	1.9	.0	0	16.2	10.0	18.6	18.3	14.4	13.4
SE	4.1	8.0	2.4	.2	.0	14.7	10.3	18.9	14.4	12.8	14.7
S	3.6	7.3	3.2	.3	.0	14.4	11.8	14.6	13.4	14.1	13.9
SW	2.3	3.0	3.0	.3	.1	11.1	13.3	10.1	9.7	11.8	13.9
W	1.3	1.7	.3	.1	0	3.6	10.3	2.2	3.5	4.6	4.0
NW	1.3	2.0	.3	.0	.0	4.1	9.3	2.8	4.2	3.4	3.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALP	2.6	.0	.0	.0	.0	2.6	10.8	2.4	3.0	2.8	2.4
TOT OBS	1894	3592	1165	89	8	6758	10.8	2037	1233	2194	1294
TOT PCT	28.0	53.0	17.3	1.3	.1	100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1860-1973

APRIL

AREA 0010 FLORIANOPOLIS
26.83 45.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GPT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000	2.4	6.7	47.0	36.9	6.7	.3	*	10.9	100.0	2027
0400	3.0	7.1	49.3	35.6	4.7	.2	-.0	10.3	100.0	1233
1200	2.8	7.9	44.8	37.6	6.6	.3	-.1	10.8	100.0	2194
1800	2.4	7.3	43.8	39.6	6.5	.2	-.2	11.0	100.0	1294
TOT	178	491	31.4	2329	422	19	5	10.8		6758
PCT	2.6	7.3	46.1	37.4	6.2	.3	.1		100.0	

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	7.4	5.6	4.8	2.3		3.7
E	4.8	3.8	5.1	2.2		4.2
SE	4.8	4.2	3.8	3.0		4.5
S	4.7	4.1	3.5	2.5		4.4
SW	3.4	2.1	3.8	1.8		4.2
W	1.0	.9	.9	.2		3.7
NW	.6	.8	.3	.3		3.5
VAR	.0	.0	.0	.0		.0
CALM	.9	.5	.6	.1		3.5
TOT OBS	443	347	418	190	1398	4.1
TOT PCT	31.7	24.8	29.9	13.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT./M) AND OCCURRENCE OF NH (<5/8) BY WIND DIRECTION

WIND DIR	CEILING HEIGHTS (FT./M)										NH (<5/8) ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+		
N	.0	.0	.2	.3	1.0	.4	.4	.1	.1	.1	.1	8.3
NE	.0	.0	.1	1.0	1.4	1.1	.4	.1	.2	.1	.2	15.7
E	.1	.0	.3	1.0	1.6	1.2	.6	.1	.0	.1	.1	11.1
SE	.0	.0	.3	1.3	1.8	1.2	1.3	.0	.1	.0	.1	11.9
S	.1	.0	.1	1.3	2.3	1.4	.8	.3	.2	.1	.2	10.4
SW	.1	.0	.1	.8	1.2	.9	.9	.3	.1	.1	.1	7.2
W	.0	.1	.1	.2	.3	.1	.0	.0	.0	.0	.0	2.2
NW	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	1.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.1	.3	.1	.0	.0	.0	.1	.1	1.6
TOT OBS	3	1	16	86	138	83	37	11	10	6	983	1398
TOT PCT	.2	.1	1.1	6.2	9.9	6.1	4.1	.8	.7	.6	70.3	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>8	>2	>1	>1/2	>1/4	>3000	>0
>8500	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3
>7000	1.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1
>5500	3.0	6.1	6.2	6.2	6.2	6.2	6.2	6.2
>4000	9.5	11.6	12.1	12.2	12.2	12.2	12.2	12.2
>2500	17.3	20.8	21.8	21.9	21.9	21.9	21.9	21.9
>1000	21.9	26.4	27.7	27.9	28.0	28.1	28.1	28.1
>500	22.2	27.3	28.0	29.0	29.1	29.2	29.2	29.2
>150	22.3	27.6	28.9	29.1	29.2	29.2	29.2	29.2
>0	22.4	27.6	29.0	29.2	29.3	29.3	29.3	29.3
TOTAL	319	394	413	417	418	420	420	420

TOTAL NUMBER OF OBS: 1426

PCT FREQ NH (<5/8): 70.3

TABLE 7A

PERCENTAGE FREQ OF (DN CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.3	18.1	18.3	16.2	10.7	7.6	7.6	6.1	7.9	.2	1393

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1880-1973

APRIL

AREA 001C FLORIANOPOLIS
26.65 45.8W

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	*	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	*	.0	.1	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.1	*	*	.1	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	*	*	.1	.0	.0	.0	.2	
1<2	PCP	.0	.0	.1	.1	.1	*	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.1	.1	*	.0	.0	.0	.0	.8	
2<5	PCP	.0	.1	.1	.2	.2	*	.1	.0	.0	.0	.8	
	NO PCP	.2	.2	.1	.2	*	.4	.1	.1	.0	.0	1.6	
	TOT %	.2	.3	.2	.3	.4	.4	.2	.1	.0	.0	2.2	
5<10	PCP	.9	.7	.6	1.1	.2	.3	.2	.1	.0	.1	3.5	
	NO PCP	2.4	4.2	2.9	2.6	2.7	1.7	.4	.8	.0	.3	18.0	
	TOT %	2.7	4.9	3.5	3.7	2.9	2.0	.9	.8	.0	.4	21.4	
10+	PCP	.2	.5	.2	.3	.3	.2	.1	.1	.0	.0	1.8	
	NO PCP	8.8	13.8	11.9	11.8	11.6	7.3	2.4	2.4	.0	1.9	74.0	
	TOT %	9.9	14.3	12.2	12.1	11.9	7.4	2.5	2.5	.0	1.9	75.8	
TOT OBS		11.9	21.5	14.1	14.4	15.2	10.2	3.2	3.4	.0	2.2	100.0	1985
TOT PCT													

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	*	*	*	*	*	*	*	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	
	TOT %	.0	*	*	*	*	.1	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	*	*	.1	.0	.0	.0	.1	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	*	*	.1	.0	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.0	.0	.1	*	.0	.0	.0	.0	.0	.1	
	11-21	*	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	*	*	.0	*	*	.0	.0	.0	.0	.1	
	TOT %	.1	.1	.1	.1	*	*	.0	.0	.0	.0	.3	
2<5	0-3	*	.0	.0	*	.0	.0	*	*	.0	.1	.2	
	4-10	.1	.2	.1	.1	.1	.1	.1	*	.0	.0	.8	
	11-21	.1	.2	.1	.2	.2	.1	*	*	.0	.0	.9	
	22+	.0	.1	*	.1	.1	.1	.0	.0	.0	.0	.3	
	TOT %	.2	.4	.2	.4	.4	.3	.2	.1	.0	.1	2.2	
5<10	0-3	.1	.2	.2	.1	.1	.1	*	.1	.0	.3	1.2	
	4-10	.9	1.3	1.2	1.1	.9	.6	.2	.3	.0	.0	6.0	
	11-21	1.0	1.7	1.1	1.3	1.0	.7	.1	.2	.0	.0	7.0	
	22+	.1	.4	.1	.3	.2	.3	.1	*	.0	.0	1.8	
	TOT %	1.9	3.6	2.7	2.8	2.2	2.0	.4	.7	.0	.3	16.6	
10+	0-3	.7	.9	.9	.7	.8	.7	.3	.3	.0	2.5	7.8	
	4-10	4.6	9.0	7.2	6.3	4.7	3.1	1.8	2.0	.0	.0	38.8	
	11-21	3.8	7.3	3.7	3.6	3.7	3.7	.7	1.2	.0	.0	29.4	
	22+	.4	.7	.2	.3	1.0	1.3	.3	.1	.0	.0	4.6	
	TOT %	9.5	18.1	12.0	11.3	11.6	9.0	3.1	3.6	.0	2.5	80.6	
TOT OBS		11.7	22.2	13.0	14.6	14.2	11.3	3.7	4.3	.0	2.9	100.0	1987
TOT PCT													

APRIL

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1860-1973

AREA 0010 FLORIANPOLIS
26.85 45.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHT: (FEET,MM >4/8) AND OCCURRENCE OF "M" <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	MM <5/8 ANY HGT	TOTAL OBS
0000Z	.8	.0	1.1	5.4	8.8	5.7	4.0	.5	.5	.0	25.5	74.3	369
0600Z	.0	.0	1.9	4.9	10.0	5.6	2.5	.3	1.2	.3	27.5	72.5	324
1201Z	.0	.3	1.3	3.7	10.0	6.2	3.9	.8	.5	1.5	30.1	69.9	389
1802Z	.0	.0	.2	7.0	10.1	5.3	4.0	1.4	.5	.2	29.5	70.5	414
TOT	3	1	10	27	141	85	99	12	10	8	422	1074	1498
PCT	.2	.1	1.1	5.8	9.4	5.7	3.9	.8	.7	.5	28.2	71.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (MM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000Z	.1	.1	.4	2.5	17.4	78.4	1142
0600Z	.1	.0	.1	3.0	17.5	79.3	776
1201Z	.0	.1	.2	1.7	16.2	81.8	1201
1802Z	.2	.2	.3	1.8	15.7	81.0	871
TOT	4	4	12	69	666	3215	3990
PCT	.1	.1	.3	2.2	16.7	88.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <5070	<600 <1	<1000 <5	1000+ AND 5+	MM <5/8 AND 5+	TOTAL OBS
0000Z	.9	2.0	9.3	18.1	72.4	348
0600Z	.0	2.0	8.9	20.0	71.1	305
1201Z	.0	1.9	9.1	22.8	68.0	372
1802Z	.0	.5	9.7	21.7	68.0	401
TOT	3	22	133	296	997	1426
PCT	.2	1.5	9.3	20.8	69.9	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
88/89	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
86/84	.0	.0	.1	.3	1.1	2.4	1.5	.6	89	3.9
79/79	.0	.3	.1	2.7	6.1	16.2	10.0	4.5	677	63.2
76/74	.0	.0	.5	2.9	9.0	11.2	10.3	6.5	620	41.4
69/69	.0	.0	.0	.9	1.5	2.5	1.3	1.1	104	6.9
66/64	.0	.0	.0	.1	.1	.1	.2	.1	7	.5
TOT	0	0	9	83	280	494	439	193	1498	100.0
PCT	.0	.0	.6	5.5	18.7	33.0	29.3	12.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
88/89	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
86/84	1.4	1.6	.9	.4	.6	.4	.1	.1	.0	.4
79/79	7.6	12.8	7.7	5.7	5.2	2.8	1.0	1.7	.0	.8
76/74	2.8	3.7	7.3	9.4	8.1	5.3	1.5	.9	.6	.3
69/69	.3	.4	.3	1.3	1.9	1.3	.4	.3	.0	.1
66/64	.0	.1	.0	.0	.2	.1	.0	.0	.0	.1
TOT	12.0	20.7	16.4	17.0	16.0	10.3	3.1	2.9	.0	1.7

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	85	80	79	74	68	65	61	73.9	2936
0600Z	82	79	78	73	68	64	61	73.3	1233
1201Z	85	83	81	78	69	65	62	75.3	2150
1802Z	90	85	82	76	69	66	64	75.8	1270
TOT	90	82	80	75	68	63	61	74.6	6891

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	2.6	17.1	30.5	32.7	16.1	7.9	4.6	79	416
0600Z	.0	4.2	18.2	28.4	34.2	17.0	7.9	3.9	79	338
1201Z	.0	6.8	18.7	33.8	27.3	11.4	7.6	4.1	76	411
1802Z	.0	10.2	21.3	37.3	23.1	7.9	7.4	3.8	74	381
TOT	0	9.6	28.9	30.4	44.9	20.0	7.7	13.8		1586

APRIL

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1860-1973

APEA 0010 FLORIANOPOLIS
26.85 45.8W

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	61 64	63 66	62 65	61 64	60 63	59 62	58 61	57 60	56 59	TOT	M FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.1	.0			1	.0	.1
11/13	.0	.0	.0	.0	.0	.1	.0			1	.0	.1
9/10	.0	.0	.0	.1	.0	.1	.0			2	.0	.1
7/8	.0	.0	.1	.1	.4	.2	.1			17	.0	.9
6	.0	.0	.1	.2	.2	.5	.0			17	.0	.9
5	.0	.1	.1	.2	.6	.5	.0			21	.0	1.2
4	.0	.0	.1	.7	.9	.5	.0			41	.0	2.3
3	.0	.1	.1	1.0	1.3	.5	.0			90	.0	2.8
2	.0	.1	.9	2.4	3.3	.5	.0			128	.0	7.1
1	.0	.1	.6	3.4	3.7	.2	.0			145	.0	8.1
0	.1	.2	1.8	6.5	5.9	.4	.0			205	.3	16.7
-1	.0	.2	2.1	8.5	2.0	.1	.0			247	.1	12.6
-2	.0	.3	2.9	7.9	1.9	.1	.0			235	.2	12.8
-3	.0	.4	2.7	6.3	.9	.0	.0			187	.1	10.3
-4	.1	.9	3.2	3.2	.5	.0	.0			142	.1	7.8
-5	.1	.8	3.2	2.6	.3	.0	.0			124	.0	6.9
-6	.0	.5	1.2	1.5	.1	.0	.0			98	.0	3.2
-7/-8	.3	.5	1.7	.3	.0	.0	.0			51	.0	2.8
-9/-10	.0	.2	.4	.3	.0	.0	.0			17	.0	.9
-11/-13	.2	.4	.1	.0	.0	.0	.0			12	.0	.7
TOTAL	12	89	383	520	416	22	2			1001	14	1787
PCT	.7	4.6	21.3	47.2	28.1	3.1	.1			100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.4	1.0	.0	.0	.0	.0	1.4	.0	.4	.0	.0	.0	.0	.4
1-2	.0	3.4	1.7	.0	.0	.0	3.1	.2	5.7	2.2	.0	.0	.0	8.0
3-4	.0	.4	2.2	.0	.0	.0	2.6	.0	2.2	3.5	.2	.0	.0	3.8
5-6	.0	.3	7.0	.0	.0	.0	2.2	.0	.6	1.6	.3	.0	.0	3.8
7	.0	.0	.4	.3	.0	.0	.7	.0	.4	1.5	.6	.0	.0	2.8
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.0	.0	.3
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
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
81+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.1	6.5	.3	.0	.0	12.2	.2	9.2	9.3	1.4	.0	.0	20.1

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.2	.8	.1	.0	.0	.0	1.1	.2	.5	.0	.0	.0	.0	.8
1-2	.4	3.6	1.1	.0	.0	.0	7.0	.2	3.9	1.3	.0	.0	.0	5.4
3-4	.0	2.2	2.8	.1	.0	.0	5.1	.0	2.5	2.5	.6	.0	.0	5.0
5-6	.0	.4	2.0	.4	.0	.0	2.8	.0	1.3	2.6	.3	.0	.0	4.4
7	.0	.0	.4	.0	.0	.0	.4	.0	.3	1.2	.9	.0	.0	2.6
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.6	.0	.0	.0	.6
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
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
81+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	6.9	6.7	.3	.0	.0	16.7	.4	8.7	7.9	1.7	.0	.0	18.8

PERIOD: (OVER-ALL) 1969-1973

APRIL

AREA 0010 FLORIANOPOLIS
26.88 43.6W

TABLE 18 (CONT)

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

MGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
.4	1.3	.0	.0	.0	.0	.0	1.7	.0	.5	.0	.0	.0	.0	.0	.5	
1-2	.3	3.2	1.1	.0	.0	.0	4.6	.0	1.2	1.4	.0	.0	.0	.0	2.7	
3-4	.0	1.4	2.3	.0	.0	.0	3.9	.0	.0	1.6	.0	.0	.0	.0	1.6	
5-6	.0	.0	2.1	.7	.0	.0	2.8	.0	.4	1.6	.2	.0	.0	.0	2.2	
7	.0	.0	1.0	.3	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
29-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	6.8	2.3	1.0	.0	.0	16.8	.0	2.2	4.3	.3	.0	.0	.0	7.0	

MGT	M							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
.4	.0	.0	.0	.0	.0	.0	.0	.9	.2	.4	.0	.0	.0	.0	.6		
1-2	.0	1.0	.3	.0	.0	.0	.0	1.3	.2	.7	.0	.0	.0	.0	.9		
3-4	.0	.2	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.2		
5-6	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.6	.0	.0	.0	.8		
7	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
29-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.4	1.8	.3	.3	.0	.0	2.9	.4	1.3	.8	.0	.0	.0	.0	2.4		

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
.4	3.3	3.3	.2	.0	.0	.0	11.0	
1-2	1.4	24.5	9.2	.0	.0	.0	35.1	
3-4	.0	9.1	13.1	.4	.0	.0	22.6	
5-6	.0	3.7	13.9	2.3	.0	.0	19.9	
7	.0	.9	4.4	2.3	.0	.0	7.6	
8-9	.0	.0	.0	.0	.0	.0	.9	
10-11	.0	.0	.0	.2	.0	.0	.2	
12	.0	.0	.4	.4	.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	
26-28	.0	.0	.0	.0	.0	.0	.0	
29-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	43.7	44.0	3.3	.0	.0	100.0	363

PERIOD: (OVER-ALL) 1969-1973

TABLE 19

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

PERIOD (SEC)	.4	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	
.4	4.4	10.6	12.6	5.9	1.5	.9	.3	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	427	3
1-2	.2	1.9	3.5	11.7	3.3	2.4	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	366	3
3-4	.0	.3	1.4	3.8	4.0	2.0	.4	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	147	7
5-6	.0	.0	.6	.1	1.4	.9	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	7
7	.0	.0	.0	.1	.3	.2	.2	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	9
8-9	.0	.0	.0	.0	.1	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1170	4
TOTAL	87	171	314	282	2.1	173	36	11	1.1	2	2	0	0	0	0	0	0	0	0	0	1170	4
PCT	7.4	14.6	26.8	24.1	19.0	6.8	3.1	.9	.9	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1957-1972

AREA 0010 FLORIANOPOLIS
26.93 43.7M

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT 03 TIME	PCPN PAST HOUR	THDR LTNG	FDS WD PCPN	FDS WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.2	.8	.0	.0	.0	.0	.0	2.0	.7	.2	3.3	.0	1.2	.0	92.6
NE	1.1	2.4	.9	.0	.0	.0	.0	4.4	2.3	.7	4.1	.0	.3	.0	87.9
E	1.6	2.7	2.7	.0	.0	.0	.0	6.9	2.3	1.0	4.0	.0	.4	.0	84.8
SE	4.8	3.4	1.9	.0	.0	.0	.0	9.9	3.4	1.8	1.8	.0	.5	.0	83.6
S	1.9	1.8	.3	.0	.0	.0	.0	3.6	2.9	.4	.3	.0	.6	.0	92.2
SW	3.4	3.3	.7	.0	.0	.0	.0	7.6	1.3	.4	.1	.0	.2	.0	90.3
W	1.9	4.4	1.9	.0	.0	.0	.0	8.2	1.9	1.3	.0	.0	.2	.0	88.7
NW	.3	.0	1.8	.0	.0	.0	.0	2.1	1.3	.5	2.3	.0	1.2	.0	92.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALF	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	.0	96.0
TOT PCT	2.0	2.3	1.0	.0	.0	.0	.0	9.2	2.0	.7	2.2	.0	.6	.1	89.2
TOT OBS:	1772														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT 03 TIME	PCPN PAST HOUR	THDR LTNG	FDS WD PCPN	FDS WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0600Z	1.8	2.6	.4	.0	.0	.0	.0	4.9	1.3	1.5	2.4	.0	.7	.0	89.2
0630Z	1.9	1.7	1.0	.0	.0	.0	.0	4.3	2.4	1.2	1.7	.0	.2	.0	90.1
1201Z	2.1	3.3	1.2	.0	.0	.0	.0	6.3	1.9	.0	2.9	.0	.8	.2	87.9
1802Z	2.3	1.8	1.4	.0	.0	.0	.0	5.1	2.8	.2	2.1	.0	.7	.0	89.0
TOT PCT	2.0	2.4	1.0	.0	.0	.0	.0	9.2	2.1	.7	2.3	.0	.6	.1	89.0
TOT OBS:	1818														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.0	7.4	3.4	.7	.0	.0	14.6	10.7	12.8	11.8	14.7	17.4	16.6	16.0	14.8	15.3
NE	1.1	9.2	9.0	1.2	.0	.0	20.6	11.4	21.9	22.3	20.0	18.0	20.4	17.7	20.6	19.4
E	.7	8.0	3.7	.8	.0	.0	10.0	10.6	16.9	11.9	12.2	17.4	8.6	8.2	8.1	10.9
SE	.6	6.0	4.0	1.0	.1	.0	11.7	11.4	14.4	13.0	10.9	9.7	9.9	11.1	10.4	9.6
S	1.1	6.1	3.7	1.0	.2	.0	14.9	12.8	19.9	13.9	13.4	16.9	13.9	13.2	14.3	14.1
SW	.8	4.8	6.5	2.8	.5	.0	19.3	14.6	12.0	14.3	16.0	18.0	15.9	17.4	14.3	14.3
W	.6	7.4	1.9	.8	.2	.0	4.9	11.7	4.1	4.2	4.2	1.2	3.3	3.7	3.4	7.6
NW	.7	2.1	1.4	.2	.1	.0	3.8	9.3	4.6	4.1	3.1	2.3	6.8	8.4	3.7	3.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9						2.9	.0	2.3	3.8	2.8	.0	2.3	2.3	2.0	.0
TOT OBS	617	3033	2880	604	72	3	6881	11.3	1721	174	1228	43	1220	1034	1218	48
TOT PCT	0.0	44.1	37.1	8.8	1.0	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	4.0	8.0	2.3	.3	.0	14.4	10.7	12.3	14.8	16.3	14.9
NE	4.6	11.6	4.2	.1	.0	20.6	11.4	22.1	20.3	19.3	20.4
E	2.9	3.4	1.8	.1	.0	10.0	10.6	11.3	12.3	8.4	8.2
SE	3.0	6.1	2.1	.4	.0	11.7	11.4	14.2	10.8	10.4	10.6
S	3.7	7.0	3.4	.7	.0	14.8	12.3	15.0	13.7	14.3	14.4
SW	3.1	6.0	4.9	1.9	.1	19.3	14.6	13.6	16.1	16.6	14.2
W	1.7	3.0	.8	.3	.0	4.9	11.7	4.2	4.1	3.6	3.3
NW	2.3	2.4	.7	.1	.0	3.3	9.3	4.4	3.0	6.6	3.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9					2.9	.0	3.0	2.7	2.3	1.9
TOT OBS	1912	3333	1383	241	10	6881	11.3	2093	1271	2234	1261
TOT PCT	27.8	48.3	20.1	3.5	.1	100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1914-1972
(COVER-ALL) 1857-1972

MAY

AREA 0010 FLORIANOPOLIS
26.85 43.74

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (SMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
0000Z	3.0	8.3	43.4	35.0	9.3	.8	0	11.3	100.0	2095
0400Z	2.7	8.8	43.3	36.0	7.6	1.4	.1	11.3	100.0	1271
1215Z	2.3	8.3	42.4	38.2	9.4	1.2	.0	11.7	100.0	2284
1821Z	1.9	8.6	48.9	39.6	8.0	1.0	.1	11.7	100.0	1261
TOT	179	444	3033	2550	606	72	3	11.3		6881
PCT	2.3	6.3	44.1	37.1	8.8	1.0	0		100.0	

TABLE 5

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

WIND DIR	TOTAL CLOUD				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & 9		
N	7.3	3.4	3.8	1.2	3.2	3.2
NE	8.5	4.4	3.8	3.1	3.8	3.8
E	4.0	2.3	2.1	1.7	3.9	3.9
SE	3.3	2.7	2.4	2.8	4.4	4.4
S	4.3	3.1	4.6	2.7	4.3	4.3
SW	3.7	3.3	3.8	2.4	3.9	3.9
W	1.3	1.8	1.4	.7	4.2	4.2
NW	1.7	1.4	1.5	.3	3.6	3.6
VAR	.0	.0	.0	.0	.0	.0
CALM	1.2	.1	.2	.1	1.7	1.7
TOT OBS	477	273	321	189	1260	3.8
TOT PCT	27.9	21.7	25.3	15.0	188.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, MM >4/8) AND OCCURRENCE OF NH <3/8 BY WIND DIRECTION

WIND DIR	CEILING HEIGHTS (FT, MM >4/8)										NH <3/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3000	5000	8000+	9000+		
	148	299	599	999	1999	349	4999	8499	7999			
N	.0	.0	.1	.1	.9	.8	.4	.1	.1	.0	13.3	
NE	.0	.0	.3	.6	2.4	1.6	1.2	.3	.0	.1	19.2	
E	.0	.0	.0	.3	1.3	.7	.8	.0	.1	.0	7.0	
SE	.2	.1	.1	.6	1.8	.7	.7	.1	.0	.0	7.1	
S	.1	.2	.2	1.0	2.1	1.2	.4	.1	.0	.1	9.3	
SW	.0	.1	.1	.9	1.6	1.3	.7	.1	.0	.0	10.7	
W	.0	.0	.0	.3	.6	.3	.0	.0	.0	.0	2.8	
NW	.0	.0	.0	.1	.4	.2	.1	.0	.0	.0	3.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1.4	
TOT OBS	3	9	10	31	141	88	39	11	1	3	394	1260
TOT PCT	.2	.4	.8	4.0	11.2	7.0	4.2	.9	.1	.2	71.0	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>5000	>0
>4900	.3	.3	.3	.3	.3	.3	.3	.3
>3900	.9	1.1	1.1	1.2	1.2	1.2	1.2	1.2
>2900	4.3	3.2	3.3	3.4	3.4	3.4	3.4	3.4
>1900	10.0	11.0	12.2	12.3	12.3	12.3	12.3	12.3
>900	21.8	26.9	27.2	27.3	27.3	27.3	27.4	27.4
>500	22.4	27.2	28.0	28.1	28.1	28.1	28.2	28.2
>150	22.7	27.0	28.4	28.3	28.3	28.3	28.6	28.6
>0	22.7	27.7	28.4	28.7	28.7	28.7	28.8	28.8
TOTAL	291	354	364	367	367	367	369	369

TOTAL NUMBER OF OBS: 1260

PCT FREQ NH <3/8: 71.2

TABLE 7A

PERCENTAGE FREQ OF (CM CLOUDS (EIGHTHS))

	0	1	2	3	4	5	6	7	8	9	TOTAL OBS
	14.8	18.6	14.3	13.9	7.3	6.4	7.0	5.1	10.4	.2	1260

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1857-1972

MAY

AREA 0010 FLORIANOPOLIS
26.63 49.7M

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.1	.1	.0	.1	.0	.0	.3	
2<5	PCP	.1	.1	.0	.0	.0	.1	.1	.0	.0	.0	.3	
	NO PCP	.3	.3	.1	.1	.2	.2	.0	.0	.0	.0	1.2	
	TOT %	.4	.4	.1	.1	.2	.3	.1	.0	.0	.0	1.6	
5<10	PCP	.1	.3	.4	.3	.3	.7	.2	.0	.0	.0	2.4	
	NO PCP	3.2	4.6	2.0	2.4	2.7	2.7	1.1	1.1	.0	.0	20.9	
	TOT %	3.4	5.1	2.4	2.8	3.1	3.5	1.3	1.1	.0	.0	24.4	
10<	PCP	.1	.3	.3	.6	.1	.3	.1	.0	.0	.0	2.0	
	NO PCP	13.3	13.6	7.8	7.4	10.3	11.8	3.0	3.4	.0	1.0	73.1	
	TOT %	13.4	14.0	8.1	7.9	10.9	12.1	3.2	3.5	.0	1.0	75.1	
TOT OBS													1771
TOT PCT													16.1 21.6 10.6 10.9 14.3 16.0 4.9 4.6 .0 1.4 100.0

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
2<5	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	4-10	.1	.2	.0	.1	.2	.1	.0	.0	.0	.0	.9	
	11-21	.2	.1	.1	.1	.2	.1	.1	.0	.0	.0	.9	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.3	.4	.2	.4	.4	.3	.1	.0	.0	.0	2.1	
5<10	0-3	.1	.3	.1	.1	.2	.1	.0	.1	.0	.3	1.3	
	4-10	1.2	1.2	.6	1.0	.8	.6	.4	.3	.0	.0	6.2	
	11-21	1.3	2.0	.9	.8	.9	1.1	.2	.3	.0	.0	7.7	
	22+	.2	.3	.3	.2	.2	.3	.1	.0	.0	.0	1.6	
	TOT %	2.8	3.7	1.9	2.0	2.2	2.4	.7	.9	.0	.3	17.0	
10<	0-3	1.0	.9	.3	.3	.6	.4	.3	.3	.0	2.0	6.8	
	4-10	6.6	9.0	4.3	3.4	3.3	4.2	1.8	2.6	.0	.0	38.4	
	11-21	4.7	7.3	3.1	2.9	4.3	3.8	1.0	.9	.0	.0	29.9	
	22+	.3	.3	.2	.3	1.3	2.3	.4	.1	.0	.0	3.4	
	TOT %	12.7	14.6	6.3	9.0	11.9	12.7	3.4	4.2	.0	2.0	80.3	
TOT OBS													3730
TOT PCT													13.8 20.8 10.3 11.3 14.2 13.3 4.2 3.2 .0 2.3 100.0

MAY

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1957-1972

AREA 0010 FLORIANOPOLIS
26.63 45.7M

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NM >4/8) AND OCCURRENCE OF NM <3/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <3/8	TOTAL
(GMT)	149	209	399	999	1999	3499	4999	6499	7999			ANY HGT	DBS
0000	.0	.3	.3	3.3	6.8	4.7	3.1	.3	.0	.3	23.3	76.7	318
0600	.0	.3	.7	3.9	11.1	4.9	3.3	.7	.0	.0	23.9	76.1	306
1200	.6	.3	1.2	3.5	13.5	9.6	4.4	1.2	.0	.6	34.8	65.2	342
1800	.3	.6	.9	3.8	9.9	7.9	3.6	1.2	.3	.0	30.4	69.6	342
TOT	3	5	10	31	142	99	54	11	1	3	370	936	1308
PCT	.2	.4	.8	3.9	10.9	6.9	4.1	.8	.1	.2	28.3	71.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL
(GMT)							DBS
0000	.2	.0	.2	2.3	16.7	80.6	1082
0600	.0	.0	.1	2.0	18.0	79.9	760
1200	.2	.0	.3	1.7	17.8	80.0	1178
1800	.3	.0	.6	2.2	16.3	80.6	777
TOT	6	0	12	77	655	3047	3797
PCT	.2	.0	.3	2.0	17.3	80.2	100.0

TABLE 12

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

HR	<150	150-300	300-600	600-1000	1000+	NM <3/8	TOTAL
(GMT)	<5000	<1	<5	<10	<15	AND 5+	DBS
0000	.0	1.0	8.0	16.7	79.3		312
0600	.0	1.0	4.4	19.9	79.7		296
1200	.6	2.1	6.3	29.0	66.8		338
1800	.3	1.8	7.2	24.3	69.6		334
TOT	3	19	83	290	907		1280
PCT	.2	1.3	6.5	22.7	70.9		100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
F									DBS	FREQ
80/84	.0	.0	.0	.1	.4	.3	.1		12	.9
75/79	.0	.0	.1	.4	1.3	4.9	8.3	2.7	241	17.8
70/74	.0	.0	1.1	1.8	8.3	14.3	18.7	8.8	703	52.0
65/69	.0	.0	.9	2.4	6.8	9.8	3.9		326	24.0
60/64	.0	.0	.1	.4	1.4	1.8	1.2	.4	97	4.9
55/59	.0	.0	.0	.0	.2	.0			6	.4
TOTAL	0	0	9	48	219	392	455	214	1557	100.0
PCT	.0	.0	.7	3.0	16.1	28.0	33.5	13.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

HR	N	NE	E	SE	S	SW	W	NW	VAR	CALM
0000	.3	.2	.0	.1	.1	.0	.0	.1	.1	.0
0600	4.1	6.2	1.4	1.1	1.0	1.3	.9	1.3	.0	.4
1200	7.9	12.6	7.4	7.3	6.1	3.4	2.4	2.4	.0	.3
1800	7.4	2.3	2.3	2.9	3.5	6.8	1.2	.3	.0	.1
TOT	11	11	11	11	16	21	7	7	2	1
PCT	.1	.0	.0	.0	.0	.3	.1	.0	.0	.0
TOT	14.9	21.4	11.1	11.3	14.3	16.1	9.1	4.5	.0	1.1

TABLE 15

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

HR	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									DBS
0000	85	78	76	71	64	61	36	70.6	2064
0600	79	77	76	71	63	60	33	70.1	1870
1200	87	81	78	72	64	60	35	71.8	2193
1800	89	82	79	73	65	60	37	72.4	1223
TOT	89	80	77	72	64	60	35	71.2	6770

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										DBS
0000	.0	4.8	13.9	23.3	40.4	17.4			79	374
0600	.0	5.0	12.4	23.4	34.7	18.8			79	323
1200	.0	3.8	17.0	31.9	31.4	13.9			77	393
1800	.0	7.8	17.3	33.7	28.7	13.0			76	307
TOT	0	31	225	404	489	220			78	1599

MAY

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1937-1972

AREA 0010 FLORIANOPOLIS
26.03 49.7M

TABLE 17

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

AIR-SEA TMP DIP	53 56	57 60	61 64	63 66	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.1	1	.0	.1
9/10	.0	.0	.0	.0	.1	.1	.0	.0	.0	2	.0	.1
7/8	.0	.0	.0	.0	.2	.3	.1	.1	.1	10	.0	.6
6	.0	.0	.0	.0	.0	.4	.1	.2	.1	11	.0	.7
5	.0	.0	.1	.0	.6	.8	.3	.1	.1	23	.0	1.4
4	.0	.0	.1	.0	.9	.9	1.0	.1	.1	48	.0	3.0
3	.0	.0	.1	.3	.4	1.3	.9	.1	.1	48	.1	3.0
2	.0	.0	.0	.4	1.6	2.9	.7	.2	.2	93	.2	5.7
1	.0	.0	.0	.8	2.0	4.4	1.3	.0	.0	131	.3	8.0
0	.0	.0	.1	.8	4.8	8.2	1.8	.1	.1	231	.6	15.2
-1	.0	.0	.2	1.3	3.2	6.2	.4	.0	.0	219	.6	13.0
-2	.0	.0	.1	1.4	6.3	4.3	.3	.0	.0	204	.4	12.4
-3	.0	.0	.2	1.9	4.6	2.2	.0	.0	.0	149	.2	8.9
-4	.0	.1	.6	1.9	3.6	1.3	.1	.0	.0	122	.1	7.6
-5	.0	.1	.4	1.9	2.3	.7	.0	.0	.0	89	.1	5.3
-6	.0	.2	.6	1.9	1.6	.1	.0	.0	.0	68	.1	4.2
-7/-8	.0	.1	.9	2.3	.9	.3	.0	.0	.0	70	.0	4.4
-9/-10	.0	.2	.4	.9	.4	.0	.0	.0	.0	31	.0	1.9
-11/-13	.0	.3	.6	.3	.1	.0	.0	.0	.0	19	.0	1.2
-14/-16	.1	.1	.1	.1	.0	.0	.0	.0	.0	8	.0	.5
-17/-19	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	7	10	16	37	64	112			1390	4.0	1350
PCT	.1	1.0	4.4	16.4	36.1	34.2	7.0	.8		100.0	2.9	97.3

PERIOD: (OVER-ALL) 1968-1972

TABLE 18

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

MGT	SE						PCT	NE						
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.0	.0	.0	.0	.0	.0	1.0	.4	.7	.2	.0	.0	.0	1.3
1-2	.0	2.3	1.8	.0	.0	.0	3.7	.3	6.4	2.2	.0	.0	.0	11.1
3-4	.0	1.4	2.3	.0	.0	.0	3.8	.0	1.9	4.2	.0	.0	.0	6.1
5-6	.0	.0	2.0	.0	.0	.0	2.0	.0	.0	3.0	.1	.0	.0	3.0
7	.0	.0	.4	.2	.0	.0	.5	.0	.4	.2	.6	.0	.0	1.7
8-9	.0	.0	.6	.0	.0	.0	.6	.0	.6	.4	.0	.0	.0	.6
10-11	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.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	.7	7.9	6.9	.3	.0	.0	15.8	.9	11.4	10.4	.7	.0	.0	29.3

MGT	SE						PCT	NE						
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.0	.0	.0	.0	.0	.0	.2	.3	.7	.0	.0	.0	.0	1.2
1-2	.0	2.9	1.8	.0	.0	.0	3.7	.0	2.3	1.0	.0	.0	.0	3.3
3-4	.0	1.7	2.3	.2	.0	.0	4.4	.0	1.3	1.3	.0	.0	.0	3.2
5-6	.0	.6	1.7	.4	.0	.0	2.4	.1	.4	1.4	.1	.0	.0	1.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.2	.7	.4	.0	.0	1.3
8-9	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	3.1	.6	.0	.0	11.2	.3	3.6	4.6	.7	.0	.0	11.3

PERIOD: (OVER-ALL) 1963-1972

MAY

AREA 001C FLOPIANOPOLIS
26.64 49.7M

TABLE 16 (CONT)

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

HGT	S						PCT	SW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.2	1.0	.0	.0	.0	.0	1.2	.2	.9	.0	.0	.0	.0	1.1	
1-2	.0	1.3	.3	.0	.0	.0	2.0	.3	2.3	.6	.0	.0	.0	3.3	
3-4	.0	2.3	2.7	.2	.0	.0	5.4	.0	.7	2.0	.3	.0	.0	2.9	
5-6	.2	1.3	1.4	.3	.0	.0	2.3	.0	.6	1.0	.1	.0	.0	1.7	
7	.0	.2	.4	.0	.0	.0	.6	.0	.2	.7	.4	.4	.0	1.7	
8-9	.0	.0	.2	.4	.0	.0	.6	.0	.0	.4	.3	.0	.0	.7	
10-11	.0	.0	.2	.4	.0	.0	.6	.0	.0	.4	.3	.0	.0	.7	
12	.0	.0	.0	.2	.4	.0	.6	.0	.0	.2	1.1	.0	.0	1.3	
13-16	.0	.0	.0	.2	.4	.0	.6	.0	.0	.0	.7	.0	.0	.7	
17-19	.0	.0	.0	.2	.2	.0	.4	.0	.0	.1	.4	.1	.0	.5	
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	.2	.0	.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	
49-56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	5.7	5.3	1.4	.2	.0	13.1	.5	4.8	4.8	3.3	.3	.0	13.9	

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.0	.4	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.4	
1-2	.2	1.2	.2	.0	.0	.0	1.6	.2	1.1	.3	.0	.0	.0	1.6	
3-4	.0	.0	.4	.0	.0	.0	.4	.0	.2	.3	.0	.0	.0	.7	
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.0	.7	.0	.0	.0	.7	
7	.0	.0	.2	.0	.2	.0	.4	.0	.0	.3	.1	.0	.0	.3	
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	.1	.0	.0	.3	
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	.1	.0	.0	.3	
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-80	.0	.0	.0	.0	.0	.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	2.4	1.2	.0	.4	.0	4.7	.2	1.7	2.2	.2	.0	.0	4.2	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
41	4.0	3.3	.2	.0	.0	.0	9.7	588
1-2	2.2	26.1	7.3	.0	.0	.0	35.6	
3-4	.2	10.3	19.4	.6	.0	.0	29.9	
5-6	.0	1.6	11.3	.8	.0	.0	14.2	
7	.0	1.0	2.0	1.6	.0	.0	3.7	
8-9	.0	.2	2.0	1.2	.0	.0	3.4	
10-11	.0	.0	.0	1.6	.0	.0	2.3	
12	.0	.0	.0	.0	.0	.0	1.0	
13-16	.0	.0	.0	.0	.0	.0	1.0	
17-19	.0	.0	.0	.0	.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	
49-56	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-80	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.5	43.1	39.0	7.5	1.0	.0	100.0	506

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

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

PERIOD (SEC)	41	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	71-80	87+	TOTAL	MEAN HGT	
40	3.2	10.0	13.5	4.2	2.1	.6	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	339	3
6-7	.1	1.3	8.1	10.6	3.9	2.4	.7	.4	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	319	3
8-9	.0	.4	2.9	3.2	4.7	2.3	.0	.1	.4	.2	.2	.8	.0	.0	.0	.0	.0	.0	.0	.0	162	7
10-11	.0	.0	.8	.4	.9	.6	.0	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	7
12-13	.0	.1	.8	.0	.2	.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	6
15	.0	.0	.0	.3	.2	.1	.0	.1	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	14	11
INDST	2.0	2.1	3.2	1.8	1.1	1.2	.8	1.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	133	4
TOTAL	56	192	305	217	188	78	60	14	14	7	4	1	0	0	0	0	0	0	0	0	1047	3
PCT	3.3	14.3	23.1	20.7	18.1	7.4	3.8	1.1	1.1	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1919-1973
(OVER-ALL) 1870-1973

JUNE

AREA 0010 FLORIANOPOLIS
20.83 45.7M

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FAZN PCPN	MAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.3	1.4	.7	.0	.0	.0	.0	3.1	1.4	1.3	2.7	.0	.0	.0	91.6
NE	2.1	3.4	.3	.0	.0	.0	.2	6.3	1.1	.8	2.4	.0	.9	.0	88.3
E	0.6	4.2	1.2	.0	.0	.0	.0	12.0	4.3	1.4	1.2	.0	.0	.0	81.1
SE	4.9	3.3	1.8	.0	.0	.0	.0	10.9	6.0	.7	.9	.0	1.1	.0	81.1
S	3.6	2.8	3.8	.0	.0	.0	.0	12.0	2.3	.0	2.7	.0	.9	.0	82.1
SW	3.2	1.1	2.3	.0	.0	.0	.0	6.3	3.8	.9	2.8	.0	.1	.0	86.4
W	2.2	2.9	1.4	.0	.0	.0	.0	6.3	4.3	1.4	4.0	.0	.0	.0	83.7
NW	0.2	2.8	.0	.0	.0	.0	.0	9.0	1.4	3.3	3.2	.0	.0	.0	80.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALF	3.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	3.0	.0	3.0	.0	83.0
TOT PCT	3.3	2.8	1.4	.0	.0	.0	.1	7.6	2.4	1.1	2.3	.0	.6	.0	85.9
TOT OBS:	1003														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FAZN PCPN	MAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
08003	3.2	3.2	1.0	.0	.0	.0	.2	7.7	2.0	3.3	2.2	.0	.2	.0	83.9
08009	4.7	4.1	2.3	.0	.0	.0	.0	10.4	2.3	1.9	2.3	.0	.3	.0	82.2
12013	3.2	1.9	1.7	.0	.0	.0	.0	6.7	2.3	.0	2.7	.0	.4	.0	87.8
18021	2.7	2.2	.7	.0	.0	.0	.0	3.7	3.2	.2	2.3	.0	1.0	.0	87.3
TOT PCT	3.4	2.8	1.3	.0	.0	.0	.1	7.3	2.3	1.1	2.3	.0	.3	.0	86.0
TOT OBS:	1043														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.2	7.9	6.7	1.0	.1	.0	18.9	11.1	14.3	13.7	18.7	10.0	17.3	18.2	16.3	23.7
NE	1.3	9.6	8.0	1.4	.1	.0	21.1	11.3	23.6	22.3	21.2	20.3	21.3	17.7	20.1	22.4
E	.0	4.8	3.1	.7	.0	.0	9.1	10.8	9.9	9.9	10.1	14.3	6.8	7.3	8.4	2.4
SE	.0	4.7	2.8	.7	.1	.0	9.1	10.6	9.7	10.7	9.3	10.0	8.0	8.3	8.3	6.6
S	1.1	6.9	3.4	1.4	.1	.0	12.9	12.4	13.9	12.1	12.1	13.7	12.3	12.4	14.3	14.3
SW	.0	4.8	6.2	2.3	.4	.0	14.3	14.3	13.8	13.7	12.8	10.7	13.3	14.9	13.3	10.3
W	.0	3.4	1.8	.7	.1	.0	3.6	11.7	4.8	3.2	3.8	7.9	3.8	6.0	3.6	3.3
NW	.0	3.8	2.2	.4	.1	.0	7.3	10.0	3.3	6.2	6.2	4.3	7.8	10.1	8.3	9.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALF	3.3	.0	.0	.0	.0	.0	3.3	.0	4.4	3.4	3.6	2.9	2.7	2.7	2.7	2.6
TOT OBS	774	2943	2334	606	61	0	6938	11.3	1227	910	1238	33	1240	998	1232	33
TOT PCT	11.7	42.4	34.8	8.7	.9	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	4.3	8.8	3.4	.2	0	16.7	11.1	13.0	13.5	17.8	16.6
NE	3.0	11.9	4.0	.3	0	21.1	11.3	23.0	21.3	19.8	20.2
E	2.3	4.8	1.8	.2	.0	9.1	10.8	9.9	10.2	8.2	8.3
SE	2.7	4.7	1.3	.1	.0	9.1	10.6	10.1	9.3	8.2	8.4
S	3.3	3.7	3.3	.4	0	12.9	12.4	13.1	12.2	12.3	14.3
SW	2.7	6.1	4.3	1.2	.1	14.3	14.3	13.3	12.8	16.0	13.3
W	1.9	2.2	1.1	.3	0	3.6	11.7	3.0	3.9	3.9	3.6
NW	2.7	3.4	1.1	.1	.0	7.3	10.0	3.7	6.1	8.8	8.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALF	3.3	.0	.0	.0	.0	3.3	.0	4.8	3.3	2.7	2.7
TOT OBS	2008	3288	1428	201	13	6938	11.3	2137	1273	2238	1290
TOT PCT	28.9	47.4	20.6	2.9	.2	100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1870-1973

JUNE

AREA 0010 FLORIANOPOLIS
26.6S 49.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000Z	4.8	7.9	43.6	38.4	7.2	1.2	.0	10.8	100.0	2127	
0600Z	3.3	6.9	44.3	35.2	9.2	.9	.0	11.3	100.0	1273	
1200Z	2.7	7.5	41.2	38.0	10.0	.3	.0	11.6	100.0	2238	
1800Z	2.7	8.2	40.6	38.8	8.7	1.0	.0	11.0	100.0	1290	
TOT	244	530	2943	2554	606	61	0	11.3		6938	
PCT	3.5	7.6	42.4	36.8	8.7	.9	.0	10.0			

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	8.7	3.3	3.2	4.4		4.2
E	2.6	2.6	2.6	2.1		4.5
SE	2.2	1.0	2.3	2.1		4.9
S	3.3	2.8	4.1	3.2		3.2
SW	3.8	2.2	3.4	3.1		4.3
W	2.0	.6	1.2	.7		3.8
NW	1.4	.7	.7	1.4		4.4
VAR	.0	.0	.0	.0		.0
CALM	.7	.3	.2	.3	1175	3.5
TOT OBS	373	220	332	230	1175	4.4
TOT PCT	31.7	18.7	28.3	21.3	100.0	

TABLE 6

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER	CEILING HEIGHTS (FT, NH >4/8)											NH <4/8 ANY HGT	TOTAL OBS
							000	100	300	400	1000	2000	3000	3000	6500	8000+			
N	.0	.0	.1	.7	1.9	.7	.6	.1	.0	.1	.0	.1	.0	.1	13.4				
NE	.2	.0	.1	2.0	2.3	1.1	1.1	.3	.3	.7	10.0				10.0				
E	.2	.0	.0	.8	1.0	.8	.3	.4	.0						6.3				
SE	.2	.0	.2	.7	1.1	.6	.3	.3	.0						4.4				
S	.3	.0	.6	2.0	2.2	1.3	.6	.2	.1	.0					8.2				
SW	.1	.1	.3	1.0	1.9	.3	.3	.4	.0						8.0				
W	.1	.0	.0	.3	.3	.1	.1	.1	.0						3.3				
NW	.0	.1	.0	.6	.3	.1	.1	.0	.0						3.0				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0						.0				
CALM	.0	.0	.0	.0	.0	.1	.1	.7	.0	.0	.0	.0	.0	.0	1.1				
TOT OBS	12	2	15	96	133	62	43	21	4	3	78				1175				
TOT PCT	1.0	.2	1.3	8.2	11.3	5.3	3.7	1.8	.3	.3	6.7				100.0				

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>30"0	>0
>6500	.4	.3	.6	.6	.6	.6	.6	.6
>4000	1.2	2.1	2.3	2.3	2.3	2.3	2.3	2.3
>3000	3.8	3.2	3.6	3.7	3.7	3.7	3.7	3.7
>2000	7.7	10.3	10.9	11.0	11.0	11.0	11.0	11.0
>1000	17.3	21.7	22.4	22.5	22.5	22.5	22.5	22.5
>600	22.1	29.4	30.4	30.6	30.6	30.6	30.6	30.6
>300	22.4	30.4	31.3	31.8	31.8	31.8	31.8	31.8
>150	22.4	30.7	31.8	32.0	32.0	32.0	32.0	32.0
>0	22.7	31.2	32.4	32.7	32.7	32.0	32.0	32.0
TOTAL	270	371	383	389	389	393	393	393

TOTAL NUMBER OF OBS: 1190

PCT FREQ NH <4/8: 67.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	14.7	14.3	15.3	12.3	8.7	6.0	6.0	8.0	13.4	.8	1269

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1970-1973

JUNE

AREA 0010 FLORIANOPOLIS
26.03 49.74

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.1	.0	.1	.4	.4
	TOT %	.0	.0	.0	.0	.1	.0	.0	.1	.0	.1	.4	.4
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
1<2	PCP	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.7	.7
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.8	.8
2<5	PCP	.0	.1	.0	.3	.2	.0	.1	.0	.0	.0	.6	.6
	NO PCP	.1	.4	.0	.1	.3	.3	.0	.0	.0	.1	1.4	1.4
	TOT %	.1	.5	.0	.3	.4	.3	.1	.0	.0	.1	2.0	2.0
5<10	PCP	.2	1.2	.9	.3	1.0	.4	.2	.1	.0	.0	4.7	4.7
	NO PCP	3.0	3.3	1.7	2.0	2.8	3.3	1.2	1.0	.0	.1	20.5	20.5
	TOT %	3.3	4.5	2.6	2.3	3.8	3.7	1.3	1.1	.0	.1	25.2	25.2
10+	PCP	.2	.4	.1	.1	.4	.4	.0	.3	.0	.1	2.0	2.0
	NO PCP	13.6	19.0	6.1	3.3	9.8	9.1	2.8	3.1	.0	.9	69.6	69.6
	TOT %	13.8	19.4	6.2	3.4	10.2	9.5	2.8	3.3	.0	1.0	71.6	71.6
TOT OBS													1604
TOT PCT		17.3	26.2	9.0	8.6	14.8	13.8	4.3	4.3	.0	1.2	100.0	

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	TOT %	.1	.1	.0	.0	.1	.0	.0	.1	.0	.0	.4	.4
1/2<1	0-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
1<2	0-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.3	.3
2<5	0-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.1	.2	.1	.2	.3	.1	.0	.0	.0	.0	1.1	1.1
	11-21	.1	.3	.1	.2	.4	.1	.0	.0	.0	.0	1.2	1.2
	22+	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.4	.4
	TOT %	.3	.6	.2	.3	.6	.4	.1	.1	.0	.0	2.8	2.8
5<10	0-5	.1	.1	.1	.2	.1	.1	.1	.1	.0	.3	1.2	1.2
	4-10	1.0	1.8	.7	.7	.7	1.0	.3	.6	.0	.0	7.0	7.0
	11-21	1.7	2.0	.9	.6	1.4	1.3	.3	.3	.0	.0	8.9	8.9
	22+	.1	.3	.4	.3	.3	.7	.3	.0	.0	.0	2.9	2.9
	TOT %	3.0	4.3	2.1	1.9	2.7	3.0	1.2	1.1	.0	.3	19.3	19.3
10+	0-5	1.2	1.2	.4	.7	.3	.6	.0	1.0	.0	2.1	8.6	8.6
	4-10	7.0	8.3	3.7	3.2	3.7	3.3	2.0	3.1	.0	.0	34.6	34.6
	11-21	3.3	7.1	1.9	1.4	4.0	3.3	1.2	1.8	.0	.0	28.4	28.4
	22+	.6	.9	.3	.2	.8	1.4	.4	.3	.0	.0	5.2	5.2
	TOT %	14.3	17.2	6.2	5.8	9.2	11.3	4.3	6.1	.0	2.1	76.8	76.8
TOT OBS													3677
TOT PCT		17.7	22.2	8.7	8.2	12.7	14.9	5.9	7.4	.0	2.4	100.0	

JUNE

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1870-1973

AREA 0010 FLORIANOPOLIS
26.6S 49.7W

TABLE 10

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

HR	000	100	200	300	400	500	600	700	800	900	1000	1500	2000	3000	4000	5000	6000	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	1.4	.0	.7	7.8	8.4	3.7	2.7	1.7	.0	.3	26.7	73.3	296							
0600	2.1	.0	1.4	7.4	11.7	3.0	3.2	1.1	.4	.4	32.6	67.4	282							
1200	.3	.6	2.1	8.0	14.6	7.4	3.9	1.3	.3	.0	38.7	61.3	336							
1800	.3	.3	.6	8.1	9.3	4.7	4.3	2.5	.6	.3	31.1	68.9	322							
TOT	12	3	13	97	137	63	44	21	4	3	401	599	1296							
PCT	1.0	.2	1.2	7.8	11.1	5.3	3.6	1.7	.3	.2	32.4	67.6	100.0							

TABLE 11

PERCENT FREQUENCY VSBY (FM) BY HOUR

HR	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	.6	.0	.2	3.4	20.0	76.9	1069
0600	.4	.1	.3	6.0	19.3	73.4	733
1200	.1	.2	.4	3.0	20.2	76.1	1146
1800	.6	.3	.1	2.2	17.8	79.0	773
TOT	18	3	12	105	786	2634	3717
PCT	.4	.1	.3	2.8	19.3	76.8	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NM <5/8	TOTAL OBS
0000	1.4	2.1	10.9	15.8	73.3	296
0600	2.2	3.4	12.0	22.8	65.2	267
1200	.3	3.1	13.6	26.2	60.2	324
1800	.3	1.3	10.3	21.3	68.2	314
TOT	12	29	140	298	792	1190
PCT	1.0	2.4	11.8	21.7	66.6	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
60/80	.0	.1	.0	.0	.2	.1	.0	.0	3	.3
70/70	.0	.0	.1	.1	.8	1.4	1.8	.8	37	4.8
75/74	.0	.0	.1	1.3	4.3	9.0	17.7	11.6	388	44.9
80/69	.0	.0	.1	2.1	6.1	8.0	12.7	8.7	427	33.7
85/64	.0	.0	.3	1.8	3.2	2.4	2.6	2.4	142	11.9
90/59	.0	.0	.1	.6	.6	.9	.3	.3	39	2.4
95/54	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
TOTAL	.0	.0	.6	5.2	17.8	26.8	40.8	28.8	1197	100.0
PCT	.0	.0	.6	4.9	14.9	22.4	33.8	23.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/80	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0
70/70	1.0	2.9	.4	.1	.1	.1	.1	.1	.0	.0
75/74	9.4	17.7	3.3	2.0	2.8	2.8	1.7	1.4	.0	.0
80/69	4.2	6.0	3.2	3.0	7.7	3.6	1.3	1.9	.0	.0
85/64	1.1	.7	.4	.8	2.8	4.4	1.1	.4	.0	.0
90/59	.1	.0	.0	.0	.6	1.2	.3	.1	.0	.1
95/54	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
TOTAL	13.8	27.4	9.6	9.0	14.2	14.3	4.4	3.9	.0	1.3

TABLE 15

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

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	87	76	74	69	60	54	49	68.1	3142
0600	80	73	74	68	60	54	48	67.8	1200
1200	83	79	76	70	60	53	51	69.2	2100
1800	84	79	77	70	62	58	54	69.8	1230
TOT	87	78	79	69	60	53	48	68.7	6861

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	3.6	14.3	21.7	31.6	28.6	61	322
0600	.0	4.3	14.7	16.8	32.3	31.9	61	270
1200	.0	6.4	15.7	23.2	34.6	19.9	70	322
1800	.0	7.3	15.4	26.4	32.4	19.3	78	268
TOT	0	67	106	272	412	294	60	1231

JUNE

PERIOD: (PRIMARY) 1919-1973
(OVER-ALL) 1670-1973

AREA 0010 FLORIANOPOLIS
26.6S 45.7W

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	49 52	53 56	57 60	61 64	65 68	69 72	75 76	77 80	81 84	TOT	M FOG	NO FOG
11/13	.0	.0	.0	.0	.1	.1	.1	.1	.0	5	.0	.4
9/10	.0	.0	.0	.1	.0	.1	.0	.1	.0	4	.0	.3
7/8	.0	.0	.0	.2	.3	.1	.2	.3	.1	17	.0	1.2
6	.0	.0	.0	.0	.1	.1	.1	.1	.1	9	.0	.6
5	.0	.0	.0	.0	.1	.6	.6	.1	.0	18	.0	1.3
4	.0	.0	.0	.1	.5	.9	1.8	.1	.0	47	.0	3.3
3	.0	.0	.0	.0	.4	.6	.9	.1	.0	33	.0	2.3
2	.0	.0	.0	.1	1.1	2.8	2.1	.2	.0	88	.1	6.2
1	.0	.0	.1	.3	1.4	4.0	2.8	.1	.0	121	.3	8.3
0	.0	.0	.0	.6	2.8	8.0	4.8	.0	.0	230	.6	13.8
-1	.0	.0	.1	.9	3.0	6.8	3.1	.1	.0	195	.6	12.3
-2	.0	.0	.1	1.1	3.6	8.0	1.6	.0	.0	172	.4	11.8
-3	.0	.0	.1	1.1	3.0	3.3	.4	.0	.0	111	.4	7.7
-4	.0	.0	.3	.9	2.1	2.9	.3	.1	.0	112	.0	8.0
-5	.0	.0	.1	1.8	2.4	2.0	.3	.0	.0	91	.0	6.3
-6	.0	.0	.3	.7	1.8	.6	.1	.0	.0	48	.0	3.4
-7/-8	.0	.0	.1	1.5	1.3	.6	.0	.0	.0	40	.1	4.1
-9/-10	.0	.1	.4	.6	.4	.1	.0	.0	.0	23	.0	1.6
-11/-13	.1	.1	.4	.4	.1	.1	.0	.0	.0	16	.0	1.1
-14/-16	.0	.0	.1	.1	.1	.0	.0	.0	.0	3	.0	.2
-17/-19	.0	.1	.1	.0	.0	.0	.0	.0	.0	3	.0	.2
-20/-22	.0	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	1	8	41	144	359	557	273	22	2	1407	2.3	1373
PCT	.1	.8	2.9	10.2	25.3	39.6	19.4	1.6	.1	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1968-1973

TABLE 18

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

HGT	N					PCT	NE					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
41	.7	.7	.0	.0	.0	1.3	.3	1.3	.3	.0	.0	2.0
1-2	.7	2.7	.4	.0	.0	3.3	.1	3.7	1.1	.0	.0	6.8
3-4	.0	2.7	2.4	.2	.0	5.6	.0	3.5	4.6	.3	.0	8.4
5-6	.0	.2	3.8	.0	.0	4.0	.0	.3	3.9	.7	.0	3.1
7	.0	.0	.8	.0	.0	.8	.0	.0	2.1	.3	.0	2.6
8-9	.0	.0	.0	.4	.0	.4	.0	.0	.7	.1	.0	.8
10-11	.0	.0	.0	.4	.0	.4	.0	.0	.2	.1	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	6.3	7.3	1.1	.0	15.8	.4	11.0	13.2	1.8	.0	26.3

HGT	E					PCT	SE					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
41	.0	.7	.0	.0	.0	.7	.5	.0	.0	.0	.0	.5
1-2	.4	3.6	.3	.0	.0	4.3	.2	2.4	.0	.0	.0	2.0
3-4	.0	2.1	2.7	.0	.0	4.8	.2	.8	.7	.0	.0	1.7
5-6	.0	.3	1.0	.2	.0	1.7	.0	.2	.3	.0	.0	.7
7	.0	.0	1.4	1.0	.0	2.3	.0	.0	.2	.3	.0	.7
8-9	.0	.0	.0	.4	.2	.7	.0	.0	.2	.3	.0	.7
10-11	.0	.0	.0	.4	.0	.4	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	6.9	9.3	1.6	.2	14.6	1.0	3.4	1.9	1.2	.2	7.7

PERIOD: (OVER-ALL) 1963-1979

JUNE
TABLE 18 (CONT)

AREA 0010 FLORIANOPOLIS
26.63 45.7W

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.2	.0	.0	.0	.0	.4	.5	.5	.0	.0	.0	.0	1.0
1-2	.2	3.2	1.8	.0	.0	.0	5.2	.1	2.0	1.5	.0	.0	.0	3.6
3-4	.0	1.0	3.9	.0	.0	.0	5.9	.0	1.1	2.2	.2	.0	.0	3.7
5-6	.0	.2	1.9	.2	.0	.0	1.9	.0	.3	1.2	.2	.0	.0	1.7
7	.0	.0	.4	.2	.0	.0	.7	.0	.0	.5	.2	.0	.0	.8
8-9	.0	.0	.8	.2	.0	.0	.8	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.2	.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
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.6	8.3	1.0	.0	.0	15.2	.7	3.9	5.6	.8	.0	.0	11.0

HGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
1-2	.4	.6	.7	.0	.0	.0	1.7	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.2	.7	.0	.0	.0	.9	.0	.3	.1	.0	.0	.0	.5
5-6	.0	.2	.4	.0	.0	.0	.7	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	1.3	.0	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.0	2.0	.2	.2	.0	3.8	.0	1.4	1.3	.0	.1	.0	2.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TCT
<1	3.6	3.7	.3	.0	.0	.0	9.7	383
1-2	2.5	21.1	3.8	.0	.0	.0	29.4	
3-4	.2	12.3	17.1	.0	.0	.0	30.0	
5-6	.0	2.1	12.0	1.4	.0	.0	15.3	
7	.0	.0	8.7	2.3	.0	.0	9.0	
8-9	.0	.0	1.8	1.2	.3	.0	3.2	
10-11	.0	.0	.3	1.2	.0	.0	1.6	
12	.0	.0	.0	.3	.0	.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	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-80	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.3	39.4	44.2	7.4	.7	.0	100.0	432

PERIOD: (OVER-ALL) 1979-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-80	87+	TOTAL	48.2W HGT	
4-6	2.2	11.1	13.4	4.6	1.5	.0	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	321	3
6-7	.0	2.0	9.1	9.8	4.6	2.0	1.4	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	276	5
8-9	.0	.4	2.0	4.4	3.3	2.3	1.2	.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	190	7
10-11	.0	.2	.4	1.0	1.2	.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	7
12-13	.0	.0	1.0	.3	.7	.4	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	6
13	.0	.0	.0	.1	.2	.6	.3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	13	9
INBT	2.6	1.8	3.0	1.8	1.3	1.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	112	6
TOTAL	4.8	14.6	27.2	20.6	13.9	7.1	3.9	1.1	1.0	1	0	1	0	0	0	0	0	0	0	0	941	5
PCT	4.8	15.8	28.2	21.9	14.8	7.3	4.1	1.2	1.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1894-1973

AREA 0010 FLORIANOPOLIS
26.83 43.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WMO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SMWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAUL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FGG NO PCPN PAST HR	SMOKE MAZE	SPRAY BLWG DUST	NO SIG WEA
N	.3	.7	.9	.0	.0	.0	.0	2.1	.3	1.3	2.7	.0	1.9	.0	91.8
NE	1.4	.8	.8	.0	.0	.0	.0	2.7	1.2	.3	3.1	.0	3.1	.0	89.3
E	2.8	2.1	.8	.0	.0	.0	.0	5.4	2.2	.0	.4	1.1	2.1	.0	88.7
SE	3.9	4.8	2.0	.0	.0	.0	.0	11.4	3.2	.7	4.3	.0	.8	.0	79.4
S	3.2	1.2	1.1	.0	.0	.0	.0	7.2	3.0	.4	1.1	.0	1.4	.0	87.3
SW	2.1	1.7	1.9	.0	.0	.0	.0	5.7	3.0	1.0	1.0	.0	.8	.0	88.3
W	.0	.0	2.2	.0	.0	.0	.0	2.2	1.1	.0	4.4	.0	2.6	.0	89.8
NW	2.2	1.1	2.4	.0	.0	.0	.0	5.7	1.4	3.3	3.4	1.1	1.9	.0	81.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALP	.0	.0	.0	.0	.0	.0	.0	.0	3.2	3.2	6.3	3.2	3.2	.0	80.6
TOT PCT	2.4	1.3	1.2	.0	.0	.0	.0	4.8	1.9	.8	2.8	.2	1.9	.0	87.9
TOT OBS:	1858														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SMWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAUL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FGG NO PCPN PAST HR	SMOKE MAZE	SPRAY BLWG DUST	NO SIG WEA
0000	2.7	1.3	1.9	.0	.0	.0	.0	5.6	2.1	1.3	2.7	.0	1.3	.0	87.0
0600	2.8	.9	1.4	.0	.0	.0	.0	4.9	2.1	1.6	1.2	.3	.9	.0	88.7
1200	1.8	1.7	.9	.0	.0	.0	.0	4.4	1.3	.4	2.6	.2	3.3	.0	87.9
1800	2.3	1.1	.7	.0	.0	.0	.0	4.1	2.0	.0	3.2	.2	1.6	.0	86.9
TOT PCT	2.4	1.3	1.2	.0	.0	.0	.0	4.8	1.9	.8	2.4	.2	1.9	.0	88.1
TOT OBS:	1889														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WMO DIR	WIND SPEED (KNOTS)						40+	TOTAL OBS	PCT PRGB	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	12	15	18	21	
N	1.1	7.3	6.5	1.3	.0	.0		18.3	11.3		14.9	14.7	16.8	10.0	18.0	16.2	17.6	20.7
NE	1.3	10.8	19.8	3.9	.0	.0		23.4	12.0		23.4	23.0	22.4	23.1	21.4	23.6	23.6	28.4
E	.8	3.5	3.4	.6	.0	.0		9.2	9.2		11.0	10.3	8.3	11.3	6.7	9.4	3.7	9.6
SE	.0	4.7	3.3	.6	.1	.0		6.4	10.8		11.3	11.3	8.8	7.3	7.4	8.6	6.4	9.6
S	.0	4.9	3.3	1.7	.1	.0		13.2	13.0		14.1	12.7	13.1	14.3	13.2	11.6	14.1	8.7
SW	.0	4.3	3.3	2.8	.3	.0		14.1	13.0		13.0	11.2	14.9	11.8	13.6	14.9	14.2	11.3
W	.0	2.1	1.6	.6	.1	.0		3.2	12.1		3.8	3.0	3.0	3.0	6.0	6.8	4.7	3.8
NW	.7	3.2	1.8	.3	.0	.0		6.2	9.9		3.9	3.9	6.4	8.8	6.9	8.2	6.0	3.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALP	3.1							3.1	.0		3.1	2.7	4.3	4.8	3.2	2.9	1.6	1.9
TOT OBS:	638	2739	2403	640	38	4	6340		11.6		1206	760	1141	38	1139	990	1161	32
TOT PCT	10.3	42.1	26.7	9.8	.9	.1	100.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WMO DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT PRGB	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-48					00	06	12	18	21	
N	4.2	8.2	3.6	.3	.0		16.3	11.3		14.9	13.7	17.1	17.7	
NE	3.1	12.3	3.6	.3	.0		23.4	12.0		24.8	22.3	22.3	23.8	
E	3.0	3.2	.9	.1	.0		9.2	9.3		10.8	9.0	7.9	8.8	
SE	2.4	3.4	1.3	.1	.0		9.4	10.8		11.4	8.7	7.9	9.4	
S	2.7	6.4	3.6	.3	.0		13.2	13.0		13.0	13.2	12.3	13.9	
SW	2.8	3.3	4.6	1.3	.1		14.1	13.0		12.3	14.7	13.3	14.1	
W	1.8	1.9	1.2	.3	.1		3.2	12.1		4.3	3.1	6.4	4.8	
NW	2.3	2.8	1.0	.0	.0		6.2	9.9		4.7	6.4	7.3	3.9	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALP	3.1						3.1	.0		3.3	4.3	3.1	1.6	
TOT OBS:	1788	3110	1431	294	16	6340		11.6		1206	1191	1149	1213	
TOT PCT	27.3	47.3	21.9	3.1	.2	100.0				100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1854-1972

JULY

AREA 0010 FLORIANPOLIS
26.65 45.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000Z	3.3	8.0	43.4	34.5	9.5	1.2	.1	11.5	100.0	1996	
0600Z	4.3	7.1	41.9	36.2	10.0	.4	.0	11.3	100.0	1191	
1200Z	3.1	7.3	42.4	37.0	9.4	.7	.0	11.6	100.0	2149	
1800Z	1.6	6.6	39.7	40.2	10.6	1.2	.1	12.3	100.0	1813	
TOT	304	461	2759	2403	640	38	4	11.6		6349	
PCT	3.1	7.3	42.1	36.7	9.8	.9	.1	11.6	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSD	TOTAL OBS	MEAN CLOUD COVER
NE	10.1	5.5	6.3	2.9	3.6	3.6
E	3.3	1.2	3.3	1.8	4.3	4.3
SE	1.3	1.0	2.3	2.4	3.4	3.4
S	3.3	2.3	3.0	4.4	3.1	3.1
SW	4.2	3.1	3.3	4.0	4.7	4.7
W	1.6	.4	.6	.8	3.9	3.9
NW	1.6	.6	1.3	.8	4.3	4.3
VAR	.0	.0	.0	.0	.0	.0
CALM	1.0	.2	.2	.0	3.6	3.6
TOT OBS	461	226	379	238	1324	4.2
TOT PCT	34.8	17.1	26.4	19.5	100.0	

TABLE 6

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

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.2	.3	1.7	1.0	.4	.2	.1	.1	12.6	
NE	.2	.2	.0	1.1	2.9	.9	.6	.2	.1	.0	18.6	
E	.1	.0	.2	.3	1.2	.9	.3	.1	.1	.1	6.4	
SE	.0	.0	.3	.8	1.4	1.1	.3	.0	.0	.0	3.2	
S	.1	.0	.6	1.3	2.9	1.6	.3	.0	.1	.1	7.8	
SW	.2	.0	.4	1.4	2.6	1.4	.9	.1	.0	.2	9.4	
W	.0	.0	.1	.4	.2	.2	.2	.1	.0	.1	2.1	
NW	.2	.0	.0	.1	.7	.2	.3	.2	.0	.1	3.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.2	.2	.1	.0	.0	.0	.0	1.4	
TOT OBS	8	2	23	81	184	98	32	10	5	7	832	1324
TOT PCT	.6	.2	1.9	6.1	13.9	7.4	3.9	.8	.4	.5	64.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>80YD	>0
>OR >3500	.7	.9	.9	.9	.9	.9	.9	.9
>OR >3000	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6
>OR >2500	4.6	3.3	3.6	3.6	3.6	3.6	3.6	3.6
>OR >2000	10.1	12.3	13.0	13.0	13.0	13.0	13.0	13.0
>OR >1500	20.4	26.2	26.9	27.0	27.0	27.0	27.0	27.0
>OR >1000	24.6	32.1	32.9	33.0	33.0	33.1	33.1	33.1
>OR >500	23.2	33.6	34.7	34.8	34.8	34.9	34.9	34.9
>OR >150	23.6	33.9	34.3	34.3	34.3	34.3	34.3	34.3
>OR >0	23.6	34.2	33.2	33.4	33.4	33.5	33.6	33.6
TOTAL	344	437	470	472	472	474	473	473

TOTAL NUMBER OF OBS: 1324

PCT FREQ NH <5/8: 64.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSD	TOTAL OBS
17.2	13.7	13.6	11.4	9.4	6.6	6.7	9.4	13.6	.5	1416

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1854-1973

JULY

AREA 0010 FLORIANOPOLIS
26.63 49.8W

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCY	TOTAL OBS
<1/2	PCP	.0	.1	.1	.*	.1	.*	.0	.0	.0	.0	.2	
	NO PCP	.1	.1	.*	.*	.0	.0	.0	.2	.0	.1	.4	
	TOT %	.1	.1	.1	.*	.1	.*	.0	.2	.0	.1	.6	
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.1	.*	.*	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.0	.1	.*	.*	.0	.0	.2	
1<2	PCP	.0	.0	.0	.1	.*	.0	.0	.0	.0	.0	.2	
	NO PCP	.1	.*	.1	.0	.1	.0	.0	.0	.0	.0	.3	
	TOT %	.1	.*	.1	.1	.1	.0	.0	.0	.0	.0	.5	
7<3	PCP	.1	.1	.1	.*	.1	.*	.0	.2	.0	.0	.6	
	NO PCP	.5	.8	.0	.2	.4	.1	.1	.1	.0	.0	2.2	
	TOT %	.7	.9	.1	.2	.5	.1	.1	.3	.0	.0	2.7	
9<10	PCP	.2	.3	.3	.4	.4	.5	.*	.1	.0	.0	2.6	
	NO PCP	3.9	6.5	2.3	1.8	2.2	3.7	.8	1.1	.0	.3	23.0	
	TOT %	4.1	7.1	2.9	2.2	2.6	4.2	.9	1.2	.0	.3	25.6	
10+	PCP	.1	.0	.*	.3	.4	.4	.*	.0	.0	.0	1.2	
	NO PCP	11.3	17.4	6.3	5.1	11.0	11.1	2.6	3.3	.0	1.1	69.3	
	TOT %	11.3	17.4	6.4	5.4	11.4	11.5	2.7	3.3	.0	1.1	70.5	
TOT OBS													1859
TOT PCT													16.1 25.6 9.6 8.1 14.6 15.8 3.7 5.0 .0 1.7 100.0

TABLE 9

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

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.*	.*	.0	.1	.*	.*	.0	.*	.0	.2	.4	
	4-10	.*	.1	.*	.*	.1	.0	.*	.1	.0	.0	.3	
	11-21	.*	.1	.*	.0	.*	.*	.0	.0	.0	.0	.2	
	22+	.0	.*	.0	.0	.0	.0	.0	.0	.0	.0	.*	
	TOT %	.1	.2	.1	.1	.1	.*	.*	.1	.0	.0	.2	.9
1/2<1	0-3	.0	.0	.0	.0	.0	.*	.0	.0	.0	.0	.*	
	4-10	.0	.0	.0	.0	.0	.0	.*	.*	.0	.0	.*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.*	.0	.*	.*	.*	.0	.0	.0	.1
1<2	0-3	.0	.0	.0	.0	.*	.*	.0	.0	.0	.*	.1	
	4-10	.1	.*	.1	.0	.*	.0	.0	.0	.0	.0	.2	
	11-21	.*	.*	.0	.*	.1	.*	.*	.0	.0	.0	.2	
	22+	.0	.0	.0	.*	.0	.0	.*	.0	.0	.0	.1	
	TOT %	.1	.1	.1	.1	.1	.*	.1	.0	.0	.0	.5	
7<3	0-3	.0	.*	.*	.*	.*	.*	.0	.*	.0	.1	.2	
	4-10	.2	.1	.*	.2	.1	.1	.*	.2	.0	.0	1.0	
	11-21	.2	.2	.1	.2	.3	.2	.*	.*	.0	.0	1.2	
	22+	.1	.1	.1	.1	.1	.2	.*	.1	.0	.0	.7	
	TOT %	.5	.6	.2	.5	.6	.4	.1	.3	.0	.1	3.1	
9<10	0-3	.2	.2	.2	.1	.1	.1	.1	.1	.0	.5	1.6	
	4-10	1.2	1.9	.6	.8	.5	.9	.4	.5	.0	.3	7.1	
	11-21	1.3	1.8	.7	.7	1.2	1.0	.2	.4	.0	.0	7.3	
	22+	.2	.4	.1	.*	.4	1.2	.1	.1	.0	.0	2.4	
	TOT %	2.9	4.3	1.6	1.7	2.4	3.1	.7	1.0	.0	.5	16.4	
10+	0-3	.8	1.1	.5	.6	.6	.4	.5	.5	.0	1.7	6.7	
	4-10	3.9	8.1	4.6	3.3	4.4	3.7	1.6	2.4	.0	.0	34.3	
	11-21	3.2	8.7	2.0	1.8	4.1	3.0	1.3	1.3	.0	.0	28.3	
	22+	.7	1.1	.3	.4	1.1	2.1	.3	.2	.0	.0	6.4	
	TOT %	12.6	19.1	7.4	6.3	10.2	11.2	3.9	4.4	.0	1.7	76.9	
TOT OBS													1889
TOT PCT													16.1 24.2 9.6 8.7 13.8 14.9 4.8 5.8 .0 2.4 100.0

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1854-1973

JULY

APEA 0010 FLORIANPOLIS
26.65 45.8W

TABLE 10

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

HR	000	150	300	600	1000	2000	3000	5000	6500	8000+	TOTAL	NM <5/8	TOTAL
(GMT)	149	299	599	999	1999	3499	4999	6499	7999			ANY HGT	DBS
0000	1.2	.0	2.2	5.3	10.6	5.3	2.1	.3	.0	.0	28.2	71.8	341
0600	.3	.0	1.6	5.1	16.8	3.7	4.4	.9	.3	.3	35.4	64.6	310
1200	.3	.3	1.9	6.8	14.9	8.7	4.3	.5	.3	.3	38.3	61.7	340
1800	.5	.3	1.4	6.3	11.8	8.3	4.4	1.1	.3	.8	35.4	64.6	364
TOT	8	2	25	82	187	99	93	10	5	7	478	911	1389
PCT	.6	.1	1.9	5.9	13.9	7.1	3.8	.7	.4	.5	34.4	65.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL
(GMT)							DBS
0000	.9	.1	.4	3.3	20.0	75.1	1159
0600	.9	.1	.9	3.6	17.4	77.1	782
1200	1.0	.1	.4	2.5	18.4	77.3	1198
1800	.7	.1	.3	3.3	17.3	77.6	897
TOT	3.9	.4	2.5	12.9	72.3	301.0	3920
PCT	.9	.1	.4	3.1	18.4	76.8	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NM <5/8	TOTAL
(GMT)	<5000	<1	<3	AND 3+	AND 3+	DBS
0000	1.2	4.0	11.3	19.9	68.8	327
0600	.3	2.0	9.9	27.7	62.4	303
1200	.0	2.5	11.0	30.0	58.7	333
1800	.4	2.3	11.1	27.0	61.9	332
TOT	7	36	148	350	840	1335
PCT	.5	2.7	10.9	26.2	62.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									DBS	FREQ
80/86	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
75/79	.0	.0	.0	.1	.2	.8	.3	.6	28	1.9
70/74	.0	.0	.1	.9	3.1	7.9	11.1	3.6	402	28.0
65/69	.0	.0	.4	1.4	3.9	8.0	14.3	12.2	608	42.3
60/64	.0	.0	.3	1.1	3.4	4.3	6.6	4.7	326	22.7
55/59	.0	.0	.1	.9	.8	.9	1.1	1.0	83	4.4
50/54	.0	.0	.0	.1	.1	.1	.0	.3	9	.6
TOTAL	0	0	14	33	218	320	480	331	1437	100.0
PCT	.0	.0	1.0	3.7	15.2	22.3	33.4	24.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/86	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
75/79	.4	1.2	.2	.0	.1	.6	.0	.1	.0	.0
70/74	6.7	11.0	2.8	1.0	1.8	1.6	.7	2.1	.0	.2
65/69	6.3	11.7	3.6	4.2	3.2	3.4	1.0	2.0	.0	.7
60/64	2.2	2.3	1.4	2.2	6.0	6.2	1.0	.7	.0	.8
55/59	.1	.1	.1	.3	1.7	1.7	.2	.6	.0	.2
50/54	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0
TOTAL	13.7	26.4	10.1	7.7	14.9	13.4	3.0	4.9	.0	1.9

TABLE 15

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

HR	MAX	95%	90%	50%	50	1%	MIN	MEAN	TOTAL
(GMT)									DBS
0000	77	74	73	67	59	53	50	66.3	2002
0600	78	73	72	66	58	53	47	63.9	1192
1200	84	78	75	68	59	54	48	67.6	2112
1800	84	78	75	69	60	56	51	66.2	1189
TOT	84	77	74	67	59	54	47	67.0	6495

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										DBS
0000	.0	3.6	10.2	21.1	39.3	23.9	82	394		
0600	.0	3.6	13.2	18.2	30.6	33.3	82	333		
1200	.0	5.1	13.4	23.3	32.1	21.1	79	408		
1800	.0	7.1	13.6	23.7	30.7	18.0	78	323		
TOT	0	70	319	325	487	337	80	1438		

JULY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1854-1973

AREA 0010 FLORIANOPOLIS
26.68 45.8W

TABLE 17

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

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	M FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
14/16	.0	.0	.0	.0	.1	.0	.1	.0	.0	2	.0	.1
11/13	.0	.0	.0	.0	.0	.1	.1	.1	.1	4	.0	.3
9/10	.0	.0	.0	.0	.1	.0	.2	.0	.0	4	.0	.3
7/8	.0	.0	.0	.1	.1	.3	.2	.1	.0	17	.1	1.0
6	.0	.0	.0	.0	.1	.1	.1	.0	.0	3	.0	.3
5	.0	.1	.1	.3	.3	.8	.7	.1	.0	41	.0	2.6
4	.0	.3	.1	.5	.8	1.3	.4	.1	.0	33	.1	2.3
3	.0	.1	.0	.4	1.1	.9	.8	.1	.0	32	.2	2.1
2	.0	.0	.1	1.3	2.3	2.2	.9	.1	.0	112	.2	6.9
1	.0	.1	.1	1.3	2.3	3.8	1.8	.0	.0	192	.2	9.4
0	.0	.1	.1	2.1	4.8	6.7	1.1	.0	.0	233	.3	14.2
-1	.0	.0	.3	1.3	4.0	5.2	1.1	.0	.0	188	.2	11.7
-2	.0	.1	.5	2.0	4.0	3.0	.2	.0	.0	159	.3	9.5
-3	.0	.1	.6	2.0	4.3	2.6	.1	.0	.0	156	.3	9.3
-4	.0	.3	.6	2.2	3.7	1.3	.0	.0	.0	129	.2	7.9
-5	.0	.0	.4	1.7	3.8	.8	.1	.0	.0	93	.2	5.7
-6	.0	.1	.6	2.0	.8	.2	.0	.0	.0	56	.1	3.5
-7/-8	.0	.4	.8	2.3	1.3	.1	.0	.0	.0	77	.0	4.9
-9/-10	.0	.2	.5	1.0	.3	.0	.0	.0	.0	31	.1	1.9
-11/-13	.1	.3	.4	.0	.0	.1	.0	.0	.0	18	.0	1.1
-14/-16	.0	.0	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
-17/-19	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	29	81	334	329	473	124	10	1	1368	41	1346
PCT	.1	1.8	5.1	21.1	33.4	30.0	7.8	.6	.1	100.0	2.6	97.4

PERIOD: (OVER-ALL) 1943-1973

TABLE 18

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

PCT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	.1	.0	.0	.0	.0	.0	.2	1.0	.0	.0	.0	.0	1.3
1-2	.0	3.2	1.0	.0	.0	.0	4.1	.2	3.7	1.6	.0	.0	.0	5.3
3-4	.0	1.1	2.9	.0	.0	.0	3.0	.0	2.3	7.3	.4	.0	.0	10.1
5-6	.0	.1	2.3	.0	.0	.0	2.1	.0	.2	3.2	1.2	.0	.0	6.7
7	.0	.0	1.4	.0	.0	.0	2.8	.0	.0	1.8	.4	.0	.0	2.3
8-9	.0	.1	.3	.4	.0	.0	.9	.0	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	6.7	9.1	1.8	.0	.0	16.0	.4	7.3	16.3	2.3	.0	.0	26.3

PCT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	.0	.0	.0	.0	.0	.0	.2	.4	.0	.0	.0	.0	.7
1-2	.0	2.9	.4	.0	.0	.0	3.7	.0	2.3	.0	.0	.0	.0	2.3
3-4	.0	1.8	1.4	.0	.0	.0	3.2	.0	1.1	1.1	.0	.0	.0	2.3
5-6	.0	.2	1.3	.1	.0	.0	1.9	.0	.0	.6	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.2	.5	.0	.0	.1	.0	.0	.2	.4	.0	.0	.1
10-11	.0	.0	.1	.2	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.4	4.4	1.6	.0	.0	11.8	.3	4.1	2.0	.8	.0	.0	7.1

PERIOD: (OVER-ALL) 1943-1973

JULY
TABLE 10 (CONT)

AREA 0010 FLORIANOPOLIS
26.68 43.8W

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

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
41	.3	.2	.0	.0	.0	.0	.5	.4	.8	.0	.0	.0	.0	.0	1.0	
1-2	.4	3.2	1.1	.0	.0	.0	4.7	.0	2.3	.4	.0	.0	.0	.0	2.7	
3-4	.0	1.8	1.2	.1	.0	.0	3.1	.0	1.4	2.0	.2	.0	.0	.0	3.7	
5-6	.0	.1	2.5	.3	.0	.0	3.0	.0	.6	3.7	1.3	.0	.0	.0	5.5	
7	.0	.0	.7	.1	.0	.0	.8	.0	.0	.6	.0	.4	.0	.0	1.1	
8-9	.0	.4	.0	.0	.0	.0	.7	.0	.0	.8	.0	.2	.0	.0	1.6	
10-11	.0	.0	.1	.2	.0	.0	.3	.0	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	9.7	6.3	1.0	.0	.0	13.7	.4	4.8	7.6	2.3	1.0	.0	.0	16.3	

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
41	.3	.1	.0	.0	.0	.0	.3	.2	1.4	.0	.0	.0	.0	.0	1.7	
1-2	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	1.7	
3-4	.0	.2	.0	.0	.0	.0	.2	.0	.8	.7	.0	.0	.0	.0	1.3	
5-6	.0	.0	.7	.0	.2	.0	.9	.0	.0	.1	.2	.0	.0	.0	1.4	
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	.0	.0	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	.8	1.3	.2	.2	.0	2.8	.2	2.9	1.1	.4	.0	.0	.0	4.7	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
41	8.8	3.4	.0	.0	.0	.0	7.2	88
1-2	1.3	19.6	4.6	1.0	.0	.0	23.7	
3-4	.0	10.3	18.3	1.0	.0	.0	29.7	
5-6	.0	1.3	18.3	3.6	.2	.0	21.7	
7	.0	.0	9.7	1.0	.4	.0	8.0	
8-9	.0	.0	1.9	2.1	.2	.0	4.9	
10-11	.0	.0	.4	1.1	.0	.0	1.3	
12	.0	.0	.2	.4	.2	.0	.8	
13-16	.0	.0	.0	.2	.2	.0	.4	
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	
71-84	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.3	35.6	47.3	10.8	1.1	.0	100.0	326

PERIOD: (OVER-ALL) 1943-1973

TABLE 10

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

PERIOD (SEC)	41	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	71-84	87+	TOTAL	MEAN HGT	
40	2.2	4.8	18.0	7.0	2.7	1.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	336	3
40-7	.1	1.8	8.4	11.3	5.1	1.9	.9	.3	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	333	3
8-9	.2	.7	1.3	3.2	3.2	2.2	.7	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	182	7
10-11	.0	.0	.7	.4	1.3	1.4	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	7
12-13	.0	.0	.4	.2	.1	.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	9
13-19	.0	.0	.0	.1	.0	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	13
14-17	1.8	1.3	2.9	2.1	1.0	.8	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	109	4
TOTAL	4.4	14.6	28.9	27.9	14.4	11.2	4.8	2.4	1.4	.3	1	1	.0	.0	.0	.0	.0	.0	.0	.0	1073	3
PCT	4.1	13.6	25.8	24.1	13.3	10.4	4.5	2.2	1.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1853-1972

AUGUST

AREA 0010 FLORIANOPOLIS
26.65 45.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZB PCPN	SNOW	OTHER FRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	BLWG DUST	SPRAY BLWG SNOW	NO SIG WEA
N	1.4	.0	.0	.0	.0	.0	.0	2.2	1.8	2.2	2.3	.0	1.8	.0	.0	89.7
NE	.9	.9	.0	.0	.0	.0	.0	1.8	.9	1.7	1.1	.2	2.9	.0	.0	91.7
E	3.7	.3	.0	.0	.0	.0	.0	8.0	.6	.0	1.4	.0	3.5	.0	.0	88.8
SE	2.2	2.1	1.8	.0	.0	.0	.0	3.8	2.3	.6	.6	.0	2.4	.0	.0	88.1
S	3.7	2.6	1.6	.0	.0	.0	.0	8.1	2.2	.0	1.7	.0	.5	.0	.0	87.4
SW	3.5	6.8	2.0	.0	.0	.0	.0	12.3	1.6	.6	3.3	.8	1.8	.0	.0	79.8
W	.0	8.6	.0	.0	.0	.0	.0	8.6	1.6	1.2	3.1	.0	1.6	.0	.0	82.0
NW	3.4	1.7	1.7	.0	.0	.0	.0	6.7	.4	1.7	3.0	.0	.4	.0	.0	85.7
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	3.8	3.8	3.8	.0	.0	.0	.0	88.5
TOT PCT	2.4	2.1	.9	.0	.0	.0	.0	3.4	1.4	1.1	2.0	.1	2.1	.0	.0	88.0
TOT OBS:	1646															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZB PCPN	SNOW	OTHER FRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	BLWG DUST	SPRAY BLWG SNOW	NO SIG WEA
0000	2.7	3.0	.7	.0	.0	.0	.0	6.4	1.4	2.7	1.7	.2	1.7	.0	.0	85.9
0600	3.4	1.8	1.6	.0	.0	.0	.0	6.7	1.8	1.0	2.3	.0	1.3	.0	.0	87.0
1200	2.4	2.4	.2	.0	.0	.0	.0	3.0	1.1	.7	2.8	.0	1.7	.0	.0	88.7
1800	1.4	1.2	.9	.0	.0	.0	.0	3.8	1.2	.5	1.2	.2	3.3	.0	.0	90.2
TOT PCT	2.4	2.1	.8	.0	.0	.0	.0	3.4	1.4	1.2	2.0	.1	2.0	.0	.0	88.0
TOT OBS:	1680															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.0	6.1	3.8	1.1	.0	.0	13.7	11.6	12.4	13.7	13.9	17.7	19.3	19.2	13.7	11.4
NE	1.2	9.7	11.0	3.1	.2	.0	23.2	13.1	27.6	24.2	28.0	21.9	23.3	20.8	23.1	20.3
E	.6	3.7	4.3	1.1	.1	.0	11.9	12.1	13.8	13.1	11.3	8.3	11.1	11.7	10.9	10.2
SE	.6	3.2	4.2	1.6	.1	.0	11.2	12.0	12.0	12.2	11.0	2.1	10.4	10.9	11.0	9.7
S	.9	4.0	3.3	1.7	.4	.0	13.3	13.6	14.5	10.9	12.3	17.7	12.3	13.3	13.1	13.9
SW	.7	3.0	4.6	3.3	.7	.1	13.4	16.6	10.8	13.0	12.6	14.1	14.0	12.7	14.1	13.9
W	.6	1.8	1.1	.8	.1	.1	4.2	14.0	3.0	4.3	3.7	3.3	4.3	3.7	4.1	6.8
NW	.4	2.6	1.4	.2	.0	.0	4.6	10.0	2.9	3.9	3.6	7.8	4.8	6.0	4.3	3.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6						2.6	.0	2.9	2.3	3.7	2.1	2.3	2.6	1.7	.0
TOT OBS	338	2402	2432	820	109	12	4333	12.7	1160	793	1132	48	1187	930	1199	44
TOT PCT	8.2	39.8	37.3	12.6	1.7	.2	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	03	09	15	21
N	3.3	7.0	3.1	.3	.0	13.7	11.6	12.9	14.1	14.3	13.6	
NE	4.6	12.9	6.7	1.0	.0	23.2	13.1	27.0	23.6	23.4	24.9	
E	2.6	6.3	2.3	.4	.0	11.9	12.1	13.3	11.2	11.3	10.8	
SE	2.6	3.3	2.7	.3	.0	11.2	12.0	12.1	10.7	10.7	11.0	
S	2.8	6.2	3.1	.9	.1	13.3	13.6	13.0	12.6	12.8	13.3	
SW	2.2	4.7	4.4	1.8	.3	13.4	16.6	11.7	12.7	14.8	14.2	
W	1.1	1.7	.9	.4	.1	4.2	14.0	3.6	3.9	4.9	4.2	
NW	1.3	2.6	.3	.0	.0	4.6	10.0	3.3	3.7	3.3	4.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.6					2.6	.0	2.8	3.7	2.4	1.6	
TOT OBS	1318	3071	1374	336	34	6333	12.7	1933	1200	2137	1243	
TOT PCT	23.2	47.0	24.1	3.1	.3	100.0		100.0	100.0	100.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1913-1972
(COVER-ALL) 1933-1972

AREA 0010 FLORIANOPOLIS
26.83 45.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	2.8	5.6	40.6	36.8	12.7	1.4	.1	12.7	100.0	1933
0400	3.7	5.6	39.3	38.8	11.3	1.3	.2	12.3	100.0	1200
1213	2.4	5.6	38.8	37.9	12.9	2.0	.2	13.0	100.0	2137
1821	1.6	5.6	40.9	36.9	13.0	1.9	.2	12.9	100.0	1243
TOT	170	388	2802	2492	820	109	12	12.7		6920
PCT	2.6	5.6	39.8	37.3	12.6	1.7	.2	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	10.1	6.3	7.3	3.8	4.1	4.1
E	3.3	1.9	3.3	2.4	4.3	4.3
SE	2.3	2.0	2.4	3.4	3.1	3.1
S	3.3	1.5	3.8	6.9	3.6	3.6
SW	2.3	1.3	3.8	3.7	3.1	3.1
W	.7	.5	.8	1.0	3.2	3.2
NW	1.3	.5	.9	.8	4.2	4.2
VAR	.0	.0	.0	.0	.0	.0
CALM	.7	.3	.2	.2	3.2	3.2
TOT OBS	388	201	342	333	1246	4.6
TOT PCT	29.3	16.1	27.6	26.9	100.0	

TABLE 6

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

WIND DIR	CEILING HEIGHTS (FT)										NH <4/8 ANY HGT	TOTAL OBS
	000	130	300	600	1000	2000	3500	5000	6500	8000+		
N	.2	.0	.2	.8	2.0	1.3	.8	.2	.0	.1	9.9	
NE	.2	.1	.4	1.6	3.2	1.6	1.6	.1	.3	.1	20.3	
E	.1	.0	.2	.6	1.2	1.2	.5	.2	.1	.1	6.7	
SE	.1	.0	.1	1.3	1.2	.7	.7	.2	.0	.0	3.7	
S	.0	.2	.5	1.9	3.0	1.6	1.1	.1	.0	.2	7.2	
SW	.2	.0	.8	1.0	1.4	1.4	1.2	.2	.1	.8	9.0	
W	.1	.0	.0	.2	.2	.3	.2	.0	.0	.1	1.4	
NW	.8	.1	.1	.3	.3	.3	.3	.0	.0	.8	2.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.2	.1	.0	.0	.0	.0	.0	1.1	
TOT OBS	17	3	16	53	166	104	80	14	6	7	743	
TOT PCT	1.0	.2	1.3	7.6	13.3	6.3	6.4	1.1	.5	.6	99.6	

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>8	>2	>1	>1/2	>1/4	>3000	>0
>6500	.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>5000	1.3	2.0	2.0	2.1	2.1	2.1	2.1	2.1
>3500	6.4	8.3	8.3	8.7	8.7	8.7	8.7	8.7
>2000	11.8	16.2	16.9	17.2	17.2	17.2	17.2	17.2
>1000	20.2	28.9	30.1	30.4	30.4	30.5	30.5	30.5
>400	34.9	39.8	37.3	37.6	37.6	37.7	37.7	37.7
>300	23.3	34.7	38.4	38.8	38.8	38.8	38.8	38.8
>150	22.3	36.9	38.6	39.0	39.0	39.1	39.1	39.1
>0	22.4	37.1	39.3	39.8	39.9	40.0	40.0	40.0
TOTAL	320	467	493	501	502	503	503	504

TOTAL NUMBER OF OBS: 1239

PCT FREQ NH <4/8: 40.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.7	10.2	12.9	9.6	7.3	5.6	6.0	6.5	16.6	.7	1947

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1853-1972

AUGUST

AREA 0010 FLORIANOPOLIS
26.85 49.74

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.1	.0	.0	.1	.0	.0	.0	.0	.1	.3	.3
	TOT S	.1	.1	.0	.0	.1	.0	.0	.0	.0	.1	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT S	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.2	.1	.1	.2	.4	.1	.0	.0	.0	.1	1.0
	TOT S	.1	.2	.1	.1	.2	.4	.1	.0	.0	.0	.1	1.0
2<5	PCP	.0	.1	.1	.2	.2	.3	.0	.1	.0	.0	.4	.4
	NO PCP	.0	.2	.1	.1	.4	.3	.2	.2	.0	.0	.2	2.0
	TOT S	.0	.2	.1	.3	.6	.7	.2	.3	.0	.0	.6	2.4
5<10	PCP	.2	.3	.4	.3	.7	1.1	.3	.1	.0	.0	.3	3.2
	NO PCP	4.6	6.2	2.0	1.6	3.7	3.6	1.0	.9	.0	.4	24.0	24.0
	TOT S	4.8	6.5	2.4	1.9	4.4	4.7	1.3	1.0	.0	.4	27.2	27.2
10+	PCP	.1	.1	.2	.1	.3	.1	.1	.1	.0	.0	.1	1.2
	NO PCP	9.3	20.2	8.2	7.8	9.7	6.6	2.3	2.2	.0	.7	47.2	47.2
	TOT S	9.4	20.3	8.3	7.9	10.0	6.7	2.4	2.3	.0	.7	48.4	48.4
TOT OBS													1844
TOT PCT													14.9 27.4 11.0 10.2 19.0 12.4 3.9 3.4 .0 1.6 100.0

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.2	.2	.0	.0	.1	.1	.0	.0	.0	.0	.1	.6
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	.1	.0	.0	.1	.1	.0	.0	.0	.4	.4
	11-21	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.4	.4
	22+	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.3	.3
	TOT S	.1	.2	.2	.1	.1	.2	.1	.0	.0	.0	1.2	1.2
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.3	.3	.2	.2	.2	.2	.1	.2	.0	.0	1.7	1.7
	11-21	.4	.4	.3	.2	.2	.2	.1	.1	.0	.0	1.9	1.9
	22+	.1	.1	.2	.1	.2	.1	.1	.0	.0	.0	.8	.8
	TOT S	.8	.8	.7	.5	.6	.5	.3	.3	.0	.0	4.4	4.4
5<10	0-3	.2	.2	.1	.7	.2	.0	.0	.0	.0	.0	1.7	1.7
	4-10	1.7	1.9	1.2	.8	1.2	1.3	.4	.3	.0	.0	9.1	9.1
	11-21	1.9	2.7	1.2	1.1	1.4	.9	.3	.3	.0	.0	9.7	9.7
	22+	.3	1.1	.5	.4	.7	1.4	.3	.0	.0	.0	5.0	5.0
	TOT S	4.3	6.0	3.0	2.8	3.9	3.7	1.0	.9	.0	.0	25.3	25.3
10+	0-3	.0	.0	.4	.3	.3	.7	.1	.2	.0	1.3	3.3	3.3
	4-10	3.9	6.9	4.3	4.2	3.6	2.4	1.2	1.4	.0	.0	20.2	20.2
	11-21	3.4	6.2	2.9	2.9	3.9	3.6	.8	.8	.0	.0	20.2	20.2
	22+	.7	2.1	.9	.7	1.1	2.3	.4	.1	.0	.0	8.3	8.3
	TOT S	8.9	16.0	8.7	8.2	9.1	8.9	2.6	2.7	.0	1.3	68.4	68.4
TOT OBS													3508
TOT PCT													14.3 29.2 12.9 11.2 13.4 13.4 3.9 3.9 .0 2.1 100.0

AUGUST

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1859-1972

AREA 0010 FLORIANOPOLIS
26.65 45.7W

TABLE 10

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

HOUR (GMT)	000	100	300	600	1000	2000	3000	5000	6000	8000+	TOTAL	NM <8/8 ANY HGT	TOTAL OBS
0000Z	1.3	.3	.7	8.3	10.9	6.0	7.9	1.7	.3	.0	37.4	62.6	302
0600Z	1.0	.3	1.7	3.6	13.9	10.4	3.9	.7	.3	1.4	41.3	58.7	288
1201Z	1.4	.0	2.0	8.3	13.1	10.0	6.0	.9	.3	.3	42.3	57.7	330
1802Z	.0	.3	.0	0.9	13.3	6.9	6.3	1.1	.8	.6	23.9	69.1	363
TOT	12	3	16	95	188	108	85	14	6	7	214	789	1303
PCT	.9	.2	1.2	7.3	12.9	8.3	6.3	1.1	.5	.5	30.4	60.6	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
0000Z	.2	.1	1.2	4.7	26.3	67.3	993
0600Z	.7	.3	1.7	4.3	28.1	67.0	717
1201Z	.9	.1	.8	4.3	28.9	67.0	1063
1802Z	.8	.1	1.0	4.0	23.1	70.7	740
TOT	23	3	41	158	896	2419	3842
PCT	.6	.1	1.2	4.3	23.3	68.3	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 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <8/8 AND 5+	TOTAL OBS
0000Z	1.4	2.8	12.3	26.0	61.6	289
0600Z	1.1	3.6	12.6	36.6	56.8	278
1201Z	1.8	3.2	12.9	30.0	57.1	340
1802Z	.0	.9	10.2	29.0	60.8	332
TOT	13	32	131	364	744	1289
PCT	1.0	2.3	12.0	28.9	59.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.4	.0	.0	.0	3	.4
79/79	.0	.0	.0	.1	.3	1.7	.7	.2	30	2.8
78/74	.0	.0	.0	.7	1.6	6.8	13.9	7.8	386	30.3
69/69	.0	.0	.2	2.6	6.1	8.1	13.1	12.1	362	44.2
60/64	.0	.0	.2	1.0	3.7	4.9	4.6	3.8	130	18.1
59/59	.0	.0	.1	.3	.6	1.3	1.1	.7	52	6.1
50/54	.0	.0	.1	.0	.0	.0	.0	.0	1	.1
TOTAL	0	0	6	61	168	288	443	312	1272	100.0
PCT	.0	.0	.5	4.8	12.6	22.6	33.0	24.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0
79/79	.3	2.1	.2	.0	.0	.0	.0	.1	.0	.0
78/74	6.3	13.6	3.9	1.6	1.6	1.6	.9	1.2	.0	.6
69/69	3.8	11.9	6.2	3.7	6.8	4.3	1.1	1.8	.0	.4
60/64	1.6	1.7	1.1	2.6	4.4	4.7	1.0	.3	.0	.6
59/59	.0	.1	.1	.3	1.0	2.1	.3	.2	.0	.0
50/54	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
TOTAL	14.1	29.4	10.6	10.3	14.0	12.9	3.3	3.7	.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
0000Z	79	74	72	66	59	56	50	66.2	1940
0600Z	78	73	72	66	58	53	52	63.9	1190
1201Z	82	77	75	68	60	56	51	67.3	2081
1802Z	81	78	75	68	60	57	54	67.9	1211
TOT	82	76	73	67	59	56	50	66.9	6430

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	3.7	12.3	15.7	34.7	30.7	62	326
0600Z	.0	4.4	16.3	18.0	32.4	33.8	63	296
1201Z	.0	6.0	14.4	23.1	23.1	21.4	60	380
1802Z	.0	7.6	13.4	29.6	36.0	13.4	78	328
TOT	0	71	163	203	430	319	80	1300

AUGUST

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1854-1972

AREA 0010 FLORIANOPOLIS
26.05 45.7M

TABLE 17

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

AIR-SEA TEMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.2	.1	.0	.1	6	.0	.4
9/10	.0	.0	.0	.0	.1	.1	.1	.2	8	.0	.3
7/8	.0	.0	.0	.2	.3	.1	.3	.0	10	.0	1.1
5	.0	.0	.0	.3	.1	.2	.0	.0	9	.0	.6
4	.0	.1	.1	.3	.9	.9	.1	.0	43	.2	2.7
3	.0	.0	.4	1.0	.8	.9	.1	.0	56	.1	3.6
2	.0	.0	.7	1.9	1.3	1.2	.0	.0	70	.0	5.1
1	.0	.1	1.3	3.2	3.7	1.7	.0	.0	149	.3	9.6
0	.0	.1	1.1	2.9	4.9	2.4	.0	.0	173	.1	11.3
-1	.0	.3	1.7	3.3	6.2	1.3	.0	.0	220	.3	14.8
-2	.1	.2	1.3	4.1	4.3	.3	.0	.0	138	.3	10.2
-3	.1	.3	1.4	3.8	3.8	.2	.0	.0	167	.1	9.7
-4	.2	.4	1.1	3.4	1.7	.1	.0	.0	100	.1	6.3
-5	.2	.3	1.7	3.7	.9	.0	.0	.0	103	.1	6.9
-6	.1	.4	1.1	2.4	.0	.0	.0	.0	39	.0	3.9
-7/+8	.1	.3	1.3	1.9	.1	.0	.0	.0	36	.0	3.7
-9/+10	.1	1.4	2.1	.7	.3	.0	.0	.0	70	.0	4.7
-11/+12	.0	.9	.6	.1	.1	.0	.0	.0	24	.0	1.6
-14/+16	.1	.7	.3	.0	.0	.0	.0	.0	16	.0	1.1
TOTAL	12	.0	243	.0	.0	.0	.0	.0	1	.0	1
PCT	.8	5.9	16.4	33.7	30.2	9.7	.9	.4	1498	1.7	98.3

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

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

MGT	NE					PCT	SE					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
<1	.0	.9	.0	.0	.0	.9	.0	1.0	.2	.0	.0	.0
1-2	.2	3.0	.3	.0	.0	3.4	.0	4.2	2.0	.0	.0	1.0
3-4	.0	.6	2.7	.2	.0	3.3	.2	3.8	7.3	.0	.0	6.1
5-6	.0	.4	1.3	.7	.0	2.4	.2	1.3	3.6	1.3	.0	11.9
7	.0	.2	.7	.7	.0	1.6	.0	.2	3.6	1.3	.0	3.3
8-9	.0	.0	.0	.4	.0	.4	.0	.2	1.6	.0	.0	4.4
10-11	.0	.0	.2	.4	.0	.4	.0	.0	1.0	.0	.0	1.0
12	.0	.0	.2	.0	.0	.2	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
17-19	.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
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.1	3.4	2.3	.0	13.1	.2	11.1	19.0	6.3	.0	34.6

MGT	E					PCT	S					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
<1	.0	.0	.0	.0	.0	.0	.2	.8	.0	.0	.0	.0
1-2	.0	3.1	.6	.0	.0	3.7	.0	1.9	.3	.0	.0	1.0
3-4	.0	.2	1.8	.0	.0	2.0	.0	2.0	.7	.4	.0	2.2
5-6	.0	.3	1.0	.0	.0	1.3	.0	.2	.6	.4	.0	3.1
7	.0	.3	.6	.2	.0	1.1	.0	.3	.2	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
10-11	.0	.0	.0	.4	.0	.4	.0	.0	.2	.1	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.7	3.9	.6	.0	9.2	.2	3.3	2.0	.9	.0	8.3

PERIOD: (OVER-ALL) 1963-1972

AUGUST

TABLE 18 (CONT)

AREA 0010 FLORIANOPOLIS
26.65 45.7M

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

MGY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.0	.7	.4	.0	.0	.0	1.1	.0	.1	.2	.0	.0	.0	.3
1-2	.0	4.1	1.1	.0	.0	.0	3.4	.0	1.0	.5	.0	.0	.0	1.6
3-4	.0	1.7	1.7	.6	.0	.0	4.0	.0	.9	2.2	.0	.0	.0	3.0
5-6	.0	.4	2.4	.2	.0	.0	3.0	.0	.2	1.3	.2	.0	.0	1.8
7	.0	.0	1.1	.2	.0	.0	1.4	.0	.0	1.0	.5	.0	.0	1.3
8-9	.0	.0	.5	.4	.0	.0	.7	.0	.0	.4	.2	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.2	.2	.0	.2	.0	.0	.0	.2	.1	.0	.3
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
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.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	6.9	7.1	2.0	.2	.0	16.3	.1	2.2	3.8	1.1	.1	.0	9.3

MGY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
01	.2	.0	.0	.0	.0	.0	.2	.1	.3	.0	.0	.0	.0	.3	
1-2	.0	.8	.0	.0	.0	.0	.8	.0	1.4	.2	.0	.0	.0	1.6	
3-4	.0	.2	.4	.2	.0	.0	.7	.0	.3	.5	.1	.0	.0	1.8	
5-6	.0	.4	.2	.0	.0	.0	.6	.0	.0	.3	.2	.0	.0	1.5	
7	.0	.0	.4	.3	.0	.0	.7	.0	.0	.0	.1	.0	.0	1.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
29-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.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	1.4	.9	.5	.0	.0	2.9	.1	2.1	.9	.3	.0	.0	3.6	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGY	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
01	3.3	3.3	.8	.0	.0	.0	9.4	
1-2	.4	16.7	4.9	.0	.0	.0	23.2	
3-4	.2	9.4	17.2	1.8	.0	.0	28.7	
5-6	.0	3.3	12.5	3.3	.0	.0	19.3	
7	.0	1.0	6.6	3.7	.0	.0	11.3	
8-9	.0	.0	1.8	1.0	.0	.0	2.9	
10-11	.0	.0	.6	1.6	.0	.0	2.3	
12	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.9	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-28	.0	.0	.0	.0	.0	.0	.0	
29-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
YLT PCT	4.1	38.9	44.7	12.1	.2	.0	100.0	488

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 MGY
46	3.3	12.3	13.0	5.1	2.1	.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	388	3
6-7	.2	1.8	7.7	10.0	7.4	1.6	1.4	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	316	3
8-9	.0	.4	1.2	4.1	9.7	1.7	2.1	.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	170	7
10-11	.0	.2	.1	.4	1.1	.4	1.1	.5	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	49	9
12-13	.0	.0	.2	.2	.1	.1	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
15	.0	.0	.0	.0	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1046	5
INDBT	2.7	1.9	1.2	1.4	1.7	.8	.3	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	108	
TOTAL	6.5	16.9	24.6	22.2	19.2	5.8	5.6	1.2	2.1	.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	1046	
PCT	6.2	16.2	23.3	21.2	18.4	5.3	5.4	1.1	2.0	.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1857-1973

AREA 0010 FLORIANOPOLIS
26.85 45.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN THAI	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG SEA
N	2.6	1.1	1.6	.0	.0	.0	.0	5.3	.8	2.0	3.8	.0	1.7	.0	89.1
NE	2.9	.9	2.2	.0	.0	.0	.0	3.4	1.2	1.7	3.1	.0	3.1	.0	89.1
E	3.4	2.7	2.7	.0	.0	.0	.0	7.1	1.6	1.9	2.4	.0	1.1	.0	89.7
SE	3.7	1.6	2.3	.0	.0	.0	.0	12.6	2.8	2.3	1.1	.0	1.9	.0	80.3
S	3.0	.6	3.7	.0	.0	.0	.0	7.3	2.9	1.7	1.9	.0	.0	.0	89.4
SW	4.7	2.2	2.0	.0	.0	.0	.0	8.9	3.6	1.1	6.3	.0	3.4	.0	76.6
W	8.9	3.9	2.3	.0	.0	.0	.0	15.2	3.9	1.5	3.5	.0	1.6	.0	74.3
NW	8.2	1.9	2.9	.0	.0	.0	.0	11.1	2.4	6.7	2.9	.0	3.8	.0	73.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.8	.0	.0	.0	.0	.0	.0	11.8	.0	11.8	.0	.0	3.9	.0	76.5
TOT PCT	4.0	1.4	2.6	.0	.0	.0	.0	7.8	2.1	2.0	3.6	.1	2.4	.0	82.0
TOT OBS:	1673														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG SEA
0800	4.1	1.7	2.7	.0	.0	.0	.0	8.5	1.9	4.4	2.4	.0	3.4	.0	80.1
0800	4.8	1.4	3.1	.0	.0	.0	.0	9.3	1.9	3.1	3.6	.0	1.0	.0	82.1
1215	3.7	1.9	2.1	.0	.0	.0	.0	7.3	2.1	.6	3.6	.0	2.8	.0	84.3
1600	4.1	.2	2.9	.0	.0	.0	.0	7.3	2.2	.2	4.9	.2	2.4	.0	89.0
TOT PCT	4.2	1.3	2.7	.0	.0	.0	.0	8.1	2.0	2.0	3.6	.1	2.3	.0	82.4
TOT OBS:	1715														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.6	4.6	4.7	1.1	.2	.6	11.1	12.6	9.3	11.9	10.2	14.0	12.0	13.1	10.4	17.9	
NE	1.7	8.7	11.4	3.4	.3	.0	24.9	13.7	23.4	25.1	23.9	40.9	24.3	21.9	23.2	26.9	
E	.7	6.6	8.2	1.3	.0	.0	13.9	11.9	14.7	13.3	13.4	12.9	13.4	14.1	11.9		
SE	.3	7.3	3.3	1.0	.1	.0	14.1	11.4	13.4	14.3	13.9	.0	13.9	14.3	13.1	19.6	
S	.9	6.2	6.2	2.0	.3	.0	13.5	13.1	13.2	14.9	13.2	12.8	13.9	13.1	17.4	14.9	
SW	.4	4.7	4.1	1.8	.3	.0	11.3	13.8	10.1	10.6	11.6	12.2	11.4	12.3	11.6	8.3	
W	.4	1.8	.9	.3	.1	.0	3.4	10.7	2.3	2.2	3.9	1.8	4.4	3.9	3.3	.0	
NW	.4	2.1	1.1	.3	.0	.0	3.8	9.4	2.3	3.2	3.8	4.9	4.6	3.4	3.1	1.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.0						2.0	.0	1.3	2.7	2.2	.0	2.3	2.6	1.6	.0	
TOT OBS	430	2983	2399	685	79	3	4101	12.4	1074	743	1128	41	1136	898	1117	42	
TOT PCT	7.0	41.8	38.8	11.1	1.3	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 4A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	09	12	18
N	2.3	3.8	2.3	.4	6	11.1	12.6	10.3	10.4	12.3	10.7
NE	4.1	12.1	7.7	1.0	6	23.9	13.7	23.4	23.3	23.4	23.2
E	3.2	7.5	2.9	.3	.0	13.9	11.6	13.0	13.3	13.1	14.0
SE	3.4	8.0	2.3	.4	.0	14.1	11.4	13.0	13.4	14.1	13.3
S	3.3	7.2	4.0	.7	.1	13.5	13.1	16.8	13.1	13.6	17.3
SW	2.4	4.9	3.1	.8	.1	11.3	13.8	10.3	11.6	11.8	11.3
W	1.3	1.6	.6	.1	.0	3.4	10.7	2.4	3.8	4.2	3.4
NW	1.3	1.8	.4	.0	.0	3.8	9.4	2.8	3.8	3.0	3.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0					2.0	.0	1.9	2.1	2.4	1.6
TOT OBS	1470	3007	1433	234	13	6181	12.4	1821	1169	2032	1139
TOT PCT	23.8	48.6	23.3	3.8	.2	100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1962-1973

AREA 0010 FLORIANOPOLIS
26.6E 45.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						4+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
0000Z	1.9	4.6	42.3	38.4	10.8	1.0	-1	12.4	100.0	1321	
0400Z	2.1	3.1	42.3	37.0	12.2	1.0	0	12.2	100.0	1169	
1200Z	2.4	3.8	41.7	38.1	10.6	1.4	0	12.2	100.0	2032	
1600Z	1.6	3.8	42.2	38.3	11.3	.8	-1	12.7	100.0	1139	
TOT	126	384	2385	2399	685	79	3	12.4		6181	
PCT	2.0	4.9	41.8	38.8	11.1	1.2	0		100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
NE	8.3	5.3	7.7	8.5	4.7	4.7
E	2.4	1.6	2.8	4.0	3.3	3.3
SE	2.3	1.7	3.1	3.2	3.5	3.5
S	4.3	2.3	4.4	3.8	3.0	3.0
SW	3.3	2.6	2.3	4.0	4.7	4.7
W	1.4	.9	1.7	1.2	4.3	4.3
NW	.6	.6	.7	.6	4.8	4.8
VAR	.0	.0	.0	.0	.0	.0
CALM	.4	.0	.2	.4	3.4	3.4
TOT OBS	332	282	299	406	1239	4.9
TOT PCT	26.8	16.3	24.1	32.8	100.0	

TABLE 6

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

WIND DIR	000	100	300	600	1000	2000	3000	5000	8000+	NM <5/8 ANY HGT	TOTAL OBS
M	.1	.0	.2	1.1	1.3	.6	.7	.0	.0	.1	6.3
NE	.3	.0	1.0	2.7	3.8	2.3	1.5	.4	.2	.1	17.2
E	.2	.0	.3	1.0	2.1	1.4	.6	.0	.1	.0	3.0
SE	.4	.0	.6	1.5	1.9	1.3	.9	.1	.2	.0	3.7
S	.3	.1	.4	2.1	2.3	1.3	.9	.2	.1	.0	9.2
SW	.6	.0	.1	1.6	1.4	.7	.5	.4	.0	.1	7.0
W	.0	.0	.1	.4	.3	.1	.4	.0	.0	.0	2.3
NW	.0	.0	.1	.1	.2	.2	.7	.0	.0	.0	1.7
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	29	1	36	132	166	101	67	13	9	3	682
TOT PCT	2.3	.1	2.9	10.7	12.4	3.2	3.4	1.0	.7	.2	33.0

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>8	>6	>4	>3	>1/2	>1/4	>0.0
>3000	.9	.9	.9	.9	1.0	1.0	1.0	1.0
>2000	1.8	1.8	1.9	1.9	2.1	2.1	2.1	2.1
>1000	4.8	6.2	7.2	7.2	7.4	7.4	7.4	7.4
>500	9.7	13.7	13.4	13.4	13.7	13.7	13.8	13.8
>100	13.2	20.3	20.8	20.1	20.4	20.4	20.4	20.4
>50	24.9	33.4	33.1	33.6	33.8	33.8	33.9	33.9
>30	34.8	37.8	42.1	42.8	42.8	42.8	42.9	42.9
>15	36.3	37.8	42.2	42.6	42.9	42.9	43.0	43.0
>8	33.1	39.7	43.8	44.6	43.0	43.1	43.2	43.3
TOTAL	314	46	348	338	362	364	363	364

TOTAL NUMBER OF OBS: 1239

PCT FREQ NM <5/8: 34.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS
14.6	18.8	19.1	10.4	8.1	3.1	6.2	9.4	23.2	132

SEPTEMBER

PERIOD: (PRIMARY) 1919-1973
(OVER-ALL) 1862-1973

AREA 0010 FLORIANOPOLIS
26.6S 43.8W

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.2	.1	.0	.0	.1	.0	.0	.0	.0	.4	
	TOT %	.0	.2	.1	.0	.0	.1	.0	.0	.0	.0	.5	
1/2<1	PCP	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	NO PCP	.1	.4	.0	.1	.0	.1	.0	.1	.0	.0	.8	
	TOT %	.1	.5	.0	.1	.0	.1	.1	.0	.0	.0	1.0	
1<2	PCP	.1	.2	.1	.1	.0	.2	.0	.0	.0	.0	.6	
	NO PCP	.1	.4	.1	.1	.1	.3	.0	.1	.0	.0	1.2	
	TOT %	.2	.6	.2	.1	.1	.5	.0	.1	.0	.0	1.8	
2<5	PCP	.1	.5	.2	.2	.3	.2	.2	.0	.0	.1	1.9	
	NO PCP	.9	1.3	.8	.6	.4	.7	.3	.2	.0	.1	3.0	
	TOT %	1.0	1.8	.7	.9	.7	.9	.5	.2	.0	.1	4.9	
5<10	PCP	.3	.7	.4	1.2	.5	.3	.2	.3	.0	.1	3.9	
	NO PCP	3.8	6.8	3.8	3.6	3.6	2.8	1.0	.9	.0	.2	23.4	
	TOT %	3.1	7.5	4.1	4.0	4.1	3.1	1.2	1.2	.0	.3	27.3	
10+	PCP	.1	.1	.3	.1	.2	.2	.2	.1	.0	.0	1.3	
	NO PCP	6.4	17.7	7.3	6.8	11.0	6.3	1.8	1.3	.0	.6	39.4	
	TOT %	6.5	17.8	7.6	6.9	11.2	6.5	2.0	1.6	.0	.6	40.7	
TOT OBS													1673
TOT PCT													10.9 26.4 12.7 12.8 16.2 11.1 9.8 3.1 .0 1.0 100.0

TABLE 9

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

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.2	.0	.0	.0	.1	.0	.1	.0	.0	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.3	
	4-10	.1	.1	.1	.1	.1	.2	.0	.1	.0	.0	.8	
	11-21	.2	.3	.0	.2	.1	.1	.0	.0	.0	.0	1.0	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.3	.6	.2	.3	.3	.3	.1	.1	.0	.1	2.2	
2<5	0-3	.1	.1	.1	.0	.1	.0	.1	.0	.0	.1	.6	
	4-10	.9	.7	.3	.4	.3	.3	.2	.2	.0	.0	3.2	
	11-21	.4	1.1	.3	.4	.3	.4	.3	.1	.1	.0	2.9	
	22+	.1	.4	.1	.1	.2	.1	.0	.0	.0	.0	1.0	
	TOT %	1.1	2.2	1.1	.9	1.0	.7	.4	.4	.0	.1	7.8	
5<10	0-3	.2	.3	.2	.1	.2	.2	.0	.1	.0	.4	1.6	
	4-10	1.3	2.3	1.3	1.3	1.3	1.0	.7	.3	.0	.0	10.7	
	11-21	1.9	3.0	1.7	1.6	1.7	1.0	.3	.4	.0	.0	11.1	
	22+	.4	1.3	.4	.3	.9	.8	.1	.0	.0	.0	4.3	
	TOT %	3.4	7.0	3.9	3.7	4.0	2.9	1.1	1.1	.0	.4	27.1	
10+	0-3	.2	.6	.3	.2	.6	.1	.1	.2	.0	.9	3.2	
	4-10	2.9	5.8	4.8	3.9	4.0	3.1	1.1	1.2	.0	.0	26.9	
	11-21	3.1	8.0	3.1	2.7	4.6	3.1	.9	.6	.0	.0	26.1	
	22+	.3	1.6	.6	.3	1.1	1.2	.2	.1	.0	.0	5.6	
	TOT %	6.7	15.0	8.8	7.1	10.3	7.5	2.3	2.1	.0	.9	61.7	
TOT OBS													3473
TOT PCT													11.6 26.1 19.6 12.2 15.6 11.4 3.9 3.8 .0 1.3 100.0

SEPTEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1867-1973

AREA 0010 FLORIANOPOLIS
28.6S 45.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NM >4/8) AND OCCURRENCE OF NM <3/8 BY HOUR

HOUR (GMT)	000	150	300	400	1000	2000	3500	5000	6500	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
0000Z	2.9	.0	3.6	7.8	13.0	7.1	5.2	1.0	1.3	.6	42.3	37.5	308
0600Z	1.0	.0	3.9	11.8	14.1	9.2	3.3	.7	.7	.0	46.7	33.3	304
1201Z	1.7	.0	1.7	12.1	13.2	7.8	6.3	1.1	.6	.3	44.8	35.2	348
1802Z	3.2	.3	2.6	8.8	12.4	7.9	4.4	1.3	.3	.0	41.5	38.3	340
TOT	29	1	38	132	171	104	69	14	9	3	370	330	1300
PCT	2.2	.1	2.9	10.2	13.2	8.0	5.3	1.1	.7	.2	43.8	36.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000Z	.9	.6	2.3	7.6	28.0	60.6	987
0600Z	.8	.7	1.3	8.1	30.0	39.1	741
1201Z	.6	.6	2.6	8.2	26.4	61.7	1063
1802Z	.6	.8	2.3	7.3	24.0	64.6	724
TOT	22	23	79	276	953	2161	3517
PCT	.7	.7	2.2	7.8	27.1	61.4	100.0

TABLE 12

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

HOUR (GMT)	<1300 <3000	<1000 <1	1000+ AND 3+	NM <3/8 AND 3+	TOTAL OBS
0000Z	3.1	7.3	19.7	26.9	294
0600Z	1.0	3.3	24.6	29.0	293
1201Z	2.1	3.9	21.3	26.6	333
1802Z	3.4	7.3	20.7	23.2	328
TOT	30	73	270	329	651
PCT	2.4	6.0	21.6	26.3	32.1

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 FRQ
80/84	.0	.0	.0	.0	.0	.2	.0	.0	2	.2
75/79	.0	.0	.1	.4	.3	1.1	.8	.5	41	3.1
70/74	.0	.0	.2	1.0	2.4	6.3	13.4	10.6	448	34.1
65/69	.0	.0	.2	3.3	6.6	10.3	13.0	13.2	613	46.6
60/64	.0	.0	.1	1.1	3.0	3.0	3.1	3.4	180	13.7
55/59	.0	.0	.0	.1	.3	.9	.3	.3	28	2.1
50/54	.0	.0	.0	.0	.0	.2	.1	.1	3	.2
TOTAL	.0	.0	.4	74	166	267	410	370	1319	100.0
PCT	.0	.0	.3	5.6	12.6	21.0	31.2	28.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
75/79	.3	1.2	.3	.2	.3	.3	.0	.1	.0	.0
70/74	3.6	14.3	4.0	2.1	2.9	1.9	1.2	1.4	.0	.3
65/69	4.3	11.7	7.0	6.8	7.3	3.4	2.0	1.2	.0	.2
60/64	1.0	1.2	1.2	2.7	4.7	2.0	.3	.4	.0	.1
55/59	.0	.0	.2	.1	.8	.8	.1	.0	.0	.1
50/54	.0	.0	.1	.0	.1	.0	.1	.0	.0	.0
TOTAL	11.3	28.7	12.9	12.0	16.3	10.6	3.9	3.1	.0	1.2

TABLE 15

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

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	77	74	72	67	61	58	48	67.0	1818
0600Z	77	73	72	67	60	59	47	66.4	1176
1201Z	82	77	74	68	62	57	51	68.3	1973
1802Z	83	78	73	67	62	58	54	68.8	1117
TOT	83	77	7	68	61	57	47	67.6	6086

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	3.3	14.5	20.4	26.9	34.9	84	338		
0600Z	.0	3.3	9.0	19.8	32.9	35.0	83	334		
1201Z	.0	7.5	19.6	21.4	32.2	23.3	80	340		
1802Z	.0	11.1	13.1	23.8	32.2	17.8	78	314		
TOT	0	84	169	293	418	382	81	1346		

SEPTEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1962-1973

AREA 0010 FLORIANOPOLIS
26.83 49.8W

TABLE 17

PCT FRQG OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH/OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	52 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	# FOG	MO FOG
14/16	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
11/13	.0	.0	.0	.1	.1	.0	.1	.1	6	.1	.3
9/10	.0	.0	.0	.1	.2	.1	.0	.1	6	.0	.4
7/8	.0	.0	.0	.3	.5	.3	.2	.1	20	.1	1.3
6	.0	.0	.0	.6	.8	.1	.1	.0	18	.0	1.2
5	.0	.0	.1	.5	.9	.3	.2	.0	33	.1	2.2
4	.0	.1	.1	1.0	.6	.4	.1	.0	35	.2	2.2
3	.0	.0	.1	1.4	1.8	1.4	.0	.0	70	.1	4.6
2	.0	.0	.3	2.3	4.4	1.0	.1	.0	121	.6	7.7
1	.0	.3	.8	3.7	5.3	2.3	.0	.0	194	.4	12.2
0	.1	.1	2.3	4.2	9.0	.6	.0	.0	238	.7	13.6
-1	.0	.1	1.4	3.3	6.8	.3	.0	.0	206	.4	13.7
-2	.0	.3	2.1	3.6	2.8	.3	.0	.0	163	.2	10.9
-3	.0	.1	1.1	3.1	1.4	.1	.0	.0	113	.1	7.8
-4	.0	.3	1.7	2.1	.3	.0	.0	.0	80	.0	3.3
-5	.0	.3	1.3	2.3	.1	.1	.0	.0	61	.0	4.2
-6	.0	.4	1.3	1.2	.1	.0	.0	.0	44	.0	3.0
-7/-8	.2	.3	1.2	1.0	.0	.1	.0	.0	42	.0	2.9
-9/-10	.0	.1	.6	.1	.1	.0	.0	.0	14	.0	1.0
-11/-13	.2	.1	.0	.1	.0	.0	.0	.0	3	.0	.3
-14/-18	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	7	39	220	356	308	117	13	3	1463	43	1420
PCT	.3	2.7	15.0	38.0	34.7	9.0	.9	.2	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1962-1973

TABLE 18

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

HGT	N						PCT	NE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0
1-3	.0	3.3	1.4	.0	.0	.0	.0	.4	3.3	1.8	.0	.0	.0	.0	3.6
5-6	.0	1.3	2.4	.0	.0	.0	.0	.2	2.6	6.3	.0	.0	.0	.0	9.0
7	.0	.3	2.2	.4	.0	.0	.0	.0	.3	6.8	.2	.0	.0	.0	7.3
8-9	.0	.0	1.3	.1	.0	.0	.0	.0	.0	3.6	1.4	.0	.0	.0	3.3
10-11	.0	.0	.0	.3	.0	.0	.0	.3	.0	.0	1.2	1.1	.0	.0	2.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.0	.1	.0	1.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.3	7.2	.8	.0	.0	13.3	1.0	7.1	20.1	4.0	.0	.0	.0	32.2

HGT	E						PCT	SE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.0	.0	.0	.0	.6
1-3	.4	3.3	.3	.0	.0	.0	.0	.1	2.3	.3	.0	.0	.0	.0	2.7
5-6	.0	1.2	1.6	.0	.0	.0	.0	.0	2.0	1.1	.0	.0	.0	.0	3.1
7	.0	.3	1.3	.3	.0	.0	.0	.0	.3	.4	.0	.0	.0	.0	1.3
8-9	.0	.1	.1	.8	.0	.0	.0	.0	.2	.4	.0	.0	.0	.0	.6
10-11	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	5.7	3.6	1.3	.0	.0	11.4	.1	5.6	2.8	.8	.0	.0	.0	9.0

PERIOD: (OVER-ALL) 1963-1979

SEPTEMBER

AREA 0010 FLORIANOPOLIS
26.83 43.8W

TABLE 18 (CONT)

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

HGT	SM							PCT	NW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	1.4	.0	1.0	.0	.0	.0	.0	1.0		
1-2	.3	1.8	1.1	.0	.0	.0	3.2	.0	2.1	.9	.0	.0	.0	3.1		
3-4	.0	1.7	2.7	.2	.0	.0	4.3	.0	2.1	3.4	.4	.0	.0	3.9		
5-6	.0	.3	1.3	.1	.0	.0	1.9	.0	.1	1.4	.3	.2	.0	2.1		
7	.0	.0	.3	.3	.0	.0	.8	.0	.0	.7	.9	.0	.0	1.6		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2		
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.2	.0	.0	.0	.0	.2		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
YDY PCT	.3	4.8	6.4	1.0	.0	.0	12.3	.0	3.3	6.3	2.0	.0	.0	14.2		

HGT	SM							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.0	.0	.2	.0	.0	.0	.2	.0	.4	.0	.0	.0	.0	.0	.4		
1-2	.0	1.2	.0	.0	.0	.0	1.2	.0	.7	.2	.0	.0	.0	.0	.9		
3-4	.0	1.7	.2	.0	.0	.0	.9	.0	.2	.2	.0	.0	.0	.0	1.4		
5-6	.0	.0	.3	.1	.0	.0	.3	.0	.3	.2	.0	.0	.0	.0	.3		
7	.0	.0	.0	.1	.0	.0	.1	.0	.2	.0	.0	.0	.0	.0	.2		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
YDY PCT	.0	1.9	.7	.3	.0	.0	2.9	.0	1.6	.7	.4	.0	.0	.0	2.7		

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	YDY OBS
<1	2.1	4.0	1.0	.0	.0	.0	7.0	
1-2	1.9	17.7	3.0	.0	.0	.0	23.9	
3-4	.0	12.0	17.7	.4	.0	.0	30.9	
5-6	.0	2.3	14.3	1.7	.2	.0	18.9	
7	.0	.0	6.3	3.4	.0	.0	11.4	
8-9	.0	.0	1.3	3.2	.0	.0	3.8	
10-11	.0	.2	.4	1.3	.0	.0	1.9	
12	.0	.0	.0	.2	.0	.0	.2	
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	.7	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
YDY PCT	3.3	37.1	47.2	10.1	.2	.0	100.0	323

PERIOD: (OVER-ALL) 1963-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<5	1.4	6.3	9.4	3.9	2.7	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	272	4
6-7	.0	1.7	6.7	13.1	8.4	2.9	1.8	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	361	6
8-9	.0	.4	1.0	3.3	7.4	2.6	1.6	.4	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	183	7
10-11	.0	.2	.2	1.1	.9	.3	1.1	.8	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	92	8
12-13	.0	.0	.3	.3	.2	.4	.4	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	9
>13	.0	.0	.0	.2	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	5
INDBT	1.1	2.8	1.9	2.3	1.6	.3	.7	.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1017	6
TOTAL	2.3	11.3	10.3	26.4	21.2	7.4	3.8	2.7	2.7	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1017	6
PCT	2.3	11.3	10.3	26.4	21.2	7.4	3.8	2.7	2.7	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1855-1973

AREA 0010 FLORIANOPOLIS
26.85 45.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.1	2.9	1.0	.0	.0	.0	.0	6.0	1.4	.5	3.3	1.0	2.1	.0	86.2
NE	3.6	.9	2.3	.0	.0	.0	.0	6.7	2.6	2.2	2.0	.0	3.4	.0	83.8
E	4.0	1.7	2.3	.0	.0	.0	.0	8.2	2.6	1.3	.8	.0	1.8	.0	85.4
SE	4.4	.8	2.3	.0	.0	.0	.0	7.5	3.1	.4	3.5	.0	2.0	.0	83.6
S	3.7	2.2	3.9	.0	.0	.0	.0	6.7	3.5	.7	2.7	.0	1.2	.0	83.2
SW	1.2	1.9	1.2	.0	.0	.0	.0	4.2	3.7	1.8	2.5	.8	1.3	.0	86.5
W	6.0	3.6	1.9	.0	.0	.0	.0	18.3	1.9	6.2	.0	.0	1.9	.0	73.3
NW	6.2	2.6	2.2	.0	.0	.0	.0	12.9	7.8	.9	3.4	.0	.9	.0	74.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	.0	6.3	.0	87.3
TOT PCT	3.7	1.7	2.4	.0	.0	.0	.0	7.6	3.0	1.4	2.3	.1	2.1	.0	83.9
TOT OBS:	1794														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0800	2.2	2.2	2.6	.0	.0	.0	.0	6.8	3.1	2.0	1.8	.2	.9	.0	85.7
0809	4.4	2.1	3.4	.0	.0	.0	.0	9.7	3.4	2.9	1.8	.3	2.1	.0	80.4
1201	4.9	1.4	1.4	.0	.0	.0	.0	7.6	5.3	.2	2.7	.0	1.8	.0	84.3
1801	3.3	.9	2.4	.0	.0	.0	.0	6.8	2.2	.7	2.8	.0	3.3	.0	84.3
TOT PCT	3.8	1.6	2.4	.0	.0	.0	.0	7.6	3.0	1.3	2.3	.1	2.1	.0	83.8
TOT OBS:	1782														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						40+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-9	10-19	20-29	30-39	40-49	50+					00	03	06	09	12	15	18	21
N	.6	3.3	3.1	.7	.0	.0		7.7	11.7		6.1	6.0	8.3	7.7	9.2	9.7	6.3	9.9
NE	1.0	10.1	11.7	3.1	.1	.0		23.9	12.1		27.4	27.8	26.4	29.2	24.8	23.1	26.1	23.7
E	.9	8.8	7.1	1.4	.1	.0		18.3	11.7		20.3	20.7	17.8	23.2	16.8	16.3	18.2	23.0
SE	.9	7.8	6.0	1.3	.1	.0		16.4	11.6		17.4	17.9	14.8	10.1	13.3	13.6	17.8	17.1
S	.7	3.6	3.8	2.0	.2	.0		14.4	13.4		13.1	13.4	13.2	17.9	13.8	13.4	13.3	13.1
SW	.4	2.6	3.9	2.2	.4	.0		9.8	10.3		8.0	8.5	8.9	3.0	11.3	12.0	10.3	3.3
W	.4	1.1	.8	.2	.1	.0		2.6	11.8		1.6	2.2	2.9	4.2	3.2	3.6	2.1	2.6
NW	.3	1.4	.8	.2	.0	.0		2.8	10.1		2.1	1.9	3.3	4.8	3.2	3.7	2.2	3.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1							2.1	.0		2.0	2.7	3.4	.0	2.1	2.6	1.4	.0
TOT OBS	633	2694	2487	713	73	7	6331		12.4		1147	774	1107	42	1178	887	1178	38
TOT PCT	7.3	41.0	30.2	11.3	1.2	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40					00	03	09	12	18			
N	1.9	4.1	1.3	.3	.0		7.7	11.7		6.1	6.0	8.3	7.7	9.2	9.7	6.3
NE	4.3	13.4	7.0	.9	.0		23.9	12.1		27.4	27.8	26.4	29.2	24.8	23.1	26.1
E	4.2	10.0	3.7	.3	.0		18.3	11.7		20.3	20.7	17.8	23.2	16.8	16.3	18.2
SE	4.2	8.7	3.0	.4	.1		16.4	11.6		17.4	17.9	14.8	10.1	13.3	13.6	17.8
S	3.0	6.6	4.0	.7	.1		14.4	13.4		13.1	13.4	13.2	17.9	13.8	13.4	13.3
SW	1.5	3.7	3.3	1.0	.2		9.8	10.3		8.0	8.5	8.9	3.0	11.3	12.0	10.3
W	.8	1.2	.4	.1	.1		2.6	11.8		1.6	2.2	2.9	4.2	3.2	3.6	2.1
NW	1.0	1.4	.3	.1	.0		2.8	10.1		2.1	1.9	3.3	4.8	3.2	3.7	2.2
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0		2.0	2.7	3.4	.0	2.1	2.6	1.4
TOT OBS	1478	3114	1473	233	31	6331		12.4		1147	774	1107	42	1178	887	1178
TOT PCT	23.3	49.0	23.2	4.0	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1855-1973

AREA 0010 FLORIANOPOLIS
26.8S 45.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND DIR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT PREG	TOTAL OBS
				11-21	22-29	34-47	48+			
0000Z	2.3	4.6	40.6	39.7	11.1	1.3	.2	12.3	100.0	1921
0600Z	2.3	4.7	44.8	37.0	10.8	.5	.0	11.9	100.0	1149
1200Z	2.3	6.7	39.6	38.1	11.6	1.6	.0	12.4	100.0	2065
1800Z	1.4	3.8	40.2	42.2	11.3	.9	.2	12.8	100.0	1216
TOT	136	327	2604	2487	715	75	7	12.4		6391
PCT	2.1	5.1	41.0	39.2	11.3	1.2	.1	100.0		

TABLE 5

PCT PRG OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION:

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NR	6.2	5.0	9.2	8.1		8.0
E	4.8	2.9	4.2	3.7		4.9
SE	2.7	1.8	4.5	3.4		3.8
S	2.8	2.6	4.4	6.8		5.6
SW	2.1	1.6	2.9	2.8		3.0
W	.4	.1	.8	.8		3.6
NW	1.1	.4	.3	1.5		4.8
VAR	.0	.0	.0	.0		.0
CALM	.2	.2	.2	.2		4.2
TOT OBS	289	198	364	434	1285	5.2
TOT PCT	22.8	15.4	28.3	33.8	100.0	

TABLE 6

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

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.2	.0	.1	.5	.9	.7	.1	.2	.1	.0	3.5	
NR	.4	.0	.3	3.2	3.7	2.3	1.9	.6	.1	.2	18.2	
E	.3	.1	.4	1.3	3.1	1.8	.6	.3	.2	.5	9.9	
SE	.4	.0	.3	2.0	2.8	1.0	.7	.9	.3	.0	6.9	
S	.5	.2	.2	1.7	3.1	1.8	1.1	.2	.2	.1	8.0	
SW	.2	.0	.2	1.0	1.7	.4	.6	.3	.1	.0	3.2	
W	.0	.0	.0	.3	.2	.1	.4	.1	.0	.0	1.0	
NW	.2	.0	.0	.4	.5	.3	.0	.1	.0	.0	2.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.9	
TOT OBS	27	4	21	134	200	101	63	34	11	3	485	1285
TOT PCT	2.1	.3	1.6	10.4	15.6	7.9	5.1	2.6	.9	.2	53.3	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>9	>8	>7	>1/2	>1/4	>3000	>30
>4800	.8	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>3600	2.1	3.2	3.8	4.1	4.1	4.1	4.1	4.1
>2400	3.1	7.4	8.7	9.0	9.0	9.0	9.0	9.0
>1800	16.0	14.3	14.4	16.7	16.7	16.7	16.7	16.7
>1000	19.6	28.6	31.6	32.0	32.1	32.2	32.2	32.2
>600	24.7	38.2	42.0	42.4	42.8	42.8	42.8	42.8
>300	23.4	39.6	43.4	44.0	44.1	44.3	44.3	44.3
>150	23.4	39.7	43.7	44.3	44.4	44.6	44.6	44.6
>0	23.7	40.6	45.3	46.0	46.2	46.3	46.6	46.6
TOTAL	336	530	591	601	604	607	609	609

TOTAL NUMBER OF OBS: 1304

PCT FREE NM <5/8: 53.4

TABLE 7A

PERCENTAGE PRG OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.7	11.2	11.0	8.9	8.2	8.5	7.9	10.3	23.2	1.3	1411

OCTOBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1959-1973

AREA 0010 FLORIANOPOLIS
26.55 45.8W

TABLE 8

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

VBVY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	.3	
1<2	PCP	.0	.2	.1	.2	.0	.0	.0	.1	.0	.0	.6	
	NO PCP	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.3	
	TOT %	.1	.2	.2	.2	.1	.0	.0	.1	.0	.0	.9	
2<5	PCP	.1	.3	.3	.1	.2	.1	.0	.0	.0	.0	1.3	
	NO PCP	.4	1.1	.3	.0	.9	.3	.1	.3	.0	.0	4.2	
	TOT %	.4	1.6	.6	.8	1.0	.6	.1	.3	.0	.0	5.4	
5<10	PCP	.1	.7	.3	.0	1.0	.2	.4	.3	.0	.0	4.7	
	NO PCP	2.0	9.2	4.3	3.8	3.3	3.4	1.9	.6	.0	.3	25.3	
	TOT %	2.2	9.9	5.3	4.3	4.5	3.6	1.7	.9	.0	.3	32.4	
10+	PCP	.1	.4	.3	.1	.3	.1	.0	.1	.0	.0	1.4	
	NO PCP	3.2	13.1	11.7	9.6	10.3	9.6	.9	2.0	.0	.3	29.2	
	TOT %	3.3	13.5	12.0	9.7	10.6	9.7	.9	2.1	.0	.3	30.6	
TOT OBS												1732	
TOT PCT		6.1	27.3	18.1	13.3	16.3	9.9	2.3	3.3	.0	.9	100.0	

TABLE 9

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

VBVY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.0	.0	.1	.0	.0	.0	.0	.0	.1	.4
1<2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.2	.2	.1	.1	.0	.0	.0	.0	.0	.6	
	11-21	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.6	
	22+	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.5	.3	.2	.1	.0	.0	.0	.0	.0	1.6	
2<5	0-3	.0	.1	.1	.0	.1	.0	.0	.0	.0	.1	.4	
	4-10	.2	.6	.4	.3	.4	.1	.0	.1	.0	.0	2.1	
	11-21	.4	1.0	.4	.3	.3	.2	.1	.2	.0	.0	3.0	
	22+	.0	.4	.2	.1	.0	.1	.0	.0	.0	.0	.8	
	TOT %	.6	2.1	1.1	.8	1.0	.4	.1	.3	.0	.1	6.3	
5<10	0-3	.1	.2	.2	.1	.1	.0	.0	.1	.0	.0	1.4	
	4-10	.8	3.2	2.2	1.8	1.3	.7	.4	.3	.0	.0	11.1	
	11-21	1.2	4.3	1.8	1.9	1.3	1.1	.4	.3	.0	.0	12.7	
	22+	.3	1.3	.3	.3	.3	.3	.2	.0	.0	.0	3.7	
	TOT %	2.3	9.2	4.7	4.2	3.4	2.4	1.0	.9	.0	.0	28.9	
10+	0-3	.3	.5	.6	.6	.4	.1	.2	.3	.0	1.1	4.0	
	4-10	1.8	6.0	3.3	3.4	4.3	2.2	.6	1.1	.0	.0	20.7	
	11-21	1.6	7.7	4.9	3.9	4.6	3.0	.6	.3	.0	.0	20.6	
	22+	.3	1.3	.3	.6	1.2	.7	.1	.0	.0	.0	4.9	
	TOT %	4.0	15.8	11.2	10.3	10.4	6.0	1.4	1.9	.0	1.1	42.4	
TOT OBS												3433	
TOT PCT		7.4	27.8	17.3	13.9	13.1	8.9	2.3	3.2	.0	1.8	100.0	

OCTOBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1859-1973

AREA 0010 FLORIANOPOLIS
26.85 43.8M

TABLE 10

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

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	MM <5/8 ANY HGT	TOTAL OBS
0000Z	3.1	.9	.6	9.3	12.7	7.3	3.7	2.2	.6	.3	41.0	59.0	322
0600Z	1.1	.0	.7	10.6	15.5	7.4	7.4	2.5	1.1	.4	46.5	59.5	284
1201Z	2.2	.3	2.2	9.9	13.7	7.2	5.0	2.8	.9	.3	46.4	59.6	362
1802Z	1.6	.0	2.4	10.9	16.5	8.0	3.7	4.0	.8	.0	48.0	52.0	379
TOT	27	4	21	137	204	101	63	39	11	3	612	731	1343
PCT	2.0	.3	1.6	10.2	15.2	7.3	4.8	2.9	.8	.2	43.6	54.4	106.0

TABLE 11

PERCENT FREQUENCY VSBY (MM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000Z	.4	.5	.9	6.2	30.2	61.8	1000
0600Z	.3	.7	1.8	7.2	31.9	58.1	683
1201Z	.5	.2	2.5	7.2	26.9	62.7	1060
1802Z	.4	.1	1.1	3.7	28.0	64.7	760
TOT	14	13	36	230	1018	2172	3303
PCT	.4	.4	1.6	6.6	29.1	67.0	100.0

TABLE 12

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

HOURL (GMT)	<150 <300V	<600 <1	<1000 <5	1000+ AND5+	MM <5/8 AND 5+	TOTAL OBS
0000Z	3.2	5.2	18.4	24.6	57.0	309
0600Z	1.1	2.2	18.6	31.4	50.0	274
1201Z	2.3	4.8	21.7	28.8	49.6	331
1802Z	1.6	4.3	19.1	29.6	51.3	372
TOT	27	55	235	373	678	1304
PCT	2.1	4.2	19.3	28.6	51.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.1	.6	.2	.1	.0	4	.3
75/79	.0	.0	.0	.4	.3	2.0	3.0	1.2	90	6.9
70/74	.0	.0	.2	.8	2.8	7.3	13.9	13.8	308	23.8
65/69	.0	.0	.3	1.8	6.8	10.0	13.2	10.3	608	46.3
60/64	.0	.0	.1	.3	3.2	1.9	1.5	1.2	94	7.2
55/59	.0	.0	.0	.0	.8	.2	.1	.1	4	.3
TOTAL	0	0	7	44	189	280	440	344	1302	100.0
PCT	.0	.0	.5	3.4	14.5	21.5	33.8	26.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.1	.1	.1	.0	.0	.0	.0	.0	.1
75/79	.0	2.8	1.0	.5	.3	.9	.3	.3	.3	.0
70/74	2.4	13.6	6.7	4.5	3.8	2.4	1.2	1.9	.0	.2
65/69	1.9	9.3	10.1	9.1	8.6	4.9	.9	1.2	.0	.3
60/64	.3	.2	.7	1.3	2.5	1.7	.3	.2	.0	.0
55/59	.0	.1	.0	.0	.1	.2	.0	.0	.0	.0
TOTAL	5.3	26.1	18.5	15.4	15.4	10.0	2.7	3.7	.0	.8

TABLE 15

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

HOURL (GMT)	MAX	99S	95S	50S	5L	1L	MIN	MEAN	TOTAL OBS
0000Z	79	74	73	66	63	60	50	68.3	1922
0600Z	81	73	73	68	62	58	56	67.7	1152
1201Z	83	79	74	70	64	60	59	69.7	2061
1802Z	84	79	77	70	64	61	57	70.4	1171
TOT	84	78	75	69	63	60	50	69.0	6746

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	3.1	11.9	17.0	39.1	28.9	82	325		
0600Z	.0	1.1	11.3	19.7	32.8	33.0	83	274		
1201Z	.3	4.9	19.7	22.3	36.8	26.4	80	344		
1802Z	.0	3.9	17.8	26.1	31.3	19.3	78	337		
TOT	0	92	188	283	446	339	61	1326		

OCTOBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1859-1973

AREA 0010 FLORIANOPOLIS
26.63 45.8W

TABLE 17

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

AIR-SEA TMP DIP	57 60	61 64	63 68	69 72	73 76	77 80	81 84	TOT	N FOG	NO FOG
11/13	.0	.0	.1	.0	.1	.2	.3	9	.1	.8
9/10	.0	.1	.1	.1	.3	.1	.1	11	.0	.7
7/8	.0	.0	.1	.3	.4	.6	.0	21	.0	1.4
6	.0	.0	.0	.1	.9	.0	.0	16	.0	1.1
5	.0	.0	.3	.3	1.3	.7	.1	41	.1	2.6
4	.0	.0	.1	1.5	2.0	.4	.0	61	.0	4.0
3	.0	.1	.3	2.2	1.6	.1	.0	65	.2	4.1
2	.0	.1	1.1	3.1	2.2	.2	.0	132	.1	8.6
1	.0	.1	1.9	6.4	2.8	.1	.0	173	.3	11.1
0	.0	.6	4.3	7.6	2.1	.1	.0	228	.6	14.4
-1	.0	.3	4.3	6.4	.9	.1	.0	186	.1	12.2
-2	.0	1.1	3.1	4.6	.2	.0	.0	166	.1	10.8
-3	.0	1.1	3.3	2.3	.1	.0	.0	140	.0	9.2
-4	.3	1.0	4.4	.9	.1	.0	.0	101	.1	6.3
-5	.0	.9	2.7	1.0	.1	.0	.0	72	.1	4.7
-6	.2	.8	1.2	.2	.0	.0	.0	37	.0	2.4
-7/-8	.2	.6	1.2	.2	.0	.0	.0	33	.1	2.0
-9/-10	.1	.3	.8	.1	.0	.0	.0	15	.0	1.0
-11/-13	.1	.1	.1	.1	.0	.0	.0	7	.0	.5
-14/-16	.1	.3	.0	.0	.0	.0	.0	6	.0	.4
-20/-22	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	16		312		230		7		26	1493
		113	602		39			1521		
PCT	1.1	7.6	33.7	39.6	13.1	2.9	.3	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

HGT	N						PCT	NE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
01	.0	.4	.0	.0	.0	.0	.4	.0	.3	.4	.0	.0	.0	.0	.6
1-2	.0	.6	.6	.0	.0	.0	1.3	.0	3.3	2.4	.0	.0	.0	.0	3.9
3-4	.0	.6	1.3	.1	.0	.0	2.1	.0	3.2	4.2	.4	.0	.0	.0	7.7
5-6	.0	.8	1.6	.0	.0	.0	2.2	.2	.8	4.4	.8	.0	.0	.0	3.7
7	.0	.0	.8	.2	.0	.0	1.0	.0	.7	1.2	1.1	.0	.0	.0	3.1
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	1.1	.0	.0	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.7	.0	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.8
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
23-23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	4.6	.3	.0	.0	7.1	.2	8.2	13.8	3.9	.0	.0	.0	26.1

HGT	E						PCT	SE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
01	.0	1.1	.2	.0	.0	.0	1.3	.0	1.0	.4	.0	.0	.0	.0	1.4
1-2	.2	4.2	1.3	.0	.0	.0	3.7	.3	3.3	1.0	.0	.0	.0	.0	4.8
3-4	.0	1.9	4.3	.4	.0	.0	6.8	.0	1.6	4.0	.0	.0	.0	.0	3.6
5-6	.0	.4	3.3	.0	.0	.0	3.7	.0	1.0	1.8	.0	.0	.0	.0	2.8
7	.0	.0	.8	.0	.0	.0	.3	.0	.0	.6	.8	.0	.0	.0	1.4
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	7.6	10.0	.7	.0	.0	18.3	.6	6.9	7.8	1.0	.0	.0	.0	16.2

PERIOD: (OVER-ALL) 1969-1979

OCTOBER

AREA 0010 FLORIANOPOLIS
26.6S 45.8W

TABLE 18 (CONT)

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

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.5	.6	.0	.0	.0	.0	1.1	.0	.6	.0	.0	.0	.0	.6		
1-2	.0	3.3	.3	.0	.0	.0	3.8	.0	1.3	.4	.0	.0	.0	1.7		
3-4	.0	1.2	4.2	.1	.0	.0	5.5	.0	1.1	1.4	.2	.0	.0	2.7		
5-6	.0	1.0	3.3	.2	.0	.0	4.7	.0	.8	1.9	.0	.0	.0	1.9		
7	.0	.0	1.2	.4	.0	.0	1.7	.0	.0	.8	.2	.0	.0	.5		
8-9	.0	.0	.0	.3	.3	.0	1.1	.0	.0	.0	.8	.0	.0	.8		
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.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	6.3	9.2	2.1	.3	.0	18.6	.0	3.1	3.7	.3	.0	.0	7.3		

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.0	.1	.0	.0	.0	.0	.1	.0	.2	.1	.0	.0	.0	.0	.3		
1-2	.0	.2	.3	.0	.0	.0	.5	.0	.0	.6	.4	.0	.0	.0	1.0		
3-4	.0	.2	.3	.0	.0	.0	.5	.0	.0	.1	.6	.2	.0	.0	.9		
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.6		
7	.0	.0	.2	.1	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0	.2		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	.3	.5	.1	.0	.0	1.3	.0	.2	.9	1.6	.2	.0	.0	2.9 38.2		

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	4.4	.9	.0	.0	.0	7.8	
1-2	.8	17.1	6.7	.0	.0	.0	24.8	
3-4	.0	9.8	20.4	1.5	.0	.0	31.7	
5-6	.2	3.6	16.9	2.7	.0	.0	21.9	
7	.0	.7	4.7	2.9	.0	.0	8.4	
8-9	.0	.0	1.3	.3	.0	.0	2.6	
10-11	.0	.0	.2	1.1	.0	.0	1.3	
12	.0	.0	.0	.7	.0	.0	.7	
13-16	.0	.0	.0	1.1	.0	.0	1.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.2	.0	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.6	35.7	31.4	8.7	.3	.0	100.0	366

PERIOD: (OVER-ALL) 1969-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	9.4	13.5	7.2	1.9	.9	.3	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	408	4
6-7	.0	1.3	10.3	11.8	3.2	2.3	1.3	.8	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	384	5
8-9	.0	.3	1.3	3.3	4.3	3.1	1.2	.7	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	173	7
10-11	.0	.3	.9	1.9	1.3	1.1	1.1	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	7
12-13	.0	.0	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	11
15-17	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDBT	.8	1.1	1.9	1.7	.8	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	5
TOTAL	2.6	12.6	28.0	26.0	13.2	8.0	4.3	2.4	2.1	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	1135	5
PCT	2.3	12.6	26.0	26.0	13.2	8.0	4.3	2.4	2.1	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1863-1973

NOVEMBER

AREA 0010 FLORIANOPOLIS
26.63 45.84

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	CRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.1	.0	2.7	.0	.0	.0	.0	3.3	.8	1.9	.4	.0	1.2	.0	90.4
NE	2.3	1.5	2.9	.0	.0	.0	.0	6.0	1.5	.8	1.8	.2	1.5	.2	88.3
E	2.9	1.3	2.0	.0	.0	.0	.0	6.0	1.3	.8	1.2	.0	.7	.0	90.6
SE	3.2	1.0	1.9	.0	.0	.0	.0	3.8	3.3	.4	.8	.0	.2	.0	89.6
S	.9	3.2	2.1	.0	.0	.0	.0	7.2	4.4	.6	.4	.0	.9	.0	86.9
SW	2.7	2.3	1.4	.0	.0	.0	.0	6.6	3.3	2.3	.0	.0	.2	.0	88.2
W	3.7	1.9	2.8	.0	.0	.0	.0	8.4	3.7	7.8	.0	.0	.0	.0	80.4
NW	18.3	.0	.0	.0	.0	.0	.0	18.3	3.6	2.8	.0	.0	.0	.0	73.2
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	3.9	.0	.0	.0	.0	.0	94.1
TOT PCT	2.8	1.6	2.1	.0	.0	.0	.0	6.2	2.4	1.0	1.0	.1	.8	.1	88.7
TOT OBS:	1761														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	CRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	2.3	1.9	2.1	.0	.0	.0	.0	6.3	2.3	1.9	1.3	.0	.4	.0	88.4
0600	4.1	1.4	3.3	.0	.0	.0	.0	8.6	1.9	1.7	.7	.0	.5	.0	86.8
1200	2.8	1.4	2.0	.0	.0	.0	.0	3.8	3.0	.2	1.4	.2	.8	.0	88.7
1800	2.3	1.4	1.1	.0	.0	.0	.0	4.6	1.8	.3	.9	.0	1.8	.2	90.4
TOT PCT	2.8	1.9	2.1	.0	.0	.0	.0	6.3	2.3	1.0	1.1	.1	.9	.1	88.6
TOT OBS:	1893														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT PREG	MEAN SPD	HOUR (GMT)						
	0-5	4-10	11-21	22-33	34-47					00	03	06	09	12	15	18	21
N	.5	3.8	3.4	.5	.0	.0	8.3	11.4	6.2	6.3	8.2	14.1	10.8	10.5	7.1	11.3
NE	1.4	11.1	12.2	2.9	.2	.0	27.6	12.3	26.8	23.9	27.1	38.2	28.2	23.7	28.3	27.9
E	1.1	9.7	8.1	1.2	.2	.0	18.3	11.1	20.6	21.0	16.0	13.0	15.7	16.0	18.2	26.9
SE	1.1	8.4	3.8	1.1	.0	.0	16.6	11.0	19.1	18.1	16.1	10.9	13.6	13.3	16.6	19.9
S	.9	3.7	4.3	1.9	.2	.4	12.2	13.0	12.0	14.3	15.0	13.8	12.1	14.2	15.6	5.4
SW	.3	3.3	2.9	1.4	.2	.0	8.3	13.8	7.1	7.3	7.8	8.2	6.9	9.9	8.6	3.4
W	.4	1.3	.4	.2	.0	.0	2.2	9.3	1.3	1.7	2.4	.0	3.3	2.9	1.3	1.3
NW	.0	1.2	.4	.1	.0	.0	1.8	8.7	1.2	1.7	2.2	.0	1.9	2.7	1.3	1.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2						2.2	.0	1.6	2.3	3.2	.0	2.6	2.8	1.6	.0
TOT OBS	318	2811	2981	399	32	2	6323	11.7	1170	7.2	1128	83	1136	879	1136	91
TOT PCT	8.7	64.3	37.7	8.8	.8	.0	100.0	11.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT PREG	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40					00	03	06	12	18	21
N	1.8	4.8	1.8	.1	.0	8.3	11.4	6.2	6.3	10.7	7.2		
NE	3.2	14.9	4.4	.8	.1	27.4	12.3	26.8	23.9	27.1	28.3		
E	4.7	10.2	2.9	.4	.0	18.3	11.1	20.6	21.0	16.0	18.2		
SE	4.3	8.7	3.0	.3	.0	16.4	11.0	19.1	18.1	16.1	10.9		
S	3.2	7.3	4.0	.7	.1	12.2	13.0	12.0	14.3	15.0	13.8		
SW	1.9	3.5	2.3	.6	.1	8.3	13.8	7.1	7.3	7.8	8.2		
W	1.0	.9	.3	.0	.0	2.2	9.3	1.3	1.7	2.4	.0		
NW	.7	.9	.1	.0	.0	1.8	8.7	1.2	1.7	2.2	.0		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	2.2					2.2	.0	1.6	2.3	3.2	.0		
TOT OBS	1892	3221	1311	184	13	6323	11.7	1170	7.2	1128	83		
TOT PCT	29.2	50.9	20.7	2.9	.2	100.0	11.7	100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1863-1973

NOVEMBER

AREA 0010 FLORIANOPOLIS
26.83 49.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT PREG	TOTAL OBS
				11-21	22-23	24-47	48+			
0000Z	1.9	3.5	43.3	38.8	9.8	.9	.1	12.0	100.0	1942
0600Z	3.0	3.5	43.9	36.7	8.0	.8	.0	11.3	100.0	1181
1201Z	2.3	6.7	43.4	36.1	8.6	.7	.0	11.4	100.0	2013
1802Z	1.8	6.0	43.8	39.8	9.4	.8	.0	11.9	100.0	1187
TOT	141	377	2811	2381	539	32	2	11.7	100.0	8323
PCT	2.2	6.0	44.5	37.7	8.8	.8	.0		100.0	

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	8.9	4.6	9.7	7.4		6.7
E	3.3	4.2	9.8	4.4		4.5
SE	4.3	3.1	6.4	3.9		4.7
S	4.0	2.6	6.9	3.6		4.8
SW	1.9	1.1	3.1	1.1		4.7
W	.9	.2	.6	.4		4.7
NH	.2	.0	.3	.4		3.8
VAR	.0	.0	.0	.0		.0
CALM	.4	.2	.1	.2		3.3
TOT OBS	384	229	411	310	1384	4.7
TOT PCT	28.8	17.2	30.8	23.2	100.0	

TABLE 6

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

OBS	CEILING HEIGHTS (FT, NH >4/8)										NH <5/8 ANY MGT	TOTAL OBS
	000	100	300	600	1000	2000	3500	5000	6500	8000+		
149	299	599	999	1999	3499	4999	6499	7999	8999	9999		
.0	.0	.2	.7	1.0	.4	.3	.1	.1	.0	.3		
.0	.1	.2	1.6	4.0	2.3	2.0	.7	.2	.1	.1	.0	3.3
.1	.0	.3	1.1	2.3	2.1	.8	.4	.1	.1	.1	.1	18.6
.1	.0	.0	.0	2.6	1.7	.0	.2	.1	.1	.0	.0	12.6
.2	.1	.2	.6	2.1	1.7	.0	.2	.1	.1	.1	.0	9.8
.0	.1	.2	.5	1.1	.4	.0	.0	.0	.0	.0	.0	7.9
.0	.0	.0	.2	.1	.3	.0	.0	.0	.0	.0	.0	4.3
.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	1.1
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.5
.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
.6	.3	1.6	8.2	17.7	11.8	7.1	2.5	.7	.6	.6	.7	133.4
.4	.2	1.2	6.1	14.0	8.8	5.3	1.9	.5	.4	.4	.6	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>8	>6	>4	>3 1/2	>3	>2 1/2	>2
>8000	.7	.6	1.0	1.0	1.0	1.0	1.0	1.0
>6000	2.2	2.6	2.8	2.8	2.9	2.9	2.9	2.9
>5000	3.6	7.7	8.6	8.6	8.7	8.7	8.7	8.7
>4000	11.8	13.7	17.3	17.4	17.8	17.9	17.9	17.9
>3000	21.9	28.8	30.9	31.2	31.3	31.3	31.3	31.3
>2000	23.4	34.4	37.1	37.4	37.5	37.5	37.5	37.5
>1000	26.0	35.4	38.2	38.6	38.7	38.7	38.7	38.7
>500	29.1	33.6	38.4	38.8	38.9	38.9	38.9	38.9
>100	29.3	33.7	38.9	39.3	39.4	39.4	39.4	39.4
TOTAL	387	481	528	534	536	536	536	536

TOTAL NUMBER OF OBS: 1384

PCT PREG NH <5/8: 60.6

TABLE 7A

PERCENTAGE PREG OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	11.0	14.7	12.9	11.8	9.3	7.6	6.4	9.0	16.7	.4	1439

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1963-1973

NOVEMBER

AREA 0010 FLORIANOPOLIS
26.65 43.8W

TABLE 8

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

VISBY (MM)		N	N'	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
	NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.1	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.2
1<2	PCP	.1	.1	.0	.0	.2	.0	.0	.1	.0	.0	.4	.4
	NO PCP	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	.3	.3
	TOT %	.1	.2	.2	.1	.2	.0	.0	.1	.0	.0	.7	.7
2<5	PCP	.1	.6	.3	.3	.3	.7	.0	.0	.0	.0	2.6	2.6
	NO PCP	.4	.8	.5	.3	.2	.3	.0	.1	.0	.0	2.4	2.4
	TOT %	.5	1.3	.8	.6	.5	.5	.0	.1	.0	.0	4.2	4.2
5<10	PCP	.1	.8	.6	.4	.5	.1	.1	.1	.0	.0	2.7	2.7
	NO PCP	1.4	7.1	4.3	3.3	2.5	1.3	.4	.2	.0	.1	21.1	21.1
	TOT %	1.5	7.8	4.9	3.7	3.0	1.6	.4	.2	.0	.1	23.8	23.8
10+	PCP	.1	.4	.3	.3	.1	.1	.0	.1	.0	.0	1.4	1.4
	NO PCP	3.0	21.1	14.1	11.3	10.7	3.0	1.0	.6	.0	.9	69.7	69.7
	TOT %	3.1	21.5	14.4	11.6	10.8	3.1	1.0	.6	.0	.9	71.1	71.1
TOT OBS													1781
TOT PCT													7.2 30.9 20.5 16.3 14.4 7.2 1.3 1.0 .0 1.0 106.0

TABLE 9

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

VISBY (MM)	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	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	11-21	.0	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.8
2<5	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	4-10	.1	.2	.4	.3	.2	.1	.0	.0	.0	.0	.0	1.4
	11-21	.3	.6	.1	.3	.3	.2	.1	.0	.0	.0	.0	1.8
	22+	.0	.2	.0	.2	.1	.1	.0	.0	.0	.0	.0	.9
	TOT %	.4	1.0	.7	.8	.7	.4	.1	.0	.0	.0	.0	4.3
5<10	0-3	.1	.2	.2	.2	.1	.1	.1	.0	.0	.4	.3	.3
	4-10	.7	2.6	1.9	1.3	1.0	.7	.4	.2	.0	.0	.0	9.1
	11-21	.6	2.7	1.3	1.4	1.2	.6	.1	.1	.0	.0	.0	8.0
	22+	.0	.7	.7	.0	.6	.3	.0	.0	.0	.0	.0	2.6
	TOT %	1.4	6.2	4.0	3.4	2.9	1.8	.6	.4	.0	.4	.0	21.0
10+	0-3	.4	.9	.7	.3	.6	.2	.2	.1	.0	1.2	.4	4.8
	4-10	2.6	8.4	7.7	6.7	4.6	2.3	1.0	.9	.0	.0	.0	34.4
	11-21	2.3	9.6	5.2	4.1	3.2	2.3	.3	.2	.0	.0	.0	29.4
	22+	.3	1.4	.5	.2	1.2	1.2	.1	.0	.0	.0	.0	5.0
	TOT %	5.7	20.3	14.1	11.3	11.7	6.2	1.6	1.2	.0	1.2	.0	79.7
TOT OBS													3481
TOT PCT													7.6 27.9 19.1 13.9 13.4 8.5 2.4 1.7 .0 1.6 100.0

NOVEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1863-1973

AREA 0010 FLORIANOPOLIS
26.63 43.84

TABLE 10

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

HRUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL DBS
0000	.9	.0	1.7	3.2	16.0	7.8	3.8	2.6	.3	.9	39.2	80.8	344
0600	.6	.0	.8	6.0	13.4	7.8	6.3	1.9	.3	.3	37.8	82.2	320
1200	.3	.3	.8	6.9	12.4	8.3	6.3	1.6	.5	.3	38.4	81.6	378
1800	.0	.3	1.4	3.2	11.7	10.1	6.0	1.4	.8	.3	37.2	82.8	366
TOT	7	3	16	64	188	121	79	26	7	6	337	871	1408
PCT	.3	.2	1.1	6.0	13.4	8.6	3.6	1.8	.5	.4	38.1	81.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL DBS
0000	.1	.2	.9	4.3	22.7	72.3	1032
0600	.3	.1	1.1	3.0	22.8	70.7	719
1200	.0	.2	1.3	4.8	20.3	73.4	1039
1800	.1	.1	1.1	4.2	19.6	74.9	769
TOT	4	6	34	161	733	2373	3335
PCT	.1	.2	1.0	4.6	21.4	72.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGFS OF VSBY (NM) AND/OR CEILING HGT (FEET-NM >4/8) BY HOUR

HRUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL DBS
0000	.9	2.8	12.2	31.5	36.3	227
0600	.6	1.6	13.2	28.1	38.7	310
1200	.3	1.9	12.7	28.6	60.4	369
1800	.0	2.0	11.2	29.2	39.3	333
TOT	7	28	168	392	799	1339
PCT	.3	2.1	12.4	28.8	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 DBS	PCT FREQ
89/89	.0	.0	.1	.1	.1	.0	.1	.0	4	.3
88/88	.0	.0	.0	.3	.6	.1	.1	.0	16	1.1
79/79	.0	.1	.1	.7	2.2	3.4	4.7	2.3	133	13.8
78/78	.0	.0	.1	.9	7.3	14.3	11.0	18.0	863	62.1
68/68	.0	.0	.0	1.4	3.2	3.0	3.4	1.7	239	20.7
68/64	.0	.0	.0	.3	.3	.6	.4	.3	27	1.9
TOTAL	.0	.1	.3	4.8	21.6	33.6	44.3	34.3	1394	100.0
PCT	.0	.1	.2	3.4	15.3	24.1	31.9	24.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
89/89	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0
88/88	.1	.7	.2	.0	.0	.1	.0	.0	.0	.0
79/79	1.6	3.3	2.3	1.2	1.1	1.2	.4	.0	.0	.4
78/78	4.0	20.8	13.6	9.9	7.3	4.1	1.1	.7	.0	.6
68/68	1.0	3.8	3.4	4.8	3.0	2.1	.3	.2	.0	.1
68/64	.1	.1	.0	.3	.9	.4	.0	.0	.0	.0
TOTAL	6.9	31.0	19.8	16.4	14.3	7.8	1.8	1.0	.0	1.1

TABLE 15

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

HRUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
0000	81	77	73	71	66	63	33	70.6	1946
0600	79	76	74	70	63	62	33	69.9	1188
1200	84	81	78	72	67	64	37	72.3	1960
1800	87	83	80	73	67	63	62	73.2	1130
TOT	87	81	77	72	66	63	33	71.5	6244

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	70-79	80-89	90-100	MEAN	TOTAL DBS
0000	.0	1.3	12.3	22.4	33.1	30.7	82	384
0600	.0	1.2	12.7	21.9	33.3	28.7	82	316
1200	.0	4.8	14.3	24.3	32.3	21.8	80	373
1800	.0	7.6	20.1	28.0	26.3	17.7	77	333
TOT	0	52	217	341	431	330	80	1411

NOVEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1863-1973

AREA 0010 FLORIANOPOLIS
26.68 45.0W

TABLE 17

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

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	M FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.1	.1	.3	.1	7	.0	.4
9/10	.0	.0	.0	.0	.1	.2	.2	.1	9	.0	.6
7/8	.0	.0	.1	.1	.9	.6	.5	.1	20	.0	1.9
6	.0	.0	.0	.3	.5	.6	.0	.0	21	.0	1.3
5	.0	.0	.1	.2	.7	1.1	.1	.0	33	.0	2.1
4	.0	.0	.1	1.0	2.0	.9	.1	.0	62	.1	3.8
3	.0	.0	.0	1.5	3.4	.5	.0	.0	85	.1	5.4
2	.0	.0	.3	3.1	4.5	.3	.0	.0	122	.2	8.2
1	.0	.0	.4	3.2	5.4	.3	.0	.0	177	.1	11.2
0	.0	.1	1.7	10.3	6.4	.5	.0	.0	298	.3	18.8
-1	.0	.0	1.6	9.4	3.3	.1	.0	.0	227	.0	14.5
-2	.0	.0	2.6	7.7	1.8	.0	.0	.0	189	.0	12.1
-3	.0	.1	2.3	4.0	.4	.0	.0	.0	107	.0	6.8
-4	.0	.4	2.1	2.2	.2	.0	.0	.0	77	.0	4.9
-5	.1	.3	1.3	1.3	.3	.1	.0	.0	53	.0	3.4
-6	.0	.5	1.1	.5	.0	.0	.0	.0	34	.1	2.0
-7/-8	.0	.3	.7	.3	.0	.0	.0	.0	21	.0	1.3
-9/-10	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
-11/-13	.0	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	3	29	739	464	79	3	3	1968	14	.9	1384
PCT	.2	1.8	14.8	47.1	29.6	5.0	1.1	.3	100.0	.9	99.1

PERIOD: (OVER-ALL) 1943-1973

TABLE 18

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

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.2	.2	.0	.0	.0	.0	.3	.0	.6	.2	.0	.0	.0	.7
1-2	.0	1.3	1.6	.0	.0	.0	3.1	.3	4.6	2.2	.0	.0	.0	7.1
3-4	.0	.4	2.8	.0	.0	.0	3.3	.0	3.3	7.7	.2	.0	.0	11.4
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.9	4.6	.6	.0	.0	5.4
7	.0	.0	.2	.2	.0	.0	.3	.0	.0	1.9	.6	.0	.0	2.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.3
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.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	.2	2.1	5.1	.2	.0	.0	7.5	.3	9.5	16.6	2.4	.2	.0	29.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.3	.8	.0	.0	.0	.0	1.1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	6.1	1.6	.0	.0	.0	7.7	.2	3.1	1.7	.0	.0	.0	7.1
3-4	.0	2.0	3.2	.0	.0	.0	5.2	.0	1.3	3.0	.0	.0	.0	4.2
5-6	.0	.7	2.5	.4	.0	.0	2.6	.0	.4	2.1	.0	.0	.0	2.9
7	.0	.1	.5	.3	.2	.0	1.1	.0	.4	1.2	.3	.0	.0	1.7
8-9	.0	.0	.4	.2	.0	.0	.6	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.1	.3	.0	.0	.4	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	9.7	6.3	1.2	.2	.0	19.7	.2	7.3	8.4	.7	.0	.0	16.6

PERIOD: (OVER-ALL) 1949-1973

NOVEMBER

AREA 0010 FLORIANOPOLIS
26.03 49.0W

TABLE 18 (CONT)

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

MSG	SW							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
41	.3	.3	.0	.0	.0	.0	.6	.0	.3	.0	.0	.0	.0	.3		
1-2	.4	3.2	.2	.0	.0	.0	4.0	.0	1.4	.6	.0	.0	.0	2.0		
3-4	.0	1.8	2.4	.1	.0	.0	4.3	.0	1.2	1.0	.0	.0	.0	2.2		
5-6	.2	.2	2.3	.2	.0	.0	2.8	.0	.3	1.1	.0	.0	.0	1.6		
7	.2	.0	1.3	.8	.0	.0	2.3	.0	.0	.4	.0	.0	.0	.4		
8-9	.0	.0	.3	.2	.0	.0	.7	.0	.0	.1	.0	.2	.0	.2		
10-11	.0	.0	.0	.2	.0	.0	.3	.0	.0	.4	.0	.0	.0	.4		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3		
13-16	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.4	.0	.4		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	1.2	3.3	7.0	2.0	.1	.0	13.8	.0	3.4	3.2	.8	.3	.0	7.9		

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MSG	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
41	1.0	3.1	.2	.0	.0	.0	4.9	
1-2	1.1	22.8	8.3	.0	.0	.0	32.2	
3-4	.0	10.7	20.2	.3	.0	.0	31.2	
5-6	.2	2.6	12.3	1.1	.0	.0	16.2	
7	.2	.2	3.8	2.4	.2	.0	6.7	
8-9	.0	.0	2.1	.3	.2	.0	2.6	
10-11	.0	.0	.2	1.9	.0	.0	2.1	
12	.0	.0	.3	.3	.0	.0	.6	
13-16	.0	.0	.2	.2	.2	.0	.3	
17-19	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.2	.0	.0	.2	
23-25	.0	.0	.0	.2	.3	.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	3.1	39.3	49.3	7.1	1.0	.0	100.0	618

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
40	2.0	13.0	14.7	8.6	3.4	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	409	3
5-7	.0	1.7	10.2	10.1	3.0	2.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	330	3
8-9	.0	.3	1.9	3.6	3.4	2.3	1.3	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	130	7
10-11	.0	.1	.1	.7	1.1	1.1	.3	.0	.2	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	31	9
12-13	.0	.0	.2	.3	.1	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
313	.0	.0	.0	.2	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	5	11
(NOBT)	.3	1.0	2.9	2.6	1.3	.8	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	107	4
TOTAL	2.9	18.7	33.9	27.4	17.7	8.1	3.2	1.2	.9	.3	.2	.4	.1	.0	.0	.0	.0	.0	.0	1130	3
PCT	2.5	16.3	29.5	23.8	15.4	7.0	2.8	1.0	.8	.3	.2	.3	.1	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1861-1973

AREA 0010 FLORIANOPOLIS
26.85 45.74

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.2	1.5	1.5	.0	.0	.0	.0	6.2	.0	4.0	.0	.0	.9	.0	88.9
NE	1.9	1.4	.3	.0	.0	.0	.0	3.6	.3	1.2	.3	.0	1.8	.0	92.7
E	1.3	1.3	1.3	.0	.0	.0	.0	4.0	2.8	.3	1.3	.0	.4	.0	91.3
SE	3.7	1.7	2.3	.0	.0	.0	.0	7.1	3.3	.4	.6	.0	.3	.0	88.7
S	.5	2.9	.4	.0	.0	.0	.0	3.9	1.7	.3	.0	.0	.7	.0	93.2
SW	3.9	2.0	7.2	.0	.0	.0	.0	8.1	.5	2.0	.0	.0	2.9	.0	86.3
W	.0	.0	4.3	.0	.0	.0	.0	4.3	3.2	.0	.0	.0	4.3	.0	88.2
NW	5.2	2.9	2.3	.0	.0	.0	.0	10.3	.6	.0	.0	.0	.0	.0	89.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8	.0	9.3	.0	.0	.0	.0	14.3	.0	4.8	4.8	4.8	.0	.0	71.4
TOT PCT	2.3	1.7	1.4	.0	.0	.0	.0	5.3	1.6	1.1	.6	.1	1.0	.0	90.3
TOT OBS:	1393														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	1.7	2.9	.6	.0	.0	.0	.0	5.2	2.3	2.6	.6	.0	.3	.0	89.3
0600	4.8	1.6	2.2	.0	.0	.0	.0	8.6	2.2	1.9	.6	.3	.0	.0	86.3
1200	1.3	1.3	1.3	.0	.0	.0	.0	4.0	.9	.0	.3	.0	1.8	.0	93.2
1800	1.9	1.4	1.4	.0	.0	.0	.0	4.3	1.4	.0	.3	.0	1.6	.0	92.1
TOT PCT	2.4	1.7	1.4	.0	.0	.0	.0	5.4	1.3	1.0	.6	.1	1.0	.0	90.3
TOT OBS:	1429														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT PRG	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	48+	00				06	12	18	21		
N	.6	4.4	3.8	.5	.0	.0	9.3	11.2	4.3	8.0	10.1	2.4	11.4	11.4	8.9	7.8
NE	1.2	11.8	12.3	2.0	.2	.0	27.4	11.9	27.8	28.8	27.1	24.2	27.3	27.4	26.3	23.8
E	1.1	9.8	6.7	.9	.0	.0	18.1	10.1	19.7	20.0	17.3	37.1	16.2	19.1	19.0	30.3
SE	.8	9.4	4.3	.9	.0	.0	17.8	10.7	20.4	17.2	17.8	16.9	19.0	18.7	17.4	18.0
S	.9	8.6	9.0	1.8	.1	.0	19.0	12.1	14.4	11.8	11.8	8.1	11.9	13.7	14.7	10.2
SW	.6	2.9	1.4	.9	.1	.0	6.9	12.2	9.8	7.4	5.7	6.3	8.0	7.7	6.3	1.6
W	.3	1.2	.6	.2	.0	.0	2.4	10.4	1.4	1.9	2.6	4.8	3.1	2.4	2.7	3.1
NW	.3	1.6	.8	.1	.0	.0	2.8	9.3	2.3	2.1	3.1	.0	3.4	3.4	2.4	3.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6						2.6	.0	1.7	3.1	4.2	.0	2.8	3.3	1.6	.0
TOT OBS	513	2797	2398	393	24	2	5987	10.9	1070	781	1037	31	1090	784	1092	32
TOT PCT	8.6	46.7	37.7	6.6	.4	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT PRG	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21	
N	2.2	3.2	1.8	.1	.0	7.3	11.2	7.0	9.9	11.4	8.8			
NE	3.5	16.1	3.4	.3	.1	27.4	11.9	28.2	27.1	27.4	26.3			
E	3.0	11.0	1.9	.1	.0	18.1	10.1	19.0	18.1	13.7	19.4			
SE	4.6	10.0	2.7	.2	.0	17.5	10.7	19.2	17.8	15.6	17.3			
S	3.3	6.3	2.1	.4	.0	13.0	12.1	13.2	11.1	12.7	14.6			
SW	2.1	2.7	1.8	.3	.0	6.9	12.2	6.3	5.7	6.3	6.3			
W	.9	1.0	.4	.1	.0	2.4	10.4	1.6	2.6	2.8	2.8			
NW	1.0	1.3	.3	.0	.0	2.8	9.3	2.2	3.0	3.4	2.6			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	2.6					2.6	.0	2.3	4.1	2.6	1.6			
TOT OBS	1623	3212	1042	101	7	5987	10.9	1821	1088	1974	1124			
TOT PCT	27.1	53.6	17.4	1.7	.1	100.0		100.0	100.0	100.0	100.0			

DECEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1861-1973

AREA 0010 FLORIANOPOLIS
26.05 49.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (OPT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
0000Z	2.3	4.8	46.1	39.2	7.0	.6	.1	11.4	100.0	1821
0600Z	4.1	6.9	47.9	34.5	6.1	.5	.0	10.3	100.0	1068
1200Z	2.6	7.1	47.1	36.8	6.1	.3	.1	10.6	100.0	1974
1800Z	1.6	3.8	46.0	39.9	7.0	.3	.0	11.3	100.0	1124
TOT	19.6	25.9	279.7	225.8	39.3	2.4	2	10.9		5987
PCT	2.6	6.0	46.7	37.7	6.6	.4	*	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CLOUD OBS	MEAN CLOUD COVER
NE	9.2	4.2	8.8	4.8	4.2	4.2
E	5.7	3.0	7.0	3.5	4.5	4.5
SE	4.0	3.8	6.1	3.4	4.8	4.8
S	4.2	2.8	4.6	2.1	4.6	4.6
SW	2.2	1.6	2.2	1.9	4.5	4.5
W	.4	.1	.7	.6	3.5	3.5
NW	.8	.3	.6	.9	4.7	4.7
VAR	.0	.0	.0	.0	.0	.0
CALM	.8	.2	.2	.2	3.4	3.4
TOT OBS	32.3	19.7	35.0	20.5	107.7	4.3
TOT PCT	30.2	18.8	32.8	19.8	100.0	

TABLE 6

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

WIND DIR	CEILING HEIGHTS (FT, NH >4/8)										NH <5/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3000	4000	6000	8000+		
N	.5	.0	.9	.2	.7	.8	.1	.2	.1	.0	.6	1077
NE	.5	.0	.3	1.1	2.7	2.1	.4	.6	.1	.0	19.1	1068
E	.0	.0	.3	.8	2.8	1.0	1.9	.2	.3	.3	12.8	1974
SE	.0	.0	.2	1.2	1.8	2.1	1.5	.2	.2	.1	10.5	1124
S	.1	.1	.1	.4	1.6	1.7	.4	.2	.0	.0	8.7	5987
SW	.2	.0	.0	.3	1.0	.3	.1	.3	.0	.0	5.0	
W	.0	.0	.1	.1	.3	.2	.1	.0	.0	.0	1.0	
NW	.0	.0	.0	.3	.3	.2	.1	.1	.1	.0	1.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.2	
TOT OBS	10	1	1.9	4.7	11.9	9.0	3.9	1.8	.7	.5	71.4	1077
TOT PCT	.9	.1	1.2	4.4	11.0	8.4	4.0	1.7	.6	.5	66.3	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>3	>2	>1	>1/2	>1/4	>9000	>0
>8000	1.0	1.1	1.1	1.2	1.2	1.2	1.2	1.2
>6000	1.8	2.4	2.7	2.9	2.9	2.9	2.9	2.9
>4000	3.2	6.3	7.2	7.5	7.5	7.5	7.5	7.5
>3000	11.3	14.4	13.5	15.8	15.6	15.8	15.8	15.8
>2000	20.1	25.1	26.3	26.8	26.8	26.8	26.8	26.8
>1000	23.9	29.2	30.3	31.1	31.1	31.1	31.1	31.1
>500	24.3	30.2	31.6	32.2	32.2	32.2	32.2	32.2
>150	24.4	30.3	31.7	32.3	32.3	32.3	32.3	32.3
>0	24.6	30.3	32.3	33.1	33.3	33.3	33.3	33.3
TOTAL	26.7	33.2	35.3	36.0	36.2	36.2	36.2	36.2

TOTAL NUMBER OF OBS: 1087

PCT FREQ NH <5/8: 66.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.7	14.9	17.9	11.2	9.2	6.8	7.0	8.7	10.3	.9	1148

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1961-1973

DECEMBER

AREA 0010 FLORIANOPOLIS
26.65 49.74

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
1/2<1	PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.2
1<2	PCP	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.2	.2
	NO PCP	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.4	.4
	TOT %	.0	.1	.2	.2	.2	.0	.0	.0	.0	.0	.6	.6
2<5	PCP	.1	.2	.1	.0	.0	.2	.0	.1	.0	.0	.7	.7
	NO PCP	.2	.3	.4	.2	.4	.1	.1	.0	.0	.0	1.8	1.8
	TOT %	.3	.5	.5	.2	.4	.3	.1	.1	.0	.0	2.5	2.5
5<10	PCP	.3	.4	.3	.6	.5	.2	.1	.1	.0	.1	2.5	2.5
	NO PCP	1.2	4.6	3.0	3.5	2.8	1.3	.3	.4	.0	.0	17.2	17.2
	TOT %	1.5	5.0	3.3	4.1	2.9	1.7	.4	.5	.0	.1	19.7	19.7
10+	PCP	.0	.4	.3	.6	.7	.2	.0	.1	.0	.1	1.7	1.7
	NO PCP	4.3	20.2	14.3	13.5	9.9	3.1	1.1	2.3	.0	1.1	75.1	75.1
	TOT %	4.3	20.6	14.6	14.2	10.1	3.3	1.1	2.4	.0	1.2	76.8	76.8
TOT OBS													1392
TOT PCT		8.4	26.2	19.7	18.6	13.5	7.3	1.7	3.1	.0	1.8	100.0	

TABLE 9

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

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	6-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
1/2<1	0-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	6-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
1<2	0-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	6-10	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	.3
	11-21	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	.1	.1	.1	.0	.0	.1	.0	.0	.4	.4
2<5	0-5	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	.2
	6-10	.1	.4	.2	.1	.0	.1	.1	.0	.0	.0	1.0	1.0
	11-21	.1	.2	.2	.2	.1	.1	.1	.1	.0	.0	1.1	1.1
	22+	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.4	.4
	TOT %	.2	.7	.5	.3	.3	.3	.2	.1	.0	.0	2.7	2.7
5<10	0-5	.0	.1	.1	.1	.1	.1	.1	.1	.0	.0	1.1	1.1
	6-10	.7	1.6	1.3	1.3	.8	.3	.3	.1	.0	.0	6.5	6.5
	11-21	.6	2.7	1.4	1.3	1.0	.4	.0	.3	.0	.0	7.7	7.7
	22+	.2	.4	.0	.1	.3	.1	.0	.0	.0	.0	1.4	1.4
	TOT %	1.6	4.9	2.8	2.9	2.3	1.1	.4	.3	.0	.0	16.8	16.8
10+	0-5	.3	.8	.9	.8	.6	.3	.2	.3	.0	1.7	6.3	6.3
	6-10	3.1	10.0	8.6	8.1	4.7	2.3	1.1	1.3	.0	.0	40.2	40.2
	11-21	3.1	10.1	5.3	4.7	3.9	1.9	.7	.4	.0	.0	29.9	29.9
	22+	.3	.9	.1	.4	.9	.3	.1	.0	.0	.0	3.1	3.1
	TOT %	6.9	22.4	15.2	14.0	10.1	5.3	1.7	2.0	.0	1.7	79.9	79.9
TOT OBS													3103
TOT PCT		8.0	28.2	18.7	17.3	12.8	6.9	2.4	2.7	.0	2.2	100.0	

DECEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1861-1973

AREA 0010 FLORIANOPOLIS
26.6S 49.7W

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3000	5000	6000	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000Z	.7	.0	1.8	4.8	14.0	6.6	4.4	1.8	1.1	.4	35.7	64.3	272
0600Z	2.9	.0	1.6	2.9	9.4	8.2	3.3	2.0	.8	.4	32.6	66.4	244
1201Z	.3	.3	.3	3.1	9.9	11.2	5.4	1.4	.0	.7	34.7	65.3	294
1802Z	.3	.0	.9	3.8	9.4	6.6	4.4	1.3	.9	.3	27.9	72.1	319
TOT	11	1	13	47	120	92	95	18	8	5	370	759	1129
PCT	1.0	.1	1.2	4.2	10.6	8.1	4.9	1.6	.7	.4	32.8	67.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000Z	.4	.3	.7	2.3	19.9	70.4	918
0600Z	.3	.2	.8	3.6	16.9	78.1	688
1201Z	.1	.0	.6	2.9	16.3	79.8	991
1802Z	.0	.2	.9	1.8	13.7	83.4	664
TOT	7	3	23	83	594	2489	3141
PCT	.2	.2	.7	2.6	17.0	79.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50FT	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000Z	.8	2.7	8.3	28.3	63.1	260
0600Z	3.0	4.7	9.8	23.8	66.4	235
1201Z	.3	1.0	9.7	26.3	64.0	289
1802Z	.3	1.0	6.3	22.1	71.6	303
TOT	11	24	92	273	722	1087
PCT	1.0	2.2	8.3	23.1	66.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.1	.4	.1	.1	.0	7	.8
80/84	.0	.0	.0	.2	.7	1.3	2.8	.3	61	5.6
75/79	.0	.0	.3	1.3	2.9	10.2	14.7	6.8	422	38.3
70/74	.0	.0	.1	1.8	9.1	17.6	12.9	12.7	340	29.2
65/69	.0	.0	.0	.7	1.1	1.2	1.3	1.4	64	5.8
60/64	.0	.0	.0	.0	.0	.2	.1	.1	3	.3
TOTAL	0	0	7	43	186	381	393	233	1097	100.0
PCT	.0	.0	.6	4.1	14.2	29.6	32.2	23.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.3	.0	.0	.0	.1	.1	.0	.0	.0
80/84	1.2	2.2	.6	.3	.2	.3	.3	.2	.0	.4
75/79	4.2	10.8	6.3	3.9	3.1	3.0	.8	1.9	.0	.8
70/74	2.7	11.3	11.3	10.1	7.5	3.9	.8	1.0	.0	.3
65/69	.1	.9	1.1	2.2	.7	.5	.1	.2	.0	.0
60/64	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0
TOTAL	8.2	23.8	19.3	18.7	13.7	7.7	1.8	3.3	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (500 F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	82	80	78	73	68	61	63	73.4	1818
0600Z	82	79	77	71	68	61	62	72.6	1074
1201Z	88	85	81	75	69	61	64	73.1	1911
1802Z	92	85	82	76	70	61	66	73.9	1078
TOT	92	82	80	74	69	61	62	74.2	5879

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	2.4	10.8	22.2	35.9	28.6	62	287
0600Z	.0	3.3	4.8	23.4	28.7	34.8	82	244
1201Z	.0	3.3	14.7	23.3	35.3	19.3	80	300
1802Z	.0	6.6	20.6	30.2	27.5	13.1	76	291
TOT	0	9.6	159	283	329	263	80	1122

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1861-1973

DECEMBER

APEA 0010 FLORIANOPOLIS
26.6S 45.7W

TABLE 17

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

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TCT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.1	.0	.0	.1	.2	4	.0	.3
9/10	.0	.0	.0	.1	.6	.2	.1	13	.0	1.0
7/8	.0	.0	.0	.2	.8	.6	.2	22	.0	1.7
6	.0	.0	.1	.2	.6	.3	.1	17	.0	1.3
5	.0	.0	.0	.5	1.0	.4	.2	26	.0	2.1
4	.0	.0	.2	.8	2.3	.4	.0	50	.0	4.0
3	.0	.0	.2	1.4	2.2	.2	.0	90	.0	4.0
2	.0	.2	.6	4.4	3.6	.2	.0	112	.0	8.9
1	.0	.1	1.5	3.3	3.3	.3	.0	138	.1	10.8
0	.0	.3	4.3	10.3	3.1	.2	.0	236	.0	18.7
-1	.0	.1	3.7	8.9	1.9	.1	.0	186	.2	14.6
-2	.0	.6	3.3	3.6	1.2	.0	.0	160	.0	12.7
-3	.0	.9	4.0	2.9	.4	.0	.0	103	.2	8.0
-4	.1	.2	4.3	1.0	.0	.0	.0	70	.0	5.3
-5	.0	.7	1.7	.4	.0	.0	.0	36	.1	2.8
-6	.0	.6	.8	.3	.1	.0	.0	22	.0	1.7
-7/-8	.1	.3	.6	.0	.0	.0	.0	12	.1	.9
-9/-10	.1	.2	.1	.0	.0	.0	.0	4	.0	.3
-11/-12	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	4		349		272		10	1263	7	1256
PCT	.3	4.0	27.6	42.8	21.3	2.9	.8	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

HGT	N						PCT	NE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
01	.0	.3	.0	.0	.0	.0	.3	.1	.3	.0	.0	.0	.0	.0	.5
1-2	.0	1.6	.0	.0	.0	.0	1.6	.3	6.3	2.2	.0	.0	.0	.0	9.0
3-4	.3	1.0	1.0	.0	.0	.0	2.3	.0	3.7	3.9	.3	.0	.0	.0	9.9
5-6	.0	.0	1.9	.0	.0	.0	1.9	.0	.3	4.1	.3	.0	.0	.0	4.9
7	.0	.2	1.4	.3	.0	.0	1.9	.0	.1	1.3	.8	.0	.0	.0	2.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.3	.0	.3	.0	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.1	4.3	.3	.3	.0	8.7	.3	11.2	13.6	1.7	.0	.0	.0	26.8

HGT	E						PCT	SE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
01	.7	1.1	.7	.0	.0	.0	1.8	.1	.7	.0	.0	.0	.0	.0	.7
1-2	.2	4.6	1.3	.0	.0	.0	6.3	.6	3.3	.9	.0	.0	.0	.0	9.0
3-4	.0	2.9	3.3	.0	.0	.0	6.4	.0	2.2	1.9	.3	.0	.0	.0	4.3
5-6	.0	.9	2.6	.0	.0	.0	3.5	.0	.3	2.4	.3	.0	.0	.0	3.0
7	.0	.0	.3	.3	.0	.0	.7	.0	.0	.3	.3	.0	.0	.0	.3
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	9.3	10.3	.3	.0	.0	21.0	.7	6.9	3.7	.9	.0	.0	.0	14.1

PERIOD: (OVER-ALL) 1969-1979

DECEMBER

AREA 0010 FLORIANOPOLIS
26.85 45.7V

TABLE 18 (CONT)

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

HGT	S						PCT	SW						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4
1-2	.3	2.5	.3	.0	.0	.0	3.1	.0	2.4	.5	.0	.0	.0	.0	2.9
3-4	.0	.7	3.5	.7	.0	.0	5.0	.0	.1	.4	.4	.0	.0	.0	.9
5-6	.0	.5	2.6	1.0	.0	.0	4.1	.0	.1	.4	.3	.0	.0	.0	.7
7	.0	.0	.2	1.1	.0	.0	1.3	.0	.0	.4	.0	.0	.0	.0	.0
8-9	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.8	7.7	2.8	.0	.0	15.1	.0	2.9	2.0	1.0	.0	.0	.0	9.8

HGT	W						PCT	NW						TOTAL PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3
1-2	.0	1.0	.7	.0	.0	.0	1.7	.0	1.4	.3	.0	.0	.0	.0	1.9
3-4	.0	.7	.0	.0	.0	.0	.7	.0	1.2	.0	.0	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	.7	.0	.0	.0	2.4	.3	2.7	.3	.0	.0	.0	.0	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	4.0	3.3	.0	.0	.0	.0	8.0	08F
1-2	1.6	23.3	6.4	.0	.0	.0	31.4	
3-4	.3	12.3	18.0	1.6	.0	.0	32.4	
5-6	.0	2.1	13.9	1.9	.0	.0	18.0	
7	.0	.3	4.6	2.7	.0	.0	7.6	
8-9	.6	.3	.8	.0	.0	.0	1.1	
10-11	.0	.0	.3	.3	.0	.0	1.3	
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	6.7	41.8	44.2	7.0	.3	.0	100.0	373

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	2.7	10.4	16.1	9.1	1.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	334	3
6-7	.1	1.9	12.6	11.2	5.9	2.3	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	307	5
8-9	.0	.1	2.3	3.3	2.4	1.4	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	6
10-11	.0	.3	.3	.6	.1	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	6
12-13	.0	.0	1.4	.1	.0	.2	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	6
>13	.0	.0	.0	.0	.2	.0	.0	.0	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	13
INDEX	2.1	1.1	3.4	1.0	.9	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	81	3
TOTAL	43	118	317	224	100	41	23	2	9	0	1	0	0	0	0	0	0	0	0	0	878	4
PCT	4.9	13.4	36.1	25.5	11.4	4.7	2.6	.2	1.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1919-1973
(OVER-ALL) 1894-1973

ANNUAL

AREA 0010 FLORIANOPOLIS
26.6S 43.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	ORZL	FRZD PCPN	SNOW	OTHER PRIN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	FOG MO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.5	1.0	.9	.0	.0	.0	.0	4.3	1.1	2.2	2.0	.1	1.1	.0	89.5
NE	2.0	1.3	1.0	.0	.0	.0	.0	4.3	1.4	1.7	1.9	.0	1.6	.0	89.2
E	3.4	2.1	1.4	.0	.0	.0	.0	6.7	2.6	1.3	1.1	.1	.8	.0	87.4
SE	4.2	3.1	2.1	.0	.0	.0	.0	9.0	3.5	1.2	1.3	.0	.8	.1	84.4
S	3.4	2.4	1.9	.0	.0	.0	.0	7.3	3.1	.9	1.0	.0	.7	.0	87.0
SW	3.8	2.6	1.3	.0	.0	.0	.0	7.6	3.0	1.8	1.4	.2	1.0	.0	85.1
W	3.0	3.7	2.1	.0	.0	.0	.0	8.8	2.8	2.8	1.4	.0	1.0	.0	83.5
NW	3.3	1.5	1.6	.0	.0	.0	.0	8.3	2.4	3.3	2.0	.1	1.0	.0	83.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0	.6	.8	.0	.0	.0	.0	3.4	1.3	4.1	2.3	.7	2.4	.0	86.2
TOT PCT	3.0	3.0	1.4	.0	.0	.0	.0	6.3	2.3	1.6	1.3	.1	1.1	.0	87.3
TOT OBS:	20691														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	ORZL	FRZD PCPN	SNOW	OTHER PRIN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	FOG MO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0600Z	3.0	2.2	1.3	.0	.0	.0	.0	6.7	2.2	3.7	1.6	.0	.8	.0	85.5
0630Z	3.8	1.9	1.9	.0	.0	.0	.0	7.3	2.7	2.7	1.3	.1	.8	.0	85.3
1201Z	2.7	2.3	1.1	.0	.0	.0	.0	6.0	1.9	.2	1.8	.0	1.3	.0	88.8
1821Z	2.7	1.4	1.3	.0	.0	.0	.0	2.3	2.3	.2	1.6	.1	1.4	.0	89.2
TOT PCT	3.0	1.9	1.4	.0	.0	.0	.0	6.3	2.3	1.6	1.3	.1	1.1	.0	87.3
TOT OBS:	21198														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							40+	TOTAL OBS	PCT PRES	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00					03	06	09	12	15	18	21
N	.0	8.6	4.9	.8	.0	.0	.0	12.2	11.3	9.8	10.8	12.7	13.1	13.9	13.8	11.7	13.7	
NE	1.2	10.3	11.0	2.0	.1	.0	.0	24.9	12.1	20.0	20.1	24.9	27.0	24.4	22.7	23.0	23.2	
E	.9	7.6	9.1	.8	.1	.0	.0	14.4	10.7	16.8	16.3	14.3	16.7	12.6	12.9	13.8	16.7	
SE	.9	7.2	8.2	1.0	.1	.0	.0	14.3	11.2	16.3	15.8	13.8	10.3	12.9	13.4	14.2	14.3	
S	.9	8.9	9.9	1.6	.1	.0	.0	13.6	12.6	14.7	12.3	12.8	14.4	13.0	13.1	13.4	14.1	
SW	.6	3.7	3.9	1.8	.3	.0	.0	10.4	13.7	9.0	9.3	9.9	8.6	11.3	11.9	10.8	7.8	
W	.3	1.7	.9	.3	.1	.0	.0	3.9	10.6	2.4	7.9	3.6	4.3	4.3	4.2	3.3	3.7	
NW	.3	2.4	1.2	.3	.0	.0	.0	4.2	9.4	2.3	3.4	4.3	3.6	3.0	3.3	3.9	3.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.3							2.3	.0	2.9	3.0	3.2	1.1	2.3	2.3	1.8	.9	
TOT OBS							77443		11.3	13004	9363	13675	829	14033	11137	14043	953	
TOT PCT	8.6	44.1	37.7	8.3	.8	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT PRES	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	03	09	15	21
N	3.0	6.6	2.4	.2	.0	12.2	11.3	10.2	12.7	13.9	11.8	
NE	3.0	13.8	3.6	.3	.0	24.9	12.1	20.0	25.1	23.6	23.0	
E	3.8	8.2	2.2	.2	.0	14.4	10.7	16.8	14.6	12.7	13.9	
SE	3.7	7.8	2.8	.3	.0	14.3	11.2	16.3	13.7	13.4	14.2	
S	3.1	6.6	3.4	.3	.0	13.6	12.6	14.7	12.8	13.0	13.7	
SW	2.3	3.2	3.0	.8	.1	10.4	13.7	9.0	9.3	9.9	11.7	
W	1.3	1.4	.6	.2	.0	3.9	10.6	2.4	3.6	4.2	3.3	
NW	1.6	2.1	.3	.0	.0	4.2	9.4	2.3	3.4	4.3	3.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.3					2.3	.0	2.9	3.1	2.3	1.7	
TOT OBS						77443		13004	9363	13675	829	
TOT PCT	26.3	30.7	20.1	2.7	.2	100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

ANNUAL

AREA 0010 FLORIANOPOLIS
26.85 45.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
0000	2.6	3.9	44.5	37.6	8.5	.9	-.1	11.6	100.0	23467	
0600	3.1	6.3	45.7	36.2	8.0	.7	-.1	11.2	100.0	14204	
1215	2.3	7.0	43.5	37.4	8.7	.8	-.1	11.3	100.0	29172	
1821	1.7	3.8	43.2	40.0	8.5	.7	-.1	11.8	100.0	14800	
TOT								11.3		77443	
PCT	2.3	6.3	44.1	37.7	8.5	.8	-.1	100.0			

TABLE 4

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

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
NE	9.0	5.4	7.4	4.9		4.1
E	4.2	2.3	4.3	3.0		4.3
SE	3.1	2.6	4.7	3.4		3.0
S	3.7	2.8	4.3	4.7		4.9
SW	2.9	2.0	3.0	2.3		4.6
W	1.0	.4	.8	.7		4.3
NW	1.0	.6	.9	.8		4.3
VAR	.0	.0	.0	.0		.0
CALM	.7	.2	.3	.3		3.7
TOT OBS					15239	4.3
TOT PCT	36.1	19.1	28.9	21.8	100.0	

TABLE 5

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

OBS	CEILING HEIGHTS (FT, NH >4/8)										NH <5/8 ANY HGT	TOTAL OBS
	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+		
N	.1	0	.2	.3	1.2	.7	.4	.1	.1	.1	.1	9.0
NE	.1	0	.3	1.3	2.8	1.6	1.1	.3	.1	.1	.1	18.7
E	.1	0	.2	.9	1.8	1.2	.6	.2	.1	.1	.1	9.0
SE	.1	0	.3	1.2	1.9	1.1	.8	.2	.1	0	0	7.7
S	.1	.1	.3	1.3	2.2	1.4	.7	.2	.1	.1	.1	8.5
SW	.1	0	.1	.8	1.4	.7	.9	.2	0	0	0	6.2
W	0	0	0	.2	.3	.2	.2	0	0	0	0	1.6
NW	0	0	0	.3	.3	.2	.2	.1	0	0	0	2.3
VAR	0	0	0	0	0	0	0	0	0	0	0	0
CALM	0	0	0	.1	.1	.1	0	0	0	0	0	1.1
TOT OBS												15239
TOT PCT	.8	.2	1.3	7.0	12.1	7.2	4.5	1.4	.3	.3	64.3	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>8	>6	>4	>1/2	>1/4	>0/8	>0
>8000	.8	.9	1.0	1.0	1.0	1.0	1.0	1.0
>4000	1.7	2.2	2.3	2.3	2.4	2.4	2.4	2.4
>2000	4.8	6.3	6.8	6.8	6.9	6.9	6.9	6.9
>1000	10.0	13.1	13.9	14.0	14.1	14.1	14.1	14.1
>500	18.7	24.6	25.2	26.1	26.2	26.2	26.2	26.2
>200	23.2	31.0	32.7	33.0	33.1	33.1	33.1	33.1
>100	25.9	32.3	34.1	34.4	34.5	34.5	34.5	34.5
>50	24.0	32.3	34.3	34.6	34.7	34.7	34.7	34.7
>0	24.1	32.9	34.8	35.3	35.4	35.5	35.6	35.6

TOTAL NUMBER OF OBS: 15447

PCT FREQ NH <5/8: 64.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
13.9	14.6	15.2	12.1	8.8	6.2	7.1	8.0	14.5	.6	16803

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

ANNUAL

AREA 0010 FLORIANOPOLIS
26.83 43.7W

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	0	0	0	0	0	0	.0	0	.0	.0	.1	
	NO PCP	0	0	0	0	0	0	0	0	.0	0	.2	
	TOT %	0	0	0	0	0	0	0	0	.0	0	.2	
1/2<1	PCP	0	0	.0	0	0	0	0	0	.0	.0	.1	
	NO PCP	0	.1	0	0	.0	0	0	0	.0	0	.1	
	TOT %	0	.1	0	0	0	0	0	0	.0	0	.2	
1<2	PCP	0	.1	0	.1	.1	0	.0	0	.0	0	.4	
	NO PCP	0	.1	.1	0	.1	.1	0	0	.0	.0	.4	
	TOT %	.1	.2	.1	.1	.1	.1	0	0	.0	0	.7	
2<5	PCP	.1	.2	.1	.1	.2	.1	0	0	.0	0	.4	
	NO PCP	.3	.5	.2	.2	.3	.2	.1	.1	.0	0	2.1	
	TOT %	.4	.7	.4	.4	.5	.4	.1	.1	.0	0	3.0	
5<10	PCP	.2	.6	.5	.7	.5	.4	.2	.1	.0	0	3.3	
	NO PCP	2.3	3.7	3.0	2.9	2.7	2.3	.7	.8	.0	.3	20.8	
	TOT %	2.7	6.3	3.5	3.6	3.3	2.7	.9	.9	.0	.3	24.1	
10+	PCP	.1	.3	.2	.3	.3	.2	.1	.1	.0	0	1.4	
	NO PCP	8.7	18.9	10.3	9.5	10.3	6.8	1.9	2.4	.0	1.0	70.1	
	TOT %	8.8	19.2	10.5	9.8	10.6	7.0	2.0	2.5	.0	1.0	71.7	
TOT OBS													20831
TOT PCT													12.1 26.6 14.3 13.9 14.7 10.2 3.0 3.6 .0 1.4 100.0

TABLE 9

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

VSBY (MM)	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	.1	
	4-10	0	0	0	0	0	0	0	0	.0	0	.1	
	11-21	0	0	0	0	0	0	0	0	.0	0	.1	
	22+	0	0	0	0	0	0	0	0	.0	0	.1	
	TOT %	0	.1	0	0	0	0	0	0	.0	0	.3	
1/2<1	0-3	0	0	0	0	.0	0	.0	.0	.0	0	0	
	4-10	0	0	0	0	0	0	0	0	.0	0	.1	
	11-21	0	0	.0	0	0	0	0	0	.0	0	.1	
	22+	.0	0	0	0	.0	.0	.0	.0	.0	0	0	
	TOT %	0	.1	0	0	0	0	0	0	.0	0	.2	
1<2	0-3	0	0	0	0	0	0	0	0	.0	0	.1	
	4-10	0	.1	.1	0	0	0	0	0	.0	0	.3	
	11-21	.1	.1	0	.1	.1	0	0	0	.0	0	.4	
	22+	0	0	0	0	0	0	0	0	.0	0	.1	
	TOT %	.1	.2	.1	.1	.1	.1	0	0	.0	0	.8	
2<5	0-3	0	0	0	0	0	0	0	0	.0	0	.2	
	4-10	.2	.3	.2	.2	.2	.1	.1	.1	.0	0	1.3	
	11-21	.2	.4	.2	.2	.3	.1	0	.1	.0	0	1.3	
	22+	0	.1	.1	.1	.1	.1	0	0	.0	0	.6	
	TOT %	.3	.8	.5	.5	.5	.3	.1	.2	.0	0	3.6	
5<10	0-3	.1	.2	.2	.1	.1	.1	.1	.1	.0	.4	1.3	
	4-10	1.0	1.9	1.2	1.1	.9	.7	.4	.5	.0	0	7.7	
	11-21	1.1	2.4	1.2	1.3	1.2	.8	.2	.3	.0	0	8.4	
	22+	.2	.6	.3	.4	.3	.3	.1	0	.0	0	2.0	
	TOT %	2.3	5.1	2.8	2.9	2.6	2.1	.7	.8	.0	.4	20.0	
10+	0-3	.6	.9	.6	.6	.6	.4	.3	.4	.0	1.6	6.0	
	4-10	4.3	8.6	6.2	5.5	4.4	2.9	1.3	1.8	.0	0	35.3	
	11-21	3.8	8.8	3.7	3.6	4.3	3.3	.7	.8	.0	0	29.0	
	22+	.4	1.1	.4	.3	1.0	1.3	.2	.1	.2	0	4.9	
	TOT %	9.4	19.3	10.8	10.3	10.3	7.9	2.5	2.1	.0	1.6	75.2	
TOT OBS													43129
TOT PCT													12.7 23.6 14.3 13.7 13.7 10.3 3.4 4.2 .0 2.0 100.0

ANNUAL

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

AREA 0010 FLORIANOPOLIS
26.6S 45.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/MH >4/8) AND OCCURRENCE OF NH <3/8 BY HOUR

HRUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL DBS
0000	1.2	.2	1.3	6.7	11.1	6.0	3.9	1.2	.3	.6	32.9	67.1	3867
0600	.9	.1	1.3	6.6	12.7	6.6	4.3	1.1	.3	.3	35.0	65.0	3376
1200	.6	.3	1.3	7.1	11.9	8.4	4.7	1.4	.4	.5	36.9	63.1	4288
1800	.6	.2	1.3	6.4	11.2	6.9	4.6	1.6	.3	.3	33.7	66.3	4309
TOT													16042
PCT	.8	.2	1.3	6.7	11.7	7.0	4.4	1.3	.3	.3	34.6	65.4	100.0

TABLE 11

PERCENT FREQUENCY (SBY) (NH) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL DBS
0000	.3	.2	.7	3.6	21.3	73.8	12492
0600	.4	.2	.8	4.0	21.1	72.5	6702
1200	.3	.1	.9	3.6	19.8	75.3	13254
1800	.3	.2	.9	3.3	17.9	77.5	9213
TOT							43641
PCT	.3	.2	.8	3.6	20.1	75.0	100.0

TABLE 12

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

HRUR (GMT)	<150 <300	<600 <1	<1000 <3	1000+ AND 3+	NH <3/8 AND 3+	TOTAL DBS
0000	1.2	3.1	12.1	22.8	69.1	3694
0600	.9	2.7	12.3	23.0	62.7	3434
1200	.7	2.6	12.4	26.2	61.4	4146
1800	.6	2.3	11.1	24.2	64.7	4173
TOT						13447
PCT	.8	2.7	12.0	24.6	63.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
99/99	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
95/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90/89	.0	.0	.0	.2	.2	.1	.0	.0	.0	.0
85/84	.0	.0	.1	.6	1.9	3.5	.6	.0	.0	.0
75/79	.0	.0	.1	.8	2.5	7.0	10.4	5.2	27.1	.0
70/74	.0	.0	.1	1.1	4.0	8.0	12.2	8.0	33.7	.0
65/69	.0	.0	.1	1.4	3.6	5.0	7.0	3.6	22.9	.0
60/64	.0	.0	.1	1.4	3.6	5.0	7.0	3.6	22.9	.0
55/59	.0	.0	.1	1.4	3.6	5.0	7.0	3.6	22.9	.0
50/54	.0	.0	.1	1.4	3.6	5.0	7.0	3.6	22.9	.0
TOTAL									13956	100.0
PCT	.0	.0	.3	4.0	13.8	23.5	34.2	22.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
99/99	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
95/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90/89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
75/79	1.1	2.3	.6	.9	.4	.2	.1	.3	.0	.2
70/74	3.0	7.9	4.4	4.1	3.3	1.9	.6	1.1	.0	.4
65/69	4.2	10.8	3.8	3.2	4.4	2.8	1.0	1.2	.0	.4
60/64	2.2	4.8	3.3	3.6	4.1	3.1	.7	.8	.0	.3
55/59	.8	.3	.4	.9	1.8	1.8	.4	.2	.0	.1
50/54	.0	.0	.0	.1	.3	.3	.0	.0	.0	.0
TOTAL	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCT	11.6	26.6	14.6	14.2	14.6	10.4	3.0	3.6	.0	1.4

TABLE 15

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

HRUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
0000	90	78	74	71	65	62	48	71.1	23423
0600	86	77	74	71	65	61	47	70.3	14234
1200	93	81	79	75	68	62	48	72.3	24803
1800	93	83	80	75	67	63	51	73.1	14117
TOT	95	81	78	72	66	62	47	71.8	76277

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
0000	.0	2.8	11.7	22.5	36.2	26.7	82	4292		
0600	.0	2.8	11.5	21.3	33.0	29.5	82	3669		
1200	.0	3.4	13.0	26.4	34.1	19.2	78	4442		
1800	.0	7.2	17.0	30.9	30.9	13.0	77	3916		
TOT	0	7.47	22.66	41.36	33.62	33.88	80	16319		

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1954-1973

ANNUAL

AREA 0010 FLORIANUPOLIS
24.65 45.74

TABLE 17

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

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.0
16/18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	81	.0	.3
9/10	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	88	.0	.5
7/8	.0	.0	.0	.0	.1	.2	.2	.3	.2	.2	.1	.1	228	.0	1.2
6	.0	.0	.0	.0	.1	.1	.3	.2	.2	.1	.1	.1	182	.0	1.0
5	.0	.0	.0	.1	.2	.4	.5	.6	.5	.4	.3	.3	381	.0	2.1
4	.0	.0	.0	.1	.3	.6	.9	.8	.7	.6	.5	.4	581	.1	3.1
3	.0	.0	.0	.1	.5	1.1	1.2	1.0	.9	.8	.7	.6	739	.1	4.0
2	.0	.0	.0	.3	.9	2.1	2.2	1.8	.7	.7	.6	.5	1452	.1	7.8
1	.0	.0	.0	.3	1.1	2.8	3.0	2.4	.5	.5	.4	.3	1879	.1	10.1
0	.0	.0	.0	.7	2.0	5.0	4.9	3.9	.4	.4	.3	.2	3127	.3	18.7
-1	.0	.0	.1	.4	3.0	4.2	4.3	2.8	.2	.2	.1	.1	2381	.2	13.8
-2	.0	.0	.1	.6	2.2	3.6	3.6	1.5	.1	.1	.0	.0	2179	.1	11.7
-3	.0	.0	.1	.8	2.3	2.5	2.4	1.7	.0	.0	.0	.0	1589	.1	8.9
-4	.0	.0	.1	.7	1.9	1.9	.4	.3	.0	.0	.0	.0	1189	.0	6.4
-5	.0	.0	.1	.6	1.5	1.2	.9	.2	.0	.0	.0	.0	847	.0	4.3
-6	.0	.0	.1	.5	.8	.6	.4	.0	.0	.0	.0	.0	494	.0	2.4
-7/-8	.0	.1	.3	.8	.6	.2	.0	.0	.0	.0	.0	.0	313	.0	1.7
-9/-10	.0	.1	.3	.2	.2	.1	.0	.0	.0	.0	.0	.0	171	.0	.9
-11/-13	.0	.0	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	101	.0	.5
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	.0	.1
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.0
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.0
TOTAL													18423		
PCT	.0	.3	1.6	6.5	17.3	26.9	26.5	16.7	3.6	.9	.1	.0	100.0	1.4	98.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

HGT	NE						PCT	SE							
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.2	.7	.0	.0	.0	.0	.9	.3	.7	.1	.0	.0	.0	.0	1.0
1-2	.1	3.0	1.1	.0	.0	.0	4.2	.2	3.6	2.2	.0	.0	.0	.0	8.0
3-4	.1	1.0	2.3	.1	.0	.0	3.6	.0	3.1	3.3	.2	.0	.0	.0	8.7
5-6	.0	.3	1.8	.2	.0	.0	2.2	.0	.7	3.8	.5	.0	.0	.0	5.0
7	.0	.1	.7	.3	.0	.0	1.1	.0	.2	1.7	.7	.0	.0	.0	2.7
8-9	.0	.0	.1	.1	.0	.0	.3	.0	.0	.5	.1	.0	.0	.0	.7
10-11	.0	.0	.0	.1	.0	.0	.2	.0	.0	.1	.3	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.9	6.3	.8	.0	.0	12.4	.6	10.3	14.0	2.0	.0	.0	.0	27.1

HGT	E						PCT	SE							
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.2	.7	.0	.0	.0	.0	.9	.3	.7	.1	.0	.0	.0	.0	1.0
1-2	.2	4.2	.9	.0	.0	.0	5.3	.2	3.2	.8	.0	.0	.0	.0	4.2
3-4	.0	1.9	2.7	.1	.0	.0	4.7	.0	1.9	2.1	.1	.0	.0	.0	4.1
5-6	.0	.3	1.7	.2	.0	.0	2.3	.0	.4	1.6	.1	.0	.0	.0	2.1
7	.0	.1	.6	.3	.0	.0	1.0	.0	.1	.5	.3	.0	.0	.0	1.0
8-9	.0	.0	.1	.1	.0	.0	.3	.0	.0	.1	.2	.0	.0	.0	.4
10-11	.0	.0	.1	.1	.0	.0	.1	.0	.0	.1	.1	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	7.4	6.1	.8	.0	.0	14.7	.5	6.3	9.2	.9	.0	.0	.0	12.9

PERIOD: (OVER-ALL) 1963-1973

ANNUAL
TABLE 18 (CONT)

AREA 0010 FIDRIANOPOLIS
26.83 45.7W

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

HGT	SW						PCT	NW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.2	.7	.1	.0	.0	.0	1.0	.1	.5	.0	.0	.0	.0	.0
1-2	.2	2.9	.7	.0	.0	.0	4.0	.1	1.8	.6	.0	.0	.0	2.5
3-4	.0	1.7	2.7	.2	.0	.0	4.6	.0	.9	1.6	.2	.0	.0	2.7
5-6	.0	.4	2.4	.4	.0	.0	3.3	.0	.3	1.4	.2	.0	.0	1.9
7	.0	.0	.9	.4	.0	.0	1.3	.0	.0	.5	.3	.1	.0	.8
8-9	.0	.0	.3	.3	.0	.0	.7	.0	.0	.2	.2	.0	.0	.3
10-11	.0	.0	.1	.2	.0	.0	.3	.0	.0	.2	.2	.0	.0	.2
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.8	7.4	1.8	.1	.0	13.4	.2	3.4	4.3	1.2	.2	.0	9.3

HGT	SW						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.1	.1	.0	.0	.0	.0	.2	.1	.3	.0	.0	.0	.0	.4
1-2	.1	.7	.0	.0	.0	.0	1.0	.0	1.0	.2	.0	.0	.0	1.3
3-4	.0	.3	.3	.0	.0	.0	.7	.0	.5	.3	.0	.0	.0	.8
5-6	.0	.1	.2	.0	.0	.0	.4	.0	.1	.3	.1	.0	.0	.4
7	.0	.0	.1	.1	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.2	1.0	.2	.1	.0	2.7	.2	1.9	1.1	.1	.0	.0	5.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
01	4.1	4.6	.4	.0	.0	.0	9.1	6183
1-2	1.4	22.3	6.9	.0	.0	.0	30.6	
3-4	.2	11.3	17.4	.8	.0	.0	29.6	
5-6	.1	2.6	13.0	1.4	.0	.0	17.3	
7	.1	.0	3.1	2.2	.1	.0	5.2	
8-9	.0	.0	1.4	1.0	.1	.0	2.5	
10-11	.0	.0	.4	1.0	.1	.0	1.3	
12	.0	.0	.1	.3	.0	.0	.3	
13-16	.0	.0	.1	.3	.1	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.8	41.5	44.7	7.9	.3	.0	100.0	

PERIOD: (OVER-ALL) 1963-1973

TABLE 19

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

PERIOD (SEC)	01	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		
06	2.4	10.6	13.2	6.3	2.2	.6	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4376	3	
6-7	.1	1.7	8.9	10.8	5.7	2.3	1.0	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3967	3	
8-9	.0	.4	2.0	3.7	4.3	2.1	1.2	.3	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1876	7	
10-11	.0	.4	.5	.7	1.0	.7	.6	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	371	7	
12-13	.0	.0	.4	.2	.2	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	192	8	
13	.0	.0	.0	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	10	
INDFT	2.1	2.0	2.9	1.9	1.3	.8	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1490	4	
TOTAL																						12757	3
PCT	4.6	13.1	27.9	23.7	14.8	6.9	3.0	1.3	1.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0		

TABLE 20

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

SEA TEMP 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	
95/99	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	
85/86	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	.0	
83/84	.4	.9	.7	.2	.0	.0	.0	.0	.0	.0	.0	.1	141	.2	
81/82	3.4	9.1	8.3	1.9	.2	.0	.0	.0	.0	.0	.0	.0	1446	1.9	
79/80	14.3	28.3	23.6	8.7	1.0	.2	.0	.0	.0	.1	.1	.2	2.6	4988	6.7
77/78	32.3	36.3	23.4	26.2	6.1	1.3	.2	.2	.2	.4	1.6	10.6	9290	12.3	
75/76	30.9	17.8	20.3	29.8	19.2	6.3	1.3	.5	.5	1.4	6.8	27.6	10090	13.3	
73/74	13.8	9.6	6.9	20.8	30.4	20.4	10.3	6.1	4.8	8.9	23.3	33.0	11716	15.8	
71/72	3.2	1.1	1.6	6.4	20.3	24.0	19.2	17.8	18.6	28.2	32.3	16.1	11926	15.9	
69/70	.9	.4	.4	2.7	12.3	17.3	21.0	23.3	23.1	28.3	20.9	9.2	9423	13.2	
67/68	.4	.2	.3	.7	5.3	13.1	16.3	18.8	21.7	21.3	9.6	1.7	6649	9.2	
65/66	.1	.1	.1	.4	2.2	7.3	11.6	12.8	13.7	10.6	2.2	.3	3833	3.2	
63/64	.0	.0	.0	.1	1.2	3.7	10.4	10.3	9.6	4.8	.7	.1	2667	3.6	
61/62	.0	.0	.1	.0	.2	2.2	3.0	3.7	3.3	1.4	.2	.0	1147	1.3	
59/60	.0	.0	.0	.0	.1	1.0	2.6	3.0	1.3	.3	.0	.0	338	.7	
57/58	.0	.0	.0	.0	.0	.4	1.0	1.1	.3	.1	.0	.0	189	.3	
55/56	.0	.0	.0	.0	.0	.2	.4	.2	.3	.0	.0	.0	72	.1	
53/54	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	19	.0	
51/52	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	10	.0	
49/50	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	3	.0	
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
25/26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
23/24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
21/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
19/20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
17/18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
15/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
13/14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
11/12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
7/8	.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	
3/4	.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	
TOTAL	8962	3882	6374	6482	6379	6682	6224	6250	5923	6169	6067	5761	74339	100.0	
MEAN	76.4	77.7	77.4	73.4	72.9	70.0	68.1	67.7	68.0	69.1	71.3	74.0	72.3		

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1012	1012	1011	1011	1012	1012	1011	1011	1012	3174
FEB	1012	1013	1011	1011	1013	1013	1012	1010	1012	3148
MAR	1014	1014	1013	1017	1014	1014	1013	1013	1014	3216
APR	1017	1017	1013	1015	1017	1017	1016	1013	1016	3671
MAY	1018	1018	1017	1017	1018	1018	1017	1016	1018	3363
JUN	1019	1019	1019	1017	1020	1019	1018	1016	1019	3343
JUL	1021	1021	1020	1018	1021	1021	1020	1018	1021	3346
AUG	1020	1020	1019	1017	1020	1020	1019	1017	1019	3231
SEP	1019	1018	1017	1017	1019	1019	1017	1017	1018	3033
OCT	1016	1017	1013	1014	1017	1017	1016	1014	1016	3176
NOV	1014	1014	1013	1013	1013	1013	1013	1013	1014	3273
DEC	1012	1013	1012	1011	1013	1013	1012	1013	1012	2841
ANN	1016	1016	1013	1014	1017	1017	1013	1014	1016	30121
OBS	7679	3413	7363	534	7968	4324	7473	361		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	997	1001	1005	1009	1012	1014	1017	1020	1024
FEB	996	1002	1006	1010	1012	1013	1016	1020	1023
MAR	998	1003	1007	1011	1014	1016	1020	1022	1023
APR	1000	1003	1009	1014	1016	1019	1022	1023	1029
MAY	998	1004	1010	1013	1018	1021	1023	1027	1032
JUN	996	1006	1010	1016	1019	1027	1027	1030	1034
JUL	991	1006	1012	1017	1021	1024	1028	1031	1036
AUG	1001	1006	1010	1016	1020	1023	1028	1031	1036
SEP	993	1003	1009	1014	1018	1022	1026	1030	1034
OCT	997	1003	1007	1013	1016	1020	1024	1027	1033
NOV	996	1003	1006	1011	1014	1017	1021	1024	1033
DEC	993	999	1004	1009	1013	1016	1020	1022	1029

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1957-1976

JANUARY

AREA 0011 PDRTO ALEGRE
30.65 49.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.0	.5	1.0	.0	.0	.0	.0	4.6	2.9	2.1	.0	.0	.8	.0	88.6
NE	1.9	2.2	.0	.0	.0	.0	.0	4.1	1.2	2.2	.4	.0	.8	.0	91.7
E	1.2	.4	1.0	.0	.0	.0	.0	2.3	1.4	.6	.4	.0	.0	.0	95.3
SE	1.3	2.2	1.3	.0	.0	.0	.0	3.1	1.8	.4	.0	.0	.1	.0	92.5
S	1.1	2.6	2.3	.0	.0	.0	.0	6.0	2.0	.3	.0	.0	.3	.0	91.2
SW	3.3	.6	1.8	.0	.0	.0	.0	3.0	1.3	1.2	.6	.0	.6	.0	91.3
W	.0	.0	.0	.0	.0	.0	.0	.0	1.8	2.2	1.8	.0	.0	.0	93.2
NW	1.3	1.3	.0	.0	.0	.0	.0	2.7	4.3	3.0	.0	.0	.0	.0	88.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6	3.6	.0	.0	.0	.0	.0	7.1	3.6	3.6	.0	.0	3.6	.0	82.1
TOT PCT	1.8	1.6	.9	.0	.0	.0	.0	4.2	1.8	1.7	.3	.0	.5	.0	91.6
TOT OBS:	1792														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0600	3.2	2.3	.6	.0	.0	.0	.0	6.0	1.3	2.3	.2	.0	.4	.0	88.1
0600	1.3	2.0	1.3	.0	.0	.0	.0	4.8	1.8	2.4	.2	.0	.0	.0	91.0
1815	1.3	1.3	1.0	.0	.0	.0	.0	3.8	2.3	.0	.6	.0	1.0	.0	92.1
1821	1.2	.7	.7	.0	.0	.0	.0	2.6	1.2	.2	.0	.0	.3	.0	93.6
TOT PCT	1.8	1.6	.9	.0	.0	.0	.0	4.3	1.7	1.6	.3	.0	.5	.0	91.7
TOT OBS:	1633														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-9	10-19	20-29	30-39	40-49	50+				00	03	06	09	12	15	18	21
N	.6	4.4	3.2	1.0	.1	.0	11.2	12.2	9.4	10.8	12.0	7.2	13.6	12.3	9.5	10.4	
NE	1.0	10.2	11.2	2.2	.1	.0	29.7	12.9	20.7	20.1	22.0	20.0	29.0	27.4	28.6	23.0	
E	.9	7.4	7.3	.9	.0	.0	18.3	11.3	19.7	19.8	14.3	19.4	13.9	15.0	16.9	17.4	
SE	1.0	6.4	6.0	.9	.1	.0	14.4	11.4	14.9	15.4	12.0	18.9	13.9	16.1	13.5	13.9	
S	.7	4.6	4.6	.9	.0	.0	10.8	11.9	11.9	11.8	10.3	8.9	10.1	9.0	11.7	6.3	
SW	.3	2.8	3.2	1.2	.0	.0	7.7	13.2	4.6	3.6	7.9	6.7	7.3	8.6	9.3	22.9	
W	.3	1.3	1.3	.4	.1	.0	3.2	12.7	2.1	2.3	3.4	6.1	3.7	4.4	3.2	4.2	
NW	.4	2.1	1.4	.3	.0	.0	4.2	10.6	3.0	3.4	4.2	.6	3.6	3.8	3.4	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.2						2.2	.0	1.7	1.9	2.8	2.2	2.4	2.7	1.7	.0	
TOT OBS	309	2041	3046	321	27	1	6734	11.9	1224	827	1244	43	1199	979	1180	36	
TOT PCT	7.8	39.2	43.2	7.7	.3	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 4A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-9	10-19	20-29	30-40				00	03	06	09	12	15	18	21
N	2.0	3.7	2.7	.2	.0	11.2	12.2	10.0	11.8	13.1	9.5		
NE	4.3	10.3	9.2	.4	.0	29.7	12.9	20.1	21.9	28.6	23.0		
E	3.7	9.2	3.3	.1	.0	18.3	11.3	19.7	14.7	16.4	16.9		
SE	3.3	7.9	2.7	.3	.0	14.4	11.4	13.1	13.0	14.0	13.5		
S	2.4	3.8	2.3	.3	.0	10.8	11.9	11.7	10.3	9.8	11.3		
SW	1.0	3.6	2.1	.4	.0	7.7	13.2	6.2	7.9	7.9	9.9		
W	.8	1.3	.8	.2	.0	4.2	12.7	2.3	3.5	4.0	3.2		
NW	1.3	2.1	.7	.1	.0	4.2	10.6	3.1	4.1	3.7	3.3		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	2.2					2.2	.0	1.8	2.8	2.3	1.6		
TOT OBS	1914	3326	1949	139	6	6734	11.9	2031	1289	2178	1216		
TOT PCT	22.8	32.4	23.0	2.1	.1	100.0		100.0	100.0	100.0	100.0		

JANUARY

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1857-1976

AREA 0011 PORTO ALEGRE
30.6S 49.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-39	34-47				
0000Z	1.8	4.4	39.6	43.5	8.4	.1	0	12.0	100.0	2031
0600Z	2.8	6.1	39.9	43.9	6.9	.4	.0	11.6	100.0	1289
1200Z	2.5	5.8	36.3	45.1	7.7	.5	.0	11.9	100.0	2179
1800Z	1.6	4.9	39.5	46.3	7.9	.2	.0	12.0	100.0	1216
TOT	148	388	2641	3040	321	22	1	11.9		6734
PCT	2.2	5.8	39.2	45.2	7.7	.3	0	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & 8	TOTAL CLOUD OBS	MEAN COVER
N	3.6	1.8	2.4	1.8	3.5	3.5
NE	12.1	7.0	7.8	3.4	3.6	3.6
E	3.0	3.7	3.1	1.6	3.8	3.8
SE	3.6	3.7	3.8	1.3	4.1	4.1
S	4.2	3.2	4.1	1.9	4.1	4.1
SW	3.1	2.4	3.1	1.4	4.0	4.0
W	1.3	.8	.7	.4	3.3	3.3
NW	2.0	.6	1.2	.3	3.3	3.3
VAR	.0	.0	.0	.0	.0	.0
CALM	1.1	.2	.4	.2	2.6	2.6
TOT OBS	498	301	348	161	1308	3.7
TOT PCT	38.1	23.0	26.6	12.3	100.0	

TABLE 6

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

WIND DIR	000	150	300	600	1000	2000	3900	5000	6900	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.0	.7	.5	.4	.4	.2	.1	.1	9.1	
NE	.2	.0	.3	1.2	1.9	1.5	.7	.8	.0	.3	25.4	
E	.1	.1	.1	.1	.6	1.1	.4	.2	.1	.0	10.8	
SE	.0	.0	.1	.6	.8	1.1	.6	.5	.0	.0	6.7	
S	.2	.0	.1	1.1	1.8	.3	.6	.1	.1	.0	9.2	
SW	.0	.1	.0	.7	1.3	.2	.9	.1	.0	.0	6.8	
W	.0	.0	.1	.2	.2	.2	.1	.0	.1	.0	2.4	
NW	.0	.0	.0	.1	.1	.2	.3	.0	.0	.0	3.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.1	.0	.2	.2	.0	.0	.1	.0	.0	1.5	
TOT OBS	6	2	9	62	97	63	48	23	4	3	385	1308
TOT PCT	.5	.2	.7	4.7	7.4	5.0	3.7	1.9	.3	.4	75.3	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>8	>6	>4	>3	>1/2	>1/4	>8000
>4000	.3	.7	.7	.7	.7	.7	.7	.7
>3000	1.9	2.6	2.6	2.6	2.6	2.6	2.6	2.6
>2000	4.7	6.3	6.4	6.4	6.4	6.4	6.4	6.4
>1000	8.3	10.8	11.2	11.2	11.3	11.3	11.3	11.3
>600	13.9	17.8	18.6	18.6	18.7	18.7	18.7	18.7
>400	17.1	22.3	23.3	23.3	23.3	23.4	23.4	23.4
>300	17.7	22.9	23.0	23.9	24.0	24.1	24.1	24.1
>200	17.9	23.0	24.1	24.1	24.2	24.2	24.2	24.2
>0	17.8	23.2	24.3	24.3	24.6	24.7	24.7	24.7
TOTAL	236	308	326	326	327	328	328	328

TOTAL NUMBER OF OBS: 1329

PCT FREQ NH <5/8: 75.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	D8SCD	TOTAL OBS
18.0	16.2	18.9	15.2	8.4	5.9	5.4	5.4	7.9	.2	1493

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1957-1976

JANUARY

AREA 0011 PORTO ALEGRE
30.85 49.0W

TABLE 6

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT S	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
2<5	PCP	.1	.3	.2	.1	.1	.1	.0	.0	.0	.0	.0	
	NO PCP	.2	.6	.2	.1	.3	.1	.0	.1	.0	.1	1.9	
	TOT S	.3	.9	.3	.1	.4	.3	.0	.1	.0	.1	2.9	
5<10	PCP	.3	.6	.1	.4	.4	.3	.0	.1	.0	.1	2.2	
	NO PCP	1.9	6.0	2.3	2.0	1.3	1.3	.8	.7	.0	.1	16.3	
	TOT S	2.2	6.6	2.6	2.4	1.9	1.6	.8	.8	.0	.1	18.7	
10+	PCP	.1	.4	.1	.2	.3	.1	.0	.0	.0	.0	1.2	
	NO PCP	7.9	23.2	11.4	10.8	9.8	7.3	2.6	3.3	.0	1.3	77.9	
	TOT S	8.0	23.6	11.9	10.7	10.1	7.6	2.6	3.3	.0	1.3	78.7	
TOT OBS													1789
TOT PCT													10.6 31.0 14.3 13.3 12.3 9.4 3.1 4.2 .0 1.6 100.0

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.1	.3	.3	.0	.1	.0	.0	.1	.0	.0	.0	1.0
	11-21	.2	.3	.1	.0	.1	.1	.0	.0	.0	.0	.0	.7
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2
	TOT S	.3	.7	.4	.1	.3	.2	.0	.1	.0	.0	.1	2.1
5<10	0-3	.0	.2	.1	.1	.1	.1	.0	.0	.0	.2	.8	
	4-10	.7	1.3	.7	.6	.4	.4	.3	.3	.0	.0	3.3	
	11-21	1.0	2.6	1.1	1.0	.6	.4	.1	.3	.0	.0	7.1	
	22+	.1	.7	.3	.3	.2	.2	.1	.0	.0	.0	2.0	
	TOT S	1.8	5.3	2.2	1.9	1.3	1.2	.4	.7	.0	.2	13.2	
10+	0-3	.5	.8	.6	.7	.5	.3	.2	.4	.0	1.5	3.5	
	4-10	3.3	8.2	6.7	5.1	3.8	2.7	1.0	2.0	.0	.0	22.9	
	11-21	4.2	14.3	3.4	3.0	4.9	2.9	1.1	.9	.0	.0	36.7	
	22+	.6	1.6	.4	.3	.7	1.0	.3	.1	.0	.0	3.1	
	TOT S	8.6	24.8	13.1	11.2	9.8	7.0	2.6	3.4	.0	1.5	62.2	
TOT OBS													3613
TOT PCT													11.0 30.9 13.8 13.3 11.5 8.4 2.9 4.2 .0 1.8 100.0

JANUARY

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1857-1976

AREA 0011 PORTO ALEGRE
30.85 49.0M

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/MH >4/8) AND OCCURRENCE OF MH <3/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	MH <3/8 ANY HGT	TOTAL OBS
0000	.3	.0	1.1	4.2	10.1	4.8	4.2	1.7	.0	.3	26.7	75.3	356
0600	.3	.0	.3	4.3	6.8	3.4	2.0	1.7	.3	.6	19.9	80.1	352
1200	.6	.6	.9	4.1	5.8	5.2	4.9	2.3	.3	.3	24.9	75.1	345
1800	.6	.0	.3	4.8	5.4	3.1	3.4	1.7	.6	.3	22.0	76.0	354
TOT	6	2	9	62	99	65	31	26	4	5	329	1078	1407
PCT	.4	.1	.6	4.4	7.0	4.0	3.6	1.8	.3	.4	23.4	76.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (MH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
0000	.1	.0	.3	1.8	17.2	80.3	1000
0600	.1	.1	.1	3.3	15.2	81.0	781
1200	.1	.1	.3	1.9	15.3	82.3	1064
1800	.0	.3	.1	1.3	12.3	85.7	780
TOT	3	4	10	73	588	3005	3635
PCT	.1	.1	.3	2.1	15.3	82.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	MH <3/8 AND 5+	TOTAL OBS
0000	.3	1.8	7.6	21.3	70.9	333
0600	.3	.6	7.2	14.7	76.1	333
1200	.6	2.2	7.2	19.9	72.9	321
1800	.6	1.2	7.3	15.3	77.2	342
TOT	6	19	98	237	994	1329
PCT	.3	1.4	7.4	17.8	74.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
85/89	.0	.0	.1	.2	.0	.1	.0	.0	3	.4
80/84	.0	.0	.0	.3	.7	2.3	2.1	.7	87	6.4
75/79	.0	.0	.1	1.0	3.7	10.1	15.3	8.8	336	39.3
70/74	.0	.0	.1	3.0	7.0	12.9	12.7	11.9	630	47.6
65/69	.0	.0	.2	.4	1.7	1.9	1.0	.8	82	6.0
60/64	.0	.0	.0	.1	.0	.1	.0	.0	4	.3
TOTAL	0	0	7	70	179	379	428	304	1363	100.0
PCT	.0	.0	.3	3.1	13.1	27.6	31.4	22.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
85/89	.1	.1	.0	.1	.0	.1	.0	.0	.0	.0
80/84	1.0	2.7	.3	.4	.2	.3	.3	.4	.0	.1
75/79	3.8	14.4	3.3	2.2	4.1	3.1	1.1	1.3	.0	.3
70/74	3.7	12.9	8.6	7.3	6.7	4.8	1.2	1.8	.0	.7
65/69	.2	.4	.3	.3	2.3	1.4	.2	.4	.0	.0
60/64	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1
TOTAL	10.8	30.3	14.8	11.8	13.3	9.9	3.1	4.1	.0	1.4

TABLE 15

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

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	88	81	78	73	68	63	34	73.4	2045
0600	82	79	77	73	67	63	33	72.4	1289
1200	91	85	81	78	69	66	62	76.9	2129
1800	90	83	82	76	70	66	65	76.0	1172
TOT	91	83	80	74	68	65	33	74.1	6635

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	3.7	10.3	26.0	32.3	27.6	81	381		
0600	.0	3.3	10.8	23.4	32.2	27.1	81	343		
1200	.0	6.1	14.0	27.6	31.2	20.1	79	339		
1800	.0	9.7	13.4	31.3	31.0	12.3	77	319		
TOT	0	74	180	383	448	310	80	1402		

JANUARY

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1957-1976

AREA 0011 PORTO ALEGRE
30.6S 49.0W

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	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	M FOG	HD FOG
17/.9	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
14/1.5	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
11/1	.0	.0	.0	.1	.0	.3	.0	.1	7	.0	.4
9/1.5	.0	.0	.0	.1	.2	.3	.2	.0	13	.0	.8
7/8	.0	.0	.0	.1	.6	.6	.1	.0	24	.0	1.4
6	.0	.0	.0	.2	.5	.4	.0	.0	19	.0	1.1
5	.0	.0	.2	.7	1.0	.3	.1	.0	37	.0	2.2
4	.0	.1	.5	1.0	2.1	.7	.0	.0	74	.0	4.4
3	.0	.0	.2	1.3	2.3	.4	.0	.0	73	.0	4.3
2	.0	.2	.9	3.3	3.3	.3	.0	.0	168	.1	10.0
1	.1	.1	1.9	6.1	3.9	.1	.0	.0	196	.0	11.7
0	.0	.2	3.2	8.8	3.8	.2	.0	.0	271	.1	16.1
-1	.0	.2	3.6	7.7	2.0	.1	.0	.0	227	.0	13.6
-2	.0	.2	4.3	7.1	.5	.0	.0	.0	203	.0	12.1
-3	.1	.5	3.6	4.2	.7	.0	.0	.0	143	.0	8.6
-4	0	.7	2.8	1.7	.1	.0	.0	.0	88	.0	5.3
-5	.1	.8	2.2	.7	.0	.0	.0	.0	84	.0	3.8
-6	.3	.4	1.1	.5	.0	.0	.0	.0	34	.0	2.0
-7/-8	.0	.2	.4	.2	.0	.0	.0	.0	13	.0	.9
-9/-10	.0	.4	.1	.1	.0	.0	.0	.0	8	.0	.5
-11/-13	.1	.2	.0	.0	.0	.0	.0	.0	4	.0	.2
TOTAL	6	70	419	769	338	8	6	1	1672	3	1069
PCT	.4	4.2	29.1	48.0	20.2	3.8	.4	.1	100.0	.2	99.9

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

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

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
41	.4	.8	1.7	.0	.0	.0	1.0	.8	7.8	2.0	.0	.0	.0	1.1
1-2	.0	2.3	1.7	.0	.0	.0	4.0	.2	7.0	2.3	.0	.0	.0	9.6
3-4	.0	.1	4.7	.3	.0	.0	4.3	.0	3.2	4.8	.4	.0	.0	8.4
5-6	.0	.2	2.4	.0	.0	.0	2.8	.0	.0	4.9	.6	.0	.0	5.3
7	.0	.1	.3	.0	.0	.0	.9	.0	.0	3.3	.4	.0	.0	3.8
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.4	.2	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.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	.4	3.6	8.8	.3	.0	.0	12.9	.8	10.8	16.0	2.4	.0	.0	30.1

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
41	.3	.4	1.3	.0	.0	.0	.9	.1	2.0	.0	.0	.0	.0	.1
1-2	.0	3.6	1.5	.0	.0	.0	4.9	1.0	2.7	.8	.0	.0	.0	4.3
3-4	.0	1.6	2.0	.0	.0	.0	3.6	.0	1.0	1.4	.0	.0	.0	3.6
5-6	.0	.0	.4	.2	.0	.0	.8	.0	.0	2.2	.0	.0	.0	2.2
7	.0	.0	.7	.0	.0	.0	.7	.0	.2	1.0	.2	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.6	.0	.0	1.2
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	3.6	4.7	.2	.0	.0	10.9	1.1	4.9	6.6	.8	.0	.0	13.0

PERIOD: (OVER-ALL) 1963-1976

JANUARY
TABLE 18 (CON'T)

AREA 0011 PORTO ALEGRE
30.68 49.0W

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

MGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.5	.0	.0	.0	.0	.9	.0	.8	.0	.0	.0	.0	.0
1-2	.0	2.3	1.7	.0	.0	.0	4.1	.2	2.3	.2	.0	.0	.0	2.7
3-4	.0	.3	3.5	.4	.0	.0	4.2	.0	1.1	1.4	.6	.0	.0	3.1
5-6	.0	.8	1.9	.2	.1	.0	3.0	.0	.2	2.6	.4	.0	.0	3.3
7	.0	.3	.8	.4	.0	.0	1.6	.0	.8	.2	.2	.0	.0	.5
8-9	.0	.0	.3	.4	.0	.0	.7	.0	.0	.2	.6	.0	.0	.8
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	4.4	8.3	1.4	.1	.0	14.5	.2	3.7	4.8	1.8	.0	.0	10.6

MGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.2	.0	.0	.0	.0	.4	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	1.1	.3	.0	.0	.0	1.6	.0	.2	.3	.0	.0	.0	1.0	
3-4	.0	.4	.2	.0	.0	.0	.6	.0	.3	.2	.0	.0	.0	.5	
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.2	.0	.0	.4	
7	.0	.0	.0	.1	.0	.0	.1	.0	.2	.0	.0	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	1.8	.9	.1	.0	.0	3.0	.8	.8	1.0	.7	.0	.0	2.6 97.6	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	0.8	2.3	.0	.0	.0	.0	9.3	089
1-2	1.7	21.1	8.7	.6	.0	.0	31.6	
3-4	.0	7.9	18.2	1.7	.0	.0	27.9	
5-6	.0	1.4	14.7	1.6	.2	.0	17.5	
7	.2	.8	6.4	1.4	.0	.0	8.7	
8-9	.0	.8	1.2	1.7	.0	.0	3.9	
10-11	.0	.0	.4	.2	.0	.0	.6	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.4	.0	.0	.4	
20-22	.0	.0	.0	.6	.0	.0	.6	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.7	34.3	49.6	7.2	.2	.0	100.0	316

PERIOD: (OVER-ALL) 1949-1976

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 MGT	
46	1.3	9.9	13.9	7.6	1.9	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	392	3
6-7	.1	1.8	9.2	10.7	6.6	1.3	.3	.2	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	346	3
8-9	.0	.2	2.0	3.2	3.0	2.7	.6	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	134	6
10-11	.0	.6	.6	.8	.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	5
12-13	.0	.0	.4	.2	.1	.3	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	7
>13	.0	.0	.0	.0	.2	.0	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	10
IMDET	2.4	3.6	4.2	3.1	1.0	1.0	.2	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	173	4
TOTAL	43	180	341	287	169	64	21	9	7	0	3	1	0	0	0	0	0	0	0	0	1129	4
PCT	3.8	16.0	30.3	25.3	15.0	5.7	1.9	.8	.6	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1864-1976

FEBRUARY

APEA 0011 PORTO ALEGRE
30.6S 49.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE MAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.0	.7	1.4	.0	.0	.0	.0	3.0	.8	3.1	.0	.0	.8	.0	88.3
NE	2.6	.8	1.9	.0	.0	.0	.0	3.3	2.1	3.9	1.0	.0	.4	.0	88.2
E	3.6	1.4	1.1	.0	.0	.0	.0	6.3	3.2	1.4	.8	.0	.0	.0	88.7
SE	2.8	2.1	1.3	.0	.0	.0	.0	3.8	2.3	1.3	.1	.0	.4	.0	89.7
S	2.7	2.7	1.1	.0	.0	.0	.0	6.4	.0	1.8	.0	.0	.4	.0	91.7
SW	3.4	3.6	2.8	.0	.0	.0	.0	9.7	3.2	1.3	.0	.0	.2	.0	85.3
W	4.1	.0	1.3	.0	.0	.0	.0	3.6	3.4	1.3	1.3	.0	1.1	.0	88.4
NW	3.3	.0	.9	.0	.0	.0	.0	6.1	.9	.9	.0	.0	1.8	.0	90.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.0	.0	.0	.0	.0	.0	.0	4.0	.0	12.0	.0	.0	16.0	.0	88.0
TOT PCT	3.0	1.4	1.6	.0	.0	.0	.0	6.0	2.0	2.8	.3	.0	.6	.0	88.3
TOT OBS:	1869														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE MAZE	SPRAY BLWG DUST	NO SIG WEA
0800	4.0	1.7	.0	.0	.0	.0	.0	6.3	1.9	4.8	.8	.0	.6	.0	86.6
0809	3.3	1.3	2.2	.0	.0	.0	.0	8.9	2.9	6.0	.7	.0	.4	.0	83.8
1219	2.3	.9	1.7	.0	.0	.0	.0	4.9	2.4	.4	.4	.0	.9	.0	91.0
1821	2.4	1.6	1.6	.0	.0	.0	.0	3.6	1.1	.2	.2	.0	.4	.0	92.7
TOT PCT	3.0	1.4	1.5	.0	.0	.0	.0	3.9	2.1	2.8	.3	.0	.6	.0	88.6
TOT OBS:	1910														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FRZG	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	.7	4.7	1.5	.0	.0		11.1	12.8	8.3	10.1	13.3	10.6	13.9	11.9	8.8	10.8	
NE	1.0	10.7	14.4	2.7	.0	.0		28.8	12.8	27.4	31.3	30.9	29.8	28.3	28.1	28.4	25.3	
E	.8	8.3	7.4	.9	.1	.0		17.6	11.2	20.9	19.3	15.9	21.8	16.0	16.0	17.3	16.7	
SE	.8	7.2	5.0	1.0	.0	.0		14.9	11.2	17.8	16.3	13.6	3.9	12.7	14.9	14.8	9.8	
S	.8	4.7	3.9	.9	.1	.0		10.4	11.7	11.8	8.8	9.0	13.3	9.8	10.2	12.0	14.7	
SW	.6	3.4	3.2	1.0	.1	.0		8.3	12.9	7.4	6.3	7.2	17.6	8.6	8.8	10.4	9.8	
W	.3	1.3	1.2	.4	.0	.0		3.4	12.3	2.4	2.8	2.9	.0	4.4	4.2	4.0	2.9	
NW	.3	1.8	1.2	.2	.0	.0		3.3	10.9	1.9	2.3	4.3	1.1	4.7	3.2	2.8	.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	7.8							2.0	.0	1.8	2.6	2.8	.0	1.3	2.3	1.2	.0	
TOT OBS	490	2847	2841	378	28	3	6789		11.8	1194	844	1241	47	1216	984	1212	51	
TOT PCT	7.2	41.9	41.8	6.3	.4	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FRZG	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	03	09	12	18	21
N	2.3	5.3	3.3	.3	.0	11.1	12.8	9.0	13.4	13.0	8.9	
NE	4.6	15.8	7.8	.5	.0	28.8	12.8	29.0	30.8	27.4	28.8	
E	4.0	10.4	3.0	.3	.0	17.6	11.2	20.3	16.1	16.0	17.3	
SE	3.4	8.6	2.3	.2	.0	14.9	11.2	17.2	13.4	13.7	14.6	
S	2.3	3.6	2.0	.2	.0	10.4	11.7	10.3	9.2	10.0	12.1	
SW	1.7	4.2	2.0	.4	.1	8.3	12.9	7.1	7.6	8.7	10.4	
W	.9	1.7	.4	.2	.0	3.4	12.3	2.6	2.8	4.3	3.9	
NW	1.1	1.7	.6	.1	.0	3.3	10.9	2.1	4.2	4.9	2.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.0					2.0	.0	2.2	2.7	2.0	1.2	
TOT OBS	1927	3628	1477	148	9	6789		2038	1288	2200	1263	
TOT PCT	32.3	53.4	21.8	2.2	.1	100.0		100.0	100.0	100.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1864-1976

AREA 0011 PORTO ALEGRE
30.65 49.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (ORT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00Z03	2.2	4.6	41.7	42.7	8.3	.4	.1	11.9	100.0	2028
06Z09	2.7	5.4	43.1	39.9	8.3	.3	.1	11.7	100.0	1388
12Z15	2.0	5.8	42.0	40.4	9.4	.4	.1	11.8	100.0	2300
18Z21	1.2	4.9	41.0	45.0	7.6	.3	.0	11.9	100.0	1263
TOT	137	353	2847	2641	578	28	5	11.8		6789
PCT	2.0	5.2	41.9	41.8	8.5	.4	.1	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	10.6	5.9	10.1	4.2	4.1	4.1
E	3.5	3.3	5.1	2.7	4.2	4.2
SE	3.5	3.3	3.9	1.6	4.1	4.1
S	3.4	2.9	3.3	1.7	3.8	3.8
SW	2.8	1.6	2.3	1.7	4.3	4.3
W	1.6	.3	.9	.3	3.5	3.5
NW	1.1	.9	.7	.3	3.6	3.6
VAR	.0	.0	.0	.0	.0	.0
CALM	.9	.1	.1	.1	1.8	1.8
TOT OBS	498	270	414	203	1383	4.0
TOT PCT	35.9	19.5	29.9	14.7	100.0	

TABLE 6

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

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.1	.1	.6	1.1	.6	.4	.1	.1	.3	7.9	
NE	.1	.6	.3	1.5	3.0	1.6	1.9	.5	.3	.1	22.1	
E	.0	.0	.4	.7	2.0	1.0	.7	.3	.1	.1	11.4	
SE	.2	.0	.8	.9	.6	1.1	1.0	.0	.0	.1	8.7	
S	.1	.0	.0	.5	1.2	.8	.5	.1	.0	.0	9.8	
SW	.2	.0	.9	.3	1.6	.5	.9	.0	.0	.1	5.4	
W	.1	.0	.1	.3	.4	.2	.1	.0	.0	.0	2.2	
NW	.0	.0	.9	.9	.1	.2	.2	.2	.0	.0	1.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	1.2	
TOT OBS	7	1	17	69	138	84	64	16	6	11	970	1383
TOT PCT	.5	.1	1.2	5.0	10.0	6.1	4.6	1.2	.4	.8	70.1	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >3	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >8300	.9	1.1	1.2	1.2	1.2	1.2	1.2	1.2
= OR >5000	1.3	2.0	2.4	2.4	2.4	2.4	2.4	2.4
= OR >3500	4.6	6.4	6.9	6.9	6.9	6.9	6.9	6.9
= OR >2000	8.9	12.0	12.7	12.7	12.7	12.7	12.7	12.7
= OR >1000	16.2	21.4	22.4	22.4	22.5	22.5	22.6	22.6
= OR >400	19.0	25.9	27.4	27.4	27.3	27.3	27.6	27.6
= OR >300	19.6	26.9	28.6	28.6	28.6	28.6	28.7	28.7
= OR >150	19.7	27.0	28.6	28.6	28.7	28.7	28.8	28.8
= OR > 0	19.9	27.4	29.1	29.1	29.2	29.2	29.3	29.3
TOTAL	278	383	408	408	409	409	410	410

TOTAL NUMBER OF OBS: 1400

PCT FREQ NH <5/8: 70.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.4	16.5	17.2	13.6	8.3	7.2	6.7	6.6	8.9	.3	147

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1864-1976

FEBRUARY

AREA 0011 PORTO ALEGRE
30.03 49.0W

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
2<5	PCP	.1	.4	.3	.1	.0	.1	.1	.0	.0	.0	1.2	
	NO PCP	.2	.3	.4	.4	.1	.1	.1	.0	.0	.0	1.6	
	TOT %	.3	.7	.7	.5	.1	.2	.1	.1	.0	.0	2.8	
5<10	PCP	.3	.6	.3	.3	.3	.3	.1	.1	.0	.1	2.4	
	NO PCP	2.1	6.3	2.6	1.7	1.9	1.5	.8	1.0	.0	.3	18.1	
	TOT %	2.4	6.9	2.9	2.0	2.4	1.8	1.0	1.0	.0	.4	20.7	
10+	PCP	.1	.6	.3	.2	.3	.4	.0	.1	.0	.0	2.1	
	NO PCP	8.0	23.2	11.7	9.3	9.7	6.3	2.3	1.9	.0	.8	73.6	
	TOT %	8.0	23.2	12.0	9.7	9.9	6.7	2.3	2.0	.0	.8	75.7	
TOT OBS													1068
TOT PCT													11.7 31.2 19.7 12.9 12.9 8.7 9.6 3.1 .0 1.3 100.0

TABLE 9

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

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.1	.4
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.2	.2	.1	.0	.1	.0	.1	.0	.0	.9	
	11-21	.1	.3	.2	.2	.1	.1	.1	.0	.0	.0	.9	
	22+	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.3	.6	.4	.4	.1	.2	.1	.1	.0	.0	2.4	
5<10	0-3	.1	.2	.1	.2	.0	.1	.1	.0	.0	.3	1.0	
	4-10	.8	1.6	.8	.6	.7	.4	.3	.4	.0	.0	5.7	
	11-21	.9	2.6	1.3	1.0	.6	.6	.2	.3	.0	.0	7.3	
	22+	.2	.6	.1	.3	.2	.3	.0	.1	.0	.0	1.8	
	TOT %	2.0	5.0	2.3	2.0	1.6	1.4	.6	.8	.0	.3	16.0	
10+	0-3	.6	.7	.6	.3	.3	.4	.1	.1	.0	1.0	4.3	
	4-10	3.6	9.7	7.4	5.4	3.7	2.6	1.1	1.6	.0	.0	18.4	
	11-21	4.2	12.8	3.8	4.0	3.9	3.0	1.2	.9	.0	.0	39.9	
	22+	.9	1.6	.2	.4	.6	.9	.3	.1	.0	.0	5.0	
	TOT %	9.3	24.9	14.1	10.3	8.9	5.9	2.7	2.7	.0	1.0	80.9	
TOT OBS													3758
TOT PCT													11.7 30.7 17.0 12.9 10.6 8.7 3.3 3.6 .0 1.4 100.0

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1864-1976

FEBRUARY

AREA 0011 PORTO ALEGRE
30.08 49.0M

TABLE 10

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

HOURL (GMT)	000	150	300	600	1000	2000	3000	5000	6500	8000+	TOTAL	NH <5/8 ANY MGT	TOTAL OBS
0000	.3	.3	1.7	5.1	8.7	5.4	4.2	.8	.0	1.7	28.2	71.8	395
0600	1.1	.0	1.4	5.9	7.3	5.0	4.3	.8	.8	.6	27.3	72.3	357
1200	.3	.0	.8	4.9	11.3	8.3	3.6	1.0	.8	.5	31.3	68.3	390
1800	.3	.0	.8	3.2	10.1	3.7	5.0	1.6	.0	.3	25.6	74.4	373
TOT	7	1	17	70	139	84	66	16	6	11	417	1000	1477
PCT	.3	.1	1.2	4.7	9.4	3.7	4.3	1.1	.4	.7	28.2	71.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (MH) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000	.2	.2	.3	1.8	17.4	79.9	1089
0600	.4	.0	.3	3.0	16.0	80.3	793
1200	.1	.3	.6	2.8	14.9	81.4	1138
1800	.0	.1	.1	1.3	13.3	82.3	781
TOT	6	6	13	90	607	3077	3801
PCT	.2	.2	.4	2.4	16.0	81.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (MH) AND/OR CEILING MGT (FEET/MH >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 3+	NH <5/8 AND 3+	TOTAL OBS
0000	.3	2.1	9.0	20.3	70.7	395
0600	1.2	3.0	10.7	18.3	70.8	354
1200	.3	1.3	9.2	23.3	68.3	371
1800	.3	1.1	6.4	21.2	72.3	358
TOT	7	26	123	300	977	1400
PCT	.5	1.9	8.8	21.4	69.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
85/89	.0	.0	.0	.2	.3	.9	.1	.0	13	1.1
82/84	.0	.0	.1	.5	1.3	3.4	3.0	.9	125	5.3
78/79	.0	.0	.2	1.8	3.3	12.2	19.2	10.7	699	49.4
70/74	.0	.0	.2	2.9	9.1	9.8	9.4	6.4	329	37.4
63/69	.0	.0	.0	.4	.8	.6	.8	.4	40	2.8
60/64	.0	.0	.0	.1	.1	.1	.1	.1	3	.4
TOTAL	0	0	7	77	240	374	461	239	1414	100.0
PCT	.0	.0	.5	5.4	17.0	26.4	32.6	18.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
85/89	.2	.6	.0	.0	.1	.1	.0	.0	.0	.0
82/84	1.3	3.6	.6	.7	.9	.8	.4	.4	.0	.1
78/79	7.4	18.3	8.0	4.3	4.0	3.0	1.6	1.3	.0	.8
70/74	2.3	7.8	7.3	7.2	6.9	3.4	1.0	.8	.0	.6
63/69	.1	.2	.4	.3	.0	.3	.1	.1	.0	.0
60/64	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0
TOTAL	11.9	30.6	16.4	12.9	13.2	7.9	3.1	2.6	.0	1.6

TABLE 15

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

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	88	81	79	75	69	66	62	74.4	2014
0600	89	79	78	74	69	66	61	73.8	1277
1200	91	89	82	76	70	67	60	73.9	2118
1800	91	86	83	77	71	68	64	77.0	1197
TOT	91	84	81	75	70	66	60	75.2	6606

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	5.8	14.9	28.2	31.6	21.8	7.9	7.9	377	
0600	.0	2.8	12.8	21.7	23.6	29.2	8.2	8.2	360	
1200	.0	7.0	18.6	28.1	31.7	14.6	7.8	371		
1800	.0	8.3	20.9	32.2	31.2	6.3	7.3	339		
TOT	0	23	66.2	93.2	97.4	62.3	79	1447		

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1864-1976

FEBRUARY

AREA 0011 PORTO ALEGRE
30.6S 49.0W

TABLE 17

PCT FRQ 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	43 48	45 52	47 56	49 60	51 64	53 68	55 72	TOT	N FOG	WD FOG
20/22	.0	.0	.0	.0	.1	.0	.3	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.0	.1	.1	.2	.2	9	.0	.3
9/10	.0	.0	.0	.0	.1	.1	.4	.0	.0	9	.0	.5
7/8	.0	.0	.0	.1	.2	.1	.2	.3	.0	19	.1	1.1
6	.0	.0	.0	.0	.3	.4	.3	.2	.0	19	.0	1.1
5	.0	.0	.0	.1	.2	.6	.9	.2	.0	32	.0	1.9
4	.0	.0	.0	.1	.6	1.4	.7	.0	.0	48	.0	2.8
3	.0	.0	.0	.1	1.8	2.6	.8	.0	.0	90	.1	5.2
2	.0	.0	.1	.3	3.8	4.9	.6	.0	.0	136	.1	9.1
1	.0	.0	.0	.4	4.2	5.9	.5	.0	.0	181	.1	10.6
0	.0	.0	.0	1.3	8.7	9.2	.4	.0	.0	286	.1	16.7
-1	.0	.0	.1	1.1	9.2	4.0	.1	.0	.0	246	.1	14.4
-2	.0	.1	.1	2.3	8.0	1.9	.0	.0	.0	203	.0	11.9
-3	.0	.1	.1	2.1	6.2	.4	.0	.0	.0	131	.0	8.9
-4	.0	.0	.4	2.3	2.9	.9	.0	.0	.0	103	.0	6.0
-5	.0	.0	.3	1.9	2.0	.1	.0	.0	.0	73	.0	4.3
-6	.0	.1	.2	.6	.9	.0	.0	.0	.0	32	.0	1.9
-7/-8	.0	.0	.4	1.1	.1	.1	.0	.0	.0	29	.0	1.7
-9/-10	.0	.2	.4	.1	.1	.0	.0	.0	.0	13	.0	.8
-11/-13	.0	.0	.1	.1	.0	.0	.0	.0	.0	3	.0	.2
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	7	33	84	141	149	47	18	3	1704	.4	100.0
PCT	.1	.4	2.1	14.1	49.4	27.8	4.9	1.1	.2	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

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

HGT	N						PCT	NE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.1	.5	.0	.0	.0	.0	.6	.8	1.8	.0	.0	.0	.0	.0	1.8
1-2	.2	2.1	.9	.0	.0	.0	3.2	.2	3.4	3.0	.0	.0	.0	.0	6.3
3-4	.0	1.1	2.4	.1	.0	.0	3.8	.0	2.2	3.9	.3	.0	.0	.0	6.7
5-6	.0	.3	1.6	.2	.0	.0	2.0	.0	1.1	3.3	.9	.0	.0	.0	5.3
7	.0	.0	.5	.7	.0	.0	1.2	.0	.2	3.1	1.8	.0	.0	.0	5.1
8-9	.0	.0	.3	.6	.0	.0	.9	.0	.3	.8	.6	.0	.0	.0	1.3
10-11	.0	.0	.0	.6	.0	.0	.6	.0	.0	.3	.8	.0	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
57-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.0	3.9	2.2	.0	.0	12.4	.9	9.8	16.6	3.1	.0	.0	.0	32.4

HGT	E						PCT	SE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.3	.5	.0	.0	.0	.0	.7	.3	.5	.0	.0	.0	.0	.0	.6
1-2	.3	4.1	1.6	.0	.0	.0	6.1	.0	1.7	.7	.0	.0	.0	.0	2.4
3-4	.0	2.4	3.1	.1	.0	.0	5.7	.0	1.3	2.6	.0	.0	.0	.0	3.3
5-6	.0	.5	3.0	.1	.0	.0	3.6	.0	.4	2.3	.2	.0	.0	.0	3.0
7	.0	.0	.9	.3	.2	.0	1.4	.0	.0	.9	.3	.0	.0	.0	1.3
8-9	.0	.0	.3	.2	.0	.0	.3	.0	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
57-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	7.5	9.0	.8	.2	.0	18.0	.8	6.1	6.0	.7	.0	.0	.0	12.9

PERIOD: (OVER-ALL) 1963-1976

FEBRUARY

AREA 0011 PORTO EGRE
30.85 49.0M

TABLE 18 (CONT)

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

HGT	S						PCT	SM						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.3	.1	.0	.0	.0	.4	.3	.0	.0	.0	.0	.0	.4
1-2	.3	2.3	.8	.0	.0	.0	3.3	.0	1.4	.8	.0	.0	.0	2.2
3-4	.0	2.3	.9	.8	.0	.0	4.0	.0	.7	1.4	.3	.0	.0	2.6
5-6	.0	.0	1.4	.8	.1	.0	2.2	.0	.3	1.1	.8	.0	.0	1.3
7	.0	.2	1.0	.2	.0	.0	1.4	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2	.0	.2
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.8	4.4	1.3	.1	.0	12.1	.4	2.2	4.1	.3	.2	.0	7.5

HGT	M						PCT	NM						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.7
1-2	.0	.3	.5	.0	.0	.0	1.0	.0	.7	.0	.0	.0	.0	.0	.8
3-4	.0	.1	.3	.2	.0	.0	.6	.0	.0	.3	.0	.0	.0	.0	.8
5-6	.0	.0	.7	.0	.0	.0	.7	.0	.0	.3	.0	.0	.0	.0	.2
7	.0	.0	.2	.1	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	1.7	.3	.0	.0	2.6	.0	.8	1.6	.1	.0	.0	2.4	98.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.6	3.3	.2	.0	.0	.0	8.0	
1-2	2.1	17.9	7.9	.0	.0	.0	27.9	
3-4	.2	10.2	16.7	1.8	.0	.0	28.9	
5-6	.0	2.3	13.8	2.0	.2	.0	18.4	
7	.0	.3	7.0	3.4	.2	.0	11.0	
8-9	.0	.0	1.3	1.6	.0	.0	3.0	
10-11	.0	.0	.3	1.3	.2	.0	2.0	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.2	.3	.2	.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	6.9	34.3	47.7	10.7	.3	.0	100.0	610

PERIOD: (OVER-ALL) 1949-1976

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	
46	1.1	10.2	13.1	7.3	2.5	.4	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	423	4
6-7	.0	1.1	6.0	11.9	3.3	2.0	1.4	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	339	5
8-9	.0	.3	2.3	4.2	4.4	1.8	1.6	.1	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	177	6
10-11	.0	.3	.4	.6	1.3	.6	.4	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	7
12-13	.0	.0	.4	.3	.3	.3	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	7
>13	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
INDXT	2.2	3.1	3.3	2.3	2.0	.6	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	167	4
TOTAL	3.3	17.8	32.8	31.7	14.8	7.0	5.3	.7	.9	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1194	5
PCT	3.3	14.9	27.5	26.5	15.7	3.9	4.6	.6	.8	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1868-1976

AREA 0011 PORTO ALEGRE
30.6S 49.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZM PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST	NO SIG WEA
N	2.9	2.0	1.3	.0	.0	.0	.3	7.1	3.5	4.2	.4	.0	1.0	.0	.0	83.7
NE	3.1	2.4	.6	.0	.0	.0	.3	6.2	1.6	2.7	1.0	.0	1.0	.0	.0	87.7
E	4.0	1.5	.5	.0	.0	.0	.0	6.0	3.4	1.0	.0	.0	.0	.0	.0	89.5
SE	2.6	2.3	1.5	.0	.0	.0	.0	6.4	1.8	.5	.0	.0	.4	.0	.0	91.0
S	3.2	2.7	.2	.0	.0	.0	.0	7.6	2.4	1.5	.0	.0	.0	.0	.0	88.6
SW	2.5	1.6	.4	.0	.0	.0	.4	5.0	2.4	2.2	.4	.0	.1	.0	.0	90.0
W	5.0	3.1	.0	.0	.0	.0	.0	8.1	.9	2.2	1.2	.0	.9	.0	.0	86.6
NW	4.6	4.2	.8	.0	.0	.0	.0	9.6	7.1	.8	.0	.0	.0	.0	.0	82.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	4.2	.0	.0	.0	.0	.0	4.2	4.2	.0	.0	.0	.0	.0	.0	91.7
TOT PCT	3.2	2.5	.7	.0	.0	.0	.2	6.5	2.5	1.9	.4	.0	.5	.0	.0	88.3
TOT OBS:	1910															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZM PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST	NO SIG WEA
0000	3.5	.5	.6	.0	.0	.0	.2	6.5	1.9	3.6	.4	.0	.2	.0	.0	87.7
0600	4.0	.5	1.1	.0	.0	.0	.2	7.8	3.6	4.2	.2	.0	.2	.0	.0	84.2
1200	2.8	.0	.8	.0	.0	.0	.0	6.6	2.1	.0	1.1	.0	.8	.0	.0	89.4
1800	2.4	.6	.4	.0	.0	.0	.2	4.7	2.4	.0	.2	.0	.9	.0	.0	91.8
TOT PCT	3.2	.4	.7	.0	.0	.0	.2	6.4	2.5	2.0	.5	.0	.5	.0	.0	88.2
TOT OBS:	1972															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-5	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.4	0.0	5.7	1.2	.0	.0	11.3	13.1	6.1	10.3	12.5	17.9	13.4	12.9	10.7	9.2	
NE	.5	9.2	14.0	2.7	.1	.0	27.6	13.4	27.5	27.9	29.2	16.2	27.7	26.6	26.7	27.5	
E	.7	6.4	6.6	1.1	.2	.0	18.0	12.3	16.9	16.8	15.3	11.3	13.1	12.6	16.0	4.9	
SE	.6	6.5	3.2	1.3	.2	.1	14.1	12.1	15.9	15.5	13.1	6.5	13.3	12.8	14.3	15.8	
S	1.0	3.3	4.2	1.1	.0	.0	11.6	11.4	13.8	11.0	10.4	11.9	10.7	11.8	11.6	11.4	
SW	.6	1.5	4.5	1.3	.2	.0	10.9	13.0	10.1	9.4	9.4	17.9	11.6	11.4	12.0	19.0	
W	.5	1.5	1.4	.6	.2	.0	4.3	14.0	3.0	3.2	4.3	6.0	4.9	3.8	4.2	11.4	
NW	.6	1.6	1.3	.0	.0	.0	3.9	11.3	3.0	4.2	4.2	2.4	3.9	4.8	3.8	.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.4						1.4	.0	1.3	1.6	1.7	.0	1.3	1.3	.7	2.2	
TOT OBS	462	2907	3160	690	70	11	7200	12.5	1310	903	1301	42	1305	1029	1.64	46	
TOT PCT	6.4	39.0	43.9	9.6	1.0	.2	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	1.0	5.8	3.4	.3	.0	11.3	13.1	9.0	12.7	13.1	10.6
NE	2.5	15.7	6.2	.6	.0	27.6	13.4	27.7	29.1	27.2	26.6
E	2.9	8.2	3.3	.4	.0	18.0	12.3	16.8	15.4	12.9	15.0
SE	3.3	7.4	2.6	.4	.2	14.1	12.1	15.7	12.9	13.1	14.4
S	2.3	5.6	2.3	.3	.0	11.6	11.4	12.7	10.5	11.2	11.6
SW	2.1	5.3	2.9	.4	.1	10.9	13.0	10.0	9.7	1.5	12.3
W	.8	2.0	1.1	.2	.1	4.3	14.0	3.1	4.2	3.3	.4
NW	1.3	1.8	.7	.1	.0	3.9	11.3	3.5	4.2	4.3	3.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4					1.4	.0	1.5	1.6	1.3	.8
TOT OBS	1473	3724	1768	196	29	7200	12.5	2212	343	2337	1370
TOT PCT	20.6	51.7	24.6	2.7	.4	100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1868-1976

MARCH

AREA 0011 PORTO ALEGRE
30.6S 49.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00&03	1.5	4.6	41.3	41.4	9.6	1.3	.4	12.6	100.0	2213
04&09	1.6	3.6	38.0	44.9	8.9	.9	.1	12.4	100.0	1343
12&15	1.5	3.6	38.9	43.4	9.8	.8	.0	12.3	100.0	2334
18&21	.8	4.3	36.3	47.9	9.8	.8	.2	12.9	100.0	1310
TOT	.9	3.63	28.07	31.60	8.90	.70	.11	12.5		7200
PCT	1.4	3.0	39.0	43.9	9.6	1.0	.2	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & 8 C2SCD	TOTAL OBS	MEAN CLOUD COVER
NE	10.3	3.3	7.6	3.7		3.8
E	3.6	3.2	4.4	3.1		4.2
SE	3.7	3.6	3.7	1.9		4.3
S	4.1	2.9	3.9	1.7		4.0
SW	3.6	1.8	4.3	1.3		4.2
W	1.3	.5	1.2	.8		4.3
NW	1.3	.2	1.1	.3		4.2
VAR	.0	.0	.0	.0		.0
C/LN	.6	.1	.2	.3		4.6
TOT OBS	300	279	443	226	1448	4.1
TOT PCT	34.3	19.3	30.6	19.8	100.0	

TABLE 6

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

WIND DIR	000	100	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.0	.3	.8	.3	.1	.0	.0	.0	.0	6.0
NE	.1	.1	.3	.6	1.7	2.3	1.3	.4	.2	.3	.3	19.3
E	.0	.1	.4	1.1	1.9	.9	.7	.1	.0	.0	.0	11.0
SE	.1	.0	.6	1.0	1.9	.9	.8	.1	.1	.1	.1	9.3
S	.1	.1	.3	.9	1.4	1.1	.6	.0	.0	.1	.1	8.1
SW	.2	.0	.1	.4	1.0	.8	.7	.0	.1	.1	.1	7.6
W	.0	.0	.1	.2	.7	.1	.1	.1	.0	.0	.0	2.3
NW	.0	.0	.1	.3	.6	.1	.1	.0	.0	.0	.0	1.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
C/LN	.0	.0	.0	.2	.3	.1	.1	.0	.0	.0	.0	.8
TOT OBS	7	3	27	77	130	99	66	10	7	7	997	1448
TOT PCT	.5	.2	1.9	5.3	10.4	6.8	4.6	.7	.3	.5	68.9	100.0

TABLE 7

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

CEILING (FEET)	OR			VSBY (NH)				
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0
>8000	.4	.7	.8	.8	.8	.8	.8	.8
>6000	1.1	1.8	1.3	1.8	1.8	1.5	1.3	1.3
>4000	4.2	3.7	4.0	6.0	6.0	6.0	6.0	6.0
>2000	9.0	12.0	12.7	12.7	12.7	12.8	12.8	12.8
>1000	16.0	21.0	22.6	22.8	22.8	22.8	22.8	22.9
>400	19.6	26.0	27.7	28.0	28.0	28.0	28.0	28.1
>300	20.8	27.7	29.3	29.8	29.8	29.9	29.9	29.9
>150	20.9	27.9	29.7	30.0	30.0	30.1	30.1	30.1
>0	21.2	28.3	30.1	30.4	30.4	30.5	30.5	30.6
TOTAL	314	420	447	431	431	432	433	434

TOTAL NUMBER OF OBS: 34

PCT FREQ NH <5/8: 68.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	12.8	16.7	16.9	13.0	9.7	7.6	8.0	3.7	9.2	.2	19.2

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1869-1976

MARCH

AREA 0011 PORTO ALEGRE
30.6S 49.1W

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.0	*	*	.0	.0	.0	.0	.2	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.1	.0	*	*	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.2	*	*	*	.0	.0	.0	.0	.0	.3	
	NO PCP	.1	*	*	*	.0	.0	.0	*	.0	.0	.2	
	TOT %	.1	.2	.1	*	*	.0	.0	*	.0	.0	.5	
2<5	PCP	.1	.1	.1	.2	.2	.1	.0	*	.0	.1	.9	
	NO PCP	.3	.3	.2	*	.1	.1	.1	*	.0	.1	1.3	
	TOT %	.4	.5	.4	.2	.4	.2	.1	*	.0	.2	2.9	
5<10	PCP	.4	.6	.8	.4	.5	.3	.3	.2	.0	.0	3.1	
	NO PCP	1.3	4.4	3.0	2.1	1.7	2.6	.7	.0	.0	.4	17.1	
	TOT %	1.9	4.9	3.6	2.5	2.2	2.9	1.0	.9	.0	.4	20.2	
10<	PCP	.3	.8	.1	.3	.2	.2	.1	.1	.0	.0	2.0	
	NO PCP	7.3	20.4	11.4	11.0	10.0	8.8	3.1	2.1	.0	.7	74.8	
	TOT %	7.6	21.2	11.8	11.3	10.1	9.1	3.2	2.2	.0	.7	76.9	
TOT OBS		10.0	26.4	19.6	14.1	12.0	12.1	4.2	3.1	.0	1.3	100.0	1907
TOT PCT													

TABLE 9

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

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	*	.1	.0	*	*	.0	.0	.0	.0	.0	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
1<2	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.1	.2	.1	*	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.2	.2	.1	*	.0	.0	.0	.0	.0	.0	.7	
2<5	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.2	.2	.1	.1	.0	.1	.0	.0	.0	.0	.9	
	11-21	.3	.3	.1	.2	.2	.1	.1	.0	.0	.0	1.4	
	22+	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.4	
	TOT %	.6	.6	.3	.4	.4	.4	.2	.1	.0	.0	3.0	
5<10	0-3	.0	.2	.0	.0	.0	.1	.0	.1	.0	.2	.9	
	4-10	.7	1.1	.8	.8	.7	.6	.2	.2	.0	.0	5.2	
	11-21	1.3	2.7	1.3	.9	.9	1.0	.3	.3	.0	.0	8.7	
	22+	.2	.6	.4	.4	.3	.4	.3	.1	.0	.0	2.7	
	TOT %	2.2	4.6	2.6	2.1	1.9	2.2	.7	.8	.0	.2	17.4	
10<	0-3	.3	.7	.3	.7	.8	.2	.3	.4	.0	.8	4.6	
	4-10	3.0	7.0	3.3	3.3	4.4	3.3	1.2	1.2	.0	.0	22.0	
	11-21	4.3	12.7	5.7	3.9	3.6	3.7	1.2	.7	.0	.0	33.9	
	22+	.7	1.8	.4	.8	.8	1.3	.6	.1	.0	.0	6.2	
	TOT %	8.3	22.2	12.1	10.9	9.3	3.6	3.2	2.5	.0	.8	76.7	
TOT OBS		11.4	28.1	19.3	13.5	11.8	11.2	4.1	3.4	.0	1.2	100.0	4049
TOT PCT													

MARCH

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1868-1976

AREA 0011 PORTO ALEGRE
30.6S 49.1W

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00603	.5	.0	2.3	3.6	10.9	4.1	4.1	.5	.3	.0	26.1	73.9	394
06609	.5	.3	2.3	4.2	8.9	8.1	3.1	.3	.3	.5	28.4	71.6	384
12615	.8	.5	1.3	7.2	8.5	9.5	5.2	.8	.8	.8	35.3	64.7	388
18621	.0	.0	1.1	5.0	11.1	4.7	5.3	1.3	.0	.5	28.9	71.1	380
TOT	7	3	27	77	152	102	68	11	5	7	459	1087	1546
PCT	.5	.2	1.7	5.0	9.8	6.6	4.4	.7	.3	.5	29.7	70.3	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
00603	.1	.2	.7	3.4	18.6	77.0	1218
06609	.2	.1	.6	3.2	20.7	75.3	897
12615	.2	.2	.6	2.8	16.3	79.7	1223
18621	.0	.0	.7	2.3	14.3	82.3	813
TOT	3	6	27	123	723	3227	4111
PCT	.1	.1	.7	3.0	17.6	78.5	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 <500D	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00603	.5	2.9	10.1	18.3	71.6	377
06609	.8	3.6	9.6	19.9	70.3	366
12615	.8	3.0	12.4	24.9	63.1	371
18621	.0	1.1	8.6	21.1	70.3	370
TOT	8	39	191	311	1022	1484
PCT	.5	2.6	10.2	21.0	68.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.1	.1	.1	.3	.1	.0	10	.7
80/84	.0	.0	.0	.2	.4	2.9	2.0	.5	89	6.1
75/79	.0	.0	.1	1.0	4.2	13.1	16.2	7.5	617	42.0
70/74	.0	.0	.3	2.9	8.8	10.6	12.6	6.9	618	42.1
65/69	.0	.0	.1	1.2	2.3	2.3	1.4	1.3	127	8.7
60/64	.0	.0	.0	.0	.1	.1	.1	.0	6	.4
50/54	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
TOTAL	0	0	9	79	233	431	478	238	1468	100.0
PCT	.0	.0	.6	5.4	16.0	29.4	32.4	16.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.4	.1	.1	.0	.1	.0	.0	.0	.0
80/84	1.5	2.8	.4	.4	.3	.5	.1	.2	.0	.0
75/79	3.9	14.3	7.3	5.4	2.7	3.2	.9	1.4	.0	.3
70/74	2.1	8.5	7.9	7.6	7.1	3.3	1.8	1.3	.0	.3
65/69	.3	.3	.6	1.3	2.6	2.2	1.0	.1	.0	.0
60/64	.0	.0	.0	.1	.1	.2	.0	.0	.0	.0
50/54	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
TOTAL	9.9	26.4	16.3	14.9	12.7	11.7	3.8	2.9	.0	1.1

TABLE 15

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

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	82	80	78	74	68	64	61	73.3	2198
06609	82	79	77	73	67	64	58	72.9	1347
12615	92	79	81	75	69	63	60	73.0	2274
18621	89	83	82	76	69	66	54	73.8	1242
TOT	92	82	80	74	68	64	54	74.3	7079

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	3.9	16.7	27.3	33.3	18.8	79	414
06609	.0	4.1	14.7	23.7	23.7	21.8	80	367
12615	.0	7.8	16.6	28.4	31.4	15.8	78	398
18621	.0	9.8	16.3	38.3	28.3	7.1	73	337
TOT	0	95	744	442	490	245	78	1316

MARCH

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1968-1976

AREA 0011 PORTO ALEGRE
30.05 49.1W

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	53 54	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	M FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	2	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	1	.0	.1
9/10	.0	.0	.0	.0	.0	.1	.1	.3	.1	.1	10	.0	.6
7/8	.0	.0	.0	.0	.0	.1	.4	.4	.2	.0	20	.0	1.2
6	.0	.0	.0	.0	.0	.1	.1	.3	.1	.0	10	.0	.6
5	.0	.0	.0	.0	.1	.1	.9	.3	.2	.0	28	.0	1.6
4	.0	.0	.0	.1	.0	.7	1.4	.5	.0	.0	47	.0	2.7
3	.0	.0	.0	.0	.1	1.2	1.7	.5	.0	.0	61	.1	3.5
2	.0	.0	.0	.0	.5	2.3	3.3	.5	.0	.0	114	.1	6.3
1	.0	.0	.0	.0	1.0	4.4	5.4	.1	.0	.0	189	.1	10.6
0	.0	.0	.0	.3	2.2	8.3	4.9	.2	.0	.0	274	.2	15.6
-1	.0	.0	.0	.6	3.8	7.3	2.5	.0	.0	.0	223	.0	12.9
-2	.0	.0	.2	.6	3.5	7.0	1.2	.1	.0	.0	219	.0	12.9
-3	.0	.0	.1	.3	3.1	4.9	.4	.0	.0	.0	132	.0	8.8
-4	.0	.0	.1	1.2	4.0	3.2	.1	.0	.0	.0	149	.1	8.3
-5	.0	.0	.2	.9	2.7	1.2	.1	.0	.0	.0	87	.0	5.0
-6	.0	.0	.1	.7	1.7	.6	.0	.0	.0	.0	69	.0	4.0
-7/-8	.1	.0	.1	.9	1.7	.9	.0	.0	.0	.0	33	.0	3.2
-9/-10	.0	.0	.1	.4	.3	.1	.0	.0	.0	.0	19	.1	.8
-11/-13	.0	.0	.2	.4	.0	.0	.0	.0	.0	.0	8	.0	.3
TOTAL	1	0	17	103	425	733	383	98	11	2	1733	8	1725
PCT	.1	.0	1.0	5.9	24.5	42.3	22.1	3.3	.6	.1	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

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

HGT	N						PCT	NE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	.0	.0	.0	.0	.0	.4	.2	1.0	.0	.0	.0	.0	.0	1.2
1-2	.0	2.4	1.0	.0	.0	.0	3.4	.4	4.8	1.4	.0	.0	.0	.0	7.9
3-4	.0	.4	1.9	.2	.0	.0	2.4	.0	2.2	4.1	.2	.0	.0	.0	6.4
5-6	.0	.3	2.3	.3	.0	.0	2.9	.0	1.0	2.9	.3	.0	.0	.0	4.2
7	.0	.0	1.0	.1	.0	.0	1.1	.0	.2	2.3	.1	.0	.0	.0	2.7
8-9	.0	.0	.1	.3	.0	.0	.3	.0	.0	.4	.2	.0	.0	.0	1.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.4
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.2
13-16	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.3	4.4	1.0	.0	.0	11.1	.6	9.4	13.2	1.0	.0	.0	.0	24.2

HGT	E						PCT	SE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	1.1	.0	.0	.0	.0	1.3	.8	.1	.0	.0	.0	.0	.0	.9
1-2	.0	4.3	.7	.0	.0	.0	4.9	.2	2.2	.8	.0	.0	.0	.0	3.2
3-4	.0	1.3	3.2	.2	.0	.0	4.9	.2	1.6	2.7	.2	.0	.0	.0	4.8
5-6	.0	.1	1.8	.0	.0	.0	1.9	.0	.4	1.3	.2	.0	.0	.0	2.0
7	.0	.3	.9	.3	.0	.0	1.6	.0	.2	.9	.0	.0	.0	.0	1.1
8-9	.0	.2	.2	.0	.0	.0	.4	.0	.0	.9	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	7.5	6.8	.3	.0	.0	15.0	1.3	4.3	5.9	.6	.0	.0	.0	12.2

PERIOD: (OVER-ALL) 1963-1976

MARCH

AREA 0011 PORTO ALEGRE
30.65 49.1W

TABLE 18 (CONT)

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

HGT	S								SW								TOTAL PCT
	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	.5	.9	.9	.0	.0	.0	1.4	.0	.2	.0	.0	.0	.0	.3			
1-2	.1	3.2	1.2	.0	.0	.0	4.5	.0	1.1	.4	.0	.0	.0	1.5			
3-4	.0	1.3	2.1	.1	.0	.0	3.5	.0	.9	3.3	.2	.0	.0	4.1			
5-6	.0	.3	1.8	.1	.0	.0	2.3	.0	.2	2.3	.9	.0	.0	3.5			
7	.0	.1	2.9	.1	.0	.0	2.8	.0	.2	1.5	.4	.0	.0	2.2			
8-9	.0	.0	.1	.4	.0	.0	.5	.0	.0	.8	.2	.0	.0	1.0			
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2			
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0			
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
TOT PCT	.8	3.9	7.8	1.0	.0	.0	13.4	.0	2.3	8.6	1.8	.0	.0	12.8			

HGT	M								NW								TOTAL PCT
	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	.4			
1-2	.0	.3	.2	.0	.0	.0	.7	.0	1.0	.8	.0	.0	.0	1.8			
3-4	.0	.1	.2	.1	.0	.0	.4	.0	.0	.7	.0	.0	.0	.7			
5-6	.0	.0	.7	1.0	.0	.0	1.7	.0	.0	.2	.2	.0	.0	.5			
7	.0	.0	.2	.2	.0	.0	.6	.0	.0	.2	.0	.0	.0	.2			
8-9	.0	.0	.1	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0			
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0			
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
TOT PCT	.0	.7	1.5	1.8	.2	.0	4.2	.2	1.3	2.0	.3	.0	.0	3.8			

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.3	4.2	.0	.0	.0	.0	9.5	
1-2	.8	19.0	7.4	.0	.0	.0	27.2	
3-4	.2	7.6	17.7	1.3	.0	.0	26.9	
5-6	.0	2.9	13.0	3.0	.0	.0	18.9	
7	.0	1.1	9.3	1.3	.2	.0	12.0	
8-9	.0	.2	2.3	1.3	.0	.0	4.0	
10-11	.0	.0	.6	.2	.0	.0	.8	
12	.0	.0	.4	.0	.0	.0	.4	
13-16	.0	.2	.0	.4	.0	.0	.6	
17-19	.0	.2	.0	.0	.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	6.3	33.0	30.7	7.8	.2	.0	106.0	323

PERIOD: (OVER-ALL) 1949-1976

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	9.3	13.3	8.0	3.4	.6	.4	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	442	4
6-7	.0	1.6	7.3	10.3	7.1	1.0	1.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	382	3
8-9	.0	.6	2.0	2.3	3.8	2.9	1.3	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	173	7
10-11	.0	.9	.6	.3	1.1	1.2	.7	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	7
12-13	.0	.0	.2	.4	.2	.6	.2	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	23	8
15-19	.0	.0	.0	.1	.2	.0	.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	11
INDRY	1.9	2.7	2.9	2.2	1.3	.4	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	143	4
TOTAL	4.0	17.4	22.2	23.9	21.0	9.0	5.1	2.8	1.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	1222	3
PCT	3.3	14.2	20.4	24.1	17.2	7.4	4.2	2.0	.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1860-1976

APRIL

AREA 0011 PORTO ALEGRE
30.83 49.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.5	1.1	.8	.0	.0	.0	.0	4.4	.4	5.2	.4	.0	.6	.0	89.1
NE	3.2	.8	.6	.0	.0	.0	.0	4.6	1.6	1.3	.9	.0	.9	.0	90.9
E	2.1	2.7	.5	.0	.0	.0	.0	5.4	1.9	.9	.0	.0	1.0	.0	90.9
SE	4.4	2.3	.0	.0	.0	.0	.0	6.6	2.7	1.6	.0	.0	.0	.0	89.1
S	3.1	1.3	1.0	.0	.0	.0	.0	3.1	3.0	1.2	1.1	.0	.0	.0	89.6
SW	1.8	3.4	1.6	.0	.0	.0	.0	6.6	1.6	1.7	.1	.0	.7	.0	89.6
W	1.7	2.2	.0	.0	.0	.0	.0	3.9	1.3	2.2	.0	.0	.0	.0	92.4
NW	3.8	3.1	2.0	.0	.0	.0	.0	10.9	.0	4.3	1.3	.0	.0	.0	83.2
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	4.5	.0	.0	.0	.0	95.5
TOT PCT	2.8	1.9	.8	.0	.0	.0	.0	5.4	1.6	2.1	.5	.0	.5	.0	89.9
TOT OBS:	2066														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0800	2.7	2.3	.8	.0	.0	.0	.0	5.5	1.3	4.7	1.1	.0	.8	.0	86.5
0809	3.2	1.2	.8	.0	.0	.0	.0	5.2	2.0	4.0	.2	.0	.2	.0	88.7
1219	1.6	1.9	.6	.0	.0	.0	.0	4.2	1.9	.2	.3	.0	.3	.0	93.1
1821	3.7	2.4	.9	.0	.0	.0	.0	7.0	1.3	.2	.9	.0	.9	.0	89.0
TOT PCT	2.7	1.9	.8	.0	.0	.0	.0	5.4	1.7	2.2	.6	.0	.5	.0	89.7
TOT OBS:	2111														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT PRGQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.7	4.6	9.9	1.8	.1	.0	13.1	13.4	10.9	12.7	15.2	12.5	15.0	14.1	11.4	2.5	
NE	.9	7.6	11.9	2.2	.1	.0	22.7	13.2	23.4	25.5	23.3	28.5	22.2	20.1	21.7	32.6	
E	.7	3.7	4.9	.7	.1	.0	11.8	11.8	12.4	11.4	12.7	20.4	10.4	9.8	11.6	12.3	
SE	.7	5.4	4.3	.8	.1	.0	11.6	11.4	12.8	12.8	10.2	.0	11.1	11.7	11.7	14.8	
S	.8	3.0	4.7	1.2	.1	.0	11.8	12.2	13.0	11.4	10.6	13.2	11.0	11.3	13.5	8.2	
SW	.7	4.4	6.2	2.5	.3	.0	14.3	13.0	15.7	12.5	11.7	17.5	13.8	15.8	14.0	16.8	
W	.6	2.3	2.4	1.5	.4	.0	7.2	13.1	3.4	3.8	7.7	7.9	7.5	9.1	7.3	11.1	
NW	.4	3.0	1.7	.6	.1	.0	5.9	11.8	4.7	3.3	6.2	.0	7.2	6.8	3.7	1.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.8						1.8	.0	1.8	2.3	2.4	.0	1.9	1.3	1.2	.0	
TOT OBS	348	2788	3091	844	103	9	7370	12.8	1322	920	1313	87	1323	1109	1363	61	
TOT PCT	7.4	37.8	41.9	11.3	1.4	.1	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT PRGQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40				00	03	06	09	12	15	18	21
N	2.4	6.3	3.9	.8	.0	13.1	13.4	11.1	15.1	14.6	11.0		
NE	3.6	11.8	6.8	.8	.0	22.7	13.2	24.4	23.5	21.2	22.2		
E	2.8	6.1	2.3	.2	.0	11.8	11.8	12.1	13.0	10.1	11.7		
SE	3.0	6.0	2.3	.3	.0	11.6	11.4	12.8	9.7	11.4	11.8		
S	2.8	3.9	2.7	.3	.0	11.8	12.2	12.4	10.7	11.1	13.2		
SW	2.8	3.8	4.8	1.1	.1	14.3	13.0	14.4	12.0	14.7	16.0		
W	1.7	2.5	2.0	.8	.1	7.2	13.1	3.4	3.8	7.7	8.2	7.5	
NW	1.9	2.7	1.0	.3	.1	5.9	11.8	4.9	3.9	7.0	3.5		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.8					1.8	.0	2.0	2.3	1.4	1.1		
TOT OBS	1656	3468	1919	293	34	7370	12.8	2242	1370	2434	1324		
TOT PCT	22.8	47.1	26.0	4.0	.3	100.0		100.0	100.0	100.0	100.0		

APRIL

PERIOD: (PRIMARY) 1914-1976
(COVER-ALL) 1860-1976

AREA 0011 PORTO ALEGRE
30.63 49.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	2.0	3.3	39.4	41.9	9.9	1.4	.1	12.5	100.0	2262
0600Z	2.3	6.0	37.4	42.2	10.9	1.0	.1	12.6	100.0	1970
1200Z	1.6	3.7	36.8	41.0	13.1	1.7	.0	13.1	100.0	2434
1800Z	1.1	3.7	37.5	43.4	10.7	1.3	.2	12.9	100.0	1924
TOT	1.90	4.18	27.88	30.91	10.3	1.4	.1	12.8	100.0	7370
PCT	1.6	3.6	37.8	41.9	11.3	1.4	.1	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	9.6	4.8	7.9	2.0	3.7	3.7
E	3.0	3.3	4.6	2.0	4.1	4.1
SE	2.6	2.3	3.3	1.4	4.6	4.6
S	4.7	2.4	3.8	2.6	4.2	4.2
SW	4.8	3.3	4.1	1.8	4.0	4.0
W	1.6	1.0	2.4	.7	4.3	4.3
NW	1.5	.8	1.1	.8	4.2	4.2
VAR	.0	.0	.0	.0	.0	.0
CALM	.9	.1	.2	.1	2.3	2.3
TOT OBS	318	290	438	198	1442	4.0
TOT PCT	35.9	20.1	30.4	13.6	100.0	

TABLE 6

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

WIND DIR	CEILING HEIGHTS (FT, NH >4/8)										NH <4/8 ANY HGT	TOTAL OBS
	000	100	300	600	1000	2000	3000	5000	6000	8000+		
N	.0	.0	.1	.4	.8	.8	.1	.2	.1	.0	.0	10.0
NE	.1	.0	.1	1.0	1.6	1.6	.7	.2	.2	.0	.0	18.6
E	.0	.0	.4	.7	1.9	1.6	.5	.0	.0	.1	.1	9.6
SE	.0	.0	.2	.7	1.0	1.0	.8	.1	.0	.0	.1	6.0
S	.0	.1	.3	1.1	1.6	1.1	.5	.3	.1	.1	.1	8.3
SW	.0	.1	.1	1.0	.9	1.1	.5	.3	.0	.2	.1	10.1
W	.0	.0	.0	.6	.8	.4	.9	.2	.1	.1	.1	3.3
NW	.0	.0	.2	.2	.3	.2	.2	.2	.2	.1	.1	2.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	1.1
TOT OBS	1	2	21	82	129	115	37	22	9	9	1000	1442
TOT PCT	.1	.1	1.3	5.7	8.9	8.0	3.6	1.3	.6	.6	69.3	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0
>6000	.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>4000	1.9	2.8	2.8	2.8	2.8	2.8	2.8	2.8
>3000	4.3	6.0	6.3	6.3	6.3	6.3	6.3	6.3
>2000	10.2	13.6	14.2	14.2	14.2	14.2	14.2	14.2
>1000	16.9	23.0	23.2	23.3	23.3	23.3	23.3	23.3
>600	20.8	27.6	29.0	29.2	29.2	29.2	29.2	29.2
>300	21.3	28.8	30.5	30.6	30.6	30.6	30.6	30.6
>150	21.3	28.6	30.6	30.7	30.7	30.7	30.7	30.7
>0	21.3	28.9	30.7	30.8	30.8	30.8	30.8	30.8
TOTAL	313	420	446	448	448	448	448	448

TOTAL NUMBER OF OBS: 1434

PCT FREQ NH <5/8: 69.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.1	16.0	16.7	17.5	9.0	7.2	7.3	7.4	9.8	.1	1378

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1860-1976

APRIL

AREA 0011 PORTO ALEGRE
30.6S 49.1W

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
1<2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
2<5	PCP	.0	.2	.0	.0	.2	.2	.0	.2	.0	.0	1.0	1.0
	NO PCP	.1	.4	.2	.1	.2	.2	.1	.1	.0	.0	1.9	1.9
	TOT %	.1	.6	.2	.1	.4	.4	.1	.3	.0	.0	2.4	2.4
5<10	PCP	.3	.7	.5	.3	.3	.4	.1	.1	.0	.0	2.4	2.4
	NO PCP	3.8	3.3	1.9	1.2	2.1	3.1	1.7	1.4	.0	.1	20.6	20.6
	TOT %	4.1	4.0	2.4	1.5	2.5	3.6	1.8	1.5	.0	.1	23.4	23.4
10+	PCP	.1	.2	.1	.3	.1	.2	.1	.1	.0	.0	1.3	1.3
	NO PCP	9.2	18.1	10.8	7.2	9.3	9.7	4.4	2.8	.0	1.0	72.5	72.5
	TOT %	9.3	18.3	11.0	7.5	9.4	9.9	4.5	2.8	.0	1.0	73.7	73.7
TOT OBS													2062
TOT PCT													13.6 23.0 13.7 9.1 12.3 14.0 6.9 4.8 .0 1.1 100.0

TABLE 9

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

VISBY (MM)	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	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.3
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3
	TOT %	.1	.1	.1	.1	.1	.1	.0	.1	.0	.0	.0	.6
2<5	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.7
	11-21	.1	.4	.2	.1	.2	.2	.0	.1	.0	.0	.0	1.3
	22+	.0	.1	.1	.0	.1	.2	.1	.1	.0	.0	.0	.7
	TOT %	.2	.6	.3	.3	.4	.6	.2	.2	.0	.0	.0	2.8
5<10	0-3	.2	.1	.1	.1	.1	.0	.2	.1	.0	.0	.2	1.1
	4-10	.9	1.3	.6	.9	.8	.7	.3	.6	.0	.0	.0	5.8
	11-21	1.4	2.4	.9	.8	1.0	1.3	.3	.4	.0	.0	.0	6.6
	22+	.0	.8	.2	.2	.3	.8	.6	.1	.0	.0	.0	3.5
	TOT %	3.1	4.5	1.8	2.0	1.9	2.9	1.4	1.2	.0	.2	.2	16.9
10+	0-3	.3	.4	.3	.4	.4	.3	.4	.3	.0	1.1	.0	4.4
	4-10	4.5	7.1	4.3	4.7	3.9	3.3	2.1	2.6	.0	.0	.0	31.8
	11-21	4.3	9.4	4.3	3.2	3.8	5.3	2.3	1.2	.0	.0	.0	33.7
	22+	.7	1.2	.3	.3	.9	2.3	1.3	.3	.0	.0	.0	7.6
	TOT %	9.1	18.1	9.5	8.7	9.0	11.7	5.8	4.4	.0	1.1	1.1	77.3
TOT OBS													4073
TOT PCT													12.3 23.4 11.8 11.0 11.4 13.3 7.3 3.9 .0 1.3 100.0

APRIL

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1860-1976

AREA 0011 PORTO ALEGRE
30.65 49.1W

TABLE 10

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

HOUR (GMT)	000	130	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	.3	.0	.8	6.0	7.0	5.1	3.3	.5	.3	.0	23.3	76.7	369
0600	.0	.0	1.3	7.5	7.7	5.9	3.2	1.3	.8	.8	28.5	71.5	375
1200	.0	.0	1.2	5.1	9.5	9.2	3.7	1.6	.5	1.2	31.9	68.1	433
1800	.0	.5	2.2	3.5	10.1	9.8	3.3	2.2	.8	.3	32.7	67.3	367
TOT	1	2	21	85	133	117	32	22	9	9	451	1099	1846
PCT	.1	.1	1.4	5.5	8.6	7.6	3.4	1.4	.6	.6	29.2	70.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	.1	.2	.	3.0	20.2	75.9	1191
0600	.0	.2	.3	2.8	19.3	77.2	860
1200	.1	.0	.6	2.1	19.2	78.1	1268
1800	.1	.0	.9	3.3	18.0	77.7	799
TOT	3	4	26	113	793	3179	4118
PCT	.1	.1	.6	2.7	19.3	77.2	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 <30YD	<600 <1	<1000 <3	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000	.3	1.2	9.6	16.4	74.0	342
0600	.0	1.4	10.8	20.2	69.0	332
1200	.0	1.2	7.8	23.7	66.5	409
1800	.0	2.8	9.7	23.1	65.2	351
TOT	1	24	137	320	997	1454
PCT	.1	1.7	9.4	22.0	68.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT PRBQ
88/89	.0	.0	.0	.1	.1	.0	.0	.0	2	.1
80/84	.0	.0	.1	.1	.2	.3	.4	.1	15	1.0
78/79	.0	.0	.1	.3	1.3	3.3	6.7	3.0	239	16.7
70/74	.0	.0	.1	1.5	7.3	13.1	16.5	10.6	787	49.4
63/69	.0	.0	.2	2.6	6.9	6.0	3.7	3.9	396	23.5
60/64	.0	.0	.4	2.4	2.0	1.2	.6	.1	105	6.8
55/59	.0	.0	.0	.0	.1	.2	.1	.1	10	.6
TOTAL	0	0	8	32	207	416	477	284	1534	100.0
PCT	.0	.0	.5	3.9	13.9	26.8	30.7	18.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
88/89	0	0	0	0	.0	.0	.0	.0	.0	.0
80/84	.2	.3	.1	0	.1	.0	.0	.0	.0	.0
78/79	4.8	9.8	1.2	0	.7	1.1	.7	.8	.0	.2
70/74	6.9	13.6	8.1	3.3	3.1	4.8	1.8	3.1	.0	.4
63/69	1.3	3.2	2.6	3.6	4.7	3.6	2.8	.9	.0	.6
60/64	.3	.2	0	.4	2.2	2.2	1.0	.3	.0	.0
55/59	0	.1	.0	.0	.1	.2	.2	.0	.0	.0
TOTAL	13.9	24.2	12.2	10.1	13.0	13.9	6.5	5.1	.0	1.2

TABLE 15

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

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	84	77	76	71	63	59	52	70.1	2231
0600	79	77	75	70	62	60	54	69.6	1381
1200	86	80	78	72	64	60	58	71.4	2293
1800	92	82	79	73	65	62	54	72.2	1286
TOT	92	80	77	71	64	60	52	70.8	7291

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	4.5	10.1	26.2	27.7	22.8	7.9	4.3	7.9	425
0600	.0	3.3	15.3	22.2	32.7	24.5	8.0	3.9	8.0	379
1200	.0	4.9	13.7	28.8	33.3	17.1	7.9	4.1	7.9	451
1800	.0	8.7	23.9	29.0	29.6	9.0	7.3	3.3	7.3	335
TOT	0	9.0	29.0	42.2	49.1	29.9	7.8	13.8	7.8	1588

APRIL

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1860-1976

AREA 0011 PORTO ALEGRE
30.6S 49.1W

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 DIP	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	M FOG	MO FOG
11/13	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.1
9/10	.0	.0	.0	.0	.0	.2	.1	.0	3	.0	.3
7/8	.0	.0	.0	.1	.2	.1	.1	.1	10	.0	.5
6	.0	.0	.0	.1	.4	.2	.0	.0	13	.0	.7
5	.0	.0	.0	.2	.5	.5	.1	.0	25	.0	1.3
4	.0	.0	.5	.7	1.3	.6	.1	.0	36	.0	3.0
3	.0	.0	.2	1.0	1.7	.9	.1	.0	70	.1	3.7
2	.0	.0	.9	1.7	3.6	1.0	.1	.0	131	.1	7.1
1	.0	.1	.9	3.0	4.3	1.0	.0	.0	168	.1	9.0
0	.1	.5	1.3	3.8	6.6	.9	.0	.0	283	.1	13.2
-1	.0	.4	1.8	4.7	5.1	.1	.0	.0	223	.1	12.0
-2	.1	.6	2.4	3.3	3.7	.1	.0	.0	223	.1	12.0
-3	.0	.3	2.4	4.9	1.6	.0	.0	.0	171	.2	9.1
-4	.1	.4	2.6	4.0	1.1	.0	.0	.0	194	.1	8.3
-5	.1	.6	1.7	2.1	.1	.0	.0	.0	83	.0	4.6
-6	.4	.9	1.4	1.1	.2	.0	.0	.0	74	.0	4.0
-7/-8	.4	1.0	2.9	1.3	.1	.0	.0	.0	101	.0	3.3
-9/-10	.2	.8	.6	.3	.0	.0	.0	.0	38	.0	2.1
-11/-13	.1	.3	.1	.1	.0	.0	.0	.0	13	.0	.7
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
-17/-19	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	29	113	333	676	588	104	2	1833	12	.6	1841
PCT	1.6	6.1	19.1	36.3	30.5	3.6	.3	100.0	.6	99.4	

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

HGT	M						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	.3	.8	.0	.0	.0	.3	.8	.9	.8	.0	.0	.0	1.6
1-2	.2	2.1	.3	.0	.0	.0	2.6	.4	3.1	2.3	.0	.0	.0	7.7
3-4	.0	.8	2.3	.0	.0	.0	2.7	.0	2.4	3.2	.4	.0	.0	8.0
5-6	.0	.4	1.9	.3	.0	.0	2.6	.0	.3	3.6	.7	.0	.0	4.6
7	.0	.4	.2	.4	.0	.0	.5	.0	.0	2.7	.9	.2	.0	3.8
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.4	.3	.0	.0	.9
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.2	4.8	.9	.0	.0	9.1	1.1	8.7	14.1	2.9	.2	.0	27.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.5	.8	.0	.0	.0	.0	1.3	.0	1.0	.0	.0	.0	.0	1.0
1-2	.2	2.7	1.9	.0	.0	.0	4.2	.0	3.7	.8	.0	.0	.0	4.3
3-4	.0	.9	3.3	.2	.0	.0	4.6	.0	1.7	2.0	.0	.0	.0	3.7
5-6	.0	.4	2.3	.2	.0	.0	3.1	.0	.2	1.1	.0	.0	.0	.3
7	.0	.4	.4	.3	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.4	.7	.0	.0	1.1	.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	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.8	8.6	1.3	.0	.0	13.6	.0	6.6	2.7	.2	.0	.0	9.3

PERIOD: (OVER-ALL) 1963-1974

APRIL

AREA 0011 PORTO ALEGRE
50.85 49.1W

TABLE 18 (CONT)

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

HGT	S						PCT	SW						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.7	.9	.0	.0	.0	.0	1.0	.0	.5	.0	.0	.0	.0	.0	.0
1-2	.0	3.1	1.2	.0	.0	.0	4.3	.0	1.9	.3	.0	.0	.0	.0	2.2
3-4	.2	1.3	3.2	.2	.0	.0	4.9	.0	1.1	2.7	.2	.0	.0	.0	3.9
5-6	.0	.8	2.8	.1	.0	.0	3.6	.0	.1	3.5	.2	.0	.0	.0	3.8
7	.0	.3	.9	.7	.0	.0	1.8	.0	.0	.8	.2	.0	.0	.0	.4
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.2	.0	.0	.0	.2
10-11	.0	.0	.1	.3	.0	.0	.4	.0	.0	.4	.3	.0	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.8	8.2	1.3	.0	.0	16.1	.0	3.8	7.2	1.0	.0	.0	.0	12.0

HGT	W						PCT	NW						TOTAL PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.2	.0	.0	.0	.0	.2	.0	.7	.2	.0	.0	.0	.0	.9
1-2	.4	.8	.1	.0	.0	.0	1.3	.2	.8	.4	.0	.0	.0	.0	1.4
3-4	.0	.1	.7	.0	.0	.0	1.4	.0	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.0	.8	.2	.0	.0	.0	.4
7	.0	.2	.2	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.3	1.3	1.0	.0	.0	4.0	.2	2.1	1.9	.2	.0	.0	.0	4.4 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	4.1	4.9	.2	.0	.0	.0	9.2	
1-2	1.4	20.3	.0	.0	.0	.0	21.7	
3-4	.2	2.5	19.8	1.4	.0	.0	23.9	
5-6	.0	2.2	13.1	2.8	.0	.0	18.1	
7	.0	.5	4.7	2.8	.2	.0	7.9	
8-9	.0	.0	1.3	1.8	.0	.0	3.1	
10-11	.0	.0	.5	1.1	.0	.0	1.6	
12	.0	.0	.2	.4	.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	5.8	34.3	48.7	9.0	.2	.0	100.0	586

PERIOD: (OVER-ALL) 1949-1974

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	9.2	12.7	6.4	2.4	1.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	413	3
6-7	.0	1.7	8.7	11.9	4.9	2.0	1.7	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	374	5
8-9	.0	.8	1.2	3.8	6.4	2.3	1.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	200	7
10-11	.0	.3	.2	.5	1.3	.4	.7	.1	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	8
12-13	.0	.0	.3	.3	.2	.3	.9	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	8
>19	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
INDFT	.9	1.6	2.3	3.1	1.6	.9	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123	4
TOTAL	37	142	301	310	202	89	58	13	16	1	1	0	0	0	0	0	0	0	0	0	1190	5
PCT	3.1	13.6	25.3	26.1	17.0	7.5	4.9	1.1	1.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1857-1976

MAY

AREA CO. PORTO ALEGRE
30.63 48.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.0	1.1	.5	.0	.0	.0	.0	4.7	.4	4.8	4.4	.0	1.3	.0	84.9
NE	1.8	3.0	1.0	.0	.0	.0	.0	5.9	1.5	1.7	4.8	.0	.3	.0	86.1
E	4.1	2.8	1.8	.0	.0	.0	.0	8.1	3.3	2.1	4.8	.0	.3	.0	81.5
SE	5.2	2.8	2.2	.0	.0	.0	.0	9.6	2.5	.6	.6	.0	.0	.0	86.7
S	2.2	2.7	1.9	.0	.0	.0	.0	6.8	2.3	.6	.7	.0	.5	.0	85.1
SW	2.8	3.1	1.3	.0	.0	.0	.0	7.3	2.5	2.0	1.2	.0	.4	.0	87.3
W	1.8	3.2	1.1	.0	.0	.0	.3	6.3	.9	1.6	.8	.0	.4	.0	90.0
NW	2.2	3.2	.8	.0	.0	.0	.4	6.3	1.6	2.2	5.6	.0	.0	.0	84.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	4.3	4.3	.0	.0	.0	.0	9.7	.0	.0	4.3	.0	4.3	.0	82.6
TOT PCT	2.7	2.8	1.3	.0	.0	.0	.1	6.7	1.8	2.0	2.9	.0	.5	.0	86.4
TOT OBS:	1814														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	2.4	3.9	1.2	.0	.0	.0	.2	7.5	1.2	4.3	4.1	.0	.4	.0	82.9
0600	2.7	2.2	2.0	.0	.0	.0	.0	6.9	2.3	2.9	2.2	.0	.2	.0	85.5
1200	2.2	3.3	1.2	.0	.0	.0	.0	6.5	1.4	.2	3.7	.0	1.0	.0	87.1
1800	3.4	1.4	.7	.0	.0	.0	.0	5.5	1.8	.7	1.6	.0	.2	.0	90.4
TOT PCT	2.7	2.7	1.3	.0	.0	.0	.1	6.6	1.8	2.0	2.9	.0	.5	.0	86.4
TOT OBS:	1863														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT PRFQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.7	5.7	3.9	1.6	.1	.0	14.0	12.6	12.8	13.6	15.6	18.3	19.5	14.0	12.5	9.7	
NE	.9	7.3	8.0	1.8	.1	.0	18.2	12.7	18.8	20.6	18.7	22.6	14.9	14.1	18.2	26.7	
E	.6	4.0	2.7	.7	.1	.0	8.1	11.5	9.9	8.8	8.2	3.0	7.5	6.8	7.3	12.5	
SE	.8	4.8	3.3	1.0	.2	.1	10.3	12.0	10.7	10.4	10.7	12.2	9.7	10.0	10.4	9.7	
S	1.0	4.4	4.0	1.2	.3	.1	11.0	12.6	11.8	10.2	9.9	14.6	11.6	11.1	11.1	7.4	
SW	.7	3.0	7.4	3.6	.9	.1	17.9	16.1	17.7	16.8	17.4	17.1	17.7	17.5	20.5	11.4	
W	.5	3.0	3.2	2.0	.9	.2	9.8	17.8	8.3	7.6	9.0	9.1	9.8	12.6	10.1	10.2	
NW	.7	3.7	2.7	.7	.1	.1	8.0	11.9	7.1	6.3	7.9	3.0	9.4	9.2	7.9	10.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.6						2.6	.0	3.0	3.5	3.7	.0	1.9	2.7	2.1	2.3	
TOT OBS	468	2915	2399	975	215	42	7711	19.2	1384	1034	1235	41	1338	1151	1362	44	
TOT PCT	6.6	37.8	37.6	12.6	2.8	.5	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT PRFQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	09	15	18
N	2.8	7.4	3.3	.4	.1	14.0	12.6	13.1	15.7	14.8	12.4	
NE	3.6	9.3	4.9	.5	.1	18.2	12.7	19.6	18.9	16.3	18.4	
E	2.1	4.4	1.2	.3	.1	8.1	11.5	9.4	8.1	7.2	7.3	
SE	2.9	3.1	1.7	.5	.1	10.3	12.0	10.6	10.7	9.8	10.4	
S	3.0	4.9	2.5	.5	.1	11.0	12.6	11.1	10.0	11.3	11.0	
SW	2.6	7.2	6.0	1.9	.3	17.9	16.1	17.3	17.4	17.6	20.2	
W	1.6	3.3	2.6	1.6	.5	9.8	17.8	8.8	9.0	11.1	10.1	
NW	2.2	3.9	1.3	.3	.1	8.0	11.9	6.8	7.8	9.3	8.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.6					2.6	.0	3.2	2.6	2.3	2.1	
TOT OBS	1799	3323	1417	468	104	7711	19.2	1420	1396	2489	1406	
TOT PCT	23.3	48.7	23.6	6.1	1.3	100.0		100.0	100.0	100.0	100.0	

MAY

PERIOD: (PRIMARY) 1912-1976
(COVER-ALL) 1957-1976

AREA 0011 PORTO ALEGRE
30.65 48.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	3.2	5.7	38.4	37.0	12.4	2.6	.7	13.1	100.0	2420
0600Z	2.6	5.6	38.8	37.4	12.2	2.9	.4	13.1	100.0	1396
1200Z	2.3	6.4	36.9	38.1	12.7	3.1	.3	13.4	100.0	2489
1800Z	2.1	6.3	37.3	38.0	13.3	2.8	.3	13.3	100.0	1408
TOT	200	485	2915	2899	975	715	.42	13.2		7711
PCT	2.6	6.0	37.8	37.6	12.6	2.8	.5	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
NE	10.2	3.7	6.0	2.9		3.4
E	2.9	1.1	1.5	2.9		4.6
SE	1.9	1.6	3.0	2.7		3.2
S	3.7	2.3	3.5	1.7		4.1
SW	3.3	4.2	6.0	3.8		4.4
W	4.0	1.0	2.7	1.0		3.6
NW	3.2	1.2	1.4	1.2		3.6
VAR	.0	.0	.0	.0		.0
CALM	.9	.0	.2	.3	1200	2.0
TOT OBS	479	219	360	231	1200	4.0
TOT PCT	37.2	17.0	27.9	17.9	100.0	

TABLE 6

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

WIND DIR	CEILING HEIGHTS (FT, NH >4/8)										NH <5/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+		
N	.1	.0	.2	.7	.9	.8	.3	.1	.2	.0	.0	9.1
NE	.0	.0	.3	.9	1.7	1.2	1.2	.2	.0	.0	.0	17.3
E	.1	.1	.1	.3	1.8	.7	.5	.0	.0	.0	.0	4.9
SE	.0	.1	.1	1.3	.8	.8	.3	.0	.0	.0	.0	3.5
S	.1	.1	.1	.6	1.0	.9	.4	.2	.0	.1	.0	7.5
SW	.1	.1	.2	1.3	2.5	1.6	1.0	.4	.0	.1	.0	11.9
W	.0	.0	.0	.3	1.3	.8	.1	.1	.0	.0	.0	6.1
NW	.0	.1	.0	.3	.7	.4	.2	.1	.1	.1	.0	5.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.1	.1	.2	.0	.0	.0	.0	.0	1.1
TOT OBS	3	6	14	74	138	94	34	18	4	3	5	879
TOT PCT	.4	.9	1.1	9.7	10.7	7.3	4.2	1.4	.3	.2	.6	64.2

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>3	>2	>1	>1/2	>1/4	>50YD	>0
>8000	.3	.3	.3	.3	.3	.3	.3	.3
>5000	1.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9
>3500	4.8	5.9	6.0	6.0	6.0	6.0	6.0	6.0
>2000	10.4	12.8	13.3	13.3	13.3	13.3	13.3	13.3
>1000	18.9	23.1	23.8	23.8	23.8	23.8	23.8	23.8
>600	22.9	28.2	29.4	29.3	29.3	29.3	29.3	29.3
>300	23.4	29.3	30.3	30.7	30.7	30.7	30.7	30.7
>150	23.7	29.8	31.0	31.1	31.1	31.1	31.1	31.1
>0	23.7	30.0	31.3	31.3	31.3	31.3	31.3	31.3
TOTAL	311	393	410	412	412	412	412	412

TOTAL NUMBER OF OBS: 1310

PCT FREQ NH <5/8: 68.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
20.3	14.9	14.2	10.7	7.6	6.2	7.3	6.8	11.5	.2	1360

PERIOD: (PRIMARY) 1917-1976
(OVER-ALL) 1857-1976

MAY

AREA 0011 PORTO ALEGRE
30.63 48.94

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.3
	TOT %	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.3
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2
	NO PCP	.1	.1	.1	.1	.0	.0	.1	.0	.0	.0	.0	.4
	TOT %	.1	.1	.1	.1	.0	.0	.1	.0	.0	.0	.0	.6
2<2	PCP	.0	.1	.2	.2	.1	.0	.0	.0	.0	.0	.0	.7
	NO PCP	.2	.4	.3	.1	.1	.2	.0	.1	.0	.1	.1	1.4
	TOT %	.2	.5	.5	.3	.2	.2	.0	.1	.0	.1	.1	2.1
5<10	PCP	.5	.8	.4	.2	.5	.8	.6	.4	.0	.1	.1	4.4
	NO PCP	3.0	3.6	1.7	2.0	2.9	3.7	2.6	1.8	.0	.2	.2	21.5
	TOT %	3.5	4.4	2.1	2.2	3.4	4.5	3.2	2.2	.0	.2	.2	25.9
10+	PCP	.1	.3	.1	.4	.1	.5	.0	.0	.0	.1	.1	1.4
	NO PCP	9.4	15.6	8.5	8.9	7.6	13.0	7.1	4.4	.0	.9	.9	69.6
	TOT %	9.4	15.9	8.6	9.3	7.7	13.5	7.1	4.4	.0	.9	.9	71.1
TOT OBS													1812
TOT PCT													18.2 21.1 8.4 8.9 11.4 10.4 10.4 6.9 .0 1.3 100.0

TABLE 9

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

VSBY (MM)	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	.1	.1
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.3
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.1	.0	.0	.0	.1	.1	.0	.0	.3	.3
	11-21	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.4	.4
	22+	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	.2
	TOT %	.1	.2	.1	.1	.0	.2	.1	.1	.0	.0	.9	.9
2<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.0	.1	.1	.2	.1	.1	.0	.1	.0	.1	.7	.7
	11-21	.1	.3	.3	.2	.1	.1	.0	.0	.0	.1	1.1	1.1
	22+	.0	.1	.1	.1	.1	.2	.0	.0	.0	.0	.7	.7
	TOT %	.2	.6	.5	.5	.4	.3	.1	.1	.0	.1	2.7	2.7
5<10	0-3	.1	.2	.1	.1	.2	.1	.1	.3	.0	.2	1.3	1.3
	4-10	.8	.7	.9	.9	1.0	.7	.6	.6	.0	.0	6.3	6.3
	11-21	1.7	1.9	.4	.7	.6	1.4	.8	.5	.0	.0	7.9	7.9
	22+	.4	.6	.1	.1	.4	1.3	.9	.4	.0	.0	4.1	4.1
	TOT %	3.0	3.3	1.5	1.7	2.4	3.4	2.1	1.8	.0	.2	19.6	19.6
10+	0-3	.6	.6	.6	.7	.6	.6	.4	.3	.0	1.7	6.1	6.1
	4-10	4.8	8.3	3.3	4.6	4.0	4.4	2.4	2.7	.0	.0	32.4	32.4
	11-21	4.7	7.2	2.4	2.2	3.6	6.3	2.3	1.9	.0	.0	30.4	30.4
	22+	.9	1.1	.2	.4	.4	2.6	1.7	.4	.0	.0	7.6	7.6
	TOT %	10.9	19.2	6.5	7.9	8.4	13.8	6.8	5.3	.0	1.7	76.5	76.5
TOT OBS													2801
TOT PCT													14.2 19.4 8.7 10.2 11.2 17.8 9.2 7.2 .0 2.0 100.0

MAY

PERIOD: (MAY) 1912-1976
(OVER-ALL) 1957-1976

AREA 0011 PORTO ALEGRE
30.85 48.9W

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	300 399	400 499	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	.3	.3	.3	4.2	8.4	6.9	3.9	1.5	.0	.0	29.9	74.1	332
0600	.3	.3	1.8	6.2	11.4	9.3	4.1	.9	.0	.6	30.8	69.2	341
1200	.6	.3	1.8	3.6	11.5	7.1	4.1	1.5	.9	.0	33.3	66.7	339
1800	.3	.9	.9	5.8	9.2	9.2	3.8	1.7	.3	.3	32.4	67.6	346
TOT	5	6	16	74	138	97	34	19	4	3	416	942	1358
PCT	.4	.4	1.2	5.4	10.2	7.1	4.0	1.4	.3	.2	30.6	69.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1/2	2/3	3/4	4/5	5/8	10+	TOTAL OBS
0000	.3	.0	.8	3.0	21.3	74.4	1177		
0600	.3	.0	1.0	2.2	18.9	77.7	790		
1200	.6	.1	1.0	3.0	20.4	74.9	1182		
1800	.3	.0	.6	2.2	16.7	80.2	773		
TOT	14	1	33	103	764	2973	3892		
PCT	.4	0	.9	2.6	19.7	76.4	100.0		

TABLE 12

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

HOUR (GMT)	<1/2	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000	.3	.9	6.6	21.3	72.1	319
0600	.3	2.7	11.0	21.3	67.7	328
1200	.6	3.1	10.2	29.5	64.3	323
1800	.3	2.1	9.3	24.0	66.6	338
TOT	5	29	122	302	884	1310
PCT	.4	2.2	9.3	23.1	67.6	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
50/64	.0	.0	.0	.1	.1	.0	.0	.0	3	.2
75/79	.0	.0	.0	.3	.4	.9	1.2	.4	42	3.1
70/74	.0	.0	.0	.4	3.4	6.1	9.8	5.4	344	25.1
65/69	.0	.0	.4	2.8	4.9	9.2	11.6	11.0	374	41.9
60/64	.0	.0	.4	1.2	6.3	3.0	5.0	2.8	283	20.8
55/59	.0	.0	.1	.4	1.8	2.4	2.3	.3	106	7.7
50/54	.0	.0	.0	.0	.3	.1	.7	.1	16	1.2
45/49	.0	.0	.0	.0	.0	.0	.1	.1	1	.1
TOTAL	0	0	11	73	264	323	421	277	1371	100.0
PCT	.0	.0	.8	5.3	19.4	23.6	30.7	20.2		

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	.1	.0	.0
.3	1.1	.2	.2	.2	.4	.1	.3	.0	.0
3.2	6.1	1.8	1.8	1.6	2.3	1.1	3.0	.0	.2
3.4	6.0	4.9	4.9	4.5	6.4	3.9	1.8	.0	.3
1.1	1.2	1.1	1.9	4.4	6.3	3.4	.9	.0	.3
.3	.2	.2	.3	.8	3.2	2.0	.8	.0	.1
.0	.0	.0	.0	.0	.4	.7	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.4	20.1	8.2	9.1	11.7	19.2	11.2	6.9	.0	1.1

TABLE 15

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

HOUR (GMT)	MAX	95%	90%	50%	30%	15%	MIN	MEAN	TOTAL OBS
0000	79	75	73	64	57	54	49	63.9	2407
0600	78	74	72	69	57	53	51	63.5	1398
1200	85	77	74	67	58	54	48	67.0	2430
1800	82	79	76	68	59	55	50	67.9	1371
TOT	85	77	74	67	58	54	48	64.6	7606

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	3.9	17.6	23.3	33.8	19.4	7.9	3.91	331	
0600	.0	3.8	14.0	23.1	29.9	27.2	8.0	33.8	338	
1200	.0	6.1	14.2	22.9	30.6	22.3	7.9	36.3	363	
1800	.0	6.3	23.6	25.4	28.2	12.3	7.6	31.9	319	
TOT	0	19	57.0	33.3	43.4	28.9	7.8	14.11		

MAY

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1857-1976

AREA 0011 PORTO ALEGRE
30.85 48.9W

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	69	53	37	61	65	69	73	77	81	TOT	W FOG	NO FOG
	52	36	20	84	68	72	76	80	84			
11/13	.0	.0	.0	.0	.0	.1	.1	.0	.1	4	.0	.2
9/10	.0	.0	.0	.0	.0	.1	.1	.0	.1	2	.0	.1
7/8	.0	.0	.0	.0	.0	.3	.3	.3	.1	16	.1	.9
6	.0	.0	.0	.0	.2	.1	.4	.2	.0	13	.1	.7
5	.0	.0	.0	.0	.2	.4	.3	.3	.0	23	.0	1.4
4	.0	.0	.0	.2	.7	1.0	.8	.1	.0	43	.1	2.6
3	.0	.0	.1	.6	1.0	.8	.2	.0	.0	41	.1	2.4
2	.0	.0	.1	.5	2.1	3.4	1.3	.1	.0	122	.2	7.3
1	.0	.0	.1	.7	2.7	3.4	1.0	.1	.0	132	.2	7.8
0	.1	.0	.4	1.9	4.6	6.7	1.7	.0	.0	219	.4	13.0
-1	.0	.1	.4	1.2	4.3	3.3	1.8	.0	.0	183	.4	10.7
-2	.0	.1	.4	2.6	4.6	3.8	.8	.0	.0	199	.8	11.2
-3	.0	.0	.7	1.2	3.2	2.3	.3	.0	.0	129	.4	7.3
-4	.0	.1	.3	2.4	3.3	1.3	.2	.0	.0	137	.2	8.1
-5	.1	.1	.6	1.6	3.1	.2	.0	.0	.0	93	.1	3.3
-6	.0	.1	.3	1.3	1.4	.3	.1	.0	.0	63	.0	3.8
-7-8	.0	.4	1.1	2.3	1.9	.2	.0	.0	.0	100	.0	6.1
-9/-10	.1	.6	1.2	1.1	.6	.1	.0	.0	.0	59	.0	3.6
-11/-13	.1	.4	1.7	.8	.2	.0	.0	.0	.0	46	.1	2.7
-14/-16	.1	.4	.1	.0	.0	.0	.0	.0	.0	9	.0	.3
-17/-19	.1	.0	.0	.1	.1	.0	.0	.0	.0	3	.0	.2
-20/-22	.0	.0	.1	.1	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	6	37	126	298	432	560	156	21	4	1640	3.2	1388
PCT	.4	2.3	7.7	16.2	34.1	26.3	9.3	1.3	.2	100.0	3.2	96.8

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

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

HGT	N					PCT	NE					PCT	
	1-3	4-10	11-21	22-33	34-67		1-3	4-10	11-21	22-33	34-67		
<1	.0	.0	.0	.0	.0	.0	.2	.8	.7	.0	.0	.0	1.2
1-2	.0	1.9	1.3	.0	.0	3.2	.8	4.8	2.2	.0	.0	.0	7.4
3-4	.0	1.7	3.0	.0	.0	3.3	.0	2.3	3.4	.4	.0	.0	6.3
5-6	.0	.3	1.1	.0	.0	1.4	.0	.3	3.2	.4	.0	.0	4.0
7	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.8	.0	.0	1.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.8
10-11	.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
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.7	6.4	.8	.0	11.9	.8	8.2	10.3	2.2	.0	.0	21.3

HGT	E					PCT	SE					PCT	
	1-3	4-10	11-21	22-33	34-67		1-3	4-10	11-21	22-33	34-67		
<1	.4	.2	.4	.0	.0	.7	.2	.4	.0	.0	.0	.0	4.3
1-2	.0	3.2	.4	.0	.0	3.8	.0	3.3	.4	.0	.0	.0	4.3
3-4	.0	1.9	1.9	.0	.0	4.0	.0	2.1	1.0	.0	.0	.0	3.1
5-6	.0	.2	1.1	.0	.0	1.3	.0	.7	.8	.1	.0	.0	1.6
7	.0	.0	.4	.0	.0	.4	.0	.0	.3	.0	.0	.0	.3
8-9	.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
12	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.3	3.8	.2	.0	10.1	.8	6.3	2.7	.1	.0	.0	10.2

PERIOD: (OVER-ALL) 1963-1976

MAY
TABLE 18 (CONT)

AREA 0011 PORTO ALEGRE
30.63 48.9W

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

HGT	S							PCT	SH							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.2	.8	.0	.0	.0	.0	1.0	.2	.9	.0	.0	.0	.0	1.1		
1-2	.0	1.9	.9	.0	.0	.0	2.8	.0	1.9	.0	.0	.0	.0	2.5		
3-4	.2	1.9	1.9	.2	.0	.0	4.1	.1	1.3	2.9	.0	.0	.0	4.3		
5-6	.0	.6	1.3	.4	.0	.0	2.5	.0	.8	1.8	.9	.0	.0	3.3		
7	.0	.0	.2	.4	.0	.0	.3	.0	.2	.4	.3	.0	.0	.9		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.3	.1	.0	1.3		
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.8	1.3	.1	.0	2.2		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2	.0	.3		
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3	.2	.0	.6		
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	.4	3.1	4.7	1.2	.0	.0	11.4	.3	4.8	7.4	4.0	.3	.0	16.8		

HGT	M							PCT	MH							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.8	.4	.0	.0	.0	.0	1.0	1.2	.0	.3	.0	.0	.0	1.2		
1-2	.2	2.0	.2	.0	.0	.0	2.3	.0	1.3	.3	.0	.0	.0	1.7		
3-4	.0	1.8	.5	.0	.0	.0	2.2	.2	.8	1.3	.3	.0	.0	2.8		
5-6	.0	.2	.6	.6	.0	.0	1.3	.0	.2	1.3	.0	.0	.0	1.5		
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
8-9	.0	.0	.0	.0	.2	.0	.2	.0	.0	.2	.0	.0	.0	.2		
10-11	.0	.0	.0	.4	.4	.2	.7	.0	.0	.0	.0	.0	.0	.6		
12	.0	.0	.0	.4	.4	.0	.7	.0	.0	.0	.0	.0	.0	.6		
13-16	.0	.0	.0	.4	.8	.0	1.2	.0	.0	.0	.0	.1	.0	1.1		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.8	4.2	1.4	1.9	1.5	.2	10.0	.4	2.3	3.4	.3	.1	.0	6.3		

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.3	4.3	.2	.0	.0	.0	8.9	
1-2	1.8	20.1	6.3	.0	.0	.0	28.4	
3-4	.4	19.6	15.8	1.6	.0	.0	31.4	
5-6	.0	3.0	11.4	2.4	.0	.0	16.8	
7	.0	.2	3.0	1.2	.0	.0	4.3	
8-9	.0	.0	1.4	1.2	.2	.0	2.8	
10-11	.0	.0	1.0	1.8	.2	.2	3.2	
12	.0	.0	.2	.8	.4	.0	1.4	
13-16	.0	.0	.0	1.2	1.0	.0	2.2	
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	6.7	41.2	39.6	10.9	1.8	.2	100.0	493

PERIOD: (OVER-ALL) 1949-1976

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
40	2.3	10.4	12.9	5.3	2.0	.4	.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	368	3
6-7	.1	1.2	8.0	11.0	5.3	2.6	1.2	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	329	3
8-9	.0	.3	1.3	3.7	3.9	2.3	1.1	.6	1.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	182	7
10-11	.0	.3	.4	.7	.8	.7	.7	.7	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	9
12-13	.0	.0	.4	.3	.4	.0	.0	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	16	8
>13	.0	.0	.0	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
INDET	1.8	1.6	3.9	2.6	1.2	1.3	.3	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	143	4
TOTAL	4.8	14.7	29.0	23.4	14.9	8.2	4.0	2.7	2.8	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	1072	3
PCT	4.2	13.7	27.1	23.7	13.9	7.6	3.7	2.3	2.6	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1912-1975
(OVER-ALL) 1960-1975

JUNE

AREA 0011 PORTO ALEGRE
30.6S 49.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRPL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.4	.7	1.2	.0	.0	.0	.0	4.3	2.0	2.6	3.0	.0	.0	.0	85.6
NE	3.6	.9	.8	.0	.0	.0	.2	3.4	2.8	1.2	2.9	.3	1.6	.0	86.2
E	4.3	3.2	3.2	.0	.0	.0	.4	11.2	5.4	.0	.7	.0	1.4	.7	80.5
SE	9.9	5.6	2.6	.0	.0	.0	.3	18.9	4.7	3.1	1.2	.0	.0	.0	72.5
S	4.3	2.3	.6	.0	.0	.0	.9	6.3	2.9	3.6	.9	.0	.0	.0	84.9
SW	3.0	1.9	.9	.0	.0	.0	.0	3.3	5.1	.3	2.7	.0	.2	.0	86.2
W	3.1	1.2	.7	.0	.0	.0	.0	3.1	1.5	.0	2.1	.0	.3	.0	91.0
NW	4.9	.0	.9	.0	.0	.0	.0	3.8	2.2	1.3	6.3	.0	.0	.0	84.4
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	3.6	.0	7.1	.0	89.3
TOT PCT	3.6	1.7	1.2	.0	.0	.0	.2	6.8	3.2	1.4	2.9	.1	.7	.1	83.0
TOT OBS:	1627														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRPL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0600Z	3.8	1.4	.9	.0	.0	.0	.2	6.4	3.1	2.8	3.3	.0	.7	.2	89.6
0600Z	4.9	1.8	1.3	.0	.0	.0	.0	7.6	3.7	2.7	2.7	.0	.7	.0	82.6
1201Z	2.7	1.9	1.8	.0	.0	.0	.2	3.6	2.3	.0	3.2	.2	1.1	.0	87.4
1802Z	4.1	3.1	.3	.0	.0	.0	.3	8.0	3.4	.3	2.3	.0	.3	.0	86.0
TOT PCT	3.4	1.7	1.2	.0	.0	.0	.2	6.9	3.1	1.4	2.9	.1	.7	.1	84.9
TOT OBS:	1699														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	06	12	18	21		
N	.7	6.2	6.7	3.0	.2	.0	13.7	13.1	14.7	15.1	15.1	14.1	17.2	14.6	14.2	13.6
NE	.8	6.8	8.2	1.7	.2	.0	17.3	13.0	17.8	17.3	17.9	20.3	16.3	16.0	18.6	33.7
E	.3	3.3	3.1	.3	.2	.0	6.6	11.8	8.1	7.6	6.6	10.3	6.0	3.1	6.2	3.6
SE	.7	3.2	3.0	.3	.1	.0	6.6	11.1	7.7	7.9	6.3	2.6	3.9	3.3	6.6	7.1
S	.0	4.2	3.3	.9	.2	.1	9.3	12.3	9.9	9.0	9.7	10.3	9.3	9.3	9.4	13.6
SW	.0	3.3	7.7	4.3	1.2	.1	19.3	16.7	18.3	19.2	19.1	20.3	19.6	20.7	21.3	10.7
W	.3	3.3	3.8	3.2	1.6	.1	12.7	18.8	12.0	12.1	11.3	13.4	13.3	14.0	13.3	6.6
NW	.3	4.1	3.0	1.0	.3	.1	8.9	12.8	7.9	8.2	6.7	6.4	8.6	11.3	8.3	4.3
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	3.4	3.2	.0	3.2	3.1	1.6	2.9
TOT OBS	623	2714	2761	1661	293	33	7483	13.8	1333	992	1336	39	1323	1133	1292	33
TOT PCT	6.3	36.3	36.9	14.2	3.9	.4	100.0	13.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-48				00	06	12	18	21
N	3.1	7.7	4.3	.0	9	13.7	13.1	14.9	15.0	16.0	14.2	
NE	3.3	8.9	4.6	.0	.1	17.3	13.0	17.7	18.0	16.2	19.1	
E	1.9	3.2	1.1	.3	.0	6.6	11.8	7.9	6.7	3.6	6.2	
SE	2.0	3.4	.9	.2	.1	6.6	11.1	7.8	6.2	3.7	6.7	
S	2.3	4.6	1.9	.4	.1	9.3	12.3	9.3	9.7	9.3	9.3	
SW	2.9	7.6	6.1	2.4	.3	19.3	16.7	18.7	18.2	20.1	21.2	
W	1.9	4.2	3.6	2.1	.9	12.7	18.8	12.0	11.4	13.7	13.3	
NW	2.3	4.3	1.7	.3	.2	8.8	12.8	8.0	6.7	10.1	8.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.0					3.0	.0	3.0	3.1	3.2	1.7	
TOT OBS	1710	3283	1811	342	139	7483	13.8	1333	1373	2438	1327	
TOT PCT	22.8	43.9	24.2	7.2	1.9	100.0	13.8	100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1912-1975
(OVER-ALL) 1860-1975

JUNE

AREA 0011 PORTO ALEGRE
30.6S 49.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			46+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	3.5	6.7	37.0	35.1	12.2	3.9	.5	13.4	100.0	2325
06009	3.1	5.7	38.3	35.3	14.1	3.3	.2	13.4	100.0	1379
12015	3.2	4.1	34.5	38.9	14.7	4.2	.3	14.2	100.0	2438
18021	1.7	4.8	36.1	38.0	14.9	4.0	.5	14.2	100.0	1327
TOT	235	398	2714	2741	1061	293	33	13.8		7489
PCT	3.0	5.3	36.3	36.9	14.2	3.9	.4	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & 8	TOTAL	MEAN	OBS	COVER
M	7.3	3.4	4.7	3.8		3.9	149	4.1
NE	8.1	3.1	6.0	4.3		4.1	289	4.1
E	2.0	1.0	2.0	2.6		3.1	309	3.1
SE	1.9	.8	1.6	2.5		3.7	999	3.7
S	3.6	1.8	3.1	3.1		4.7	1999	4.7
SW	4.7	2.4	5.0	3.5		4.3	2799	4.3
W	2.8	1.9	2.3	2.8		4.6	4999	4.6
NW	2.2	.9	1.8	1.4		4.4	6999	4.4
VAR	.0	.0	.0	.0		.0	7999	.0
CALM	.9	.3	.4	.2		2.7	8999	2.7
TOT OBS	379	186	313	283	1161	4.4	1161	4.4
TOT PCT	32.6	16.0	27.0	24.4	100.0			

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <3/8 BY WIND DIRECTION

WIND DIR	000	100	300	600	1000	2000	3000	5000	6500	8000+	NH <3/8	TOTAL
M	.4	.0	.5	.6	1.9	.8	.7	.1	.1	.1	14.4	149
NE	.3	.1	.2	1.1	1.8	1.0	.9	.3	.0	.5	13.4	289
E	.1	.0	.2	.4	1.1	.7	.8	.2	.2	.0	4.1	309
SE	.2	.0	.3	.6	1.4	.2	.5	.2	.1	.0	2.4	999
S	.1	.0	.5	1.0	1.2	.8	.5	.2	.0	.1	6.5	1999
SW	.1	.0	.8	1.7	2.2	.8	1.1	.3	.0	.1	9.9	2799
W	.0	.1	.2	1.1	1.7	.5	.5	.1	.0	.0	5.6	4999
NW	.2	.0	.0	.1	.9	.2	.5	.3	.0	.0	3.7	6999
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7999
CALM	.0	.0	.0	.1	.3	.0	.0	.0	.0	.0	1.8	8999
TOT OBS	19	2	24	79	147	39	69	20	5	7	787	1161
TOT PCT	1.6	.2	2.1	6.8	12.7	5.1	5.3	1.7	.4	.6	63.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>8	>2	>1	>1/2	>1/4	>3000	>0
>6500	.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>5000	2.0	2.8	2.8	2.8	2.8	2.8	2.8	2.8
>3500	3.9	6.0	6.2	6.2	6.2	6.2	6.2	6.2
>2000	9.4	12.7	13.2	13.2	13.2	13.2	13.2	13.2
>1000	16.8	24.7	26.0	26.0	26.1	26.1	26.1	26.1
>600	22.8	30.6	32.5	32.6	32.7	32.9	32.9	32.9
>300	23.2	32.3	34.4	34.6	34.6	34.8	34.9	34.9
>150	23.2	32.4	34.6	34.7	34.8	35.0	35.1	35.1
>0	23.2	32.3	35.5	35.7	35.7	36.3	36.6	36.8
TOTAL	276	391	417	419	420	426	430	432

TOTAL NUMBER OF OBS: 1179

PCT FREQ NH <3/8: 63.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	UBSCD	TOTAL
	21.2	12.9	11.3	9.9	8.2	6.1	6.9	6.9	10.1	1.2	1292

PERIOD: (PRIMARY) 1912-1975
(OVER-ALL) 1960-1975

JUNE

AREA 0011 PORTO ALEGRE
30.65 49.0W

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2
	NO PCP	.4	.4	.1	.0	.0	.1	.1	.1	.0	.0	.0	1.2
	TOT %	.4	.4	.1	.0	.0	.2	.1	.1	.0	.0	.0	1.4
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
	NO PCP	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.1
1<2	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2
	NO PCP	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.3
	TOT %	.0	.0	.2	.1	.1	.1	.0	.0	.0	.0	.0	.5
2<5	PCP	.1	.2	.3	.2	.2	.1	.2	.1	.0	.0	.0	1.4
	NO PCP	.2	.3	.2	.1	.1	.0	.3	.1	.0	.1	.1	1.6
	TOT %	.4	.5	.5	.3	.3	.2	.5	.4	.2	.0	.1	3.0
5<10	PCP	.6	.6	.5	.7	.4	.4	.1	.3	.0	.0	.0	3.6
	NO PCP	4.6	3.2	2.5	1.6	1.3	4.2	2.9	1.9	.0	.1	.1	24.4
	TOT %	5.2	3.8	3.0	2.2	1.7	4.6	3.0	2.2	.0	.1	.1	28.0
10+	PCP	.0	.2	.1	.3	.2	.3	.1	.0	.0	.0	.0	1.2
	NO PCP	12.0	13.5	4.7	3.7	7.3	11.6	6.3	4.4	.0	1.3	1.3	65.8
	TOT %	12.0	13.7	4.8	4.0	7.5	11.9	6.4	4.4	.0	1.3	1.3	67.0
TOT OBS													1024
TOT PCT													100.0

TABLE 9

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

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.2	.2	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.3	.3	.0	.0	.0	.1	.1	.1	.0	.0	.1	1.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.3
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.1	.1	.0	.1	.1	.0	.0	.0	.2	
	TOT %	.1	.1	.2	.1	.1	.1	.1	.1	.0	.0	.1	1.0
2<5	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	.3	.3	.1	.1	.1	.2	.1	.2	.0	.0	.2	
	11-21	.2	.4	.3	.1	.1	.1	.1	.1	.0	.0	.1	
	22+	.2	.1	.1	.2	.1	.3	.2	.1	.0	.0	.1	
	TOT %	.7	.8	.5	.4	.3	.6	.4	.4	.0	.0	.1	4.3
5<10	0-3	.1	.1	.1	.0	.1	.1	.1	.1	.0	.0	.3	
	4-10	1.3	1.3	.8	.8	.8	1.0	.3	.8	.0	.0	7.3	
	11-21	1.6	2.0	1.1	.9	.9	1.4	.6	.6	.0	.0	9.0	
	22+	.8	.7	.3	.2	.2	.8	.9	.4	.0	.0	4.2	
	TOT %	3.8	4.3	2.2	1.9	2.0	3.2	2.1	1.9	.0	.0	.3	21.7
10+	0-3	.3	.3	.2	.4	.4	.4	.3	.3	.0	2.2	5.6	
	4-10	3.5	3.3	2.8	2.1	2.1	3.9	2.6	3.4	.0	.0	28.6	
	11-21	3.3	6.3	1.1	1.2	2.9	6.1	2.9	2.0	.0	.0	28.0	
	22+	1.2	1.1	.8	.2	.6	3.2	2.3	.4	.0	.0	9.3	
	TOT %	12.6	13.3	4.2	3.9	7.0	13.6	8.4	6.3	.0	2.2	71.7	
TOT OBS													3686
TOT PCT													100.0

JUNE

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1860-1973

AREA 0011 PORTO ALFRE
30.65 49.0W

TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	2.4	.0	.7	0.8	13.6	3.1	4.4	1.4	.7	1.0	35.9	64.1	293
0600	1.9	.3	2.2	3.4	10.8	3.2	4.4	.3	.0	1.0	29.3	70.7	313
1200	1.3	.3	2.6	6.3	11.9	7.1	3.4	1.6	.6	.3	38.1	61.9	310
1800	1.0	.0	2.3	3.3	13.2	6.6	3.9	3.6	.3	.0	38.3	61.7	303
TOT	20	2	24	79	191	61	63	21	3	7	433	790	1223
PCT	1.6	.2	2.0	6.5	12.3	3.0	3.2	1.7	.4	.6	33.4	64.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000	.9	.3	1.4	4.2	23.1	70.2	1096
0600	1.3	.4	.7	3.3	21.6	70.7	707
1200	.9	.4	.9	3.4	21.7	72.6	1110
1800	.9	.1	.9	4.3	19.9	73.6	739
TOT	37	12	37	138	609	2667	3720
PCT	1.0	.3	1.0	4.2	21.7	71.7	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NH <5/8 AND 5+	TOTAL OBS
0000	2.3	3.2	13.6	23.9	62.3	280
0600	2.0	3.0	13.2	19.1	67.7	303
1200	1.3	4.7	12.7	27.0	60.3	300
1800	1.0	4.1	11.9	26.8	59.6	292
TOT	20	30	130	290	733	1173
PCT	1.7	4.3	12.8	24.7	62.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.1	.1	.0	.0	2	.2
75/79	.0	.0	.1	.0	.2	.2	.2	.0	9	.7
70/74	.0	.0	.0	.3	1.2	2.3	4.2	2.0	121	10.0
65/69	.0	.0	.1	.7	7.9	6.3	12.3	9.1	393	32.7
60/64	.0	.0	.4	.9	6.3	7.7	9.9	9.2	415	34.4
55/59	.0	.0	.2	.8	2.2	6.0	6.0	2.4	212	17.3
50/54	.0	.0	.1	1.0	1.3	1.4	.3	.3	33	4.4
45/49	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
TOTAL	0	0	10	34	179	291	414	280	1208	100.0
PCT	.0	.0	.8	2.8	14.8	24.1	34.3	23.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
75/79	.2	.1	.1	.1	.0	.1	.0	.1	.0	.0
70/74	4.1	3.2	.3	.4	.3	.3	.0	1.0	.0	.1
65/69	8.0	10.0	2.8	2.3	2.8	2.9	1.3	2.2	.0	.4
60/64	4.9	4.9	3.9	3.2	4.8	6.3	3.7	1.8	.0	.8
55/59	.6	1.3	.9	1.2	2.2	0.2	4.0	1.0	.0	.1
50/54	.1	.0	.1	.1	.6	1.7	1.2	.3	.0	.2
45/49	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
TOTAL	17.9	19.6	9.4	7.3	10.7	17.7	10.3	6.6	.0	1.6

TABLE 15

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

HR	MAX	95%	90%	75%	50%	25%	MIN	MEAN	TOTAL OBS
0000	78	72	70	63	54	30	45	62.3	2220
0600	74	72	70	59	54	30	47	62.2	1376
1200	81	74	72	64	54	30	46	63.4	2421
1800	82	75	72	64	55	31	48	64.0	1301
TOT	82	74	71	63	54	30	45	63.0	7418

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	3.9	12.7	23.2	37.3	22.9	81	332		
0600	.0	1.9	12.0	22.7	35.3	28.2	82	309		
1200	.0	2.3	16.3	23.4	33.1	24.7	81	320		
1800	.0	6.6	14.8	26.1	30.3	18.0	78	272		
TOT	0	43	182	293	422	291	81	1233		

JUNE

PERIOD: (PRIMARY) 1912-1975
(OVER-ALL) 1860-1975

AREA 0011 PORTO ALEGRE
30.65 49.0W

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	45	49	53	57	61	65	69	73	77	81	TOT	% FOG	% FUS
	48	52	56	60	64	68	72	76	80	84			
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	2	.0	.1
11/13	.0	.0	.0	.1	.3	.0	.0	.0	.1	.0	7	.0	.3
9/10	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	2	.0	.1
7/8	.0	.0	.0	.0	.1	.1	.1	.3	.1	.0	11	.0	.8
6	.0	.0	.0	.0	.3	.2	.2	.1	.0	.1	12	.1	.8
5	.0	.0	.0	.1	.7	.5	.6	.3	.0	.0	31	.1	2.1
4	.0	.0	.1	.1	1.1	1.6	.8	.1	.1	.0	56	.1	3.7
3	.0	.0	.1	.2	1.0	1.9	1.8	.1	.0	.0	59	.1	4.0
2	.0	.0	.0	.6	2.8	3.1	1.8	.3	.0	.0	123	.1	8.3
1	.0	.0	.1	1.1	2.0	3.3	1.8	.1	.0	.0	120	.2	8.1
0	.0	.0	.3	.8	3.2	3.9	2.6	.0	.1	.0	160	.3	10.6
-1	.0	.0	.1	1.3	3.0	3.7	1.7	.1	.0	.0	147	.3	9.8
-2	.0	.0	.6	1.8	4.0	2.8	1.8	.3	.0	.0	162	.3	10.9
-3	.0	.0	.6	1.9	2.2	2.2	.6	.0	.0	.0	108	.2	7.3
-4	.0	.1	.3	2.0	2.3	1.3	.3	.0	.0	.0	108	.1	7.2
-5	.0	.1	.8	1.2	2.0	1.3	.2	.1	.0	.0	83	.1	5.7
-6	.0	.0	.2	1.2	1.5	1.0	.1	.0	.0	.0	58	.1	4.0
-7/-8	.0	.2	.9	2.1	2.1	.8	.1	.0	.0	.0	91	.1	6.2
-9/-10	.1	.3	.6	1.2	1.2	.3	.0	.0	.0	.0	34	.0	3.7
-11/-13	.1	.1	.3	1.3	.6	.1	.0	.0	.0	.0	39	.0	2.7
-14/-16	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	4	.0	.3
-17/-19	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	4	.0	.3
TOTAL	2		83	294	454	406	193	28	5	2	1443	2.0	140.7
PCT	.1	.8	3.9	17.6	31.9	28.1	13.5	1.9	.3	.1	100.0	2.0	97.9

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

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

HGT	N					PCT	NE					PCT	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
41	.2	1.9	.8	.0	.0	2.1	.0	3.9	.2	.0	.0	.0	1.1
1-2	.2	1.8	1.7	.0	.0	1.8	.2	3.0	1.3	.0	.0	.0	4.6
3-4	.0	1.7	3.2	.2	.0	7.1	.0	2.4	3.3	.0	.0	.0	3.9
5-6	.0	.0	2.1	.2	.0	2.3	.0	.0	3.3	1.2	.0	.0	4.7
7	.0	.0	.7	1.2	.0	1.9	.0	.0	1.2	1.0	.0	.0	2.2
8-9	.0	.0	.7	1.2	.0	2.0	.0	.0	.2	.4	.0	.0	.7
10-11	.0	.0	.3	.2	.2	.9	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.0	.2	.0	.2	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.1	11.0	3.3	.2	19.1	.2	6.2	10.3	3.1	.0	.0	19.8

HGT	E					PCT	SE					PCT	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
41	.2	1.7	.8	.0	.0	.9	.1	.3	.2	.0	.0	.0	.7
1-2	.0	1.3	.8	.0	.0	1.7	.2	.8	.0	.0	.0	.0	1.1
3-4	.0	1.0	2.3	.0	.0	3.3	.0	1.3	1.6	.0	.0	.0	3.1
5-6	.0	.0	.7	.3	.0	1.2	.0	.6	.3	.0	.0	.0	1.1
7	.0	.0	.2	.0	.0	.2	.0	.0	.7	.0	.0	.0	.7
8-9	.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
12	.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
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.2	3.7	.3	.0	7.3	.4	3.2	3.1	.0	.0	.0	6.7

PERIOD: (OVER-ALL) 1969-1975

JUNE

AREA 0011 PORTO ALEGRE
30.65 49.0W

TABLE 18 (CONT)

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

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.4	.2	.0	.0	.0	.0	.8	.1	.1	.0	.0	.0	.0	.1		
1-2	.0	1.6	1.4	.0	.0	.0	2.1	.0	1.6	.4	.0	.0	.0	2.0		
3-4	.0	.7	1.6	.0	.0	.0	2.3	.0	.6	3.8	.3	.0	.0	4.7		
5-6	.0	.4	1.3	.0	.0	.0	1.7	.0	.3	3.9	.7	.0	.0	5.0		
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	1.7	1.2	.0	.0	2.9		
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.5	.6	.0	.0	1.1		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.6	.0	.0	.9		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.2	.0	.7		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	.2	.2	.2		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0		
TOT PCT	.6	2.9	3.7	.0	.0	.0	7.3	.1	2.6	10.6	4.2	.2	.2	17.9		

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.2	.7	.0	.0	.0	.0	.9	.6	.5	.0	.0	.0	.0	1.1			
1-2	.0	1.2	1.4	.0	.0	.0	1.6	.0	.7	.9	.0	.0	.0	1.7			
3-4	.0	.4	1.6	.7	.0	.0	2.7	.0	.4	.6	.1	.0	.0	1.1			
5-6	.0	.0	.4	.9	.2	.0	1.6	.0	.0	.3	.1	.0	.0	.4			
7	.0	.0	.4	.7	.0	.0	1.3	.0	.0	.1	.6	.0	.0	.6			
8-9	.0	.0	.2	.9	.2	.0	1.4	.0	.0	.0	.1	.0	.0	.1			
10-11	.0	.0	.2	1.4	.0	.0	1.6	.0	.0	.0	.1	.2	.0	.3			
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
13-16	.0	.0	.0	.2	.3	.0	.7	.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	.2	2.6	3.3	4.6	1.0	.0	11.9	.6	1.7	1.9	1.1	.2	.0	93.8			

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	6.4	5.4	.3	.0	.0	.0	12.3	406
1-2	1.3	10.8	5.4	.0	.0	.0	17.7	
3-4	.0	6.6	20.2	1.2	.0	.0	30.0	
5-6	.0	1.2	12.6	3.7	.2	.0	17.7	
7	.0	.2	3.2	4.7	.0	.0	10.1	
8-9	.0	.0	2.0	3.2	.2	.0	5.4	
10-11	.0	.0	1.2	2.2	.3	.0	3.9	
12	.0	.0	.0	.7	.2	.0	1.0	
13-16	.0	.0	.0	1.0	.3	.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	.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	7.9	26.4	47.0	16.7	1.7	.2	100.0	

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.2	7.7	13.8	5.6	2.0	.8	1.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	307	4
6-7	.1	1.0	7.9	7.7	6.2	2.0	1.5	.7	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	230	6
8-9	.1	.2	2.4	4.0	4.7	2.8	.9	.7	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	148	7
10-11	.0	.6	.3	.7	1.5	.9	.7	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	7
12-13	.0	.0	1.0	.8	.2	.2	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	6
13	.0	.0	.0	.0	.0	.0	.1	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	8	17
IMDET	2.6	2.0	1.9	2.6	1.0	.8	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	4
TOTAL PCT	6.0	11.5	27.3	21.3	13.7	6.0	5.2	2.5	1.7	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	886	3

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1854-1975

JULY

AREA 0011 PORTO ALEGRE
30.6S 49.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	FRIG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.9	.6	.0	.0	.0	.0	.0	2.4	1.0	2.8	6.7	.6	2.1	.0	84.5
NE	1.2	1.2	.5	.0	.0	.0	.0	2.9	1.2	1.5	3.1	.3	2.8	.0	86.4
E	3.2	3.3	3.5	.0	.0	.0	.0	11.2	1.2	.0	3.3	.6	.6	.0	83.1
SE	11.6	2.4	2.4	.0	.0	.0	.0	16.4	1.4	.0	2.4	.0	.0	.0	79.7
S	10.4	.9	.8	.0	.0	.0	.0	12.1	3.6	1.0	3.2	.5	.0	.0	79.6
SW	3.0	2.1	1.4	.0	.0	.0	.0	6.5	2.3	1.4	1.9	.0	.4	.0	87.5
W	.3	2.6	1.0	.0	.0	.0	.0	3.9	.4	.0	1.4	.0	1.4	.0	92.8
NW	4.7	1.2	.3	.0	.0	.0	.0	6.2	2.4	1.5	3.6	.0	2.4	.0	83.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2	.0	3.2	.0	.0	.0	.0	3.2	.0	6.5	12.9	.0	3.2	.0	74.2
TOT PCT	3.6	1.8	1.0	.0	.0	.0	.0	6.0	1.6	1.4	4.2	.3	1.3	.0	85.2
TOT OBS:	1878														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	FRIG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	3.8	1.4	1.2	.0	.0	.0	.0	6.2	1.2	2.6	4.2	.2	1.0	.0	84.9
0600	4.4	1.1	.4	.0	.0	.0	.0	6.0	1.6	2.9	3.8	.0	.9	.0	85.1
1200	3.1	1.6	1.4	.0	.0	.0	.0	3.9	1.4	.4	3.1	.4	2.0	.0	85.0
1800	2.8	2.1	.9	.0	.0	.0	.0	5.8	2.1	.0	3.9	.4	1.9	.0	85.9
TOT PCT	3.3	1.6	1.0	.0	.0	.0	.0	6.0	1.6	1.8	4.3	.3	1.3	.0	85.2
TOT OBS:	1929														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18	21
N	.8	3.0	7.0	2.5	.3	.0		16.4	13.9		14.4	15.4	16.4	10.9	18.3	17.3	15.7	16.7
NE	1.0	7.9	10.3	2.5	.2	.0		21.9	13.3		22.3	23.4	22.7	29.9	20.7	19.0	22.8	17.7
E	.4	3.3	2.4	.5	.1	.0		7.8	11.7		8.0	8.3	6.4	11.4	6.1	6.3	6.9	4.3
SE	.5	3.1	2.9	.7	.7	.0		7.3	12.6		7.4	8.0	7.2	3.3	7.6	7.1	7.0	2.1
S	.6	3.9	3.6	1.0	.2	.0		9.2	12.7		11.7	9.3	8.8	8.7	7.6	8.3	9.3	15.3
SW	.8	3.0	6.8	4.6	1.2	.3		18.3	17.6		17.5	17.0	16.3	14.1	18.7	18.6	19.2	20.3
W	.4	2.8	3.1	2.9	1.3	.4		10.9	20.3		9.5	9.3	10.2	14.1	12.3	12.9	10.5	13.1
NW	.5	2.9	2.4	.7	.8	.0		6.9	13.3		3.6	6.6	7.4	3.4	6.6	6.3	6.7	6.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0		3.7	2.6	2.6	2.2	2.0	1.6	1.8	2.1
TOT OBS	347	2934	2789	1137	270	53	7324		14.4		1306	72	1291	46	1292	1142	1267	48
TOT PCT	7.3	34.6	38.0	13.3	3.7	.7		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40					00	03	09	12	15	21
N	2.9	7.9	4.4	1.1	.0		16.4	13.9		15.2	16.2	17.9	15.7
NE	2.5	11.4	6.2	.8	.0		21.9	13.3		22.8	22.9	20.0	22.6
E	1.7	3.3	1.2	.3	.0		7.8	11.7		7.3	8.6	6.2	6.9
SE	1.6	3.8	1.5	.3	.1		7.3	12.6		7.7	7.1	7.4	6.8
S	2.3	4.3	2.2	.4	.1		9.2	12.7		10.7	8.8	8.0	9.3
SW	2.4	6.3	6.2	2.7	.6		18.3	17.6		17.3	18.2	18.6	19.2
W	1.5	3.3	3.1	2.3	.8		10.9	20.3		9.4	10.4	12.6	10.7
NW	1.7	3.2	1.5	.3	.1		6.9	13.3		6.3	7.3	7.3	6.7
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0
CALM	2.4						2.4	.0		3.4	2.3	1.8	1.8
TOT OBS	1646	3200	1915	617	136	7324		14.4		3238	1337	2434	1313
TOT PCT	30.0	43.7	28.1	8.4	1.7		100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1954-1975

JULY

AREA 0011 PORTO ALEGRE
30.63 49.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	3.4	3.3	35.1	36.8	15.0	3.6	.7	14.0	100.0	2238
0600Z	2.5	3.0	33.4	39.8	15.2	3.7	.5	14.4	100.0	1937
1200Z	1.8	4.8	34.8	37.7	18.3	4.0	.9	14.3	100.0	2434
1800Z	1.9	3.1	34.9	38.9	15.4	3.3	.6	14.3	100.0	1815
TOT	1.77	3.70	33.34	37.33	15.37	3.70	.53	14.4		7324
PCT	2.4	3.1	34.8	38.0	15.5	3.7	.7	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	12.8	2.8	6.1	4.2		3.5
E	1.7	.8	1.7	2.1		4.9
SE	.8	.8	1.3	2.7		6.0
S	3.1	1.3	3.3	2.5		4.5
SW	6.1	3.9	3.4	4.2		4.4
W	3.0	1.2	4.2	1.1		4.4
NW	1.0	1.4	1.2	1.0		4.6
VAR	.8	.8	.8	.8		4.0
U.A.M	.8	.2	.3	.3		3.5
TOT OBS	472	200	342	282	1316	4.2
TOT PCT	33.9	13.2	27.5	21.4	100.0	

TABLE 6

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

WIND DIR	CEILING HEIGHTS (FT, NH >4/8)										NH <5/8 ANY HGT	TOTAL OBS
	000	150	300	400	1000	2000	3500	5000	6500	8000+		
N	.6	.0	.2	.8	1.8	.7	.5	.4	.0	.2	11.2	
NE	.9	.0	.2	.9	2.2	1.0	1.1	.5	.2	.1	18.6	
E	.2	.0	.2	.4	1.0	.3	.4	.2	.0	.1	3.6	
SE	.2	.0	.1	.6	1.2	.7	.2	.1	.1	.0	2.2	
S	.2	.0	.3	1.0	1.3	.5	.2	.0	.0	.1	6.0	
SW	.2	.0	.3	1.7	3.0	1.1	.9	.5	.2	.1	11.9	
W	.0	.0	.0	.9	1.3	.8	.9	.2	.0	.1	3.3	
NW	.1	.1	.0	.5	1.3	.5	.1	.0	.0	.0	3.1	
VAR	.0	.0	.0	.0	.3	.5	.1	.0	.0	.0	.0	
U.A.M	.0	.0	.0	.1	.3	.0	.0	.0	.0	.0	1.4	
TOT OBS	32	1	18	92	168	73	66	22	4	8	830	1316
TOT PCT	2.4	.1	1.4	7.0	12.8	5.5	5.0	1.7	.3	.6	63.1	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>8	>2	>1	>1/2	>1/4	>50YD	>0
>OR >8000	.8	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>OR >6000	2.0	2.7	2.9	2.9	2.9	2.9	2.9	2.9
>OR >4000	3.9	7.7	8.0	8.0	8.0	8.0	8.0	8.0
>OR >2000	9.8	13.1	13.6	13.7	13.7	13.7	13.7	13.7
>OR >1000	18.0	24.8	26.1	26.3	26.3	26.3	26.3	26.3
>OR >800	21.8	31.1	33.1	33.3	33.3	33.4	33.4	33.4
>OR >600	22.4	32.3	34.4	34.6	34.6	34.7	34.7	34.7
>OR >400	22.4	32.3	34.3	34.7	34.7	34.8	34.8	34.8
>OR >0	22.7	32.8	35.3	35.6	35.7	36.8	37.1	37.3
TOTAL	302	437	470	473	476	490	495	497

TOTAL NUMBER OF OBS: 1333

PCT FREQ NH <5/8: 62.7

TABLE 7A

PERCENTAGE FREQ OF (CW) CLOUDS (HEIGHTS)

0	1	2	3	4	5	6	7	8	8 OBSCD	TOTAL OBS
22.8	11.6	12.4	8.4	6.9	6.2	7.3	8.3	14.5	1.9	1448

JULY

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1834-1975

AREA 0011 PORTO ALEGRE
30.65 49.0W

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
41/2	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.9
	NO PCP	.9	.7	.0	.1	.1	.1	.2	.1	.0	.1	.1	1.0
	TOT %	.5	.7	.0	.1	.2	.1	.0	.1	.0	.1	.1	2.0
1/2cl	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1
	NO PCP	.1	.2	.0	.0	.0	.0	.1	.0	.0	.0	.1	.4
	TOT %	.1	.2	.1	.0	.0	.0	.1	.0	.0	.0	.1	.5
1c2	PCP	.0	.1	.0	.0	.1	.2	.0	.1	.0	.0	.0	.5
	NO PCP	.0	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	.5
	TOT %	.0	.1	.0	.1	.2	.2	.0	.1	.0	.0	.0	.6
2c5	PCP	.1	.1	.1	.4	.2	.2	.0	.0	.0	.0	.0	1.2
	NO PCP	.1	.5	.2	.4	.1	.5	.1	.1	.0	.1	.1	1.7
	TOT %	.5	.6	.3	.5	.3	.7	.1	.1	.0	.1	.1	2.9
3c10	PCP	.3	.3	.5	.3	.7	.7	.2	.5	.0	.0	.0	3.5
	NO PCP	5.8	7.5	4.5	1.3	2.5	3.0	2.8	1.2	.0	.0	.0	24.2
	TOT %	6.2	8.0	5.0	1.6	3.1	4.5	2.3	1.3	.0	.0	.0	27.7
10+	PCP	.0	.1	.1	.1	.2	.2	.1	.1	.0	.0	.0	.4
	NO PCP	10.9	15.3	4.3	3.1	6.3	13.1	6.7	2.9	.0	.0	.0	49.6
	TOT %	10.9	15.5	4.5	3.2	6.5	13.3	6.8	3.0	.0	.0	.0	50.0
TOT OBS													1877
TOT PCT		18.0	25.1	6.9	5.5	10.4	18.8	9.2	4.5	.0	1.7	100.0	

TABLE 9

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

VISBY (MM)	SPEED KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
41/2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.3	.3
	4-10	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0
	11-21	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.4	.5	.1	.1	.1	.1	.0	.1	.0	.0	.1	1.0
1/2cl	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
	22+	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2
	TOT %	.1	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.5
1c2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2
	11-21	.1	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	.5
	22+	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3
	TOT %	.2	.3	.1	.1	.3	.2	.0	.0	.0	.0	.1	1.1
2c5	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.3
	4-10	.1	.2	.1	.1	.2	.1	.1	.2	.0	.0	.0	1.1
	11-21	.2	.2	.1	.3	.2	.3	.1	.1	.0	.0	.0	1.5
	22+	.0	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	.4
	TOT %	.4	.5	.2	.3	.3	.4	.2	.3	.0	.0	.1	3.3
3c10	0-3	.3	.3	.1	.1	.2	.1	.0	.1	.0	.0	.5	1.5
	4-10	1.3	1.7	.9	.8	1.1	1.2	.6	.7	.0	.0	.0	6.3
	11-21	2.9	3.3	.5	.5	.8	1.4	.6	.6	.0	.0	.0	10.1
	22+	.0	.0	.2	.2	.3	1.2	.9	.1	.0	.0	.0	4.6
	TOT %	4.7	6.2	1.6	1.6	2.3	4.0	2.1	1.3	.0	.0	.5	24.4
10+	0-3	.5	.7	.4	.3	.3	.4	.3	.3	.0	1.6	5.0	5.0
	4-10	4.3	6.4	2.4	2.3	2.7	3.3	2.3	1.8	.0	.0	.0	25.7
	11-21	4.9	6.8	1.3	1.4	2.5	6.2	2.7	1.0	.0	.0	.0	26.7
	22+	1.2	1.4	.2	.2	.6	4.4	2.9	.3	.0	.0	.0	11.2
	TOT %	10.9	15.2	4.2	4.3	6.1	14.3	8.2	3.5	.0	1.6	100.0	68.6
TOT OBS													2993
TOT PCT		16.7	22.7	6.3	6.3	9.4	19.7	10.9	5.3	.0	2.3	100.0	

JULY

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1854-1975

AREA 0011 PORTO ALEGRE
30.63 49.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND OCCURRENCE OF NM <3/8 BY HOUR

HRUR (GMT)	000	100	200	300	400	1000	2000	3000	4000	5000	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
06003	3.1	.0	.6	6.7	10.1	3.1	4.2	1.7	.0	1.1	32.6	67.4	356	
06009	1.9	.0	1.0	3.0	12.4	2.8	4.7	.9	.6	.3	30.4	69.6	322	
12015	2.6	.0	1.7	8.6	12.4	6.9	6.3	1.7	.6	.6	41.4	58.6	348	
18021	1.9	.3	1.1	6.3	13.3	7.3	4.6	2.2	.3	.3	38.6	61.4	370	
TOT	33	2	18	94	169	78	69	23	6	9	301	699	1396	
PCT	2.4	.1	1.3	6.7	12.1	5.6	4.9	1.6	.4	.6	35.9	64.1	100.0	

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
06003	1.3	.6	1.4	3.3	26.9	67.1	1207
06009	1.3	.1	1.2	4.4	23.3	67.4	614
12015	1.8	.7	.8	4.4	23.3	69.0	1202
18021	1.8	.4	1.3	3.0	23.3	70.1	824
TOT	65	19	48	194	993	2766	6047
PCT	1.6	.5	1.2	3.8	24.6	68.3	100.0

TABLE 12

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

HRUR (GMT)	<150	<600	<1000	1000+	NM <3/8 AND 3+	TOTAL OBS
06003	3.3	3.9	12.3	22.4	63.1	335
06009	2.0	4.0	11.2	21.1	67.7	303
12015	2.7	4.7	14.3	26.7	57.0	337
18021	2.0	3.9	12.3	23.2	59.3	358
TOT	33	35	175	330	828	1333
PCT	2.5	4.1	13.1	24.8	62.1	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 PRG
60/64	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
70/76	.0	.0	.1	.1	.2	1.2	1.0	1.1	51	3.6
80/89	.0	.1	.2	1.4	3.0	11.1	7.1	39.0	350	24.8
90/94	.0	.1	1.6	4.3	6.8	14.0	11.7	54.5	348	28.7
95/99	.0	.1	1.6	3.8	3.7	6.7	3.4	34.1	242	24.2
99/99	.0	.0	.3	1.9	1.7	3.1	.0	11.9	7.8	7.8
45/49	.0	.0	.1	.1	.1	.1	.4	11	11	.6
TOTAL	9	3	30	169	290	307	388	1409	100.0	
PCT	.0	.0	.4	3.9	13.0	20.6	36.0	27.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
70/76	1.4	.8	.3	.1	.2	.6	.3	.3	.0	.1
80/89	6.6	9.3	1.3	1.1	.9	1.2	1.0	1.1	.0	.3
90/94	3.9	12.0	4.3	2.9	3.3	3.9	2.0	1.7	.0	.6
95/99	1.7	3.1	1.3	1.0	1.7	8.0	3.8	1.0	.0	.3
99/99	.0	.1	.1	.3	1.3	3.7	1.7	.4	.0	.1
45/49	.0	.0	.0	.0	.3	.2	.3	.0	.0	.0
TOTAL	17.6	25.2	7.4	5.3	9.9	19.1	9.0	4.6	.0	1.6

TABLE 15

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

HRUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
06003	74	71	68	61	51	48	43	60.3	2243
06009	80	78	68	60	56	47	43	59.9	1341
12015	82	73	70	62	52	47	40	61.4	2407
18021	74	73	71	62	52	49	45	62.0	1301
TOT	82	72	69	61	51	46	47	60.9	7296

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	70-79	80-89	90-100	MEAN	TOTAL OBS
06003	.0	4.0	10.7	21.8	34.0	27.3	62	403
06009	.0	3.3	10.8	18.6	38.3	30.9	63	323
12015	.0	3.8	11.9	18.9	38.1	29.4	62	371
18021	.0	4.4	14.8	22.3	33.1	23.4	60	342
TOT	0	36	173	297	320	403	62	1449

JULY

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1854-1975

AREA 0011 PORTO ALEGRE
30.6S 49.0W

TABLE 17

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

AIR-SEA TMP DIF	45	49	53	57	61	65	69	73	77	81	TOT	N	NO
	48	32	36	60	64	68	72	76	80	84		PDG	PDG
14/16	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	2	.0	.1
11/13	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	2	.0	.1
9/10	.0	.0	.0	.0	.1	.4	.0	.1	.0	.0	10	.0	.6
7/8	.0	.1	.1	.2	.2	1.0	.2	.1	.0	.0	31	.1	1.7
6	.0	.0	.1	.1	.5	.8	.3	.1	.0	.0	24	.0	1.3
5	.0	.0	.2	.2	.8	1.1	.8	.1	.0	.0	31	.1	2.9
4	.0	.0	.4	.8	2.7	1.3	.8	.1	.0	.0	106	.2	6.1
3	.0	.0	1.3	2.6	1.4	.1	.1	.0	.0	.0	103	.2	5.8
2	.0	.1	.5	2.4	2.3	2.0	.7	.1	.1	.0	134	.2	8.8
1	.0	.1	.5	2.3	3.2	2.9	.6	.0	.0	.0	138	.7	8.6
0	.0	.3	.7	3.1	3.8	2.4	.9	.0	.0	.0	190	.6	10.4
-1	.0	.1	1.0	2.2	2.2	2.2	.7	.1	.0	.0	144	.8	7.7
-2	.0	.2	1.2	2.3	2.3	2.2	.2	.0	.0	.0	150	.5	8.3
-3	.0	.2	.7	.9	1.8	1.4	.3	.0	.0	.0	89	.2	3.1
-4	.0	.4	1.4	1.3	2.2	.9	.1	.0	.0	.0	109	.1	6.3
-5	.1	.4	1.0	.9	1.9	.3	.1	.0	.0	.0	83	.2	4.6
-6	.1	.2	.8	1.0	1.2	.4	.0	.0	.0	.0	52	.1	3.6
-7/-8	.2	.3	1.4	1.8	1.3	.1	.0	.0	.0	.0	87	.2	3.1
-9/-10	.1	.6	1.2	1.8	.8	.0	.0	.0	.0	.0	71	.1	4.1
-11/-13	.1	.4	1.1	1.3	.0	.0	.0	.0	.0	.0	33	.1	3.0
-14/-16	.0	.1	.6	.1	.0	.0	.0	.0	.0	.0	13	.0	.8
-17/-19	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
-20/-22	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	8	62	223	418	313	363	99	11	1	1	1700	73	1023
PCT	.5	3.7	13.1	24.6	30.2	21.4	3.8	.8	.1	.1	100.0	4.4	93.6

PERIOD: (COVER-ALL) 1903-1975

TABLE 18

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

MGT	NE					PCT	SE					PCT
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
01	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7
1-2	.0	.0	.0	.0	.0	2.1	.2	2.8	1.0	.0	.0	3.0
3-4	.0	1.7	1.8	.0	.0	3.3	.2	3.3	7.4	.0	.0	10.9
5-6	.0	.0	2.2	.0	.0	2.2	.0	.0	4.6	.4	.0	3.9
7	.0	.0	1.8	.0	.0	2.4	.0	.0	2.0	.8	.0	2.6
8-9	.0	.0	.0	.4	.0	.4	.0	.0	1.4	.8	.0	2.2
10-11	.0	.0	.2	.2	.0	.4	.0	.0	.6	.4	.0	.7
12	.0	.0	.2	.2	.0	.4	.0	.0	.4	.4	.0	.8
13-14	.0	.0	.2	.2	.0	.4	.0	.0	.2	1.0	.0	1.2
15-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22-23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29-31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
32-33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
34-36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
37-39	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
40-42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
43-45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
46-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
51-53	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
54-56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
57-59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
60-62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
63-65	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
66-68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
69-71	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
72-74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
75-77	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
78-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
81-83	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
84-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87-89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90-92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.1	10.1	2.2	.0	16.4	.4	8.6	17.6	3.2	.0	29.9

MGT	SE					PCT	SE					PCT
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
01	.0	.0	.0	.0	.0	.8	.0	.0	.2	.0	.0	.2
1-2	.0	2.0	.2	.0	.0	2.1	.6	1.4	.2	.0	.0	2.2
3-4	.0	1.1	1.4	.0	.0	2.5	.0	.7	.8	.0	.0	1.8
5-6	.0	.2	.7	.2	.0	1.1	.0	.0	.8	.0	.0	.8
7	.0	.0	.4	.0	.0	.4	.0	.2	.2	.0	.0	.4
8-9	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.2
10-11	.0	.0	.1	.1	.0	.2	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29-31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
32-33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
34-36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
37-39	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
40-42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
43-45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
46-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
51-53	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
54-56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
57-59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
60-62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
63-65	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
66-68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
69-71	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
72-74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
75-77	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
78-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
81-83	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
84-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87-89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90-92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.8	3.0	.3	.0	7.2	.6	2.3	2.4	.8	.0	5.4

PERIOD: (OVER-ALL) 1963-1975

JULY

AREA 0011 PORTO ALEGRE
30.6S 47.0W

TABLE 18 (CONT)

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

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
1-2	.2	2.2	.2	.0	.0	.0	2.6	.0	1.7	.0	.0	.0	.0	.0	1.7	
3-4	.0	1.3	1.2	.2	.0	.0	2.6	.0	.9	2.4	.2	.0	.0	.0	3.5	
5-6	.0	.0	1.7	.3	.0	.0	2.2	.0	.2	1.2	.6	.0	.0	.0	2.0	
7	.0	.0	.2	.4	.0	.0	.6	.0	.0	1.9	2.4	.0	.0	.0	4.2	
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	1.2	.8	.0	.0	.0	2.0	
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.4	.0	.0	.0	.0	.7	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	4.0	3.3	1.8	.0	.0	9.3	.4	3.3	7.3	4.2	.6	.0	.0	13.9	

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.0	.2	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0	.0	.2		
1-2	.0	.7	.0	.0	.0	.0	.7	.2	.9	.2	.0	.0	.0	.0	1.3		
3-4	.0	.7	.0	.4	.0	.0	2.0	.0	.3	.4	.0	.0	.0	.0	1.0		
5-6	.0	.2	1.2	1.0	.0	.0	2.3	.0	.0	.2	.2	.0	.0	.0	.4		
7	.0	.2	.9	.7	.0	.0	1.8	.0	.0	.2	.3	.0	.0	.0	.3		
8-9	.0	.2	.1	.2	.2	.0	.7	.0	.0	.0	.2	.0	.0	.0	.2		
10-11	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	2.4	3.0	2.8	.7	.0	9.0	.6	1.3	1.0	.7	.0	.0	.0	3.6		

HIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.7	3.3	.2	.0	.0	.0	6.2	6.2
1-2	1.9	10.0	3.3	.0	.0	.0	21.2	21.2
3-4	.6	9.6	10.1	.0	.0	.0	29.0	29.0
5-6	.0	1.7	12.3	3.3	.0	.0	17.7	17.7
7	.0	.4	7.3	3.2	.0	.0	12.9	12.9
8-9	.0	.2	3.3	2.3	.2	.0	6.3	6.3
10-11	.0	.0	1.3	1.3	.0	.0	3.1	3.1
12	.0	.0	.9	.6	.4	.0	1.3	1.3
13-16	.0	.0	.2	1.0	.2	.0	1.3	1.3
17-19	.0	.0	.0	.0	.4	.0	.4	.4
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.2	.0	.2	.2
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.2	31.2	47.3	13.0	1.3	.0	100.0	520

PERIOD: (OVER-ALL) 1969-1975

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	
<1	1.4	6.7	12.1	6.7	2.8	1.2	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	366	4
1-2	.0	1.8	6.5	10.8	3.3	4.6	1.6	.8	.7	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	333	6
3-4	.0	.3	1.8	3.0	3.3	2.3	1.1	.8	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	187	7
5-6	.0	.2	.3	.4	1.4	1.4	.8	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	8
7	.0	.0	.2	.4	.2	.4	.4	1.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	9
8-9	.0	.0	.0	.0	.1	.1	.2	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	12
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	4
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1083	5
TOT PCT	2.7	12.5	23.3	22.8	17.0	10.7	4.7	3.0	2.4	.4	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1855-1975

AUGUST

AREA 0011 PORTO ALEGRE
30.63 46.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT 03 TIME	PCPN PAST HOUR	THDR LTNG	POG PCPN	POG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG WEA
N	3.0	.7	2.1	.0	.0	.0	.0	3.8	1.5	3.5	4.5	.2	4.9	.0	78.3
NE	4.3	.9	1.2	.0	.0	.0	.0	4.4	1.5	3.1	4.4	.2	4.9	.0	80.0
E	8.2	2.3	4.0	.0	.0	.0	.0	15.5	2.8	1.2	1.6	.6	.9	.0	77.2
SE	7.1	6.5	2.0	.0	.0	.0	.0	15.6	1.1	2.2	3.6	.0	.0	.0	79.0
S	5.0	1.9	4.4	.0	.0	.0	.5	11.8	1.0	1.1	2.2	.0	.0	.0	84.5
SW	3.7	2.1	2.0	.0	.0	.0	.0	7.4	1.5	1.2	3.7	.2	1.0	.0	84.9
W	6.2	7.1	2.1	.0	.0	.0	.0	14.8	2.5	1.1	3.0	.0	.0	.0	79.4
NW	2.6	.0	4.5	.0	.0	.0	.0	7.2	3.4	1.5	5.3	1.5	1.1	.0	80.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALC	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	22.2	.0	11.1	.0	61.1
TOT PCT	4.7	2.3	2.3	.0	.0	.0	.1	9.3	1.7	2.2	3.6	.3	2.7	.0	80.3
TOT OBS:	1717														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT 03 TIME	PCPN PAST HOUR	THDR LTNG	POG PCPN	POG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG WEA
0000	4.4	2.2	2.4	.0	.0	.0	.0	8.7	.9	3.9	3.1	.0	2.2	.0	81.9
0600	4.7	1.7	2.4	.0	.0	.0	.0	8.3	1.7	3.1	3.1	.0	7.7	2.1	81.3
1200	3.1	2.6	2.6	.0	.0	.0	.2	10.3	1.9	1.3	4.7	.2	1.9	.0	80.1
1800	4.9	2.7	2.0	.0	.0	.0	.0	9.6	2.2	2.2	4.9	.2	4.7	.0	78.4
TOT PCT	4.8	2.3	2.3	.0	.0	.0	.1	9.3	1.7	2.2	3.9	.3	2.7	.0	80.3
TOT OBS:	1796														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT PREQ	MEAN SPD	HOUR (GMT)					
	0-6	7-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.7	4.6	5.6	2.4	.3	.0	13.6	14.7	12.4	14.1	14.4	14.5	14.3	13.2	13.4	8.0
NE	.0	1.7	11.1	3.1	.5	.2	22.3	14.9	22.9	22.2	22.8	20.9	21.1	21.1	24.0	32.1
E	.6	4.3	3.9	.7	.2	.0	9.7	12.3	10.3	10.7	8.8	14.3	9.6	10.3	8.4	17.9
SE	.6	4.2	3.5	.9	.2	.1	9.5	12.6	9.7	9.8	9.9	3.9	9.4	10.0	8.5	6.3
S	.7	3.9	4.1	1.0	.3	.1	10.1	13.1	11.6	9.2	9.7	9.2	10.2	9.0	10.6	12.3
SW	.8	4.4	6.7	3.8	.9	.1	16.6	16.8	18.7	16.1	15.6	11.8	16.0	15.8	17.3	16.7
W	.4	2.4	2.2	2.2	.9	.1	9.1	18.1	7.6	6.3	8.7	10.5	10.0	9.5	10.1	6.0
NW	.6	2.7	2.0	.9	.2	.0	6.4	13.1	4.2	6.8	7.0	5.3	7.1	8.6	5.3	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALC	2.4						2.4		2.4	2.9	3.1	.0	2.1	2.2	1.9	.0
TOT OBS:	327	2301	2769	1033	244	39	4913	14.3	1240	841	1267	38	1241	1019	1227	42
TOT PCT:	7.6	33.3	40.0	13.0	3.3	.6	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT PREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	03	12	18
N	2.3	5.9	4.3	1.0	.1	13.6	14.7	13.0	14.4	13.9	13.2	
NE	3.1	10.0	7.8	1.2	.3	22.3	14.9	22.6	23.0	21.1	24.3	
E	2.3	3.1	1.3	.6	.2	9.7	12.3	10.3	8.9	9.9	9.1	
SE	2.1	4.9	1.7	.5	.1	9.5	12.6	9.7	9.7	9.6	8.5	
S	2.3	3.3	1.8	.6	.2	10.1	13.1	10.6	9.7	9.7	10.7	
SW	2.2	6.7	3.0	2.4	.3	16.6	16.8	17.7	15.5	15.9	17.2	
W	1.4	3.0	2.7	1.7	.3	9.1	18.1	6.0	6.8	9.9	10.0	
NW	1.6	2.7	1.4	.5	.0	6.4	13.1	3.3	7.0	7.8	5.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALC	2.4					2.4		2.6	3.0	2.1	1.8	
TOT OBS:	1360	3019	1860	374	102	6913	14.3	2081	1303	2260	1269	
TOT PCT:	19.7	43.7	26.9	3.3	1.3	100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 7-13-1975
(OVER-ALL) 655-1975

AUGUST

AREA 0011 PORTO ALEGRE
30.85 49.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT PREG	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	2.8	3.3	34.3	39.1	14.1	4.2	.4	14.1	100.0	2081
0600Z	3.0	3.0	33.3	40.6	13.8	3.2	.7	14.2	100.0	1505
1200Z	2.1	3.8	32.7	39.2	16.1	3.4	.7	14.3	100.0	2260
1800Z	1.8	4.3	32.4	42.2	15.5	3.1	.3	14.3	100.0	1269
TOT	1.8	3.8	33.1	39.9	15.0	3.5	.4	14.3		6915
PCT	2.4	3.2	33.3	40.0	15.0	3.3	.6	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCH	TOTAL OBS	MEAN CLOUD COVER
N	6.4	2.6	3.1	4.0		3.9
NE	11.5	3.3	3.4	6.3		3.8
E	2.4	1.9	2.1	3.5		3.2
SE	1.8	1.3	1.9	2.6		3.1
S	3.7	1.9	3.3	2.8		4.4
SW	7.2	2.7	4.5	3.8		3.7
W	2.4	.7	2.3	1.2		3.9
NW	1.8	.4	.8	.9		3.8
VAR	1.8	.9	.0	.0		3.8
CALM	2	.1	.0	.2		3.6
TOT OBS	498	179	294	308	1280	4.1
TOT PCT	38.0	14.2	23.4	24.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/MH 34/8) AND OCCURRENCE OF NH < 9/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH < 9/8 ANY HGT	TOTAL OBS
N	14.9	2.0	.3	.9	1.3	.9	.4	.1	.1	.2	11.4	
NE	14.9	.5	.4	1.5	2.2	1.8	.8	.2	.2	.1	18.6	
E	14.9	.0	.0	1.3	1.8	.6	.4	.2	.1	.1	4.3	
SE	14.9	.2	.0	.8	1.2	.6	.9	.2	.1	.	4.0	
S	14.9	.1	.1	.9	2.0	.8	.4	.1	.0	.0	7.1	
SW	14.9	.1	.4	1.2	1.8	.8	.8	.4	.0	.2	11.3	
W	14.9	.0	.1	.6	1.2	.4	.2	.1	.0	.0	3.1	
NW	14.9	.0	.2	.2	.2	.3	.2	.0	.0	.	2.4	
VAR	14.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	14.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	149	18	23	96	147	77	47	17	5	7	813	1280
TOT PCT	14.4	.5	2.0	7.6	11.6	6.1	3.7	1.3	.4	.6	64.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (MH 34/8) AND VSBY (MH)

CEILING (FEET)	VSBY (MH)							
	>10	>3	>2	>1	>1/2	>1/4	>50YD	>0
>8000	.5	.9	.9	.9	.9	.9	.9	.9
>5000	1.4	2.0	2.3	2.3	2.3	2.3	2.3	2.3
>3500	4.1	3.5	6.0	6.0	6.0	6.0	6.0	6.0
>2000	7.7	11.1	12.1	12.1	12.1	12.1	12.1	12.1
>1000	14.4	20.9	23.0	23.2	23.4	23.4	23.4	23.4
>600	18.1	27.7	30.4	30.9	31.0	31.0	31.0	31.0
>300	18.8	29.4	32.3	32.9	33.0	33.0	33.0	33.0
>150	18.9	29.3	32.8	33.4	33.5	33.5	33.5	33.5
>0	19.0	30.2	33.5	34.1	34.6	34.7	34.9	34.9
TOTAL	243	386	429	437	443	444	447	447

TOTAL NUMBER OF OBS: 1280 PCT FREQ NH < 9/8: 69.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCH	TOTAL OBS
	27.4	18.1	8.8	3.4	7.0	3.3	3.7	7.3	14.8	.9	1373

AUGUST

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1853-1975

AREA 0011 PORTO ALEGRE
30.85 49.0W

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
	NO PCP	.1	.4	.0	.2	.1	.3	.1	.1	.0	.1	.1	1.5
	TOT %	.1	.4	.0	.2	.1	.3	.1	.1	.0	.1	.1	1.5
1/2<1	PCP	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
	NO PCP	.1	.1	.0	.1	.0	.1	.0	.1	.0	.1	.2	.5
	TOT %	.1	.1	.0	.1	.0	.1	.1	.1	.0	.1	.2	.5
1<2	PCP	.0	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	.5
	NO PCP	.1	.2	.1	.1	.0	.2	.0	.0	.0	.0	.1	.8
	TOT %	.2	.4	.2	.2	.1	.2	.1	.0	.0	.0	.1	1.3
2<5	PCP	.1	.2	.4	.2	.1	.0	.0	.1	.0	.0	.1	1.4
	NO PCP	.0	1.4	.4	.2	.1	.1	.2	.3	.0	.1	.1	2.6
	TOT %	1.0	1.6	.8	.4	.2	.1	.2	.4	.0	.1	.2	5.0
5<10	PCP	.0	.7	.0	.7	.0	1.0	.0	.1	.0	.0	.0	3.8
	NO PCP	4.8	7.0	2.1	1.7	1.8	2.2	1.4	1.3	.0	.4	.4	23.0
	TOT %	3.3	7.7	2.1	2.4	2.7	4.2	2.4	1.4	.0	.4	.4	29.3
10<	PCP	.0	.4	.1	.2	.2	.2	.3	.1	.0	.0	.0	1.8
	NO PCP	8.1	18.4	5.8	4.7	7.4	11.9	5.0	1.9	.0	.4	.4	60.4
	TOT %	8.4	18.8	5.9	4.9	7.6	12.2	5.3	2.0	.0	.4	.4	62.2
TOT OBS													1714
TOT PCT		19.0	26.3	9.8	8.1	10.7	17.1	8.2	3.9	.0	1.1	100.0	

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0
	4-10	.2	.3	.1	.1	.1	.0	.1	.1	.0	.0	.0	1.0
	11-21	.0	.2	.1	.0	.0	.0	.0	.0	.1	.0	.0	.4
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
	TOT %	.2	.7	.1	.2	.2	.2	.1	.2	.0	.0	.0	2.1
1/2<1	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	11-21	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.6
1<2	0-3	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2
	4-10	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.6
	11-21	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.5
	22+	.0	.1	.1	.2	.2	.1	.0	.0	.0	.0	.0	.6
	TOT %	.3	.4	.3	.3	.3	.2	.1	.0	.0	.0	.0	2.0
2<5	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	4-10	.0	.4	.3	.3	.1	.1	.1	.3	.0	.0	.0	1.9
	11-21	.0	.0	.0	.2	.2	.2	.1	.2	.0	.0	.0	2.0
	22+	.1	.3	.2	.2	.1	.2	.2	.1	.0	.0	.0	1.5
	TOT %	1.1	1.8	1.1	.6	.4	.5	.4	.3	.0	.0	.0	6.3
5<10	0-3	.1	.1	.2	.2	.1	.1	.1	.1	.0	.0	.0	1.4
	4-10	1.5	1.9	.9	.9	.7	1.0	.4	.4	.0	.0	.0	7.7
	11-21	1.8	3.0	1.4	1.3	1.0	1.4	.8	.6	.0	.0	.0	11.4
	22+	.0	1.4	.3	.4	.5	1.2	1.0	.2	.0	.0	.0	3.9
	TOT %	4.4	5.4	2.8	2.7	2.3	3.7	2.3	1.4	.0	.0	.0	20.4
10<	0-3	.4	.5	.4	.4	.3	.3	.3	.2	.0	.0	.0	4.1
	4-10	3.0	3.6	3.3	2.6	2.9	3.7	1.5	1.8	.0	.0	.0	22.7
	11-21	3.1	6.7	3.3	1.7	3.2	6.0	2.9	.8	.0	.0	.0	27.0
	22+	1.0	1.3	.3	.3	.6	2.9	1.8	.2	.0	.0	.0	8.2
	TOT %	7.6	12.4	6.4	3.0	7.2	13.3	6.3	3.0	.0	.0	.0	42.3
TOT OBS													3633
TOT PCT		13.7	21.8	10.6	8.9	10.4	10.2	9.4	3.1	.0	1.9	100.0	

AUGUST

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1935-1975

AREA 0011 PORTO ALEGRE
30.65 49.0W

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.9	.0	.9	6.7	9.1	4.8	2.1	1.5	.6	.0	26.4	73.6	329
06009	1.5	.9	2.5	5.2	12.0	5.3	2.8	.3	.0	1.2	31.9	68.1	326
12015	1.1	.9	2.6	9.7	12.9	5.7	4.0	2.3	.6	.6	40.3	59.7	350
18021	1.0	.0	1.8	7.7	10.2	8.0	5.2	1.2	.3	.3	36.6	63.4	323
TOT	18	6	26	96	147	79	47	18	5	7	431	879	1330
PCT	1.4	.5	2.0	7.4	11.1	5.9	3.5	1.4	.4	.5	33.9	66.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
00003	2.3	.3	1.3	5.0	27.4	63.7	1070
06009	1.7	.5	1.3	6.9	26.1	63.3	778
12015	2.2	1.0	2.6	7.3	25.3	61.4	1089
18021	2.3	.7	2.6	7.4	26.9	60.1	733
TOT	79	23	74	243	974	2299	3692
PCT	2.1	.6	2.0	6.6	26.4	62.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 3+	TOTAL OBS
00003	1.0	2.2	10.8	18.2	71.0	314
06009	1.6	3.8	16.7	19.9	63.5	312
12015	1.2	3.3	18.6	24.2	57.2	339
18021	1.9	4.1	17.8	21.3	61.0	313
TOT	18	36	205	268	807	1280
PCT	1.4	4.4	16.0	20.9	62.1	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
78/79	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
70/74	.0	.0	.0	.0	.6	1.1	1.6	1.6	63	4.7
69/69	.1	.0	.0	.0	1.8	3.8	10.1	9.2	342	25.3
60/64	.0	.1	.2	1.3	5.3	9.0	11.0	11.6	319	23.7
59/59	.0	.0	.0	1.3	2.6	6.6	8.5	3.0	322	24.0
50/54	.0	.0	.0	1.3	1.7	1.9	1.0	.0	81	6.0
49/49	.0	.0	.0	.0	.1	.6	.1	.1	13	1.0
40/44	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
TOTAL	1	1	3	42	162	306	444	383	1342	100.0
PCT	.1	.1	.2	3.1	12.1	22.8	33.1	28.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

M	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
2.0	1.8	.3	.1	.1	.2	.0	.1	.0	.0
7.0	10.0	2.0	1.3	1.1	1.3	.6	1.7	.0	.1
4.0	10.2	4.6	4.3	3.3	5.9	1.8	1.5	.0	.6
1.2	2.1	2.6	2.0	3.6	7.5	3.9	.6	.0	.3
.2	.2	.2	.0	.9	2.3	1.3	.3	.0	.1
.0	.1	.1	.0	.1	.4	.2	.1	.0	.0
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
15.0	24.4	9.6	8.4	11.4	17.5	8.0	4.2	.0	1.3

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	79	70	68	61	52	48	43	60.3	2070
06009	73	70	68	60	52	48	43	60.1	1301
12015	79	73	70	62	53	49	44	61.8	2221
18021	79	74	71	62	54	50	47	62.4	1239
TOT	79	72	69	61	52	47	43	61.2	6831

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.3	2.7	12.5	21.7	31.5	31.3	63	368
06009	.0	3.2	11.8	20.1	35.1	29.9	52	348
12015	.0	3.4	11.4	22.7	35.5	29.0	62	383
18021	.0	4.8	12.1	28.7	29.6	24.8	61	367
TOT	1	48	164	318	447	397	62	1976

AUGUST

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1855-1975

AREA 0011 PORTO ALEGRE
30.65 49.0M

TABLE 17

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

AIR-SEA TMP DIP	45	49	53	57	61	65	69	73	77	TOT	M FOG	WG FOG
	48	52	56	60	64	68	72	76	80			
14/16	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.3	.2	.2	.0	.1	12	.0	.8
9/10	.0	.0	.1	.0	.4	.3	.3	.2	.0	23	.1	1.4
7/8	.0	.0	.0	.1	.3	.7	.3	.0	.0	29	.2	1.7
6	.0	.0	.0	.3	.9	.3	.1	.1	.0	26	.3	1.4
5	.0	.0	.0	1.0	1.6	.8	.4	.1	.0	62	.4	3.3
4	.0	.0	.1	.7	2.6	1.9	.1	.3	.1	90	.9	3.3
3	.0	.0	.4	1.8	1.6	1.7	.8	.0	.0	104	.1	6.6
2	.0	.1	1.0	2.3	4.0	3.0	1.1	.1	.0	181	.9	11.1
1	.1	.1	.8	2.1	2.6	2.7	1.0	.0	.0	146	.9	9.1
0	.0	.2	1.8	1.7	3.1	3.4	.6	.0	.0	136	.5	9.3
-1	.0	.1	.6	1.3	2.4	2.9	.7	.0	.0	130	.9	8.0
-2	.0	.4	1.3	2.3	2.9	2.1	.4	.0	.0	149	.4	7.2
-3	.0	.1	1.0	1.3	2.2	.4	.3	.0	.0	84	.1	3.3
-4	.0	.7	.9	1.3	2.2	.6	.1	.0	.0	92	.3	3.7
-5	.1	.4	.6	1.3	1.6	.2	.0	.0	.0	66	.0	4.1
-6	.1	.1	.8	.7	1.1	.2	.0	.0	.0	46	.0	3.0
-7/+8	.0	.2	.6	2.3	1.4	.1	.1	.0	.0	74	.0	4.8
-9/+10	.1	.3	.7	1.9	.3	.0	.0	.0	.0	57	.1	3.6
-11/+13	.1	.1	.7	.4	.1	.0	.0	.0	.0	22	.0	1.4
-14/+16	.1	.2	.1	.0	.0	.0	.0	.0	.0	6	.0	.4
-17/+19	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	8	47	172	367	303	341	103	12	3	1337	3.8	1499
PCT	.3	3.0	11.0	23.6	32.4	21.9	6.4	.8	.1	100.0	3.7	96.3

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

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

MGT	N						PCT	NE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.0	.0	.0	.0	.0	.0	1.1	.2	.4	.1	.0	.0	.0	.0	.3
1-2	.0	1.3	.4	.0	.0	.0	1.8	.0	1.7	2.2	.0	.0	.0	.0	3.8
3-4	.2	1.3	2.2	.4	.0	.0	4.0	.0	1.4	8.2	.9	.0	.0	.0	10.3
5-6	.0	.6	2.0	1.1	.0	.0	3.6	.0	.3	6.2	.8	.0	.0	.0	7.4
7	.0	.0	.9	.7	.0	.0	1.6	.0	.4	2.7	.5	.0	.0	.0	3.2
8-9	.0	.0	.4	.4	.0	.0	.8	.7	.0	.3	.2	.0	.0	.0	.9
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.3	.8	.2	.0	.0	1.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.3	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.1	6.0	2.9	.0	.0	13.3	.4	4.8	19.7	3.2	.2	.0	.0	28.3

MGT	E						PCT	SE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.2	.4	.2	.0	.0	.0	.7	.0	.3	.0	.0	.0	.0	.0	.6
1-2	.6	2.4	1.0	.0	.0	.0	4.0	.2	2.3	.3	.0	.0	.0	.0	2.8
3-4	.0	1.6	2.4	.2	.0	.0	4.1	.0	1.1	.3	.0	.0	.0	.0	1.7
5-6	.0	.2	.9	.8	.0	.0	1.1	.0	.3	.8	.0	.0	.0	.0	1.2
7	.0	.0	.2	.0	.0	.0	.2	.0	.3	.3	.0	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
10-11	.0	.0	.2	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.2	.0	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.8	4.8	.4	.0	.0	10.6	.2	4.9	2.1	.0	.0	.0	.0	7.2

PERIOD: (OVER-ALL) 1949-1975

AUGUST

AREA 0011 PORTO ALEGRE
30.05 49.0W

TABLE 18 (CONT)

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

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.4	.2	.0	.0	.0	.0	.4	.2	.1	.0	.0	.0	.0	.7	
1-2	.2	1.6	.7	.0	.0	.0	2.8	.0	2.1	.3	.0	.0	.0	.0	2.4	
3-4	.0	1.6	1.1	.0	.0	.0	2.7	.0	1.2	3.9	.2	.0	.0	.0	3.3	
5-6	.0	.0	2.8	.2	.0	.0	3.0	.0	.2	2.7	.4	.0	.0	.0	2.4	
7	.0	.3	.7	.4	.0	.0	1.4	.0	.2	1.0	1.1	.0	.0	.0	1.9	
8-9	.0	.2	.6	.0	.0	.0	.8	.0	.2	.2	1.7	.0	.0	.0	.7	
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.1	
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	4.0	6.2	.9	.0	.0	11.3	.4	4.1	8.3	4.1	.0	.0	.0	17.0	

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	48+		1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.2	.6	
1-2	.0	.2	.0	.0	.0	.0	.6	.0	.4	.0	.0	.0	.0	.0	.6	1.0	
3-4	.0	.8	1.6	.0	.0	.0	2.1	.0	.8	.2	.0	.0	.0	.0	.9	3.9	
5-6	.0	.0	.9	.7	.0	.0	1.7	.0	.2	.3	.2	.0	.0	.0	.3	2.9	
7	.0	.0	1.2	.7	.0	.0	2.0	.0	.0	.3	.0	.0	.0	.0	.2	2.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.2	
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
12	.0	.2	.0	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.6	
13-16	.0	.0	.0	.4	.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.6	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.9	4.2	2.6	.2	.0	8.0	.4	1.7	.7	.4	.0	.0	.0	3.2	96.0	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	2.3	3.3	.6	.0	.0	.0	6.2	685
1-2	1.2	12.2	3.4	.0	.0	.0	16.8	
3-4	.2	9.3	20.0	1.6	.0	.0	31.3	
5-6	.2	1.1	16.3	3.3	.0	.0	21.1	
7	.0	.0	1.2	6.8	3.3	.0	11.3	
8-9	.2	.2	1.9	2.3	.0	.0	4.7	
10-11	.0	.2	.0	2.3	.2	.0	2.3	
12	.0	.4	.0	.4	.0	.0	.8	
13-16	.0	.2	.0	.2	.0	.0	1.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.1	29.3	51.8	14.4	.4	.0	100.0	493

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAV. 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
<1	3.2	8.0	13.3	3.3	2.3	1.1	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	363	3
1-2	.1	.9	8.1	9.3	6.0	3.5	1.1	.3	.3	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	317	4
3-4	.0	.8	2.2	4.8	8.7	3.2	1.5	.4	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	198	7
5-6	.0	.0	.3	.8	1.1	1.3	.5	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	8
7	.0	.0	.2	.3	.8	.2	.3	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	9
8-9	.0	.0	.0	.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
MEAN	1.3	1.4	1.7	1.1	1.1	1.9	.7	1.1	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	161	3
TOTAL	51	116	272	239	180	112	82	21	18	3	1	1	1	0	0	0	0	0	0	1036	3
PCT	4.8	11.9	25.8	21.7	17.0	10.6	4.9	2.0	1.7	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) : 1962-1975

AREA 0011 PORTO ALEGRE
30.65 49.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	6.7	3.6	2.0	.0	.0	.0	.5	12.8	2.6	3.4	2.0	.0	3.6	.0	77.4
NE	6.0	1.9	1.5	.0	.0	.0	.0	9.3	1.6	3.2	2.8	.5	4.3	.0	78.8
E	6.3	4.0	1.3	.0	.0	.0	.0	11.6	3.0	1.1	3.7	.0	1.4	.0	79.9
SE	7.2	1.8	2.5	.0	.0	.0	.0	11.2	3.9	.8	2.3	.5	.8	.0	81.4
S	4.8	.8	2.1	.0	.0	.0	.0	7.5	1.9	1.1	3.2	.0	.7	.0	86.0
SW	3.7	1.0	1.6	.0	.0	.0	.0	6.4	3.1	1.8	2.3	.4	.0	.0	86.7
W	4.1	.0	1.3	.0	.0	.0	.0	3.4	2.2	.0	2.8	.9	2.2	.0	86.4
NW	8.0	1.6	.8	.0	.0	.0	.0	10.4	2.0	3.2	3.2	.0	.8	.0	82.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	4.0	.0	28.0	.0	.0	.0	66.0
TOT PCT	5.6	1.9	1.7	.0	.0	.0	.1	9.2	2.5	2.0	3.1	.3	2.0	.0	81.7
TOT OBS:	1737														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0600	6.8	2.3	.9	.0	.0	.0	.0	10.1	2.0	3.8	2.9	.2	2.0	.0	80.4
0609	3.4	1.6	1.6	.0	.0	.0	.0	8.2	2.8	2.8	4.6	.2	1.9	.0	80.4
1200	4.8	2.3	2.3	.0	.0	.0	.0	9.5	1.7	.4	2.7	.6	2.3	.0	83.0
1800	3.3	1.4	2.3	.0	.0	.0	.0	9.0	3.5	1.2	3.7	.0	2.1	.0	81.3
TOT PCT	3.8	1.8	1.8	.0	.0	.0	.1	9.2	2.5	2.0	3.4	.3	2.1	.0	81.4
TOT OBS:	1787														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT PRGQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	3.2	4.7	1.8	.3	.0		10.4	13.0		9.7	9.7	9.8	10.1	12.1	11.1	10.4	6.0
NE	.7	6.9	11.2	4.3	.4	.1		23.3	15.0		23.0	23.8	24.3	27.4	23.9	22.3	23.3	20.8
E	.7	4.9	5.1	1.3	.3	.0		12.3	13.0		14.4	11.9	11.3	9.5	11.6	11.1	13.2	8.9
SE	.7	3.3	4.3	1.0	.3	.0		11.9	12.3		12.3	13.3	11.8	14.9	10.2	12.3	11.2	13.3
S	1.1	3.3	4.6	1.4	.2	.0		12.7	12.1		13.5	11.6	12.9	9.3	12.1	12.3	13.5	11.3
SW	.9	4.7	6.7	3.7	.9	.0		18.9	16.2		16.8	13.9	16.1	21.4	16.9	17.2	18.0	23.8
W	.3	1.7	1.6	1.0	.7	.1		3.8	17.0		4.7	3.7	6.3	4.8	6.2	6.3	5.3	2.4
NW	.3	2.0	1.3	1.3	.1	.0		4.3	12.6		3.3	3.1	4.7	.0	4.4	4.7	3.9	3.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0		2.0	3.4	2.8	2.4	2.4	2.1	1.3	4.8
TOT OBS:	316	2327	2723	1030	212	17	6828		13.9		1221	820	1221	42	1227	1023	1232	42
TOT PCT	7.6	34.1	39.0	13.1	3.1	.2	100.0		13.9		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT PRGQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40					00	03	09	12	18	21
N	1.8	4.3	3.3	.8	.1		10.4	13.0		9.3	9.9	11.7	10.2	
NE	3.1	10.6	8.3	1.4	.2		23.3	15.0		23.3	24.4	23.3	23.2	
E	2.7	3.9	3.0	.3	.1		12.3	13.0		13.4	11.2	11.4	13.1	
SE	2.8	6.2	2.4	.4	.1		11.9	12.3		12.8	11.9	11.3	11.4	
S	3.4	6.0	2.6	.6	.0		12.7	12.1		12.8	12.7	12.2	13.2	
SW	2.8	6.2	3.7	2.0	.3		18.9	16.2		16.4	16.3	17.0	18.2	
W	1.4	1.8	1.3	.8	.4		3.8	17.0		3.1	6.3	6.3	3.4	
NW	1.2	1.9	.9	.2	.1		4.2	12.6		4.2	4.3	4.3	3.9	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	2.3						2.3	.0		2.3	2.8	2.3	1.4	
TOT OBS:	1466	2923	1900	432	87	6828		13.9		2041	1263	2230	1274	
TOT PCT	21.3	42.8	27.8	6.6	1.3	100.0		13.9		100.0	100.0	100.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1919-1975
(OVER-ALL) 1962-1975

AREA 0011 PORTO ALEGRE
30.85 49.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	2.3	3.0	34.5	40.1	14.0	3.3	.3	14.0	100.0	2041
0600Z	2.8	3.2	34.7	41.1	13.8	2.2	.2	13.5	100.0	1267
1200Z	2.2	3.5	32.7	39.6	16.4	3.3	.2	14.1	100.0	2230
1800Z	1.4	3.3	33.2	38.8	16.0	3.1	.2	14.0	100.0	1274
TOT	196	380	2327	2723	1033	212	17	13.9		6826
PCT	2.3	3.3	34.1	39.9	15.1	3.1	.2		100.0	

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	3.7	2.0	3.9	8.9		4.6
E	2.9	1.3	3.1	4.7		3.3
SE	2.3	1.1	3.1	4.3		3.3
S	4.3	1.5	3.1	3.3		4.3
SW	6.7	2.6	4.7	4.4		4.1
W	1.8	.9	1.1	1.1		4.3
NW	1.3	.4	.3	1.3		4.6
VAR	.0	.0	.0	.0		.0
CALM	.6	.2	.1	.7		4.3
TOT OBS	441	169	308	424	1322	4.6
TOT PCT	33.4	11.3	23.3	32.1	100.0	

TABLE 6

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

WIND DIR	000	150	300	600	1000	2000	3000	5000	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.0	.1	1.0	1.2	.8	.4	.1	.1	.0	7.4
NE	.6	.0	.0	2.8	2.3	2.3	1.7	.3	.1	.0	14.6
E	.5	.0	.1	1.2	1.9	.9	.7	.3	.3	.0	6.1
SE	.2	.0	.1	1.4	2.2	.7	.4	.2	.1	.2	5.2
S	.4	.0	.2	1.2	1.3	.8	.4	.2	.1	.1	7.6
SW	.1	.0	.2	1.3	2.0	1.5	1.3	.8	.0	.0	10.8
W	.1	.0	.0	.2	.3	.5	.4	.2	.0	.1	2.3
NW	.2	.1	.1	.4	.2	.2	.4	.0	.0	.0	1.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2	.0	.2	.1	.0	.0	.0	.0	.0	.0	1.1
TOT OBS	34	1	20	133	131	103	77	30	10	3	788
TOT PCT	2.6	.1	1.5	10.1	11.4	7.6	3.8	2.3	.8	.4	37.3

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>8	>6	>4	>1/2	>1/4	>FOYD	>0
>4500	.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2
>3000	1.8	2.8	3.1	3.4	3.4	3.4	3.3	3.3
>2500	3.0	7.8	8.8	9.1	9.1	9.1	9.3	9.3
>2000	9.4	14.4	16.0	16.3	16.4	16.7	16.9	16.9
>1000	13.7	26.3	27.3	27.8	28.1	28.2	28.4	28.4
>600	19.8	32.3	37.2	37.8	38.1	38.2	38.4	38.4
>300	28.1	33.4	38.8	39.4	39.8	39.8	39.9	39.9
>150	38.1	38.4	39.0	39.6	39.8	39.9	40.1	40.1
>0	38.2	34.4	40.1	40.9	41.2	41.6	42.7	42.8
TOTAL	271	461	538	548	552	557	572	574

TOTAL NUMBER OF OBS: 1340

PCT FREQ NH <5/8: 37.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	10	TOTAL OBS
	23.9	10.4	8.3	7.1	6.6	4.5	6.4	8.5	22.0	2.3		1431

SEPTEMBER

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1862-1975

AREA 0011 PORTO ALEGRE
30.65 49.1W

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.2
	NO PCP	.0	.3	.2	.0	.2	.4	.1	.1	.0	.2	1.4	
	TOT %	.0	.4	.2	.0	.2	.4	.1	.1	.0	.2	1.7	
1/2<1	PCP	.0	.1	.1	.1	.0	.1	.1	.0	.0	.0	.0	.3
	NO PCP	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.3
	TOT %	.1	.2	.1	.1	.0	.1	.1	.0	.0	.0	.0	.6
1<2	PCP	.0	.1	.0	.0	.0	.2	.1	.0	.0	.0	.0	.5
	NO PCP	.1	.0	.1	.1	.1	.2	.0	.1	.0	.1	.1	.6
	TOT %	.1	.1	.1	.1	.1	.4	.1	.1	.0	.1	.1	1.1
2<5	PCP	.4	.6	.3	.3	.2	.3	.0	.1	.0	.0	.0	2.1
	NO PCP	.0	1.0	.6	.3	.4	.5	.1	.1	.0	.2	.4	4.4
	TOT %	.4	2.4	.9	.6	.6	.8	.1	.2	.0	.2	.4	6.6
5<10	PCP	.7	1.3	.7	.9	.6	.4	.1	.2	.0	.0	.0	5.0
	NO PCP	2.6	6.9	3.7	3.3	2.8	3.6	1.3	1.1	.0	.2	23.4	
	TOT %	3.3	8.2	4.4	4.2	3.4	4.1	1.4	1.3	.0	.2	28.4	
10+	PCP	.3	.3	.2	.0	.1	.1	.0	.0	.0	.0	.0	1.1
	NO PCP	6.2	13.9	6.3	6.4	7.9	11.9	2.8	1.9	.0	.8	38.3	
	TOT %	6.5	14.2	6.5	6.4	8.1	12.1	2.8	1.9	.0	.8	39.4	
TOT OBS													1737
TOT PCT													10.9 23.3 12.3 11.4 12.3 17.8 4.6 3.6 .0 1.4 100.0

TABLE 9

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

VISBY (MM)	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	.2	.2	
	4-10	.1	.2	.1	.1	.2	.1	.0	.0	.0	.0	.7	
	11-21	.0	.2	.1	.0	.0	.1	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	
	TOT %	.1	.4	.2	.1	.2	.3	.1	.1	.0	.0	.2	1.7
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	
	TOT %	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.4	.7
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.4	
	11-21	.1	.1	.2	.1	.1	.2	.0	.1	.0	.0	.8	
	22+	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.4	
	TOT %	.3	.2	.3	.3	.2	.4	.1	.1	.0	.0	1.9	
2<5	0-3	.1	.0	.1	.0	.1	.0	.0	.0	.0	.2	.6	
	4-10	.3	.4	.4	.3	.4	.4	.2	.1	.0	.0	2.6	
	11-21	.4	1.1	.3	.4	.3	.2	.1	.1	.0	.0	2.8	
	22+	.2	.4	.1	.1	.1	.2	.1	.1	.0	.0	1.3	
	TOT %	.9	2.0	.9	.8	.8	.8	.3	.2	.0	.2	7.0	
5<10	0-3	.1	.2	.2	.2	.2	.2	.0	.1	.0	.4	1.5	
	4-10	.8	1.6	1.2	1.3	1.0	.9	.4	.6	.0	.0	7.9	
	11-21	1.5	2.9	1.6	1.3	1.1	1.3	.3	.3	.0	.0	10.9	
	22+	.7	1.4	.3	.3	.3	.3	.9	.1	.1	.0	4.3	
	TOT %	3.1	6.2	3.3	3.3	2.8	3.2	1.1	1.2	.0	.4	24.6	
10+	0-3	.1	.3	.6	.4	.6	.6	.2	.2	.0	1.0	4.0	
	4-10	2.1	4.1	3.2	4.1	3.5	3.6	1.2	1.1	.0	.0	23.1	
	11-21	3.0	6.8	3.2	2.3	3.3	4.3	1.3	.6	.0	.0	27.0	
	22+	.6	2.1	.4	.6	.9	3.0	1.3	.4	.0	.0	9.0	
	TOT %	5.8	13.3	7.3	7.3	6.3	14.0	4.3	2.3	.0	1.0	64.0	
TOT OBS													3657
TOT PCT													10.3 22.3 12.4 12.1 12.2 18.8 6.0 3.9 .0 1.8 100.0

SEPTEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1962-1975

AREA 0011 PORTO ALEGRE
30.63 49.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >478) AND OCCURRENCE OF NH <378 BY HOUR

HR	000	100	300	600	1000	2000	3000	5000	6500	8000+	TOTAL	NH <378 ANY HGT	TOTAL OBS
0000Z	149	299	399	999	1999	3499	4999	6499	7999		42.3	37.7	331
0600Z	3.6	.0	.9	9.7	9.7	8.3	6.9	1.3	.9	.6	37.7	62.3	332
1201Z	2.5	.3	2.8	9.1	11.9	7.8	6.9	1.7	1.1	.3	44.3	33.7	361
1802Z	1.4	.6	1.4	11.7	11.7	6.7	5.3	3.6	.3	.8	42.6	37.2	360
TOT	38	2	21	134	134	103	79	31	11	6	379	603	1364
PCT	2.7	.1	1.5	9.7	11.1	7.4	5.7	2.2	.8	.4	41.8	38.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL
0000Z	1.2	.9	1.3	6.6	26.3	63.0	1043
0600Z	2.2	.3	1.8	6.9	23.6	63.0	772
1201Z	1.9	.8	1.3	6.6	23.1	64.0	1106
1802Z	1.7	.3	2.9	8.7	23.9	42.4	784
TOT	67	26	70	263	924	2337	3767
PCT	1.8	.7	1.9	7.1	24.9	63.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR CEILING HGT (FEET, NH >478) BY HOUR

HR	<150	<600	<1000	1000+	NH <378 AND 3+	TOTAL
0000Z	3.7	3.3	20.6	24.3	33.1	321
0600Z	3.8	3.6	18.3	22.6	38.9	319
1201Z	2.3	6.4	21.2	26.4	32.3	343
1802Z	1.4	3.4	22.0	23.7	34.4	333
TOT	37	69	276	323	739	1340
PCT	2.8	5.1	20.6	24.3	33.1	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	PCT
73/79	.0	.0	.0	.1	.0	.1	.1	.0	4	.3
70/74	.0	.0	.0	.2	.3	1.8	1.9	.0	66	5.4
69/69	.0	.0	.1	1.0	3.1	3.3	9.6	12.4	433	32.1
66/64	.0	.0	.1	1.4	6.4	7.9	13.1	9.7	322	38.7
59/59	.0	.0	.3	1.3	3.0	3.9	3.0	4.2	239	17.7
50/54	.0	.0	.1	.3	.7	1.1	1.9	.4	60	4.4
43/49	.0	.0	.1	.0	.1	.0	.0	.0	3	.4
TOTAL	0	0	9	60	187	281	426	388	1349	100.0
PCT	.0	.0	.7	4.4	13.9	20.8	31.6	28.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
73/79	.1	.0	.0	.0	.1	.1	.0	.0	.0	.0
70/74	1.7	2.8	.7	.4	.1	.2	.2	.3	.0	.0
69/69	6.0	11.6	3.4	2.3	2.1	2.3	1.4	1.7	.0	.1
66/64	2.7	8.8	6.1	6.1	3.0	6.3	1.7	.9	.0	1.1
59/59	.9	1.9	2.0	1.7	3.4	3.6	.9	.9	.0	.4
50/54	.0	.1	.1	.4	1.7	1.8	.3	.0	.0	.0
43/49	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
TOTAL	11.3	23.2	12.4	11.2	12.6	17.0	4.3	3.6	.0	1.6

TABLE 15

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

HR	MAX	99%	95%	90%	85%	80%	MEAN	TOTAL
0000Z	74	70	68	62	54	50	61.6	2031
0600Z	78	70	68	61	53	48	60.9	1234
1201Z	82	73	70	63	53	51	63.2	2178
1802Z	79	74	71	64	53	51	63.8	1223
TOT	82	72	70	63	54	50	62.4	6666

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
0000Z	.0	4.4	11.9	18.2	33.4	32.0	82	362		
0600Z	.0	3.9	11.7	19.3	30.0	34.8	83	333		
1201Z	.0	3.2	17.9	19.8	31.0	26.1	80	364		
1802Z	.0	7.1	12.6	23.8	30.4	24.2	79	326		
TOT	0	71	188	287	433	406	91	1383		

SEPTEMBER

PERIOD: (PRIMARY) 1913-1973
(COVER-ALL) 1962-1973

AREA 0011 PORTO ALEGRE
30.63 49.1W

TABLE 17

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

AIR-SEA TMP DIF	45	49	53	57	61	65	69	73	77	TOT	N POC	NO POC
17/19	.0	.0	.0	.0	.0	.1	.0	.0	.0	3	.0	.1
14/16	.0	.0	.0	.0	.1	.0	.0	.1	.0	4	.0	.3
11/13	.0	.0	.0	.0	.1	.2	.1	.1	.0	8	.0	.5
9/10	.0	.0	.0	.0	.3	.4	.4	.1	.1	17	.0	1.1
7/8	.0	.0	.0	.0	1.1	.7	.5	.1	.0	37	.0	2.3
6	.0	.0	.0	.0	.3	.7	.5	.2	.0	36	.0	2.4
4	.0	.0	.1	.3	.9	1.4	.3	.1	.0	49	.0	3.2
2	.0	.0	.3	1.0	1.4	1.9	.9	.1	.0	83	.1	5.4
0	.0	.1	.2	.7	2.7	2.3	.7	.1	.0	101	.1	6.6
-2	.0	.0	.5	2.3	4.2	3.8	1.1	.1	.0	182	.7	11.4
-4	.0	.0	.4	1.9	3.6	2.8	1.4	.1	.0	153	.3	9.8
-6	.0	.1	.7	1.3	4.3	3.3	1.3	.0	.0	174	.1	11.4
-8	.0	.0	.9	1.8	2.9	3.0	1.1	.1	.0	143	.2	9.4
-10	.0	.3	.9	1.9	3.2	2.8	.2	.0	.0	139	.2	9.0
-12	.0	.1	.7	1.3	2.3	2.1	.1	.0	.0	99	.1	6.4
-14	.0	.0	.6	1.3	1.6	1.2	.0	.0	.0	77	.3	4.8
-16	.0	.1	.8	1.3	2.0	.7	.1	.0	.0	74	.3	4.7
-18	.0	.1	.4	.9	1.1	.2	.0	.0	.0	41	.1	2.7
-20	.1	.2	.8	1.4	1.4	.1	.0	.0	.0	60	.1	3.8
-22	.0	.1	.3	.7	.3	.0	.1	.0	.0	20	.0	1.3
-24	.0	.2	.1	.0	.1	.0	.0	.0	.0	7	.1	.4
-26	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	22	114	282	319	417	16	1	1	1508	38	1470
PCT	.1	1.3	7.6	18.7	34.4	27.7	9.0	1.1	.1	100.0	2.5	97.5

PERIOD: (COVER-ALL) 1943-1973

TABLE 18

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

WGT	N					PCT	NE					PCT
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
41	.0	.2	.0	.0	.0	.2	.0	.8	.0	.0	.0	.0
1-2	.0	2.2	1.1	.0	.0	3.3	.4	2.4	1.3	.0	.0	4.3
3-4	.0	.8	2.0	.0	.0	2.8	.0	2.2	3.7	.4	.0	8.3
5-6	.0	.0	1.4	.2	.0	2.1	.0	.9	4.9	1.2	.0	7.0
7	.0	.0	1.0	.7	.0	1.9	.0	.1	2.0	2.1	.2	4.3
8-9	.0	.0	.0	.0	.0	.9	.0	.2	.4	1.0	.0	1.6
10-11	.0	.0	.0	.2	.0	.2	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
13-14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29-31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
32-34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
35-37	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
38-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-43	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
44-46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
47-49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
50-52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
53-55	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
56-58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
59-61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
62-64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
65-67	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
68-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-73	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
74-76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
77-79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
80-82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
83-85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
86-88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
89-91	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
92-94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
95-97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
98-100	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.3	2.8	2.0	.0	11.3	.8	6.3	16.8	3.3	.2	27.4

WGT	E					PCT	SE					PCT
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
41	.0	.2	.0	.0	.0	.2	.4	.7	.0	.0	.0	1.1
1-2	.0	1.8	1.4	.0	.0	3.4	.4	1.4	1.9	.0	.0	2.7
3-4	.0	.8	2.2	.0	.0	4.8	.1	1.0	1.0	.0	.0	2.1
5-6	.0	.0	1.1	.2	.0	1.7	.0	.2	1.3	.0	.0	1.9
7	.0	.0	.9	.0	.0	1.0	.0	.0	.9	.2	.0	1.1
8-9	.0	.0	.4	.4	.0	.8	.0	.0	.2	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29-31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
32-34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
35-37	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
38-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-43	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
44-46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
47-49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
50-52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
53-55	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
56-58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
59-61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
62-64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
65-67	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
68-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-73	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
74-76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
77-79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
80-82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
83-85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
86-88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
89-91	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
92-94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
95-97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
98-100	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.9	6.2	1.1	.2	11.8	.9	3.3	4.3	.8	.0	9.3

PERIOD: (OVER-ALL) 1963-1975

SEPTEMBER
TABLE 18 (CONT)

AREA 0011 PORTO ALEGRE
30.05 -9.1W

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

HGT	S						PCT	SW						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.4
1-2	.0	2.9	.0	.0	.0	.0	.0	.0	2.1	.3	.0	.0	.0	.0	2.6
3-4	.0	2.2	2.1	.0	.0	.0	.0	.0	2.0	4.8	.5	.0	.0	.0	7.3
5-6	.0	.0	1.0	.0	.0	.0	.0	.0	.0	2.1	2.2	.0	.0	.0	4.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.1	.2	.0	.0	2.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.3	.2	.0	.0	1.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	6.7	3.9	1.9	.0	.0	10.6	.4	4.7	9.3	4.8	.8	.0	.0	19.7

HGT	W						PCT	NW						PCT	TOTAL PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	.4	.0	.0	.0	.0	.2	.1	.7	.0	.0	.0	.0	.0	.7	.7
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.5	.2	.0	.0	.0	.0	.7	.7
3-4	.2	.4	.2	.2	.0	.0	1.0	.2	.3	.0	.0	.0	.0	.0	1.3	1.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.4	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.3	1.3	1.1	.0	.0	4.1	.3	1.4	1.3	.4	.0	.0	.0	3.5	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.6	3.2	.0	.0	.0	.0	.0	6.9
1-2	1.8	13.2	6.1	.0	.0	.0	21.1	
3-4	.8	9.9	19.8	1.2	.0	.0	31.8	
5-6	.0	2.4	12.8	4.0	.0	.0	19.2	
7	.0	.2	6.1	3.1	.0	.0	11.7	
8-9	.0	.2	1.6	3.0	.2	.0	5.1	
10-11	.0	.0	.2	2.0	.0	.0	2.2	
12	.0	.2	.0	.6	.0	.0	.8	
13-16	.0	.0	.0	.8	.0	.0	1.2	
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	6.3	29.4	46.4	16.8	1.2	.0	100.0	494

PERIOD: (OVER-ALL) 1949-1975

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	6.8	11.8	4.7	3.3	1.1	.7	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	323	4
6-7	.0	1.5	5.1	9.9	7.1	2.9	1.6	.6	.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	308	6
8-9	.0	.1	1.3	4.3	5.0	3.0	1.8	.3	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	179	7
10-11	.0	.1	.4	.6	1.3	2.0	.3	.7	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	9
12-13	.0	.0	.1	.4	.1	.3	.1	.3	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	11
>13	.0	.0	.0	.3	.7	.3	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	7
INDET	1.0	1.8	2.9	2.8	1.6	.8	.6	.3	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	124	3
TOTAL	33	108	226	241	198	104	54	27	40	4	3	0	0	0	0	0	0	0	0	0	1037	6
PCT	3.2	10.1	21.8	23.2	19.1	10.0	5.2	2.6	3.9	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1913-1975
(COVER-ALL) 1962-1975

AREA 0011 PORTO ALEGRE
30.63 49.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZD PCPN	SNOW	OTHER PRFM PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	2.1	.5	.5	.0	.0	.0	.0	3.1	6.4	4.8	4.0	.0	3.8	.0	78.5
NE	3.8	2.2	1.3	.0	.0	.0	.0	7.3	3.2	1.4	2.4	.1	3.3	.1	92.2
E	4.7	2.2	2.3	.0	.0	.0	.0	9.0	3.1	.9	1.4	.3	.9	.3	92.4
SE	1.0	2.3	2.6	.0	.0	.0	.0	3.9	2.0	.0	2.0	.0	.3	.0	99.3
S	4.0	1.0	1.3	.0	.0	.0	.0	4.3	3.3	.4	2.8	.4	.6	.0	96.2
SW	2.7	2.9	1.3	.0	.0	.0	.0	8.8	2.4	.3	1.3	.0	.3	.0	98.8
W	.9	2.1	2.8	.0	.0	.0	.0	6.0	.9	1.3	.0	1.3	.0	.0	90.6
NW	4.0	.0	4.0	.0	.0	.0	.0	6.1	4.3	4.3	.0	.0	3.0	.0	77.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
CALM	.0	.0	3.9	.0	.0	.0	.0	3.9	.0	.0	11.8	3.9	.0	.0	76.5
TOT PCT	3.2	2.0	1.8	.0	.0	.0	.0	6.7	3.4	1.2	3.2	.2	1.7	.1	84.6
TOT OBS:	1828														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZD PCPN	SNOW	OTHER PRFM PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000Z	3.6	1.8	1.8	.0	.0	.0	.0	6.6	1.8	2.8	1.2	.2	1.4	.0	86.2
0600Z	4.2	2.3	1.9	.0	.0	.0	.0	8.4	4.7	1.9	1.4	.0	1.2	.0	92.4
1200Z	2.6	2.0	1.8	.0	.0	.0	.0	6.0	3.0	.2	4.4	.4	1.8	.0	84.4
1800Z	2.9	1.8	2.0	.0	.0	.0	.0	6.6	4.3	.0	2.3	.2	2.3	.2	93.7
TOT PCT	3.3	1.9	1.8	.0	.0	.0	.0	6.9	3.4	1.2	3.4	.2	1.7	.1	84.3
TOT OBS:	1868														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.8	2.5	3.4	1.7	.2	.1		8.6	13.4		6.0	7.1	8.4	20.4	10.4	10.3	8.3	6.3
NE	.8	7.3	13.4	4.8	.4	.0		26.7	19.0		26.5	28.4	28.0	13.7	27.0	23.1	25.3	31.3
E	.0	6.2	8.0	2.1	.4	.0		15.6	13.3		16.4	16.3	1.3	13.7	14.3	16.7	13.9	18.1
SE	.9	9.2	3.3	1.4	.3	.0		12.3	12.1		13.0	12.8	1.9	8.3	11.4	11.3	12.2	13.3
S	.7	9.7	4.9	1.2	.1	.0		11.4	12.3		14.0	12.8	13.6	8.3	10.7	9.3	11.4	9.0
SW	.0	4.0	6.2	3.4	1.0	.2		13.4	17.4		14.3	12.8	14.3	20.5	13.7	17.0	17.3	11.8
W	.2	1.3	1.6	.0	.3	.1		4.7	17.4		3.3	4.8	4.8	3.7	3.6	6.0	4.7	4.2
NW	.2	1.7	.8	.2	.1	.0		3.1	11.3		2.7	3.6	2.9	3.7	2.7	3.6	3.3	1.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0	.0	.0	.0	.0	.0		2.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	442	2380	2772	1079	206	28	6907		14.2		1281	240	234	27	1234	1004	1337	36
TOT PCT	4.4	34.3	40.1	15.6	3.0	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)									
	0-6	7-16	17-27	28-40				00	03	09	12	18	21				
N	1.4	3.4	3.0	.6	.1		8.6	13.4		6.0	7.1	8.4	20.4	10.4	10.3	8.3	6.3
NE	3.3	12.2	9.4	1.3	.1		26.7	19.0		26.5	28.4	28.0	13.7	27.0	23.1	25.3	31.3
E	2.8	8.2	3.6	.9	.1		15.6	13.3		16.4	16.3	1.3	13.7	14.3	16.7	13.9	18.1
SE	3.6	3.8	2.0	.9	.1		12.3	12.1		13.0	12.8	1.9	8.3	11.4	11.3	12.2	13.3
S	2.3	6.0	2.4	.5	.0		11.4	12.3		14.0	12.8	13.6	8.3	10.7	9.3	11.4	9.0
SW	2.1	3.4	3.3	2.1	.3		13.4	17.4		14.3	12.8	14.3	20.5	13.7	17.0	17.3	11.8
W	.9	1.7	1.3	.6	.3		4.7	17.4		3.3	4.8	4.8	3.7	3.6	6.0	4.7	4.2
NW	1.0	1.5	.4	.2	.0		3.1	11.3		2.7	3.6	2.9	3.7	2.7	3.6	3.3	1.4
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0	.0	.0	.0	.0		2.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	1356	3052	1915	301	83	6907		14.2		1281	240	234	27	1234	1004	1337	36
TOT PCT	19.6	44.2	27.7	7.3	1.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1862-1973

AREA 0011 PORTO ALEGRE
30.6S 49.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	WIND SPEED (KNOTS)						48+	MEAN	PCT PREG	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
0000	2.4	4.1	33.7	38.5	16.0	3.2	.2	14.1	100.0	2091	
0600	2.2	4.4	34.5	41.3	14.7	2.5	.4	14.0	100.0	1293	
1200	2.0	4.8	33.9	39.4	16.0	3.3	.6	14.4	100.0	2260	
1800	1.1	4.1	33.4	43.0	13.4	2.6	.4	14.2	100.0	1273	
TOT	138	304	2380	2772	1079	208	28	14.2		6907	
PCT	2.0	4.4	34.5	40.1	15.6	3.0	.4	100.0			

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8-6	TOTAL OBS	MEAN CLOUD COVER
NE	6.8	4.3	7.8	6.5	4.4	4.4
E	4.6	2.2	4.2	4.2	4.6	4.6
SE	3.8	1.8	3.2	1.7	4.3	4.3
S	4.3	1.5	3.5	2.9	4.2	4.2
SW	5.7	2.2	3.5	2.3	4.0	4.0
W	3.4	2.2	1.1	1.8	3.6	3.6
NW	1.7	1.4	1.1	1.1	4.3	4.3
VAR	0.0	0.0	0.0	0.0	4.0	4.0
CALM	0.4	0.0	0.1	0.4	4.3	4.3
TOT OBS	433	217	381	300	1353	4.3
TOT PCT	33.6	16.0	28.2	22.2	100.0	

TABLE 6

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

WIND DIR	000	100	300	600	1000	2000	3000	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.3	.8	.9	.7	.7	.1	.1	.1	3.1	
NE	.3	.2	.5	2.1	2.7	1.3	1.5	.8	.3	.3	17.8	
E	.4	.1	.2	1.5	2.5	1.1	.3	.1	.1	.1	8.9	
SE	.1	.1	.1	.5	1.1	1.0	.4	.1	.2	.1	6.9	
S	.2	.0	.2	.6	1.8	.9	.8	.2	.1	.1	8.0	
SW	.2	.1	.5	1.6	1.6	1.0	.5	.3	.0	.0	10.7	
W	.1	.0	.1	.1	.3	.1	.2	.1	.0	.0	3.1	
NW	.1	.0	.1	.3	.4	.1	.3	.1	.0	.0	1.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.1	.1	.0	.1	.0	.0	.0	.0	.6	
TOT OBS	20	6	28	103	136	85	62	24	11	5	822	1353
TOT PCT	1.5	.4	2.1	7.6	11.5	6.3	4.7	1.8	.8	.4	63.0	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>3	>2	>1	>1/2	>1/4	>5000	>0
> OR >4800	.5	1.0	1.1	1.2	1.2	1.2	1.2	1.2
> OR >3000	1.5	2.6	2.8	2.9	2.9	2.9	2.9	2.9
> OR >1800	4.6	7.0	7.5	7.6	7.6	7.6	7.6	7.6
> OR >1000	8.8	12.3	13.6	13.9	13.9	13.9	14.0	14.0
> OR >500	15.7	23.1	25.0	25.3	25.3	25.4	25.4	25.4
> OR >300	20.0	29.9	32.4	32.8	32.8	32.8	33.0	33.0
> OR >150	21.2	31.5	34.3	34.8	34.8	34.9	35.0	35.0
> OR >0	21.3	31.9	34.8	35.3	35.3	35.4	35.6	35.6
TOTAL	294	463	488	496	499	504	508	508

TOTAL NUMBER OF OBS: 1364

PCT FREQ NH <5/8: 62.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS	
10.8	14.3	10.4	8.2	8.9	9.8	8.0	8.4	16.0	1.2	1468

OCTOBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1862-1973

AREA 0011 PORTO ALEGRE
30.65 49.1W

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.1	.1	.0	.1	.0	.1	.0	.0	.4	
	NO PCP	.0	.2	.0	.0	.1	.0	.0	.0	.0	.1	.4	
	TOT %	.0	.3	.1	.1	.1	.1	.0	.1	.0	.1	.8	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.2	.2	.1	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.2	.2	.1	.0	.0	.0	.0	.0	.0	.4	
1<2	PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.3	.2	.1	.1	.1	.0	.1	.0	.0	.8	
	TOT %	.0	.4	.3	.1	.1	.1	.0	.1	.0	.0	1.1	
2<5	PCP	.1	.2	.3	.2	.2	.2	.0	.0	.0	.0	1.2	
	NO PCP	.3	.7	.5	.3	.6	.3	.2	.2	.0	.1	3.2	
	TOT %	.4	.9	.8	.5	.8	.5	.2	.2	.0	.1	4.4	
5<10	PCP	.2	1.4	.7	.4	.5	.6	.2	.1	.0	.1	4.1	
	NO PCP	2.2	7.1	3.6	2.7	2.9	3.4	1.2	.4	.0	.2	23.6	
	TOT %	2.3	8.5	4.3	3.1	3.4	4.0	1.4	.5	.0	.2	27.7	
10+	PCP	.0	.2	.2	.0	.1	.2	.0	.1	.0	.0	.8	
	NO PCP	9.3	16.7	9.3	7.0	9.0	12.2	2.7	1.9	.0	.6	64.8	
	TOT %	9.3	16.9	9.5	7.1	9.1	12.3	2.7	2.0	.0	.6	65.7	
TOT OBS												1826	
TOT PCT		8.3	27.1	15.1	10.9	13.5	17.2	4.4	2.7	.0	.9	100.0	

TABLE 9

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

VISBY (MM)	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	.1
	4-10	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.4	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.0	.2	.1	.1	.1	.1	.0	.0	.0	.0	.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.4	
	11-21	.1	.2	.1	.0	.1	.1	.0	.0	.0	.0	.7	
	22+	.0	.1	.1	.0	.0	.0	.1	.1	.0	.0	.4	
	TOT %	.1	.4	.2	.1	.1	.2	.2	.1	.1	.0	1.5	
2<5	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2	
	4-10	.1	.3	.2	.3	.3	.1	.1	.1	.0	.0	1.6	
	11-21	.3	.4	.2	.2	.2	.2	.0	.0	.0	.0	1.6	
	22+	.2	.3	.3	.1	.0	.1	.2	.0	.0	.0	1.2	
	TOT %	.7	1.3	.7	.7	.6	.4	.3	.2	.0	.1	4.9	
5<10	0-3	.0	.1	.2	.2	.2	.0	.0	.1	.0	.2	1.0	
	4-10	.0	1.7	1.2	1.7	1.9	.8	.3	.3	.0	.0	7.3	
	11-21	1.1	3.9	1.3	.7	1.1	1.3	.6	.1	.0	.0	10.1	
	22+	.7	2.5	.7	.5	.6	1.1	.4	.1	.0	.0	6.4	
	TOT %	2.6	6.2	3.4	3.0	3.6	3.4	1.2	.5	.0	.2	25.1	
10+	0-3	.4	.6	.3	.2	.4	.3	.0	.0	.0	1.3	3.9	
	4-10	1.8	3.3	4.4	4.3	4.0	2.9	1.2	1.2	.0	.0	25.3	
	11-21	2.6	3.3	4.1	3.2	4.1	3.2	1.1	.5	.0	.0	24.9	
	22+	.8	2.3	.7	.4	.7	3.2	.8	.1	.0	.0	9.0	
	TOT %	5.5	17.7	9.6	7.1	9.3	11.3	3.3	1.9	.0	.0	67.2	
TOT OBS												3440	
TOT PCT		8.9	28.0	14.1	11.1	12.7	15.6	5.0	2.8	.0	1.7	100.0	

OCTOBER

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1962-1975

AREA 0011 PORTO ALEGRE
30.65 49.1W

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000Z	.9	.3	2.3	7.0	10.5	5.2	4.1	1.2	1.2	.6	33.1	66.9	344
0600Z	3.0	.0	2.1	7.0	11.6	5.2	3.2	1.5	.0	.0	35.6	64.4	329
1201Z	1.1	.8	2.8	8.6	11.3	7.2	3.6	1.1	1.1	.3	37.8	62.2	362
1802Z	1.6	.8	.8	7.1	11.4	7.4	3.7	3.0	.8	.3	39.2	60.8	367
TOT	23	7	28	104	137	88	65	24	11	3	312	690	1402
PCT	1.6	.5	2.0	7.4	11.2	6.3	4.6	1.7	.8	.4	36.5	63.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000Z	.6	.6	1.3	4.8	23.9	66.8	1080
0600Z	1.1	.5	1.2	3.9	23.8	65.3	751
1201Z	1.0	.7	1.7	4.1	25.3	67.1	1099
1802Z	1.1	.5	1.9	3.8	23.3	67.4	754
TOT	34	22	30	165	927	2456	3680
PCT	.9	.6	1.5	3.0	23.2	68.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<100 <1	<1000 <5	1000+ AND 3+	NH <5/8 AND 3+	TOTAL OBS
0000Z	.9	3.6	12.8	21.8	63.4	333
0600Z	3.2	6.0	16.7	21.3	61.8	317
1201Z	1.1	3.4	16.8	22.4	60.8	352
1802Z	1.7	3.6	14.4	26.4	59.2	360
TOT	23	63	207	313	842	1384
PCT	1.7	4.6	13.2	23.1	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
80/84	.0	.1	.0	.0	.1	.1	.0	.0	3	.2
75/79	.0	.0	.0	.1	.2	.1	.4	.0	12	.9
70/74	.0	.0	.1	.4	1.7	2.3	4.8	2.9	149	12.2
65/69	.0	.0	.3	1.4	3.3	9.0	13.6	13.6	601	43.4
60/64	.0	.0	.1	2.1	6.3	8.9	9.0	7.7	473	34.1
55/59	.0	.0	.0	.6	1.7	3.0	1.9	1.2	117	8.4
50/54	.0	.0	.0	.1	.2	.1	.4	.0	11	.8
TOTAL	0	1	9	47	216	328	414	351	1388	100.0
PCT	.0	.1	.6	4.8	13.6	23.7	29.9	25.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.1	.0	.0	.1	.8	.0	.0	.0	.0
75/79	.1	.4	.0	.2	.1	.8	.7	.0	.0	.0
70/74	1.4	3.2	1.7	2.1	.8	.8	.7	.0	.0	.0
65/69	4.7	16.9	3.9	3.7	4.0	4.9	2.1	1.0	.0	.2
60/64	1.4	6.4	7.0	4.7	6.0	8.1	1.3	.9	.0	.4
55/59	.2	.3	.4	.7	1.8	6.3	.3	.1	.0	.1
50/54	.0	.0	.0	.1	.2	.4	.1	.0	.0	.0
TOTAL	7.8	29.4	15.0	10.0	12.9	16.6	4.7	2.8	.0	.7

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	81	72	70	64	36	32	46	63.7	2086
0600Z	75	72	69	63	33	32	47	63.0	1289
1201Z	82	75	72	64	33	34	48	63.3	2203
1802Z	82	77	73	67	34	33	50	64.4	1234
TOT	82	74	72	63	37	33	46	64.7	6812

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	3.4	19.3	22.3	30.8	29.2	81	308		
0600Z	.0	3.0	14.0	19.6	31.4	30.1	81	322		
1201Z	.0	3.6	19.2	26.9	26.3	26.1	79	376		
1802Z	.0	6.4	19.0	23.1	31.3	17.3	77	323		
TOT	0	77	219	331	420	360	80	1467		

OCTOBER

PERIOD: (PRIMARY) 1963-1975
(OVER-ALL) 1967-1979

AREA 0011 PORTO ALEGRE
30.6S 49.1W

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	49	53	57	61	65	69	73	77	81	TOT	N FOG	WD FOG
	52	56	60	64	68	72	76	80	84			
23/23	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
16/16	.0	.0	.0	.0	.0	.0	.1	.1	.0	3	.0	.2
11/13	.0	.0	.0	.0	.1	.2	.3	.1	.1	14	.0	.9
9/10	.0	.0	.0	.1	.2	.1	.0	.2	.0	10	.0	.6
7/8	.0	.0	.0	.4	.6	.4	.7	.1	.0	36	.2	2.0
6	.0	.0	.0	.2	.6	.7	.3	.0	.0	30	.1	1.8
5	.0	.0	.1	.7	1.2	1.0	.6	.1	.0	57	.1	3.4
4	.0	.0	.2	.7	1.8	1.9	.2	.1	.0	79	.2	4.7
3	.0	.0	.4	1.1	2.3	1.5	.2	.0	.0	91	.3	5.4
2	.0	.2	.4	2.6	4.1	2.0	.2	.0	.0	156	.3	9.3
1	.0	.1	.6	2.9	4.4	2.6	.2	.0	.0	174	.4	10.3
0	.0	.2	.9	3.7	5.4	1.7	.1	.0	.0	197	.2	11.9
-1	.0	.0	.7	2.6	4.1	1.4	.1	.0	.0	144	.1	8.7
-2	.1	.1	1.2	3.0	4.1	.9	.0	.0	.0	131	.2	9.0
-3	.0	.2	1.0	3.1	2.8	.6	.1	.0	.0	125	.1	7.6
-4	.1	.3	1.3	3.0	1.4	.4	.0	.0	.0	110	.1	6.7
-5	.1	.1	.9	2.0	1.4	.1	.0	.0	.0	69	.0	4.2
-6	.0	.3	1.3	1.1	.7	.1	.0	.0	.0	60	.1	3.6
-7/-8	.0	.2	1.0	2.2	.7	.0	.0	.0	.0	67	.0	4.1
-9/-10	.0	.4	.7	.8	.2	.0	.0	.0	.0	33	.0	2.2
-11/-13	.1	.1	.2	.1	.0	.0	.0	.0	.0	9	.0	.6
-14/-16	.0	.2	.1	.0	.0	.0	.0	.0	.0	6	.1	.3
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	4	179	490	366	294	90	12	2	1635	37	1388	
PCT	.2	3.0	11.0	30.2	36.1	19.8	3.1	.7	100.0	2.3	97.7	

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

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

HEG	1-3	4-10	11-21	22-33	34-47	48+	PCT	HEG	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	.2	.8	.8	.8	.8	.4	1-3	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.4	.8	.8	.8	.8	1.8	4-10	3.0	2.3	.8	.0	.0	.0	5.3
3-4	.0	.8	1.3	.4	.8	.8	2.3	11-21	1.7	6.8	.3	.0	.0	.0	9.9
5-6	.0	.8	1.2	.3	.8	.8	1.8	22-33	.9	3.6	.8	.0	.0	.0	6.4
7	.0	.1	.9	.4	.8	.8	1.4	34-47	.2	1.4	.8	.0	.0	.0	2.3
8-9	.0	.0	.0	.4	.8	.8	.4	48+	.2	1.1	.6	.0	.0	.0	1.9
10-11	.0	.0	.0	.1	.8	.8	.1	TOT	.2	.4	.2	.0	.0	.0	1.8
12	.0	.0	.0	.3	.8	.8	.3	PCT	.0	.0	1.2	.0	.0	.0	1.2
13-16	.0	.0	.1	.8	.8	.8	.1	1-3	.2	.2	.9	.4	.0	.0	.8
17-19	.0	.0	.0	.8	.8	.8	.0	4-10	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.8	.8	.8	.0	11-21	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.8	.8	.8	.0	22-33	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.8	.8	.8	.0	34-47	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.8	.8	.8	.0	48+	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.8	.8	.8	.0	TOT	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.8	.8	.8	.0	PCT	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.8	.8	.8	.0	1-3	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.8	.8	.8	.0	4-10	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.8	.8	.8	.0	11-21	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.5	4.2	2.0	.0	.0	8.8	22-33	.4	3.3	18.8	4.3	.0	.0	26.8

HEG	1-3	4-10	11-21	22-33	34-47	48+	PCT	HEG	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.1	.7	.0	.0	.0	.0	.8	1-3	.3	.0	.0	.0	.0	.0	.3
1-2	.2	3.2	1.4	.0	.0	.0	4.8	4-10	2.2	2.2	.0	.0	.0	.0	2.6
3-4	.8	1.0	2.4	.2	.0	.0	3.6	11-21	2.0	2.3	.0	.0	.0	.0	4.3
5-6	.0	.3	1.6	.3	.0	.0	2.2	22-33	.6	2.2	.2	.0	.0	.0	3.0
7	.0	.0	.8	.6	.0	.0	1.4	34-47	.0	.3	.0	.0	.0	.0	.3
8-9	.0	.0	.4	.3	.0	.0	.9	48+	.0	.4	.2	.0	.0	.0	.6
10-11	.0	.0	.1	.0	.0	.0	.1	TOT	.0	.0	.2	.0	.0	.0	.8
12	.0	.0	.0	.0	.4	.0	.4	PCT	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	1-3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	4-10	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.2	.0	.0	.2	11-21	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	22-33	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	34-47	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	48+	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	TOT	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	PCT	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	1-3	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	4-10	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	11-21	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.2	4.7	2.0	.4	.0	14.8	22-33	.4	3.3	3.3	.4	.0	.0	11.6

PERIOD: (OVER-ALL) 1963-1973

OCTOBER.
TABLE 10 (CONT)

AREA 0011 PORTO ALEGRE
30.63 49.1W

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

HGT	S						PCT	SW						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.3	.0	.0	.0	.0	.8	.4	.8	.0	.0	.0	.0	.0	1.1
1-2	.4	1.8	.3	.0	.0	.0	2.5	.2	1.3	1.3	.0	.0	.0	.0	2.8
3-4	.2	1.2	1.3	.1	.0	.0	3.0	.0	1.7	1.6	.8	.0	.0	.0	3.3
5-6	.0	1.3	2.7	.9	.0	.0	5.0	.0	.3	2.6	2.1	.0	.0	.0	5.0
7	.0	.0	.4	.2	.1	.0	.8	.0	.4	.4	1.5	.2	.0	.0	2.5
8-9	.0	.1	.0	.1	.0	.0	.3	.0	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.1	.0	.1	.0	.0	.3	.0	.0	.0	.4	.7	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	4.8	9.0	1.3	.1	.0	12.3	.6	4.4	6.0	9.2	1.8	.0	17.7	

HGT	W						PCT	NW						TOTAL PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.2	.0	.0	.0	.0	1.1
3-4	.0	.0	.1	.0	.0	.0	.8	.0	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.2	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.2
7	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.6	.8	.4	.2	.0	3.1	.0	1.2	.4	.0	.0	.0	1.3	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	2.9	2.3	.0	.0	.0	.0	2.5	5.5
1-2	1.1	14.3	6.6	.0	.0	.0	22.2	28.2
3-4	.2	8.8	17.4	1.1	.0	.0	27.4	27.4
5-6	.0	3.0	16.1	4.7	.0	.0	23.8	23.8
7	.0	.7	4.3	3.8	.4	.0	9.1	9.1
8-9	.0	.4	1.8	2.3	.0	.0	4.7	4.7
10-11	.2	.4	.3	.9	.7	.0	2.7	2.7
12	.0	.0	.0	1.6	.3	.0	2.3	2.3
13-16	.2	.2	.2	.9	.3	.0	2.0	2.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.7	.2	.0	.0	.4	.4
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.3	30.3	47.1	15.8	2.2	.0	100.0	550

PERIOD: (OVER-ALL) 1949-1973

TABLE 10

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	
4-6	1.4	6.7	12.1	6.1	2.3	1.8	.3	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	384	4
6-7	.2	.8	8.7	10.8	6.2	2.8	2.3	.8	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	383	6
8-9	.0	.4	1.6	4.6	3.4	3.2	1.4	.8	1.2	.4	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	194	7
10-11	.0	.4	.4	.7	1.1	1.7	1.1	.3	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	8
12-13	.0	.0	.1	.2	.4	.3	.4	.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	9
313	.0	.0	.0	.0	.1	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	11
INDST	1.4	1.4	2.4	1.0	1.8	1.9	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	101	4
TOTAL	34	109	297	286	179	116	69	33	34	8	4	0	0	0	0	0	0	0	0	0	1142	6
PCT	3.0	9.8	25.1	25.3	15.7	10.2	6.0	3.1	3.0	.7	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1860-1973

NOVEMBER

AREA 0011 PORTO ALEGRE
30.05 49.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	GRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG WEA
N	2.7	.6	.6	.0	.0	.0	.0	3.8	1.6	3.4	4.7	.0	1.3	.0	86.6
NE	1.3	1.2	.8	.0	.0	.0	.0	3.3	.8	1.0	2.4	.2	1.4	.0	91.0
E	1.3	1.4	2.3	.0	.0	.0	.3	3.4	.9	.0	.3	.0	1.2	.0	92.2
SE	1.1	1.1	1.1	.0	.0	.0	.0	3.4	2.0	.4	.6	.0	.4	.0	93.2
S	1.3	1.2	.7	.0	.0	.0	.0	3.4	1.4	.7	2.1	.0	1.2	.0	91.2
SW	3.2	1.3	.6	.0	.0	.0	.0	3.4	1.3	1.3	.3	.0	.6	.0	90.6
W	1.8	1.8	1.8	.0	.0	.0	.0	3.3	.0	3.7	3.2	.0	1.8	.0	89.8
NW	7.4	2.3	4.9	.0	.0	.0	.0	14.6	.0	3.7	.0	.0	.0	.0	81.3
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	3.0	.0	.0	.0	95.0
TOT PCT	1.9	1.2	1.2	.0	.0	.0	.1	4.3	1.2	1.1	1.8	.1	1.1	.0	90.8
TOT OBS:	1879														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	GRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG WEA
0800	1.7	2.1	1.7	.0	.0	.0	.2	3.6	.8	2.9	1.0	.0	1.0	.0	89.2
0800	2.9	1.6	1.1	.0	.0	.0	.0	3.2	2.3	2.0	1.1	.0	.3	.0	89.9
1200	1.7	.9	.7	.0	.0	.0	.0	3.3	1.1	.2	2.8	.2	1.3	.0	91.8
1800	1.7	.8	1.3	.0	.0	.0	.0	3.3	.9	.2	2.8	.0	1.3	.0	91.8
TOT PCT	2.0	1.2	1.2	.0	.0	.0	.1	4.4	1.2	1.3	1.9	.1	1.0	.0	90.4
TOT OBS:	1929														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)				48+	TOTAL OBS	PCT PRG	MEAN SPD	HOUR (GMT)							
		4-10	11-21	22-33	34-47					00	03	06	09	12	15	18	21
N	.7	3.4	4.4	1.7	.3	.0	10.7	14.2	7.9	10.9	12.2	10.4	12.4	12.8	8.7	10.2	
NE	.0	8.3	13.6	4.9	.3	.0	30.4	14.7	20.9	31.7	29.8	35.4	31.3	29.7	29.9	30.0	
E	.0	3.3	9.6	.9	.1	.0	13.6	11.6	15.6	14.0	13.9	20.4	11.8	10.7	13.4	13.3	
SE	.0	3.9	4.9	1.2	.1	.0	12.9	11.7	14.9	14.2	12.9	12.2	11.8	11.2	13.4	12.7	
S	.8	3.0	3.7	1.3	.3	.0	12.7	13.1	16.1	11.4	11.4	7.9	10.8	12.4	14.1	12.7	
SW	.3	3.3	4.9	2.1	.3	.1	11.1	12.2	10.0	9.8	10.7	6.7	12.0	12.2	11.9	9.9	
W	.3	1.2	1.2	.6	.1	.0	3.3	14.2	2.6	2.7	3.3	1.3	4.6	4.6	3.1	3.0	
NW	.6	1.8	1.1	.3	.1	.0	3.4	11.3	2.1	3.2	3.8	2.1	4.2	4.7	2.3	2.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.7	.0	.0	.0	.0	.0	1.7	.0	1.3	2.0	2.4	2.3	1.3	1.9	.0	1.7	
TOT OBS	492	2466	3012	961	110	9	6963	13.3	1232	844	1232	848	1273	1048	1210	39	
TOT PCT	6.6	33.4	43.3	12.9	1.7	.1	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)			41+	TOTAL OBS	PCT PRG	MEAN SPD	HOUR (GMT)					
		7-16	17-27	28-40					00	03	06	12	18	21
N	2.8	4.8	3.2	.7	.0	13.7	14.2	9.1	12.1	12.5	8.7			
NE	3.7	14.5	10.6	1.3	.1	30.4	14.7	30.8	30.1	30.7	30.2			
E	2.1	7.6	2.3	.4	.0	13.6	11.6	16.7	13.8	11.3	12.4			
SE	2.6	6.7	2.3	.4	.0	12.9	11.7	16.4	12.9	11.4	13.4			
S	2.4	6.7	2.9	.3	.1	12.7	13.1	14.2	11.2	11.3	14.1			
SW	1.7	4.8	3.6	.9	.2	11.1	12.2	9.9	10.9	12.1	11.6			
W	.8	1.4	.9	.4	.0	3.3	14.2	2.6	2.2	4.4	3.1			
NW	1.0	1.8	.3	.2	.0	3.4	11.3	2.3	3.7	4.4	2.3			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	1.7	.0	.0	.0	.0	1.7	.0	1.7	2.4	1.6	.9			
TOT OBS	1381	2346	1841	340	37	6963	13.3	2077	1292	2318	1278			
TOT PCT	19.6	48.0	26.7	4.9	.3	100.0		100.0	100.0	100.0	100.0			

NOVEMBER

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1860-1975

AREA 0011 PORTO ALEGRE
30.6S 49.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	1.7	4.1	35.7	42.4	14.6	1.4	.1	13.3	100.0	2077
0600Z	2.4	5.0	36.5	42.8	11.7	1.3	.1	13.0	100.0	1292
1200Z	1.6	6.1	33.3	42.1	12.4	2.3	.2	13.3	100.0	2314
1800Z	.9	4.0	34.0	47.3	12.4	1.3	.2	13.4	100.0	1278
TOT	1.3	3.4	34.6	30.2	12.9	1.7	.1	13.3		6963
PCT	1.7	4.9	33.4	43.2	12.9	1.7	.1	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & 8 B	TOTAL OBS	MEAN CLOUD COVER
N	3.4	.9	1.7	2.4		6.3
NE	12.7	4.4	3.6	5.1		3.9
E	3.7	3.0	3.9	3.4		4.2
SE	4.7	3.0	3.1	2.3		4.3
S	4.3	3.0	3.7	1.9		3.9
SW	2.3	2.1	2.9	2.1		4.2
W	1.6	.3	.4	.3		3.0
NW	1.3	.3	.1	.3		2.8
VAR	.0	.0	.0	.0		.0
CALM	.6	.1	.2	.1		2.5
TOT OBS	323	240	306	231	1302	4.0
TOT PCT	38.0	17.4	28.3	18.2	100.0	

TABLE 6

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

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.2	.9	.8	.5	.3	.1	.3	.0	3.4	
NE	.2	.1	.3	1.7	3.1	1.7	1.7	1.0	.3	.0	20.9	
E	.1	.0	.1	1.0	2.1	1.2	.7	.1	.0	.1	10.6	
SE	.2	.1	.2	1.2	1.8	1.2	.4	.1	.1	.1	10.0	
S	.2	.0	.3	.8	1.4	1.4	.3	.0	.1	.0	8.3	
SW	.2	.0	.2	.6	1.7	.8	.3	.1	.1	.0	6.6	
W	.1	.0	.0	.1	.3	.1	.1	.1	.0	.0	2.2	
NW	.0	.0	.0	.1	.1	.1	.0	.0	.1	.0	1.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.9	
TOT OBS	19	2	16	89	133	97	34	22	11	1	921	1302
TOT PCT	1.1	.1	1.2	6.4	11.1	7.0	3.9	1.6	.8	.1	66.6	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>3	>2	>1	>1/2	>1/4	>500	>0
> OR = OR 24500	.6	.9	.9	.9	.9	.9	.9	.9
> OR = OR 25000	1.6	2.3	2.4	2.3	2.6	2.6	2.6	2.6
> OR = OR 25500	4.1	5.6	6.2	6.3	6.6	6.6	6.6	6.6
> OR = OR 26000	9.2	12.1	13.2	13.6	13.7	13.7	13.7	13.7
> OR = OR 26500	17.1	22.1	24.1	24.8	24.7	24.7	24.8	24.8
> OR = OR 27000	21.3	28.3	30.6	31.0	31.2	31.2	31.3	31.3
> OR = OR 27500	22.0	29.2	31.6	32.1	32.3	32.4	32.4	32.4
> OR = OR 28000	22.0	29.2	31.7	32.2	32.4	32.5	32.4	32.4
> OR = OR 28500	22.1	29.3	32.3	32.8	33.2	33.3	33.3	33.3
TOTAL	311	415	434	462	467	471	473	473

TOTAL NUMBER OF OBS: 1400

PCT FREQ NH <5/8: 66.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
19.2	17.6	12.6	9.1	7.7	6.3	6.1	7.3	12.8	1.0	1303

NOVEMBER

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1860-1975

AREA 0011 PORTO ALEGRE
30.65 49.04

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.4	
1/2<1	PCP	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.3	
1<2	PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	.4	
2<5	PCP	.0	.2	.3	.1	.0	.0	.0	.1	.0	.0	.7	
	NO PCP	.6	1.0	.4	.2	.4	.2	.2	.0	.0	.1	3.0	
	TOT %	.6	1.2	.7	.3	.4	.2	.2	.1	.0	.1	3.7	
5<10	PCP	.3	.5	.4	.2	.3	.3	.2	.3	.0	.0	2.1	
	NO PCP	3.0	6.9	3.1	3.3	2.5	1.9	1.3	.4	.0	.2	22.0	
	TOT %	3.2	7.2	3.5	3.7	2.8	2.2	.7	.7	.0	.2	24.1	
10+	PCP	.0	.8	.1	.2	.1	.3	.0	.0	.0	.0	.6	
	NO PCP	9.4	21.1	11.8	10.8	9.3	7.7	2.0	1.4	.0	.7	70.2	
	TOT %	9.4	21.8	11.9	11.0	9.4	8.0	2.0	1.4	.0	.7	71.0	
TOT OBS												1876	
TOT PCT		9.4	30.3	16.1	15.1	12.6	10.4	2.9	2.2	.0	1.1	100.0	

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.6	
	22+	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.3	.2	.1	.1	.1	.0	.0	.0	.0	.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.1	.2	.1	.1	.1	.1	.0	.0	.0	.0	2.0	
	11-21	.4	.7	.6	.2	.1	.1	.0	.0	.0	.0	2.0	
	22+	.0	.3	.3	.1	.1	.0	.0	.0	.0	.0	.9	
	TOT %	.5	1.3	.8	.3	.4	.2	.2	.1	.0	.1	3.9	
5<10	0-3	.1	.2	.0	.0	.0	.1	.1	.0	.0	.2	.7	
	4-10	.9	1.7	1.2	1.2	1.0	.8	.2	.3	.0	.0	6.9	
	11-21	1.2	3.0	1.4	1.2	1.1	.7	.2	.3	.0	.0	9.7	
	22+	.3	1.0	.4	.4	.4	.3	.1	.0	.0	.0	4.0	
	TOT %	2.7	7.1	3.0	2.7	2.4	2.0	.6	.6	.0	.2	21.2	
10+	0-3	.4	.9	.7	.6	.6	.2	.2	.2	.0	.9	4.4	
	4-10	2.9	7.0	3.2	4.8	3.8	2.8	.8	1.1	.0	.0	28.1	
	11-21	2.9	11.3	4.8	3.9	4.2	4.6	.9	.6	.0	.0	33.3	
	22+	.7	2.3	.3	.6	.7	1.9	.6	.1	.0	.0	7.5	
	TOT %	6.6	21.9	11.0	9.9	9.0	9.3	2.4	2.0	.0	.9	73.2	
TOT OBS												365	
TOT PCT		9.9	31.0	13.2	13.1	11.9	11.8	3.2	2.7	.0	1.2	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1917-1973
(OVER-ALL) 1860-1973

AREA 0011 PDPTO ALEGRE
30.6S 49.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <3/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6800	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
0000	1.4	.0	1.7	5.9	10.4	5.6	3.6	1.4	1.1	.3	31.4	66.6	357
0600	1.7	.0	.9	6.1	11.0	6.7	3.3	1.7	.3	.0	31.9	66.1	345
1200	1.0	.3	1.0	3.6	11.6	7.6	4.3	1.3	1.0	.0	34.1	65.9	396
1800	.0	.0	.8	7.5	9.1	7.8	4.0	1.9	.5	.3	31.9	66.1	373
TOT	13	2	10	92	138	102	37	24	11	2	476	999	1471
PCT	1.0	.1	1.1	6.3	10.5	6.9	3.9	1.8	.7	.1	32.4	67.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	.4	.4	1.0	2.8	23.6	71.9	1049
0600	.4	.7	.7	3.9	21.6	72.8	767
1200	.9	.3	1.2	4.0	21.0	72.7	1124
1800	.7	.1	1.2	3.3	18.0	74.7	769
TOT	22	13	37	143	788	2703	3709
PCT	.6	.4	1.0	3.9	21.3	72.9	100.0

TABLE 12

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

HOUR (GMT)	<1/2 <3/8	<1 <3/8	<1000 AND 5+	1000+ AND 5+	NH <3/8 AND 5+	TOTAL OBS
0000	1.5	3.3	11.9	22.0	66.1	336
0600	1.8	3.3	12.4	21.8	66.2	331
1200	1.1	3.2	12.4	24.0	65.8	379
1800	.0	1.7	15.6	20.1	63.6	360
TOT	13	40	184	311	911	1406
PCT	1.1	2.8	13.1	22.1	64.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
86/86	.0	.0	.0	.1	.2	.2	.1	.0	9	.6
79/79	.0	.0	.1	.4	.6	1.4	.6	.1	43	3.0
70/70	.0	.0	.2	1.3	3.0	7.2	9.3	8.3	429	30.1
63/60	.0	.0	.0	2.1	6.0	11.4	16.8	13.6	712	49.9
60/60	.0	.0	.4	1.2	4.1	8.6	4.2	1.9	208	14.4
55/59	.0	.0	.0	.1	.8	.8	.1	.2	25	1.8
50/54	.0	.0	.0	.0	.1	.1	.0	.0	3	.2
TOTAL	0	0	73	214	339	443	343	1426	1426	100.0
PCT	.0	.0	.6	5.1	15.0	23.8	31.4	24.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.4	.1	.0	.1	.0	.0	.0	.0	.0
.6	1.3	.3	.2	.2	.2	.1	.0	.0	.0
3.5	12.8	4.5	2.8	2.0	2.5	.8	.8	.0	.6
4.0	10.3	8.6	5.9	4.3	4.9	1.4	1.1	.0	.6
.3	2.1	1.9	2.8	3.4	2.3	.8	.3	.0	.2
.0	.0	.1	.2	.4	.9	.1	.1	.0	.0
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
8.6	30.8	15.8	14.9	12.4	11.0	3.2	2.3	.0	1.0

TABLE 15

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

HOUR (GMT)	MAX	95%	90%	50%	50%	LN	MIN	MEAN	TOTAL OBS
0000	80	75	72	68	61	57	54	67.2	7063
0600	77	73	72	67	60	56	53	66.5	1291
1200	85	78	78	69	62	58	52	69.0	2396
1800	84	81	77	70	63	60	55	70.1	1227
TOT	89	78	79	66	61	57	52	68.2	6617

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	4.1	13.0	21.9	33.7	27.3	61	392
0600	.0	3.0	10.3	20.1	37.7	28.9	82	328
1200	.0	7.8	14.3	24.1	27.8	24.1	79	399
1800	.0	7.9	21.2	29.4	38.4	19.2	76	330
TOT	0	83	220	345	454	348	80	1430

NOVEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1860-1973

AREA 0011 PORTO ALEGRE
30.63 49.0W

TABLE 17

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

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	63 68	69 72	73 76	77 80	81 84	TOT	M FOG	MO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.1	.0	.1	2	.0	.2
11/13	.0	.0	.0	.0	.0	.2	.2	.0	.1	9	.0	.3
9/10	.0	.0	.0	.0	.1	.2	.2	.4	.0	13	.1	.8
7/8	.0	.0	.0	.1	.1	.4	.8	.2	.2	21	.1	1.8
6	.0	.0	.0	.1	.1	.4	.4	.1	.1	18	.1	1.0
5	.0	.0	.0	.1	1.1	1.1	.7	.4	.0	37	.0	3.4
4	.0	.0	.0	.2	1.4	2.2	.8	.1	.1	81	.1	4.8
3	.0	.0	.0	.2	1.3	2.1	1.2	.1	.0	84	.0	4.9
2	.0	.0	.1	.8	3.3	3.2	1.3	.0	.0	177	.4	10.3
1	.0	.0	.1	.8	4.7	6.6	1.1	.0	.0	218	.0	12.9
0	.0	.0	.1	1.8	5.2	8.3	1.1	.0	.0	289	.1	17.3
-1	.0	.1	.4	1.1	3.4	3.0	.7	.0	.0	178	.1	10.7
-2	.1	.1	.4	1.6	4.8	2.4	.1	.0	.0	136	.0	9.4
-3	.0	.1	.6	1.9	3.3	1.3	.0	.0	.0	116	.1	8.9
-4	.0	.1	.2	1.1	2.8	.6	.1	.0	.0	80	.1	4.8
-5	.0	.2	.2	1.2	1.3	.6	.0	.0	.0	60	.0	3.6
-6	.0	.0	.1	.7	.8	.2	.0	.0	.0	31	.0	1.9
-7/-8	.0	.2	.2	.9	.8	.1	.0	.0	.0	37	.0	2.2
-9/-10	.0	.0	.4	.2	.1	.0	.0	.0	.0	10	.0	.6
-11/-13	.0	.1	.0	.1	.0	.0	.0	.0	.0	2	.0	.1
-14/-16	.0	.1	.0	.1	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	1	15	48	208	628	378	147	22	11	1656	2.2	1034
PCT	.1	.9	2.8	12.6	37.9	34.9	8.9	1.3	.7	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

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
41	.0	.1	.2	.0	.0	.0	.0	.4	.2	.0	.0	.0	.0	.0
1-2	.0	.1	.4	.0	.0	.0	1.7	.3	3.3	2.7	.0	.0	.0	8.3
3-4	.0	.9	2.2	.3	.0	.0	3.3	.0	1.9	3.3	.6	.0	.0	8.1
5-6	.0	.4	2.1	1.1	.0	.0	3.3	.0	.4	3.8	1.1	.0	.0	7.4
7	.0	.0	.1	.3	.0	.0	.4	.0	.0	1.2	1.8	.0	.0	2.2
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.6	.4	.0	.0	1.0
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.8	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.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	2.7	3.4	1.8	.0	.0	10.8	.8	3.8	16.0	3.4	.0	.0	26.0

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
41	.0	.3	.0	.0	.0	.0	.3	.4	.9	.0	.0	.0	.0	1.2
1-2	.0	2.0	1.1	.0	.0	.0	4.3	.3	2.4	3.3	.0	.0	.0	3.4
3-4	.0	1.1	2.6	.0	.0	.0	4.6	.0	2.3	3.0	.2	.0	.0	3.3
5-6	.0	.0	2.2	.2	.0	.0	3.0	.0	.2	1.6	.8	.0	.0	2.3
7	.0	.0	1.0	.2	.0	.0	1.2	.0	.0	2.1	.4	.0	.0	2.4
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.2	.0	.0	.2
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	.3	.0	.0	.0	.3
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	.2	.0	.2	.0	.0	.2
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.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	9.9	.4	.0	.0	13.7	.7	6.0	7.3	1.7	.0	.0	15.8

PERIOD: (OVER-ALL) 1949-1974

NOVEMBER

AREA 0011 PORTO ALEGRE
30.65 49.0W

TABLE 18 (CONT)

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.2	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.2	.2	.0	.0	.0	2.4	.0	1.9	.6	.0	.0	.0	2.6
3-4	.0	1.2	2.5	.4	.0	.0	4.1	.2	.7	1.6	.4	.0	.0	2.9
5-6	.2	.5	1.3	.6	.0	.0	2.6	.0	.1	1.8	.4	.0	.0	2.2
7	.0	.0	2.0	.4	.2	.0	2.6	.0	.0	.9	.6	.2	.0	1.6
8-9	.0	.0	.5	.3	.0	.0	.8	.0	.0	.3	.3	.0	.0	.6
10-11	.0	.0	.2	.4	.0	.0	.6	.0	.0	.2	.2	.0	.0	.4
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.5	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.2	6.6	2.5	.5	.0	14.2	.2	2.8	5.3	1.9	.6	.0	10.8

HGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.2	.4	.0	.0	.0	.0	.6
1-2	.0	.0	.6	.0	.0	.0	1.4	.0	.6	.0	.0	.0	.0	.7
3-4	.0	.0	.3	.2	.0	.0	.6	.0	.2	.2	.0	.0	.0	.4
5-6	.0	.0	.5	.3	.0	.0	.7	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.3	.2	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	1.9	.8	.2	.0	3.6	.2	1.1	.6	.0	.0	.0	1.9 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	3.4	2.2	.2	.0	.0	.0	5.8	
1-2	1.3	13.9	6.1	.0	.0	.0	23.1	
3-4	.2	8.7	20.4	2.3	.0	.0	31.4	
5-6	.2	2.2	13.3	4.1	.0	.0	21.9	
7	.0	.0	7.3	2.8	.3	.0	10.6	
8-9	.0	.0	1.9	1.4	.0	.0	3.3	
10-11	.0	.0	.3	1.1	.0	.0	1.6	
12	.0	.0	.3	.3	.0	.0	.8	
13-16	.0	.0	.2	.0	.9	.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	.3	.0	.0	.3	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.0	28.4	32.7	12.7	1.3	.0	100.0	640

PERIOD: (OVER-ALL) 1949-1975

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		
<1	1.7	9.7	12.3	8.9	3.3	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	427	4	
1-2	.0	1.4	10.6	10.2	2.1	3.1	.9	.5	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	376	5
3-4	.0	.0	1.7	4.8	3.8	1.3	1.1	.3	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	7
5-6	.0	.0	.7	.3	.7	.8	.4	.1	.3	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	65	9
7-9	.0	.0	.4	.3	.1	.0	.1	.4	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	9
10-11	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	12
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15-19	1.9	1.1	2.4	2.8	1.1	.4	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	122	4
TOTAL	62	142	329	320	168	76	39	19	20	7	3	3	0	0	0	0	0	0	0	0	0	1168	5
PCT	3.6	12.2	28.2	27.4	14.4	6.3	3.3	1.6	1.7	.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1861-1973

AREA 0011 PORTO ALEGRE
30.65 49.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER FRZM PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGS NO PCPN	FGS NO PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG WEA
N	3.9	.9	1.2	.0	.0	.0	.0	3.9	1.4	3.0	.4	.0	1.6	.0	89.9
NE	2.4	.6	.6	.0	.0	.0	.0	3.6	.5	2.4	.4	.0	2.1	.0	91.3
E	1.8	1.4	.3	.0	.0	.0	.0	3.6	1.3	.4	3.2	.0	.8	.0	90.7
SE	2.3	.0	.8	.0	.0	.0	.0	3.1	1.3	.0	3.6	.0	.0	.0	91.9
S	1.0	1.5	1.0	.0	.0	.0	.0	3.6	.8	.7	.6	.0	.6	.0	94.3
SW	2.6	.9	.6	.0	.0	.0	.0	4.1	1.8	2.9	.0	.2	.6	.0	90.3
W	3.6	1.4	.0	.0	.0	.0	.0	3.0	.0	3.6	.0	1.4	1.8	.0	88.2
NW	12.4	1.4	3.8	.0	.0	.0	.0	17.6	.3	3.3	.0	.0	1.0	.0	79.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0
CALM	7.7	.0	.0	.0	.0	.0	.0	7.7	.0	.0	7.7	.0	.0	.0	7.0
TOT PCT	2.8	.9	.8	.0	.0	.0	.0	4.3	.9	2.1	1.1	.1	1.2	.0	90.3
TOT OBS:	1479														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER FRZM PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGS NO PCPN	FGS NO PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG WEA
0000	3.3	1.6	.3	.0	.0	.0	.0	3.4	.3	3.8	1.1	.0	.3	.0	49.1
0600	2.7	1.1	.8	.0	.0	.0	.0	4.6	.3	4.0	1.1	.0	1.1	.0	89.3
1200	1.7	.9	1.2	.0	.0	.0	.0	3.8	.7	.2	1.7	.3	1.3	.0	91.2
1800	3.6	.0	.6	.0	.0	.0	.0	4.2	2.1	.3	.6	.0	1.3	.0	91.4
TOT PCT	2.7	.9	.8	.0	.0	.0	.0	4.3	.9	2.1	1.1	.1	1.2	.0	90.3
TOT OBS:	1498														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREE	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.5	6.7	3.4	1.8	.2	.0	12.7	13.0	8.9	13.1	13.0	12.3	14.4	14.6	10.7	11.4
NE	1.0	9.3	16.9	4.6	.4	.0	32.2	14.4	32.7	13.3	32.8	43.1	32.1	29.7	32.1	33.7
E	.7	7.9	6.1	.7	.0	.0	19.4	11.3	19.2	14.3	12.7	6.9	11.2	13.0	14.4	13.7
SE	.7	6.1	4.3	.3	.1	.0	11.9	11.0	12.4	12.7	12.1	10.0	11.2	10.8	12.4	11.4
S	.6	4.6	3.0	1.2	.1	.0	11.3	12.8	14.4	11.3	9.8	7.6	10.1	11.6	11.7	14.3
SW	.3	3.3	3.8	1.6	.3	.0	9.6	14.7	9.7	7.6	7.7	9.7	9.8	10.3	11.3	4.3
W	.2	1.3	1.0	.3	.1	.1	3.3	14.2	2.4	2.2	3.1	4.2	4.3	3.7	3.1	4.3
NW	.4	1.8	1.1	.2	.0	.0	3.6	10.6	2.0	3.0	4.4	.0	4.8	4.6	2.6	2.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	2.3	2.2	2.3	.0	1.3	1.1	1.4	.0
TOT OBS	411	2387	2823	709	82	12	6424	13.0	1127	806	1137	36	1104	991	1108	33
TOT PCT	6.4	37.2	43.9	11.0	1.3	.2	100.0		100.0	100.0	100.0	100.0	100.0	106.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREE	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+					00	03	06	09	12	15	21
N	2.1	6.1	3.8	.7	.0		12.7	13.3	10.7	14.9	14.5	10.7			
NE	4.3	15.2	11.3	1.3	.0		32.2	14.4	32.9	13.1	31.0	32.2			
E	2.8	8.0	2.3	.2	.0		19.4	11.3	14.8	12.3	12.0	14.3			
SE	2.8	7.2	1.7	.2	.0		11.9	11.0	12.3	12.2	11.0	12.4			
S	2.3	3.7	3.0	.4	.1		11.3	12.8	13.2	9.7	10.8	11.8			
SW	1.7	4.0	2.9	.8	.1		9.1	14.7	8.9	7.7	10.3	11.3			
W	.9	1.3	.7	.0	.1		3.6	14.2	2.3	3.2	4.3	3.1			
NW	1.3	1.5	.7	.1	.0		3.6	10.6	2.4	4.3	4.7	2.6			
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0			
CALM	1.8						1.8	.0	2.3	2.4	1.3	1.2			
TOT OBS	1287	3192	1702	233	28	6424	13.0		1933	1193	2133	1143			
TOT PCT	20.0	49.1	26.3	4.0	.4		100.0		100.0	100.0	100.0	100.0			

DECEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1861-1973

AREA 0011 PORTO ALEGRE
30.6S 49.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	2.2	4.3	37.3	42.1	11.1	1.4	.3	12.9	100.0	1933
0600Z	2.4	4.6	38.6	42.3	10.6	1.3	.1	12.7	100.0	1193
1200Z	1.3	3.0	38.3	43.3	10.6	1.3	.1	12.8	100.0	2133
1800Z	1.3	4.2	32.9	48.2	12.2	1.0	.2	13.6	100.0	1143
TOT	.117	2.94	2367	2822	709	.82	.12	13.0		6424
PCT	1.6	4.0	37.2	43.9	11.0	1.3	.2	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
NE	12.8	6.8	8.3	4.1	3.7	3.7
E	4.3	3.7	1.3	2.4	4.2	4.2
SE	2.7	2.7	2.2	2.1	4.3	4.3
S	3.7	2.0	2.9	2.0	4.0	4.0
SW	4.7	2.9	2.4	1.6	3.6	3.6
W	1.2	.8	.8	1.2	4.4	4.4
NW	1.3	.7	.7	.7	3.8	3.8
VAR	.0	.0	.0	.0	.0	.0
CALM	.7	.1	.1	.1	1.3	1.3
TOT OBS	42.7	24.9	28.6	18.6	1140	3.9
TOT PCT	37.1	21.7	24.9	16.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <9/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3000	5000	6500	8000+	NH <9/8	TOTAL ANY HGT	TOTAL OBS
N	.1	.0	.1	.4	1.0	.3	.3	.1	.0	.1	.1	9.1	
NE	.1	.0	.3	1.0	2.4	2.3	1.0	.4	.1	.0	.0	24.7	
E	.2	.0	.2	.5	1.4	.9	.8	.9	.1	.1	.1	10.1	
SE	.0	.0	.0	.2	.8	.9	.9	.7	.1	.1	.1	6.4	
S	.2	.0	.0	.5	1.2	.8	.7	.0	.0	.0	.1	7.2	
SW	.0	.0	.1	.3	1.4	.7	.3	.1	.0	.0	.0	8.8	
W	.0	.1	.0	.4	.7	.2	.1	.1	.0	.0	.0	2.5	
NW	.0	.0	.1	.3	.3	.2	.1	.0	.0	.0	.0	2.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.8	
TOT OBS	7	1	9	44	103	76	43	27	3	4	827	1140	
TOT PCT	.6	.1	.8	3.8	9.1	6.6	3.9	2.4	.3	.3	72.0	100.0	

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>8	>2	>1	>1/2	>1/4	>30YD	>0
>8000	.5	.6	.6	.6	.6	.6	.6	.6
>5000	1.7	1.8	2.2	2.4	2.4	2.4	2.4	2.4
>3000	4.4	3.3	6.1	6.3	6.3	6.3	6.3	6.3
>1000	9.6	11.0	12.6	12.8	12.8	12.8	12.8	12.8
>500	18.2	20.8	21.8	21.9	21.9	21.9	21.9	21.9
>300	17.8	24.2	23.4	23.7	23.9	23.9	23.9	23.9
>200	18.2	24.8	26.1	26.4	26.3	26.3	26.3	26.3
>150	18.2	24.9	26.2	26.3	26.4	26.4	26.4	26.4
>0	18.2	23.0	26.3	26.9	27.1	27.1	27.1	27.2
TOTAL	208	288	302	307	309	309	309	310

TOTAL NUMBER OF OBS: 1140

PCT FREQ NH <9/8 72.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	OBSCC	TOTAL OBS
19.3	13.8	14.9	13.2	7.9	3.3	6.9	6.2	9.8	.5		1218

PERIOD: (PRIMARY) 1912-1975
(OVER-ALL) 1861-1975

DECEMBER

AREA 0011 PORTO ALEGRE
30.65 49.0W

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
1/2<1	PCP	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.3
1/4<1	PCP	.1	.1	.1	.0	.1	.0	.1	.0	.0	.0	.0	.4
	NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.1	.1	.2	.0	.1	.0	.1	.0	.0	.0	.0	.5
2/8	PCP	.1	.2	.1	.0	.0	.1	.0	.1	.0	.0	.0	.4
	NO PCP	.1	.2	.2	.2	.1	.1	.0	.0	.0	.0	.0	1.1
	TOT %	.2	.4	.3	.2	.1	.1	.0	.1	.0	.0	.0	1.7
3/10	PCP	.2	.3	.2	.2	.3	.4	.0	.3	.0	.1	.1	2.3
	NO PCP	1.8	4.4	2.3	2.3	2.2	1.7	1.0	.4	.0	.1	.1	10.3
	TOT %	2.1	7.0	2.4	2.5	2.5	2.1	1.0	.7	.0	.1	.2	12.6
10+	PCP	.2	.2	.1	.1	.1	.0	.1	.1	.0	.0	.0	1.0
	NO PCP	9.1	23.0	11.2	7.1	8.7	9.0	2.3	2.3	.0	.7	.7	78.9
	TOT %	9.3	23.2	11.3	7.1	8.7	9.0	2.7	2.7	.0	.7	.7	79.9
TOT OBS													1473
TOT PCT		11.7	32.0	14.4	10.3	11.5	11.2	3.7	3.4	.0	.9	100.0	

TABLE 9

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

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
1/4<1	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2
	4-10	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.4
	11-21	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	TOT %	.2	.3	.2	.1	.1	.1	.0	.0	.0	.0	.0	1.1
2/8	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	4-10	.2	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.6
	11-21	.1	.4	.2	.1	.1	.2	.0	.1	.0	.0	.1	1.3
	22+	.1	.2	.1	.1	.1	.1	.0	.0	.0	.0	.0	.7
	TOT %	.4	.8	.5	.4	.2	.3	.1	.1	.0	.0	.0	2.8
3/10	0-3	.1	.1	.1	.2	.1	.0	.0	.0	.0	.1	.7	.7
	4-10	.6	1.6	.7	1.4	.7	.4	.4	.2	.0	.0	.4	6.3
	11-21	1.2	3.8	1.3	.7	.8	.5	.1	.3	.0	.0	.8	8.8
	22+	.6	1.4	.1	.1	.4	.4	.2	.1	.0	.0	.4	3.4
	TOT %	2.5	6.9	2.2	2.4	2.1	1.7	.7	.6	.0	.1	1.9	19.2
10+	0-3	.3	.3	.3	.4	.4	.4	.1	.1	.0	1.1	6.3	6.3
	4-10	3.3	7.7	3.2	3.1	3.6	2.3	1.3	1.8	.0	.0	30.5	30.5
	11-21	3.9	12.3	3.2	3.7	4.4	3.7	.7	.8	.0	.0	34.8	34.8
	22+	.8	2.8	.2	.2	.3	1.8	.3	.1	.0	.0	.6	6.6
	TOT %	8.3	24.0	11.1	9.4	8.7	8.4	2.3	2.8	.0	1.1	76.3	76.3
TOT OBS													3245
TOT PCT		11.8	32.1	14.0	12.3	11.2	10.4	3.2	3.5	.0	1.4	100.0	

DECEMBER

PERIOD: (PRIMARY) 1912-1975
(OVER-ALL) 1861-1975

AREA 0011 PORTO ALEGRE
30.6S 49.0W

TABLE 10

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

HR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	.7	.0	.7	3.5	7.4	7.1	3.9	1.1	.4	.0	24.7	75.3	283
0600	.3	.0	1.0	3.4	8.2	6.3	2.4	2.4	.7	1.0	23.9	76.1	293
1200	1.2	.3	.3	4.6	11.7	8.3	3.1	2.8	.0	.0	32.2	67.8	326
1800	.0	.0	1.0	3.1	7.6	3.5	3.9	3.1	.0	.3	24.6	75.4	289
TOT	7	1	9	44	105	76	45	28	3	4	322	869	1191
PCT	.6	.1	.6	3.7	8.8	6.4	3.8	2.4	.3	.3	27.0	73.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000	.1	.1	1.2	3.8	21.9	72.9	942
0600	.6	.3	.7	2.3	19.3	76.7	690
1200	.4	.3	1.3	2.8	18.2	77.0	990
1800	.2	.2	1.2	1.7	17.0	79.8	642
TOT	10	7	37	92	628	2490	3264
PCT	.3	.2	1.1	2.8	19.2	76.3	100.0

TABLE 12

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

HR (GMT)	<150 <500 FT	<600 FT	<1000 FT	1000- AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000	.7	1.3	3.9	19.7	74.3	289
0600	.4	1.4	6.0	19.9	74.0	281
1200	1.3	1.9	9.1	23.0	67.9	318
1800	.0	1.1	3.1	20.2	74.6	272
TOT	7	17	76	237	827	1140
PCT	.6	1.3	6.7	20.8	72.3	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
89/89	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
86/84	.0	.0	.1	.1	.3	.8	.1	.3	21	1.9
75/79	.0	.0	.0	.3	1.3	3.9	3.3	2.7	168	13.1
70/74	.0	.1	.1	2.0	7.8	13.7	18.3	13.1	638	37.3
69/69	.0	.0	.1	1.8	3.9	3.9	4.8	4.4	233	22.7
60/64	.0	.0	.0	.1	.8	.6	.3	.6	30	2.7
55/59	.0	.0	.0	.0	.0	.2	.0	.0	2	.2
TOTAL	0	1	3	48	182	297	323	127	1113	100.0
PCT	.0	.1	.3	4.3	16.4	26.7	29.2	23.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
89/89	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
86/84	.2	.7	.2	.4	.2	.6	.0	.1	.0	.0
75/79	3.2	6.3	1.3	.7	1.3	.4	.3	.6	.0	.2
70/74	8.0	21.4	6.9	3.3	3.3	3.0	2.8	2.3	.0	.3
69/69	.9	3.7	4.4	3.2	3.9	4.7	1.2	.7	.0	.0
60/64	.1	.2	.0	.3	.8	1.1	.0	.0	.0	.2
55/59	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
TOTAL	12.3	32.3	12.9	9.9	11.9	11.9	4.3	3.7	.0	.6

TABLE 15

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

HR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	83	77	75	71	64	61	58	70.6	1908
0600	79	74	74	70	64	60	57	69.8	1187
1200	87	82	78	73	66	63	56	72.4	2034
1800	86	83	80	73	66	63	59	73.2	1072
TOT	87	81	77	72	65	61	56	71.5	6222

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	2.4	14.7	26.0	28.1	26.7	80	286		
0600	.0	4.0	15.0	20.8	29.6	30.7	81	274		
1200	.0	3.7	15.3	23.6	32.0	21.2	79	316		
1800	.0	7.2	18.9	34.3	26.3	12.9	76	269		
TOT	0	34	185	299	329	240	79	1127		

DECEMBER

PERIOD: (PRIMARY) 1912-1975
(OVER-ALL) 1861-1975

AREA 0011 PORTO ALEGRE
30.05 49.0W

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	57 60	61 64	62 68	63 72	73 76	77 80	81 84	82 88	TOT	N FOG	NO FOG
11/15	.0	.0	.0	.0	.0	.4	.2	.3	11	.0	.4
9/10	.0	.0	.0	.0	.2	.8	.4	.0	18	.0	1.4
7/8	.0	.0	.0	.1	.4	.8	.2	.0	19	.0	1.4
6	.0	.0	.2	.0	.3	1.0	.1	.0	20	.0	1.3
5	.0	.0	.1	.2	.8	1.1	.1	.0	23	.1	2.4
4	.0	.1	.2	.2	1.7	2.3	1.1	.0	27	.0	4.3
3	.0	.2	.3	1.7	4.2	5.9	.2	.0	37	.0	3.2
2	.0	.2	.3	4.0	9.2	9.9	.8	.0	52	.0	9.9
1	.0	.3	2.1	9.2	20.3	18.8	.1	.0	132	.2	11.2
0	.0	.4	1.4	7.1	20.0	18.2	.0	.0	231	.0	18.8
-1	.0	.3	2.8	6.2	1.8	.2	.0	.0	148	.2	10.8
-2	.0	.1	1.7	4.1	.9	.1	.0	.0	90	.3	6.3
-3	.0	.3	2.9	2.3	.4	.0	.0	.0	74	.2	3.8
-4	.0	.1	1.7	.9	.1	.0	.0	.0	43	.0	3.2
-5	.1	.4	2.0	.3	.9	.0	.0	.0	25	.1	2.5
-6	.0	.3	1.3	.8	.1	.0	.0	.0	22	.0	1.7
-7/-8	.0	.4	.8	.4	.2	.0	.0	.0	3	.0	.4
-9/-10	.1	.3	.0	.0	.0	.0	.0	.0	3	.0	.2
-11/-13	.2	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
-14/-18	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-17/-19	.1	.0	.0	.0	.2	.0	.0	.0	1	.0	.1
TOTAL	6	46	213	559	979	114	12	4	1323	14	1319
PCT	.8	3.3	16.0	41.9	28.4	8.6	.9	.3	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

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

HEG	N					PCT	NE					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
41	.3	.0	.0	.0	.0	1.3	.2	.3	.0	.0	.0	.3
1-2	.0	3.1	.0	.0	.0	3.3	.3	4.5	2.2	.0	.0	7.1
3-4	.2	1.3	1.3	.2	.0	3.6	.0	1.9	0.6	.0	.0	12.1
5-6	.0	.2	2.1	.2	.0	2.6	.0	.3	2.2	1.2	.0	7.9
7	.0	.0	.6	1.0	.0	1.6	.0	.0	2.0	2.4	.0	4.4
8-9	.0	.0	.2	.0	.2	.4	.0	.0	1.0	.2	.0	1.2
10-11	.0	.0	.0	.2	.0	.2	.0	.0	.0	.9	.7	1.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.3	3.1	1.7	.2	13.3	.7	7.3	21.1	3.3	.7	33.2

HEG	E					PCT	SE					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
41	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
1-2	.0	3.0	2.0	.0	.0	4.9	.0	2.4	.3	.0	.0	3.0
3-4	.0	1.2	2.2	.0	.0	3.4	.0	1.3	2.6	.0	.0	3.8
5-6	.0	.9	2.0	.7	.0	3.9	.0	.3	.7	.2	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.7	.2	.0	.9
8-9	.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
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.0	4.6	.7	.0	12.5	.0	4.0	4.3	.3	.0	8.9

PERIOD: (OVER-ALL) 1953-1975

DECEMBER

AREA 0011 PORTO ALEGRE
30.65 49.0W

TABLE 18 (CONT)

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	1.0	.0	.0	.0	2.3	.0	1.8	.3	.0	.0	.0	2.3
3-4	.0	.8	2.7	.0	.0	.0	3.5	.0	.3	1.1	.0	.0	.0	1.6
5-6	.0	.4	2.0	1.0	.0	.0	4.3	.0	.1	1.5	1.3	.0	.0	2.8
7	.0	.0	.4	.4	.0	.0	.8	.0	.0	.3	.3	.0	.0	1.0
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.1	.0	.0	.3
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.8	.1	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.3
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	.2	.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	.0	2.7	7.4	1.7	.0	.0	11.8	.0	3.1	4.0	3.1	.3	.0	10.4

HGT	M						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
1-2	.2	1.1	.2	.0	.0	.0	1.6	.2	.3	.0	.0	.0	.0	.5
3-4	.0	.2	.8	.0	.0	.0	.8	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.0	.8	.0	.0	.0	.8	.0	.2	.3	.2	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.2	.2	.2	.0	.6	.0	.0	.2	.2	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.2	.2	.2	.0	.6	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.6	1.8	.6	.4	.0	4.6	.2	1.2	.6	.7	.0	.0	2.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.4	2.5	.0	.0	.0	.0	1.9	
1-2	1.4	17.7	2.3	.0	.0	.0	20.0	
3-4	.2	7.6	20.3	.9	.0	.0	29.0	
5-6	.0	2.5	16.8	4.8	.0	.0	24.2	
7	.0	.0	4.4	4.6	.0	.0	9.0	
8-9	.0	.0	1.6	.9	.2	.0	2.8	
10-11	.0	.0	.2	2.3	.9	.0	3.5	
12	.0	.0	.2	.3	.0	.0	.7	
13-16	.0	.0	.2	.2	.0	.0	.7	
17-19	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.0	30.4	30.7	14.3	1.6	.0	100.0	434

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	9.4	10.7	8.1	2.3	.5	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	313	4
6-7	.0	1.3	9.4	13.7	6.7	2.0	1.9	.6	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	365	6
8-9	.0	.0	2.9	3.2	3.9	1.6	1.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	129	6
10-11	.0	.4	.3	.3	.3	.8	.0	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	7
12-13	.0	.0	1.1	1.4	.3	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	6
>13	.0	.0	.0	.2	.0	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	6
INDET	1.1	1.4	2.7	1.1	.7	.3	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	4
TOTAL	28	118	256	284	135	35	45	14	10	4	0	0	0	0	0	0	0	0	0	947	5
PCT	2.7	12.5	27.0	30.0	14.3	3.8	4.8	1.3	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1854-1976

ANNUAL

AREA 0011 PORTO ALEGRE
30.85 49.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.1	1.1	1.0	.0	.0	.0	.1	3.3	2.1	4.0	2.7	.1	2.0	.0	84.3
NE	2.9	1.3	.9	.0	.0	.0	.0	3.4	1.6	2.1	2.4	.1	2.0	.0	86.7
E	3.9	2.3	1.9	.0	.0	.0	.1	8.0	2.7	.9	1.7	.1	.7	.1	88.0
SE	4.7	2.6	1.7	.0	.0	.0	.0	9.0	2.3	.9	1.4	.0	.2	.0	88.4
S	3.7	1.9	1.4	.0	.0	.0	.1	7.1	2.0	1.2	1.4	.1	.4	.0	88.1
SW	3.0	2.1	1.4	.0	.0	.0	.0	6.3	2.4	1.3	1.2	.1	.4	.0	88.2
W	2.7	2.1	1.0	.0	.0	.0	.0	3.8	1.3	1.7	1.3	.3	.8	.0	88.7
NW	3.1	1.7	2.0	.0	.0	.0	.0	8.7	2.4	2.7	2.7	.1	.8	.0	89.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALN	1.3	1.0	1.1	.0	.0	.0	.0	3.4	1.0	2.7	8.0	1.1	3.8	.0	86.1
TOT PCT	3.3	1.8	1.3	.0	.0	.0	.0	6.3	2.0	1.8	2.0	.1	1.1	.0	86.9
TOT OBS:	21596														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	3.6	2.1	1.1	.0	.0	.0	.1	6.7	1.5	3.7	1.9	.1	.9	.0	85.6
0600	3.7	1.7	1.0	.0	.0	.0	.0	6.7	2.3	3.2	1.8	.1	.8	.0	85.3
1200	2.7	1.8	1.0	.0	.0	.0	.1	3.9	1.9	.3	2.3	.2	1.4	.0	88.0
1800	3.2	1.6	1.2	.0	.0	.0	.0	6.0	2.2	.3	1.9	.1	1.4	.0	88.3
TOT PCT	3.3	1.8	1.3	.0	.0	.0	.0	6.3	2.0	1.9	2.1	.1	1.1	.0	86.8
TOT OBS:	22117														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-6	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.6	4.3	5.4	1.7	.2	.0	12.4	13.7	10.3	11.9	13.6	12.3	14.2	13.3	11.2	9.6
NE	.9	6.2	12.6	3.1	.2	.0	23.1	13.8	23.2	24.2	28.0	28.3	24.8	23.3	23.0	20.6
E	.7	3.5	3.0	.9	.1	.0	12.2	11.8	14.0	13.1	11.8	13.7	11.0	11.0	12.3	12.4
SE	.8	3.6	4.7	.9	.2	.0	11.9	11.8	12.3	12.4	11.0	8.7	10.7	11.0	11.3	11.3
S	.8	4.6	4.4	1.1	.2	.0	11.0	12.4	12.8	10.6	10.3	10.3	10.3	10.4	11.2	11.2
SW	.7	4.1	3.6	2.8	.6	.1	13.9	13.4	13.6	12.4	12.9	13.1	14.0	14.6	13.4	14.3
W	.6	2.0	2.1	1.3	.6	.1	6.3	10.0	3.3	3.7	6.2	6.9	7.3	7.8	6.3	6.9
NW	.4	2.4	1.7	.3	.1	.0	3.2	11.8	4.0	4.8	3.8	2.5	3.8	6.3	4.7	2.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALN	2.1	.0	.0	.0	.0	.0	2.1	.0	2.2	2.7	2.6	1.2	2.0	2.1	1.4	1.6
TOT OBS							84652	13.3	15147	10463	13214	120	13138	12612	14863	333
TOT PCT	7.3	34.8	41.1	12.4	2.2	.3		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40				00	03	06	09	12	15	18	21
N	2.3	5.9	3.6	.6	.1	12.4	13.7	11.0	13.6	12.3	14.2	13.3	11.2	9.6
NE	3.7	12.6	7.9	.9	.1	23.1	13.8	23.6	24.2	28.0	28.3	24.8	23.3	23.0
E	2.7	4.7	2.4	.4	.0	12.2	11.8	13.6	13.1	11.8	13.7	11.0	11.0	12.3
SE	2.9	4.1	2.0	.1	.1	11.9	11.8	12.3	12.4	11.0	8.7	10.7	11.0	11.3
S	2.6	5.5	2.4	.4	.1	11.1	12.4	11.9	10.3	10.4	10.4	10.4	10.4	11.6
SW	2.2	3.6	4.4	1.4	.3	13.9	13.4	13.1	12.9	14.2	13.4	14.2	13.4	14.3
W	1.2	2.3	1.7	.9	.3	6.3	10.0	3.4	3.7	6.2	6.9	7.3	7.8	6.3
NW	1.3	2.4	1.0	.3	.1	3.2	11.8	4.4	3.4	6.1	6.4	6.1	6.4	6.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALN	2.1	.0	.0	.0	.0	2.1	.0	2.4	2.3	2.0	1.4	1.4	1.4	1.4
TOT OBS						84652	13.3	23730	15734	2770	13398	13398	13398	13398
TOT PCT	21.2	47.1	25.4	3.3	.9		100.0	100.0	100.0	100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1834-1976

ANNUAL

AREA 0011 PORTO ALEGRE
30.63 49.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
0000Z	2.4	5.0	37.5	40.3	12.2	2.2	.3	13.2	100.0	25750
0600Z	2.5	3.3	37.2	41.0	11.6	1.9	.2	13.0	100.0	15784
1200Z	2.0	3.4	36.2	40.7	12.9	2.4	.3	13.4	100.0	27770
1800Z	1.4	4.8	35.9	42.1	12.6	2.0	.3	13.4	100.0	15998
TOT								13.3		84682
PCT	2.1	3.2	36.6	41.1	12.4	2.2	.3	100.0		

TABLE 5

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

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBS		
N	5.1	2.0	2.9	2.5	3.9	3.9
NE	10.7	4.5	7.3	4.6	3.9	3.9
E	4.0	2.9	3.3	3.0	4.5	4.5
SE	3.7	2.2	3.2	2.3	4.8	4.8
S	4.1	2.2	3.4	2.3	4.2	4.2
SW	4.8	2.9	4.2	2.6	4.1	4.1
W	2.2	.8	1.7	1.0	4.0	4.0
NW	1.6	.8	1.9	.8	3.9	3.9
VAR	.0	.0	.0	.0	.0	.0
CALM	.7	.1	.2	.3	2.0	2.0
TOT OBS					15815	4.1
TOT PCT	33.9	17.6	27.2	19.4	100.0	

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)										TOTAL OBS
	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	
N	.2	0	.2	.7	1.1	.7	.4	.1	.1	.1	9.0
NE	.3	1	.3	1.4	2.2	1.7	1.2	.3	.1	.1	19.3
E	.1	0	.2	.8	1.7	.9	.6	.2	.1	0	7.9
SE	.1	0	.2	.8	1.2	.9	.5	.2	.1	.1	6.3
S	.1	0	.2	.9	1.4	.9	.5	.1	0	.1	7.8
SW	.1	0	.2	1.0	1.8	.9	.7	.3	0	.1	9.3
W	0	0	.1	.4	.8	.4	.3	.1	0	0	3.6
NW	0	0	.1	.2	.6	.2	.1	0	0	0	2.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	0	.0	.0	.1	.1	0	0	0	.0	.0	1.0
TOT OBS	1.1	.2	1.4	6.3	10.0	6.5	4.6	1.6	.3	.3	66.8
TOT PCT											100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>9	>8	>7	>6	>5	>4	>3
>4500	.6	.9	.9	.9	.9	.9	.9	.9
>3000	1.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3
>1500	4.7	6.3	6.3	7.0	7.0	7.0	7.0	7.0
>1000	9.2	12.4	13.2	13.2	13.4	13.4	13.4	13.4
>800	16.3	22.2	23.7	23.8	23.9	23.9	24.0	24.0
>600	20.1	27.9	29.9	30.1	30.2	30.2	30.3	30.3
>400	20.7	29.0	31.3	31.3	31.6	31.7	31.7	31.7
>200	20.8	29.2	31.3	31.8	31.8	31.9	31.9	31.9
>0	20.9	29.6	32.1	32.4	32.6	32.8	33.0	33.1

TOTAL NUMBER OF OBS: 16015

PCT FREQ NH <4/8: 66.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
19.3	14.3	13.1	10.6	8.0	6.2	6.8	7.1	12.9	.8	17171

PERIOD: (PRIMARY) 1912-1971
(OVER-ALL) 1854-1976

ANNUAL

AREA 0011 PORTO ALEGRE
30.65 49.04

TABLE 8

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

VSDBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.2	.0	.0	.1	.1	.0	.0	.0	.0	.6	
	TOT %	.1	.2	.1	.0	.1	.1	.0	.0	.0	.0	.7	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
1<2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.9	
	TOT %	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.4	
2<5	PCP	.1	.3	.2	.2	.1	.1	.0	.1	.0	.0	1.1	
	NO PCP	.3	.7	.3	.2	.2	.2	.1	.1	.0	.1	2.2	
	TOT %	.4	.9	.5	.4	.3	.3	.1	.2	.0	.1	3.3	
5<10	PCP	.4	.7	.5	.4	.5	.3	.2	.2	.0	.0	3.4	
	NO PCP	3.1	6.0	3.6	2.1	2.2	2.8	1.5	1.0	.0	.2	21.5	
	TOT %	3.5	6.7	4.1	2.6	2.7	3.1	1.7	1.2	.0	.2	24.9	
10+	PCP	.1	.3	.2	.2	.2	.1	.0	.0	.0	.0	1.3	
	NO PCP	8.3	18.4	8.7	7.2	8.3	10.2	4.0	2.6	.0	.8	68.9	
	TOT %	8.4	18.7	8.9	7.4	8.5	10.3	4.1	2.7	.0	.8	70.2	
TOT OBS												21969	
TOT PCT		12.3	26.9	12.6	10.3	11.8	14.4	8.9	4.1	.0	1.3	100.0	

TABLE 9

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

VSDBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.2	.1	.1	.1	.1	.0	.0	.0	.0	.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	.1	.1	.1	.0	.0	.1	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.1	.2	.2	.1	.1	.1	.1	.0	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.2	.2	.2	.2	.1	.1	.1	.1	.0	.0	1.2	
	11-21	.2	.3	.2	.2	.2	.1	.1	.1	.0	.0	1.6	
	22+	.1	.2	.1	.1	.1	.2	.1	.0	.0	.0	.9	
	TOT %	.5	1.0	.6	.4	.4	.5	.2	.2	.0	.1	3.8	
5<10	0-3	.1	.2	.1	.1	.1	.1	.1	.1	.0	.3	1.1	
	4-10	.6	1.3	.9	1.0	.8	.8	.4	.5	.0	.8	6.7	
	11-21	1.4	2.9	1.1	.9	.9	1.1	.4	.4	.0	.0	9.1	
	22+	.3	1.1	.3	.3	.2	.3	.5	.1	.0	.0	3.9	
	TOT %	3.0	5.7	2.4	2.3	2.2	2.7	1.3	1.1	.0	.3	20.8	
10+	0-3	.4	.6	.5	.5	.5	.5	.3	.3	.0	1.3	4.7	
	4-10	3.4	6.6	4.5	4.2	3.6	3.3	1.6	1.9	.0	.0	29.1	
	11-21	4.0	9.7	3.8	2.9	3.7	4.9	1.7	1.0	.0	.0	31.7	
	22+	.8	1.7	.3	.4	.7	2.4	1.2	.2	.0	.0	7.8	
	TOT %	8.7	18.6	9.1	8.0	8.4	11.1	4.7	3.3	.0	1.3	73.3	
TOT OBS												44863	
TOT PCT		12.3	29.8	12.4	11.0	11.2	14.3	6.3	4.7	.0	1.7	100.0	

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1854-1976

ANNUAL

AREA 0011 PORTO ALEGRE
30.83 49.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >478) AND OCCURRENCE OF NH <578 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3000	5000	6000	8000+	TOTAL	NH <578 ANY HGT	TOTAL OBS
0000Z	1.2	.1	1.2	3.9	9.7	5.4	4.1	1.2	.4	.5	29.7	70.5	4101
0600Z	1.4	.2	1.5	3.7	9.9	5.4	3.6	1.2	.4	.5	29.8	70.2	4071
1201Z	1.1	.4	1.6	6.6	10.9	7.5	4.6	1.7	.7	.4	35.4	64.6	4348
1802Z	.7	.2	1.2	3.9	10.2	6.6	4.0	2.3	.4	.4	32.8	67.2	4209
TOT PCT	1.1	.2	1.4	6.1	10.2	6.3	4.3	1.6	.5	.4	32.0	68.0	16729 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000Z	.7	.3	1.0	3.6	22.5	71.9	13224
0600Z	.8	.3	.8	4.2	21.1	72.8	9420
1201Z	.4	.4	1.1	3.8	20.5	73.4	13369
1802Z	.7	.2	1.2	4.0	19.1	74.7	9182
TOT PCT	.8	.3	1.0	3.9	20.9	73.1	45398 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR CEILING HGT (FEET, NH >478) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <578 AND 5+	TOTAL OBS
0000Z	1.3	2.7	10.9	20.8	68.2	3896
0600Z	1.4	3.5	12.9	20.0	68.0	3881
1201Z	1.1	3.5	12.8	24.6	62.6	4167
1802Z	.8	2.8	11.7	29.0	65.3	4071
TOT PCT	1.1	3.1	11.9	22.7	66.0	18015 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85/89	.0	.0	.0	.1	.0	.1	.0	.0	.2	.2
80/84	.0	.0	.0	.1	.3	.0	.0	.2	2.1	2.1
75/79	.0	.0	.1	.4	1.4	4.1	3.4	2.8	14.7	14.7
70/74	.0	.0	.1	1.2	4.3	6.9	8.5	6.2	27.2	27.2
65/69	.0	.0	.1	1.3	3.8	5.6	8.2	7.2	26.9	26.9
60/64	.0	.0	.1	.9	3.4	4.2	3.7	4.7	19.2	19.2
55/59	.0	.0	.1	.3	1.3	2.0	2.6	1.7	8.9	8.9
50/54	.0	.0	.0	.1	.3	.9	.8	.2	2.1	2.1
45/49	.0	.0	.0	.0	.0	.1	.0	.0	.2	.2
40/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.3	4.4	18.3	26.7	31.9	22.9	16403	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

M	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0
.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
.4	.0	.2	.2	.1	.2	.1	.1	.0	.0
2.4	3.3	2.0	1.2	1.2	1.0	.4	.3	.0	.2
3.3	8.2	4.0	3.3	3.0	2.3	1.0	1.3	.0	.3
3.9	7.8	3.1	2.9	3.0	2.3	1.4	1.1	.0	.2
1.8	3.8	2.4	2.2	3.0	3.4	1.3	.7	.0	.3
.4	.8	.6	.6	1.3	3.0	1.3	.4	.0	.1
.0	.0	.0	.1	.4	.9	.3	.1	.0	.0
.0	.0	.0	.0	.1	.1	.1	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.4	26.6	12.5	10.5	12.1	14.3	6.0	4.1	.0	1.2

TABLE 15

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

HOUR (GMT)	MAX	95%	90%	50%	5%	MIN	MEAN	TOTAL OBS
0000Z	88	79	79	67	60	56	66.9	22617
0600Z	83	74	72	67	59	56	66.3	15731
1201Z	92	78	75	69	61	57	68.3	27064
1802Z	92	80	76	69	62	58	69.1	14887
TOT	92	77	75	68	60	56	67.6	83298

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	4.0	14.3	23.7	32.5	23.5	8.1	4517		
0600Z	.0	3.7	12.9	21.4	33.4	28.0	8.1	4039		
1201Z	.0	3.3	15.7	24.6	31.7	22.5	7.9	4440		
1802Z	.0	7.6	18.2	29.0	29.9	15.3	7.7	3798		
TOT	1	868	2357	4133	5362	3967	80	16790		

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1854-1976

ANNUAL

AREA 0011 PORTO ALEGRE
30.85 49.0W

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	45	49	53	57	61	65	69	73	77	81	85	89	TOT	FOG	WD
	48	52	56	60	64	68	72	76	80	84	88	92			
29/29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	*
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	.0	.1
11/13	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	86	.0	.5
9/10	.0	.0	.0	.0	.1	.1	.1	.1	.2	.1	.1	.1	134	.0	.7
7/8	.0	.0	.0	.0	.2	.2	.2	.2	.3	.2	.1	.1	283	.1	1.4
6	.0	.0	.0	.1	.2	.2	.2	.2	.2	.1	.1	.1	482	.1	1.2
5	.0	.0	.0	.2	.4	.5	.5	.4	.4	.1	.1	.1	485	.1	2.5
4	.0	.0	.1	.2	.8	1.0	.8	.7	.6	.2	.0	.0	822	.1	4.2
3	.0	.0	.1	.4	.8	1.0	.8	.9	.7	.2	.0	.0	948	.1	4.8
2	.0	.0	.2	.7	1.3	2.0	1.9	1.9	1.1	.1	.0	.0	1799	.2	9.1
1	.0	.0	.2	.7	1.3	2.0	2.4	2.3	1.3	.1	.0	.0	1987	.2	10.0
0	.0	.1	.2	.7	1.4	2.3	3.3	3.5	1.4	.1	.0	.0	2750	.2	13.9
-1	.0	.0	.2	.7	1.4	2.3	2.6	2.8	.7	.0	.0	.0	2138	.2	10.7
-2	.0	.1	.4	.9	1.7	2.4	2.6	2.4	.3	.0	.0	.0	2104	.2	10.6
-3	.0	.0	.3	.6	1.3	1.7	1.9	1.5	.1	.0	.0	.0	1437	.1	7.3
-4	.0	.1	.3	.7	1.4	1.6	1.5	.8	.1	.0	.0	.0	1283	.1	6.4
-5	.0	.1	.3	.7	1.1	1.2	.9	.4	.0	.0	.0	.0	880	.1	4.5
-6	.0	.0	.2	.5	.8	.7	.6	.2	.0	.0	.0	.0	606	.0	3.1
-7/8	.0	.1	.4	.9	1.1	.8	.3	.1	.0	.0	.0	.0	740	.0	3.8
-9/10	.0	.1	.2	.7	.5	.3	.1	.0	.0	.0	.0	.0	383	.0	2.0
-11/13	.0	.1	.3	.5	.2	.1	.0	.0	.0	.0	.0	.0	209	.0	1.1
-14/16	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	46	.0	.2
-17/18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	.0	.1
-20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.0
TOTAL													19424		
PCT	.1	.3	3.6	9.0	16.7	21.2	21.2	18.3	7.4	1.2	.2	*	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1948-1976

TABLE 18

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

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0
1-2	.1	1.9	1.0	.0	.0	.0	3.0	.3	4.0	2.1	.0	.0	.0	6.3
3-4	.0	1.0	2.7	.2	.0	.0	3.9	.0	2.3	3.7	.4	.0	.0	8.6
5-6	.0	.3	1.9	.4	.0	.0	2.6	.0	.3	4.6	.8	.0	.0	5.9
7	.0	.0	.7	.3	.0	.0	1.3	.0	.1	2.1	1.0	.0	.0	3.2
8-9	.0	.0	.3	.4	.0	.0	.6	.0	.0	.6	.3	.0	.0	1.2
10-11	.0	.0	.1	.2	.0	.0	.3	.0	.0	.2	.3	.1	.0	.6
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.9	6.6	1.8	.0	.0	12.7	.7	7.6	13.7	3.3	.1	.0	27.3

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
1-2	.2	2.9	1.1	.0	.0	.0	4.1	.3	2.2	.3	.0	.0	.0	3.0
3-4	.0	1.4	2.8	.1	.0	.0	4.3	.0	1.5	1.8	.0	.0	.0	3.4
5-6	.0	.3	1.3	.2	.0	.0	2.1	.0	.3	1.2	.1	.0	.0	1.7
7	.0	.0	.3	.2	.0	.0	.8	.0	.1	.7	.1	.0	.0	.9
8-9	.0	.0	.1	.2	.0	.0	.3	.0	.1	.1	.1	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.1	6.1	.7	.1	.0	12.3	.3	4.6	4.4	.3	.0	.0	10.1

PERIOD: (OVER-ALL) 1963-1976

ANNUAL

AREA 0011 PORTO ALEGRE
30.6S 49.0W

TABLE 18 (CONT)

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

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.3	.4	.8	.0	.0	.0	.7	.2	.4	.5	.0	.0	.0	.6		
1-2	.1	2.2	.8	.0	.0	.0	3.1	.1	1.8	.5	.0	.0	.0	2.3		
3-4	.1	1.4	2.0	.2	.0	.0	3.8	.0	1.0	2.6	.2	.0	.0	3.9		
5-6	.0	.4	1.9	.4	.0	.0	2.8	.0	.3	2.3	.8	.0	.0	3.4		
7	.0	.1	.8	.3	.0	.0	1.2	.0	.1	.9	.8	.0	.0	1.8		
8-9	.0	.0	.2	.1	.0	.0	.4	.0	.0	.5	.5	.0	.0	.9		
10-11	.0	.0	.1	.2	.0	.0	.3	.0	.0	.2	.4	.1	.0	.7		
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	.1	.0	.0	.3		
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.1	.0	.0	.2		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
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	4.5	5.8	1.4	.1	.0	12.2	.2	3.5	6.9	3.0	.4	.0	14.1		

HGT	S							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.1	.2	.0	.0	.0	.0	.3	.1	.3	.0	.0	.0	.0	.4			
1-2	.1	.9	.3	.0	.0	.0	1.3	.1	.7	.3	.0	.0	.0	1.1			
3-4	.0	.3	.6	.2	.0	.0	1.3	.1	.3	.5	.0	.0	.0	.9			
5-6	.0	.0	.6	.4	.0	.0	1.1	.0	.1	.4	.1	.0	.0	.6			
7	.0	.1	.3	.3	.0	.0	.8	.0	.0	.2	.1	.0	.0	.2			
8-9	.0	.0	.1	.1	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1			
10-11	.0	.0	.0	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.1			
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0			
13-16	.0	.0	.0	.1	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0			
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.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	1.7	1.9	1.3	.4	.0	5.7	.3	1.4	1.4	.4	.0	.0	3.5			

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.0	3.5	.2	.0	.0	.0	7.6	
1-2	1.3	16.6	6.5	.0	.0	.0	24.5	
3-4	.3	9.2	18.7	1.4	.0	.0	29.6	
5-6	.0	2.2	14.2	3.2	.1	.0	19.8	
7	.0	.5	6.0	3.3	.1	.0	9.9	
8-9	.0	.1	1.8	2.0	.1	.0	4.1	
10-11	.0	.0	.7	1.4	.2	.0	2.4	
12	.0	.1	.1	.3	.1	.0	.9	
13-16	.0	.1	.1	.3	.1	.0	1.0	
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	.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	5.9	32.2	46.3	12.4	1.0	.0	100.0	6237

PERIOD: (OVER-ALL) 1949-1975

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	
46	1.9	8.8	12.6	6.7	2.6	.9	.5	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4311	4	
6-7	.0	1.3	8.1	10.9	8.0	2.6	1.4	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4117	5	
8-9	.0	.3	1.9	3.8	4.6	2.4	1.3	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2043	7	
10-11	.0	.3	.4	.6	1.0	1.0	.3	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	621	8	
12-13	.0	.0	.4	.4	.2	.2	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	266	8	
313	.0	.0	.0	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	10	
INDY	1.7	1.9	2.8	2.2	1.4	.7	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1481	4	
TOTAL																					13122	5
PCT	3.6	12.6	26.2	24.6	16.0	8.0	4.5	1.9	1.6	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	100.0		

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1854-1976

AREA 0011 PORTO ALEGRE
30.65 49.0W

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
94+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/96	.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	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	4	.1
81/82	.5	1.4	.8	.1	.1	.0	.0	.0	.0	.0	.0	.1	203	.3
79/80	2.6	7.7	5.4	.6	.1	.0	.0	.0	.0	.0	.0	.0	1120	1.4
77/78	12.0	29.9	19.3	4.3	.3	.1	.0	.0	.0	.0	.0	.2	4119	5.1
75/76	25.9	31.1	29.0	14.8	2.6	.6	.1	.1	.1	.1	.1	.6	7472	9.2
73/74	32.2	29.8	28.4	23.8	10.0	2.3	.5	.2	.1	.9	4.9	22.9	10008	12.3
71/72	17.3	8.7	12.4	22.7	17.6	8.2	2.4	1.1	1.5	3.7	13.7	28.7	9294	11.4
69/70	6.4	2.4	4.4	10.1	20.0	11.7	7.4	4.8	5.0	8.7	22.3	22.1	8928	11.0
67/68	2.2	.6	1.4	9.4	18.2	13.4	12.0	12.0	12.3	19.0	23.3	11.9	9522	11.7
65/66	.6	.2	.4	3.8	13.5	14.3	17.7	14.1	15.3	20.5	19.7	4.2	7884	9.7
63/64	.2	.1	.2	2.2	10.3	15.6	14.3	16.0	18.8	20.4	11.0	1.3	7362	9.3
61/62	.1	.0	.0	.2	4.0	11.2	11.7	11.5	13.9	12.0	3.8	.3	4696	5.8
59/60	.0	.0	.0	.1	1.8	9.6	12.7	11.6	11.6	7.4	1.6	.0	3839	4.7
57/58	.0	.0	.0	.0	.9	3.9	11.2	10.5	9.6	4.1	.6	.0	2929	3.6
55/56	.0	.0	.0	.0	.3	3.2	8.2	9.8	7.1	2.2	.1	.0	2110	2.6
53/54	.0	.0	.0	.0	.1	1.2	3.8	5.4	2.6	.7	.0	.0	968	1.2
51/52	.0	.0	.0	.0	.0	.4	2.0	2.4	1.0	.1	.0	.0	406	.5
49/50	.0	.0	.0	.0	.0	.1	.7	.3	.0	.0	.0	.0	129	.2
47/48	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	24	.0
45/46	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	6	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	6469	5382	5943	7034	7380	7289	7043	6449	6322	6678	6630	6098	81271	180.0
MEAN	73.8	73.3	74.6	71.8	68.2	64.6	62.1	61.6	62.3	64.3	67.6	71.0	68.1	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1012	1012	1011	1012	1012	1012	1011	1012	1012	3527
FEB	1013	1013	1012	1011	1013	1014	1012	1011	1013	3503
MAR	1014	1014	1013	1013	1013	1013	1014	1013	1014	3649
APR	1016	1016	1016	1015	1017	1017	1016	1013	1016	4029
MAY	1018	1017	1017	1019	1018	1018	1017	1016	1017	4123
JUN	1018	1018	1018	1016	1019	1018	1017	1018	1018	3634
JUL	1020	1020	1020	1019	1021	1020	1019	1018	1020	3724
AUG	1019	1018	1018	1016	1020	1019	1018	1016	1019	3527
SEP	1018	1018	1017	1017	1019	1018	1017	1016	1018	3413
OCT	1017	1016	1016	1013	1017	1016	1016	1014	1016	3250
NOV	1014	1015	1013	1012	1013	1013	1014	1013	1014	3634
DEC	1012	1012	1011	1012	1013	1013	1012	1011	1012	3010
ANN	1016	1016	1015	1014	1017	1016	1015	1014	1016	4343
OBS	8283	3916	8440	528	8370	8178	8134	346		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	995	1000	1004	1009	1012	1013	1019	1021	1027
FEB	993	1002	1005	1010	1013	1016	1020	1022	1028
MAR	996	1003	1006	1011	1014	1017	1022	1023	1028
APR	999	1003	1007	1013	1016	1020	1024	1027	1031
MAY	994	1002	1008	1014	1018	1021	1026	1029	1032
JUN	993	1002	1007	1014	1018	1022	1027	1030	1033
JUL	993	1004	1010	1016	1020	1024	1029	1032	1037
AUG	992	1002	1005	1011	1019	1023	1028	1031	1037
SEP	997	1002	1007	1014	1018	1022	1027	1029	1033
OCT	992	1001	1006	1012	1016	1020	1025	1028	1033
NOV	991	1002	1006	1011	1014	1019	1022	1024	1030
DEC	991	998	1003	1009	1012	1016	1020	1023	1030

PERIOD: (PRIMARY) 1911-1973
(OVER-ALL) 1857-1973

JANUARY

AREA 0012 BUENOS AIRES
34.4S 52.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHNR	ORZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	1.9	.2	2.2	.0	.0	.0	.0	4.2	2.2	1.6	1.6	.0	1.4	.0	89.1
NE	2.3	.7	.9	.0	.0	.0	.0	3.9	1.5	1.2	1.4	.0	1.2	.0	90.9
E	2.4	1.8	1.2	.0	.0	.0	.0	3.4	.4	.5	1.6	.0	.5	.0	91.9
SE	1.9	1.6	.5	.0	.0	.0	.0	4.0	1.3	1.3	1.9	.0	.0	.0	91.6
S	3.8	2.4	1.1	.0	.0	.0	.0	7.0	1.3	.6	.4	.0	.0	.0	90.4
SW	2.4	1.3	.0	.0	.0	.0	.0	3.7	1.9	.6	.2	.0	.6	.0	93.4
W	3.3	.0	.0	.0	.0	.0	.0	3.5	.7	4.3	1.0	.0	.0	.0	91.1
NW	2.4	1.1	2.7	.0	.0	.0	.0	6.2	2.1	3.8	3.2	.0	1.1	.0	84.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	1.7	1.7	3.4	1.7	3.1	.0	.0	.0	89.8
TOT PCT	2.3	1.2	1.0	.0	.0	.0	.1	4.7	1.4	1.3	1.7	.0	.7	.0	90.7
TOT OBS:	1816														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHNR	ORZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
0800	2.4	1.4	.9	.0	.0	.0	.0	4.7	1.7	2.6	2.4	.0	.2	.0	88.9
0800	3.1	1.1	1.4	.0	.0	.0	.0	3.6	2.0	3.1	.6	.0	.3	.0	89.1
1215	1.9	1.2	1.0	.0	.0	.0	.2	4.2	.7	.3	1.2	.0	.7	.0	93.1
1821	2.8	.8	1.1	.0	.0	.0	.0	4.4	1.9	.2	1.7	.0	1.3	.0	90.3
TOT PCT	2.4	1.1	1.1	.0	.0	.0	.1	4.7	1.3	1.4	1.3	.0	.7	.0	90.7
TOT OBS:	1843														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.8	6.3	3.9	1.0	.0	.0	13.8	11.6	9.7	11.9	16.5	17.5	17.6	14.8	11.3	10.8
NE	.9	11.6	10.6	1.4	.0	.0	24.5	11.6	20.6	29.7	23.2	23.3	21.8	20.1	23.3	19.9
E	1.1	3.3	3.3	.8	.0	.0	15.6	10.4	17.6	18.4	13.7	19.7	12.8	14.3	14.6	22.8
SE	.8	6.7	3.2	1.2	.1	.0	16.1	11.9	17.6	16.2	13.1	11.6	12.3	13.8	13.0	14.6
S	.8	4.4	4.9	1.6	.2	.0	12.1	13.4	12.3	10.0	9.6	11.5	12.4	11.9	13.0	13.9
SW	.4	2.7	2.9	1.3	.4	.1	7.9	13.6	5.8	7.0	6.1	6.1	7.9	9.9	9.9	7.5
W	.5	1.9	1.1	.3	.1	.1	4.0	12.2	2.6	1.4	3.1	4.1	4.6	3.6	3.9	4.3
NW	.5	3.7	2.8	.4	.0	.0	5.8	10.7	3.4	4.6	3.6	3.1	7.7	7.4	4.2	3.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3	.0	.0	.0	.0	.0	2.3	.0	3.0	.8	4.0	1.0	2.9	1.7	2.6	1.4
TOT OBS	498	2702	2318	504	51	20	6090	11.7	1059	727	533	390	1083	1043	774	339
TOT PCT	8.2	44.4	38.0	8.3	.8	.3	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40					00	03	06	09	12	15	18	21
N	3.1	7.7	2.9	.2	.0	13.8	11.6	10.6	17.1	16.3	11.2					
NE	3.0	14.0	3.2	.3	.0	24.6	11.6	23.1	25.3	21.0	23.6					
E	4.6	3.4	2.3	.2	.0	15.6	10.4	17.9	13.8	13.6	17.2					
SE	3.4	7.5	2.7	.3	.0	16.1	11.9	16.7	12.4	13.0	13.5					
S	2.7	3.2	3.5	.6	.1	12.1	13.4	11.3	10.3	12.1	14.6					
SW	1.6	3.2	2.1	.7	.3	7.9	13.6	6.3	7.3	8.9	9.2					
W	1.3	1.8	.6	.1	.1	4.0	12.2	2.1	4.7	3.2	4.0					
NW	1.6	2.9	.8	.1	.0	5.8	10.7	3.9	3.8	7.6	4.5					
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	2.3	.0	.0	.0	.0	2.3	.0	2.1	2.9	2.3	2.2					
TOT OBS	1376	3085	1224	171	34	6090	11.7	1786	1043	2128	1133					
TOT PCT	23.9	50.7	20.1	2.8	.6	100.0		100.0	100.0	100.0	100.0					

JANUARY

PERIOD: (PRIMARY) 1011-1975
(OVER-ALL) 1057-1975

AREA 0012 BUENOS AIRES
34.65 52.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-35	34-47				
0000Z	2.1	4.6	42.9	40.1	8.8	1.1	.4	12.2	100.0	1784
0600Z	2.9	5.9	44.1	38.4	7.7	.8	.3	11.6	100.0	1043
1200Z	2.2	6.8	43.9	35.7	8.1	.9	.3	11.4	100.0	2128
1800Z	2.2	5.9	44.1	38.7	8.3	.4	.3	11.7	100.0	1133
TOT	148	355	2702	2315	504	51	20	11.7		6090
PCT	2.8	5.8	44.4	38.0	8.3	.8	.3	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
NE	0.7	4.6	7.1	3.0	3.6	3.6
E	4.4	3.0	3.4	1.4	3.7	3.7
SE	3.1	2.9	3.7	1.0	3.6	3.6
S	3.2	4.2	3.4	1.8	3.7	3.7
SW	2.3	3.2	2.3	1.0	3.8	3.8
W	1.8	.4	.9	.3	3.3	3.3
NW	2.8	.9	.9	.9	3.4	3.4
VAR	.0	.0	.0	.0	.0	.0
CALM	2.4	.4	.6	.8	.8	.8
TOT OBS	461	251	298	139	1149	3.6
TOT PCT	40.1	21.8	25.9	12.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >478)
AND OCCURRENCE OF NH <478 BY WIND DIRECTION

WIND DIR	000	150	300	400	1000	2000	3000	3000	6000	8000+	NH <478 ANY HGT	TOTAL OBS
N	.2	.0	.1	.4	.7	1.5	.9	.8	.1	.1	.0	10.2
NE	.4	.0	.1	.8	1.3	2.7	.8	.2	.1	.1	.2	19.0
E	.0	.0	.1	.2	.8	.7	.8	.3	.0	.0	.1	9.4
SE	.1	.0	.1	.2	.8	.7	1.0	.1	.1	.1	.0	9.7
S	.0	.0	.1	.1	1.4	1.6	1.0	.0	.0	.0	.0	10.7
SW	.0	.0	.0	.1	.3	2.0	.3	.1	.0	.0	.0	6.1
W	.0	.0	.0	.1	.2	.3	.2	.0	.0	.0	.0	2.2
NW	.1	.0	.0	.1	.6	.3	.2	.1	.1	.1	.0	3.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2	.0	.1	.0	.2	.5	.2	.0	.0	.0	.0	2.9
TOT OBS	11	0	4	22	72	119	54	10	6	3	846	1149
TOT PCT	1.0	.0	.3	1.9	6.3	10.4	4.7	.9	.1	.4	73.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >478) AND VSBY (M-)

CEILING (FEET)	VSBY (M)				OR			
	>10	>3	>2	>1	>1/2	>1/4	>3000	>0
>6000	.0	.0	.0	.0	.0	.1	.8	.8
>5000	1.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6
>4000	4.3	5.7	5.9	6.0	6.3	6.3	6.3	6.3
>3000	11.2	15.3	16.1	16.2	16.6	16.6	16.6	16.6
>2000	14.8	21.1	22.4	22.5	22.9	22.9	22.9	22.9
>1000	19.9	22.8	24.3	24.4	24.8	24.8	24.8	24.8
>500	10.1	23.2	24.8	24.9	25.3	25.3	25.3	25.3
>150	10.1	25.2	24.8	24.9	25.3	25.3	25.3	25.3
>0	10.1	25.3	25.3	25.3	25.3	25.3	25.3	25.3
TOTAL	167	270	293	295	300	302	302	300

TOTAL NUMBER OF OBS: 1159

PCT FREQ NH <478: 73.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
28.6	14.4	14.2	10.9	8.6	4.9	7.8	6.8	8.3	.8	1308

PERIOD: (PRIMARY) 1911-1975
(OVER-ALL) 1857-1975

JANUARY

AREA 0012 BUENOS AIRES
34.4S 52.7W

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.3	.2	.0	.1	.0	.0	.1	.0	.1	.8	
	TOT %	.1	.3	.2	.0	.1	.0	.0	.1	.0	.1	.9	
1/2<1	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.3	
1<2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	NO PCP	.1	.3	.0	.0	.0	.0	.0	.1	.0	.0	.4	
	TOT %	.1	.3	.1	.0	.0	.0	.0	.1	.0	.1	.6	
2<3	PCP	.0	.2	.1	.1	.2	.0	.1	.1	.0	.0	.7	
	NO PCP	.3	.6	.3	.2	.3	.2	.0	.1	.0	.0	2.0	
	TOT %	.3	.8	.4	.3	.4	.2	.1	.1	.0	.0	2.7	
3<10	PCP	.4	.4	.4	.2	.4	.3	.2	.2	.0	.0	2.3	
	NO PCP	2.6	4.6	3.8	2.3	1.7	1.2	.8	1.2	.0	.3	18.9	
	TOT %	3.0	5.0	4.2	2.7	2.1	1.6	.9	1.3	.0	.3	21.4	
10+	PCP	.2	.2	.2	.1	.3	.0	.0	.1	.0	.0	1.1	
	NO PCP	10.1	16.6	10.2	9.9	10.3	6.8	3.0	3.4	.0	2.7	73.0	
	TOT %	10.3	16.7	10.4	9.9	10.7	6.8	3.0	3.5	.0	2.7	74.1	
TOT OBS												1814	
TOT PCT												14.0 23.4 13.3 13.1 13.3 8.3 4.0 3.1 .0 3.3 100.0	

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.2	.1	.0	.0	.0	.0	.1	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.2	.1	.0	.0	.0	.0	.1	.0	.0	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	.7	
2<3	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.2	.4	.1	.1	.2	.2	.0	.0	.0	.0	1.3	
	11-21	.1	.3	.1	.0	.2	.1	.0	.0	.0	.0	1.1	
	22+	.0	.1	.1	.1	.0	.1	.0	.0	.0	.0	.4	
	TOT %	.4	1.0	.4	.3	.4	.3	.1	.1	.0	.0	2.9	
3<10	0-3	.1	.1	.1	.2	.1	.1	.0	.1	.0	.2	.9	
	4-10	.8	1.8	1.3	1.0	.8	.4	.4	.3	.0	.0	6.5	
	11-21	1.4	2.2	1.4	.9	.9	.6	.3	.4	.0	.0	8.2	
	22+	.1	.4	.3	.4	.3	.1	.1	.0	.0	.0	2.2	
	TOT %	2.4	4.5	3.3	2.5	2.0	1.3	.7	.9	.0	.2	17.8	
10+	0-3	.4	.6	.4	.3	.4	.3	.4	.3	.0	2.2	3.2	
	4-10	3.2	8.5	6.0	3.3	3.3	2.0	1.2	2.0	.0	.0	33.5	
	11-21	4.8	8.7	4.3	4.5	4.9	2.7	1.0	1.6	.0	.0	32.7	
	22+	.7	1.0	.4	.6	1.6	1.3	.2	.2	.0	.0	6.4	
	TOT %	11.2	18.8	11.2	10.9	10.3	6.4	2.8	4.0	.0	2.2	77.7	
TOT OBS												2897	
TOT PCT												14.2 24.8 13.1 13.8 12.7 8.0 3.6 3.2 .0 2.6 100.0	

JANUARY

PERIOD: (PRIMARY) 1911-1973
(OVER-ALL) 1957-1973

AREA 0012 BUENOS AIRES
34.4S 52.7W

TABLE 10

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

HOUR (GMT)	000	100	200	300	400	500	600	700	800	900	1000	1500	2000	3000	4000	5000	6000	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000Z	1.9	.0	.7	1.3	6.4	9.4	4.9	.7	.7	.4	26.6	73.4	267								
0600Z	1.2	.0	.0	.4	6.3	6.9	2.8	.4	.0	.0	18.3	81.7	246								
1201Z	.8	.0	.8	2.5	6.1	10.4	4.9	1.4	.0	.3	27.4	72.6	369								
1802Z	.3	.0	.3	2.2	5.2	10.7	4.4	.5	.5	.8	24.8	75.2	367								
TOT	11	0	6	22	76	119	34	10	4	5	307	939	1245								
PCT	.9	.0	.5	1.8	6.1	9.6	4.3	.8	.3	.4	24.7	75.3	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
0000Z	.9	.1	.4	3.6	19.1	73.8	768
0600Z	.4	.2	.4	3.1	21.2	74.8	332
1201Z	.6	.4	.7	2.4	16.3	79.4	943
1802Z	.5	.2	1.1	2.4	15.8	80.1	883
TOT	18	7	19	84	523	2273	2926
PCT	.6	.2	.6	2.9	17.9	77.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <30VD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000Z	2.0	3.2	7.7	20.6	71.8	248
0600Z	1.3	1.7	3.0	16.3	80.3	231
1201Z	.6	1.8	6.7	24.9	88.6	327
1802Z	.3	.8	3.1	21.3	73.4	333
TOT	11	31	66	243	848	1139
PCT	.9	1.8	9.7	21.1	73.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.1	.0	.0	.0	.0	.0	.0	1	.1
85/89	.0	.0	.3	.1	.2	.0	.2	.0	8	.8
80/84	.0	.0	.0	.2	.7	1.1	.8	.0	28	2.7
75/79	.0	.0	.0	.4	1.9	4.7	4.8	3.1	153	15.0
70/74	.0	.0	.4	2.0	5.4	9.8	13.2	13.0	473	45.8
65/69	.0	.0	.3	2.1	4.7	7.0	7.2	6.2	284	27.3
60/64	.0	.0	.0	.6	2.9	1.8	1.3	.8	72	7.0
55/59	.0	.0	.0	.0	.7	.2	.5	.1	10	1.0
50/54	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
TOTAL	.0	1	10	34	162	233	309	239	1032	100.0
PCT	.0	.1	1.0	3.4	15.7	24.7	29.9	23.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
85/89	.0	.4	.1	.0	.0	.0	.1	.2	.0	.0
80/84	.7	1.1	.3	.3	.0	.1	.0	.2	.0	.0
75/79	3.0	4.7	2.1	1.2	.6	1.0	1.4	.0	.1	.0
70/74	7.8	12.3	7.7	3.3	3.1	2.9	7.6	2.3	.0	.3
65/69	2.8	3.8	6.3	3.8	4.4	1.7	.9	.8	.0	.3
60/64	.3	.2	.0	.8	2.3	1.7	.6	.4	.0	.2
55/59	.8	.0	.2	.2	.0	.4	.0	.0	.0	.1
50/54	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	14.6	22.3	16.7	13.7	12.7	8.8	4.2	3.3	.0	1.2

TABLE 15

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

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	86	80	76	70	63	58	34	70.1	1773
0600Z	84	77	74	69	62	57	32	69.0	1039
1201Z	91	82	78	72	64	60	36	71.3	2067
1802Z	91	83	81	73	64	61	38	73.1	1690
TOT	91	82	78	71	63	58	32	70.5	3970

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	3.0	12.0	23.9	32.8	26.3	81	239		
0600Z	.0	1.0	13.0	20.3	32.8	32.3	82	192		
1201Z	.0	6.1	12.8	28.0	29.3	23.7	80	329		
1802Z	.0	12.1	24.3	24.3	26.0	12.8	73	273		
TOT	0	69	163	240	316	243	79	1039		

JANUARY

PERIOD: (PRIMARY) 1911-1973
(OVER-ALL) 1857-1973

AREA 0012 BUENOS AIRES
34.43 52.7W

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	53	57	61	65	69	73	77	81	85	89	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
14/16	.0	.0	.0	.0	.1	.0	.0	.1	.3	.1	8	.1	.4
11/13	.0	.0	.0	.1	.1	.2	.1	.2	.1	.1	14	.1	.8
9/10	.0	.0	.0	.0	.2	.2	.4	.1	.1	.1	19	.1	1.1
7/8	.0	.0	.0	.1	.5	.8	1.3	.2	.1	.0	50	.0	3.0
6	.0	.0	.0	.1	.1	.3	1.0	.2	.0	.0	32	.0	1.9
5	.0	.0	.1	.2	1.1	1.6	1.6	.2	.0	.0	82	.1	4.8
4	.0	.0	.1	.7	1.4	2.6	1.3	.2	.0	.0	106	.2	6.1
3	.0	.1	.1	1.1	1.1	2.7	.9	.0	.0	.0	82	.2	4.7
2	.0	.0	.3	.6	3.3	4.6	.8	.1	.0	.0	163	.3	9.2
1	.0	.0	.1	.6	3.7	3.8	.4	.1	.0	.0	147	.1	8.7
0	.1	.0	.3	2.1	6.6	4.0	.7	.0	.0	.0	232	.1	13.6
-1	.0	.0	.4	1.2	3.8	1.7	.2	.0	.0	.0	186	.1	9.1
-2	.0	.0	.8	1.8	3.0	1.3	.1	.0	.0	.0	192	.1	9.0
-3	.1	.0	.7	2.4	4.0	.7	.1	.0	.0	.0	133	.0	7.9
-4	.0	.2	.4	2.8	1.7	.2	.0	.0	.0	.0	90	.0	3.3
-5	.0	.1	.9	2.2	1.1	.1	.1	.0	.0	.0	76	.2	4.3
-6	.0	.1	.7	1.1	.4	.0	.0	.0	.0	.0	40	.0	2.4
-7/+8	.1	.2	2.0	1.1	.4	.1	.0	.0	.0	.0	63	.0	3.9
-9/+10	.0	.1	.7	.3	.1	.0	.0	.0	.0	.0	20	.0	1.2
-11/+13	.0	.3	.3	.2	.0	.0	.0	.0	.0	.0	14	.0	.8
-14/+16	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	3	18	132	307	618	423	143	29	3	3	1883	1.6	108.4
PCT	.2	1.1	7.8	17.0	36.7	23.1	8.6	1.7	.7	.2	100.0	1.6	98.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

HGT	N					PCT	NE					PCT	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
01	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.6	.7	.0	.0	2.2	.0	2.3	1.2	.0	.0	.0	4.9
3-4	.2	1.9	2.5	.0	.0	4.6	.0	2.9	3.9	.3	.0	.0	7.2
5-6	.8	.3	2.2	.3	.0	2.8	.0	1.1	3.3	.6	.0	.0	5.0
7	.0	.0	1.1	.2	.0	1.3	.0	.0	2.9	.7	.0	.0	3.6
8-9	.0	.0	.3	.3	.0	.7	.0	.0	1.1	.3	.0	.0	1.6
10-11	.0	.0	.0	.3	.0	.3	.0	.0	.3	.2	.0	.0	.8
12	.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
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.6	4.9	1.1	.0	12.7	.3	9.9	12.8	2.4	.0	.0	23.3

HGT	E					PCT	SE					PCT	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
01	.0	1.9	.3	.0	.0	1.3	.0	.0	.0	.0	.0	.0	1.4
1-2	.2	1.9	.8	.0	.0	2.9	.0	2.1	1.3	.0	.0	.0	3.3
3-4	.0	1.3	1.6	.3	.0	3.2	.0	.6	2.8	.0	.0	.0	3.4
5-6	.0	.2	1.8	.0	.0	2.0	.0	.7	1.3	.2	.0	.0	2.2
7	.0	.0	.5	.3	.0	1.1	.0	.2	1.0	.2	.0	.0	1.4
8-9	.0	.0	.9	.0	.0	.2	.0	.3	.4	.2	.0	.0	1.1
10-11	.0	.0	.2	.0	.0	.2	.0	.0	.3	.2	.0	.0	.3
12	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.4	3.8	.9	.0	11.3	.3	4.8	7.1	.9	.0	.0	13.3

PERIOD: (OVER-ALL) 1949-1975

JANUARY

AREA 0012 BUENOS AIRES
34.43 52.7M

TABLE 18 (CONT)

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.8	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
1-2	.2	1.4	.7	.0	.0	.0	2.3	.0	.0	.3	.0	.0	.0	1.3
3-4	.0	1.2	1.1	.2	.0	.0	2.4	.2	.9	.8	.0	.0	.0	1.9
5-6	.0	.2	2.1	.2	.0	.0	2.4	.0	.3	.3	.5	.0	.0	1.1
7	.0	.1	2.0	.5	.0	.0	2.6	.0	.2	.8	.2	.0	.0	1.2
8-9	.0	.0	.9	.8	.0	.0	1.6	.0	.2	1.1	.7	.2	.0	2.2
10-11	.0	.0	.8	.7	.0	.0	1.2	.0	.0	.9	.0	.0	.0	1.2
12	.0	.0	.8	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.7	7.3	2.5	.0	.0	14.0	.2	2.6	4.1	1.8	.2	.0	8.8

HGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.1	.0	.0	.0	.0	.4	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.7	.0	.0	.0	.0	.7	.2	1.4	.3	.0	.0	.0	1.9
3-4	.0	.1	.9	.0	.0	.0	1.1	.0	.0	.9	.0	.0	.0	1.9
5-6	.0	.3	.2	.0	.0	.0	.4	.0	.1	.3	.0	.0	.0	.3
7	.0	.0	.2	.2	.0	.0	.3	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.3	1.6	.2	.0	.0	3.3	.2	2.3	1.9	.3	.0	.0	4.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	8.3	6.9	.3	.0	.0	.0	13.1	085
1-2	.9	13.6	3.1	.0	.0	.0	17.6	
3-4	.3	9.4	14.3	.9	.0	.0	25.0	
5-6	.0	3.1	11.2	1.7	.0	.0	16.0	
7	.0	.3	8.8	2.4	.0	.0	11.7	
8-9	.0	.3	4.3	2.7	.2	.0	7.5	
10-11	.0	.0	2.4	1.9	.0	.0	4.3	
12	.0	.0	.3	.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	33.3	46.8	9.9	.2	.0	100.0	388

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

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

PERIOD (SECS)	<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
<1	2.9	10.6	17.3	8.1	3.8	1.8	.8	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	459	4
1-2	.0	1.6	4.3	7.8	5.4	2.9	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	231	6
3-4	.0	.2	1.3	2.3	1.9	1.2	.8	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	6
5-6	.0	.0	.3	.3	.1	.3	.2	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	3
7-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	2
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	153	9
15-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1903	4
TOT PCT	9.3	17.8	28.0	20.9	12.9	7.4	3.1	.9	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1912-1976
(COVER-ALL) 1884-1976

FEBRUARY

AREA 0012 BUENOS AIRES
34.95 52.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZM PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWC DUST	NO SIG WEA
N	1.8	.8	.7	.0	.0	.0	.0	3.3	2.7	1.4	2.7	.0	.3	.0	90.3
NE	2.3	.4	.2	.0	.0	.0	.0	2.8	.5	1.3	1.3	.0	.0	.0	94.2
E	2.6	.3	.9	.0	.0	.0	.0	4.0	2.8	1.3	.3	.0	.0	.0	92.3
SE	3.4	1.4	1.0	.0	.0	.0	.0	3.8	.5	1.8	.5	.0	.0	.0	92.2
S	3.3	2.3	1.2	.0	.0	.0	.0	6.8	1.7	1.2	.0	.0	.0	.0	90.4
SW	3.7	1.9	.5	.0	.0	.0	.0	6.1	1.7	2.8	.0	.0	.8	.0	89.9
W	1.7	.0	.0	.0	.0	.0	.0	1.7	.8	.8	.0	.0	.0	.0	97.1
NW	1.7	.8	.0	.0	.0	.0	.0	2.5	1.1	1.3	.0	.0	.0	.0	95.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
CALM	2.7	.0	4.1	.0	.0	.0	.0	6.8	.0	2.7	1.4	.0	1.4	.0	87.8
TOT PCT	2.6	.9	.7	.0	.0	.0	.0	4.2	1.4	1.8	.8	.0	.2	.0	92.3
TOT OBS:	2192														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZM PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWC DUST	NO SIG WEA
0000	3.3	.4	1.2	.0	.0	.0	.0	4.9	1.4	4.3	1.6	.0	.0	.0	89.1
0600	3.0	1.3	.9	.0	.0	.0	.0	3.4	1.8	3.8	.2	.0	.0	.0	90.6
1200	3.0	1.2	.3	.0	.0	.0	.0	4.8	1.3	.3	.7	.0	.3	.0	93.1
1800	1.3	.5	.5	.0	.0	.0	.0	2.4	1.4	.2	.7	.0	.7	.0	94.5
TOT PCT	2.7	.9	.7	.0	.0	.0	.0	4.2	1.4	1.7	.8	.0	.3	.0	92.0
TOT OBS:	2196														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.8	6.3	3.9	.7	.0	.0	13.8	11.4	8.9	14.3	14.0	19.2	18.4	13.8	11.3	12.3
NE	.9	10.9	11.2	1.3	.1	.0	24.4	11.8	27.7	29.3	26.1	29.0	20.3	20.3	29.7	21.3
E	.8	8.1	6.1	.5	.0	.0	19.6	10.6	19.9	17.1	13.8	12.8	13.2	14.3	15.5	14.2
SE	.7	6.1	4.7	.7	.1	.0	12.4	11.1	14.9	12.7	10.8	10.3	10.9	12.8	11.9	10.8
S	.9	4.2	4.9	1.3	.2	.0	11.3	13.0	12.0	10.7	11.7	11.2	10.4	10.1	14.3	12.3
SW	.6	3.1	2.9	1.3	.3	.1	8.2	14.3	7.7	3.3	7.9	7.7	8.3	9.4	10.3	8.7
W	.4	2.1	1.3	.4	.0	.0	4.3	11.6	3.0	3.2	4.3	3.4	6.0	6.4	4.0	4.8
NW	.3	2.3	2.2	.5	.0	.0	6.3	11.2	3.6	4.3	6.6	6.8	8.9	9.8	3.0	3.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0						3.0	.0	2.4	2.4	4.8	3.3	3.6	2.7	2.3	1.3
TOT OBS	563	2876	2363	441	33	7	6303	11.4	1142	726	743	421	1211	1019	846	393
TOT PCT	6.7	44.2	39.4	6.8	.8	.1	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40					00	03	09	12	18	21	
N	3.0	8.0	2.6	.2	.0	13.8	11.4	11.1	15.9	14.3	11.7				
NE	4.3	14.7	3.0	.3	.0	24.4	11.8	20.4	23.7	20.4	24.3				
E	4.1	8.9	2.6	.1	.0	19.6	10.6	18.8	13.4	13.8	16.3				
SE	3.2	6.7	2.2	.2	.0	12.4	11.1	14.1	10.7	11.7	12.6				
S	2.8	3.0	3.2	.4	.1	11.3	13.0	11.3	11.3	10.3	13.7				
SW	1.9	3.4	2.2	.6	.2	8.2	14.3	6.8	7.8	8.8	9.8				
W	1.3	1.8	1.0	.2	.0	4.3	11.6	3.1	4.0	6.2	4.2				
NW	1.9	3.3	1.2	.2	.0	6.3	11.2	3.9	6.7	9.3	3.2				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	3.0					3.0	.0	2.3	4.3	3.2	2.2				
TOT OBS	1978	3371	1291	141	22	6303	11.4	1869	1186	2230	1239				
TOT PCT	23.8	31.8	19.9	2.2	.3	100.0		100.0	100.0	100.0	100.0				

FEBRUARY

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1864-1976

AREA 0012 BUENOS AIRES
34.35 52.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+				
0800	2.5	5.0	43.0	41.0	7.5	.8	.2	11.7	100.0	1800	
0830	4.3	3.2	42.0	40.1	7.5	.9	.0	11.5	100.0	1100	
1215	3.2	0.5	45.4	37.8	6.2	.9	.0	11.1	100.0	2230	
1821	2.2	5.0	46.1	39.2	6.1	.6	.2	11.3	100.0	1239	
TOT	194	269	2876	2563	441	53	7	11.4		6503	
PCT	3.0	5.7	44.2	39.4	6.8	.8	.1		100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										
							000 149	150 299	300 999	600 999	1000 2499	2000 4999	3000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	7.6	1.9	2.4	1.3		2.7	.1	.1	.1	.2	.9	.7	.4	.1	.1	10.4	
NE	11.3	4.9	3.3	2.8		3.2	.2	.0	.3	1.3	2.1	1.1	.8	.1	.0	18.6	
E	5.8	2.6	4.9	1.6		3.7	.1	.1	.3	1.3	1.3	.6	.2	.0	.1	10.6	
SE	4.1	2.1	2.0	.8		3.7	.0	.0	.1	.6	1.0	.3	.0	.0	.1	7.0	
S	4.8	3.3	3.6	1.7		3.7	.1	.0	.3	1.4	1.4	.5	.1	.0	.1	9.3	
SW	2.3	2.1	2.9	1.4		4.2	.1	.0	.4	.7	1.7	.1	.1	.0	.1	5.4	
W	3.5	.9	1.0	.4		2.5	.0	.0	.1	.2	.7	.1	.0	.1	.0	4.6	
NW	3.9	.7	1.1	.7		2.7	.0	.0	.0	.2	.4	.4	.1	.1	.0	3.1	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.5	.0	.0	.0	1487	2.7	.0	.0	.0	.3	.2	.3	.0	.4	.0	3.1	
TOT OBS	474	176	348	162	1487	3.3	7	2	3	33	97	142	32	27	3	1080	
TOT PCT	46.3	18.9	23.7	11.1	100.0		.5	.1	.2	2.4	6.7	9.7	3.6	1.9	.3	74.1	

TABLE 6

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										
							000 149	150 299	300 999	600 999	1000 2499	2000 4999	3000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	7.6	1.9	2.4	1.3		2.7	.1	.1	.1	.2	.9	.7	.4	.1	.1	10.4	
NE	11.3	4.9	3.3	2.8		3.2	.2	.0	.3	1.3	2.1	1.1	.8	.1	.0	18.6	
E	5.8	2.6	4.9	1.6		3.7	.1	.1	.3	1.3	1.3	.6	.2	.0	.1	10.6	
SE	4.1	2.1	2.0	.8		3.7	.0	.0	.1	.6	1.0	.3	.0	.0	.1	7.0	
S	4.8	3.3	3.6	1.7		3.7	.1	.0	.3	1.4	1.4	.5	.1	.0	.1	9.3	
SW	2.3	2.1	2.9	1.4		4.2	.1	.0	.4	.7	1.7	.1	.1	.0	.1	5.4	
W	3.5	.9	1.0	.4		2.5	.0	.0	.1	.2	.7	.1	.0	.1	.0	4.6	
NW	3.9	.7	1.1	.7		2.7	.0	.0	.0	.2	.4	.4	.1	.1	.0	3.1	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.5	.0	.0	.0	1487	2.7	.0	.0	.0	.3	.2	.3	.0	.4	.0	3.1	
TOT OBS	474	176	348	162	1487	3.3	7	2	3	33	97	142	32	27	3	1080	
TOT PCT	46.3	18.9	23.7	11.1	100.0		.5	.1	.2	2.4	6.7	9.7	3.6	1.9	.3	74.1	

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>300	>0
>4800	.7	.9	1.0	1.0	1.0	1.0	1.0	1.0
>3000	2.4	2.6	2.8	2.8	2.8	2.8	2.8	2.8
>2000	4.8	6.1	6.3	6.3	6.3	6.3	6.3	6.3
>1500	11.1	13.0	13.0	13.0	13.0	13.0	13.0	13.0
>1000	16.1	21.1	22.4	22.4	22.4	22.4	22.4	22.4
>400	17.9	23.7	25.3	25.3	25.3	25.3	25.3	25.3
>300	18.1	23.9	25.6	25.7	25.7	25.7	25.7	25.7
>150	18.1	24.0	25.7	25.9	25.9	25.9	25.9	25.9
>0	18.3	24.3	26.1	26.4	26.4	26.4	26.4	26.4
TOTAL	269	338	384	388	388	388	388	388

TOTAL NUMBER OF OBS: 1472

PCT FREQ NH <5/8: 73.6

TABLE 7A

PERCENTAGE FREQ OF (LOW CLOUDS (EIGHTHS))

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
29.0	19.2	13.7	10.7	6.7	3.1	5.4	0.2	0.4	.4	1633

FEBRUARY

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1864-1976

AREA 0012 BUENOS AIRES
34.85 52.9W

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
1<2	PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3
	NO PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2
	TOT %	.1	.2	.1	.0	.1	.1	.0	.0	.0	.0	.0	.5
2<5	PCP	.1	.1	.1	.1	.1	.2	.0	.0	.0	.1	.0	.9
	NO PCP	.4	.4	.4	.2	.2	.2	.0	.2	.0	.0	.0	2.9
	TOT %	.9	.9	.9	.9	.9	.9	.2	.2	.0	.1	.1	3.2
5<10	PCP	.2	.3	.3	.2	.4	.2	.0	.1	.0	.1	.0	1.8
	NO PCP	2.4	4.6	2.2	1.7	2.2	1.7	1.4	1.3	.0	.3	.0	17.9
	TOT %	2.6	4.9	2.5	1.9	2.6	1.9	1.4	1.4	.0	.4	.0	19.7
10+	PCP	.1	.2	.1	.1	.3	.2	.1	.0	.0	.0	.0	1.1
	NO PCP	10.4	19.3	10.9	7.2	9.5	6.6	4.0	4.4	.0	2.9	.0	79.9
	TOT %	10.5	19.4	11.0	7.3	9.8	6.8	4.1	4.5	.0	2.9	.0	76.4
TOT OBS													2191
TOT PCT													19.9 23.4 14.1 9.7 12.8 9.1 5.5 6.1 .0 3.4 100.0

TABLE 9

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

VISBY (MM)	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	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.3
	11-21	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.3
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.2	.1	.1	.1	.1	.0	.1	.0	.0	.0	.7
2<5	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	.2
	4-10	.2	.3	.1	.1	.1	.1	.0	.1	.1	.0	.0	1.0
	11-21	.2	.4	.3	.2	.1	.1	.0	.1	.0	.0	.0	1.4
	22+	.0	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.4
	TOT %	.4	.9	.6	.3	.3	.3	.0	.2	.0	.1	.1	3.1
5<10	0-3	.2	.1	.2	.1	.0	.1	.2	.1	.0	.5	.0	1.2
	4-10	1.0	1.2	1.0	.5	.4	.5	.3	.6	.0	.0	.0	6.3
	11-21	1.2	2.3	1.1	.7	1.1	1.6	.3	.3	.0	.0	.0	7.8
	22+	.1	.3	.1	.2	.4	.3	.1	.1	.0	.0	.0	1.7
	TOT %	2.5	4.4	2.3	1.8	2.0	1.5	1.0	1.1	.0	.5	.0	17.1
10+	0-3	.0	.3	.3	.3	.4	.3	.2	.2	.0	2.7	.0	6.2
	4-10	3.6	8.4	6.6	4.3	4.1	2.6	1.3	2.4	.0	.0	.0	33.3
	11-21	4.7	9.3	4.8	3.4	4.8	3.1	1.3	1.7	.0	.0	.0	33.4
	22+	.4	.8	.3	.3	.8	.9	.2	.3	.0	.0	.0	3.8
	TOT %	11.2	19.3	12.2	8.7	10.0	6.8	3.3	4.6	.0	2.7	.0	76.8
TOT OBS													3326
TOT PCT													14.2 24.8 19.2 11.0 12.4 8.7 4.9 5.9 .0 3.4 100.0

FEBRUARY

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1864-1976

AREA 0012 BUENOS AIRES
34.55 52.9W

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000Z	.9	.3	.0	1.7	6.3	8.6	2.0	1.4	.6	.6	22.3	77.7	349
0600Z	.9	.0	.0	3.1	7.5	9.8	1.9	.3	.0	.6	23.3	76.7	318
1201Z	.2	.0	.6	2.3	5.9	9.2	4.6	2.7	.6	.2	26.4	73.6	477
1802Z	.0	.2	.2	3.6	5.4	9.3	3.9	1.8	.0	.9	25.4	74.6	441
TOT	7	2	4	43	98	143	32	27	5	9	390	1195	1588
PCT	.4	.1	.3	2.7	6.2	9.0	3.3	1.7	.3	.6	24.6	75.4	100.0

TABLE 11

PERCENT FREQUENCY VSSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000Z	.0	.2	.6	4.1	19.6	79.5	876
0600Z	.1	.0	.4	4.5	21.1	73.9	674
1201Z	.2	.2	1.0	2.3	14.3	81.8	1051
1802Z	.4	.1	.6	1.7	14.8	82.4	771
TOT	4	5	24	103	380	2684	3372
PCT	.2	.1	.7	3.1	17.2	78.7	100.0

TABLE 12

CUMULATIVE PCT FRQG OF RANGES OF VSSBY (NH) AND/OR CEILING HGT (FEET, FM >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000Z	.9	1.3	5.3	19.5	75.2	318
0600Z	1.0	1.0	6.9	19.1	74.0	288
1201Z	.2	.9	9.6	25.4	71.0	449
1802Z	.0	.5	9.7	21.1	73.2	421
TOT	7	13	86	310	1076	1472
PCT	.5	.9	9.8	21.1	75.1	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 FRQG
90/94	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
85/89	.0	.0	.1	.1	.2	.0	.0	.0	4	.4
80/84	.0	.0	.4	1.0	1.3	.4	.2	.0	33	3.3
75/79	.0	.0	.1	.8	2.1	5.8	4.9	.9	209	20.7
70/74	.0	.0	.2	2.3	9.3	12.0	15.6	10.2	303	29.7
65/69	.0	.0	.2	1.7	4.9	4.2	5.6	3.4	202	20.0
60/64	.0	.0	.0	.3	2.1	1.7	1.2	.6	39	3.8
55/59	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
TOTAL	0	0	6	38	199	233	301	195	1012	100.0
PCT	.0	.0	.6	3.7	19.7	23.0	29.7	19.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
85/89	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0
80/84	.7	.9	.8	.1	.0	.4	.1	.2	.0	.1
75/79	3.8	6.4	3.4	1.3	1.3	1.3	1.3	1.3	.0	.3
70/74	6.4	12.3	9.3	3.2	3.6	3.7	2.4	3.9	.0	.7
65/69	2.1	2.9	1.6	3.0	3.1	2.9	1.4	.9	.0	.2
60/64	.2	.3	.3	1.0	2.7	1.0	.3	.2	.0	.0
55/59	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
TOTAL	13.1	23.1	15.5	10.5	14.7	9.4	5.6	6.5	.0	1.3

TABLE 15

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

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	85	79	77	72	63	59	55	71.0	1853
0600Z	82	78	75	70	62	58	55	69.3	1166
1201Z	90	83	79	73	64	60	54	72.4	2137
1802Z	90	84	82	74	63	61	57	73.9	1194
TOT	90	82	79	72	64	59	54	71.7	6372

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	4.3	18.0	21.9	32.8	23.0	80	236
0600Z	.0	3.4	16.6	24.9	30.2	24.9	80	203
1201Z	.0	3.4	18.3	23.3	33.0	17.9	78	312
1802Z	.0	11.4	23.2	28.4	33.6	13.3	73	271
TOT	0	66	200	263	313	202	75	1044

FEBRUARY

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1864-1976

AREA 0012 BUENOS AIRES
34.53 52.9N

TABLE 17

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

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
14/16	.0	.0	.0	.0	.0	.1	.1	.1	.1	7	.0	.4
11/13	.0	.0	.0	.0	.0	.1	.4	.3	.1	15	.0	.8
9/10	.0	.0	.0	.0	.3	.3	.7	.0	.0	25	.1	1.2
7/8	.0	.0	.0	.1	.5	1.8	.6	.0	.0	57	.0	2.9
6	.0	.0	.0	.1	.6	.9	.3	.1	.0	38	.0	1.9
5	.0	.0	.1	.9	1.8	2.1	.4	.0	.0	104	.0	5.2
4	.0	.0	.2	1.1	3.3	1.3	.1	.0	.0	119	.1	5.9
3	.0	.0	.2	.8	2.3	1.3	.3	.0	.0	95	.1	4.7
2	.0	.0	.6	2.8	4.8	1.4	.1	.0	.0	190	.2	9.4
1	.1	.1	.3	3.8	5.0	.9	.0	.0	.0	199	.2	9.8
0	.0	.3	.7	5.8	6.0	.9	.0	.0	.0	272	.2	13.5
-1	.0	.3	.9	5.8	2.2	.1	.0	.0	.0	184	.1	9.2
-2	.0	.3	2.1	5.0	1.7	.1	.0	.0	.0	182	.1	9.0
-3	.0	.6	1.6	3.1	.9	.1	.0	.0	.0	122	.0	6.1
-4	.0	.4	3.3	2.7	.3	.1	.0	.0	.0	132	.1	6.6
-5	.1	.5	2.4	1.2	.5	.0	.0	.0	.0	91	.0	4.6
-6	.1	.3	1.5	.7	.0	.0	.0	.0	.0	51	.0	2.6
-7/-8	.2	1.8	1.3	.6	.0	.0	.0	.0	.0	76	.0	3.8
-9/-10	.1	.6	.2	.2	.0	.0	.0	.0	.0	19	.0	1.0
-11/-13	.3	.3	.2	.0	.0	.0	.0	.0	.0	14	.0	.7
-14/-16	.2	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	17		306		398		97		4	1997	17	1980
PCT	.9	5.2	15.3	34.2	29.8	11.1	2.9	.5	.2	100.0	.9	69.1

PERIOD: (OVER-ALL) 1969-1976

TABLE 18

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

HGT	N					PCT	NE					PCT	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
41	.3	.6	.0	.0	.0	.9	.2	.8	.1	.0	.0	.0	1.0
1-2	.3	2.2	.2	.0	.0	2.8	.1	2.7	1.6	.0	.0	.0	4.4
3-4	.0	1.1	1.3	.0	.0	2.4	.0	3.1	5.4	.1	.0	.0	8.7
5-6	.0	.4	3.6	.1	.0	3.4	.0	.6	5.7	.4	.0	.0	6.7
7	.0	.0	.9	.2	.0	1.1	.0	.3	3.3	.7	.0	.0	4.5
8-9	.0	.0	.2	.3	.0	.6	.0	.0	.1	.1	.0	.0	.3
10-11	.0	.0	.3	.2	.0	.6	.0	.0	.3	.2	.0	.0	.7
12	.0	.0	.0	.2	.0	.2	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.4	5.8	1.0	.0	11.9	.3	7.4	16.9	1.9	.1	.0	26.6

HGT	E					PCT	SE					PCT	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
41	.2	1.4	.1	.0	.0	1.7	.1	.7	.0	.0	.0	.0	.8
1-2	.1	2.8	.8	.0	.0	3.6	.1	1.3	.3	.0	.0	.0	1.9
3-4	.1	1.2	2.4	.2	.0	3.9	.0	1.3	1.9	.9	.0	.0	3.1
5-6	.0	.4	1.7	.0	.0	2.2	.0	.1	1.0	.1	.0	.0	1.3
7	.0	.2	.2	.1	.0	.6	.0	.1	.8	.3	.0	.0	1.3
8-9	.0	.0	.3	.0	.0	.3	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.1	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	6.0	5.7	.4	.0	12.3	.2	3.7	4.4	.6	.0	.0	8.8

PERIOD: (OVER-ALL) 1963-1976

FEBRUARY
TABLE 18 (CONT)

AREA 0012 BUENOS AIRES
34.55 52.9W

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

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.2	.4	.0	.0	.0	.0	.8	.1	.4	.1	.0	.0	.0	.8		
1-2	.2	1.7	1.4	.0	.0	.0	3.3	.2	1.3	.4	.0	.0	.0	2.2		
3-4	.1	.8	2.7	.2	.0	.0	3.8	.1	.4	2.1	.0	.0	.0	2.5		
5-6	.0	.7	1.1	.4	.0	.0	2.2	.1	.2	1.0	.0	.0	.0	1.4		
7	.0	.1	1.6	.3	.0	.0	2.1	.0	.0	.6	.3	.0	.0	.9		
8-9	.0	.0	.4	.1	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1		
10-11	.0	.0	.1	.2	.0	.0	.3	.0	.0	.1	.3	.0	.0	.3		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.6	3.6	7.3	1.3	.0	.0	12.7	.4	2.3	4.3	.8	.0	.0	7.9		

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.2	.6	.0	.0	.0	.0	.8	.3	.3	.1	.0	.0	.0	.9	1.9		
1-2	.1	1.0	.2	.0	.0	.0	1.3	.0	.7	.6	.0	.0	.0	1.3	1.3		
3-4	.0	.7	.8	.0	.0	.0	1.5	.0	.3	.9	.0	.0	.0	1.2	1.2		
5-6	.0	.1	.8	.1	.0	.0	1.0	.0	.1	.3	.0	.0	.0	.8	.8		
7	.0	.0	.1	.0	.0	.0	.6	.0	.0	.3	.3	.0	.0	.3	.3		
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.1	.1		
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.2	.1	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1	.1		
13-16	.0	.0	.2	.1	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1	.1		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.3	2.4	3.2	.3	.0	.0	6.4	.3	1.6	2.6	.8	.0	.0	5.3	92.2		

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.1	3.6	.5	.0	.0	.0	16.2	
1-2	1.3	4.2	3.3	.0	.0	.0	21.2	
3-4	.2	8.3	17.1	.6	.0	.0	26.3	
5-6	.1	2.7	14.4	1.1	.0	.0	18.4	
7	.0	.7	8.4	2.4	.0	.0	11.3	
8-9	.0	.0	1.3	.7	.0	.0	2.2	
10-11	.0	.0	1.3	1.0	.0	.0	2.3	
12	.0	.0	.2	.8	.0	.0	1.0	
13-16	.0	.0	.3	.2	.1	.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	873
TOT PCT	11.9	31.7	49.4	6.9	.1	.0	100.0	

PERIOD: (OVER-ALL) 1949-1976

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	12.3	16.9	7.3	3.1	.6	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	563	3
6-7	.0	1.3	7.0	10.9	5.6	1.1	1.2	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	360	3
8-9	.0	.3	1.0	1.9	2.2	.9	1.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97	6
10-11	.0	.0	2.4	.2	.3	.1	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	4
12-13	.0	.0	1.3	.4	.4	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	3
>13	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
INDBT	3.9	2.9	3.5	3.1	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	187	3
TOTAL	83	234	391	308	138	39	40	9	11	1	0	0	0	0	0	0	0	0	0	1296	4
PCT	6.6	19.6	30.2	23.8	12.2	3.0	3.1	.7	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1866-1976

MARCH

AREA 0012 BUENOS AIRES
34.95 52.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/ PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG
N	2.7	1.0	.2	.0	.0	.0	.0	3.9	.3	3.3	1.6	.4	2.5	.0	.0	89.3
NE	1.5	2.1	.4	.0	.0	.0	.0	4.1	.2	1.7	4.1	.0	.7	.0	.0	89.2
E	3.1	2.2	1.3	.0	.0	.0	.0	6.8	2.0	.2	1.8	.0	.0	.0	.0	89.2
SE	3.8	3.6	.6	.0	.0	.0	.0	9.9	1.5	.1	1.1	.4	.4	.0	.0	86.6
S	4.4	3.4	.4	.0	.0	.0	.0	8.2	1.9	1.3	2.5	.0	.0	.0	.0	86.1
SW	2.7	1.6	.0	.0	.0	.0	.0	4.2	1.2	1.9	2.7	.0	.3	.0	.0	90.0
W	3.3	3.1	.8	.0	.0	.0	.0	7.3	2.3	.8	3.8	.8	.0	.0	.0	83.0
NW	3.4	.8	.0	.0	.0	.0	.0	4.2	1.1	2.1	3.4	.0	.0	.0	.0	89.4
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	9.1	.0	.0	.0	.0	90.9
TOT PCT	3.1	2.2	.5	.0	.0	.0	.0	5.8	1.1	1.5	2.8	.1	.5	.0	.0	88.4
TOT OBS:	2381															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/ PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG
0800	4.0	2.4	.3	.0	.0	.0	.0	6.8	.3	2.8	3.8	.0	.3	.0	.0	86.2
0800	4.1	2.4	.0	.0	.0	.0	.0	4.5	1.2	2.8	4.9	.2	.0	.0	.0	86.6
1200	2.3	2.0	.8	.0	.0	.0	.0	3.2	1.5	.3	1.6	.3	1.1	.0	.0	90.2
1800	2.4	2.1	.8	.0	.0	.0	.0	5.3	1.3	.6	1.3	.0	.3	.0	.0	91.4
TOT PCT	3.1	2.2	.5	.0	.0	.0	.0	9.9	1.1	1.5	2.7	.1	.5	.0	.0	88.4
TOT OBS:	2440															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						40+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18	21
N	.7	9.8	9.7	.8	.1	.0		13.0	11.8	8.7	10.3	12.8	19.6	16.2	14.1	10.2	10.1
NE	.8	9.3	11.0	1.7	.1	.0		23.2	13.3	28.4	24.1	26.2	20.3	21.0	19.2	23.1	22.0
E	.8	6.5	8.6	.8	.0	.0		13.7	11.2	17.1	14.8	13.8	9.8	10.3	12.4	14.3	18.5
SE	.8	6.1	9.1	1.0	.2	.0		13.2	11.7	12.9	14.0	12.7	14.1	12.7	14.0	11.9	15.1
S	1.0	5.1	8.4	1.7	.2	.0		13.5	13.0	13.1	11.2	13.1	12.2	12.7	13.7	14.8	15.7
SW	.5	3.2	4.4	1.6	.3	.0		10.2	13.0	10.4	8.3	9.8	8.0	10.9	9.4	13.8	8.8
W	.4	1.9	1.3	.6	.2	.0		4.6	13.3	3.4	3.4	4.1	3.3	3.9	6.3	4.2	3.0
NW	.4	3.3	2.0	.3	.2	.0		6.4	11.6	4.1	3.8	3.7	3.4	3.5	3.8	3.4	4.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0	2.2	2.0	3.0	2.2	1.9	1.9	2.3	2.3
TOT OBS	333	3028	2977	653	94	8	7317		12.2	1298	893	826	498	1294	1117	908	481
TOT PCT	7.6	41.4	40.7	9.0	1.3	.1	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	2.8	7.1	2.8	.3	.0	13.0	11.8	11.0	15.4	15.2	10.2	
NE	3.8	13.6	5.2	.8	.0	23.2	13.3	26.3	25.0	20.2	22.8	
E	3.2	8.1	2.1	.3	.0	13.7	11.2	16.2	12.1	11.3	15.7	
SE	3.4	7.0	2.2	.4	.1	13.2	11.7	13.1	13.2	13.4	13.0	
S	3.2	6.1	3.5	.6	.1	13.5	13.0	13.3	12.2	13.1	15.1	
SW	1.7	4.4	3.2	.8	.1	10.2	13.0	9.7	9.1	10.2	12.1	
W	1.2	2.0	1.0	.3	.1	4.6	13.3	3.4	4.3	6.2	3.6	
NW	1.7	3.4	1.0	.4	.0	6.4	11.6	4.7	6.7	3.6	5.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.1					2.1	.0	2.1	2.7	.8	2.2	
TOT OBS	1703	3780	1333	267	32	7317		2191	1324	2413	1389	
TOT PCT	23.3	51.7	21.0	3.6	.4	100.0		100.0	100.0	100.0	100.0	

MARCH

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1866-1976

AREA 0012 BUENOS AIRES
34.55 52.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000Z	2.1	3.3	40.3	41.4	9.4	1.2	.2	12.2	100.0	2191	
0600Z	2.7	5.7	38.9	42.3	8.9	1.2	.2	12.3	100.0	1324	
1200Z	1.8	6.0	44.3	38.1	8.3	1.5	.0	11.9	100.0	2413	
1800Z	2.2	4.3	40.4	42.3	9.4	1.1	.1	12.4	100.0	1389	
TOT	1.97	3.98	30.28	29.77	8.95	1.3	.1	12.2		7317	
PCT	2.1	3.4	41.4	40.7	9.0	1.3	.1		100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCH	TOTAL OBS	MEAN CLOUD COVER
NE	10.9	5.2	3.3	7.8	3.4	
E	4.5	2.8	3.3	2.3	4.1	
SE	3.1	2.2	2.8	2.3	4.4	
S	4.2	2.6	3.3	3.3	4.6	
SW	4.8	3.8	4.6	2.0	4.1	
W	1.8	1.1	1.2	.8	4.0	
NW	2.1	.9	1.2	.6	3.6	
VAR	.0	.0	.0	.0	.0	
CALM	.9	.4	.2	.1	2.4	
TOT OBS	690	384	427	280	1621	
TOT PCT	37.0	28.6	26.3	16.0	100.0	

TABLE 6

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

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL OBS
N	.2	.0	.1	.3	.8	1.2	.2	.1	.2	.1	.1	7.5
NE	.7	.8	.2	.5	1.3	2.1	.9	.4	.1	.2	.2	17.6
E	.2	.8	.1	.4	1.4	1.4	.8	.2	.0	.0	.0	8.5
SE	.1	.0	.1	.4	1.3	1.2	.4	.2	.1	.1	.1	6.2
S	.2	.0	.3	.3	2.9	2.6	.5	.4	.1	.0	.0	8.1
SW	.8	.0	.1	.1	1.7	2.3	.8	.2	.0	.0	.0	10.0
W	.9	.0	.0	.2	.3	.3	.3	.0	.0	.1	.1	3.3
NW	.1	.0	.0	.2	.3	.3	.1	.0	.1	.0	.0	3.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	1.4
TOT OBS	27	1	14	42	169	190	84	23	9	8	1074	
TOT PCT	1.7	.1	.9	2.6	10.4	11.7	3.9	1.4	.6	.5	66.3	

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>8500	.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>7000	1.8	2.5	2.3	2.3	2.3	2.3	2.3	2.3
>5500	4.4	6.4	6.3	6.3	6.3	6.3	6.3	6.3
>4000	12.3	16.9	18.0	18.2	18.3	18.3	18.3	18.3
>2500	18.0	23.8	27.9	28.2	28.3	28.3	28.3	28.3
>1000	19.3	28.1	30.4	30.6	31.1	31.1	31.1	31.1
>500	19.9	28.9	31.3	31.7	32.0	32.0	32.0	32.0
>150	20.0	28.9	31.3	31.7	32.1	32.1	32.1	32.1
>0	20.0	29.2	32.4	32.9	33.3	33.6	33.6	33.7
TOTAL	330	481	334	342	349	353	354	356

TOTAL NUMBER OF OBS: 1648 PCT FREQ NH <5/8: 66.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCH	TOTAL OBS
18.9	19.3	19.5	11.6	7.3	6.4	8.4	6.0	11.5	1.4	1794

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1866-1976

MARCH

AREA 0012 BUENOS AIRES
34.55 52.9W

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.4
	TOT %	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.4
1/2<1	PCP	.1	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.4
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2
	TOT %	.1	.0	.1	.1	.1	.1	.0	.0	.0	.0	.1	.7
1<2	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3
	TOT %	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.0	.5
2<5	PCP	.1	.4	.7	.4	.3	.0	.0	.0	.0	.0	.0	1.4
	NO PCP	.2	1.1	.4	.3	.5	.5	.1	.0	.0	.0	.0	3.1
	TOT %	.3	1.5	.5	.6	.8	.5	.1	.0	.0	.0	.0	4.5
5<10	PCP	.9	.5	.9	.4	.6	.3	.2	.1	.0	.0	.0	2.9
	NO PCP	3.3	3.3	2.8	2.8	3.4	2.9	1.1	1.3	.0	.1	.1	23.0
	TOT %	3.6	3.9	3.3	3.2	3.9	3.2	1.3	1.4	.0	.1	.1	25.9
10+	PCP	.0	.0	.2	.1	.2	.1	.1	.0	.0	.0	.0	.4
	NO PCP	7.2	16.6	9.5	6.3	9.5	10.1	3.3	3.4	.0	1.1	.1	67.3
	TOT %	7.2	16.7	9.7	6.5	9.8	10.2	3.4	3.4	.0	1.1	.1	68.1
TOT OBS													2379
TOT PCT													11.2 24.2 13.7 10.6 14.8 14.2 4.9 4.9 .0 1.4 100.0

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.1	.3
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	22+	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.2
	TOT %	.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	.1	.5
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	TOT %	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.4
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	4-10	.2	.2	.2	.3	.2	.1	.0	.1	.1	.0	.0	1.2
	11-21	.2	.8	.3	.3	.3	.3	.1	.1	.0	.0	.0	2.3
	22+	.1	.1	.1	.1	.2	.1	.0	.0	.0	.0	.0	.7
	TOT %	.6	1.1	.5	.6	.7	.5	.2	.2	.0	.0	.0	4.4
5<10	0-3	.2	.1	.1	.1	.1	.1	.0	.0	.0	.2	.2	.8
	4-10	1.0	1.4	.9	.7	.7	.6	.3	.4	.0	.0	.0	6.0
	11-21	1.4	3.1	1.6	1.3	1.3	1.0	.4	.6	.0	.0	.0	10.9
	22+	.2	.6	.2	.3	.3	.7	.1	.1	.0	.0	.0	3.1
	TOT %	2.8	3.0	2.8	2.6	3.1	2.3	.9	1.2	.0	.2	.2	20.9
10+	0-3	.4	.6	.5	.4	.6	.4	.2	.4	.0	1.1	.1	4.7
	4-10	4.4	8.3	5.3	4.3	3.3	2.4	1.3	2.4	.0	.0	.0	22.2
	11-21	3.8	9.0	4.2	3.1	4.8	4.5	1.1	1.1	.0	.0	.0	31.8
	22+	.3	.7	.4	.3	.3	1.0	1.6	.3	.0	.0	.0	5.1
	TOT %	8.9	18.6	10.7	8.3	9.7	8.6	3.3	4.0	.0	1.1	.1	73.3
TOT OBS													3889
TOT PCT													12.4 24.9 14.1 11.7 13.7 11.9 4.5 3.5 .0 1.4 100.0

MARCH

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1866-1976

AREA 0012 BUENOS AIRES
34.85 52.94

TABLE 10

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

HR (GMT)	0%	0	300	600	1000	2000	3500	5000	6500	8,000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0803	3.7	.0	.8	1.8	9.5	7.4	3.2	1.1	.8	.5	28.8	71.2	379
0809	1.8	.3	.0	1.5	10.0	8.8	3.2	.9	.3	.9	27.4	72.4	340
12615	1.2	.0	1.6	3.5	9.6	15.1	4.1	2.2	.8	.6	38.7	61.3	309
18221	.2	.0	.8	2.5	9.7	11.4	4.3	1.0	.2	.2	30.2	69.8	316
TOT	27	1	15	43	169	194	66	23	9	9	336	1188	1744
PCT	1.5	.1	.9	2.5	9.7	11.1	3.8	1.3	.5	.5	31.9	66.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0803	.4	.5	.3	9.3	22.8	70.6	1088
0809	.4	.6	.9	6.3	21.4	70.3	774
12615	.4	.6	.3	3.1	20.2	75.4	1199
18221	.1	.3	.1	3.3	18.9	77.2	887
TOT	13	20	15	175	924	2901	3948
PCT	.3	.5	.4	4.4	20.9	73.5	100.0

TABLE 12

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

HR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0803	4.0	6.0	13.6	20.7	69.6	332
0809	1.9	2.2	13.1	21.1	69.8	313
12615	1.2	3.1	9.1	32.8	98.1	482
18221	.2	1.2	6.2	23.5	68.3	301
TOT	27	49	164	423	1099	1648
PCT	1.6	3.0	10.0	25.8	64.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
89/89	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
88/84	.0	.0	.1	.0	.2	.6	.4	.3	19	1.3
79/79	.0	.0	.0	.7	1.2	4.6	3.7	2.3	158	12.3
78/74	.0	.0	.2	1.6	4.6	9.6	13.2	12.3	549	43.4
69/69	.0	.0	.3	2.1	4.6	7.1	9.5	7.4	393	31.1
60/64	.0	.0	.1	1.2	2.8	2.3	1.6	1.8	127	10.0
55/59	.0	.0	.0	.1	.4	.6	.2	.2	17	1.3
50/54	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
TOTAL	.0	.0	.9	7.2	17.2	31.4	39.0	30.8	1083	100.0
PCT	.0	.0	.7	5.7	13.6	24.8	30.8	24.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALN
89/89	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0
88/84	.1	.7	.2	.2	.0	.1	.0	.1	.0	.0
79/79	1.3	3.1	2.0	.6	.5	1.2	.3	1.1	.0	.1
78/74	5.8	10.3	7.8	3.3	4.6	4.2	2.4	2.6	.0	.2
69/69	2.6	3.4	4.2	4.3	6.1	6.3	2.4	1.5	.0	.4
60/64	.6	.2	.4	1.0	2.6	2.3	.8	.3	.0	.0
55/59	.1	.0	.1	.0	.6	.4	.1	.0	.0	.0
50/54	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
TOTAL	10.8	20.3	14.6	11.4	13.4	14.6	6.3	5.7	.0	.7

TABLE 15

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

HR (GMT)	MAX	95%	90%	50%	SE	LS	MIN	MSAM	TOTAL OBS
0803	83	78	74	70	61	57	51	69.4	2137
0809	82	77	74	69	61	57	51	68.3	1512
12615	87	81	77	71	69	58	51	70.5	2330
18221	88	82	80	72	63	59	56	71.8	1349
TOT	88	81	77	70	62	58	51	70.0	7168

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	40-49	70-79	80-89	90-100	MEAN	TOTAL OBS
0803	.0	4.7	10.9	24.9	33.7	23.7	81	338
0809	.0	2.5	7.8	24.3	32.1	33.3	53	243
12615	.0	5.7	13.4	21.3	32.8	24.8	80	405
18221	.0	11.7	16.2	28.7	24.3	16.1	76	317
TOT	0	82	179	320	401	319	80	1301

MARCH

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1860-1976

AREA 0012 BUENOS AIRES
34.35 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	53	57	61	65	69	73	77	81	85	TOT	N FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
11/13	.0	.0	.0	.0	.1	.0	.0	.3	.0	11	.0	.5
9/10	.0	.0	.0	.0	.0	.1	.4	.4	.0	21	.1	.8
7/8	.0	.0	.0	.0	.0	.3	1.0	.2	.0	33	.0	1.5
6	.0	.0	.0	.0	.0	.3	1.3	.1	.0	41	.0	1.7
5	.0	.0	.0	.0	.0	1.2	2.1	.0	.0	77	.2	3.3
4	.0	.0	.0	.2	.6	2.8	.7	.1	.0	96	.1	4.3
3	.0	.0	.2	.3	.9	2.0	.3	.0	.0	84	.1	3.7
2	.0	.1	.2	.6	2.7	3.9	.5	.0	.0	176	.2	7.9
1	.0	.0	.2	1.1	3.1	3.2	.4	.0	.0	175	.2	7.6
0	.1	.2	.8	1.7	6.9	2.7	.1	.0	.0	273	.7	12.3
-1	.0	.0	.4	1.4	7.1	1.6	.1	.0	.0	232	.2	10.3
-2	.0	.0	.3	2.8	6.4	.9	.0	.0	.0	232	.2	10.4
-3	.0	.2	.3	2.5	3.6	.3	.0	.0	.0	142	.2	7.2
-4	.0	.1	.8	4.0	2.1	.5	.0	.0	.0	144	.2	7.3
-5	.0	.1	1.0	3.3	1.6	.2	.0	.0	.0	134	.2	5.9
-6	.0	.2	1.4	1.4	.7	.1	.0	.0	.0	84	.2	3.5
-7/-8	.1	.7	2.1	1.8	.2	.0	.0	.0	.0	109	.1	4.9
-9/-10	.0	.5	1.1	.8	.2	.0	.0	.0	.0	34	.1	2.3
-11/-13	.0	.7	.8	.1	.0	.0	.0	.0	.0	24	.2	.9
-14/-16	.0	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	7	63	208	492	793	439	133	26	3	2188	66	2122
PCT	.3	3.0	9.8	22.5	36.2	20.1	7.1	1.2	.1	100.0	3.0	37.0

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

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

HGT	N						PCT	NE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.8	.0	.0	.0	.0	3.5	.1	3.1	1.3	.0	.0	.0	.0	6.8
3-4	.0	.0	1.7	.1	.0	.0	2.5	.0	3.1	6.4	.0	.0	.0	.0	9.6
5-6	.0	.1	1.6	.0	.0	.0	1.7	.0	.3	4.8	.2	.0	.0	.0	4.9
7	.0	.1	.3	.2	.0	.0	.6	.0	.0	3.4	.4	.0	.0	.0	3.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0	.0	.3
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3	.1	.0	.0	.0	.4
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.5	4.7	.3	.0	.0	9.7	.4	9.4	16.0	.8	.0	.2	.0	26.7

HGT	E						PCT	SE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.2	.9	.0	.0	.0	.0	1.1	.1	.3	.0	.0	.0	.0	.0	.4
1-2	.2	2.3	1.0	.0	.0	.0	3.7	.1	1.3	.4	.0	.0	.0	.0	1.8
3-4	.0	.7	2.9	.2	.0	.0	3.8	.0	.7	2.0	.0	.0	.0	.0	2.7
5-6	.0	.6	1.4	.1	.0	.0	2.1	.0	.2	.9	.1	.0	.0	.0	1.2
7	.0	.0	.9	.2	.0	.0	1.0	.0	.0	.4	.2	.0	.0	.0	.6
8-9	.0	.0	.1	.3	.0	.0	.4	.0	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.7	6.2	.8	.0	.0	12.0	.3	2.5	3.9	.8	.1	.0	.0	7.6

PERIOD: (OVER-ALL) 1963-1976

MARCH

AREA 0012 BUENOS AIRES
34.35 52.94

TABLE 10 (CONT)

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

HGT	S								PCT	SW								PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10		11-21	22-33	34-47	48+					
<1	.1	.3	.1	.0	.0	.0	.2	.2	.1	.0	.0	.0	.0	.0	.5			
1-2	.1	1.9	.8	.0	.0	.0	.0	1.0	.7	.0	.0	.0	.0	.0	1.7			
3-4	.1	1.8	2.0	.2	.0	.0	.0	5.2	.7	2.6	.3	.0	.0	.0	3.6			
5-6	.0	.4	2.4	.0	.0	.0	.0	2.9	.3	2.5	.4	.0	.0	.0	3.2			
7	.0	.1	1.9	.8	.0	.0	.0	2.7	.0	2.1	.9	.1	.0	.0	3.1			
8-9	.0	.0	.3	.3	.1	.0	.0	.5	.0	1.6	1.2	.0	.0	.0	2.8			
10-11	.0	.0	.3	.8	.0	.0	.0	1.1	.0	.6	1.0	.0	.0	.0	1.6			
12	.0	.0	.2	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1			
13-16	.0	.0	.1	.2	.0	.0	.0	.3	.0	.0	.2	.1	.0	.0	.3			
17-19	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
TOT PCT	.3	4.8	9.4	2.0	.1	.1	16.7	.2	2.1	10.3	4.1	.3	.0	16.9				

HGT	W								PCT	NW								TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10		11-21	22-33	34-47	48+					
<1	.0	.2	.1	.0	.0	.0	.0	.3	.0	.2	.2	.0	.0	.0	.4			
1-2	.0	.7	.3	.0	.0	.0	.0	1.0	.1	.8	.1	.0	.0	.0	1.0			
3-4	.0	.2	1.0	.2	.0	.0	.0	1.3	.0	.2	.7	.1	.0	.0	1.3			
5-6	.0	.0	.4	.3	.0	.0	.0	.8	.0	.4	.2	.0	.0	.0	.9			
7	.0	.0	.3	.0	.1	.0	.0	.8	.0	.1	.0	.0	.0	.0	.2			
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1			
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
13-16	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1			
17-19	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
TOT PCT	.0	1.1	2.3	.3	.2	.0	4.1	.1	1.7	1.7	.1	.1	.0	4.0	97.6			

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	3.6	3.9	.6	.0	.0	.0	8.0	88
1-2	.7	16.1	5.4	.0	.0	.0	22.1	
3-4	.1	8.4	20.2	1.1	.0	.0	29.8	
5-6	.0	2.1	12.3	1.3	.0	.0	17.0	
7	.0	.2	9.6	2.3	.2	.0	12.3	
8-9	.0	.0	2.7	1.9	.1	.0	4.7	
10-11	.0	.0	1.7	1.9	.0	.0	3.6	
12	.0	.0	.3	.4	.0	.0	.8	
13-16	.0	.0	.2	.6	.2	.0	1.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.1	.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	4.4	30.7	54.1	9.9	.8	.1	100.0	896

PERIOD: (OVER-ALL) 1949-1976

TABLE 10

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
<1	2.0	19.9	18.1	8.2	3.4	.8	.5	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	671	3
1-2	.0	1.2	6.0	6.3	3.6	1.9	1.4	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	334	7
3-4	.0	.8	1.1	3.2	2.7	1.3	1.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	134	4
5-6	.0	.0	.4	.2	.1	.5	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	7
7	.0	.0	.0	.2	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	6
8-9	.0	.0	.0	.4	.1	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	9
10-11	.0	.0	.0	.4	.1	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	207	4
12-13	.0	.0	.0	.4	.1	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1423	3
15-17	.0	.0	.0	.4	.1	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1423	3
20-22	.0	.0	.0	.4	.1	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1423	3
TOT PCT	5.1	19.4	28.7	19.6	14.9	5.6	3.9	1.3	1.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1913-1974
(OVER-ALL) 1862-1974

AREA 0012 BUENOS AIRES
34.55 59.04

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.9	.0	.6	.0	.0	.0	.1	1.7	.4	1.2	3.7	.2	1.5	.0	91.4
NE	.9	.3	.7	.0	.0	.0	.0	1.9	1.6	1.1	2.4	.1	2.0	.0	90.9
E	1.9	.3	1.1	.0	.0	.0	.0	2.3	1.4	.3	2.7	.0	.9	.0	91.4
SE	3.3	2.0	1.3	.0	.0	.0	.0	8.8	3.5	.0	.7	.0	.4	.0	86.6
S	3.2	1.3	1.4	.0	.0	.0	.0	6.0	2.7	.0	1.7	.3	.3	.0	89.1
SW	.5	.7	.4	.0	.0	.0	.0	1.6	2.3	.7	2.6	.0	.0	.0	93.0
W	1.5	1.4	.0	.0	.0	.0	.0	2.9	1.6	1.1	.7	.0	.7	.0	93.0
NW	1.9	.6	.4	.0	.0	.0	.2	3.1	1.2	1.3	4.6	.0	.5	.0	89.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6	1.2	.0	.0	.0	.0	.0	1.8	3.5	.0	7.0	.0	.0	.0	87.7
TOT PCT	1.7	.8	.7	.0	.0	.0	0	3.2	2.0	.7	2.7	.1	.7	.0	90.8
TOT OBS:	9147														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	2.2	.6	.3	.0	.0	.0	.0	3.1	2.2	1.7	3.0	.0	.4	.0	89.9
0600	1.1	.4	1.3	.0	.0	.0	.0	2.8	1.4	1.3	2.3	.0	.6	.0	91.3
1200	2.3	1.3	.4	.0	.0	.0	.1	4.2	1.9	.0	2.8	.1	.8	.0	90.2
1800	1.2	.6	.7	.0	.0	.0	.0	2.5	2.2	.1	2.4	.1	.8	.0	92.0
TOT PCT	1.7	.8	.7	.0	.0	.0	0	3.2	2.0	.7	2.7	.1	.7	.0	90.9
TOT OBS:	3229														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT PRGQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.1	3.7	4.8	.8	.2	0	12.4	11.3	10.4	13.3	12.6	18.0	13.3	12.3	11.7	9.1
NE	.9	6.6	6.9	1.0	.1	0	15.1	11.7	18.8	20.0	14.4	16.6	12.0	13.9	12.6	18.0
E	.9	4.6	3.2	.4	0	0	9.1	10.4	9.7	11.8	7.2	10.8	7.6	9.1	7.9	11.3
SE	.8	3.3	4.1	.9	.2	0	11.3	11.8	11.3	13.7	9.4	11.9	10.4	12.1	10.3	12.4
S	.9	4.8	3.0	1.3	.3	0	12.7	13.4	13.3	11.9	12.2	13.0	12.9	13.1	11.2	14.0
SW	.7	3.2	6.4	4.1	.4	.2	17.8	16.6	19.1	10.6	20.9	10.7	19.3	15.2	23.3	13.7
W	.6	3.1	3.1	1.3	.4	.1	8.6	14.7	7.3	7.2	9.3	7.7	8.8	10.7	9.1	7.8
NW	.7	4.3	3.1	.7	.2	0	8.9	11.4	6.7	9.0	8.4	9.1	10.6	10.8	8.0	9.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1						4.1	.0	6.0	2.9	3.6	2.2	4.7	2.7	3.6	2.4
TOT OBS	837	3133	2918	847	174	33	7964	12.4	1427	832	983	310	1419	1183	1089	499
TOT PCT	10.9	39.6	36.6	10.6	2.2	.4	100.0	12.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT PRGQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	09	15	21
N	3.3	6.3	2.1	.4	0	12.4	11.3	11.3	14.3	13.0	10.9
NE	3.4	8.4	2.9	.3	0	15.1	11.7	18.0	15.2	12.9	14.3
E	2.8	4.8	1.3	.1	0	9.1	10.4	10.4	8.3	8.4	9.0
SE	3.1	3.6	2.1	.4	.1	11.3	11.8	12.3	10.2	11.2	11.1
S	3.0	3.6	3.3	.7	.2	12.7	13.4	12.9	12.3	13.0	12.1
SW	2.7	7.1	3.7	1.9	.4	17.8	16.6	15.3	17.4	17.3	22.3
W	2.1	3.3	2.0	.8	.2	8.6	14.7	7.2	8.8	9.6	8.7
NW	2.8	4.2	1.6	.3	.1	8.9	11.4	7.6	8.6	10.7	8.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1					4.1	.0	4.8	4.4	3.8	3.2
TOT OBS	2186	3630	1674	389	85	7964	12.4	2279	1493	2804	1388
TOT PCT	27.4	45.6	21.0	4.9	1.1	100.0	12.4	100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1913-1974
(OVER-ALL) 1862-1974

AREA 0012 BUENOS AIRES
34.55 53.0N

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT PREG	TOTAL OBS
				11-21	22-29	34-47	48+			
0000Z	4.8	6.4	37.9	38.7	9.8	1.9	.5	12.3	100.0	2279
0600Z	4.4	6.1	39.4	38.8	10.9	2.1	.3	12.4	100.0	1499
1200Z	3.8	7.2	40.1	34.8	11.0	2.7	.5	12.4	100.0	2804
1800Z	3.2	5.8	41.4	38.6	11.0	1.8	.3	12.4	100.0	1588
TOT	325	512	3159	2918	847	174	35	12.4		7964
PCT	4.1	6.4	39.6	38.6	10.6	2.2	.4	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER	PCT FREQ OF CEILING HEIGHTS (FT; NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										TOTAL OBS
							000	150	300	400	1000	2000	3000	5000	8000+	NH <5/8 ANY HGT	
M	6.5	1.8	3.5	1.4	3.2	3.2	.0	.0	.1	.2	.6	1.8	.4	.1	.1	.1	9.7
NE	4.8	1.8	3.7	1.8	3.8	3.8	.0	.0	.0	.5	1.0	.8	.4	.3	.2	.1	8.7
E	2.5	1.8	2.1	1.0	3.9	3.9	.0	.0	.0	.2	.6	.9	.5	.1	.1	.0	4.7
SE	2.1	1.8	2.7	1.6	4.6	4.6	.0	.0	.2	.4	.6	1.5	.6	.0	.0	.0	4.9
S	4.2	2.1	3.5	1.4	3.9	3.9	.0	.0	.1	.5	1.4	1.2	.2	.2	.0	.0	7.5
SW	10.1	9.1	8.6	2.1	3.6	3.6	.3	.0	.1	.8	1.8	4.8	1.4	.2	.0	.0	16.5
W	3.7	1.8	2.1	.5	2.5	2.5	.1	.0	.0	.1	.6	.7	.2	.0	.0	.1	7.8
NW	3.7	1.1	2.1	.9	3.4	3.4	.1	.0	.0	.0	.3	1.1	.3	.0	.0	.2	5.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7	.8	1.0	.4	2.8	2.8	.1	.0	.0	.0	.3	.8	.0	.0	.0	.0	3.3
TOT OBS	669	333	399	230	2051	3.6	14	2	11	35	152	280	84	20	12	12	1469
TOT PCT	42.4	17.2	26.2	11.2	100.0		.7	.1	.5	2.7	7.4	13.7	4.1	1.0	.6	.6	68.7

TABLE 6

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

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER	PCT FREQ OF CEILING HEIGHTS (FT; NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										TOTAL OBS
							000	150	300	400	1000	2000	3000	5000	8000+	NH <5/8 ANY HGT	
M	6.5	1.8	3.5	1.4	3.2	3.2	.0	.0	.1	.2	.6	1.8	.4	.1	.1	.1	9.7
NE	4.8	1.8	3.7	1.8	3.8	3.8	.0	.0	.0	.5	1.0	.8	.4	.3	.2	.1	8.7
E	2.5	1.8	2.1	1.0	3.9	3.9	.0	.0	.0	.2	.6	.9	.5	.1	.1	.0	4.7
SE	2.1	1.8	2.7	1.6	4.6	4.6	.0	.0	.2	.4	.6	1.5	.6	.0	.0	.0	4.9
S	4.2	2.1	3.5	1.4	3.9	3.9	.0	.0	.1	.5	1.4	1.2	.2	.2	.0	.0	7.5
SW	10.1	9.1	8.6	2.1	3.6	3.6	.3	.0	.1	.8	1.8	4.8	1.4	.2	.0	.0	16.5
W	3.7	1.8	2.1	.5	2.5	2.5	.1	.0	.0	.1	.6	.7	.2	.0	.0	.1	7.8
NW	3.7	1.1	2.1	.9	3.4	3.4	.1	.0	.0	.0	.3	1.1	.3	.0	.0	.2	5.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7	.8	1.0	.4	2.8	2.8	.1	.0	.0	.0	.3	.8	.0	.0	.0	.0	3.3
TOT OBS	669	333	399	230	2051	3.6	14	2	11	35	152	280	84	20	12	12	1469
TOT PCT	42.4	17.2	26.2	11.2	100.0		.7	.1	.5	2.7	7.4	13.7	4.1	1.0	.6	.6	68.7

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.9	1.2	1.3	1.3	1.3	1.3	1.3	1.3
>5000	1.4	2.1	2.2	2.2	2.2	2.2	2.2	2.2
>3500	4.3	6.0	6.2	6.2	6.2	6.2	6.2	6.2
>2000	12.0	18.5	19.9	19.9	19.9	19.9	19.9	19.9
>1000	16.2	25.4	27.3	27.4	27.4	27.4	27.4	27.4
>400	17.6	27.7	29.8	30.0	30.0	30.0	30.0	30.0
>300	17.7	28.1	30.3	30.5	30.6	30.6	30.6	30.6
>150	17.8	28.1	30.4	30.6	30.6	30.6	30.6	30.6
>0	17.8	28.1	30.8	31.1	31.2	31.2	31.3	31.4
TOTAL	367	580	635	642	643	644	646	647

TOTAL NUMBER OF OBS: 2062

PCT FREQ NH <5/8: 68.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	29.8	12.1	13.8	8.8	7.6	6.4	9.6	7.1	8.5	.7	2265

APRIL

PERIOD: (PRIMARY) 1913-1974
(OVER-ALL) 1962-1974

AREA 0012 BUENOS AIRES
34.55 53.0W

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	NO PCP	.1	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.3
	TOT %	.1	.0	.0	.0	.1	.1	.0	.1	.0	.0	.1	.3
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	TOT %	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.3
1<2	PCP	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.3
	NO PCP	.1	.0	.1	.1	.1	.1	.0	.1	.0	.0	.2	.6
	TOT %	.1	.1	.1	.1	.1	.1	.0	.2	.0	.0	.2	1.0
2<5	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.8
	NO PCP	.7	.9	.1	.4	.5	1.7	.5	.4	.0	.0	.2	5.4
	TOT %	.7	1.0	.1	.5	.5	1.9	.5	.4	.0	.0	.2	6.2
5<10	PCP	.1	.1	.1	.4	.2	.2	.2	.1	.0	.0	.1	1.4
	NO PCP	3.3	3.7	2.0	2.3	3.9	7.4	2.9	2.4	.0	2.4	2.4	30.9
	TOT %	3.6	3.8	2.1	2.7	4.1	7.5	3.1	2.5	.0	2.5	2.5	31.9
10+	PCP	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.5
	NO PCP	7.7	7.9	5.0	5.1	6.7	14.2	5.6	5.0	.0	2.5	2.5	39.8
	TOT %	7.8	7.9	5.1	5.2	6.8	14.2	5.6	5.1	.0	2.5	2.5	40.3
TOT OBS		3146											
TOT PCT		12.4	12.8	7.4	8.7	11.8	23.8	9.3	8.3	.0	5.4	100.0	

TABLE 9

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

VSBY (MM)	SPO 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	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.4
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.1	.0	.0	.0	.0	.0	.1	.1	.0	.0	.4
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2
	4-10	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2
	22+	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.2
	TOT %	.1	.1	.1	.2	.1	.1	.1	.1	.0	.0	.1	1.0
2<5	0-3	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	.4
	4-10	.2	.4	.1	.2	.3	.2	.2	.2	.0	.0	.2	1.8
	11-21	.2	.4	.1	.3	.3	.2	.2	.2	.0	.0	.2	2.4
	22+	.0	.1	.0	.1	.2	.0	.1	.0	.0	.0	.1	1.0
	TOT %	.7	.9	.3	.8	.8	1.4	.4	.4	.0	.0	.2	5.6
5<10	0-3	.2	.2	.1	.1	.2	.1	.2	.1	.0	1.8	.0	3.0
	4-10	1.3	1.7	1.2	1.2	1.2	1.1	.8	.8	.0	.0	.0	9.2
	11-21	1.3	1.3	1.0	1.2	1.6	2.1	.9	.8	.0	.0	.0	10.3
	22+	.2	.2	.1	.4	.7	2.6	.8	.2	.0	.0	.0	4.6
	TOT %	3.0	3.4	2.4	2.8	3.7	5.7	2.4	1.9	.0	1.8	.0	27.1
10+	0-3	.6	.4	.5	.3	.3	.4	.3	.4	.0	2.3	.0	5.5
	4-10	3.8	4.0	3.1	3.4	3.2	4.2	2.2	3.3	.0	.0	.0	27.3
	11-21	3.3	4.0	2.6	2.9	3.7	3.7	2.3	7.2	.0	.0	.0	27.1
	22+	.3	.2	.3	.3	.9	2.9	.7	.1	.0	.0	.0	5.7
	TOT %	8.2	8.7	6.4	6.8	8.1	13.2	5.8	6.2	.0	2.3	.0	65.6
TOT OBS		4477											
TOT PCT		12.0	13.1	9.2	10.5	12.8	20.5	8.7	8.7	.0	4.4	100.0	

APRIL

PERIOD: (PRIMARY) 1913-1974
(OVER-ALL) 1862-1974

AREA 0012 BUENOS AIRES
34.35 59.04

TABLE 10

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

HR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	2.4	.0	.7	2.6	5.3	7.4	1.4	.2	.5	.0	20.5	79.5	419
0600	.7	.2	.2	2.6	5.6	9.3	4.0	.7	.5	.5	24.2	75.8	430
1200	.2	.2	.5	2.2	9.6	17.5	4.0	1.4	.5	.5	36.5	63.7	628
1800	.1	.0	.6	2.7	6.8	14.5	5.2	1.0	1.0	1.1	35.0	67.0	709
TOT	15	2	11	55	154	294	85	20	14	12	492	1534	2186
PCT	.7	.1	.5	2.8	7.0	15.0	3.9	.9	.6	.5	29.8	70.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	.2	.5	1.4	6.0	31.5	58.3	1202
0600	.5	.0	1.1	6.2	35.4	56.8	939
1200	.4	.8	.9	3.5	25.1	69.4	1327
1800	.3	.1	.7	3.2	20.1	75.6	1087
TOT	16	17	47	254	1244	2977	4885
PCT	.4	.4	1.0	3.6	27.3	69.4	100.0

TABLE 12

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

HR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000	2.7	3.3	14.2	14.8	71.0	372
0600	.8	1.3	10.8	18.5	70.8	390
1200	.2	1.0	6.4	35.0	60.6	606
1800	.1	.7	6.8	28.4	64.8	694
TOT	15	29	181	324	1357	2062
PCT	.7	1.4	8.8	25.4	65.8	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
00/84	.0	.0	.1	.3	.5	.0	.1	.0	6	.4
75/79	.0	.0	.0	.1	.1	.8	.3	.3	23	1.6
78/74	.0	.0	.0	.4	1.3	3.2	6.3	3.7	242	17.0
65/69	.0	.0	.1	2.1	3.9	8.7	12.0	9.4	316	26.3
60/64	.0	.0	.3	2.2	7.2	6.5	7.3	5.3	409	28.7
55/59	.0	.0	.0	.9	3.4	3.4	4.3	2.5	207	14.5
50/54	.0	.0	.0	.7	1.1	.4	.4	.6	29	1.4
TOTAL	0	8	7	52	233	328	436	337	1423	100.0
PCT	.0	.9	.5	3.8	16.4	23.0	30.6	23.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

HR	N	NE	E	SE	S	SW	W	NW	VAR	CALM
0000	.1	.1	.8	.0	.0	.0	.0	.1	.0	.0
0600	.3	.4	.1	.1	.1	.1	.3	.2	.0	.0
1200	3.3	6.1	2.0	1.0	.7	.8	1.2	1.5	.0	.3
1800	6.0	5.9	4.0	2.7	3.9	3.6	4.1	3.8	.0	1.3
TOT	2.1	3.6	2.0	3.5	6.7	3.1	2.5	2.4	.0	1.0
PCT	1.0	.4	.6	1.3	3.1	4.3	2.2	1.0	.0	.4
PCT	.1	.0	.1	.1	.3	.5	.1	.0	.0	.1
TOT	12.9	16.4	8.9	9.7	14.9	14.4	10.4	9.1	.0	3.2

TABLE 15

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

HR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	79	75	72	69	55	52	48	64.4	2290
0600	86	79	71	64	54	50	45	63.1	1504
1200	87	77	74	66	56	52	49	63.3	2363
1800	85	78	75	66	56	53	50	64.3	1560
TOT	87	76	75	65	55	52	45	64.9	7919

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	5.0	16.5	18.5	32.4	27.7	81	401		
0600	.0	5.1	13.0	20.5	35.2	28.1	81	292		
1200	.0	5.5	15.0	23.5	30.6	25.5	80	412		
1800	.0	5.1	20.1	29.3	26.8	14.8	76	350		
TOT	0	89	336	336	449	351	79	1463		

APRIL

PERIOD: (PRIMARY) 1913-1974
(OVER-ALL) 1862-1974

AREA 0012 BUENOS AIRES
34.55 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	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	8	.0	.3
11/13	.0	.0	.0	.0	.0	.0	.2	.1	.0	.1	.0	14	.1	.4
9/10	.0	.0	.0	.0	.0	.0	.4	.1	.2	.2	.0	26	.0	.8
7/8	.0	.0	.0	.0	.0	.1	.6	.3	.4	.1	.0	48	.1	1.6
6	.0	.0	.0	.0	.0	.5	.1	.1	.3	.1	.0	39	.0	1.1
5	.0	.0	.0	.0	.1	1.3	.2	.5	.4	.1	.0	83	.2	2.6
4	.0	.0	.0	.0	.2	1.9	.3	.9	.4	.0	.0	106	.1	3.5
3	.0	.0	.0	.0	.7	1.7	.9	.9	.3	.1	.0	137	.2	4.4
2	.0	.0	.0	.1	1.3	2.3	2.4	2.0	.2	.0	.0	244	.2	8.0
1	.0	.0	.0	.1	2.3	1.2	1.8	2.1	.3	.0	.0	232	.1	7.8
0	.0	.0	.0	.3	2.2	2.1	3.2	2.5	.4	.0	.0	341	.3	11.2
-1	.0	.0	.0	.6	1.7	2.1	3.0	1.6	.2	.0	.0	274	.4	8.9
-2	.0	.0	.0	1.5	1.7	3.0	3.2	.9	.0	.0	.0	308	.2	10.2
-3	.0	.0	.0	.9	1.4	1.9	1.7	.5	.0	.0	.0	192	.1	6.4
-4	.0	.0	.2	1.1	1.3	2.6	1.8	.3	.1	.0	.0	213	.1	7.1
-5	.0	.0	.2	1.0	1.3	2.3	1.0	.0	.0	.0	.0	173	.1	5.8
-6	.0	.0	.1	.6	1.0	1.7	.7	.1	.0	.0	.0	123	.1	4.0
-7/-8	.0	.0	.6	1.0	2.3	2.1	.7	.1	.0	.0	.0	199	.2	6.3
-9/-10	.0	.1	.5	.6	1.0	.6	.2	.0	.0	.0	.0	90	.1	2.9
-11/-13	.0	.1	.2	1.1	.6	.3	.1	.0	.0	.0	.0	70	.0	2.3
-14/-16	.0	.0	.4	.4	.1	.0	.0	.0	.0	.0	.0	21	.0	1.0
-17/-19	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	8	.0	.2
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	1	5	70	286	813	668	390	102	20	3	2994	83	2871	
PCT	.2	2.4	9.7	20.0	27.6	22.6	13.2	3.3	.7	.2	100.0	2.8	97.2	

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.4	1.0	.1	.0	.0	.0	1.3	.0	.9	.3	.0	.0	.0	1.2
1-2	.2	2.6	1.1	.0	.0	.0	3.8	.1	2.0	1.0	.0	.0	.0	3.1
3-4	.0	1.4	3.0	.0	.0	.0	4.3	.0	.3	1.9	.0	.0	.0	2.2
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	1.1	.1	.0	.0	1.1
7	.0	.0	.3	.1	.0	.0	.9	.0	.0	.2	.2	.0	.0	.4
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.9	3.6	.3	.1	.0	11.4	.1	3.2	4.3	.3	.0	.0	6.1

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.1	.7	.0	.0	.0	.0	.8	.2	.7	.0	.0	.0	.0	.9
1-2	.1	.6	.3	.0	.0	.0	1.1	.0	1.6	.4	.0	.0	.0	1.8
3-4	.0	.3	1.2	.0	.0	.0	1.7	.0	1.0	1.3	.0	.0	.0	2.3
5-6	.0	.1	.5	.2	.0	.0	.8	.0	.3	1.3	.0	.0	.0	1.6
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.0	2.3	.2	.0	.0	4.3	.2	3.5	3.8	.1	.0	.0	7.6

PERIOD: (OVER-ALL) 1963-1974

APRIL

AREA 0012 BUENOS AIRES
34.35 59.0W

TABLE 18 (CONT)

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.1	.8	.0	.0	.0	.0	.9	.4	1.0	.1	.0	.0	.0	1.3
1-2	.0	1.0	1.1	.0	.0	.0	2.1	.1	2.2	.8	.0	.0	.0	3.2
3-4	.2	.8	1.4	.1	.0	.0	2.4	.8	1.5	3.5	.1	.0	.0	5.0
5-6	.0	.1	.9	.1	.0	.0	1.1	.0	.1	3.0	.3	.0	.0	3.4
7	.0	.1	.3	.3	.0	.0	.9	.0	.4	1.8	1.6	.0	.0	3.8
8-9	.0	.0	.6	.3	.0	.0	.9	.0	.8	1.4	2.3	.1	.0	3.7
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	1.8	2.8	.2	.0	4.8
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	1.9	.0	.1	2.0
13-16	.0	.0	.3	.1	.0	.0	.4	.0	.0	.1	1.9	.3	.0	2.3
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.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	.3	2.8	4.8	1.3	.0	.0	9.2	.5	3.2	12.5	10.9	.6	.1	29.9

HGT	M						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
01	.1	.3	.0	.0	.0	.0	.8	.0	.7	.1	.0	.0	.0	.7	
1-2	.1	1.3	.7	.0	.0	.0	2.3	.0	1.9	.7	.0	.0	.0	2.6	
3-4	.0	1.1	1.7	.4	.0	.0	3.3	.0	1.3	2.3	.9	.0	.0	3.4	
5-6	.0	.1	1.4	.1	.0	.0	1.6	.0	.2	.8	.1	.0	.0	1.1	
7	.0	.0	.3	.4	.0	.0	.9	.0	.0	.1	.1	.0	.0	.2	
8-9	.0	.1	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.1	.2	.0	.0	.3	.0	.0	.1	.8	.0	.0	.1	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	3.2	4.8	1.4	.0	.0	9.3	.8	4.0	4.0	.4	.0	.0	8.5	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
01	12.3	6.2	.6	.0	.0	.0	19.1	088
1-2	1.0	13.2	6.2	.0	.0	.0	20.3	
3-4	.4	7.8	16.4	.6	.0	.0	25.1	
5-6	.0	.9	10.0	.9	.0	.0	11.7	
7	.0	.3	4.0	2.7	.0	.0	7.0	
8-9	.0	.1	2.2	2.7	.1	.0	5.1	
10-11	.0	.0	2.1	3.3	.3	.0	5.7	
12	.0	.0	.2	2.4	.0	.1	2.7	
13-16	.0	.0	.4	2.1	.3	.0	2.7	
17-19	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.7	28.8	42.0	14.8	.7	.1	100.0	1382

PERIOD: (OVER-ALL) 1969-1974

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
0-6	2.2	8.9	14.2	5.0	1.8	.8	1.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	488	3
6-7	.1	1.3	6.3	6.4	4.1	2.7	1.5	.4	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	442	6
8-9	.0	.3	.6	2.0	3.0	1.3	2.2	1.3	1.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	241	6
10-11	.0	.3	.3	.3	.8	.5	.7	.1	.3	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	68	6
12-13	.0	.0	.8	.3	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	6
13-14	.0	.0	.0	.2	.1	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	6
INDET	9.0	3.1	3.4	2.9	2.7	1.1	1.3	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	489	3
TOTAL	220	270	499	393	292	138	142	45	48	3	1	0	1	0	0	0	0	0	0	1882	5
PCT	11.3	13.8	25.0	17.1	12.9	7.1	7.3	2.3	2.3	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1857-1976

AREA 0012 BUENOS AIRES
34.6S 52.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.1	1.0	.5	.0	.0	.0	.0	4.6	.7	2.9	13.7	.0	.3	.0	78.4
NE	3.1	.8	.5	.0	.0	.0	.0	4.4	4.3	2.0	16.6	.2	.0	.0	72.9
E	5.2	3.0	.8	.0	.0	.0	.0	9.9	3.8	.8	5.2	.0	.5	.0	80.1
SE	7.4	3.8	1.4	.0	.0	.0	.0	12.5	3.6	1.5	.7	.0	.0	.0	82.4
S	5.6	.4	.4	.0	.0	.0	.0	6.4	1.5	.8	1.1	.0	.7	.0	90.0
SW	1.0	2.4	.0	.0	.0	.0	.0	3.4	2.0	.5	4.0	.0	.8	.0	89.3
W	.9	2.1	.0	.0	.0	.0	.0	5.0	1.3	1.2	10.3	.0	.4	.0	84.0
NW	2.9	.7	.0	.0	.0	.0	.0	3.6	1.2	1.4	11.1	.0	1.1	.0	81.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2	.0	.0	.0	.0	.0	.0	1.2	2.5	.0	23.0	.6	2.5	.0	70.2
TOT PCT	3.0	1.6	.4	.0	.0	.0	.0	4.9	2.3	1.4	9.9	.1	.6	.0	81.2
TOT OBS:	2929														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0600Z	4.1	2.0	.2	.0	.0	.0	.0	6.3	2.0	1.4	9.1	.0	.6	.0	80.5
0600Z	2.4	1.2	.7	.0	.0	.0	.0	4.4	2.6	3.1	8.7	.0	.0	.0	81.6
1200Z	2.8	.9	.1	.0	.0	.0	.0	3.8	1.6	.9	11.3	.0	.9	.0	82.0
1800Z	2.9	2.2	.6	.0	.0	.0	.0	5.8	2.7	.5	9.6	.3	.5	.0	80.8
TOT PCT	3.0	1.6	.4	.0	.0	.0	.0	5.0	2.1	1.4	9.8	.1	.6	.0	81.3
TOT OBS:	2993														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	1.1	7.4	4.3	.6	.1	.0		13.7	10.2	12.3	13.6	14.3	17.0	14.6	14.0	12.3	12.2
NE	.9	7.3	5.4	.6	.1	.0		14.5	10.9	13.5	14.7	13.2	12.9	14.2	12.1	18.2	15.4
E	.8	4.4	2.7	.9	.1	.1		9.0	11.6	9.8	10.9	8.4	9.9	8.0	8.7	7.8	10.0
SE	.7	4.3	3.0	1.2	.1	.1		9.3	12.2	10.4	10.2	8.6	8.3	8.4	9.7	9.1	9.2
S	.7	4.1	4.5	1.4	.3	.1		11.1	13.8	11.9	12.2	10.4	10.0	10.4	10.8	11.0	12.8
SW	.7	4.4	6.2	3.1	.7	.2		13.4	16.2	13.6	12.6	13.3	14.2	13.3	14.5	14.4	15.6
W	.8	4.2	4.3	1.5	.7	.3		11.6	15.2	10.3	11.9	9.3	11.6	11.8	13.6	12.6	11.7
NW	.7	3.4	3.7	1.1	.2	.0		11.2	11.9	9.2	11.3	10.1	13.2	12.3	14.0	9.4	9.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1							4.1	.0	4.0	2.7	3.8	2.8	4.6	2.7	3.3	3.3
TOT OBS	833	3299	2709	826	171	62	7900		12.3	1413	940	933	528	1446	1182	964	490
TOT PCT	10.8	41.8	34.3	10.3	2.2	.8		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40					00	03	06	09	12	15	18	21
N	4.3	7.4	1.8	.1	.0		13.7	10.2	12.3	13.6	14.3	17.0	14.6	14.0	12.3	12.2
NE	3.8	8.3	2.3	.2	.1		14.5	10.9	13.5	14.7	13.2	12.9	14.2	12.1	18.2	15.4
E	2.8	4.1	1.7	.3	.1		9.0	11.6	9.8	10.9	8.4	9.9	8.0	8.7	7.8	10.0
SE	2.5	4.5	1.9	.4	.1		9.3	12.2	10.4	10.2	8.6	8.3	8.4	9.7	9.1	9.2
S	2.5	4.7	3.1	.3	.3		11.1	13.8	11.9	12.2	10.4	10.0	10.4	10.8	11.0	12.8
SW	2.6	5.8	3.1	1.3	.5		13.4	16.2	13.6	12.6	13.3	14.2	13.3	14.5	14.4	15.6
W	2.6	5.0	2.5	1.0	.3		11.6	15.2	10.3	11.9	9.3	11.6	11.8	13.6	12.6	11.7
NW	3.0	3.5	2.3	.3	.1		11.2	11.9	9.2	11.3	10.1	13.2	12.3	14.0	9.4	9.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1						4.1	.0	4.0	2.7	3.8	2.8	4.6	2.7	3.3	3.3
TOT OBS	2223	3578	1643	126	130	7900		12.3	1413	940	933	528	1446	1182	964	490
TOT PCT	28.1	45.3	20.8	4.1	1.6		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1911-1976
(COVER-ALL) 1897-1976

AREA 0012 BUENOS AIRES
34.85 52.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000Z	4.0	7.1	41.1	34.1	10.5	2.2	.9	12.4	100.0	2389
0400Z	4.2	5.9	41.6	34.9	10.8	1.8	.8	12.3	100.0	1403
1201Z	3.8	6.4	41.9	33.8	11.0	2.5	.7	12.4	100.0	2628
1802Z	4.8	6.0	42.7	34.9	9.1	1.9	.8	11.9	100.0	1434
TOT	389	310	3299	2709	826	171	62	12.3		7900
PCT	4.1	6.5	41.8	34.3	10.5	2.2	.8	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN CLOUD COVER	PCT FREQ OF CEILING HEIGHTS (FT, NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION										TOTAL OBS
							000	100	200	300	400	1000	2000	3000	4000	5000		6000	8000+	ANY HGT
N	4.8	2.1	3.3	4.2	4.5	4.5	1.8	.1	.0	.0	1.0	2.0	.5	.2	.2	.0	8.6
NE	4.1	1.9	4.9	6.0	9.2	9.2	2.8	.1	.0	.3	1.9	3.4	.8	.1	.2	.0	7.8
E	1.7	1.9	1.9	2.0	4.7	4.7	.7	.0	.2	.1	1.1	.5	.6	.0	.1	.1	3.9
SE	1.8	1.0	1.6	1.1	4.4	4.4	.1	.0	.0	.3	.4	.4	.5	.0	.0	.0	3.7
S	2.7	1.8	3.0	1.9	4.2	4.2	.1	.0	.2	.4	.3	1.4	.3	.2	.2	.0	3.7
SW	6.8	4.7	4.5	3.1	3.9	3.9	.7	.0	.3	.8	1.6	1.8	.6	.2	.1	.0	13.1
W	4.3	1.7	3.5	2.0	4.0	4.0	.6	.0	.1	.6	1.0	1.5	.2	.2	.0	.0	7.2
NW	3.1	1.1	2.1	2.3	3.5	3.5	.6	.0	.0	.2	.9	1.1	.1	.1	.0	.1	7.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
CALM	2.6	.6	.6	2.4	4.0	4.0	1.7	.0	.0	.1	.4	.4	.0	.0	.1	.1	3.4
TOT OBS	331	289	397	383	1376	4.3	138	4	12	39	132	197	51	10	11	4	884
TOT PCT	33.8	16.5	25.3	24.4	100.0		8.8	.3	.8	2.9	8.4	12.9	3.6	1.1	1.0	.3	60.8

TABLE 6

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

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN CLOUD COVER	PCT FREQ OF CEILING HEIGHTS (FT, NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION										TOTAL OBS
							000	100	200	300	400	1000	2000	3000	4000	5000		6000	8000+	ANY HGT
N	4.8	2.1	3.3	4.2	4.5	4.5	1.8	.1	.0	.0	1.0	2.0	.5	.2	.2	.0	8.6
NE	4.1	1.9	4.9	6.0	9.2	9.2	2.8	.1	.0	.3	1.9	3.4	.8	.1	.2	.0	7.8
E	1.7	1.9	1.9	2.0	4.7	4.7	.7	.0	.2	.1	1.1	.5	.6	.0	.1	.1	3.9
SE	1.8	1.0	1.6	1.1	4.4	4.4	.1	.0	.0	.3	.4	.4	.5	.0	.0	.0	3.7
S	2.7	1.8	3.0	1.9	4.2	4.2	.1	.0	.2	.4	.3	1.4	.3	.2	.2	.0	3.7
SW	6.8	4.7	4.5	3.1	3.9	3.9	.7	.0	.3	.8	1.6	1.8	.6	.2	.1	.0	13.1
W	4.3	1.7	3.5	2.0	4.0	4.0	.6	.0	.1	.6	1.0	1.5	.2	.2	.0	.0	7.2
NW	3.1	1.1	2.1	2.3	3.5	3.5	.6	.0	.0	.2	.9	1.1	.1	.1	.0	.1	7.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
CALM	2.6	.6	.6	2.4	4.0	4.0	1.7	.0	.0	.1	.4	.4	.0	.0	.1	.1	3.4
TOT OBS	331	289	397	383	1376	4.3	138	4	12	39	132	197	51	10	11	4	884
TOT PCT	33.8	16.5	25.3	24.4	100.0		8.8	.3	.8	2.9	8.4	12.9	3.6	1.1	1.0	.3	60.8

TABLE 7

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

CEILING (FEET)	VSBY (NM)								
	>10	>8	>2	>1	>1/2	>1/4	>30YD	>0	>0
>4900	.8	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
>3000	1.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
>2500	3.4	5.3	5.7	5.8	5.8	5.8	5.8	5.8	5.8
>2000	6.4	16.1	17.9	18.0	18.1	18.1	18.2	18.2	18.2
>1000	13.1	23.4	26.2	26.4	26.5	26.6	26.7	26.7	26.7
>400	14.3	25.3	28.6	28.8	29.0	29.1	29.1	29.1	29.1
>300	14.7	26.0	29.4	29.6	29.8	29.8	29.9	29.9	29.9
>150	14.9	26.1	29.6	29.8	30.0	30.1	30.2	30.2	30.2
>0	14.9	26.4	30.3	30.9	31.3	32.8	37.0	38.5	38.5
TOTAL	238	414	478	484	494	514	580	604	604

TOTAL NUMBER OF OBS: 1968

PCT FREQ NM <5/8: 61.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
22.4	9.9	11.6	8.8	8.8	5.5	7.1	6.9	11.3	7.7	1773

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1857-1976

MAY

APEA 0012 BUENOS AIRES
34.6S 52.8W

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	.7	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.9	1.3	.3	.1	.1	.2	.4	.4	.0	1.3	5.2	
	TOT %	1.0	1.5	.3	*	.1	.2	.4	.4	.0	1.3	5.3	
1/2<1	PCP	*	.0	*	*	.1	.0	.0	.1	.0	*	.3	
	NO PCP	.1	.1	*	.0	.0	.0	*	.1	.0	.1	.3	
	TOT %	.2	.1	.1	*	.1	.0	*	.1	.0	.2	.6	
1<2	PCP	*	*	*	*	.0	.1	*	*	.0	.0	.3	
	NO PCP	.1	.1	.1	.0	.0	*	.1	.1	.0	*	.6	
	TOT %	.2	.1	.1	*	.0	.1	.1	.1	.0	*	.9	
2<5	PCP	.1	.2	.4	.2	.4	.2	.0	*	.0	.0	1.6	
	NO PCP	.6	1.7	.3	.1	.2	1.2	.8	.6	.0	.3	5.9	
	TOT %	.8	1.9	.8	.4	.6	1.4	.8	.6	.0	.3	7.5	
5<10	PCP	.4	.3	.3	.4	.1	.2	.2	.3	.0	*	2.2	
	NO PCP	6.4	9.3	3.1	1.8	2.8	5.4	2.1	4.2	.0	3.0	39.1	
	TOT %	6.8	9.6	3.3	2.2	2.9	5.6	2.4	4.4	.0	3.1	41.3	
10+	PCP	.1	.1	*	.1	.1	.1	*	.0	.0	.0	.3	
	NO PCP	6.3	6.6	3.7	3.1	3.3	9.7	6.4	5.1	.0	1.3	47.8	
	TOT %	6.4	6.7	3.8	3.2	3.4	9.8	6.5	5.1	.0	1.3	48.1	
TOT OBS													2319
TOT PCT													15.3 17.0 6.4 5.8 9.0 17.2 10.2 10.8 .0 4.4 100.0

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.1	.0	*	*	*	.1	.0	.0	1.2	
	4-10	.6	.7	.1	*	.1	.1	.2	.2	.0	.0	2.0	
	11-21	.1	.3	.1	.0	.0	.1	.1	*	.0	.0	.6	
	22+	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.7	1.1	.2	*	.1	.2	.3	.3	.0	.0	3.8	
1/2<1	0-3	.0	.0	*	.0	.0	*	*	.0	.0	.1	.2	
	4-10	.1	.1	*	.0	.0	.0	.0	.1	.0	.1	.3	
	11-21	*	*	*	*	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.2	.1	.1	*	.0	.0	.1	.1	.0	.1	.7	
1<2	0-3	.1	.0	.0	.0	.0	*	.0	.0	.0	*	.1	
	4-10	*	.1	.1	*	*	*	.1	.1	.0	.0	.4	
	11-21	*	.1	.0	.1	*	*	*	*	.0	.0	.3	
	22+	*	*	*	*	*	*	*	*	.0	.0	.2	
	TOT %	.2	.2	.1	.2	.1	.1	.1	.1	.1	.0	.6	
2<5	0-3	*	.1	*	.0	*	*	.1	.1	.0	.2	.6	
	4-10	.4	.6	.2	.2	.2	.3	.4	.3	.0	.0	2.6	
	11-21	.2	.6	.4	.1	.2	.4	.2	.2	.0	.0	2.4	
	22+	*	.1	*	.1	.1	.5	.1	.0	.0	.0	.9	
	TOT %	.7	1.4	.7	.4	.7	1.2	.8	.8	.0	.2	6.5	
5<10	0-3	.4	.1	.1	.1	.2	.3	.1	.1	.0	2.2	3.7	
	4-10	2.9	2.7	1.4	.9	1.1	1.1	.9	2.1	.0	.0	13.0	
	11-21	1.8	1.8	.8	.4	.9	2.0	.7	1.0	.0	.0	9.4	
	22+	.2	.2	.1	.2	.4	1.1	.4	.5	.0	.0	3.1	
	TOT %	5.2	4.8	2.4	1.7	2.6	4.3	2.1	3.8	.0	2.2	29.2	
10+	0-3	.5	.3	.5	.3	.2	.3	.5	.2	.0	1.7	4.6	
	4-10	4.7	4.6	3.0	3.1	2.8	2.8	2.9	3.3	.0	.0	26.8	
	11-21	3.1	3.3	1.4	1.4	3.0	4.6	3.0	2.3	.0	.0	22.2	
	22+	.3	.2	.1	.1	.8	2.0	1.1	.6	.0	.0	5.2	
	TOT %	8.6	8.4	5.0	4.9	6.8	9.7	7.1	6.6	.0	1.7	58.8	
TOT OBS													3900
TOT PCT													15.3 16.1 6.4 7.1 10.3 15.7 10.3 11.3 .0 5.2 100.0

MAY

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1957-1976

AREA 0012 BUENOS AIRES
34.85 52.8W

TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	899	1999	3499	4999	6499	7999				
0000	11.5	.3	1.0	2.2	6.1	7.7	1.6	1.6	.3	.0	32.3	67.7	313
0600	9.8	.3	.3	2.6	6.0	6.6	4.0	.3	.3	.9	31.0	69.0	348
1215	7.6	.4	.7	2.2	8.5	16.4	2.8	1.1	1.1	.0	40.7	59.3	343
1821	5.3	.0	.8	2.2	9.5	12.5	4.3	1.2	1.6	.2	37.5	62.5	306
TOT	138	4	12	39	134	199	86	18	16	4	620	1090	1710
PCT	8.1	.2	.7	2.3	7.8	11.6	3.3	1.1	.9	.2	36.3	63.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL
(GMT)							OBS
0000	3.1	.8	1.3	7.5	33.1	54.5	1091
0600	4.0	.4	1.1	7.6	33.2	53.7	825
1215	4.7	.8	.9	5.3	26.9	61.4	1186
1821	3.6	1.0	.8	5.3	24.9	64.3	863
TOT	154	26	41	254	1169	2321	3963
PCT	3.9	.7	1.0	6.4	29.5	58.5	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NM <5/8	TOTAL
(GMT)	<500	<1	<5	AND 5+	AND 5+	OBS
0000	12.5	14.4	23.6	18.1	58.3	271
0600	10.7	12.1	19.5	17.9	62.5	307
1215	7.8	10.1	17.3	27.4	55.3	303
1821	5.1	7.6	15.6	25.7	58.7	487
TOT	131	164	267	367	914	1368
PCT	8.4	10.3	16.3	23.4	58.3	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	PCT
									OBS	FREQ
79/79	.0	.0	.0	.1	.2	.2	.0	.0	2	.2
70/74	.1	.0	.0	.1	.2	.6	1.3	1.4	45	3.8
63/69	.0	.0	.1	.2	.9	3.0	7.3	7.8	227	19.2
60/44	.0	.0	.3	1.9	4.4	7.4	12.4	13.3	468	39.6
53/39	.0	.0	.0	.9	4.2	7.9	7.3	7.4	329	27.8
50/34	.0	.0	.0	.3	2.1	1.7	2.7	1.7	100	8.3
48/49	.0	.0	.0	.5	.1	.2	.3	.4	12	1.0
TOTAL	1	4	39	141	247	373	378	1483	1483	100.0
PCT	.1	.0	.3	3.3	11.9	20.9	31.3	32.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
79/79	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
70/74	.8	1.2	.1	.3	.3	.1	.1	.9	.0	.0
63/69	3.7	5.3	1.9	1.4	.9	1.6	2.0	2.4	.0	.0
60/44	4.9	6.6	4.9	4.3	4.4	4.3	3.0	3.1	.0	1.9
53/39	3.3	2.4	1.1	1.9	4.3	3.8	4.3	3.6	.0	.8
50/34	.4	.4	.4	.4	1.8	2.7	1.6	.7	.0	.2
48/49	.1	.0	.0	.1	.2	.3	.1	.1	.0	.0
TOTAL	13.2	16.1	8.4	8.3	12.1	13.0	11.2	12.7	.0	3.0

TABLE 15

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

HR	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
0000	73	70	68	61	51	48	45	60.1	2335
0600	74	70	67	60	50	47	43	59.3	1477
1215	80	72	69	61	52	48	42	60.9	2374
1821	81	73	71	62	53	49	43	61.9	1419
TOT	81	72	69	61	51	48	42	60.3	7803

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
0000	.0	2.7	11.3	19.4	29.1	37.3	83	330		330
0600	.0	.8	10.7	20.6	33.3	34.6	84	243		243
1215	.0	4.0	10.3	21.3	29.8	34.1	82	372		372
1821	.4	6.4	14.3	21.6	33.7	21.6	79	283		283
TOT	1	41	144	233	389	393	82	1228		1228

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1857-1974

MAY
TABLE 17

AREA 0012 BUENOS AIRES
34.85 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 DIP	41	45	49	53	57	61	65	69	73	77	81	TOT	W	WD
	44	48	52	56	60	64	68	72	76	80	84		FOG	FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.2	.1	.1	.0	.0	9	.0	.3
9/10	.0	.0	.0	.0	.1	.1	.2	.1	.0	.0	.0	12	.0	.5
7/8	.0	.0	.0	.0	.1	.3	.3	.3	.0	.0	.0	38	.3	1.3
6	.0	.0	.0	.0	.3	.3	.2	.2	.0	.0	.0	25	.2	.9
5	.0	.0	.0	.2	.7	2.0	.3	.3	.0	.0	.0	85	.7	2.9
4	.0	.0	.0	.4	1.4	3.3	.4	.5	.0	.0	.0	145	1.3	4.8
3	.0	.0	.0	.6	1.6	2.1	.9	.4	.0	.0	.0	137	.7	5.0
2	.0	.0	.0	.9	2.9	5.3	1.8	.4	.0	.0	.0	277	1.9	9.7
1	.0	.0	.2	1.0	3.0	2.6	2.1	.6	.0	.0	.0	228	1.0	8.5
0	.0	.0	.3	2.2	3.6	3.9	2.2	.2	.0	.0	.0	346	2.3	12.2
-1	.0	.0	.5	1.1	2.6	2.0	1.3	.1	.0	.0	.0	182	.4	7.2
-2	.0	.0	.3	3.1	2.9	2.5	.8	.1	.0	.0	.0	230	.7	9.2
-3	.0	.0	.8	1.6	1.3	1.3	.6	.0	.0	.0	.0	146	.1	6.0
-4	.0	.0	.4	1.3	1.6	1.4	.3	.0	.0	.0	.0	120	.1	5.2
-5	.0	.0	.8	1.3	1.9	1.0	.3	.0	.0	.0	.0	131	.1	5.4
-6	.0	.0	.3	.3	.9	.8	.4	.0	.0	.0	.0	71	.2	2.8
-7/-8	.0	.3	1.0	.8	.8	.8	.2	.0	.0	.0	.0	88	.1	3.6
-9/-10	.0	.3	.7	.3	.3	.3	.0	.0	.0	.0	.0	37	.0	2.3
-11/-13	.3	.2	.2	.4	.3	.1	.0	.0	.0	.0	.0	33	.1	1.3
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	.3
-17/-19	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	7	28	156	395	690	717	302	83	10	2	1	2391	246	2143
PCT	.3	1.2	6.3	16.5	28.9	30.0	12.6	3.5	.4	.1	.0	100.0	10.3	89.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

MGT	M						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.3	1.8	.0	.0	.0	.0	2.2	.1	1.0	.0	.0	.0	.0	1.1
1-2	.1	3.6	.4	.0	.0	.0	4.0	.1	4.0	.3	.0	.0	.0	4.8
3-4	.0	1.6	3.0	.1	.0	.0	4.7	.1	2.0	2.2	.1	.0	.0	4.4
5-6	.0	.7	2.7	.1	.0	.0	3.4	.0	1.0	2.0	.0	.0	.0	3.0
7	.0	.0	.7	.2	.0	.0	.8	.0	.1	.9	.1	.0	.0	1.1
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	7.6	4.8	.3	.0	.0	13.3	.3	8.1	3.8	.2	.1	.0	14.3

MGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.1	1.3	.0	.0	.0	.0	1.4	.1	.3	.0	.0	.0	.0	.4
1-2	.2	1.0	.3	.0	.0	.0	1.3	.0	.8	.1	.0	.0	.0	.9
3-4	.0	1.1	.6	.0	.0	.0	1.6	.0	.4	.4	.0	.0	.0	.8
5-6	.0	.4	1.0	.0	.0	.0	1.3	.0	.3	.6	.0	.0	.0	.9
7	.0	.0	.2	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.1
8-9	.0	.2	.2	.1	.0	.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	3.0	2.3	.2	.0	.0	3.7	.1	1.8	1.1	.2	.0	.0	3.3

PERIOD: (OVER-ALL) 1963-1976

MAY

AREA 0012 BUENOS AIRES
34.65 52.8W

TABLE 18 (CONT)

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

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.7	.0	.0	.0	.0	.8	.4	.9	.0	.0	.0	.0	1.3	
1-2	.2	1.2	.2	.0	.0	.0	1.4	.*	1.6	.8	.0	.0	.0	2.4	
3-4	.0	.9	.7	.0	.0	.0	1.6	.0	1.1	1.9	.1	.0	.0	3.1	
5-6	.0	.3	1.0	.1	.0	.0	1.4	.0	.4	2.7	.6	.1	.0	3.8	
7	.0	.2	.3	.1	.0	.0	.5	.0	.0	2.4	1.0	.0	.0	3.4	
8-9	.0	.0	.2	.1	.0	.0	.3	.0	.*	1.3	1.0	.0	.0	2.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	2.3	.1	.0	2.7	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.7	.0	.0	1.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.3	
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	.1	3.3	2.4	.3	.0	.0	6.2	.4	4.0	9.7	6.1	.2	.0	20.5	

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.9	.0	.0	.0	.0	1.0	.2	.6	.0	.0	.0	.0	.8	
1-2	.2	1.7	.3	.0	.0	.0	2.1	.0	2.4	.6	.0	.0	.0	3.0	
3-4	.0	1.4	2.0	.2	.0	.0	3.6	.0	1.2	2.6	.1	.0	.0	3.9	
5-6	.0	.4	1.8	.1	.0	.0	2.3	.0	.2	1.3	.3	.0	.0	2.2	
7	.0	.0	.7	.1	.0	.0	.8	.0	.0	.3	.2	.0	.0	.7	
8-9	.0	.1	.2	.2	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.*	.0	.0	.*	
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	4.3	3.0	.7	.0	.0	10.3	.2	4.4	3.3	.8	.0	.0	10.7	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.9	6.2	.0	.0	.0	.0	21.3	
1-2	.2	16.2	3.2	.0	.0	.0	20.1	
3-4	.2	9.7	13.3	.5	.0	.0	23.8	
5-6	.1	2.7	13.2	1.3	.1	.0	18.3	
7	.0	.3	3.6	1.8	.0	.0	7.6	
8-9	.0	.3	2.3	1.3	.0	.0	4.1	
10-11	.0	.0	.4	2.4	.1	.0	2.9	
12	.0	.0	.3	.7	.0	.0	1.0	
13-16	.0	.0	.0	.3	.1	.0	.4	
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	15.8	36.9	38.4	8.8	.3	.0	100.0	1072

PERIOD: (OVER-ALL) 1949-1976

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	9.1	13.4	7.2	1.4	.4	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	498	3
6-7	.1	1.3	3.3	7.6	3.9	1.3	1.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	343	5
8-9	.0	.1	1.2	1.4	2.0	1.4	2.0	1.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	140	8
10-11	.0	.1	.6	.6	.8	.7	.1	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	7
12-13	.0	.0	.1	.3	.1	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	8
>13	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
INDT	10.1	3.3	3.7	3.4	2.7	.7	.4	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	433	3
TOTAL	163	224	386	336	188	72	39	25	12	3	2	0	0	0	0	0	0	0	0	1468	4
PCT	11.1	15.3	26.3	22.8	12.8	4.9	4.0	1.7	.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1911-1975
(OVER-ALL) 1854-1975

JUNE

AREA 0012 BUENOS AIRES
34.45 52.64

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO. SIG WEA
N	2.6	1.3	1.2	.0	.0	.0	.0	5.0	4.0	2.2	10.7	.5	.5	.5	76.7
NE	4.4	3.8	1.0	.0	.0	.0	.0	9.2	5.5	1.2	10.7	1.2	.4	.0	71.9
E	9.1	6.6	.6	.0	.0	.0	.0	16.3	14.1	.5	3.9	1.3	.3	.0	62.6
SE	6.8	4.2	1.1	.0	.0	.0	.0	12.1	5.1	1.1	4.6	.5	.9	.0	76.4
S	2.9	1.4	1.0	.0	.0	.0	.4	5.7	3.7	1.1	4.9	1.3	.0	.0	83.8
SW	2.9	2.0	1.2	.0	.0	.0	.3	6.6	2.5	.7	5.3	.3	.1	.0	84.6
W	2.9	1.8	.4	.0	.0	.0	.1	5.3	4.4	1.4	2.6	.0	.9	.0	85.3
NW	3.7	2.3	2.6	.0	.0	.0	.0	8.6	3.1	.8	7.3	.0	.2	.0	80.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5	9.9	.0	.0	.0	.0	.0	7.4	9.6	.0	8.8	1.5	.7	.0	72.1
TOT PCT	3.8	2.8	1.0	.0	.0	.0	.2	7.7	5.0	1.1	6.2	.6	.4	.0	79.1
TOT OBS:	2175														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO. SIG WEA
0600	4.1	2.2	1.3	.0	.0	.0	.2	7.8	4.4	1.9	5.4	.4	.2	.0	60.0
0645	3.3	3.3	.0	.0	.0	.0	.0	6.6	6.8	2.6	6.1	.4	.2	.0	77.2
1245	3.8	3.6	.9	.0	.0	.0	.2	8.4	4.5	.0	5.7	.9	.8	.0	79.7
1821	3.6	2.1	1.8	.0	.0	.0	.4	7.8	4.3	.4	7.1	.5	.5	.2	79.3
TOT PCT	3.7	2.8	1.0	.0	.0	.0	.2	7.7	5.0	1.1	6.1	.6	.5	.0	79.2
TOT OBS:	2221														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-44	46+				00	03	06	09	12	15	18	21
N	.9	6.1	3.8	1.1	.1	.0	12.0	11.4	9.6	12.3	10.8	14.9	13.0	14.3	10.9	11.0
NE	.9	5.1	4.0	.7	.0	.0	10.7	11.0	11.4	12.2	11.7	9.1	9.8	8.7	11.2	12.3
E	.9	3.2	2.3	.3	.1	.0	8.7	11.4	6.9	7.2	5.0	5.7	6.6	7.1	6.0	9.3
SE	.6	4.2	2.3	.3	.1	.0	8.0	10.9	8.4	8.4	7.0	9.3	7.5	7.7	7.8	9.1
S	.7	3.4	3.7	1.1	.2	.1	11.2	12.3	11.4	11.6	11.2	10.1	10.7	11.3	11.7	10.6
SW	.8	6.1	7.7	3.6	.8	.2	19.2	13.7	7.4	16.6	18.6	17.8	18.8	18.8	23.3	17.1
W	.8	4.3	5.4	3.7	1.7	.4	18.3	18.7	18.2	14.9	18.9	18.0	17.3	15.0	14.3	18.7
NW	.7	5.0	3.9	1.3	.3	.0	11.8	13.3	9.9	13.3	10.9	13.3	12.3	13.6	10.1	10.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1						4.1	13.2	3.9	3.4	5.7	3.8	3.8	2.3	4.2	2.7
TOT OBS	763	3971	2514	989	260	56	7332	13.2	1298	920	854	479	1338	1210	934	479
TOT PCT	10.1	39.4	33.6	12.7	3.6	.7	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	2.3	6.0	2.2	.3	.0	12.0	11.4	10.7	12.3	13.6	10.9	
NE	2.9	5.8	1.8	.2	.0	10.7	11.0	11.7	10.8	9.3	11.7	
E	2.0	3.4	1.1	.2	.0	8.7	11.4	7.0	5.3	6.8	7.2	
SE	2.5	4.1	1.1	.2	.1	8.0	10.9	8.4	7.8	7.6	8.2	
S	3.0	5.4	2.1	.3	.1	11.2	12.3	11.3	10.8	11.1	11.4	
SW	3.0	8.3	5.8	1.8	.3	19.2	13.7	18.8	18.3	18.8	21.4	
W	2.4	5.6	4.6	2.8	.9	18.3	18.7	13.6	17.9	16.6	15.3	
NW	2.8	5.3	2.4	.9	.2	11.8	13.3	11.4	11.7	13.0	10.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.1					4.1	13.2	4.8	5.0	3.2	3.7	
TOT OBS	1932	3319	1397	538	126	7332	13.2	2218	1333	2368	1433	
TOT PCT	26.9	44.1	21.2	7.1	1.7	100.0		100.0	100.0	100.0	100.0	

JUNE

PERIOD: (PRIMARY) 1911-1975
(OVER-ALL) 1854-1975

AREA 0012 BUENOS AIRES
34.45 52.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	4.8	6.8	39.2	32.9	12.2	3.3	.7	12.9	100.0	2218
0400Z	5.0	5.8	38.0	33.7	13.7	3.3	.5	13.1	100.0	1333
1215Z	3.2	5.3	40.7	32.9	12.8	4.1	1.0	13.5	100.0	2568
1821Z	3.7	6.4	38.9	34.7	12.5	3.3	.5	13.1	100.0	1413
TOT	307	456	2971	2914	959	249	56	13.2		7332
PCT	4.1	6.1	39.4	33.4	12.7	3.6	.7	13.0	100.0	

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8-8	TOTAL OBS	MEAN CLOUD COVER
N	2.1	1.2	2.4	3.3		3.2
NE	2.3	1.9	3.4	5.5		3.6
E	1.4	.6	.9	3.8		3.8
SE	1.3	.4	2.1	3.0		3.6
S	2.9	1.9	2.9	3.6		4.8
SW	4.7	4.8	6.0	6.3		4.9
W	6.6	1.4	6.3	3.0		4.1
NW	2.6	.7	1.6	1.9		4.2
VAR	.0	.0	.0	.0		.0
CALM	2.0	.6	1.8	2.2		4.8
TOT OBS	329	170	345	412	1256	4.9
TOT PCT	36.2	13.8	27.5	32.8	100.0	

TABLE 6

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

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.9	.1	.0	.5	1.0	.7	.5	.1	.0	.2	5.2	
NE	1.3	.1	.1	.7	2.7	1.3	.2	.3	.2	.1	6.3	
E	.6	.0	.4	.2	1.0	1.2	.4	.0	.0	.0	2.8	
SE	.3	.0	.3	.4	2.0	.9	.2	.1	.0	.1	3.0	
S	.4	.0	.1	.8	2.3	1.5	.2	.1	.1	.1	5.8	
SW	1.3	.0	.2	1.0	4.3	2.8	.9	.2	.0	.0	10.9	
W	.4	.0	.1	.7	2.6	3.2	1.0	.0	.1	.0	9.3	
NW	.3	.0	.0	.3	.8	.7	.3	.1	.0	.0	4.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.8	.0	.0	.3	.8	1.0	.3	.0	.0	.0	3.5	
TOT OBS	79	2	15	62	221	163	49	9	3	3	644	1256
TOT PCT	6.3	.2	1.2	4.9	17.6	13.1	3.9	.7	.4	.4	51.3	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>8	>6	>4	>1/2	>1/4	>80YD	>0
>5500	.7	.8	.8	.8	.8	.8	.8	.8
>5000	1.3	1.6	1.7	1.7	1.7	1.7	1.7	1.7
>4500	3.4	5.4	5.6	5.7	5.7	5.7	5.7	5.7
>4000	9.6	16.0	18.1	18.4	18.5	18.5	18.5	18.5
>3500	16.6	26.9	34.2	35.3	35.7	36.0	36.1	36.1
>3000	19.9	32.7	38.7	40.3	40.6	40.9	41.0	41.0
>2500	19.0	33.4	39.7	41.4	41.8	42.1	42.2	42.2
>2000	19.2	33.5	39.9	41.5	41.9	42.2	42.4	42.4
>1500	19.4	34.4	42.2	44.2	44.8	45.0	45.4	45.4
>1000	19.4	34.4	42.2	44.2	44.8	45.0	45.4	45.4
TOTAL	245	434	532	556	566	581	611	611

TOTAL NUMBER OF OBS: 1262

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
19.5	9.0	9.8	7.2	7.0	6.1	9.3	6.9	20.1	5.1	1440

PERIOD: (PRIMARY) 1911-1975
(OVER-ALL) 1854-1975

JUNE

AREA 0012 BUENOS AIRES
34.4S 52.6W

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	*	.1	.0	.0	.0	.0	.0	*	.3	
	NO PCP	.6	.6	.1	.1	.3	.3	.1	.4	.0	.4	3.0	
	TOT %	.7	.7	.1	.2	.3	.3	.1	.4	.0	.5	3.2	
1/2<1	PCP	.0	.1	*	.1	.0	*	.0	.0	.0	.0	.3	
	NO PCP	*	*	.0	.0	.1	.2	*	.0	.0	*	.4	
	TOT %	*	.2	*	.1	.1	.2	*	.0	.0	*	.7	
1<2	PCP	*	.3	.1	*	*	.1	.0	.1	.0	.0	.7	
	NO PCP	.2	.2	.4	.1	.0	.3	.3	.1	.0	.1	1.7	
	TOT %	.3	.5	.5	.2	*	.3	.3	.2	.0	.1	2.4	
2<5	PCP	.1	.1	.6	.2	.1	.4	.2	.2	.0	.3	2.2	
	NO PCP	.4	1.1	.7	.5	.6	1.1	.8	.0	.0	.4	5.6	
	TOT %	.5	1.3	1.3	.7	.6	1.5	1.1	.2	.0	.7	7.8	
5<10	PCP	.3	.4	.3	.4	.5	.5	.3	.3	.0	.1	3.3	
	NO PCP	3.4	3.0	2.3	2.4	2.7	6.4	6.0	1.9	.0	1.8	30.0	
	TOT %	3.7	3.4	2.6	2.8	3.1	7.0	6.3	2.2	.0	1.9	33.3	
10+	PCP	*	.1	.1	*	*	.4	.2	.1	.0	.0	1.0	
	NO PCP	4.6	3.7	2.7	3.4	6.6	11.2	10.3	4.1	.0	3.0	51.6	
	TOT %	4.7	3.8	2.7	3.5	6.6	11.5	10.5	4.2	.0	3.0	52.6	
TOT OBS												2163	
TOT PCT												9.9 11.8 7.3 7.5 10.8 20.9 18.3 7.1 .0 6.2 100.0	

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	*	.1	*	*	.0	.3	.6	
	4-10	.4	.2	.1	.1	.2	.2	.1	.2	.0	.0	1.3	
	11-21	.1	.4	*	.1	.0	*	.0	.1	.0	.0	.7	
	22+	.0	.1	.0	.0	.0	*	.0	.0	.0	.0	.1	
	TOT %	.6	.6	.1	.2	.2	.4	.1	.3	.0	.3	2.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3	
	11-21	.0	.1	*	.1	.0	*	*	*	.0	.0	.3	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	*	.1	.1	.1	.1	.1	.1	.0	.0	*	.7	
1<2	0-3	*	*	*	.0	.0	.0	*	*	.0	.1	.1	
	4-10	.1	.1	.1	.1	.1	.2	.1	.1	.0	.0	.8	
	11-21	.1	.2	.2	.1	*	.1	*	*	.0	.0	.7	
	22+	.0	.1	.1	.1	.0	.1	.1	*	.0	.0	.4	
	TOT %	.3	.3	.4	.1	.1	.4	.2	.1	.0	.1	2.0	
2<5	0-3	.1	*	*	*	*	*	*	.1	.0	.3	.9	
	4-10	.3	.4	.4	.2	.2	.4	.2	.2	.0	.0	2.4	
	11-21	.2	.6	.4	.3	.3	.3	.1	.1	.0	.0	2.6	
	22+	.1	.1	.1	.1	.1	.4	.7	*	.0	.0	1.3	
	TOT %	.7	1.1	1.1	.7	.3	1.3	1.0	.4	.0	.3	7.4	
5<10	0-3	.2	.2	.1	*	.1	.1	.1	.1	.0	1.4	2.2	
	4-10	1.3	1.4	.7	1.1	1.3	1.3	.8	.9	.0	.0	9.1	
	11-21	1.1	1.1	1.0	1.0	1.0	2.6	1.6	.8	.0	.0	10.3	
	22+	.3	.2	.3	.2	.3	1.2	2.0	.3	.0	.0	4.9	
	TOT %	3.2	2.9	2.1	2.3	2.7	5.5	4.5	2.1	.0	1.4	26.6	
10+	0-3	.6	.6	.2	.3	.3	.3	.4	.5	.0	2.7	3.9	
	4-10	4.3	3.9	1.9	2.3	4.1	4.5	2.9	3.0	.0	.0	26.9	
	11-21	2.1	2.2	1.0	1.2	2.7	3.7	4.1	1.6	.0	.0	20.3	
	22+	.2	.2	.0	.1	.7	2.6	2.9	.5	.0	.0	7.2	
	TOT %	7.2	6.8	2.1	4.0	7.8	13.1	10.3	5.6	.0	2.7	60.3	
TOT OBS												3480	
TOT PCT												11.9 11.9 6.9 7.4 11.3 20.8 16.3 8.6 .0 5.0 100.0	

JUNE

PERIOD: (PRIMARY) 1911-1975
(OVER-ALL) 1854-1975

AREA 0012 BUENOS AIRES
34.4S 52.6W

TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	11.2	.0	.0	2.7	9.7	5.4	2.3	1.2	.0	.0	32.6	67.4	258
0600	12.0	.4	1.2	2.8	12.4	6.8	2.4	1.6	.4	.0	39.8	60.2	251
1215	2.0	.2	1.1	6.5	18.8	15.0	3.4	.9	.0	.4	48.4	51.6	446
1821	2.5	.0	1.6	4.7	19.1	15.3	5.2	.2	.9	.7	50.2	49.8	444
TOT	7.9	2	1.3	6.4	22.5	16.6	3.0	1.2	5	5	62.3	77.6	1399
PCT	5.6	.1	1.1	4.6	16.1	11.9	3.6	.9	.4	.4	44.3	55.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	2.4	.7	2.0	7.6	29.3	57.8	982
0600	4.1	.6	1.4	8.2	28.0	57.4	679
1215	2.3	.5	2.0	7.3	26.3	61.5	1078
1821	3.0	.9	2.4	6.2	23.1	64.4	789
TOT	10.1	2.3	7.2	23.9	94.4	212.9	3528
PCT	2.9	.7	2.0	7.3	26.8	60.3	100.0

TABLE 12

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

HR	<150 <30VD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8	TOTAL OBS
0000	13.1	14.0	22.9	17.3	39.8	214
0600	13.2	15.9	21.4	25.0	33.6	220
1215	2.2	4.6	22.0	31.1	46.9	409
1821	2.4	5.7	18.1	34.0	47.0	419
TOT	7.6	10.8	26.2	36.5	63.5	1262
PCT	6.0	8.6	20.8	28.9	50.3	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
70/74	.0	.0	.0	.0	.1	.1	.2	.4	4	.4
65/69	.0	.0	.0	.1	.3	.8	2.0	2.2	34	3.4
60/64	.0	.1	.1	.6	2.2	3.7	7.5	8.2	224	22.5
55/59	.0	.0	.2	.9	3.7	7.6	12.8	11.2	368	36.7
50/54	.0	.0	.0	.9	4.2	4.3	10.1	7.0	265	26.6
45/49	.0	.0	.0	.1	.9	2.1	2.6	1.7	74	7.4
40/44	.0	.0	.0	.0	.1	.1	.3	.5	10	1.0
TOTAL	0	1	3	24	114	189	354	310	997	100.0
PCT	.0	.1	.3	2.6	11.4	19.0	35.3	31.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.2	.1	.0	.0	.0	.0	.0	.1	.0	.0
65/69	1.6	1.9	.6	.2	.2	.4	.1	.3	.0	.0
60/64	4.1	6.1	2.0	2.6	2.5	2.1	1.3	1.6	.0	.4
55/59	4.7	3.4	3.2	3.4	4.2	7.6	5.0	2.2	.0	1.1
50/54	2.2	1.6	1.3	1.8	4.6	6.5	5.2	2.3	.0	.9
45/49	.4	.1	.2	.2	1.1	2.2	2.6	.7	.0	.1
40/44	.2	.1	.0	.0	.2	.1	.3	.2	.0	.0
TOTAL	13.2	13.1	7.2	10.1	12.7	18.3	14.4	7.8	.0	2.5

TABLE 15

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

HR	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	73	67	64	55	47	45	37	55.6	2204
0600	72	67	64	55	46	42	37	54.8	1323
1215	76	70	66	56	48	44	36	56.5	2317
1821	74	69	66	57	48	45	37	57.0	1390
TOT	76	69	65	56	47	44	36	56.0	7434

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	3.0	10.2	15.8	26.5	34.6	8.4	2.6	26.6	266
0600	.0	1.1	8.4	19.5	35.8	35.3	8.3	1.9	26.6	190
1215	.0	1.9	10.7	19.8	23.3	34.3	8.4	3.1	26.6	318
1821	.0	5.8	15.6	19.8	35.8	23.0	8.0	2.5	26.6	257
TOT	0	3.1	11.7	19.3	36.3	32.7	8.3	2.6	26.6	1031

JUNE

PERIOD: (PRIMARY) 1911-1975
(OVER-ALL) 1954-1975

AREA 0012 BUENOS AIRES
34.45 52.6W

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	37	41	45	49	53	57	61	65	69	TOT	N FOG	NO FOG
	36	40	44	48	52	56	60	64	68	72			
11/13	.0	.0	.0	.0	.0	.1	.1	.1	*	.1	10	.0	.5
9/10	.0	.0	.0	.0	.0	.1	.0	.1	.1	.1	10	.0	.5
7/8	.0	.0	.0	.0	.0	.3	.2	.2	.3	*	24	.1	1.1
6	.0	.0	.0	.0	.0	.2	.3	.2	.2	*	20	.0	1.0
5	.0	.0	.0	.0	*	.5	.3	.7	.2	.0	38	.1	1.8
4	.0	.0	.0	.0	.3	1.0	.9	.6	.3	*	64	.2	2.9
3	.0	.0	.0	.0	.3	1.2	1.9	.9	*	.0	90	.2	4.2
2	.0	.0	.0	.2	.5	2.7	2.7	1.7	.1	.0	163	.8	7.2
1	.0	.0	.0	*	1.4	3.1	2.8	1.4	.5	.1	189	.5	8.8
0	.0	.0	.0	.3	2.6	5.6	3.8	1.3	.2	*	283	1.4	12.5
-1	.0	.0	.0	.1	2.6	3.7	2.1	1.0	.2	.0	197	.7	9.0
-2	.0	.0	.1	.5	4.7	4.7	2.6	1.0	.2	*	282	1.4	12.5
-3	.0	.0	.0	.3	2.1	2.3	1.1	.5	.2	*	135	.4	6.2
-4	.0	.0	.0	.4	3.0	2.0	1.6	.3	*	*	154	.2	7.4
-5	.0	.0	*	1.3	1.9	.9	.6	.3	.0	.0	108	.0	3.3
-6	.0	.0	*	.3	.8	.8	.4	.2	.0	.0	35	.1	2.6
-7/-8	.0	.0	*	.7	1.1	.8	.6	.2	*	.0	72	.1	3.4
-9/-10	.0	.0	*	.2	.6	.4	.3	*	.0	.0	35	*	1.7
-11/-13	.0	.0	*	.5	.3	.6	.1	*	.0	.0	35	.0	1.7
-14/-16	.0	.0	.2	.5	.4	.2	.1	.0	.0	.0	29	.0	1.4
-17/-19	.0	.0	*	*	.1	.0	.0	.0	.0	.0	4	.0	.2
-20/-22	.0	.1	.4	.3	.0	.0	.0	.0	.0	.0	16	.0	.8
-23/-25	*	.6	.2	.1	.0	.0	.0	.0	.0	.0	19	.0	.9
TOTAL	1	14	25	129	638	480	229	80	12	60	2032	130	1902
PCT	*	.7	1.2	6.3	22.8	31.4	22.6	11.3	3.0	.6	100.0	6.4	93.6

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

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

HGT	N						PCT	NE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.5	1.3	.0	.0	.0	.0	1.7	.1	.6	.1	.0	.0	.0	.0	.8
1-2	.1	1.9	.2	.0	.0	.0	2.2	*	2.8	1.0	.0	.0	.0	.0	3.8
3-4	.0	.7	.8	.0	.0	.0	1.3	.0	.6	1.6	.0	.0	.0	.0	2.2
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.7	1.1	.1	.0	.0	.0	1.9
7	.0	.0	.3	.1	.0	.0	.6	.0	.0	1.0	.2	.0	.0	.0	1.2
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.3	.1	.0	.0	.0	.6
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.9	1.7	.2	.0	.0	6.3	.1	4.6	5.2	.3	.0	.1	10.6	

HGT	E						PCT	SE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.3	.0	.0	.0	.0	.5	.3	.5	.0	.0	.0	.0	.0	.8
1-2	.0	2.1	.7	.0	.0	.0	2.7	.0	1.3	.4	.0	.0	.0	.0	1.9
3-4	.0	.8	.9	.0	.0	.0	1.7	.0	.9	.3	.0	.0	.0	.0	1.4
5-6	.0	.1	.7	.1	.0	.0	.9	.0	.1	.8	.1	.0	.0	.0	1.1
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.0	.5
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.2	.1	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.3	2.6	.3	.0	.0	6.5	.3	3.0	2.3	.3	.0	.0	6.0	

PERIOD: (OVER-ALL) 1963-1975

JUNE

AREA 0012 BUENOS AIRES
34.45 52.6W

TABLE 18 (CONT)

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

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
41	.7	.5	.0	.0	.0	.0	1.3	.7	.1	.0	.0	.0	.9			
1-2	.0	2.4	.3	.0	.0	.0	3.8	.0	2.3	.0	.0	.0	2.9			
3-4	.0	1.1	.7	.1	.0	.0	1.8	.0	2.4	2.2	.1	.0	4.8			
5-6	.0	.3	.3	.3	.0	.0	1.2	.0	.3	3.5	.3	.1	4.3			
7	.0	.1	.3	.3	.0	.0	.8	.0	.1	1.9	1.0	.0	2.8			
8-9	.0	.0	.3	.3	.0	.0	.7	.0	.0	.6	.6	.0	2.1			
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.1	1.3			
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.8			
13-16	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.3	.1	1.8			
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.5			
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1			
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1			
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
TOT PCT	.7	3.5	2.6	.7	.0	.0	9.6	.7	6.0	10.9	4.5	.9	22.4			

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
41	.1	.6	.0	.0	.0	.0	.7	.2	.7	.0	.0	.0	.9				
1-2	.0	.6	.6	.0	.0	.0	1.2	.0	.1	.2	.0	.0	.3				
3-4	.0	.5	1.3	.1	.0	.0	1.9	.0	.0	.7	.1	.0	.8				
5-6	.0	.3	2.3	.4	.0	.0	3.0	.0	.1	.3	.3	.0	.6				
7	.0	.0	1.2	1.1	.3	.0	2.6	.0	.0	.3	.5	.0	.8				
8-9	.0	.0	.7	.8	.1	.0	1.7	.0	.0	.2	.0	.0	.2				
10-11	.0	.0	.6	1.9	.3	.1	3.0	.0	.0	.1	.3	.0	.4				
12	.0	.0	.1	.9	.4	.0	1.4	.0	.0	.0	.1	.1	.2				
13-16	.0	.0	.0	1.4	.8	.2	2.4	.0	.0	.1	.2	.1	.4				
17-19	.0	.0	.0	.3	.4	.0	1.0	.0	.0	.0	.0	.0	.0				
20-22	.0	.0	.0	.1	.4	.0	.5	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.2	.3	.0	.5	.0	.0	.0	.0	.0	.0				
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
TOT PCT	.1	2.0	6.8	7.3	3.3	.3	19.9	.2	.9	1.9	1.4	.3	4.6	85.9			

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	16.2	9.4	.2	.0	.0	.0	21.9	
1-2	.1	14.7	4.0	.0	.0	.0	18.8	
3-4	.2	6.8	8.6	.5	.0	.0	16.1	
5-6	.0	2.2	9.3	1.2	.1	.0	13.0	
7	.0	.1	3.8	3.2	.3	.0	9.4	
8-9	.0	.1	3.3	2.2	.1	.0	5.7	
10-11	.0	.0	1.7	2.9	.6	.1	3.3	
12	.0	.0	.1	1.3	.8	.0	2.4	
13-16	.0	.0	.3	2.7	1.2	.3	4.8	
17-19	.0	.0	.3	.7	.3	.0	1.3	
20-22	.0	.0	.0	.2	.3	.1	.8	
23-25	.0	.0	.0	.2	.3	.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	16.5	29.3	33.9	13.3	4.4	.6	100.0	883

PERIOD: (OVER-ALL) 1949-1975

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
4-6	1.5	9.8	9.9	3.4	2.5	.4	.5	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	366	3
6-7	.1	2.0	4.1	3.8	4.3	2.4	.9	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	245	6
8-9	.0	.2	1.2	2.9	2.6	1.9	1.6	.7	1.3	.1	.2	.2	.2	.0	.0	.0	.0	.0	.0	137	8
10-11	.0	.3	.2	.3	.6	.8	.6	.2	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	9
12-13	.0	.0	.5	.3	.3	.2	.8	.2	.3	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	40	11
>13	.0	.0	.0	.1	.0	.2	.4	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	10
INDEX	9.8	2.7	3.6	3.3	3.5	1.4	1.4	.7	1.3	.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	347	5
TOTAL	134	183	237	220	166	88	76	26	48	15	12	8	2	0	0	0	0	0	0	1213	5
PCT	11.0	15.1	19.5	18.1	13.7	7.2	6.3	2.1	4.0	1.2	1.0	.7	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1910-1974
(OVER-ALL) 1854-1974

JULY

AREA 0012 BUENOS AIRES
34.45 52.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	4.7	1.3	.7	.0	.0	.0	.0	6.8	2.7	2.4	13.6	.9	2.5	.0	72.1
NE	7.2	4.5	2.1	.0	.0	.0	.0	12.8	5.5	5.4	13.5	.4	1.3	.0	65.1
E	6.0	4.0	2.0	.0	.0	.0	.0	12.0	2.2	2.3	8.2	.0	1.2	.0	75.2
SE	6.8	6.6	1.1	.0	.0	.0	.0	14.6	7.1	2.1	7.8	.0	.0	.0	68.4
S	3.4	3.4	.9	.0	.0	.0	.0	7.6	4.4	.5	5.9	.0	1.4	.0	80.4
SW	1.3	1.2	1.6	.0	.0	.0	.0	4.1	2.9	.1	3.6	.2	.3	.0	86.8
W	1.3	.0	1.7	.0	.0	.0	.0	3.0	1.6	.0	9.6	.5	.0	.0	85.4
NW	3.6	.0	1.7	.0	.0	.0	.0	3.4	1.7	1.4	10.1	.1	2.8	.0	79.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8	.8	.8	.0	.0	.0	.0	2.4	2.4	.0	41.8	2.4	.0	.0	91.2
TOT PCT	4.0	2.5	1.3	.0	.0	.0	.0	7.7	3.6	1.9	11.2	.4	1.1	.0	75.1
TOT OBS:	2350														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
0000	4.7	3.2	1.6	.0	.0	.0	.0	9.7	3.5	1.8	12.0	.4	.9	.0	73.1
0600	4.6	2.4	1.2	.0	.0	.0	.0	8.2	4.2	3.6	10.8	.6	.4	.0	73.9
1200	3.2	1.3	.7	.0	.0	.0	.0	3.2	2.2	1.6	10.1	.4	1.3	.0	80.3
1800	3.4	3.1	1.6	.0	.0	.0	.0	8.2	4.6	1.8	12.2	.3	1.5	.0	72.9
TOT PCT	4.0	2.4	1.3	.0	.0	.0	.0	7.7	3.5	1.9	11.2	.4	1.1	.0	75.3
TOT OBS:	2378														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.0	6.1	4.7	1.1	.3	.0	13.2	11.9	11.3	14.7	13.2	17.1	14.0	14.1	10.8	10.8
NE	1.0	7.1	6.4	1.4	.2	.0	16.1	12.1	16.1	16.0	17.3	13.7	13.1	13.6	17.3	17.0
E	.5	3.5	2.2	.6	.2	.0	6.9	11.6	7.9	8.0	6.0	5.4	6.1	6.6	7.1	6.9
SE	.7	4.3	3.1	.8	.4	.0	9.3	12.4	9.2	11.1	9.0	11.3	8.4	9.6	7.0	11.8
S	.6	4.4	4.7	1.4	.4	.1	11.6	14.1	11.7	11.2	11.8	10.9	12.9	10.4	11.6	12.5
SW	.9	3.3	7.3	3.6	.9	.2	18.2	16.4	18.4	13.8	17.3	16.2	19.4	17.6	22.0	15.7
W	.6	3.7	3.9	1.8	.7	.1	10.9	15.8	9.9	10.0	11.7	10.3	10.0	13.0	10.3	11.2
NW	.6	4.3	3.5	.8	.1	.0	9.7	11.9	8.2	10.1	8.2	10.9	9.4	12.0	9.4	9.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1						4.1	.0	4.3	3.1	3.6	4.4	4.7	3.1	4.2	2.9
TOT OBS	743	2848	2647	848	236	44	7388	13.0	1293	846	871	637	1304	1231	969	421
TOT PCT	10.1	38.8	35.6	11.3	3.2	.6	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40				00	03	06	09	12	15	18	21
N	3.3	6.7	2.3	.5	.1	13.2	11.9	12.8	14.3	14.1	10.8		
NE	3.9	8.3	3.1	.6	.1	16.1	12.1	17.7	16.0	14.3	17.2		
E	2.1	3.4	1.1	.3	.1	6.9	11.6	7.9	8.0	6.3	7.7		
SE	2.6	4.4	1.7	.5	.1	9.3	12.4	10.0	9.8	9.0	8.4		
S	2.4	3.2	3.1	.7	.2	11.6	14.1	11.3	11.4	11.7	11.9		
SW	2.9	7.0	3.7	2.1	.5	18.2	16.4	17.4	16.9	18.3	20.1		
W	2.2	4.3	2.7	1.3	.4	10.9	15.8	10.0	11.3	11.4	10.7		
NW	2.3	3.0	1.6	.3	.1	9.7	11.9	9.0	9.1	10.7	9.3		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	4.1					4.1	.0	3.8	3.2	3.9	3.8		
TOT OBS	1936	3285	1979	470	118	7388	13.0	2139	1328	2333	1386		
TOT PCT	26.2	44.3	21.4	6.4	1.6	100.0		100.0	100.0	100.0	100.0		

JULY

PERIOD: (PRIMARY) 1910-1974
(OVER-ALL) 1854-1974

AREA 0012 BUENOS AIRES
34.45 52.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
0000	3.8	6.1	40.5	34.7	11.0	3.2	.6	12.3	100.0	2139
0600	5.2	5.4	36.1	38.5	11.4	2.9	.6	12.9	100.0	1328
1200	3.9	6.2	37.2	36.2	12.1	3.7	.7	13.4	100.0	2525
1800	3.8	6.0	41.7	34.3	11.0	2.7	.4	12.6	100.0	1386
TOT	303	442	2868	2647	848	236	44	13.0		7388
PCT	4.1	6.0	38.8	35.8	11.5	3.2	.6		100.0	

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCN	TOTAL OBS	MEAN CLOUD COVER
NE	4.2	2.3	4.4	7.8	15.7	5.3
E	1.4	.4	1.6	3.1	6.5	2.7
SE	1.3	.4	1.5	2.9	5.8	2.7
S	2.8	1.8	3.9	4.6	13.0	3.2
SW	7.0	3.6	6.1	9.1	26.8	4.4
W	2.4	1.3	1.7	2.1	7.5	4.3
NW	3.3	1.0	.8	1.6	6.7	3.5
VAR	.0	.0	.0	.0	.0	.0
CALM	2.3	.3	.7	4.0	7.3	3.2
TOT OBS	434	159	342	318	1489	4.8
TOT PCT	29.1	10.7	23.0	21.4	100.0	

TABLE 6

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

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
NE	2.7	.0	.5	.7	3.2	1.9	.6	.0	.0	.3	8.6	
E	.8	.0	.1	.4	1.1	1.1	.3	.0	.0	.1	2.8	
SE	1.4	.0	.1	.6	.8	.5	.3	.1	.1	.0	2.1	
S	.7	.0	.0	1.1	2.1	2.4	.8	.1	.0	.0	6.0	
SW	1.5	.0	.2	1.3	3.0	2.1	1.0	.1	.1	.2	12.3	
W	.5	.0	.1	.5	.9	.6	.4	.1	.0	.0	4.4	
NW	.6	.0	.1	.3	.8	.3	.2	.1	.0	.1	4.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.2	.0	.0	.1	.4	.6	.0	.0	.1	.0	2.7	
TOT OBS	191	0	18	78	204	133	60	8	8	11	788	
TOT PCT	12.8	.0	1.2	5.2	13.7	10.3	4.0	.8	.8	.7	50.9	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0
>4500	.7	1.1	1.2	1.2	1.2	1.2	1.2	1.2
>3000	1.0	1.6	1.7	1.8	1.8	1.8	1.8	1.8
>2500	3.3	5.6	5.8	5.8	5.8	5.8	5.8	5.8
>2000	8.4	14.9	15.7	16.0	16.1	16.1	16.2	16.3
>1000	13.5	23.2	28.3	29.1	29.3	29.7	29.9	29.9
>600	13.9	29.4	33.5	34.3	34.5	34.9	35.1	35.1
>300	16.3	30.3	34.6	35.5	35.8	36.2	36.3	36.3
>150	16.3	30.3	34.6	35.5	35.8	36.2	36.3	36.3
>0	16.4	30.7	36.0	37.7	38.1	40.3	48.1	48.8
TOTAL	241	432	530	535	561	597	709	720

TOTAL NUMBER OF OBS: 1474

PCT FREQ NH <5/8) 51.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
20.1	7.7	9.6	6.9	6.0	4.8	6.2	7.7	17.8	11.2	1639

JULY

PERIOD: (PRIMARY) 1910-1974
(OVER-ALL) 1854-1974

AREA 0012 BUENOS AIRES
34.4S 52.6W

TABLE 8

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

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.7	*	.3	*	.1	.0	.0	.0	.0	1.2	
	NO PCP	1.2	1.3	.3	.5	.4	.5	.5	.5	.0	2.0	7.7	
	TOT %	1.2	2.2	.6	.7	.5	.6	.5	.5	.0	2.0	8.9	
1/2<1	PCP	*	.1	.1	.1	*	.0	.0	.0	.0	.0	.3	
	NO PCP	.3	.3	.0	.0	*	.1	.1	.1	.0	.0	.8	
	TOT %	.3	.4	.1	.1	.1	.1	.1	.1	.0	.0	1.1	
1<2	PCP	.2	.7	*	.1	.1	*	.1	*	.0	.0	1.2	
	NO PCP	.2	.3	.0	*	*	*	.0	.1	.0	.1	.8	
	TOT %	.3	1.1	*	.1	.1	.1	.1	.1	.0	.1	2.0	
2<5	PCP	.1	.4	.3	.3	.4	.2	.1	.2	.0	*	2.0	
	NO PCP	.7	1.2	.2	.4	.4	.6	.4	.1	.0	.2	4.1	
	TOT %	.8	1.6	.6	.7	.7	.8	.4	.3	.0	.2	6.0	
5<10	PCP	.4	.6	.3	.2	.3	.3	.1	.1	.0	.1	2.4	
	NO PCP	3.9	7.7	2.5	1.8	3.5	7.0	3.2	2.3	.0	.9	32.7	
	TOT %	4.3	8.3	2.8	2.0	3.8	7.3	3.2	2.4	.0	1.0	35.1	
10+	PCP	.1	*	*	.1	.1	.2	*	.1	.0	.0	.6	
	NO PCP	4.1	6.7	2.8	2.9	6.4	10.6	5.0	3.9	.0	1.9	46.2	
	TOT %	6.2	6.7	2.8	3.0	6.5	10.7	5.0	4.0	.0	1.9	46.8	
TOT OBS												2940	
TOT PCT		13.1	26.1	6.9	6.6	11.7	19.6	9.3	7.4	.0	5.2	100.0	

TABLE 9

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

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.1	.1	*	*	.1	*	*	.0	1.4	1.9	
	4-10	.8	.8	.4	.3	.3	.3	.3	.3	.0		3.6	
	11-21	.1	.8	.1	.1	.1	.2	.1	.1	.0		1.4	
	22+	.0	.1	.0	.1	.0	.0	.0	.0	.0		.2	
	TOT %	1.0	1.7	.3	.5	.5	.6	.4	.4	.0	1.4	7.0	
1/2<1	0-3	.1	*	.0	.0	*	*	.0	.0	.0	.0	.1	
	4-10	.1	.1	.1	.0	.1	*	*	*	.0	.0	.3	
	11-21	*	.0	*	*	*	.0	.0	.0	.0	.0	.1	
	22+	.0	.1	*	*	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.3	.1	.1	.1	.1	*	.1	.0	.0	.8	
1<2	0-3	.0	.0	*	*	.0	.0	*	.0	.0	.1	.2	
	4-10	.1	.1	*	*	*	.1	*	.1	.0	.0	.5	
	11-21	.1	.4	*	*	.1	.1	.0	*	.0	.0	.5	
	22+	.0	.3	*	*	.0	*	*	.0	.0	.0	.3	
	TOT %	.3	.8	.1	.2	.2	.2	.1	.1	.0	.1	2.1	
2<5	0-3	.1	*	*	.0	.0	*	.0	*	.0	.2	.4	
	4-10	.4	.7	.2	.2	.2	.2	.2	.1	.0		2.4	
	11-21	.4	.6	.2	.3	.3	.3	.1	.1	.0		2.2	
	22+	.1	.1	.1	.1	.4	.3	.2	.1	.0		1.4	
	TOT %	.9	1.4	.5	.7	.9	.9	.5	.3	.0	.2	6.3	
5<10	0-3	.3	.2	.1	.1	.1	.2	*	*	.0	1.0	2.1	
	4-10	1.8	2.3	1.3	.9	.9	1.7	1.0	1.0	.0		10.9	
	11-21	1.5	3.3	.7	.8	1.5	2.8	1.2	.6	.0		12.2	
	22+	.2	.8	.2	.1	.3	1.4	.3	.2	.0		3.5	
	TOT %	3.8	6.5	2.3	2.0	2.8	5.9	2.5	1.8	.0	1.0	28.6	
10+	0-3	.5	.5	.3	.3	.4	.4	.3	.5	.0	2.1	5.2	
	4-10	3.5	3.9	1.9	2.2	3.2	3.2	1.6	2.6	.0		22.1	
	11-21	2.9	3.3	1.1	1.4	3.1	3.9	2.3	2.0	.0		22.4	
	22+	.2	.2	.1	.2	.3	2.4	1.4	.4	.0		5.3	
	TOT %	7.1	8.0	3.3	4.1	7.2	11.9	5.9	5.5	.0	2.1	53.0	
TOT OBS												3627	
TOT PCT		14.3	18.8	6.9	7.6	11.6	19.3	9.4	8.2	.0	6.8	100.0	

JULY

PERIOD: (PRIMARY) 1910-1974
(OVER-ALL) 1854-1974

AREA 0012 BUENOS AIRES
34.45 52.0W

TABLE 10

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

HRUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	21.4	.0	.3	3.5	8.8	6.6	3.1	.3	.3	.0	44.3	53.7	318
06009	16.8	.0	2.0	5.9	12.8	4.6	2.3	.0	.0	.7	45.1	54.9	304
12015	7.3	.0	1.5	5.8	13.7	13.0	5.2	.6	.2	.2	49.6	50.4	466
18021	8.3	.0	.8	4.7	15.5	10.6	4.0	.8	1.3	1.7	47.7	52.3	472
TOT	192	0	18	78	204	195	60	8	8	11	734	826	1560
PCT	12.3	.0	1.2	5.0	13.1	9.9	3.8	.5	.5	.7	47.1	52.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HRUR (GMT)	< 1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	7.8	1.4	1.9	5.8	29.7	53.4	988
06009	8.1	.3	2.2	6.7	30.6	52.1	791
12015	5.6	.8	2.0	6.0	29.0	56.6	1098
18021	6.8	1.2	2.2	6.9	25.0	57.8	835
TOT	284	35	75	230	1044	2014	3652
PCT	7.0	1.0	2.1	6.3	28.6	55.1	100.0

TABLE 12

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

HRUR (GMT)	< 150 < 500	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	22.8	23.8	31.0	17.0	52.0	294
06009	17.8	22.2	30.5	20.0	49.5	275
12015	7.0	9.0	20.2	31.8	48.0	446
18021	8.3	11.1	22.7	27.2	50.1	439
TOT	185	222	369	372	733	1474
PCT	12.6	15.1	25.0	25.2	49.7	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
70/74	.0	.0	.0	.0	.1	.1	.1	.1	4	.4
65/69	.0	.0	.1	.1	.2	.4	1.3	.8	29	2.7
60/64	.0	.0	.1	.1	1.1	3.3	6.3	4.9	188	15.8
55/59	.0	.0	.1	.7	1.5	2.8	10.7	16.8	345	32.5
50/54	.0	.0	.1	.6	4.0	5.8	10.7	9.6	326	30.8
45/49	.0	.0	.0	.4	1.8	6.2	4.5	3.8	177	16.7
40/44	.0	.0	.0	.0	.2	.6	.3	.3	11	1.0
TOTAL	0	0	3	19	92	200	362	384	1060	100.0
PCT	.0	.0	.3	1.8	8.7	18.9	34.2	36.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.0	.0	.1	.0	.0	.0	.0	.0	.1
1.1	1.2	.1	.0	.1	.1	.1	.1	.0	.0
4.2	3.7	1.4	.6	1.4	.8	1.0	.8	.0	.0
6.4	9.5	2.8	1.8	3.2	4.1	2.6	2.1	.0	.4
2.5	2.3	2.1	3.3	5.2	8.4	3.6	3.2	.0	.2
.9	.4	1.2	2.0	3.2	4.3	2.5	1.2	.0	.8
.1	.0	.1	.0	.2	.3	.3	.1	.0	.0
15.4	19.1	7.4	7.8	13.3	18.1	10.2	7.4	.0	1.4

TABLE 15

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

HRUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	67	63	54	46	43	41	53.8	2132
06009	70	66	63	53	45	43	40	53.3	1331
12015	76	68	64	55	46	43	39	54.9	2516
18021	73	68	65	56	47	44	40	53.8	1374
TOT	76	68	64	54	46	43	39	54.5	7353

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.2	9.3	14.9	32.3	41.3	83	269		
06009	.0	1.4	6.3	13.4	33.6	43.2	86	217		
12015	.0	1.6	5.3	23.4	35.8	44.0	85	321		
18021	.0	2.8	13.5	21.0	36.7	28.0	82	281		
TOT	0	22	94	203	378	391	85	1088		

JULY

PERIOD: (PRIMARY) 1910-1974
(OVER-ALL) 1854-1974

AREA 0012 BUENOS AIRES
34.43 52.6W

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	41	45	49	53	57	61	65	69	73	TOT	N FOG	WD FOG
	40	44	48	52	56	60	64	68	72	76			
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	4	.0	.2
11/13	.0	.0	.0	.0	.1	.1	.1	.2	.2	.0	14	.1	.5
9/10	.0	.0	.0	.0	.4	.7	.4	.7	.0	.0	35	.0	1.6
7/8	.0	.0	.1	.1	1.0	2.7	.8	.1	.0	.0	111	.5	4.4
6	.0	.0	.0	.1	.9	1.5	.3	.0	.0	.0	63	.3	2.5
5	.0	.0	.1	.3	1.3	2.7	.8	.2	.0	.0	126	.5	5.1
4	.0	.0	.1	1.3	2.8	2.2	.8	.1	.0	.0	165	.9	6.5
3	.0	.0	.1	.9	2.4	2.3	.7	.1	.0	.0	147	.8	5.7
2	.0	.0	.8	2.0	4.3	2.2	.4	.1	.0	.0	217	1.6	8.1
1	.0	.0	.4	2.6	3.1	1.6	.4	.1	.0	.0	185	1.0	7.3
0	.0	.1	.8	5.2	3.4	2.1	.9	.2	.0	.0	286	1.3	11.0
-1	.0	.0	1.4	2.8	2.0	.8	.2	.1	.0	.0	164	.6	6.7
-2	.0	.0	2.3	4.8	1.8	.4	.1	.0	.0	.0	214	2.1	7.4
-3	.0	.0	1.6	1.1	.9	.4	.3	.2	.0	.0	127	.6	5.1
-4	.0	.1	2.2	4.2	.8	.7	.4	.0	.0	.0	139	.6	5.6
-5	.0	.1	1.3	1.1	.3	.3	.3	.0	.0	.0	78	.3	3.2
-6	.0	.2	.6	.4	.2	.4	.0	.0	.0	.0	41	.3	1.6
-7-8	.0	.4	.9	.4	.7	.5	.1	.0	.0	.0	69	.1	2.9
-9-10	.0	.2	.4	.1	.3	.2	.0	.0	.0	.0	30	.1	1.2
-11/-13	.0	.2	.2	.2	.2	.0	.0	.0	.0	.0	19	.0	.8
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	.4
-17/-19	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	4	.0	.2
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	2	33	303	607	607	488	38	6	2	2248	264	1984	
PCT	.1	1.3	13.5	27.0	27.0	21.7	7.2	1.7	.3	.1	100.0	11.7	88.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	.6	.0	.0	.0	.0	1.0	.3	.9	.0	.0	.0	.0	1.3
1-2	.2	1.8	.3	.0	.0	.0	2.4	.1	2.9	1.1	.0	.0	.0	4.1
3-4	.1	1.3	1.8	.1	.0	.0	3.3	.0	2.1	3.4	.2	.0	.0	5.8
5-6	.1	.2	1.0	.2	.0	.0	1.4	.0	.1	1.8	.4	.1	.0	2.5
7	.0	.8	.4	.1	.0	.0	.3	.0	.0	1.4	.2	.0	.0	1.7
8-9	.0	.0	.1	.2	.0	.0	.3	.0	.1	.6	.3	.0	.0	1.0
10-11	.0	.1	.2	.0	.0	.0	.3	.0	.0	.6	1.0	.2	.0	1.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.7	.0	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.2	3.8	.6	.0	.0	9.4	.5	6.1	9.1	3.3	.7	.0	19.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.1	.1	.0	.0	.0	1.2	.3	.7	.0	.0	.0	.0	1.0
1-2	.1	1.2	.3	.0	.0	.0	1.8	.0	1.3	.6	.0	.0	.0	1.9
3-4	.0	.7	1.3	.0	.0	.0	2.2	.0	.3	.4	.1	.0	.0	.8
5-6	.0	.0	1.3	.1	.0	.0	.6	.0	.1	.8	.1	.0	.0	1.0
7	.0	.0	.9	.1	.0	.0	1.0	.0	.1	.1	.0	.0	.0	.3
8-9	.0	.0	.1	.2	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.0	3.3	.6	.0	.0	7.3	.3	2.3	2.1	.3	.1	.0	5.3

AUGUST

PERIOD: (PRIMARY) 1910-1974
(OVER-ALL) 1855-1974

APEA 0012 BUENOS AIRES
34.55 52.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	2.4	.7	1.5	.0	.0	.0	.0	4.6	1.0	3.3	7.8	.0	2.5	.3	81.8
NE	3.9	1.9	1.6	.0	.0	.0	.0	7.5	1.6	3.1	15.5	.7	2.9	.0	71.2
E	5.5	3.7	2.5	.0	.0	.0	.0	11.7	2.0	1.3	11.7	.0	2.0	.0	72.3
SE	5.3	3.0	2.9	.0	.0	.0	.0	11.2	1.0	1.3	11.9	.5	1.0	.0	74.1
S	5.1	4.1	1.2	.0	.0	.0	.0	10.4	1.5	1.8	8.9	.0	1.7	.0	76.0
SW	3.1	1.9	.1	.0	.0	.0	.0	5.0	.9	.8	5.5	.0	.4	.0	87.6
W	3.4	2.0	.4	.0	.0	.0	.0	6.0	.0	1.1	5.3	.0	2.1	.0	85.7
NW	.7	.2	.4	.0	.0	.0	.0	1.2	2.6	.7	6.5	.0	.5	.7	87.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9	2.8	.0	.0	.0	.0	.0	4.7	2.8	.9	40.2	.9	.0	.0	50.5
TOT PCT	3.6	2.2	1.2	.0	.0	.0	.0	7.0	1.3	1.8	10.9	.2	1.6	.1	78.0
TOT OBS:	2246														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
0000	4.6	2.5	1.8	.0	.0	.0	.0	8.8	1.9	2.8	9.9	.0	1.1	.2	77.1
0400	3.1	2.7	1.1	.0	.0	.0	.0	8.9	2.2	3.3	7.8	.4	.9	.0	76.9
1200	2.9	1.4	.8	.0	.0	.0	.0	5.1	.7	.1	13.6	.3	2.5	.1	77.8
1800	2.4	2.6	1.1	.0	.0	.0	.0	6.0	.7	.2	11.0	.2	1.6	.0	80.2
TOT PCT	3.6	2.2	1.2	.0	.0	.0	.0	7.0	1.3	1.8	10.9	.2	1.6	.1	78.0
TOT OBS:	2294														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.9	3.7	4.4	1.0	.2	.0	12.1	11.7	13.1	12.6	12.0	12.5	12.2	10.9	12.1	11.8
NE	1.0	6.9	6.0	1.2	.2	.0	15.4	12.0	16.3	15.8	17.5	13.2	14.8	13.5	16.6	14.4
E	.7	4.7	3.0	.8	.2	.0	9.4	11.8	9.9	10.4	7.8	10.9	8.4	9.7	8.5	11.7
SE	.8	3.7	3.3	1.3	.4	.1	11.3	12.6	10.7	13.9	9.2	16.0	10.2	12.0	9.5	15.7
S	.9	3.6	3.5	2.0	.5	.2	14.7	14.1	14.7	14.5	13.6	13.8	16.1	14.1	14.8	15.9
SW	1.0	3.2	6.2	2.4	.4	.1	15.4	14.7	16.1	13.8	18.0	13.1	15.4	13.9	17.8	13.2
W	.7	3.7	3.0	1.3	.4	.1	9.1	13.8	8.8	7.3	8.9	8.2	9.3	10.9	9.9	7.6
NW	.6	3.9	2.4	.8	.3	.1	8.3	12.3	3.5	8.5	8.7	9.6	9.6	11.3	6.1	6.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1						4.1	.0	3.0	3.2	4.4	3.1	4.0	3.6	4.8	3.3
TOT OBS	784	3038	2493	798	193	45	7355	12.4	1311	827	856	423	1349	1238	914	427
TOT PCT	10.7	41.3	33.9	10.8	2.7	.6	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40				00	03	06	09	12	18
N	3.4	6.2	2.0	.4	.1	12.1	11.7	12.9	12.2	11.6	12.0	
NE	3.6	8.3	2.8	.6	.1	15.4	12.0	16.1	16.0	14.2	13.9	
E	2.8	4.7	1.5	.4	.1	9.4	11.5	10.1	8.8	9.0	9.5	
SE	3.2	3.3	2.1	.7	.2	11.3	12.6	11.1	11.4	11.1	11.5	
S	3.2	6.5	3.8	.8	.3	14.7	14.1	14.6	13.4	15.2	14.9	
SW	3.2	6.0	4.7	1.3	.2	15.4	14.7	15.2	16.4	14.7	16.3	
W	2.4	3.8	2.0	.7	.2	9.1	13.8	8.2	8.7	10.1	9.2	
NW	2.2	3.9	1.6	.5	.1	8.3	12.3	6.7	3.0	10.4	6.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.1					4.1	.0	4.3	4.0	3.8	4.3	
TOT OBS	2067	3290	1303	393	100	7355	12.4	2144	1279	2587	1341	
TOT PCT	28.1	44.7	20.5	5.3	1.4	100.0		100.0	100.0	100.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1910-1974
(OVER-ALL) 1855-1974

AREA 0012 BUENOS AIRES
34.95 52.04

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALC	WIND SPEED (KNOTS)						40+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
0000Z	4.3	0.2	41.3	24.4	10.4	2.7	-7	12.3	100.0	2108	
0400Z	4.0	7.0	39.8	34.7	11.0	2.4	-5	12.5	100.0	1279	
1201Z	3.8	6.3	41.7	33.0	11.4	3.0	-7	12.7	100.0	2307	
1802Z	4.3	7.2	42.0	34.3	9.8	2.0	-4	11.9	100.0	1341	
TOT	301	403	3038	2495	798	105	43	12.4		7355	
PCT	4.1	6.5	41.3	33.9	10.8	2.7	-6	100.0			

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & C	TOTAL OBS	MEAN CLOUD COVER
NE	6.8	2.6	3.3	6.7		4.5
E	2.4	.6	1.4	3.8		3.3
SE	1.5	.7	1.6	3.9		3.6
S	3.6	1.7	2.4	5.0		3.0
SW	8.4	2.9	4.0	4.0		3.7
W	3.0	.9	1.7	2.1		4.2
NW	2.4	.7	.9	1.4		3.8
VAR	.0	.0	.0	.0		.0
CALC	1.2	.5	.2	3.9		6.0
TOT OBS	303	172	279	488	1442	4.5
TOT PCT	34.9	11.9	19.3	33.3	100.0	

TABLE 6

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

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.1	.1	.1	.6	1.0	.7	.4	.1	.3	.4	8.8
NE	2.7	.0	.2	1.1	2.2	1.8	.2	.2	.1	.1	10.7
E	1.5	.0	.1	.7	1.1	1.1	.1	.0	.1	.2	3.6
SE	1.5	.1	.2	.6	1.0	.7	.6	.1	.1	.0	3.0
S	1.7	.1	.3	.8	1.6	1.4	.4	.1	.1	.1	6.3
SW	1.6	.0	.2	.7	2.0	1.8	.5	.2	.0	.1	12.2
W	.7	.0	.1	.2	1.2	.7	.2	.0	.1	.1	4.4
NW	.3	.0	.1	.2	.5	.5	.1	.0	.0	.1	3.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALC	2.8	.0	.0	.2	.6	.3	.0	.0	.0	.1	1.8
TOT OBS	199	4	19	75	162	127	37	10	12	14	783
TOT PCT	13.8	.3	1.3	5.2	11.2	8.8	2.8	.7	.8	1.0	54.3

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>3	>2	>1	>1/2	>1/4	>30VD	>0
>8500	.9	1.4	1.6	1.6	1.6	1.6	1.7	1.7
>8000	1.3	2.0	2.2	2.2	2.2	2.2	2.4	2.4
>7500	2.9	4.3	4.7	4.7	4.7	4.7	4.9	4.9
>7000	6.7	11.3	12.8	13.1	13.2	13.4	13.7	13.7
>6500	11.1	20.8	23.2	23.9	24.1	24.3	24.9	24.9
>6000	12.9	23.0	25.2	25.1	25.3	25.8	26.2	26.2
>5500	13.3	23.8	25.2	25.3	25.7	26.1	26.6	26.6
>5000	13.3	26.1	29.3	30.6	30.9	31.4	31.8	31.8
>4500	13.3	26.8	31.6	32.8	33.4	34.0	34.8	34.8
TOTAL	191	383	433	470	480	531	643	634

TOTAL NUMBER OF OBS: 1433

PCT FREQ NH <5/8: 54.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCO	TOTAL OBS
29.1	9.9	8.7	5.3	5.6	3.9	3.9	6.7	17.0	12.1	1623

PERIOD: (P4) (MAY) 1910-1974
(OVER-ALL) 1855-1974

AUGUST

AREA 0012 BUENOS AIRES
34.95 52.64

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.1	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0
	NO PCP	.8	2.2	.7	.8	1.0	.8	.1	.1	.0	.0	1.7	8.9
	TOT S	.9	2.4	1.0	.9	1.0	.9	.2	.1	.0	.0	1.7	9.1
1/2<1	PCP	.1	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.5
	NO PCP	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.4
	TOT S	.2	.1	.1	.0	.1	.1	.1	.0	.0	.0	.0	.9
1<2	PCP	.0	.3	.2	.1	.2	.2	.0	.0	.0	.0	.1	1.1
	NO PCP	.7	.3	.0	.1	.1	.0	.1	.1	.0	.0	.1	1.0
	TOT S	.2	.6	.2	.2	.3	.2	.1	.1	.0	.0	.2	2.1
2<5	PCP	.1	.4	.2	.2	.4	.3	.2	.0	.0	.0	.0	1.8
	NO PCP	1.1	1.2	.6	.3	.2	.4	.3	.3	.0	.0	.2	4.4
	TOT S	1.2	1.6	.7	.5	.6	.7	.5	.3	.0	.0	.3	6.9
5<10	PCP	.2	.4	.3	.5	.5	.3	.2	.0	.0	.0	.0	2.5
	NO PCP	4.0	5.3	2.6	2.0	3.6	6.1	2.8	2.3	.0	.0	.9	20.5
	TOT S	5.0	5.9	2.9	2.6	4.1	6.4	2.9	2.3	.0	.0	.9	33.0
10+	PCP	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.3
	NO PCP	6.0	7.3	4.0	4.7	6.6	10.9	4.0	3.4	.0	.0	1.3	48.4
	TOT S	6.1	7.3	4.0	4.8	6.7	10.6	4.0	3.4	.0	.0	1.3	48.7
TOT OBS													2231
TOT PCT		19.6	17.9	8.8	8.9	12.8	19.2	7.8	6.3	.0	4.7	100.0	

TABLE 9

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

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.3	.0	.1	.1	.1	.0	.0	.0	1.4	2.2	
	4-10	.4	.7	.4	.4	.4	.3	.1	.1	.0	.0	3.0	
	11-21	.3	.3	.2	.1	.2	.2	.1	.1	.0	.0	1.6	
	22+	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT S	.8	1.8	.7	.6	.6	.8	.2	.2	.0	.0	1.4	7.5
1/2<1	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.3	
	4-10	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.4	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.2	.1	.1	.0	.1	.0	.0	.0	.0	.0	.1	.8
1<2	0-3	.0	.1	.0	.0	.0	.1	.0	.0	.0	.2	.4	
	4-10	.1	.2	.2	.1	.1	.1	.1	.0	.0	.0	.8	
	11-21	.2	.2	.1	.0	.2	.1	.1	.0	.0	.0	.9	
	22+	.0	.1	.0	.0	.0	.1	.1	.0	.0	.0	.4	
	TOT S	.3	.6	.3	.2	.3	.3	.2	.1	.0	.0	.2	2.5
2<5	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	.6	
	4-10	.8	.3	.3	.3	.2	.4	.3	.2	.0	.0	2.7	
	11-21	.3	.3	.4	.3	.3	.3	.3	.1	.0	.0	3.2	
	22+	.1	.2	.1	.2	.2	.2	.0	.0	.0	.0	1.0	
	TOT S	1.1	1.7	.8	.8	.8	.9	.6	.3	.0	.0	.2	7.4
5<10	0-3	.2	.4	.2	.1	.1	.1	.1	.2	.0	.8	2.2	
	4-10	2.2	1.9	1.2	1.4	1.4	1.4	1.0	1.0	.0	.0	11.4	
	11-21	1.7	2.3	1.2	.7	1.8	2.6	.8	.9	.0	.0	11.6	
	22+	.2	.4	.1	.1	.0	1.2	.3	.0	.0	.0	3.1	
	TOT S	4.3	4.9	2.8	2.3	3.0	5.1	2.4	2.0	.0	.0	.8	38.2
10+	0-3	.6	.3	.3	.3	.5	.4	.3	.2	.0	1.4	4.7	
	4-10	3.1	3.7	2.7	3.3	3.9	3.3	2.2	2.2	.0	.0	24.7	
	11-21	2.4	3.1	1.3	1.8	3.4	3.4	2.0	1.0	.0	.0	20.2	
	22+	.3	.3	.1	.3	.7	1.4	.5	.2	.0	.0	3.0	
	TOT S	6.2	7.3	4.6	5.9	6.4	10.6	5.0	3.6	.0	.0	1.4	53.3
TOT OBS													2431
TOT PCT		13.0	16.8	9.4	10.0	14.0	17.7	8.6	6.4	.0	4.0	100.0	

PERIOD: (PRIMARY) 1910-1974
(OVER-ALL) 1855-1974

AUGUST

AREA 0012 BUENOS AIRES
34.55 92.6W

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	149	299	399	999	1999	3499	4999	6499	7999				
0000	21.3	.3	1.2	4.2	4.8	3.0	1.8	.9	1.5	.6	39.5	60.5	334
0600	11.7	.7	.4	3.7	13.9	4.4	1.8	.4	.4	.7	38.1	61.9	273
1200	13.3	.2	1.4	7.4	10.2	13.9	2.6	.2	.6	.6	50.4	49.6	502
1800	7.2	.0	1.6	3.4	13.1	7.9	3.2	1.1	.7	1.6	39.6	60.4	444
TOT	202	4	19	76	163	127	38	10	12	14	645	888	1553
PCT	13.0	.3	1.2	4.9	10.5	8.2	2.4	.6	.8	.9	42.8	57.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	0.2	.8	1.3	6.6	30.3	50.8	953
0600	0.3	.3	2.4	7.1	33.0	50.3	661
1200	0.3	1.2	2.6	7.0	27.3	53.6	1102
1800	0.9	.8	3.7	6.2	23.6	59.8	763
TOT	2.8	2.9	8.6	23.3	98.8	195.8	3479
PCT	7.6	8.8	2.3	7.3	28.4	53.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000	24.1	26.8	33.7	12.4	54.0	291
0600	12.8	16.8	24.4	18.0	57.6	250
1200	13.5	16.3	28.8	23.6	48.9	473
1800	7.4	10.0	21.1	23.0	55.8	421
TOT	197	239	383	299	753	1435
PCT	19.7	16.7	26.7	20.8	52.8	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
65/69	.0	.0	.0	.1	.3	1.0	.8	.9	32	3.0
66/64	.0	.0	.2	.7	2.2	3.0	3.0	4.4	163	15.3
67/59	.0	.0	.1	.7	3.1	6.1	10.4	12.4	346	32.8
68/54	.0	.0	.1	.3	3.3	6.1	11.8	9.9	339	31.8
69/49	.0	.0	.0	.0	2.0	6.1	4.6	2.6	161	15.3
70/44	.0	.0	.0	.0	.7	.4	.3	.4	18	1.7
TOTAL	.0	.4	2.0	12.6	23.9	34.7	32.1	18	1055	100.0
PCT	.0	.4	1.9	11.8	22.7	32.9	30.4			

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.9	1.4	.1	.0	.1	.1	.0	.4	.0	.0
66/64	3.3	4.2	2.1	1.3	.8	1.2	.6	1.1	.0	.3
67/59	4.4	9.6	4.9	3.0	3.2	3.6	1.8	1.8	.0	.6
68/54	3.6	4.3	2.3	2.9	4.8	7.2	3.1	2.7	.0	.9
69/49	1.4	.4	.6	2.3	2.9	3.7	1.8	1.7	.0	.4
70/44	.1	.0	.1	.3	.3	.3	.3	.1	.0	.0
TOTAL	13.9	20.3	10.0	9.9	12.2	16.3	7.7	7.3	.0	2.1

TABLE 15

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

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	69	66	62	53	46	42	37	53.4	2144
0600	68	66	62	53	46	44	41	52.9	1276
1200	74	68	64	54	46	43	39	54.6	2531
1800	74	68	64	55	47	45	42	55.4	1318
TOT	74	67	63	54	46	43	37	54.1	7269

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.8	9.1	20.8	35.8	33.6	84	265
0600	.0	.9	10.1	20.2	33.9	34.9	84	218
1200	.0	2.1	11.7	21.6	32.9	31.7	83	334
1800	.0	4.7	13.3	24.6	29.1	24.1	80	278
TOT	.0	24	128	245	360	338	83	1095

AUGUST

PERIOD: (PRIMARY) 1910-1974
(OVER-ALL) 1955-1974

AREA 0012 BUENOS AIRES
34.95 52.0W

TABLE 17

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

AIR-SEA TMP DIF	37	41	45	49	53	57	61	65	69	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.4	.1	.0	11	.0	.5
11/13	.0	.0	.0	.0	.0	.3	.2	.1	.0	14	.0	.6
9/10	.0	.0	.0	.0	.0	.2	.4	.1	.0	16	.0	.8
7/8	.0	.0	.0	.1	1.3	1.1	1.0	.0	.0	77	.8	2.9
6	.0	.0	.0	.3	1.9	1.0	.3	.0	.0	74	1.0	2.5
5	.0	.0	.0	1.1	2.4	2.2	.9	.2	.0	139	1.4	5.2
4	.0	.0	.1	3.0	2.3	2.1	.6	.1	.0	174	1.1	7.2
3	.0	.0	.0	2.9	1.9	1.9	.6	.1	.0	154	1.1	6.2
2	.0	.0	.0	1.6	5.2	3.8	2.5	.3	.0	287	1.8	12.0
1	.0	.0	.0	1.7	2.1	2.7	1.5	.3	.4	184	.9	8.0
0	.0	.0	.0	2.6	3.4	3.3	1.7	.4	.2	246	.7	11.0
-1	.0	.0	.0	2.2	2.9	2.2	.5	.2	.0	171	.9	7.3
-2	.0	.0	.0	2.1	2.4	1.5	.5	.6	.1	153	.5	6.8
-3	.0	.0	.0	1.1	1.3	.7	.6	.1	.1	82	.0	3.9
-4	.0	.0	.1	1.4	1.1	.6	.4	.2	.0	84	.2	3.8
-5	.0	.0	.1	.8	.8	.6	.9	.1	.0	68	.0	3.2
-6	.0	.0	.3	.3	.5	.9	.3	.2	.0	37	.1	1.6
-7/-8	.0	.4	.5	.7	.5	.2	.1	.0	.0	51	.2	2.2
-9/-10	.0	.3	.4	.4	.7	.1	.0	.0	.0	41	.3	1.7
-11/-13	.3	.1	.1	.2	.1	.1	.0	.0	.0	22	.1	1.0
-14/-16	.0	.0	.1	.1	.0	.0	.0	.0	.0	6	.0	.2
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	8	34	320	297	564	377	148	40	4	2092	23.8	185.4
PCT	.4	1.4	15.3	28.5	27.0	18.0	7.1	1.9	.2	100.0	11.4	88.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

HGT	N					PCT	NE					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
<1	.0	1.3	.0	.0	.0	2.1	.0	1.2	.0	.0	.0	2.0
1-2	.1	2.5	.4	.0	.0	3.0	.1	2.2	.8	.0	.0	3.1
3-4	.0	1.1	2.0	.3	.0	3.4	.0	3.0	2.3	.2	.0	5.5
5-6	.0	.3	1.7	.4	.0	2.3	.0	.3	3.5	.4	.0	4.2
7	.0	.0	.4	.1	.0	.5	.0	.8	1.1	.2	.1	1.4
8-9	.0	.0	.1	.4	.0	.5	.0	.4	.2	.0	.0	.6
10-11	.0	.0	.0	.2	.0	.2	.0	.1	.3	.0	.0	1.0
12	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.3
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	4.3	1.3	.0	11.9	.9	7.0	8.8	1.1	.3	18.1

HGT	E					PCT	SE					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
<1	.1	1.3	.0	.0	.0	1.6	.2	1.4	.1	.0	.0	1.7
1-2	.2	1.9	.3	.0	.0	1.7	.0	1.3	.2	.0	.0	1.5
3-4	.0	.7	1.6	.1	.0	2.4	.0	.4	.3	.0	.0	.9
5-6	.0	.1	.4	.2	.0	.7	.0	.0	.3	.0	.0	.3
7	.0	.1	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.1	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.3	2.5	.5	.0	6.7	.2	3.1	1.2	.0	.0	4.5

PERIOD: (OVER-ALL) 1963-1974

AUGUST

AREA 0012 BUENOS AIRES
34.55 52.04

TABLE 18 (CONT)

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.6	.0	.0	.0	.0	.0	1.4	.9	1.1	.1	.0	.0	.0	2.1
1-2	.4	1.0	1.0	.0	.0	.0	2.9	.0	1.0	.8	.0	.0	.0	2.6
3-4	.0	1.0	2.3	.0	.0	.0	3.3	.0	2.5	1.7	.1	.0	.0	4.4
5-6	.0	.4	1.8	.3	.0	.0	2.5	.0	.4	1.7	.0	.0	.0	2.2
7	.0	.3	.8	.6	.0	.0	1.4	.0	.3	3.0	.6	.0	.0	5.8
8-9	.0	.3	.0	.1	.0	.0	.4	.0	.0	.3	1.5	.0	.0	1.7
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.8	.4	.5	.0	1.2
12	.0	.0	.5	.0	.0	.0	.6	.0	.0	.2	.4	.0	.0	.6
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.2	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.1	.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	1.0	4.0	6.6	1.4	.0	.0	12.9	1.0	6.1	10.7	3.3	.4	.0	21.5

HGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.5	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6
1-2	.0	.9	1.0	.0	.0	.0	1.9	.0	1.4	.6	.0	.0	.0	2.0
3-4	.0	.6	1.1	.0	.0	.0	1.7	.0	.4	.7	.0	.0	.0	1.1
5-6	.0	.1	.2	.0	.0	.0	.3	.0	.0	.4	.0	.0	.0	.4
7	.0	.8	.6	.3	.0	.0	.9	.0	.0	.3	.1	.0	.0	.4
8-9	.0	.0	.5	.6	.0	.0	1.1	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.1	.6	.0	.0	.8	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.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	2.2	3.5	2.0	.4	.0	6.1	.0	2.8	2.2	.1	.0	.0	4.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	15.1	8.4	.3	.0	.0	.0	23.7	
1-2	.9	12.0	9.1	.0	.0	.0	18.6	
3-4	.0	9.7	12.2	.7	.0	.0	22.3	
5-6	.0	1.6	10.1	1.2	.0	.0	12.8	
7	.0	.4	8.0	2.1	.1	.0	10.6	
8-9	.0	.3	1.6	2.8	.0	.0	4.6	
10-11	.0	.1	1.8	1.7	.0	.0	3.1	
12	.0	.1	.7	.7	.1	.0	1.6	
13-16	.0	.0	.1	.4	.3	.0	.8	
17-19	.0	.0	.1	.1	.4	.0	.7	
20-22	.0	.0	.0	.1	.1	.0	.3	
23-25	.0	.0	.0	.1	.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	16.0	33.2	40.0	9.8	1.0	.0	100.0	761

PERIOD: (OVER-ALL) 1949-1974

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	41-47	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<1	2.1	6.4	13.5	8.2	2.6	.3	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	411	3
1-2	.0	.9	4.7	6.2	4.0	2.2	1.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	239	6
3-4	.0	.3	2.3	2.7	2.0	.8	.7	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	160	7
5-6	.0	1.3	.6	.6	.6	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	5
7-9	.0	.0	1.2	.6	.2	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	5
10-11	.0	.0	.0	.9	.3	.1	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	20	7
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	340	3
TOTAL	132	196	342	248	165	76	32	23	15	7	3	4	0	0	0	0	0	0	0	0	1263	4
PCT	10.4	15.5	27.0	19.6	13.0	6.0	4.1	2.0	1.2	.6	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1910-1973
(OVER-ALL) 1859-1973

AREA 0012 BUENOS AIRES
34.33 52.84

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRIG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGS MD PCPN	FGS MD PCPN PAST HR	SMOKE HAZE	BLUVE DUST	SPRAY BLUVE SNOW	NO SIG WEA
N	3.1	.5	.9	.0	.0	.0	.0	4.4	1.1	.9	9.8	.0	1.7	.0	.0	83.0
NE	5.0	2.1	.8	.0	.0	.0	.0	7.9	.4	1.2	5.7	.2	1.0	.0	.0	84.2
E	8.0	1.8	2.4	.0	.0	.0	.0	12.2	.4	2.1	5.1	.5	.7	.0	.0	80.2
SE	4.5	.0	3.2	.0	.0	.0	.0	7.7	.9	1.7	3.0	.5	2.0	.0	.0	85.0
S	4.1	.4	2.6	.0	.0	.0	.0	7.1	2.2	.8	4.1	.0	1.7	.0	.0	84.2
SW	2.5	1.1	1.4	.0	.0	.0	.4	5.4	2.2	1.1	4.9	.0	.4	.0	.0	86.4
W	1.6	.8	.8	.0	.0	.0	.0	3.1	.0	.0	3.5	.6	.6	.0	.0	91.4
NW	.3	1.1	.0	.3	.0	.0	.0	1.4	.7	.0	9.2	2.4	1.4	.0	.0	85.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9	1.9	7.5	.0	.0	.0	.0	11.3	1.9	.0	13.2	3.8	.0	.0	.0	69.0
TOT PCT	4.0	1.1	1.8	.0	.0	.0	.1	6.9	1.1	1.0	5.6	.5	1.1	.0	.0	84.2
TOT OBS:	1760															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRIG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGS MD PCPN	FGS MD PCPN PAST HR	SMOKE HAZE	BLUVE DUST	SPRAY BLUVE SNOW	NO SIG WEA
0600	3.7	.9	1.1	.0	.0	.0	.3	6.0	.9	2.0	5.4	.6	1.4	.0	.0	84.9
0600	4.2	1.3	3.7	.0	.0	.0	.0	9.2	1.8	2.8	7.4	.3	1.3	.0	.0	78.4
1200	4.1	.9	1.9	.0	.0	.0	.0	6.8	1.0	.2	4.8	.2	1.4	.0	.0	85.0
1800	3.6	1.3	1.3	.0	.0	.0	.0	6.1	.8	.0	5.9	.8	.8	.0	.0	85.4
TOT PCT	3.9	1.1	2.0	.0	.0	.0	.1	7.0	1.1	1.0	5.7	.4	1.2	.0	.0	83.9
TOT OBS:	1788															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.9	5.2	3.3	1.0	.2	.0	10.6	11.3	9.8	10.0	11.2	12.0	10.3	12.0	10.7	9.2
NE	1.6	8.1	6.8	1.8	.3	.1	18.3	12.3	17.4	19.2	21.4	18.9	18.4	13.8	20.1	16.6
E	.9	6.2	3.3	.7	.0	.0	11.4	10.7	11.4	11.8	9.6	11.7	10.3	10.3	9.9	14.8
SE	.9	6.3	4.3	.9	.4	.0	12.7	11.8	12.9	14.0	11.0	13.0	12.9	12.4	11.4	14.9
S	.8	3.8	3.9	1.8	.2	.1	14.2	13.2	14.3	14.3	13.2	13.2	13.4	14.0	14.9	15.6
SW	.8	3.0	3.7	2.6	.9	.2	13.2	13.7	14.4	14.0	16.3	14.3	13.9	13.8	15.1	14.2
W	.7	3.2	2.4	.9	.3	.2	7.7	14.1	7.0	3.4	6.3	6.7	7.8	9.7	9.7	8.6
NW	.7	3.1	2.0	.6	.2	.0	6.7	11.6	4.4	7.4	7.3	6.6	5.2	7.6	5.8	5.9
VAR	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0	.0	.0	.0	.0	.0	3.0	.0	3.7	4.1	3.3	3.3	2.9	2.1	2.3	2.4
TOT OBS	631	2704	2193	649	165	34	6346	12.3	1032	740	688	498	1103	1147	729	449
TOT PCT	10.1	42.4	33.9	10.2	2.6	.5	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40				00	03	06	09	12	15	18	21
N	2.3	5.0	1.9	.4	.1	10.6	11.3	9.8	11.3	11.2	10.1		
NE	4.2	9.2	4.2	.3	.1	18.3	12.2	17.4	19.8	17.1	18.8		
E	2.8	3.9	1.6	.3	.1	11.4	10.7	11.4	11.8	10.4	11.8		
SE	3.4	6.4	2.2	.9	.1	12.7	11.8	12.9	14.0	12.6	12.7		
S	3.0	6.7	3.8	.6	.1	14.2	13.2	14.3	14.3	13.7	13.2		
SW	3.0	3.8	4.4	1.4	.3	13.2	13.7	14.4	14.0	13.9	14.7		
W	2.1	3.3	1.3	.6	.4	7.7	14.1	6.5	6.6	6.8	8.3		
NW	2.1	3.2	1.1	.3	.1	6.7	11.6	5.7	7.0	7.9	5.7		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.0	.0	.0	.0	.0	3.0	.0	3.7	4.1	3.3	2.5		
TOT OBS	1774	2884	1299	297	92	6346	12.3	1792	1126	2290	1176		
TOT PCT	28.0	43.4	20.3	4.7	1.4	100.0		100.0	100.0	100.0	100.0		

SEPTEMBER:

PERIOD: (PRIMARY) 1910-1973
(COVER-ALL) 1899-1973

AREA 0012 BUENOS AIRES
34.35 52.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (CPT)

HOUR	CALM	WIND SPEED (KNOTS)						48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
0600	3.9	7.4	43.4	32.8	10.1	2.0	.6	11.9	100.0	1792	
0600	3.3	6.7	42.4	34.1	10.5	2.7	.4	12.3	100.0	1126	
1215	2.5	6.8	41.9	33.7	11.0	3.6	.6	12.7	100.0	2250	
1821	2.4	7.6	43.1	36.0	8.7	1.7	.9	12.0	100.0	1178	
TOT	190	431	2704	2153	649	185	34	12.3		6346	
PCT	3.0	7.1	42.6	33.9	10.2	2.6	.5	100.0			

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8-8	TOTAL OBS	MEAN CLOUD COVER
NE	6.0	2.0	4.3	5.8		4.2
E	3.4	.9	2.3	4.7		3.1
SE	3.1	1.5	3.6	4.3		3.2
S	6.1	1.7	2.3	4.3		4.1
SW	8.0	2.0	2.7	3.4		3.3
W	3.6	1.0	1.0	.9		2.7
NW	2.6	.7	1.9	.8		3.3
VAR	.0	.0	.0	.0		.0
CALM	1.7	.1	.2	1.2	1049	3.6
TOT OBS	424	114	224	287	1049	4.1
TOT PCT	40.4	10.9	21.4	27.4	100.0	

TABLE 6

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

WIND DIR	000	150	300	600	1000	2000	3300	5000	6500	8000+	NH <5/8	TOTAL ANY HGT	TOTAL OBS
N	.4	1.0	1.1	.5	.8	.6	.4	.0	.1	.0	.0	6.6	
NE	.8	2.0	3.3	1.3	2.2	.9	1.0	.2	.3	.3	.3	12.8	
E	.6	1.0	1.2	.8	2.8	.5	.7	.1	.0	.2	.2	5.5	
SE	.5	.0	.0	1.0	2.2	2.0	.3	.2	.2	.1	.1	6.3	
S	.5	.0	.2	1.1	1.3	1.6	.1	.0	.4	.0	.0	9.0	
SW	.8	2.0	3.3	1.3	1.1	.8	.7	.0	.3	.1	.1	11.2	
W	.0	.0	.0	.2	.7	.1	.1	.1	.0	.0	.0	3.1	
NW	1.0	2.0	.0	1.1	.8	.2	.0	.1	.0	.0	.0	4.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.8	.0	.0	.2	.6	.0	.0	.0	.0	.0	.0	2.0	
TOT OBS	43	0	13	68	133	70	35	7	14	8	638	1049	
TOT PCT	4.1	0	1.2	6.5	12.7	6.7	3.3	.7	1.3	.8	62.7	100.0	

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0
>4800	1.5	1.8	2.0	2.1	2.1	2.1	2.1	2.1
>3600	2.0	2.4	2.7	2.8	2.8	2.8	2.8	2.8
>2400	4.0	5.3	5.9	6.0	6.0	6.1	6.1	6.1
>1800	7.7	11.0	12.3	12.8	12.8	12.9	12.9	12.9
>1000	13.1	22.0	24.8	25.5	25.5	25.7	25.7	25.7
>600	16.5	27.2	30.9	31.7	31.8	32.1	32.1	32.2
>300	17.1	28.3	32.2	32.9	33.0	33.3	33.3	33.3
>150	17.1	28.3	32.2	32.9	33.0	33.3	33.3	33.3
>0	17.2	28.6	33.0	34.4	34.6	35.0	37.2	37.7
TOTAL	180	299	343	389	362	374	389	394

TOTAL NUMBER OF OBS: 1049

PCT FREQ NH <5/8: 62.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS	
27.7	19.2	8.6	7.5	4.4	3.9	6.4	5.9	19.3	3.0	1104

SEPTEMBER

PERIOD: (PRIMARY) 1910-1973
(OVER-ALL) 1855-1973

AREA 0012 BUENOS AIRES
34.55 52.84

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.5	
	NO PCP	.6	.4	.9	.2	.3	.9	.2	.1	.0	.3	3.0	
	TOT %	.6	.7	.9	.2	.3	.7	.2	.1	.0	.3	3.4	
1/2<1	PCP	.0	.1	.2	.2	.1	.1	.0	.0	.0	.0	.7	
	NO PCP	.1	.2	.1	.1	.2	.1	.0	.1	.0	.0	.9	
	TOT %	.1	.3	.3	.3	.4	.2	.0	.1	.0	.0	1.6	
1<2	PCP	.0	.1	.1	.1	.3	.1	.1	.0	.0	.1	.7	
	NO PCP	.1	.2	.2	.1	.1	.1	.0	.1	.0	.0	.7	
	TOT %	.1	.3	.2	.1	.4	.2	.1	.1	.0	.1	1.9	
2<5	PCP	.1	.4	.3	.4	.3	.1	.1	.1	.0	.3	2.2	
	NO PCP	.2	1.2	.5	.5	.5	.3	.1	.1	.0	.1	3.4	
	TOT %	.4	1.5	.8	.9	.7	.3	.3	.2	.0	.4	5.9	
3<10	PCP	.2	.8	.7	.2	.2	.3	.1	.0	.0	.0	2.5	
	NO PCP	2.7	5.9	2.9	3.7	3.3	4.4	1.9	1.4	.0	.0	26.9	
	TOT %	2.8	6.8	3.6	4.0	3.5	4.4	2.0	1.4	.0	.0	29.4	
10+	PCP	.0	.0	.1	.0	.1	.2	.0	.0	.0	.0	.4	
	NO PCP	9.3	11.1	6.4	6.5	9.3	9.7	4.8	3.4	.0	1.6	58.2	
	TOT %	9.3	11.1	6.5	6.6	9.4	9.9	4.8	3.4	.0	1.6	58.6	
TOT OBS													1797
TOT PCT		9.3	20.6	11.9	12.0	14.7	15.9	7.3	5.3	.0	3.0	100.0	

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.0	.0	.1	.0	.0	.1	.0	.2	.7	
	4-10	.3	.4	.1	.1	.1	.2	.1	.1	.0	.0	1.5	
	11-21	.0	.1	.1	.0	.1	.1	.0	.0	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	TOT %	.4	.6	.3	.2	.4	.3	.1	.2	.0	.2	3.0	
1/2<1	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.2	.1	.1	.1	.0	.0	.0	.0	.0	.5	
	11-21	.0	.0	.1	.1	.2	.1	.0	.0	.0	.0	.4	
	22+	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.1	.4	.3	.2	.3	.1	.0	.0	.0	.0	1.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.1	.1	.1	.2	.2	.1	.0	.0	.0	.8	
	11-21	.1	.3	.1	.1	.1	.0	.0	.0	.0	.0	.7	
	22+	.0	.1	.1	.1	.1	.1	.1	.0	.0	.0	.5	
	TOT %	.2	.5	.3	.3	.3	.3	.1	.1	.0	.1	2.1	
2<5	0-3	.1	.1	.1	.1	.0	.0	.0	.0	.0	.3	.8	
	4-10	.3	.8	.5	.5	.2	.2	.2	.1	.0	.0	2.6	
	11-21	.1	.7	.4	.4	.3	.1	.1	.0	.0	.0	2.1	
	22+	.0	.2	.2	.2	.2	.1	.1	.0	.0	.0	1.1	
	TOT %	.5	1.9	1.2	1.2	.7	.4	.4	.2	.0	.3	6.6	
3<10	0-3	.2	.3	.2	.2	.2	.2	.1	.0	.0	.3	1.8	
	4-10	1.4	2.1	1.6	1.4	1.3	1.0	.7	.0	.0	.0	10.1	
	11-21	.7	2.9	1.3	1.6	1.2	1.3	.4	.4	.0	.0	9.9	
	22+	.2	.7	.2	.2	.4	.9	.2	.1	.0	.0	2.9	
	TOT %	2.4	6.0	3.2	3.3	3.0	3.3	1.3	1.2	.0	.3	24.7	
10+	0-3	.3	1.2	.4	.7	.4	.3	.3	.5	.0	1.3	6.2	
	4-10	3.1	4.6	4.5	4.7	3.6	3.4	1.8	1.8	.0	.0	27.8	
	11-21	1.6	3.3	2.0	3.1	4.9	3.3	1.9	1.0	.0	.0	23.3	
	22+	.2	.3	.1	.3	1.2	1.5	.4	.5	.0	.0	4.9	
	TOT %	5.3	9.8	7.3	8.8	10.1	10.9	4.6	3.7	.0	1.3	62.2	
TOT OBS													2916
TOT PCT		9.1	19.9	12.5	13.8	14.8	15.7	6.7	5.5	.0	2.6	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1910-1973
(OVER-ALL) 1855-1973

AREA 0012 BUENOS AIRES
34.51 52.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <3/8 BY HOUR

HR (GMT)	000	100	200	300	400	500	600	700	800	900	1000	2000	3000	4000	5000	6000	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
0000	1.9	2.9	3.9	4.1	5.7	6.6	2.9	.0	.8	.4	29.9	70.1	241							
0600	9.1	.0	1.4	5.0	11.8	5.5	3.6	1.4	.5	1.8	40.0	60.0	220							
1200	2.3	.0	.8	7.4	15.0	6.5	3.4	1.1	.8	.6	38.0	62.0	333							
1800	1.9	.0	1.3	6.6	11.0	6.6	2.5	.0	2.5	.3	32.7	67.3	318							
TOT	46	0	13	68	135	72	35	7	14	8	398	794	1132							
PCT	4.1	.0	1.1	6.0	11.9	6.4	3.1	.6	1.2	.7	35.2	64.8	100.0							

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	3.6	.8	1.1	6.2	27.7	60.7	730
0600	4.2	1.2	2.0	9.5	25.5	57.6	589
1200	2.5	2.0	3.1	5.5	24.2	62.7	946
1800	2.6	1.5	1.9	5.9	21.4	66.7	681
TOT	95	42	62	193	727	1829	2946
PCT	3.2	1.4	2.1	6.6	24.7	62.1	100.0

TABLE 12

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

HR (GMT)	<100 AND 3/8	<1000 AND 5/8	1000+ NH <3/8	TOTAL OBS		
0000	5.1	7.1	16.3	21.4	62.2	196
0600	10.7	13.1	24.3	21.4	54.4	206
1200	2.7	3.9	16.9	26.1	57.0	337
1800	2.6	3.9	18.6	18.3	63.1	306
TOT	49	72	196	230	619	1049
PCT	4.7	6.9	18.6	22.0	59.2	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	.2	.2	.0	.5	1.2	1.4		33	3.8
66/66	.0	.0	.1	.9	1.8	3.7	5.5		161	17.4
68/59	.0	.0	.1	1.2	3.0	6.8	15.1		363	39.2
69/54	.0	.0	.1	1.2	2.4	4.8	12.2		298	31.8
69/49	.0	.0	.0	1.2	1.6	1.6	3.0		69	7.4
68/44	.0	.0	.0	.0	.0	.0	.3		4	.4
TOTAL	0	2	3	32	78	159	333	318	927	100.0
PCT	.0	.2	.3	3.5	8.4	17.2	35.9	34.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

HR	N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.8	1.2	.0	.0	.4	.4	.2	.0	.0		
2.7	4.9	2.4	2.1	1.7	.7	1.4	1.1	.0		
3.2	8.0	6.3	6.1	5.1	4.4	2.3	2.5	.0		1.3
2.0	3.6	4.3	3.3	3.9	6.7	2.3	1.3	.0		.4
.7	.2	.2	.7	2.2	2.3	.3	.4	.0		.0
.0	.0	.0	.0	.0	.1	.1	.0	.0		.2
TOT	10.1	17.9	19.2	14.1	15.2	14.7	6.8	5.6	.0	2.4

TABLE 15

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

HR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	71	66	62	55	47	44	36	54.6	1776
0600	72	66	62	54	47	44	41	56.4	1121
1200	72	68	65	56	48	45	42	56.4	2100
1800	74	69	66	57	48	46	43	57.3	1134
TOT	74	68	64	55	47	45	36	55.7	6217

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	1.4	7.4	17.1	33.8	40.2	84		216	
0600	.0	2.9	5.4	16.1	32.7	42.9	86		205	
1200	.0	3.9	6.4	14.7	37.6	33.2	83		266	
1800	.0	3.3	11.8	21.0	39.1	22.7	81		288	
TOT	0	39	79	162	341	326	84		945	

SEPTEMBER

PERIOD: (PRIMARY) 1910-1973
(OVER-ALL) 1855-1973

AREA 0012 BUENOS AIRES
34.35 52.8W

TABLE 17

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

AIR-SEA TMP DIF	41	45	49	53	57	61	65	69	TOT	W FOG	WO FOG
	44	48	52	56	60	64	68	72			
17/19	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
14/16	.0	.0	.0	.0	.0	.1	.1	.0	2	.0	.2
11/13	.0	.0	.0	.0	.2	.2	.2	.1	17	.1	1.0
9/10	.0	.0	.0	.1	1.2	.6	.1	.0	33	.1	2.0
7/8	.0	.0	.0	1.2	1.0	1.6	.2	.2	69	.2	4.0
6	.0	.0	.1	.7	1.0	.6	.2	.0	44	.2	2.5
5	.0	.0	.8	1.5	1.8	1.4	.1	.0	92	.5	5.2
4	.0	.1	1.2	2.1	3.0	1.2	.1	.0	126	.3	7.3
3	.0	.1	1.2	2.6	3.3	.7	.2	.0	130	.4	7.6
2	.0	.6	1.8	3.7	4.4	1.2	.4	.1	198	.7	11.5
1	.0	.2	2.2	4.3	2.9	.6	.2	.0	173	.7	9.9
0	.1	1.2	2.2	4.4	1.4	.6	.2	.0	163	.9	9.1
-1	.1	.2	2.2	3.5	1.2	.5	.1	.0	123	.4	7.2
-2	.1	1.6	2.6	2.1	.9	.6	.1	.0	129	.2	7.7
-3	.0	.4	1.2	1.0	.9	.3	.1	.0	62	.1	3.8
-4	.0	1.1	1.4	1.2	.7	.4	.2	.0	81	.2	4.7
-5	.0	.4	1.2	1.0	.7	.2	.1	.0	56	.1	3.3
-6	.1	.3	.8	.3	.4	.1	.0	.0	36	.1	2.1
-7/-8	.1	.7	.6	.6	.4	.0	.0	.0	38	.0	2.3
-9/-10	.0	.4	.3	.4	.1	.0	.0	.0	23	.0	1.4
-11/-13	.1	.8	.2	.2	.0	.0	.0	.0	20	.1	1.2
-14/-16	.1	.2	.1	.0	.0	.0	.0	.0	7	.0	.4
TOTAL	10	136	328	419	176	43	7	1623	86	1937	
PCT	.6	8.4	20.2	31.1	25.8	10.8	2.6	100.0	5.3	94.7	

PERIOD: (OVER-ALL) 1943-1973

TABLE 18

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

HGT	N					PCT	NE					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
41	.8	1.1	.0	.0	.0	1.9	1.2	1.9	.0	.0	.0	3.2
1-3	.0	1.5	.4	.0	.0	1.9	.2	3.7	.0	.0	.0	7.6
3-6	.0	1.2	.6	.0	.0	2.3	.0	2.2	2.3	.0	.0	4.7
6-9	.0	.2	.8	.0	.0	1.0	.0	.3	4.1	.3	.0	4.8
9	.0	.0	.4	.1	.0	.6	.0	.3	.3	.6	.0	1.1
10-11	.0	.0	.2	.2	.0	.3	.0	.0	.3	.3	.0	1.0
12	.0	.0	.0	.0	.0	.2	.0	.0	.3	.3	.0	.8
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.3
17-19	.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
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.4	2.8	.3	.0	7.0	1.4	10.1	9.9	2.1	.2	23.7

HGT	E					PCT	SE					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
41	.2	2.1	.0	.0	.0	2.4	.2	.3	.0	.0	.0	.7
1-3	.5	2.7	1.0	.0	.0	4.1	.0	.4	1.7	.0	.0	2.3
3-6	.0	.4	.8	.0	.0	1.2	.0	1.2	.9	.0	.0	2.1
6-9	.0	.5	.8	.2	.0	1.5	.0	.2	1.4	.0	.0	1.6
9	.0	.0	.3	.1	.0	.4	.0	.3	.3	.2	.0	.8
10-11	.0	.0	.2	.1	.0	.3	.0	.0	.3	.2	.0	.3
12	.0	.0	.0	.1	.0	.1	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	5.7	3.2	.8	.0	10.2	.2	2.7	4.8	.7	.0	8.4

PERIOD: (OVER-ALL) 1963-1973

SEPTEMBER
TABLE 18 (CONT)

AREA 0012 BUENOS AIRES
34.35 52.8W

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.3	.2	.0	.0	.0	1.4	.2	1.3	.0	.0	.0	.0	1.3
1-2	.3	1.9	1.7	.0	.0	.0	4.0	.0	2.9	1.4	.0	.0	.0	4.3
3-4	.0	1.4	1.5	.0	.0	.0	2.9	.0	1.8	3.3	.0	.0	.0	4.9
5-6	.0	.4	2.6	.1	.0	.0	3.1	.0	.4	1.4	.2	.0	.0	2.0
7	.0	.0	1.0	.8	.0	.0	1.8	.0	.0	.8	.5	.0	.0	1.3
8-9	.0	.0	.2	.3	.0	.0	.4	.0	.0	.2	.4	.0	.0	.6
10-11	.0	.0	.3	.3	.0	.0	.6	.0	.0	.2	.8	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.0	7.4	1.8	.0	.0	16.4	.2	6.2	7.8	2.4	.1	.0	16.4

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.1	.0	.0	.0	.1	.3	.2	.0	.0	.0	.0	.6	1.3
1-2	.1	1.0	.3	.0	.0	.0	1.7	.2	1.0	.2	.0	.0	.0	2.7	2.7
3-4	.0	.2	1.0	.0	.0	.0	1.2	.0	1.4	1.2	.2	.0	.0	3.8	3.8
5-6	.0	.3	1.2	.0	.0	.0	1.4	.0	.0	.6	.0	.0	.0	2.0	2.0
7	.0	.0	.8	.2	.0	.0	.7	.0	.0	.8	.3	.0	.0	1.9	1.9
8-9	.0	.0	.0	.1	.2	.0	.3	.0	.0	.0	.2	.0	.0	.5	.5
10-11	.0	.0	.0	.7	.2	.0	.9	.0	.0	.0	.8	.0	.0	1.7	1.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.2	.0	.4	.0	.0	.0	.0	.0	.0	.3	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.1	3.4	1.1	.6	.0	7.3	.5	2.6	2.0	.8	.0	.0	6.0	94.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	8.8	9.1	.2	.0	.0	.0	18.3	623
1-2	1.8	17.2	8.7	.0	.0	.0	27.4	
3-4	.0	10.0	11.9	.2	.0	.0	22.0	
5-6	.0	2.2	13.0	.8	.0	.0	16.1	
7	.0	.2	4.2	2.9	.0	.0	7.2	
8-9	.0	.0	1.4	1.9	.2	.0	3.5	
10-11	.0	.0	1.0	2.4	.2	.0	3.6	
12	.0	.0	.0	.8	.2	.0	.8	
13-16	.0	.0	.0	.3	.3	.0	.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.3	.0	.0	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.4	26.7	40.8	9.3	.8	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<1	5.0	13.4	12.7	5.4	1.7	1.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	370	3
1-2	.2	3.1	5.2	6.7	3.8	1.3	1.2	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	197	5
3-4	.0	.1	1.9	4.4	2.7	2.0	1.1	.3	.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	127	7
5-6	.0	.0	.9	1.1	1.4	.8	.4	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	7
7	.0	.0	.4	.3	.7	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	7
8-9	.0	.0	.0	.4	.3	.6	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	188	4
12-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	969	4
TOTAL	4.8	3.8	4.2	3.7	1.1	.8	.4	.3	1.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	188	4
PCT	9.8	17.0	24.5	22.1	11.4	7.1	3.0	1.4	1.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1909-1973
(OVER-ALL) 1859-1973

AREA 0012 BUENOS AIRES
34.45 52.74

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZM PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.9	.9	3.3	.0	.0	.0	.0	7.1	.0	2.0	10.3	.5	.7	.0	79.2
NE	5.7	.7	2.8	.0	.0	.0	.0	9.2	1.4	1.8	10.8	.4	1.2	.0	75.8
E	6.3	.0	4.0	.0	.0	.0	.0	9.6	2.3	.0	5.0	1.0	2.2	.0	79.9
SE	2.9	.5	2.6	.0	.0	.0	.0	6.0	1.0	.5	2.2	.3	1.1	.0	88.9
S	3.7	1.6	.9	.0	.0	.0	.0	6.3	1.5	.4	3.3	.0	.8	.0	87.7
SW	1.5	1.2	1.0	.0	.0	.0	.0	3.2	1.0	1.1	3.2	.0	1.0	.0	88.9
W	1.5	1.5	.8	.0	.0	.0	.0	3.8	.0	.0	8.5	.0	2.1	.0	85.6
NW	3.3	2.4	.8	.0	.0	.0	.0	6.5	1.1	2.4	9.2	.0	.0	.0	80.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.0	15.6	.0	.0	.0	82.2
TOT PCT	3.8	.9	2.2	.0	.0	.0	.0	6.7	1.3	.9	6.8	.3	1.2	.0	83.0
TOT OBS:	1514														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZM PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0603	3.7	.6	2.3	.0	.0	.0	.0	6.0	.9	2.3	4.3	.0	.6	.0	86.5
0609	4.3	1.2	2.2	.0	.0	.0	.0	7.8	.6	2.2	3.6	.0	1.6	.0	82.6
1215	3.9	1.2	2.0	.0	.0	.0	.0	6.9	1.2	.0	8.4	.8	1.2	.0	81.7
1821	3.3	.5	2.3	.0	.0	.0	.0	6.0	2.3	.0	6.5	.5	1.5	.0	81.4
TOT PCT	3.8	.9	2.2	.0	.0	.0	.0	6.7	1.3	1.0	6.9	.3	1.2	.0	82.9
TOT OBS:	1599														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.7	4.3	3.4	.8	.1	.0	9.4	11.7	8.0	9.2	8.8	11.2	11.1	10.2	8.5	7.2	
NE	1.3	7.2	7.9	1.4	.3	.0	18.2	12.4	18.7	20.3	20.2	17.4	15.9	18.8	19.3	17.7	
E	.9	6.8	5.1	1.2	.2	.0	14.3	11.6	13.6	14.7	12.6	14.0	13.7	13.3	14.7	16.7	
SE	1.1	7.6	4.6	1.1	.2	.0	14.4	11.0	13.4	13.8	13.8	15.8	13.7	13.6	13.0	13.6	
S	1.1	6.6	6.0	1.9	.4	.0	16.0	12.8	17.9	16.4	14.2	15.3	14.6	18.0	14.9	19.2	
SW	.7	4.4	4.7	2.2	.8	.3	13.2	16.1	12.9	11.4	13.9	12.1	13.4	13.6	14.9	13.0	
W	.6	2.4	1.3	.6	.5	.0	5.7	13.6	4.7	3.7	3.6	3.2	6.8	7.6	3.7	4.3	
NW	.3	2.7	1.8	.6	.2	.0	5.8	11.9	3.8	4.5	6.8	3.1	7.8	7.0	4.8	3.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.1						3.1	.0	3.1	4.1	4.2	3.6	3.3	1.9	3.9	.7	
TOT OBS	613	2987	2182	809	161	27	6161	12.2	1040	808	648	418	1067	1091	684	409	
TOT PCT	10.0	42.0	35.1	9.9	2.6	.4	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				03	06	09	15	21
N	2.4	4.8	1.7	.3	6	9.4	11.7	8.5	9.8	10.6	8.0
NE	4.1	9.2	4.5	.6	.1	18.2	12.4	19.4	19.1	16.3	18.8
E	3.7	7.3	2.7	.4	.0	14.3	11.6	13.2	13.2	13.3	13.9
SE	4.1	7.3	2.4	.4	.1	14.4	11.0	13.6	14.6	13.6	14.0
S	3.6	7.8	3.7	.9	.1	16.0	12.8	17.2	14.7	13.3	14.9
SW	2.6	5.3	3.4	1.4	.5	13.2	16.1	12.2	13.2	13.5	14.2
W	1.8	2.1	.9	.2	.0	5.7	13.6	4.3	3.4	7.2	3.2
NW	1.8	2.1	1.0	.3	.0	5.8	11.9	4.1	6.1	7.4	3.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1				.0	3.1	.0	3.2	3.9	2.5	2.8
TOT OBS	1677	2891	1223	302	68	6161	12.2	1848	1066	2158	1089
TOT PCT	27.2	46.9	19.9	4.9	1.1	100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1969-1973
(DWD-ALC) 1953-1973

AREA 0012 BUENOS AIRES
34.45 52.70

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (CNT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT PREG	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	3.3	0.1	39.9	37.8	9.6	2.4	0	12.4	100.0	1040
0400Z	3.0	7.0	30.0	37.1	10.4	2.7	0	12.3	100.0	1040
1200Z	2.5	7.0	45.2	31.4	9.7	3.1	0	12.0	100.0	2150
1600Z	2.8	5.0	43.1	35.0	10.2	1.9	0	12.3	100.0	1000
TOT	190	423	2507	2162	609	101	27	12.2		6101
PCT	3.1	6.9	42.0	35.1	9.9	2.0	0	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8-9	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	4.0	1.3	1.4	2.9		4.0
NE	7.5	2.0	3.7	5.7		4.1
E	3.0	2.5	3.7	4.0		4.3
SE	4.1	2.1	2.3	3.5		4.4
S	3.3	2.2	3.1	2.0		3.0
SW	3.0	2.2	4.4	2.3		3.0
W	3.0	0	1.9	0		3.0
NW	2.3	1.0	1.3	1.5		4.2
VAR	0	0	0	0		0
CALM	1.4	0	0	0		3.3
TOT OBS	373	190	212	237	974	4.0
TOT PCT	30.3	15.4	21.0	24.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, MM >4/8) AND OCCURRENCE OF ANY CLOUD BY WIND DIRECTION

WIND DIR	CEILING HEIGHTS (FT, MM >4/8)											TOTAL ANY CLOUD OBS	
	0-2	3-4	5-7	8-9	10-12	13-15	16-20	21-25	26-30	31-40	41-50		
N	0.7	0	0.2	0	0.7	0	0	0.2	0.1	0.2	0.1	0.8	0.1
NE	1.2	0.3	0.5	1.4	1.2	1.2	0.5	0.5	0.5	0.5	0.5	0.5	12.4
E	0.9	0.1	0.4	1.5	1.4	0.8	0.9	0.1	0.2	0.2	0.2	0.2	19.0
SE	0.1	0	0.1	0	1.3	1.1	0.7	0.1	0.0	0.0	0.0	0.0	7.9
S	0.2	0.1	0.1	0.3	1.7	0.6	0.7	0.1	0.1	0.1	0.1	0.1	8.3
SW	0.4	0	0	0.7	1.0	1.4	0.6	0.1	0.2	0.1	0.2	0.1	9.4
W	0.1	0	0	0.3	0.9	0.9	0.1	0.1	0.1	0.1	0.1	0.1	4.2
NW	0.4	0	0	0.5	0.8	0.7	0.2	0.0	0.0	0.0	0.0	0.0	3.7
VAR	0	0	0	0	0	0	0	0	0	0	0	0	0
CALM	0.4	0	0	0.2	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.2
TOT OBS	44	4	13	37	104	74	31	8	7	4	4	4	628
TOT PCT	4.5	0.4	1.3	5.9	10.7	7.6	3.2	0.8	0.7	0.4	0.4	0.4	64.5

TABLE 7

CUMULATIVE PCT PREG OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (MM >4/8) AND VSBY (MM)

CEILING (FEET)	VSBY (MM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>9900	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>9000	1.4	1.9	1.9	1.9	1.9	1.9	1.9	1.9
>8000	3.3	4.4	4.7	5.0	5.1	5.1	5.1	5.1
>7000	8.1	11.1	12.1	12.3	12.6	12.6	12.4	12.6
>6000	12.9	19.7	22.2	23.0	23.3	23.3	23.3	23.3
>5000	18.1	24.4	27.6	28.4	29.0	29.1	29.1	29.1
>4000	18.2	23.2	28.3	29.7	30.3	30.4	30.4	30.4
>3000	18.2	23.4	28.9	30.1	30.7	30.8	30.8	30.8
>2000	18.2	23.6	29.9	31.6	32.3	33.4	34.7	35.1
TOTAL	162	233	298	313	324	333	346	350

TOTAL NUMBER OF OBS: 997 PCT PREG MM <5/8: 64.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL OBS
	24.7	14.1	9.6	8.2	6.6	4.9	3.7	6.3	16.6	3.8	1070

PERIOD: (PRIMARY) 1969-1973
(OVER-ALL) 1955-1973

OCTOBER

AREA 0012 BUENOS AIRES
34.45 52.70

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.2	.0	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.7	1.0	.3	.0	.3	.3	.4	.5	.0	.4	3.9	
	TOT %	.7	1.1	.6	.0	.3	.3	.4	.5	.0	.4	4.2	
1/2<1	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.1	.2	.0	.0	.2	.1	.1	.0	.1	.8	
	TOT %	.0	.1	.3	.1	.0	.2	.1	.1	.0	.1	1.1	
1<2	PCP	.2	.2	.1	.1	.1	.1	.1	.0	.0	.0	.9	
	NO PCP	.0	.2	.0	.0	.0	.1	.1	.0	.0	.0	.4	
	TOT %	.2	.4	.1	.1	.1	.1	.2	.0	.0	.0	1.3	
2<5	PCP	.1	.4	.6	.1	.2	.0	.1	.0	.0	.0	1.7	
	NO PCP	.3	.8	.6	.3	.4	.3	.3	.4	.0	.0	3.4	
	TOT %	.3	1.2	1.2	.5	.6	.3	.3	.4	.0	.0	5.0	
5<10	PCP	.3	.9	.4	.2	.5	.2	.1	.2	.0	.0	2.8	
	NO PCP	1.8	3.2	4.6	3.6	3.6	2.8	1.7	.7	.0	.3	24.3	
	TOT %	2.1	4.0	5.0	3.9	4.2	3.0	1.8	1.0	.0	.3	27.2	
10+	PCP	.0	.2	.1	.1	.0	.0	.0	.1	.0	.0	.7	
	NO PCP	5.7	9.7	9.1	8.2	8.8	9.2	3.7	4.0	.0	2.2	50.5	
	TOT %	5.8	9.9	9.2	8.3	8.8	9.3	3.7	4.1	.0	2.2	51.2	
TOT OBS												1512	
TOT PCT		9.1	18.7	16.4	12.9	14.0	13.3	6.4	6.1	.0	3.0	100.0	

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.1	.0	.1	.1	.1	.0	.0	.3	.8	
	4-10	.3	.8	.1	.2	.2	.2	.2	.2	.0	.0	1.9	
	11-21	.2	.8	.1	.0	.2	.0	.0	.1	.0	.0	.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.6	.9	.4	.2	.3	.3	.3	.3	.0	.0	.3	3.8
1/2<1	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2	
	11-21	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.2	.2	.2	.0	.2	.0	.0	.0	.0	1.0	
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.0	.1	.0	.1	.1	.1	.0	.0	.4	
	11-21	.1	.4	.3	.1	.1	.1	.1	.0	.0	.0	1.0	
	22+	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.2	.5	.4	.2	.2	.1	.1	.1	.0	.0	1.9	
2<5	0-3	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.3	
	4-10	.2	.3	.2	.3	.2	.1	.1	.2	.0	.0	1.6	
	11-21	.2	.7	.0	.2	.3	.1	.1	.1	.0	.0	2.2	
	22+	.2	.4	.2	.1	.1	.1	.1	.1	.0	.0	1.3	
	TOT %	.6	1.5	1.1	.7	.7	.4	.3	.3	.0	.0	5.4	
5<10	0-3	.2	.3	.1	.2	.1	.0	.1	.0	.0	.4	1.3	
	4-10	.7	1.8	1.4	1.7	1.1	.8	.3	.4	.0	.0	8.6	
	11-21	.9	3.1	2.1	1.2	1.9	1.2	.3	.4	.0	.0	11.0	
	22+	.1	.3	.6	.4	.4	.8	.6	.1	.0	.0	3.6	
	TOT %	2.1	5.7	4.1	3.6	3.9	2.8	1.4	.9	.0	.4	24.4	
10+	0-3	.3	1.2	.3	.3	.9	.3	.4	.3	.0	2.1	7.0	
	4-10	3.0	6.9	4.7	4.8	4.4	3.3	1.3	1.4	.0	.0	26.9	
	11-21	2.0	3.0	3.2	3.2	4.0	4.2	1.0	1.2	.0	.0	23.8	
	22+	.2	.3	.3	.3	1.4	1.8	.6	.4	.0	.0	5.7	
	TOT %	5.7	10.3	8.9	9.0	10.8	9.3	3.4	3.3	.0	2.1	63.4	
TOT OBS												2427	
TOT PCT		9.1	19.3	19.1	13.8	15.3	13.3	3.6	3.2	.0	3.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1909-1973
(OVER-ALL) 1855-1973

AREA 0012 BUREAU AIRS
34.45 52.7M

TABLE 10

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

HOURL (GMT)	000	100	200	300	400	500	600	700	800	900	1000	1100	1200	TOTAL	MH <5/8 ANY HGT	TOTAL OBS
0000	4.1	.9	.0	4.5	10.9	5.0	2.7	.0	.9	.0	29.0	71.0	221			
0400	4.7	.5	1.9	4.2	9.9	7.1	5.7	.5	.0	.9	34.9	65.1	212			
1200	4.1	.0	1.9	7.0	11.4	8.6	1.3	1.3	1.3	.6	37.5	62.5	315			
1800	4.2	.4	1.1	6.0	9.1	7.7	9.5	1.1	.4	.4	39.7	60.3	285			
TOT	4.4	.4	1.3	5.8	10.4	7.3	3.2	.6	.7	.4	39.2	68.1	1033			
PCT	4.3	.4	1.3	5.6	10.4	7.3	3.1	.6	.7	.4	39.1	67.9	100.0			

TABLE 11

PERCENT FREQUENCY VSBY (MH) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000	2.5	1.0	1.9	4.7	30.1	63.9	729
0400	3.3	1.0	2.9	6.7	34.1	62.1	522
1200	4.3	1.3	1.6	6.2	29.8	62.8	639
1800	5.1	1.0	1.9	5.1	24.3	62.4	586
TOT	10.1	2.9	3.3	13.1	69.9	100.0	2677
PCT	3.8	1.1	2.0	5.6	24.7	62.9	100.0

TABLE 12

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

HOURL (GMT)	<150 VSBY	<1000 CEILING	<1000 CEILING	1000+ AND/OR	MH <5/8 AND 5+	TOTAL OBS
0000	4.3	3.8	14.4	17.8	67.8	208
0400	4.3	4.8	17.4	19.0	62.8	207
1200	4.3	6.9	19.0	21.6	59.3	305
1800	4.3	6.9	18.1	18.0	63.2	277
TOT	4.3	6.6	17.4	19.6	62.7	997
PCT	4.3	6.6	17.8	19.7	62.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.0	.2	.0	.0	2	.2
70/74	.0	.0	.1	.1	.7	.8	.8	.3	25	2.7
65/69	.0	.0	.4	1.3	2.7	5.7	4.8	.8	142	14.9
60/64	.0	.0	.8	4.0	6.9	11.3	11.1	.8	317	33.3
55/59	.0	.0	.4	2.8	6.5	14.1	9.1	.8	315	33.3
50/54	.0	.0	.4	2.8	3.1	5.5	2.7	.8	183	19.2
45/49	.0	.0	.0	.4	.6	.7	.3	.8	23	2.1
TOTAL	.0	.0	.3	2.9	11.9	17.9	34.3	27.1	982	100.0
PCT	.0	.0	.3	2.4	11.9	18.8	38.1	28.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
70/74	.7	.8	.3	.1	.0	.2	.2	.3	.0	.1
65/69	2.8	4.8	2.4	1.9	.0	.8	.8	1.2	.0	.2
60/64	3.8	6.1	6.7	2.9	2.1	3.1	1.9	2.0	.0	.7
55/59	.0	4.0	6.3	2.4	2.7	2.7	2.1	2.0	.0	.8
50/54	.7	1.1	.8	2.1	2.9	2.7	.9	.4	.0	.1
45/49	.0	.0	.2	.4	.9	.6	.0	.0	.0	.0
TOTAL	9.0	19.8	16.3	12.5	14.2	14.1	5.9	5.9	.0	1.7

TABLE 15

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

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	79	69	64	58	49	44	37	57.9	1840
0400	72	67	63	57	48	43	45	57.1	1072
1200	79	72	68	60	51	47	45	60.0	2092
1800	78	72	70	61	52	48	45	60.9	1048
TOT	79	71	68	59	50	46	37	59.0	6032

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	1.2	8.5	20.6	38.9	30.8	84	247		
0400	.0	1.8	8.4	14.4	39.1	38.6	83	202		
1200	.0	3.7	11.7	19.0	28.0	27.7	82	300		
1800	.0	4.3	18.3	20.9	27.8	19.7	80	230		
TOT	0	27	115	185	376	276	63	979		

OCTOBER

PERIOD: (PRIMARY) 1909-1973
(OVER-ALL) 1855-1973

AREA 0012 BUENOS AIRES
34.45 52.7W

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	37	41	45	49	53	57	61	65	69	73	77	TOT	W	NO
	40	44	48	52	56	60	64	68	72	76	80		FOG	FOG
14/16	.0	.0	.0	.0	.0	.0	.3	.1	.1	.0	.0	6	.0	.4
11/13	.0	.0	.0	.0	.1	.1	.2	.2	.4	.0	.1	15	.1	.9
9/10	.0	.0	.0	.0	.1	.4	.6	.5	.3	.1	.0	27	.1	1.9
7/8	.0	.0	.0	.1	.1	.1	1.3	1.1	.3	.1	.0	42	.1	2.9
6	.0	.0	.0	.0	.2	.1	1.4	.7	.7	.0	.0	41	.5	2.5
5	.0	.0	.0	.0	.4	.3	.9	1.0	.4	.1	.0	43	.3	2.8
4	.0	.0	.1	.1	.7	1.7	1.7	1.5	.3	.1	.0	85	.4	5.8
3	.0	.0	.0	.3	.7	1.7	2.7	.9	.1	.0	.0	89	.6	5.9
2	.0	.0	.0	.4	1.4	2.8	2.5	1.4	.3	.0	.0	118	.2	8.4
1	.0	.0	.1	.1	1.8	3.6	2.8	1.3	.2	.0	.0	136	.7	9.2
0	.0	.0	.1	.7	3.3	5.2	2.8	1.1	.2	.0	.0	189	.9	12.6
-1	.0	.0	.1	.4	2.7	3.1	2.6	.9	.1	.0	.0	138	.7	9.3
-2	.0	.0	.1	1.6	2.7	3.1	1.7	.3	.1	.0	.0	132	.9	8.7
-3	.0	.0	.0	.8	2.3	2.4	.9	.4	.0	.0	.0	89	.9	5.5
-4	.0	.0	.3	.9	1.0	1.0	.9	.0	.0	.0	.0	38	.2	4.0
-5	.0	.0	.4	1.0	1.2	1.2	.6	.0	.0	.0	.0	61	.1	4.3
-6	.0	.0	.0	1.0	.9	.9	.1	.0	.0	.0	.0	34	.1	2.3
-7/-8	.0	.1	.2	.9	1.2	.7	.1	.0	.0	.0	.0	44	.2	3.0
-9/-10	.0	.0	.1	.2	.9	.3	.0	.0	.0	.0	.0	17	.0	1.2
-11/-13	.0	.1	.1	.2	.4	.1	.0	.0	.0	.0	.0	11	.1	.7
-14/-16	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	3	.0	.2
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	24	121	303	384	324	197	6	6	2	1378	100	1275	
PCT	.1	1.7	8.8	22.2	28.1	23.6	11.4	3.4	.4	.1	100.0	7.3	92.7	

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.4	.4	.0	.0	.0	.0	.8	.9	1.1	.0	.0	.0	.0	2.0
1-2	.0	2.0	1.0	.0	.0	.0	3.0	.0	2.3	1.4	.0	.0	.0	4.9
3-4	.0	.7	1.3	.0	.0	.0	2.3	.0	1.1	2.3	.5	.0	.0	7.1
5-6	.0	.2	.4	.2	.0	.0	.8	.0	.4	2.6	.7	.0	.0	3.7
7	.0	.0	.2	.2	.0	.0	.4	.0	.0	1.2	.9	.0	.0	2.1
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.7	.4	.0	.0	1.1
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
12	.0	.1	.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
49-66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
67-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.4	3.4	.7	.0	.0	7.8	.9	6.1	11.4	2.5	.0	.0	20.9

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.6	1.3	.0	.0	.0	.0	2.1	.3	1.1	.0	.0	.0	.0	1.4
1-2	.0	2.0	2.1	.0	.0	.0	4.0	.4	2.7	1.1	.0	.0	.0	4.2
3-4	.0	1.1	2.9	.2	.0	.0	4.2	.0	.3	1.9	.1	.0	.0	2.4
5-6	.0	.0	1.8	.2	.0	.0	2.0	.0	.8	1.3	.7	.0	.0	3.1
7	.0	.0	.4	.4	.0	.0	.8	.0	.0	.4	.2	.0	.0	.6
8-9	.0	.0	.4	.4	.0	.0	.7	.0	.0	.2	.3	.0	.0	.5
10-11	.0	.0	.4	.4	.2	.0	.6	.0	.0	.0	.0	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.2	.0	.4	.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
49-66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
67-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.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	4.6	7.3	1.7	.4	.0	14.6	.7	3.1	3.2	1.2	.2	.0	12.5

PERIOD: (OVER-ALL) 1963-1973

OCTOBER

AREA 0012 BUENOS AIRES
34.45 52.7M

TABLE 18 (CONT)

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.8	.9	.0	.0	.0	.0	1.5	.5	.8	.0	.0	.0	.0	1.1
1-2	.0	1.9	.5	.0	.0	.0	2.4	.0	1.8	.3	.0	.0	.0	2.1
3-4	.0	1.0	1.9	.0	.0	.0	2.9	.0	1.5	1.8	.0	.0	.0	3.3
5-6	.0	.2	1.3	.9	.0	.0	2.4	.0	.0	1.2	.2	.0	.0	1.4
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	1.8	.8	.0	.0	2.6
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.2	.0	.7	.2	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.0	.6
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	.2	.0	.0	.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	.8	4.1	4.3	1.1	.0	.0	10.1	.3	4.3	3.7	2.1	.4	.0	12.8

HGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.8	1.6	.0	.0	.0	.0	2.2	.4	1.6	.0	.0	.0	.0	2.2
1-2	.0	1.3	.2	.0	.0	.0	1.7	.0	.8	.0	.0	.0	.0	1.8
3-4	.0	.4	1.1	.8	.0	.0	2.3	.0	.7	1.0	.2	.0	.0	1.9
5-6	.0	.2	.3	.0	.0	.0	.7	.0	.1	.2	.0	.0	.0	.3
7	.0	.0	.4	.4	.0	.0	.8	.0	.0	.0	.2	.9	.0	1.1
8-9	.0	.0	.6	.2	.0	.0	.2	.0	.0	.1	.0	.0	.0	.3
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.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	3.6	1.1	2.1	.6	.0	9.1	.8	3.1	1.2	.9	.0	.0	5.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
01	11.1	9.0	.0	.0	.0	.0	20.1	585
1-2	.4	16.0	6.6	.0	.0	.0	23.0	
3-4	.0	7.0	17.3	2.1	.0	.0	26.4	
5-6	.0	1.8	9.4	2.9	.0	.0	14.2	
7	.0	.0	4.3	3.1	.0	.0	7.4	
8-9	.0	.2	1.4	2.1	.2	.0	3.9	
10-11	.0	.0	.2	1.6	.2	.0	2.1	
12	.0	.0	.2	.2	.2	.0	1.6	
13-16	.0	.0	.4	.4	.8	.0	1.6	
17-19	.0	.0	.8	.0	.0	.0	.8	
20-22	.0	.0	.2	.0	.2	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.5	34.1	40.3	12.3	1.6	.0	100.0	487

PERIOD: (OVER-ALL) 1969-1973

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-6	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
46	4.1	9.3	12.0	4.7	3.5	1.5	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	313	3
6-7	.0	.8	7.6	9.8	3.7	1.5	1.8	.6	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	232	6
8-9	.0	.7	1.3	4.4	1.9	.7	.1	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	127	6
10-11	.0	.6	.5	.7	.8	.9	.3	.1	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	37	7
12-13	.0	.0	.5	.1	.2	.2	.1	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	14	8
313	.0	.0	.0	.1	.2	.2	.3	.1	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	14	12
INDET	4.4	2.7	3.6	.8	1.1	.0	.1	1.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	117	3
TOTAL	73	124	226	179	141	33	36	12	21	8	2	0	1	0	0	0	0	0	880	5
PCT	8.5	14.1	25.7	20.3	16.0	6.3	4.1	1.4	2.4	.9	.2	.0	.1	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1909-1975
(OVER-ALL) 1860-1975

AREA 0012 BUENOS AIRES
34.41 52.74

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRIZ	FZFG PCPN	SNOW	OTHER FZRN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWC DUST	NO SIG WEA
N	2.6	1.3	.3	.0	.0	.0	.0	4.1	.0	1.1	6.2	.0	2.6	.0	86.1
NE	4.1	1.0	.3	.0	.0	.0	.0	3.6	1.1	1.3	3.7	.0	2.6	.0	86.4
E	4.1	.4	1.3	.0	.0	.0	.0	3.6	.0	.7	3.1	.0	2.3	.0	88.1
SE	1.3	1.2	.6	.0	.0	.0	.0	3.2	.8	1.2	.2	.0	1.8	.0	93.2
S	2.6	1.7	.6	.0	.0	.0	.0	4.3	3.2	.9	1.9	.4	.4	.0	88.9
SW	.3	2.2	.8	.0	.0	.0	.0	3.4	2.7	.8	1.3	.0	.0	.0	91.9
W	3.6	.0	1.2	.0	.0	.0	.0	6.6	4.0	3.2	6.4	.0	.0	.0	81.1
NW	1.7	.0	1.1	.6	.0	.0	.0	2.9	1.1	.0	3.3	.0	.9	.0	89.7
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	10.3	.0	3.4	.0	86.2
TOT PCT	2.8	1.1	.7	.0	.0	.0	.0	4.3	1.3	1.1	3.2	.1	1.7	.0	88.3
TOT OBS:	1979														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRIZ	FZFG PCPN	SNOW	OTHER FZRN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWC DUST	NO SIG WEA
0800Z	4.0	.3	.3	.0	.0	.0	.0	3.1	1.9	2.1	2.1	.0	2.1	.0	87.2
0810Z	3.0	2.1	.9	.0	.0	.0	.0	3.9	.9	2.4	3.0	.3	.9	.0	87.2
1215Z	2.3	1.4	.6	.0	.0	.0	.0	3.9	1.2	.0	3.9	.0	1.2	.0	89.7
1621Z	2.9	.2	.7	.0	.0	.0	.0	3.8	1.7	.2	3.4	.0	2.6	.0	88.3
TOT PCT	3.0	1.1	.7	.0	.0	.0	.0	4.6	1.4	1.1	3.2	.1	1.7	.0	88.3
TOT OBS:	1614														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT PRG	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.7	3.6	4.2	.7	.1	.0	11.3	11.2	6.9	10.7	10.4	15.3	14.7	12.9	9.3	11.2
NE	1.1	9.4	9.9	1.7	.2	.0	22.4	12.3	24.1	23.1	23.8	21.9	20.6	19.3	22.9	20.7
E	1.1	6.8	4.7	.7	.0	.0	13.3	10.6	17.0	13.3	12.7	13.6	10.9	11.3	13.3	10.4
SE	.7	6.7	3.0	1.1	.2	.0	13.8	11.6	13.3	13.0	13.4	13.6	14.8	11.3	12.3	14.2
S	.9	3.6	6.0	1.9	.4	.0	14.9	13.3	16.4	16.8	14.6	13.9	13.3	12.8	17.4	14.0
SW	.4	3.2	4.0	1.9	.6	.1	10.4	13.6	10.7	8.8	9.1	7.6	9.4	11.8	13.2	11.6
W	.7	2.0	1.4	.8	.2	.0	3.1	13.2	3.3	2.9	3.6	3.9	3.1	8.9	4.7	4.4
NW	.6	3.1	2.1	.6	.1	.0	6.9	11.2	3.8	3.3	3.9	6.9	8.9	8.6	3.2	6.1
VAR	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3	.0	.0	.0	.0	.0	2.3	.0	2.0	1.8	3.3	3.2	2.6	2.6	1.7	1.4
TOT OBS	339	2634	2319	387	112	14	4206	12.1	1033	777	664	432	1019	1146	711	422
TOT PCT	8.7	42.4	37.4	9.3	1.8	.1	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT PRG	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	3.1	6.0	1.9	.3	.0	11.3	11.2	8.6	12.3	13.8	10.0			
NE	4.6	12.0	3.2	.3	.1	22.4	12.3	24.3	23.8	20.0	22.1			
E	3.8	7.4	1.9	.2	.0	13.3	10.6	13.3	13.0	11.1	14.4			
SE	3.7	7.0	2.6	.3	.0	13.8	11.6	13.3	13.4	13.0	13.0			
S	3.2	6.8	3.9	.9	.1	14.9	13.3	10.6	14.2	13.1	16.1			
SW	2.1	3.8	3.0	1.2	.3	10.4	13.6	9.9	8.3	10.7	12.6			
W	1.7	1.9	.9	.6	.1	3.1	13.2	3.2	4.9	7.1	4.6			
NW	1.9	3.2	1.0	.3	.0	6.9	11.2	4.3	6.3	8.7	3.3			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	2.3	.0	.0	.0	.0	2.3	.0	1.9	3.3	2.6	1.6			
TOT OBS	1630	2980	1271	268	49	6206	12.1	1812	1096	2163	1133			
TOT PCT	26.4	48.0	20.3	4.3	.8	100.0		100.0	100.0	100.0	100.0			

NOVEMBER

PERIOD: (PRIMARY) 1969-1975
(COVER-ALL) 1860-1975

AREA 0012 BUENOS AIRES
34.45 52.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GPT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
0000Z	1.9	0.0	41.8	39.3	8.9	1.8	-2	12.2	100.0	1812
0600Z	3.3	5.3	41.3	39.3	8.4	2.0	-2	12.6	100.0	1096
1200Z	2.6	7.0	43.0	34.8	10.3	2.7	-4	12.1	100.0	2163
1800Z	1.8	8.8	43.4	37.2	9.8	1.0	-2	11.9	100.0	1133
TOT	145	394	2834	2319	587	112	15	12.1		8206
PCT	2.3	6.3	42.4	37.4	9.3	1.8	-2	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	10.9	2.8	4.3	4.0		3.4
E	7.3	2.0	2.3	4.3		3.9
SE	3.9	2.9	4.3	2.4		3.9
S	6.3	2.0	4.9	3.6		4.1
SW	3.9	2.1	3.3	1.8		4.1
W	1.8	.3	.4	.8		3.4
NW	2.2	.9	.4	.8		3.0
VAR	.0	.0	.0	.0		.0
CALM	1.4	.3	.1	.4		2.5
TOT OBS	444	149	217	203	1013	3.7
TOT PCT	43.8	14.7	21.4	20.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <3/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <3/8 ANY HGT	TOTAL OBS
N	.2	.0	.2	.2	.5	.2	.0	.0	.1	.0	6.4	
NE	.0	.0	.1	.6	2.3	1.1	.5	.0	.3	.3	16.3	
E	.5	.0	.1	.4	1.3	1.1	1.0	.2	.2	.3	11.7	
SE	.0	.0	.0	.3	2.0	1.0	.0	.2	.1	.1	11.1	
S	.2	.0	.0	1.4	2.0	1.8	.7	.2	.0	.0	10.6	
SW	.1	.0	.2	.9	1.3	.9	.3	.0	.0	.1	7.3	
W	.3	.0	.1	.1	.3	.0	.1	.0	.2	.0	2.4	
NW	.0	.0	.2	.1	.2	.0	.2	.0	.1	.1	3.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.1	.0	.0	.1	.0	.0	1.8	
TOT OBS	14	0	9	42	103	64	38	7	11	9	718	1013
TOT PCT	1.4	.0	.9	4.1	10.2	6.3	3.8	.7	1.1	.9	70.7	100.0

TABLE 7

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

CEILING (PFT)	VSBY (NH)							
	>10	>3	>2	>1	>1/2	>1/4	>30YD	>0
>8000	1.3	1.9	1.9	1.9	1.9	1.9	2.0	2.0
>5000	1.9	2.6	2.7	2.8	2.8	2.8	2.9	2.9
>3000	4.3	6.2	6.6	6.7	6.7	6.8	6.9	6.9
>2000	6.3	11.0	12.3	12.7	12.8	12.9	13.1	13.1
>1000	14.3	19.8	21.8	22.3	22.3	22.8	23.0	23.0
>800	16.8	23.7	26.0	26.7	26.9	27.0	27.2	27.2
>600	17.2	24.3	26.9	27.6	27.6	27.9	28.1	28.1
>400	17.2	24.3	26.9	27.6	27.6	27.9	28.1	28.1
>200	17.3	24.9	27.7	28.3	28.7	28.9	29.2	29.4
>0	17.3	24.9	27.7	28.3	28.7	28.9	29.2	29.4
TOTAL	178	256	285	294	296	298	301	303

TOTAL NUMBER OF OBS: 1030

PCT FREQ NH <3/8: 70.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
29.2	16.6	11.7	9.9	4.8	4.6	6.0	6.1	14.0	1.1	1145

PERIOD: (PRIMARY) 1909-1975
(OVER-ALL) 1860-1975

NOVEMBER

AREA 0012 BUENOS AIRES
34.4S 52.7W

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.2	.1	.1	.0	.1	.1	.1	.2	.0	.1	.9	
	TOT %	.2	.1	.1	.0	.2	.1	.1	.2	.0	.1	1.0	
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.1	.2	.0	.1	.1	.0	.0	.0	.0	.0	.4	
	TOT %	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.6	
1<2	PCP	.1	.1	.2	.0	.0	.0	.1	.0	.0	.0	.5	
	NO PCP	.3	.2	.3	.1	.1	.0	.0	.1	.0	.0	1.0	
	TOT %	.4	.3	.5	.1	.1	.0	.1	.1	.0	.0	1.5	
2<5	PCP	.0	.4	.3	.3	.1	.0	.1	.0	.0	.0	1.1	
	NO PCP	.3	1.0	.4	.6	.6	.3	.3	.1	.0	.1	3.5	
	TOT %	.3	1.4	.7	.9	.7	.4	.4	.1	.0	.1	4.6	
5<10	PCP	.2	.7	.2	.1	.2	.2	.0	.1	.0	.0	1.8	
	NO PCP	2.7	8.2	4.3	3.6	3.7	1.9	.8	1.1	.0	.3	24.8	
	TOT %	2.9	8.9	4.7	3.7	3.9	2.0	.9	1.3	.0	.3	26.6	
10+	PCP	.1	.2	.1	.1	.2	.1	.1	.0	.0	.0	.8	
	NO PCP	3.9	14.8	10.1	9.2	9.8	7.5	2.3	3.9	.0	1.4	64.9	
	TOT %	3.9	14.8	10.2	9.3	10.0	7.7	2.6	3.9	.0	1.4	65.8	
TOT OBS													1977
TOT PCT													9.8 23.6 16.3 13.8 15.1 10.1 3.9 5.5 .0 1.8 100.0

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	4-10	.1	.0	.0	.0	.1	.0	.1	.0	.0	.0	.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.8
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.2	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.5
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.0	.1	.1	.0	.0	.1	.0	.0	.5	
	11-21	.2	.3	.3	.1	.0	.1	.1	.0	.0	.0	1.0	
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.4	.4	.4	.1	.1	.1	.1	.1	.0	.0	1.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.3	.7	.4	.2	.2	.1	.1	.1	.0	.0	2.1	
	11-21	.1	.9	.3	.3	.4	.1	.1	.0	.0	.0	2.4	
	22+	.0	.1	.1	.0	.0	.2	.2	.0	.0	.0	.6	
	TOT %	.5	1.7	.5	.6	.6	.5	.4	.1	.0	.1	3.4	
5<10	0-3	.2	.3	.3	.1	.1	.1	.2	.1	.0	.2	1.6	
	4-10	1.3	2.4	1.4	1.3	1.8	.9	.3	.4	.0	.0	8.5	
	11-21	.8	2.8	1.4	1.3	1.7	.7	.1	.3	.0	.0	8.9	
	22+	.1	.2	.2	.4	.3	.6	.4	.2	.0	.0	2.4	
	TOT %	2.3	5.5	3.5	3.1	3.0	2.0	.9	.9	.0	.2	21.4	
10+	0-3	.4	.7	.3	.3	.4	.2	.2	.2	.0	1.3	4.4	
	4-10	4.3	7.7	3.5	3.1	4.7	2.8	1.4	2.3	.0	.0	22.8	
	11-21	2.3	8.9	3.7	3.7	3.1	3.5	.8	1.5	.0	.0	27.6	
	22+	.1	.3	.3	.5	.9	1.5	.3	.1	.0	.0	4.4	
	TOT %	7.1	15.8	10.2	9.8	11.1	8.0	2.7	4.1	.0	1.3	70.1	
TOT OBS													2815
TOT PCT													10.8 23.7 13.0 13.8 13.1 10.7 4.2 5.4 .0 1.6 100.0

NOVEMBER

PERIOD: (PRIMARY) 1909-1975
(OVER-ALL) 1860-1975

AREA 0012 BUENOS AIRES
34.45 52.7W

TABLE 10

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

HOUR (GMT)	000	100	200	300	400	500	600	700	800	900	1000	1500	2000	2500	3000	3500	4000	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000Z	3.1	.0	.0	2.6	8.3	3.2	2.6	.9	.4	.9	24.0	76.0	229							
0600Z	.5	.0	.0	9.5	8.2	3.0	3.5	.5	.5	1.4	26.2	73.2	220							
1200Z	1.6	.0	1.3	3.8	9.4	6.3	4.4	.9	.9	.6	29.2	70.8	319							
1800Z	.3	.0	1.6	4.1	11.4	6.6	3.2	.9	1.9	.9	30.9	69.1	317							
TOT	14	0	9	43	103	64	42	9	11	10	305	780	1085							
PCT	1.3	.0	.8	4.0	9.5	5.9	3.9	.8	1.0	.9	29.1	71.9	100.0							

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
0000Z	.7	.3	1.4	5.1	24.3	68.2	727
0600Z	.6	.6	1.5	6.8	24.3	66.3	331
1200Z	1.3	.6	2.3	4.7	18.9	72.0	793
1800Z	.2	.7	1.8	5.8	19.3	72.3	602
TOT	21	14	47	143	372	1854	2693
PCT	.8	.5	1.8	5.3	21.6	69.9	100.0

TABLE 12

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

HOUR (GMT)	<180 <300YD	<600 <1	<1000 <3	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000Z	3.2	3.7	11.9	16.1	72.0	219
0600Z	.5	1.9	14.2	19.3	66.3	212
1200Z	1.7	4.0	12.4	20.7	66.9	299
1800Z	.3	2.0	12.3	21.9	63.8	301
TOT	14	30	130	204	696	1030
PCT	1.4	2.9	12.6	19.8	67.6	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
60/84	.0	.0	.0	.1	.0	.0	.0	.0	2	.2
75/79	.0	.0	.1	.0	.4	.5	.1	.0	11	1.0
70/74	.0	.0	.0	1.2	1.3	3.3	3.4	1.4	107	9.9
65/69	.0	.0	.3	1.2	2.9	7.0	9.4	9.9	332	30.7
60/64	.0	.0	.1	1.4	3.7	6.4	11.0	13.4	433	40.0
55/59	.0	.0	.1	1.2	2.6	3.6	3.7	3.0	153	14.1
50/54	.0	.0	.0	.1	.6	.8	1.8	.3	39	3.6
45/49	.0	.0	.0	.0	.2	.2	.2	.0	6	.6
TOTAL	0	0	4	48	149	238	320	302	1083	100.0
PCT	.0	.0	.4	4.4	13.8	23.8	29.5	27.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
75	.2	.3	.1	.0	.3	.4	.0	.0	.0	.1
70	1.0	2.9	1.3	1.2	1.0	.9	.4	.7	.0	.3
65	3.4	9.0	3.5	3.4	3.3	2.4	1.6	1.6	.0	.5
60	3.8	10.4	6.4	6.6	5.4	4.1	1.4	1.3	.0	.7
55	.9	1.5	1.8	1.3	3.9	3.3	.4	.6	.0	.3
50	.2	.2	.2	.4	1.3	.7	.1	.0	.0	.0
45	.0	.1	.0	.1	.3	.0	.0	.0	.0	.0
TOTAL	9.2	24.3	15.3	13.3	15.8	11.6	3.9	4.3	.0	1.8

TABLE 15

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

HOUR (GMT)	MAX	90%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	80	73	70	63	53	50	45	62.4	1786
0600Z	77	70	68	62	53	49	43	61.3	1084
1200Z	88	77	75	65	56	52	48	64.7	2084
1800Z	89	78	74	65	56	52	50	63.6	1081
TOT	89	76	72	64	54	50	43	63.6	6033

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	2.6	11.1	23.6	31.3	29.3	6.2	0.2	270	
0600Z	.0	3.2	10.4	18.9	26.6	41.0	8.4	0.4	222	
1200Z	.0	4.6	16.4	21.0	32.4	25.6	9.0	0.0	324	
1800Z	.0	9.1	15.8	29.8	23.6	19.6	7.7	0.3	263	
TOT	0	33	132	264	322	303	81	1101		

NOVEMBER

PERIOD: (PRIMARY) 1909-1973
(OVER-ALL) 1860-1973

AREA 0012 BUENOS AIRES
34.43 92.7W

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 DIP	41	43	49	53	57	61	65	69	73	77	81	84	89	TOT	W FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.7	.1	2	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1	.1	.0	.0	6	.0	.4
11/13	.0	.0	.0	.0	.0	.0	.2	.3	.2	.2	.1	.1	.0	17	.0	1.2
9/10	.0	.0	.0	.0	.0	.0	.6	.6	.2	.1	.1	.0	.0	23	.0	1.7
7/8	.0	.0	.0	.0	.1	.4	.8	1.1	.8	.2	.1	.0	.0	51	.1	3.5
6	.0	.0	.0	.0	.0	.6	.5	.8	.1	.0	.0	.0	.0	27	.2	1.7
5	.0	.0	.0	.0	.3	.7	2.3	1.2	.3	.1	.0	.0	.0	71	.2	4.9
4	.0	.0	.0	.0	.2	1.4	1.8	1.3	.4	.1	.0	.0	.0	73	.1	3.1
3	.0	.0	.0	.0	.2	2.6	3.2	1.1	.1	.1	.0	.0	.0	102	.1	7.2
2	.0	.0	.0	.2	.9	4.0	4.0	1.6	.4	.0	.0	.0	.0	132	.4	10.6
1	.0	.0	.0	.1	1.0	3.1	3.7	1.1	.1	.0	.0	.0	.0	133	.4	10.7
0	.0	.0	.1	.4	1.4	6.3	3.1	1.2	.4	.0	.0	.0	.0	192	.4	12.7
-1	.0	.0	.1	.1	1.7	2.7	2.7	.7	.1	.0	.0	.0	.0	113	.1	8.0
-2	.0	.0	.1	.2	2.0	3.2	1.3	.6	.1	.0	.0	.0	.0	109	.3	7.5
-3	.0	.0	.3	.4	2.0	1.9	.6	.4	.1	.0	.0	.0	.0	80	.1	5.7
-4	.0	.1	.1	.4	1.9	1.9	1.2	.1	.0	.0	.0	.0	.0	80	.1	3.4
-5	.0	.1	.0	.6	1.3	1.0	.3	.1	.0	.0	.0	.0	.0	32	.0	3.7
-6	.0	.0	.3	.2	.8	.6	.2	.1	.0	.0	.0	.0	.0	34	.0	2.4
-7/8	.0	.0	.6	.4	.4	.4	.1	.1	.0	.0	.0	.0	.0	29	.0	2.1
-9/10	.1	.0	.4	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	16	.1	1.1
-11/13	.0	.0	.4	.3	.2	.0	.1	.0	.0	.3	.0	.0	.0	14	.0	1.0
-14/16	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-17/19	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	2	36	83	209	462	383	169	3.6	1.3	.4	2	1	1391	3.9	133.2
PCT	.1	.1	2.6	4.0	13.0	23.2	27.9	12.1	3.6	1.1	.4	.1	.1	100.0	2.8	97.2

PERIOD: (OVER-ALL) 1909-1973

TABLE 18

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

HGT	N						PCT	NE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.1	.0	.0	.0	.0	.0	.3	.0	1.4	.2	.0	.0	.0	.0	1.8
102	.2	1.9	.3	.0	.0	.0	2.4	.6	3.3	1.9	.0	.0	.0	.0	6.0
192	.0	.3	1.6	.0	.0	.0	2.1	.0	1.9	4.1	.0	.0	.0	.0	6.1
282	.0	.0	.4	.0	.0	.0	.4	.0	.4	2.0	.3	.0	.0	.0	2.8
372	.0	.0	.2	.0	.0	.0	.2	.0	.0	.7	.3	.0	.0	.0	1.2
462	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
552	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
642	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
732	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
822	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
912	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1002	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1092	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1182	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1272	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1362	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1452	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1542	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1632	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1722	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1812	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1902	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1992	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.9	2.7	.0	.0	.0	3.9	.8	7.2	9.0	.9	.0	.0	17.9	

HGT	E						PCT	SE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.1	.0	.0	.0	.0	.0	1.3	.0	.7	.2	.0	.0	.0	.0	.0
102	.0	3.4	1.7	.0	.0	.0	3.1	.0	4.8	1.6	.0	.0	.0	.0	6.4
192	.0	1.3	3.3	.1	.0	.0	4.8	.0	1.9	1.8	.0	.0	.0	.0	3.7
282	.0	.3	2.7	.3	.0	.0	4.0	.0	.4	2.0	.6	.0	.0	.0	3.1
372	.0	.1	.3	.0	.0	.0	1.3	.0	.6	.8	.2	.0	.0	.0	1.1
462	.0	.0	.4	.2	.0	.0	.7	.0	.0	.4	.0	.0	.0	.0	.4
552	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.4	.0	.0	.0	.8
642	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.6
732	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
822	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
912	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1002	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1092	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1182	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1272	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1362	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1452	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1542	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1632	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1722	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1812	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1902	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1992	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	6.4	10.2	1.1	.0	.0	17.8	.0	6.0	7.1	1.2	.0	.0	16.4	

PERIOD: (OVER-ALL) 1963-1975

NOVEMBER
TABLE 18 (CONT)

AREA 0012 BUENOS AIRES
34.4S 52.7W

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

HGT	SM						PCT	SM						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.7	.9	.0	.0	.0	.0	1.7	.0	1.0	.0	.0	.0	.0	1.0
1-2	.4	2.6	1.2	.0	.0	.0	4.1	.0	1.2	.2	.0	.0	.0	1.4
3-4	.0	1.9	2.9	.0	.0	.0	4.4	.2	1.0	.8	.2	.0	.0	2.2
5-6	.0	.3	2.5	.6	.0	.0	3.4	.0	.1	2.5	1.2	.0	.0	3.7
7	.0	.1	2.0	.3	.0	.0	2.8	.0	.0	.9	.8	.2	.0	2.0
8-9	.0	.0	.3	.3	.0	.0	1.8	.0	.0	.0	.8	.2	.0	1.0
10-11	.0	.0	.3	.2	.0	.0	.7	.0	.0	.2	1.3	.0	.0	1.5
12	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.1	.6	.0	.0	.7	.0	.0	.0	.0	.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	1.1	9.3	9.6	2.6	.0	.0	18.8	.2	3.4	4.6	4.3	.6	.0	13.2

HGT	NW						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.3	.2	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.1	
1-2	.0	.1	.0	.0	.0	.0	.1	.0	1.1	.6	.0	.0	.0	1.6	
3-4	.0	.9	.2	.0	.0	.0	1.1	.0	.4	1.0	.0	.0	.0	1.9	
5-6	.0	.2	.6	.2	.0	.0	.9	.0	.0	.1	.0	.0	.0	1.1	
7	.0	.0	.0	.3	.0	.0	.3	.0	.0	.2	.0	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.7	.9	1.1	.0	.0	3.9	.1	1.4	1.8	.0	.0	.0	3.4	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.7	3.8	.7	.0	.0	.0	11.3	348
1-2	1.3	18.4	7.3	.0	.0	.0	25.2	
3-4	.2	9.3	19.7	.2	.0	.0	29.4	
5-6	.0	1.6	13.1	3.3	.2	.0	18.2	
7	.0	.4	9.7	2.9	.2	.0	13.8	
8-9	.0	.2	1.3	1.3	.2	.0	3.0	
10-11	.0	.2	1.1	1.6	.0	.0	3.1	
12	.0	.4	.4	.9	.0	.0	1.3	
13-16	.0	.0	.2	1.1	.3	.0	1.8	
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	6.4	36.1	45.6	11.3	.5	.0	100.0	

PERIOD: (OVER-ALL) 1949-1975

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
<1	3.7	14.6	15.0	7.6	3.0	.7	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	423	3
1-2	.0	1.8	9.3	7.0	4.1	1.7	.9	.7	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	224	5
3-4	.0	.5	1.7	2.0	1.2	1.3	1.2	.3	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	87	7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	3
313	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	884	4
MEAN	3.2	1.7	3.3	1.8	1.9	1.1	.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
TOTAL	6.1	16.4	27.2	16.8	10.9	4.3	3.0	1.8	1.1	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	884	4
PCT	6.9	18.6	30.8	19.0	12.3	4.9	3.4	2.0	1.2	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

P. #100: (PRIMARY) 1909-1975
(OVER-ALL) 1864-1975

DECEMBER

AREA 0012 BUENOS AIRES
34.35 52.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	1.9	.6	.6	.0	.0	.0	.0	3.1	2.6	3.8	1.2	.0	.3	.0	89.0
NE	2.2	.3	.3	.0	.0	.0	.0	2.8	1.7	.7	2.8	.3	.9	.0	71.1
E	1.0	1.7	.7	.0	.0	.0	.0	3.9	2.1	1.6	2.2	.0	.0	.0	51.0
SE	2.9	1.2	.0	.0	.0	.0	.0	4.1	1.6	3.5	3.8	.0	.0	.0	86.2
S	.7	1.1	.4	.0	.0	.0	.0	2.3	.4	.6	3.9	.0	1.0	.0	95.0
SW	.7	1.1	.8	.0	.0	.0	.0	2.4	2.2	1.2	3.8	.0	.7	.0	95.0
W	9.4	.0	4.4	.0	.0	.0	.0	11.9	.0	.0	.0	.0	2.3	.0	85.3
NW	2.8	2.8	.0	.0	.0	.0	.0	3.6	3.1	.7	2.1	.0	.7	.0	87.8
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	11.1	.0	.0	.0	88.9
TOT PCT	1.9	.9	.3	.0	.0	.0	.0	3.3	1.7	1.5	3.0	.1	.6	.0	90.0
TOT OBS:	1286														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000	1.3	.3	.7	.0	.0	.0	.0	2.0	1.0	2.7	6.4	.3	.7	.0	87.3
0600	1.2	1.6	.0	.0	.0	.0	.0	2.8	1.2	3.2	1.2	.0	.0	.0	92.0
1200	2.7	1.9	1.1	.0	.0	.0	.0	3.6	2.6	.5	1.9	.0	.3	.0	88.6
1800	1.8	.3	.3	.0	.0	.0	.0	2.4	1.3	.3	2.6	.0	1.3	.0	92.1
TOT PCT	1.8	1.0	.3	.0	.0	.0	.0	3.3	1.7	1.5	3.0	.1	.7	.0	90.0
TOT OBS:	1306														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.9	6.3	3.8	.9	0	.0	14.0	11.1	10.5	14.7	15.8	17.8	16.9	14.2	12.1	10.3
NE	1.1	11.1	11.7	1.6	.1	.0	28.6	11.9	25.5	28.6	28.0	26.8	23.0	22.1	20.1	23.1
E	.8	6.9	6.0	.8	.1	.1	13.7	11.3	15.9	16.0	10.4	13.1	11.2	12.3	12.5	12.1
SE	.8	9.4	4.0	1.0	.3	0	11.4	12.2	13.0	12.6	11.2	10.3	9.7	12.2	13.3	
S	.7	4.7	3.1	1.8	.3	0	12.7	13.6	13.0	11.4	12.8	12.1	12.8	13.9	13.0	
SW	.5	3.2	3.8	1.9	.3	0	9.6	13.7	9.0	7.3	9.6	7.1	10.0	9.1	13.2	
W	.5	1.7	1.2	.6	.2	.1	4.1	13.7	2.5	3.1	4.0	3.9	4.4	7.0	3.1	
NW	.6	3.0	2.3	.4	.1	.0	6.3	10.8	4.0	4.8	3.1	3.9	9.0	8.7	4.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.6						2.6	.0	2.8	1.5	3.4	2.8	2.2	3.6	2.0	
TOT OBS	477	2426	2197	307	81	11	3699	11.9	388	713	383	383	383	1033	709	
TOT PCT	6.4	42.6	38.6	8.0	1.4	.2	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	09	15	18	21
N	3.7	7.6	2.5	.2	.0	14.0	11.1	12.3	10.6	15.5	11.5
NE	3.4	13.8	6.1	.2	0	23.6	11.9	28.5	27.5	22.5	23.1
E	3.4	7.7	2.3	.3	.1	13.7	11.3	15.9	11.5	11.7	15.7
SE	2.7	6.0	2.1	.5	.1	11.4	12.2	12.8	10.8	10.0	12.6
S	2.7	5.7	3.5	.7	.1	12.7	13.6	12.3	12.3	13.2	12.6
SW	1.6	4.2	2.7	.9	.1	9.6	13.2	8.4	8.6	9.5	11.9
W	1.3	1.7	.8	.3	.1	4.1	13.3	2.8	4.0	5.8	3.2
NW	2.2	2.9	1.0	.2	0	6.3	10.8	4.3	5.6	8.8	5.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6					2.6	.0	2.3	3.2	2.9	2.1
TOT OBS	1453	2877	1193	194	30	3699	11.9	1679	348	2003	1049
TOT PCT	28.5	49.6	20.9	3.4	.5	100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1909-1975
(OVER-ALL) 1864-1975

AREA 0012 BUENOS AIRES
34.35 52.74

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	2.3	5.0	40.4	41.8	8.6	1.7	.2	12.3	100.0	1679	
0600	3.2	5.0	41.7	39.0	10.3	.6	.2	12.0	100.0	948	
1200	2.9	7.2	44.2	34.8	8.9	1.8	.2	11.8	100.0	2003	
1800	2.1	4.9	43.7	42.0	8.0	1.3	.1	12.0	100.0	1069	
DT	149	328	2428	2197	307	81	11	11.9		3699	
PCT	2.6	5.8	42.6	38.6	8.9	1.4	.2	100.0			

TABLE 5

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

WIND DIR	0-2	3-6	7-7	8 & OBS	TOTAL CLOUD COVER	MEAN
N	7.4	2.0	2.2	2.0	3.0	
NE	11.9	3.3	3.0	4.9	3.6	
E	4.7	2.1	3.0	1.1	3.6	
SE	2.9	1.7	3.3	1.0	4.2	
S	3.2	2.9	4.2	1.8	3.9	
SW	6.3	3.7	4.1	1.8	3.6	
W	.9	1.0	.3	.0	4.1	
NW	.9	.9	1.4	1.2	3.7	
VAR	.0	.0	.0	.0	.0	
CALM	1.3	.6	.2	.3	2.7	
TOT OBS	381	183	207	129	870	
TOT PCT	43.7	17.6	23.8	14.8	100.0	

TABLE 6

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

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL ANY HGT	TOTAL OBS
N	.0	.1	.0	.0	1.0	1.2	.3	.0	.0	.0	.3	10.3	
NE	.1	.1	.1	1.1	2.6	1.8	.9	.3	.0	.0	.2	17.6	
E	.1	.0	.3	.9	1.0	1.0	.2	.0	.0	.0	.0	7.7	
SE	.2	.0	.0	.1	.7	1.0	.1	.3	.1	.1	.1	6.2	
S	.2	.1	.0	.4	1.3	1.3	.9	.3	.1	.2	.2	9.1	
SW	.0	.0	.1	.3	2.2	1.1	.6	.2	.1	.0	.0	11.3	
W	.0	.0	.1	.0	.1	.3	.2	.0	.0	.0	.0	2.1	
NW	.1	.0	.0	.1	.4	.2	.3	.0	.1	.3	.4	4.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	2.2	
TOT OBS	149	299	599	999	1999	3499	4999	6499	7999	8	9	617	870
TOT PCT	1.3	.3	.7	2.3	9.2	6.3	3.7	1.4	.7	1.0	70.9	100.0	

TABLE 7

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

CEILING (F87)	VSBY (NH)							
	>10	>8	>2	>1	>1/2	>1/4	>30/80	>0
>4500	1.3	1.3	1.6	1.6	1.6	1.6	1.6	1.6
>3000	3.4	3.0	3.1	3.2	3.2	3.2	3.2	3.2
>2500	5.4	6.3	6.7	6.8	6.8	6.8	6.8	6.8
>2000	11.9	14.6	14.9	15.1	15.1	15.1	15.1	15.1
>1000	18.1	23.3	23.7	23.8	23.8	23.8	23.8	24.1
>600	19.3	23.4	26.1	26.3	26.3	26.3	26.3	26.6
>300	20.0	26.1	26.8	27.0	27.0	27.1	27.1	27.3
>150	20.1	26.3	27.1	27.4	27.4	27.5	27.5	27.6
>0	20.1	26.6	27.8	28.1	28.1	28.4	28.7	28.8
TOTAL	176	233	244	246	246	249	252	253

TOTAL NUMBER OF OBS: 877 PCT FREQ NH <5/8: 71.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	8 OBS	TOTAL OBS
22.7	17.9	12.0	9.7	7.2	6.1	7.6	6.9	8.0	1.0	970

PERIOD: (PRIMARY) 1909-1975
(COVER-ALL) 1864-1975

DECEMBER

AREA 0012 BUENOS AIRES
34.35 52.7M

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2
	NO PCP	.1	.4	.0	.1	.3	.0	.0	.0	.0	.0	.1	.9
	TOT %	.1	.4	.0	.1	.3	.0	.1	.0	.0	.0	.1	1.1
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
	NO PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3
1<2	PCP	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2
	NO PCP	.0	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3
	TOT %	.0	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.5
2<5	PCP	.1	.2	.0	.1	.0	.1	.0	.1	.0	.0	.0	.6
	NO PCP	.1	.4	.1	.2	.0	.2	.0	.0	.0	.0	.2	1.1
	TOT %	.2	.6	.1	.2	.0	.2	.0	.1	.0	.0	.2	1.7
5<10	PCP	.2	.4	.3	.1	.1	.2	.1	.1	.0	.0	.0	1.5
	NO PCP	2.7	3.7	2.2	2.4	2.5	2.8	.3	.3	.0	.0	.4	19.7
	TOT %	2.9	4.1	2.4	2.4	2.6	3.0	.3	.4	.0	.0	.4	21.2
10+	PCP	.1	.0	.0	.2	.1	.0	.1	.1	.0	.0	.0	.6
	NO PCP	9.9	18.5	8.6	4.9	1.4	11.1	2.5	4.4	.0	.0	2.1	74.9
	TOT %	10.0	18.5	8.6	7.0	10.6	11.2	2.6	4.5	.0	.0	2.1	75.1
TOT OBS													1284
TOT PCT		19.9	29.8	11.3	10.0	13.7	14.4	3.1	5.6	.0	2.8	100.0	

TABLE 9

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

VISBY (MM)	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	.2
	4-10	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.3
	11-21	.1	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.3	.3	.1	.3	.0	.0	.0	.0	.0	.0	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	11-21	.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.4
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.4	.1	.1	.0	.1	.0	.0	.0	.0	.2	.3
	11-21	.2	.3	.2	.3	.1	.0	.0	.1	.0	.0	.0	.9
	22+	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.4	1.0	.4	.4	.3	.2	.1	.1	.0	.0	.2	2.9
5<10	0-3	.1	.1	.0	.2	.1	.0	.0	.1	.0	.0	.2	1.0
	4-10	1.0	2.0	.8	1.1	.7	.7	.1	.2	.0	.0	.0	6.3
	11-21	1.2	2.9	1.4	1.0	.9	.7	.1	.3	.0	.0	.0	8.4
	22+	.2	.4	.2	.1	.0	.7	.4	.0	.0	.0	.0	2.0
	TOT %	2.5	5.3	2.4	2.4	2.2	2.2	.6	.6	.0	.0	.2	18.4
10+	0-3	.4	.6	.3	.4	.4	.3	.2	.2	.0	2.0	.0	4.9
	4-10	4.9	8.3	4.6	4.8	3.3	2.3	1.2	2.8	.0	.0	.0	32.8
	11-21	4.2	9.6	4.2	3.0	4.4	4.1	1.2	1.3	.0	.0	.0	31.9
	22+	.3	1.0	.4	.2	1.8	2.4	.3	.2	.0	.0	.0	6.6
	TOT %	9.8	19.7	9.6	8.4	10.0	9.0	2.9	4.5	.0	2.0	.0	76.1
TOT OBS													2345
TOT PCT		19.1	26.9	12.7	11.5	12.7	11.5	3.6	3.2	.0	2.9	100.0	

DECEMBER

PERIOD: (PRIMARY) 1969-1973
(OVER-ALL) 1964-1973

AREA 0012 BUENOS AIRES
34.35 52.74

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM < 5/8 ANY HGT	TOTAL OBS
0000Z	3.5	.5	1.0	2.0	5.9	5.4	3.0	1.0	1.0	2.0	29.2	70.8	202
0600Z	.6	.0	.6	3.4	5.7	9.8	2.3	2.3	.6	.6	25.9	74.1	174
1201Z	.4	.0	.8	3.1	9.2	7.7	4.6	.8	1.1	.8	28.4	71.6	201
1802Z	.7	.7	.3	1.3	8.7	8.0	3.3	2.0	.0	.7	25.7	74.3	300
TOT	11	3	6	22	80	72	32	14	6	9	155	682	937
PCT	1.2	.3	.6	2.3	8.5	7.7	3.4	1.5	.6	1.0	27.2	72.8	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
0000Z	1.4	.6	.8	3.8	20.5	72.9	635
0600Z	.9	.2	.9	3.0	19.6	75.3	433
1201Z	1.4	.3	1.1	2.5	18.2	76.5	724
1802Z	.9	.2	1.2	2.4	15.7	79.6	573
TOT	28	8	24	69	437	1799	2365
PCT	1.2	.3	1.0	2.9	18.5	76.1	100.0

TABLE 12

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

HOUR (GMT)	<150 (<500)	<600 (<1)	<1000 (<5)	1000+ AND 5+	NM < 5/8 AND 5+	TOTAL OBS
0000Z	3.8	5.4	9.1	23.2	68.6	185
0600Z	1.2	1.8	6.7	22.0	71.3	164
1201Z	.4	1.6	6.1	24.5	69.4	245
1802Z	.7	2.1	4.2	23.0	72.8	283
TOT	12	23	53	204	620	877
PCT	1.4	2.6	6.0	23.3	70.7	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	.4	.4	.3	.1	.0	9	1.2
73/79	.0	.0	.0	.4	.6	2.3	1.4	.3	39	3.0
79/74	.0	.0	.5	.6	3.6	7.4	10.1	8.2	238	30.3
69/69	.0	.0	.6	1.0	3.3	10.4	12.3	11.9	310	39.7
60/64	.0	.0	.1	2.2	5.0	3.7	4.6	3.6	150	19.2
53/59	.0	.0	.0	.3	.8	1.3	1.5	.6	34	4.4
50/54	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	0	10	38	107	198	236	192	761	100.0
PCT	.0	.0	1.3	4.9	13.7	25.4	30.2	24.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.2	.4	.0	.0	.2	.2	.0	.1	.0	.0
73/79	1.0	1.9	.4	.3	.1	.3	.2	.4	.0	.3
79/74	5.4	10.6	3.6	3.0	2.0	2.4	.9	2.1	.0	.6
69/69	5.0	10.7	4.4	4.4	4.9	6.0	.8	3.1	.0	.3
60/64	1.0	3.0	1.7	1.9	4.4	3.7	.7	.7	.0	.4
53/59	.1	.2	.1	.4	2.0	.9	.2	.1	.0	.4
50/54	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
TOTAL	12.6	26.8	10.2	10.0	13.5	13.5	2.8	6.5	.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
0000Z	82	76	73	67	59	56	48	66.9	1639
0600Z	82	73	72	66	58	55	47	65.8	949
1201Z	86	79	76	68	60	56	48	68.4	1917
1802Z	86	82	79	70	61	57	54	70.1	1013
TOT	86	80	75	68	59	56	47	67.8	5338

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	3.8	9.6	25.8	30.6	30.1	82	209		
0600Z	.0	3.1	8.1	15.4	41.9	29.4	83	136		
1201Z	.0	3.7	16.2	27.3	26.6	24.0	79	229		
1802Z	.0	9.0	10.3	28.7	23.1	17.9	76	223		
TOT	0	48	111	202	238	198	80	797		

DECEMBER

PERIOD: (PRIMARY) 1969-1975
(OVER-ALL) 1964-1975

AREA 0012 BUENOS AIRES
34.35 52.7W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF PDC (WITH/OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	N PDC	W0 PDC
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	2	.0	.2
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	3	.0	.3
14/16	.0	.0	.0	.0	.1	.0	.1	.1	.2	.1	5	.0	.4
11/13	.0	.0	.0	.0	.1	.2	.4	.4	.9	.1	24	.0	2.0
9/10	.0	.0	.0	.0	.3	.2	.8	.4	.2	.0	19	.0	1.6
7/8	.0	.0	.0	.0	.3	.5	.8	.9	.2	.0	30	.0	2.6
6	.0	.0	.0	.1	.0	.3	.8	.4	.1	.0	19	.1	1.5
5	.0	.0	.0	.4	.7	.9	1.1	.7	.3	.0	47	.1	3.9
4	.0	.0	.1	.2	.8	2.3	1.5	.7	.1	.0	66	.4	5.2
3	.0	.0	.0	.8	.6	1.8	2.0	.2	.0	.0	63	.3	5.0
2	.0	.0	.2	.3	2.7	4.5	2.9	.5	.0	.0	131	.6	10.6
1	.0	.0	.2	.5	3.3	4.9	1.3	.0	.0	.0	120	.1	10.1
0	.0	.0	.0	1.6	4.8	5.8	1.5	.3	.0	.0	164	.4	13.5
-1	.0	.2	.1	.7	3.7	2.1	.4	.1	.0	.0	86	.0	7.3
-2	.0	.1	.5	3.7	3.7	1.9	.3	.0	.0	.0	117	.3	9.7
-3	.0	.2	.3	1.8	1.8	.5	.0	.0	.0	.0	34	.3	4.3
-4	.0	.1	.9	2.3	2.2	.4	.2	.0	.0	.0	71	.2	5.9
-5	.0	.1	.9	1.4	1.7	.3	.0	.0	.0	.0	52	.0	4.4
-6	.0	.0	.8	.9	.4	.1	.0	.0	.0	.0	25	.3	1.8
-7/-8	.0	.2	.7	1.4	1.2	.1	.0	.0	.0	.0	41	.0	3.5
-9/-10	.0	.4	.6	.7	.2	.0	.0	.0	.0	.0	22	.0	1.9
-11/-13	.1	.1	.3	.3	.2	.0	.0	.0	.0	.0	11	.0	.9
-14/-16	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	1	15	65	201	336	311	164	93	22	5	1175	36	1139
PCT	.1	1.3	5.5	17.1	28.6	26.5	14.0	4.7	1.9	.4	100.0	3.1	96.9

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

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

HGT	N					PCT	NE					PCT	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.0	.0	.0	.0	.0	.0	.0	1.0	.2	.0	.0	.0	1.3
1-2	.2	3.1	1.0	.0	.0	4.3	.3	4.4	3.2	.0	.0	.0	8.0
3-4	.0	1.4	3.4	.2	.0	5.0	.0	1.7	6.7	.2	.0	.0	8.6
5-6	.0	.7	3.7	.7	.0	5.0	.0	.2	4.8	.8	.0	.0	5.9
7	.0	.0	.0	.2	.0	.2	.0	.0	1.0	.3	.0	.0	1.4
8-9	.0	.0	.4	.0	.0	.4	.0	.0	.3	.2	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.5
12	.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
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.0	8.5	1.1	.0	13.8	.3	7.4	16.4	2.0	.2	.0	26.3

HGT	E					PCT	SE					PCT	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.9
1-2	.0	2.8	1.2	.0	.0	4.0	.0	1.1	.8	.0	.0	.0	1.9
3-4	.0	.8	2.8	.2	.0	3.8	.1	.8	1.7	.0	.0	.0	2.6
5-6	.0	.2	1.9	.4	.0	2.5	.0	.3	.7	.0	.0	.0	1.1
7	.0	.0	.0	.2	.0	.2	.0	.0	.2	.2	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.8	5.9	.9	.0	10.6	.1	2.3	3.4	.3	.1	.0	7.1

PERIOD: (OVER-ALL) 1963-1975

DECEMBER

AREA 0012 BUENOS AIRES
34.35 52.7W

TABLE 18 (CONT)

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

HGT	SW						PCT	NW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.7	.0	.0	.0	.0	.7	.0	.1	.0	.0	.0	.0	.1
1-2	.2	1.8	.4	.0	.0	.0	2.3	.0	1.1	.2	.0	.0	.0	1.3
3-4	.2	1.0	2.3	.0	.0	.0	3.6	.0	1.9	2.4	.0	.0	.0	4.3
5-6	.0	.2	.8	.3	.0	.0	1.6	.0	.5	2.3	.3	.0	.0	3.4
7	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.6	.2	.0	.0	.8
8-9	.0	.0	.7	.6	.0	.0	1.3	.0	.0	.3	.6	.0	.0	1.1
10-11	.0	.0	.0	.2	.2	.0	.4	.0	.2	.2	.7	.3	.0	1.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.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	.4	3.7	6.9	1.3	.6	.0	12.9	.0	3.8	6.7	2.3	.3	.0	13.1

HGT	SW						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	.0
1-2	.0	.8	.2	.0	.0	.0	1.1	.2	1.5	.2	.0	.0	.0	1.9	.0
3-4	.0	.2	.7	.0	.0	.0	.8	.0	.8	.8	.0	.0	.0	1.6	.0
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.3	.6	.2	.0	.0	1.1	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.6	1.1	.4	.2	.0	2.8	.2	2.9	1.6	.2	.0	.0	4.9	93.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.7	4.0	.2	.0	.0	.0	10.9	
1-2	1.4	16.4	7.1	.0	.0	.0	24.9	
3-4	.2	8.6	20.7	.7	.0	.0	30.2	
5-6	.0	2.6	15.0	3.1	.0	.0	20.7	
7	.0	.0	4.3	1.4	.0	.0	5.7	
8-9	.0	.0	2.1	1.7	.0	.0	3.8	
10-11	.0	.2	.2	1.2	.7	.0	2.4	
12	.0	.0	.0	.0	.0	.0	.2	
13-16	.0	.0	.0	.3	.7	.0	1.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.3	31.8	49.9	8.6	1.4	.0	100.0	421

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENTY 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	
<1	2.0	8.9	18.9	8.0	2.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	310	3
1-2	.1	.9	7.3	11.9	5.2	2.6	1.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	231	6
3-4	.0	.0	1.6	2.6	3.1	1.2	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	6
5-6	.0	1.6	.3	.0	.1	.9	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	6
7	.0	.0	1.6	.7	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	5
8-9	.0	.0	.1	1.2	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	5
10-11	1.8	2.4	2.8	1.2	1.0	.3	.3	.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	4
TOTAL	30	102	269	193	96	44	26	11	12	0	0	0	0	0	0	0	0	0	0	0	763	5
PCT	3.9	13.4	32.6	25.3	12.6	5.8	3.4	1.4	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1909-1976
(OVER-ALL) 1854-1976

ANNUAL

AREA 0012 BUENOS AIRES
34.55 52.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHR FRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG MD PCPN	FOG MD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	2.5	.8	1.1	.0	.0	.0	.0	4.4	1.5	2.1	8.9	.2	1.4	.1	83.9
NE	3.3	1.6	.9	.0	.0	.0	.0	5.0	2.1	1.8	7.4	.3	1.2	.0	82.0
E	4.6	2.2	1.6	.0	.0	.0	.0	8.3	2.8	1.0	4.2	.2	.9	.0	82.9
SE	4.3	2.4	1.7	.0	.0	.0	.0	8.3	2.3	1.3	3.4	.2	.6	.0	84.3
S	3.6	2.0	1.0	.0	.0	.0	.0	6.5	2.2	.8	3.6	.2	.7	.0	86.4
SW	1.9	1.5	.6	.0	.0	.0	.1	4.1	1.9	1.0	3.2	.0	.5	.0	89.3
W	3.2	1.1	.9	.0	.0	.0	.0	5.0	1.5	1.2	4.3	.2	.6	.0	87.5
NW	2.4	1.1	.8	.0	.0	.0	.0	4.3	1.7	1.4	6.0	.2	.7	.1	85.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALP	.9	1.0	1.0	.0	.0	.0	.1	3.1	2.4	.4	15.5	.0	.7	.0	77.3
TOT PCT	3.1	1.5	1.0	.0	.0	.0	.0	5.0	2.0	1.3	9.4	.2	.9	.0	85.1
TOT OBS:	24955														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHR FRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG MD PCPN	FOG MD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
0000	3.5	1.4	1.0	.0	.0	.0	.0	5.9	1.9	2.4	5.4	.1	.7	.0	84.2
0600	3.3	1.8	1.1	.0	.0	.0	.0	6.2	2.2	2.9	4.9	.2	.8	.0	83.8
1200	2.9	1.3	.9	.0	.0	.0	.0	5.3	1.7	.4	5.5	.2	1.1	.0	86.0
1800	2.6	1.4	1.1	.0	.0	.0	.0	5.1	2.1	.3	5.5	.2	1.1	.0	85.7
TOT PCT	3.1	1.5	1.0	.0	.0	.0	.0	5.6	2.0	1.3	9.4	.2	.9	.0	85.1
TOT OBS:	29489														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-29	34-47	48+				00	03	06	09	12	15	18	21
N	.9	5.9	4.7	.9	.1	.0	12.3	11.4	9.9	12.7	12.7	16.1	14.4	13.1	10.9	10.3
NE	1.0	8.4	9.1	1.3	.1	.0	29.1	11.9	21.0	21.4	20.7	18.3	17.2	16.3	19.7	18.2
E	.8	5.8	4.1	.7	.1	.0	11.6	11.1	19.4	12.8	10.8	11.1	9.9	10.8	11.0	13.1
SE	.8	5.7	4.1	1.0	.2	.0	11.8	11.8	12.6	19.1	10.8	12.1	11.0	11.6	10.8	13.3
S	.8	3.0	3.1	1.6	.3	.1	13.0	13.4	13.7	12.7	12.2	12.4	12.7	12.7	13.7	14.0
SW	.7	4.2	3.2	2.5	.6	.1	13.4	13.6	13.4	11.0	14.0	11.3	13.7	13.2	16.3	12.3
W	.6	2.8	2.9	1.1	.4	.1	7.7	14.1	6.6	8.2	7.8	7.2	8.1	9.7	7.7	7.1
NW	.6	3.7	2.6	.7	.2	.0	7.8	11.7	5.3	7.4	7.4	8.3	9.3	10.0	6.6	6.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALP	3.2						3.2	.0	3.8	2.7	4.4	3.0	3.4	2.6	3.2	2.2
TOT OBS							82461	12.3	14336	9779	9288	5397	14407	13662	10227	5183
TOT PCT	9.5	41.7	36.4	9.9	2.1	.4	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	12	18
N	3.3	6.6	2.2	.3	.0	12.3	11.4	11.0	13.9	13.8	10.8
NE	4.1	10.3	4.0	.4	.1	19.1	11.9	21.2	19.8	16.8	19.2
E	3.2	6.2	1.8	.3	.0	11.6	11.1	13.2	10.4	10.3	12.4
SE	3.1	6.0	2.1	.4	.1	11.8	11.8	12.8	11.2	11.3	11.6
S	2.9	3.9	3.4	.7	.1	13.0	13.4	13.3	12.3	12.7	13.8
SW	2.4	3.4	4.0	1.3	.3	13.4	13.6	12.4	13.0	13.3	13.1
W	1.9	3.1	1.7	.8	.3	7.7	14.1	6.4	7.6	8.9	7.3
NW	2.2	3.8	1.4	.3	.1	7.8	11.7	6.3	7.8	9.7	6.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALP	3.2					3.2	.0	3.3	3.9	3.0	2.9
TOT OBS						82461	12.3	24113	14663	28289	13412
TOT PCT	26.3	47.4	20.6	4.3	1.0	100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1909-1976
(OVER-ALL) 1854-1976

ANNUAL

AREA 0012 BUENOS AIRES
34.52 52.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT PRG	TOTAL OBS
				11-21	22-29	34-47	48+			
0000	3.3	6.0	41.0	37.4	9.7	2.0	.5	12.3	100.0	24115
0600	3.9	6.0	40.3	37.4	10.2	2.0	.3	12.3	100.0	14665
1200	3.0	6.0	43.6	34.7	10.1	2.3	.5	12.3	100.0	28269
1800	2.9	6.0	42.5	37.1	9.5	1.6	.4	12.1	100.0	15412
TOT								12.3		82461
PCT	3.2	6.2	41.7	34.4	9.9	2.1	.4	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	7.8	3.0	4.5	4.7		4.2
E	3.7	1.7	2.6	2.9		4.5
SE	3.0	1.7	2.7	2.9		4.6
S	4.5	2.3	3.6	2.8		4.2
SW	3.9	3.3	4.4	2.9		3.9
W	3.2	1.1	1.8	1.2		3.6
NW	2.9	.8	1.3	1.2		2.3
VAR	.0	.0	.0	.0		.0
CALM	1.9	.3	.6	1.4		3.4
TOT OBS					13941	4.0
TOT PCT	38.0	16.0	24.0	21.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, MM >4/8)
AND OCCURRENCE OF NM <3/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <3/8 ANY MGT	TOTAL OBS
N	.6	.0	.1	.3	.8	1.0	.4	.1	.1	.1	.1	8.1
NE	1.1	.1	.2	.8	2.0	1.7	.4	.3	.2	.2	.2	13.0
E	.9	.0	.2	.9	1.2	1.0	.5	.1	.1	.1	.1	6.7
SE	.4	.0	.1	.4	1.2	1.0	.5	.2	.1	.0	.0	3.9
S	.4	.0	.1	.6	1.7	1.6	.9	.1	.1	.1	.0	8.1
SW	.6	.0	.1	.7	1.8	2.0	.6	.1	.1	.1	.1	10.3
W	.2	.0	.0	.3	.8	.8	.3	.0	.1	.0	.0	4.8
NW	.2	.0	.0	.2	.8	.8	.2	.0	.0	.1	.1	4.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8	.0	.0	.1	.3	.4	.1	.0	.0	.0	.0	2.3
TOT OBS	4.7	.1	.9	3.9	10.4	9.9	3.7	1.0	.7	.6	64.1	13941
TOT PCT												100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>8	>2	>1	>1/2	>1/4	>30YD	>30
>4500	.9	1.2	1.3	1.3	1.3	1.3	1.3	1.3
>3000	1.6	2.2	2.3	2.3	2.3	2.3	2.4	2.4
>2500	4.0	3.6	3.9	6.0	6.0	6.0	6.1	6.1
>2000	9.7	14.4	13.3	13.7	13.8	13.9	13.9	13.9
>1000	14.8	23.0	23.4	23.9	26.0	26.2	26.2	26.2
>600	16.8	26.3	29.1	29.7	29.9	30.1	30.1	30.2
>300	17.1	27.0	29.9	30.6	30.8	31.0	31.0	31.1
>150	17.2	27.1	30.1	30.7	31.0	31.1	31.2	31.2
>0	17.2	27.4	31.1	32.0	32.4	33.3	33.3	33.6

TOTAL NUMBER OF OBS: 16029

PCT PRG NM <3/8: 64.2

TABLE 7A

PERCENTAGE PRG OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS	
23.4	12.9	11.6	8.8	6.7	5.2	7.3	6.6	13.4	4.0	17902

PERIOD: (PRIMARY) 1909-1976
(OVER-ALL) 1854-1976

ANNUAL

AREA 0012 BUENOS AIRES
34.85 52.8W

TABLE 8

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

VISIBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3
	NO PCP	.9	.7	.2	.1	.2	.2	.2	.2	.0	.5	.5	2.9
	TOT %	.3	.8	.3	.2	.3	.3	.2	.2	.0	.5	.5	3.2
1/2<1	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3
	NO PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	TOT %	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.7
1<2	PCP	.0	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.6
	NO PCP	.1	.2	.1	.0	.0	.1	.1	.1	.0	.0	.0	.7
	TOT %	.2	.4	.2	.1	.1	.1	.1	.1	.0	.1	.1	1.3
2<5	PCP	.1	.3	.3	.2	.2	.1	.1	.1	.0	.1	.1	1.4
	NO PCP	.9	1.0	.4	.3	.4	.6	.3	.2	.0	.1	.1	3.7
	TOT %	.6	1.3	.7	.5	.6	.7	.4	.2	.0	.2	.2	5.1
5<10	PCP	.9	.5	.3	.3	.3	.3	.1	.1	.0	.0	.0	2.3
	NO PCP	3.3	3.3	3.0	2.6	3.1	4.2	2.1	1.7	.0	1.0	.0	26.7
	TOT %	3.6	3.8	3.3	2.9	3.4	4.4	2.2	1.9	.0	1.0	.0	29.0
10+	PCP	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.7
	NO PCP	7.1	11.7	6.9	6.1	8.3	9.8	4.6	4.0	.0	2.0	.0	60.6
	TOT %	7.2	11.8	7.0	6.2	8.4	9.9	4.6	4.1	.0	2.0	.0	61.3
TOT OBS													24875
TOT PCT		12.1	20.1	11.9	10.0	12.9	13.5	7.9	6.5	.0	3.9	100.0	

TABLE 9

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

VISIBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.4	.0	.7
	4-10	.3	.3	.1	.1	.1	.1	.1	.1	.0	.0	.0	1.3
	11-21	.1	.2	.1	.0	.1	.1	.0	.0	.0	.0	.0	.5
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.4	.6	.2	.2	.2	.2	.1	.2	.0	.0	.4	2.6
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.6
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
	4-10	.1	.1	.1	.0	.0	.1	.0	.1	.0	.0	.0	.6
	11-21	.1	.2	.1	.1	.1	.1	.0	.0	.0	.0	.0	.6
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
	TOT %	.2	.4	.2	.2	.1	.1	.1	.1	.0	.1	.1	1.6
2<5	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	.0	.4
	4-10	.3	.3	.3	.2	.2	.2	.1	.1	.0	.0	.0	1.9
	11-21	.2	.6	.3	.2	.3	.3	.1	.1	.0	.0	.0	2.1
	22+	.1	.1	.1	.1	.1	.2	.1	.0	.0	.0	.0	.9
	TOT %	.6	1.3	.7	.6	.6	.7	.4	.3	.0	.2	.2	5.3
5<10	0-3	.2	.2	.1	.1	.1	.1	.1	.1	.0	.0	.0	1.8
	4-10	1.4	1.9	1.2	1.1	.9	.9	.6	.7	.0	.0	.0	8.8
	11-21	1.2	2.4	1.2	1.0	1.3	1.3	.6	.6	.0	.0	.0	9.9
	22+	.2	.4	.2	.3	.3	.3	.2	.2	.0	.0	.0	3.1
	TOT %	3.0	4.9	2.6	2.5	2.9	3.5	1.7	1.5	.0	.0	.0	23.7
10+	0-3	.3	.7	.4	.4	.4	.3	.3	.3	.0	1.9	.0	5.4
	4-10	4.2	5.6	4.2	4.0	3.7	3.1	.8	2.3	.0	.0	.0	29.2
	11-21	3.1	5.7	2.8	2.7	4.1	4.3	.7	1.6	.0	.0	.0	26.4
	22+	.3	.5	.3	.3	1.0	1.0	.8	.3	.0	.0	.0	5.4
	TOT %	8.1	12.7	7.7	7.5	9.2	9.0	4.8	4.7	.0	1.9	.0	66.3
TOT OBS													39530
TOT PCT		12.4	20.0	11.7	11.0	13.1	14.5	7.2	6.0	.0	3.4	100.0	

PERIOD: (PRIMARY) 1909-1974
(OVER-ALL) 1854-1976

ANNUAL

AREA 0012 BUENOS AIRES
34.35 52.0W

TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY MGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
0000	7.5	.2	.6	2.8	7.9	6.5	2.6	.8	.7	.4	29.9	70.1	3530
0600	5.8	.2	.7	3.4	9.2	7.0	3.3	.8	.3	.7	31.3	68.7	3336
1200	2.4	.1	1.1	4.5	10.7	11.8	3.8	1.2	.7	.4	37.6	62.4	5184
1800	2.6	.1	.9	3.7	10.4	10.1	3.9	1.0	.9	.8	34.3	65.7	5119
TOT													17169
PCT	4.4	.1	.8	3.7	9.7	9.3	3.5	1.0	.7	.6	33.8	66.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (MM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
0000	2.6	.6	1.2	3.9	26.2	63.5	10768
0600	2.8	.4	1.3	6.3	26.3	62.6	7910
1200	2.7	.8	1.6	4.6	22.6	67.8	12282
1800	2.3	.7	1.3	4.3	20.6	70.1	9102
TOT							40062
PCT	2.6	.6	1.4	3.3	23.8	66.1	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NM <5/8	TOTAL
(GMT)	<500	<1	<5	AND 5+	AND 5+	OBS
0000	8.2	9.6	16.9	18.2	64.9	3167
0600	6.4	8.1	16.0	19.9	64.1	3063
1200	3.5	3.3	14.2	26.9	98.9	4877
1800	2.6	4.3	12.9	24.1	63.0	4922
TOT						16029
PCT	4.7	6.4	14.7	23.0	62.3	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	PCT
									OBS	FREQ
90/94	.0	.0	.0	.0	.0	.0	.0	.0		.0
85/89	.0	.0	.0	.0	.0	.0	.0	.0		.1
80/86	.0	.0	.0	.1	.2	.3	.1	.0		.8
75/79	.0	.0	.2	.2	1.0	1.4	.9	.0		4.7
70/74	.0	.0	.1	.6	2.2	3.9	3.7	4.4		17.0
65/69	.0	.0	.2	.9	2.3	4.4	6.2	3.5		19.3
60/66	.0	.0	.1	1.0	3.4	4.3	6.3	6.1		21.2
55/59	.0	.0	.0	.6	2.2	3.9	6.7	6.4		19.8
50/56	.0	.0	.0	.3	1.6	2.2	4.9	3.6		12.3
45/49	.0	.0	.0	.0	.9	1.4	1.2	1.0		4.2
40/44	.0	.0	.0	.0	.1	.1	.1	.1		.3
TOTAL									12770	100.0
PCT	.0	.0	.6	3.9	19.1	22.0	32.4	27.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	E	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85/89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
80/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
75/79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
70/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
65/69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
60/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
55/59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
50/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
45/49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
40/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL										
PCT	12.3	20.0	12.0	11.0	13.9	14.3	7.4	7.1	.0	2.0

TABLE 15

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

HR	MAX	95%	93%	90%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
0000	86	72	69	62	53	50	36	61.4	23933
0600	71	68	61	53	49	37	30.5	14653	
1200	71	75	71	63	55	31	36	62.7	27554
1800	91	76	73	64	58	32	37	63.8	14970
TOT	91	74	71	62	54	36	36	62.1	81132

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
0000	.0	3.1	11.2	20.8	33.4	31.7	83	3326		
0600	.0	2.3	9.9	19.0	33.8	36.9	83	2563		
1200	.0	4.3	12.7	22.2	32.7	38.0	81	3560		
1800	.0	7.6	17.6	25.0	30.3	19.2	78	3194		
TOT	1	596	1721	2888	4248	3673	61	13123		

ANNUAL

PERIOD: (PRIMARY) 1969-1976
(OVER-ALL) 1954-1976

AREA 0012 BUENOS AIRES
34.35 52.04

TABLE 17

PCT FRIG OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH/OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIFF	33	37	41	45	44	53	57	61	65	69	73	77	81	85	89	TOT	% FOG	% FOG
23/23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	.0
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	.0	.0
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	61	.0	.3
11/13	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.2	.1	.0	174	.0	.8
9/10	.0	.0	.0	.0	.0	.1	.2	.2	.2	.2	.2	.3	.4	.1	.0	266	.0	1.2
7/9	.0	.0	.0	.0	.0	.3	.4	.5	.4	.3	.3	.4	.1	.0	.0	630	.2	2.6
6	.0	.0	.0	.0	.0	.3	.4	.5	.4	.3	.3	.4	.1	.0	.0	437	.2	1.8
5	.0	.0	.0	.0	.2	.3	.4	.5	.4	.3	.3	.4	.1	.0	.0	987	.4	4.0
4	.0	.0	.0	.0	.0	.0	1.0	1.0	.5	.7	.9	.9	.0	.0	.0	1325	.4	5.4
3	.0	.0	.0	.0	.3	.3	.8	1.1	1.1	.6	.8	.2	.0	.0	.0	1310	.4	5.4
2	.0	.0	.0	.0	.0	1.4	1.7	1.3	1.3	1.4	1.4	.3	.0	.0	.0	2310	.7	9.4
1	.0	.0	.0	.0	.2	1.4	1.6	1.3	1.3	1.6	1.1	.1	.0	.0	.0	2123	.5	8.9
0	.0	.0	.0	.0	1.2	1.9	2.0	1.8	1.7	2.4	1.3	.2	.0	.0	.0	2973	.8	12.1
-1	.0	.0	.0	.0	.3	1.0	1.4	1.1	1.3	1.9	.3	.0	.0	.0	.0	2024	.4	8.3
-2	.0	.0	.0	.0	.4	1.3	1.2	1.5	1.4	1.6	.4	.0	.0	.0	.0	2247	.5	9.0
-3	.0	.0	.0	.0	.3	.7	.9	.9	1.0	1.0	.2	.0	.0	.0	.0	1384	.3	5.7
-4	.0	.0	.0	.0	.3	.8	.7	.9	1.0	1.3	.8	.1	.0	.0	.0	1394	.3	5.7
-5	.0	.0	.0	.0	.4	.6	.8	.8	1.0	.4	.1	.0	.0	.0	.0	1080	.1	4.4
-6	.0	.0	.1	.2	.4	.3	.3	.3	.3	.2	.0	.0	.0	.0	.0	631	.2	2.3
-7/-8	.0	.0	.1	.3	.3	.3	.3	.3	.3	.1	.0	.0	.0	.0	.0	881	.1	3.5
-9/-10	.0	.0	.1	.2	.3	.4	.3	.3	.3	.0	.0	.0	.0	.0	.0	424	.1	1.7
-11/-13	.0	.0	.1	.1	.2	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	287	.0	1.1
-14/-16	.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	102	.0	.4
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	.0	.1
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	.0	.1
-23/-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	.0	.1
TOTAL					.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	23151		
PCT	.0	.1	.3	3.9	9.9	14.2	13.9	13.9	14.0	13.9	8.1	2.8	.7	.2	.0	100.0	5.3	94.5

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

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

HGT	N					PCT	NE					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
41	.3	.9	.0	.0	.0	1.3	.4	1.2	.1	.0	.0	1.6
1-2	.1	2.3	.3	.0	.0	2.9	.2	3.3	1.4	.0	.0	5.1
3-4	.0	1.2	1.9	.1	.0	3.2	.0	2.0	3.8	.1	.0	6.0
5-6	.0	.2	1.5	.2	.0	1.9	.0	.3	3.0	.4	.0	3.8
7	.0	.0	.3	.1	.0	.6	.0	.0	1.3	.4	.0	1.9
8-9	.0	.0	.1	.1	.0	.3	.0	.0	.4	.2	.0	.6
10-11	.0	.0	.1	.1	.0	.2	.0	.0	.2	.2	.0	.3
12	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.7	4.7	.6	.0	10.3	.3	7.2	10.3	1.3	.1	19.9

HGT	E					PCT	SE					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
41	.2	1.0	.1	.0	.0	1.2	.2	.7	.0	.0	.0	1.0
1-2	.1	2.0	.9	.0	.0	3.0	.1	1.7	.7	.0	.0	2.5
3-4	.0	.9	1.9	.1	.0	2.9	.0	.8	1.3	.0	.0	2.2
5-6	.0	.3	1.3	.2	.0	1.7	.0	.3	1.1	.2	.0	1.3
7	.0	.0	.4	.2	.0	.6	.0	.0	.4	.1	.0	.6
8-9	.0	.0	.2	.1	.0	.3	.0	.0	.2	.1	.0	.3
10-11	.0	.0	.0	.1	.0	.1	.0	.0	.1	.1	.0	.2
12	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.2	4.3	.7	.0	10.0	.3	3.7	3.9	.6	.0	8.4

PERIOD: (OVER-ALL) 1963-1974

ANNUAL

AREA 0012 BUENOS AIRES
34.58 52.8W

TABLE 10 (CONT)

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.8	.0	.0	.0	.0	1.1	.3	.7	.1	.0	.0	.0	1.0
1-2	.2	1.0	.8	.0	.0	.0	2.0	.0	1.7	.6	.0	.0	.0	2.4
3-4	.0	1.1	1.0	.1	.0	.0	3.1	.0	1.4	2.2	.1	.0	.0	3.7
5-6	.0	.3	1.6	.3	.0	.0	2.2	.0	.3	2.1	.4	.0	.0	2.8
7	.0	.1	1.2	.4	.0	.0	1.6	.0	.1	1.6	.7	.0	.0	2.7
8-9	.0	.0	.4	.3	.0	.0	.7	.0	.0	.8	.9	.1	.0	1.7
10-11	.0	.0	.3	.2	.0	.0	.6	.0	.0	.5	1.0	.1	.0	1.6
12	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.4	.0	.0	.8
13-16	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.3	.1	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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
71-84	.0	.0	.0	.0	.0	.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	4.1	6.2	1.5	.1	.0	13.4	.3	4.3	8.3	3.9	.3	.0	17.2

HGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.0	.0	.0	.0	.0	.7	.2	.5	.0	.0	.0	.0	.7
1-2	.0	.9	.4	.0	.0	.0	1.3	.1	1.2	.4	.0	.0	.0	1.6
3-4	.0	.0	1.0	.1	.0	.0	1.8	.0	.7	1.2	.1	.0	.0	1.9
5-6	.0	.2	.8	.1	.0	.0	1.1	.0	.1	.3	.1	.0	.0	.8
7	.0	.0	.5	.3	.0	.0	.8	.0	.0	.2	.2	.0	.0	.4
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	.1	.1	.0	.0	.1
10-11	.0	.0	.1	.3	.1	.0	.5	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.2	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.1	.0	.4	.0	.0	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-84	.0	.0	.0	.0	.0	.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	2.3	3.1	1.3	.4	.0	7.3	.3	2.3	3.4	.8	.0	.0	9.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.3	6.3	.3	.0	.0	.0	17.2	
1-2	.9	13.1	3.7	.0	.0	.0	21.7	
3-4	.2	8.7	13.1	.7	.0	.0	24.7	
5-6	.0	2.1	11.9	1.7	.0	.0	15.6	
7	.0	.3	6.4	2.4	.1	.0	9.1	
8-9	.0	.1	2.2	1.9	.1	.0	4.4	
10-11	.0	.1	1.4	2.1	.2	.0	3.8	
12	.0	.0	.3	.8	.1	.0	1.3	
13-16	.0	.0	.2	.9	.4	.0	1.5	
17-19	.0	.0	.0	.1	.1	.0	.2	
20-22	.0	.0	.0	.1	.1	.0	.2	
23-25	.0	.0	.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	
71-84	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.6	32.8	43.6	10.8	1.1	.1	100.0	9475

PERIOD: (OVER-ALL) 1949-1974

TABLE 10

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	71-84	87+	TOTAL	MEAN HGT		
<6	2.6	10.4	14.6	6.4	2.8	.8	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3444	3	
6-7	.0	1.2	6.0	7.8	4.9	2.0	1.2	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3393	6	
8-9	.0	.3	1.4	2.8	2.6	1.4	1.3	.6	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1594	7	
10-11	.0	.0	.3	.4	.6	.6	.4	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	529	7	
12-15	.0	.0	.0	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	305	7	
16-18	.0	.0	.0	.4	.2	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	148	8	
INDY	5.9	3.2	3.9	2.8	1.7	.7	.7	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3010	3	
TOTAL																						14426	3
PCT	8.5	15.0	27.1	20.5	13.2	6.0	4.5	1.7	1.8	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	5	

PERIOD: (PRIMARY) 1909-1976
(OVER-ALL) 1854-1976

AREA 0012 BUENOS AIRES
34.33 52.8W

TABLE 20

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

SEA TMP DEC 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	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0
81/82	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.24
79/80	.3	1.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	133
77/78	1.6	3.1	1.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	2	428
75/76	3.9	10.7	6.0	1.2	.1	.0	.0	.0	.0	.0	.0	.0	4	1395
73/74	19.6	29.8	20.3	4.7	.1	.0	.0	.0	.0	.0	.0	.0	6	4834
71/72	26.8	28.2	29.2	8.6	1.2	.2	.1	.0	.0	.0	.0	.0	8	6840
69/70	21.6	16.3	19.2	15.3	4.3	1.0	.4	.1	.1	.7	3.1	20.8	12	6702
67/68	13.3	7.9	12.0	20.7	9.7	3.6	1.6	.4	.5	2.3	10.9	24.7	17	7023
65/66	9.8	3.4	9.6	15.6	13.2	9.8	3.4	2.3	2.1	5.6	18.1	18.6	12	6422
63/64	3.0	2.1	3.0	14.7	16.0	7.9	5.8	6.3	3.7	11.4	22.1	10.9	10	7203
61/62	.8	.7	1.3	5.1	13.1	6.1	5.2	4.9	3.6	13.8	14.2	4.1	4	3449
59/60	.3	.4	.6	6.2	13.7	11.3	6.1	4.9	6.5	15.1	11.9	2.3	3	3335
57/58	.2	.1	.3	5.8	11.8	13.3	7.7	6.3	10.7	14.6	8.6	1.2	2	3447
55/56	.1	.1	.3	1.4	7.3	17.6	13.1	11.9	20.5	15.6	3.4	.3	1	6209
53/54	.0	.0	.1	.3	3.8	14.6	16.9	17.1	18.7	8.3	2.3	.3	0	3331
51/52	.0	.0	.0	.1	1.7	8.8	18.0	16.9	17.4	4.7	1.4	.1	0	4413
49/50	.0	.0	.0	.1	1.2	4.4	13.1	12.8	8.4	3.3	.3	.1	0	3041
47/48	.0	.0	.0	.0	.2	1.6	3.0	9.9	5.1	1.6	.2	.0	0	1622
45/46	.0	.0	.0	.0	.2	1.4	2.5	4.4	2.4	.7	.1	.0	0	809
43/44	.0	.0	.0	.0	.0	.3	.8	.8	.7	.1	.0	.0	0	188
41/42	.0	.0	.0	.0	.0	.1	.3	.2	.2	.0	.0	.0	0	49
39/40	.0	.0	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	0	17
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	2
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
15	.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
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	8777	6281	6919	7770	7333	7285	7182	7124	6219	3468	6003	3374	79442	100.0
MEAN	70.8	71.3	70.3	66.0	61.3	57.3	54.6	53.8	54.9	58.3	62.8	67.2	62.4	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1012	1012	1013	1013	1013	1012	1013	1012	1013	3699
FEB	1013	1013	1013	1012	1014	1014	1013	1012	1013	3940
MAR	1013	1013	1013	1013	1013	1013	1013	1014	1013	4430
APR	1017	1016	1016	1015	1017	1016	1016	1015	1016	3238
MAY	1017	1017	1017	1017	1017	1017	1016	1016	1017	3006
JUN	1017	1017	1017	1016	1017	1017	1016	1016	1017	4318
JUL	1020	1020	1019	1019	1019	1019	1019	1018	1019	4364
AUG	1019	1019	1018	1019	1019	1019	1018	1018	1019	4643
SEP	1018	1019	1017	1018	1019	1019	1018	1018	1018	3398
OCT	1017	1017	1016	1016	1017	1017	1016	1016	1017	3484
NOV	1014	1014	1014	1014	1013	1014	1014	1014	1014	3702
DEC	1012	1013	1012	1012	1013	1013	1012	1011	1013	2906
ANN	1016	1016	1016	1015	1016	1016	1016	1015	1016	49659
OBS	8934	4443	6664	2705	9367	7018	7603	2721		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	993	1000	1003	1007	1013	1016	1022	1026	1033
FEB	994	1001	1003	1010	1013	1017	1022	1025	1033
MAR	994	1001	1003	1011	1015	1019	1024	1026	1032
APR	997	1001	1006	1012	1017	1020	1026	1028	1032
MAY	992	1000	1006	1013	1017	1021	1027	1030	1033
JUN	993	999	1004	1012	1017	1022	1028	1031	1034
JUL	993	1001	1007	1015	1019	1024	1029	1033	1038
AUG	993	1001	1006	1014	1019	1023	1029	1034	1040
SEP	996	1000	1006	1014	1018	1023	1029	1033	1038
OCT	994	1000	1006	1013	1017	1021	1027	1031	1037
NOV	994	999	1004	1011	1015	1018	1023	1026	1030
DEC	992	999	1003	1009	1013	1016	1022	1025	1031

PERIOD: (PRIMARY) 1906-1974
(OVER-ALL) 1971-1976

JANUARY

AREA 0013 BAHIA BLANCA
39.85 57.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	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	BLWG DUST	SPRAY DUST	NO SIG NEA
N	2.8	.0	.0	.0	.0	.0	.0	2.8	2.3	3.2	6.3	.9	1.8	.0	.0	82.3
NE	1.4	.0	.0	.0	.0	.0	.0	1.4	3.2	2.1	2.8	.0	2.8	.0	.0	87.7
E	.0	.0	.0	.0	.0	.0	.0	.0	2.3	2.3	.0	.0	.0	.0	.0	93.3
SE	4.9	.0	.0	.0	.0	.0	.0	4.9	7.8	2.9	.0	.0	.0	.0	.0	84.3
S	1.9	.0	.0	.0	.0	.0	.0	1.9	.0	1.3	.0	.0	.0	.0	.0	98.8
SW	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	97.8
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	.0	.0	.0	.0	94.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	2.0	.0	.0	.0	.0	97.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	93.3
TOT PCT	1.3	.0	.0	.0	.0	.0	.0	1.3	2.2	1.7	2.6	.2	.9	.0	.0	91.1
TOT OBS:	461															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	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	BLWG DUST	SPRAY DUST	NO SIG NEA
0600	.8	.0	.0	.0	.0	.0	.0	.8	4.7	2.4	3.1	.0	.8	.0	.0	88.2
0609	4.2	.0	.0	.0	.0	.0	.0	4.2	.0	6.3	4.2	.0	.0	.0	.0	83.3
1209	.7	.0	.0	.0	.0	.0	.0	.7	2.2	.0	1.3	.7	2.2	.0	.0	92.3
1809	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	2.6	.0	.9	.0	.0	94.8
TOT PCT	1.3	.0	.0	.0	.0	.0	.0	1.3	2.3	1.9	2.8	.2	1.1	.0	.0	90.4
TOT OBS:	471															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.1	7.6	9.9	2.4	.1	.0	21.1	12.9	18.0	24.4	27.0	29.1	20.3	18.4	22.8	16.8
NE	1.0	6.3	3.3	1.1	.0	.0	13.7	11.3	13.8	18.9	14.4	13.3	11.3	9.1	16.9	13.3
E	.8	2.6	2.3	.3	.0	.0	5.8	10.8	8.2	3.8	3.3	3.6	3.2	3.8	9.4	3.2
SE	.8	4.6	2.8	.4	.1	.0	8.7	10.9	10.7	9.1	6.1	8.9	8.3	8.8	3.1	9.1
S	1.2	3.6	4.0	1.1	.0	.0	11.8	11.0	13.1	13.4	9.1	10.1	8.3	13.7	3.3	13.3
SW	.3	3.0	4.9	1.4	.2	.0	12.1	13.2	13.6	6.1	13.7	8.3	12.4	12.1	18.6	13.6
W	.3	3.6	3.1	1.4	.1	.0	7.9	12.3	7.1	4.0	7.8	3.1	8.1	10.7	7.7	10.8
NW	1.0	3.6	7.3	1.4	.2	.0	13.6	12.7	7.7	17.7	9.8	17.7	21.8	19.8	12.7	11.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2						3.2		3.8	.8	3.0	1.9	4.0	3.3	3.3	4.2
TOT OBS	136	637	636	143	12	0	1604	11.7	287	184	99	188	303	317	114	163
TOT PCT	9.7	41.0	39.7	9.9	.7	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40					00	03	06	09	12	15	18	21
N	4.3	9.8	6.3	.3	.0	21.1	12.9	20.3	28.3	19.4	19.3					
NE	4.0	6.7	2.9	.2	.0	13.7	11.3	18.9	13.1	10.2	14.8					
E	1.3	3.4	.9	.1	.0	5.8	10.8	7.3	3.4	4.3	8.9					
SE	2.8	4.2	1.4	.3	.0	8.7	10.9	10.1	8.6	8.7	6.6					
S	2.9	2.2	2.3	.4	.0	11.8	11.0	16.3	9.7	11.1	11.3					
SW	2.4	3.6	3.3	.4	.0	12.1	13.2	10.9	9.9	12.3	13.7					
W	2.2	3.6	1.9	.3	.0	7.9	12.3	6.0	6.0	9.4	9.4					
NW	3.3	7.3	4.2	.8	.0	13.6	12.7	11.3	14.7	20.7	12.1					
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	3.2					3.2		2.7	2.3	3.7	3.9					
TOT OBS	430	735	372	47	0	1604	11.7	431	237	617	279					
TOT PCT	28.1	45.8	23.2	2.9	.0	100.0		100.0	100.0	100.0	100.0					

PERIOD: (PRIMARY) 1906-1976
(OVER-ALL) 1871-1976

JANUARY

AREA 0013 BAHIA BLANCA
29.65 57.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	2.7	7.1	43.0	39.2	7.5	.4	.0	11.3	100.0	491	
0600	2.3	7.0	42.8	36.6	10.9	.4	.0	11.9	100.0	297	
1200	3.7	6.8	28.7	39.1	10.7	1.0	.0	11.9	100.0	617	
1800	3.9	4.2	40.9	44.4	5.4	1.1	.0	11.4	100.0	279	
TOT	32	104	687	696	43	12	0	11.7		1604	
PCT	3.2	6.5	41.0	39.7	8.9	.7	.0		100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL CLOUD OBS	MEAN COVER
NE	6.3	1.6	4.1	2.9		4.0
E	4.4	.7	1.2	.9		3.1
SE	2.6	1.5	.8	.8		3.0
S	3.9	1.5	1.7	1.4		3.3
SW	4.6	4.9	4.1	1.8		3.3
W	3.0	1.5	1.5	.5		2.8
NW	6.7	.7	3.5	.5		2.9
VAR	.0	.0	.0	.0		.0
CALM	1.8	.0	1.0	.5		3.0
TOT OBS	178	64	97	36	398	3.5
TOT PCT	45.1	16.2	24.6	14.2	100.0	

TABLE 6

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

WIND DIR	000	100	300	600	1000	2000	3000	5000	6000+	NH <5/8 ANY HGT	TOTAL OBS
N	.4	.0	.4	.5	1.6	2.6	.9	1.1	.0	.4	14.9
NE	.3	.0	.6	.8	1.4	.7	.6	.1	.3	.3	10.1
E	.0	.0	.0	.3	.4	.7	.9	.0	.0	.0	5.6
SE	.0	.0	.0	.1	.3	.3	.9	.0	.0	.0	4.4
S	.0	.0	.2	.2	.8	.5	.0	.0	.0	.3	6.6
SW	.3	.0	.1	1.0	1.3	1.6	.0	.0	.0	.0	13.2
W	.0	.0	.0	.0	.3	.3	.9	.0	.0	.0	7.2
NW	.0	.0	.0	.0	.4	.8	.8	.0	.0	.1	9.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.3	.8	.0	.0	.0	.0	2.3
TOT OBS	4	0	5	11	27	34	15	5	1	4	291
TOT PCT	1.0	.0	1.3	2.8	6.8	8.6	3.5	1.3	.3	1.0	75.7

TABLE 7

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

CEILING (FEET)	VSBY (NH)								
	>10	>5	>2	>1	>1/2	>1/4	>8000	>0	
>OR 36500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
>OR 25000	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
>OR 18000	4.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	
>OR 12000	7.8	13.1	14.1	14.1	14.3	14.3	14.3	14.3	
>OR 8000	11.0	19.1	20.6	21.1	21.4	21.4	21.4	21.4	
>OR 6000	13.0	21.9	23.4	23.9	24.1	24.1	24.1	24.1	
>OR 4000	13.0	22.9	24.4	24.9	25.1	25.1	25.1	25.1	
>OR 3000	13.0	22.9	24.4	24.9	25.1	25.1	25.1	25.1	
>OR 2000	13.0	22.9	24.4	24.9	25.1	25.1	25.1	25.1	
>OR 1000	13.0	22.9	24.4	24.9	25.1	25.1	25.1	25.1	
>OR >0	13.0	22.9	24.4	24.9	25.1	25.1	25.1	25.1	
TOTAL	54	91	97	99	100	101	101	101	

TOTAL NUMBER OF OBS: 398

PCT FREQ NH <5/8: 74.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
39.7	7.6	13.1	9.8	6.7	3.1	6.7	5.7	11.0	1.0	420

PERIOD: (PRIMARY) 1904-1976
(OVER-ALL) 1871-1976

JANUARY

AREA 0013 BAHIA BLANCA
39.65 57.3W

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
	TOT %	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
	TOT %	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.7
	TOT %	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.7
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.7	.2	.2	.7	.4	.4	.0	.0	.0	.0	.0	3.7
	TOT %	1.7	.2	.2	.7	.4	.4	.0	.0	.0	.0	.0	3.7
5<10	PCP	.2	.2	.0	.3	.2	.0	.0	.0	.0	.0	.0	.9
	NO PCP	4.2	4.2	.3	.9	1.9	2.2	2.0	2.2	.0	.2	.2	18.0
	TOT %	4.4	4.4	.3	1.1	2.1	2.2	2.0	2.2	.0	.2	.2	18.9
10+	PCP	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	NO PCP	18.2	10.3	6.3	3.8	3.9	13.3	5.8	8.9	.0	3.0	.2	73.4
	TOT %	18.6	10.3	6.3	3.8	3.9	13.3	5.8	8.9	.0	3.0	.2	73.4
TOT OBS													460
TOT PCT		23.6	13.3	7.0	3.6	8.4	17.9	7.9	11.1	.0	3.3	100.0	

TABLE 9

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

VSBY (MM)	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	.0
	4-10	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
	11-21	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	22+	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	TOT %	.3	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.7
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	11-21	.2	.0	.1	.0	.0	.0	.0	.2	.0	.0	.0	.5
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.4	.0	.1	.0	.0	.0	.0	.2	.0	.0	.0	.7
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.3	.0	.0	.2	.2	.4	.0	.0	.0	.0	.0	1.3
	11-21	.6	.2	.3	.0	.2	.0	.0	.0	.0	.0	.0	1.3
	22+	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.9
	TOT %	1.3	.3	.3	.7	.4	.4	.0	.0	.0	.0	.0	3.7
5<10	0-3	.1	.3	.1	.0	.0	.0	.0	.0	.0	.2	.0	.7
	4-10	1.1	1.3	.1	.3	1.8	1.1	.7	1.1	.0	.0	.0	7.7
	11-21	2.0	2.0	.3	.3	.4	.7	.9	.6	.0	.0	.0	7.3
	22+	.9	.4	.0	.0	.2	.2	.2	.2	.0	.0	.0	2.0
	TOT %	4.1	4.2	.3	1.1	2.2	2.0	1.8	2.0	.0	.2	.0	17.9
10+	0-3	.4	.2	.0	.2	.2	.3	.0	.0	.0	2.9	.0	4.2
	4-10	3.4	4.1	2.2	1.8	3.8	3.8	2.1	3.7	.0	.0	.0	28.8
	11-21	7.3	3.3	3.4	1.8	3.8	6.7	3.4	3.4	.0	.0	.0	37.2
	22+	2.0	.8	.4	.0	.0	1.9	.4	.3	.0	.0	.0	6.6
	TOT %	13.3	10.3	6.0	3.8	8.4	14.7	5.9	9.4	.0	2.9	.0	76.7
TOT OBS													346
TOT PCT		21.5	15.1	7.1	5.5	11.0	17.0	8.1	11.6	.0	3.1	100.0	

JANUARY

PERIOD: (PRIMARY) 1966-1976
(OVER-ALL) 1871-1976

AREA 0013 BAHIA BLANCA
39.65 97.34

TABLE 10

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

HR (GMT)	000	150	300	600	1000	2000	3500	5000	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	.9	.0	3.4	4.3	9.4	10.3	1.7	.0	.0	29.9	70.1	117
0600	2.9	.0	.0	2.9	1.5	8.8	2.9	2.9	.0	22.1	77.9	68
1200	.0	.0	.0	2.5	9.0	9.0	4.9	1.6	.8	28.8	69.7	122
1800	1.0	.0	1.0	1.0	4.8	4.8	2.9	1.0	1.0	18.3	81.7	104
TOT	4	0	5	11	28	34	13	5	2	106	305	411
PCT	1.0	.0	1.2	2.7	6.8	8.3	3.2	1.2	.5	1.0	74.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	1.3	.0	1.3	3.3	25.3	68.7	150
0600	1.8	.9	.9	4.5	23.4	68.5	111
1200	.0	.0	.6	1.2	13.5	84.7	103
1800	.0	.0	.8	.8	.0	84.2	132
TOT	4	1	5	20	101	423	596
PCT	.7	.2	.9	3.6	16.2	76.4	100.0

TABLE 12

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

HR (GMT)	<150 <30VD	<6.0 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
0000	.9	4.4	16.8	16.8	66.4	113
0600	3.1	4.7	7.8	15.6	76.6	64
1200	.0	.0	3.3	26.7	70.0	120
1800	.0	.0	3.0	14.9	82.2	101
TOT	3	8	31	76	291	398
PCT	.8	2.0	7.8	19.1	73.1	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	.5	.0	1.0	.0	.0	3	1.3
70/74	.0	.0	.0	.0	1.5	2.1	3.4	2.1	18	9.3
65/69	.0	.0	.0	.5	1.8	8.2	13.4	10.3	66	34.0
60/64	.0	.0	.0	.5	3.2	7.2	11.3	10.8	68	35.1
55/59	.0	.0	.0	.0	1.5	3.6	9.3	4.1	38	18.6
50/54	.0	.0	.0	.0	.0	.0	.0	1.5	3	1.5
TOTAL	0	0	0	3	19	43	73	56	194	100.0
PCT	.0	.0	.0	1.5	9.8	22.2	37.6	28.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.0	.0	.0	.5	.0	1.0	.0	.0
70/74	4.0	1.4	.4	1.0	.0	.3	.0	1.9	.0	.0
65/69	9.7	4.4	4.6	1.0	3.4	3.4	3.2	4.4	.0	.0
60/64	3.3	8.0	2.1	2.6	4.0	4.9	3.9	3.4	.0	1.0
55/59	4.8	.9	1.8	3.7	3.1	3.4	.9	.1	.0	.0
50/54	.0	.5	.0	.5	.0	.5	.0	.0	.0	.0
TOTAL	23.8	15.2	8.9	8.9	10.4	13.1	8.0	10.8	.0	1.0

TABLE 15

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

HR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	75	73	71	63	54	50	45	62.4	444
0600	74	75	70	62	53	49	43	61.8	234
1200	83	77	73	64	56	52	44	64.2	383
1800	86	81	75	67	58	54	44	66.9	232
TOT	86	77	73	64	55	50	44	63.8	1396

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.0	3.9	19.6	41.2	35.3	85	51		
0600	.0	2.1	6.4	19.1	31.9	40.4	65	47		
1200	.0	2.0	12.0	16.0	46.0	24.0	53	50		
1800	.0	2.0	16.0	34.0	32.0	16.0	79	50		
TOT	0	3	19	44	75	57	81	198		

JANUARY

PERIOD: (PRIMARY: 1966-1976)
(OVER-ALL: 1971-1976)

AREA 0613 SANTA BLANCA
39.05 57.30

TABLE 17

PCT PRG OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF PDC (INIT-DCT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49	53	57	61	65	69	73	77	81	85	TOT	%	NO
	52	56	60	64	68	72	76	80	84	88		PDC	PDC
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.2	.2
16/16	.0	.0	.0	.0	.2	.0	.7	.2	.2	.0	6	.6	1.6
11/13	.0	.0	.0	.2	.5	.2	1.2	1.2	.0	.2	15	.6	3.0
9/10	.0	.0	.5	.2	.2	1.2	1.0	.0	.0	.0	15	.6	3.0
7/8	.0	.0	.0	.2	.2	3.1	2.1	.0	.2	.0	25	.2	5.7
6	.0	.0	.0	.5	.5	1.9	.2	.0	.0	.0	13	.6	3.1
5	.0	.0	.7	1.0	1.9	4.0	.7	.0	.0	.0	30	.2	8.8
4	.0	.2	.3	.2	4.3	1.0	.0	.0	.0	.2	29	.2	8.4
3	.0	.5	.2	1.0	3.0	2.4	.2	.2	.0	.0	35	.2	10.1
2	.7	.7	.5	3.1	6.5	1.5	.2	.0	.0	.0	43	.6	10.2
1	.0	.2	.5	3.1	3.0	1.4	.2	.0	.0	.0	39	.2	9.0
0	.0	.0	2.1	3.8	3.6	.0	.5	.0	.0	.0	42	.6	10.0
-1	.0	.2	.2	3.3	2.4	.2	.0	.0	.0	.0	27	.5	5.9
-2	.0	.2	1.4	2.4	1.4	.5	.0	.0	.0	.0	25	.2	5.7
-3	.0	.2	1.9	1.4	1.0	.0	.0	.0	.0	.0	19	.2	4.3
-4	.0	.2	1.7	2.1	.5	.0	.0	.0	.0	.0	19	.6	4.5
-5	.0	.0	1.2	.7	.7	.0	.0	.0	.0	.0	11	.2	2.4
-6	.0	.5	1.0	.2	.0	.0	.0	.0	.0	.0	7	.2	1.4
-7/-8	.2	.5	.7	.2	.0	.2	.0	.0	.0	.0	8	.2	1.7
-9/-10	.7	.2	.2	.2	.0	.0	.0	.0	.0	.0	4	.6	1.0
TOTAL	9		54	101	124	78	71	1.7	1.4	1	421	3.1	498
PCT	.7	3.8	12.8	24.0	29.5	18.8	7.1	1.7	1.4	.2	100.0	3.1	96.9

PERIOD: (OVER-ALL) 1968-1976

TABLE 18

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

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	2.4	.4	.0	.0	.0	2.7	.4	1.8	.0	.0	.0	.0	2.1
1-2	.0	1.0	1.0	.0	.0	.0	2.0	.0	1.1	.7	.0	.0	.0	1.8
3-4	.0	1.3	3.1	.4	.0	.0	4.8	.0	2.3	3.2	.0	.0	.0	5.5
5-6	.0	1.0	3.8	.7	.0	.0	5.5	.0	.1	1.8	.4	.0	.0	2.3
7	.0	.0	2.6	1.1	.0	.0	3.7	.0	.0	2.0	.7	.0	.0	2.7
8-9	.0	.0	.3	.4	.0	.0	.4	.0	.0	.4	.7	.0	.0	1.1
10-11	.0	.0	.7	1.3	.0	.0	2.0	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.3	12.1	4.3	.0	.0	22.9	.4	5.3	8.2	2.2	.0	.0	16.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	1.1	.4	.0	.0	.0	.0	.0	.4
1-2	.0	1.1	.0	.0	.0	.0	1.0	.0	.1	.7	.0	.0	.0	1.8
3-4	.0	1.2	1.3	.0	.0	.0	2.5	.0	1.1	.7	.0	.0	.0	4.4
5-6	.7	.4	.6	.0	.0	.0	1.0	.0	.6	.7	.0	.0	.0	1.1
7	.0	.4	2.0	.4	.0	.0	2.7	.0	.0	.4	.4	.0	.0	.7
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4	.4	.0	.0	.0
10-11	.2	.0	.0	.4	.0	.0	.4	.0	.0	.0	.1	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	4.3	.7	.0	.0	8.0	.4	1.6	2.1	.4	.0	.0	4.3

PERIOD: (OVER-ALL) 1963-1976

JANUARY

AREA 0013 SANIA BLANCA
39.65 97.34

TABLE 10 (CONT)

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.6	.0	.0	.0	.0	1.6	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	1.8	.4	.0	.0	.0	2.2	.0	2.0	.4	.0	.0	.0	3.0
3-4	.0	1.7	.7	.0	.0	.0	2.4	.0	2.0	1.3	.0	.0	.0	4.3
5-6	.0	.4	1.0	.3	.0	.0	1.6	.0	.4	.6	.1	.0	.0	1.3
7	.0	.0	.3	.4	.0	.0	.6	.0	.4	1.5	.4	.0	.0	2.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.4	.0	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.4	.0	.0	1.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.5	2.3	.9	.0	.0	6.6	.0	7.8	3.9	.8	.0	.0	10.5

HGT	M						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.1	.4	.0	.0	.0	1.3	.0	1.0	.0	.0	.0	.0	1.6	
1-2	.0	2.1	.7	.0	.0	.0	2.1	.0	1.1	1.3	.0	.0	.0	2.6	
3-4	.0	.7	1.9	.0	.0	.0	3.0	.0	1.8	2.0	.0	.0	.0	3.9	
5-6	.0	.3	.4	.0	.0	.0	.6	.0	.0	.4	.0	.0	.0	.4	
7	.0	.4	.4	.0	.0	.0	.7	.0	.0	1.4	.0	.0	.0	1.4	
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
10-11	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.4	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.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	.4	.0	.0	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.4	4.0	.7	.0	.0	9.2	.0	4.9	3.7	.7	.4	.0	11.7	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.3	9.9	.7	.0	.0	.0	13.8	13.8
1-2	.0	11.6	3.9	.0	.0	.0	15.5	15.5
3-4	.0	13.0	14.4	.7	.0	.0	28.2	28.2
5-6	.0	2.3	9.2	1.4	.0	.0	13.0	13.0
7	.0	1.4	10.9	2.8	.0	.0	15.1	15.1
8-9	.0	.0	2.1	1.4	.4	.0	3.9	3.9
10-11	.0	.0	1.8	2.1	.0	.0	3.9	3.9
12	.0	.0	.4	.7	.0	.0	1.1	1.1
13-16	.0	.4	1.4	1.8	.0	.0	3.6	3.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.3	38.7	44.7	10.9	.4	.0	100.0	284

PERIOD: (OVER-ALL) 1950-1976

TABLE 10

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.8	8.6	19.3	10.7	6.1	1.3	1.8	.3	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	170	4
6-7	.0	.3	7.7	4.3	7.4	1.2	1.3	.3	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80	6
8-9	.0	.0	3.1	1.2	2.3	1.2	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	6
10-11	.0	1.8	.3	.3	.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	4
12-13	.0	.0	.3	.9	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	4
>13	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDEX	2.7	1.3	1.2	.9	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	2
TOTAL	21	40	104	60	37	19	12	3	10	0	0	0	0	0	0	0	0	0	0	324	3
PCT	6.4	12.3	31.9	18.4	11.3	5.8	3.7	.9	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1968-1976
(OVER-ALL) 1871-1976

AREA 0013 SAMIA BLANCA
39.6S 57.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRIZ	FRIZ PCPN	SNOW	OTHER FRIZ PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGS PCPN	FGS WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG WEA
N	.9	.5	.0	.0	.0	.0	.0	1.4	1.1	1.5	4.3	.0	1.0	.0	91.0
NE	.8	1.2	.0	.0	.0	.0	.0	2.1	1.2	.0	3.9	.0	.0	.0	90.8
E	.0	1.2	.0	.0	.0	.0	.0	1.2	2.4	2.4	9.5	.0	1.2	.0	83.4
SE	4.3	19.3	.0	.0	.0	.0	.0	21.8	.7	.0	5.6	.0	1.4	.0	70.4
S	2.0	4.6	.9	.0	.0	.0	.0	7.4	.9	1.1	.0	.0	.0	.0	91.7
SW	.0	.9	.2	.0	.0	.0	.0	1.1	7.4	.7	.4	.0	.0	3.8	86.3
W	.0	.0	.0	.0	.0	.0	.0	.0	1.6	1.1	3.2	.0	.0	3.7	90.5
NW	1.5	.0	.0	.0	.0	.0	.0	1.5	1.5	2.2	.0	.0	1.5	.0	93.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	7.7	.0	.0	.0	.0	.0	7.7	.0	.0	3.8	.0	.0	.0	88.5
TOT PCT	1.0	2.1	.1	.0	.0	.0	.0	3.3	2.1	1.0	3.3	.0	.5	.8	89.1
TOT OBS:	769														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRIZ	FRIZ PCPN	SNOW	OTHER FRIZ PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGS PCPN	FGS WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG WEA
0600	1.9	2.4	.0	.0	.0	.0	.0	4.3	2.4	1.9	5.2	.0	.0	.5	86.7
0600	.6	1.9	.0	.0	.0	.0	.0	3.1	1.2	2.3	1.2	.0	.0	1.2	90.7
1801	1.0	1.4	.0	.0	.0	.0	.0	2.4	1.9	.9	3.3	.0	1.0	1.0	88.0
1801	.3	3.0	.0	.0	.0	.0	.0	3.3	3.0	.0	2.0	.0	1.0	.9	90.0
TOT PCT	1.0	2.2	.1	.0	.0	.0	.0	3.3	2.2	1.2	3.6	.0	.5	.8	88.7
TOT OBS:	782														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT PREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.9	7.3	10.0	2.2	.2	.0	20.3	13.2	13.9	21.4	30.6	22.7	26.4	14.7	19.0	17.9	
NE	1.0	6.8	7.3	.8	.0	.0	19.9	11.9	19.9	15.4	15.3	13.2	13.2	12.7	23.6	12.7	
E	.6	3.0	1.6	.2	.1	.0	5.3	9.7	5.8	5.6	3.9	3.7	4.4	6.6	6.0	3.8	
SE	1.0	4.3	2.4	.7	.1	.0	8.8	10.6	10.3	10.0	6.6	8.0	7.3	9.7	7.7	8.9	
S	.7	3.1	6.4	2.0	.2	.0	14.4	13.3	14.1	12.4	14.8	14.0	11.6	18.0	13.3	16.6	
SW	.8	4.4	4.3	1.7	.3	.1	11.8	14.6	12.6	11.0	7.9	11.0	12.4	9.9	19.0	11.1	
W	.7	3.1	2.1	.6	.0	.0	6.3	10.9	7.2	4.6	3.4	6.6	6.3	8.8	4.4	8.4	
NW	1.0	4.7	3.1	1.4	.2	.0	12.8	13.0	8.4	14.3	8.3	13.6	14.8	16.1	7.2	13.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.8						3.8	.0	4.3	3.1	7.0	3.2	3.3	3.4	1.6	3.0	
TOT OBS	241	879	897	217	30	4	2268	12.1	423	234	186	221	339	377	192	236	
TOT PCT	10.6	38.8	39.4	9.6	1.3	.2	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT PREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	3.3	10.6	3.6	.7	.0	20.3	13.2	17.0	26.4	20.7	18.4
NE	3.4	8.6	3.8	.2	.0	19.9	11.9	19.3	14.3	13.0	17.6
E	2.1	2.6	.6	.2	.0	3.3	9.7	3.8	3.8	3.3	3.0
SE	2.8	4.6	1.1	.3	.0	8.8	10.6	10.2	7.4	8.6	8.4
S	2.8	6.8	4.0	.7	.1	14.4	13.3	13.3	14.4	14.7	13.2
SW	2.2	3.4	2.9	.9	.3	11.8	14.6	12.1	9.6	11.2	14.7
W	2.2	3.0	1.0	.3	.0	6.3	10.9	6.3	3.1	7.3	6.6
NW	2.3	6.4	3.3	.6	.0	12.8	13.0	10.3	12.3	13.3	11.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.8					3.8	.0	4.6	4.9	3.4	2.3
TOT OBS	373	1091	309	86	9	2268	12.1	637	407	776	428
TOT PCT	28.3	48.1	22.4	3.6	.4	100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1908-1976
(OVER-ALL) 1971-1976

AREA 0013 SAMIA BLANCA
39.6S 37.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000Z	4.6	6.5	39.5	37.7	10.0	1.5	.3	12.0	100.0	687	
0400Z	4.9	4.4	35.9	43.5	9.8	1.5	.0	12.6	100.0	407	
1201Z	3.4	8.5	37.5	39.0	10.2	1.3	.1	12.1	100.0	776	
1802Z	2.3	6.5	43.0	39.5	7.5	.9	.2	11.8	100.0	428	
TOT	86	195	879	897	217	30	.4	12.1		2268	
PCT	3.8	8.6	38.8	39.6	9.6	1.3	.2		100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	13.3	1.2	4.0	1.8		2.3
E	2.1	.6	.7	1.1		3.5
SE	1.7	.4	.6	2.2		4.8
S	6.3	1.4	3.0	1.2		3.0
SW	4.0	3.3	6.5	2.3		4.5
W	5.6	1.0	1.5	.2		2.4
NW	4.4	1.2	2.4	.9		3.0
VAR	.0	.0	.0	.0		.0
CALM	2.6	.2	.6	1.0		3.0
TOT OBS	319	78	156	73	626	3.0
TOT PCT	31.0	12.5	24.9	11.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/M) AND OCCURRENCE OF NM <S/B BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <S/B ANY HGT	TOTAL OBS
.1	.0	.0	.4	.6	1.4	.7	.2	.6	.4	18.9	
.2	.0	.2	.4	1.1	2.0	.2	.0	.0	.1	18.1	
.0	.0	.0	.4	.6	.2	.0	.0	.0	.2	3.1	
.5	.0	.0	.2	.6	.8	.2	.0	.0	.0	2.6	
.0	.0	.0	.5	1.1	1.7	.7	.2	.2	.0	7.8	
.0	.0	.0	.7	2.0	3.1	.9	.0	.0	.4	8.9	
.0	.0	.0	.1	.3	.5	.0	.0	.0	.2	4.8	
.0	.0	.0	.2	.4	.5	.2	.2	.2	.0	6.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.3	.0	.0	.0	.2	.6	.9	.0	.0	.0	2.9	
.7	.0	.1	.8	4.3	6.8	2.2	.7	.8	.8	48.0	
1.1	.0	.2	2.9	6.9	10.9	3.9	.3	1.1	1.3	71.9	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >S/B) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>8	>2	>1	>1/2	>1/4	>50YD	>0
>8000	1.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1
>6000	1.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5
>4000	2.5	5.9	5.9	5.9	5.9	5.9	5.9	5.9
>2000	8.0	15.2	16.8	16.8	17.0	17.0	17.0	17.0
>1000	11.6	20.8	23.4	23.9	24.0	24.0	24.0	24.0
>800	12.7	23.9	26.8	27.0	27.1	27.1	27.1	27.1
>600	12.9	24.0	26.6	27.1	27.3	27.3	27.3	27.3
>400	12.9	24.0	26.6	27.1	27.3	27.3	27.3	27.3
>0	12.9	24.0	27.0	27.8	28.1	28.3	28.6	28.6
TOTAL	79	147	165	170	172	173	173	173

TOTAL NUMBER OF OBS: 612

PCT FREQ NM <S/B: 71.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
40.1	9.2	8.0	8.0	5.3	5.3	8.0	4.8	10.0	1.2	673

FEBRUARY

PERIOD: (PRIMARY) 1908-1976
(OVER-ALL) 1871-1976

AREA 0013 BAHIA BLANCA
39.6S 57.6W

TABLE 8

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

VSBY (NH)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.1	.3	.1	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.1	.2	.3	.1	.0	.0	.0	.0	.0	.0	.7	
1/2<1	PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.4	.0	.3	.0	.0	.0	.0	.0	.0	.7	
1<2	PCP	.1	.0	.0	.1	.1	.1	.0	.0	.0	.1	.7	
	NO PCP	.2	.1	.1	.2	.1	.0	.0	.0	.0	.0	.7	
	TOT %	.3	.1	.1	.3	.2	.1	.0	.0	.0	.1	1.3	
2<3	PCP	.1	.2	.0	.4	.3	.0	.0	.0	.0	.1	1.0	
	NO PCP	1.0	2.0	.1	.3	.4	.3	.3	.5	.0	.1	3.9	
	TOT %	1.1	2.1	.1	.8	.6	.3	.3	.5	.0	.2	4.4	
3<10	PCP	.1	.1	.1	.2	.4	.0	.0	.1	.0	.0	1.0	
	NO PCP	2.1	3.1	1.8	.7	3.1	4.3	2.0	4.0	.0	.8	23.9	
	TOT %	2.2	3.2	1.8	.9	3.5	4.3	2.0	4.1	.0	.8	30.9	
10+	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	10.1	11.0	3.2	2.1	7.0	9.3	3.8	4.2	.0	2.2	39.9	
	TOT %	10.1	11.0	3.2	2.1	7.1	9.6	3.8	4.2	.0	2.2	60.1	
TOT OBS													769
TOT PCT													25.9 19.8 5.9 4.6 11.4 14.3 6.2 8.8 .0 3.4 100.0

TABLE 9

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

VSBY (NH)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.1	.3	
	4-10	.3	.1	.1	.1	.0	.0	.0	.1	.0	.0	.7	
	11-21	.2	.2	.0	.0	.0	.0	.0	.1	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	.3	.2	.1	.0	.0	.0	.2	.0	.0	1.4	
1/2<1	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.5	
1<2	0-3	.2	.2	.1	.0	.0	.0	.0	.0	.0	.1	.6	
	4-10	.3	.1	.0	.0	.0	.1	.1	.2	.0	.0	.6	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.5	.3	.1	.2	.0	.1	.1	.2	.0	.0	1.6	
2<3	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.4	.5	.1	.3	.1	.1	.0	.3	.0	.0	1.8	
	11-21	.6	1.2	.0	.2	.3	.3	.2	.2	.0	.0	3.2	
	22+	.2	.2	.0	.2	.2	.2	.2	.1	.0	.0	1.2	
	TOT %	1.1	1.9	.1	.9	.7	.8	.5	.5	.0	.2	6.5	
3<10	0-3	.0	.4	.1	.1	.1	.1	.1	.1	.0	1.0	1.6	
	4-10	2.3	1.8	1.0	.4	1.1	1.4	1.3	1.8	.0	.0	10.9	
	11-21	4.2	3.6	.4	.4	1.6	1.6	.7	1.7	.0	.0	19.3	
	22+	.7	.5	.2	.3	.4	.4	.2	.3	.0	.0	3.6	
	TOT %	7.4	4.7	1.3	1.2	3.4	4.0	2.3	4.0	.0	1.0	39.4	
10+	0-3	.2	.2	.3	.2	.2	.1	.4	.1	.0	2.3	3.8	
	4-10	4.0	3.1	1.9	1.8	2.8	3.4	1.6	1.9	.0	.0	20.5	
	11-21	8.8	7.0	1.4	.9	4.2	3.8	1.4	3.2	.0	.0	30.8	
	22+	.2	.3	.1	.1	.4	1.4	.4	.5	.0	.0	3.4	
	TOT %	13.1	10.8	3.6	2.9	7.6	8.6	3.9	5.7	.0	2.3	60.3	
TOT OBS													973
TOT PCT													24.5 18.3 5.6 5.3 11.9 13.4 6.6 10.5 .0 3.7 100.0

FEBRUARY

PERIOD: (PRIMARY) 1908-1976
(OVER-ALL) 1871-1976

APEA 0013 SAMIA BLANCA
39.85 57.3V

TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000Z	2.2	.0	.0	3.4	7.3	12.9	1.7	.0	1.1	1.7	30.3	69.7	178
0600Z	1.8	.0	.0	1.8	1.8	2.7	3.4	.0	2.7	.0	16.2	83.8	111
1201Z	.3	.0	.0	3.8	6.0	14.3	3.3	.3	1.1	.3	30.2	69.8	182
1802Z	.3	.0	.3	2.2	9.7	9.2	3.8	.3	.0	2.2	28.6	71.4	183
TOT	8	0	1	19	44	69	22	2	7	8	180	476	656
PCT	1.2	.0	.2	2.9	6.7	10.3	3.4	.3	1.1	1.2	27.4	72.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
0000Z	1.3	.7	1.8	10.6	36.4	34.9	273
0600Z	1.3	.0	1.3	3.3	35.9	38.8	206
1201Z	1.9	.7	1.9	4.1	26.9	64.9	280
1802Z	1.2	.4	1.7	3.4	29.2	66.1	242
TOT	13	3	16	34	290	399	989
PCT	1.3	.3	1.6	3.3	29.3	66.6	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NH <5/8 AND 5+	TOTAL OBS
0000Z	2.3	2.3	17.4	20.3	62.2	172
0600Z	2.3	2.3	10.3	12.8	76.7	86
1201Z	.6	.6	6.9	24.9	68.2	173
1802Z	.6	1.7	9.9	21.0	69.1	181
TOT	8	10	69	127	416	612
PCT	1.3	1.6	11.3	20.8	69.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.3	.3	.6	.3	.0	.0	6	1.9
70/74	.0	.0	.6	.3	1.9	3.9	4.2	2.6	42	13.3
65/69	.0	.0	1.3	6.1	9.4	10.6	10.0	.0	110	37.4
60/64	.0	.0	.6	4.3	4.8	9.7	7.4	.0	84	27.1
55/59	.0	.0	1.0	2.9	4.3	6.3	2.9	.0	33	17.7
50/54	.0	.0	.0	.3	.3	.6	1.0	.0	7	2.3
TOTAL	0	0	3	11	31	78	99	74	310	100.0
PCT	.0	.0	1.0	3.5	10.0	25.2	31.9	23.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.2	1.0	.3	.0	.0	.3	.0	.1	.0	.0
70/74	3.2	2.9	.6	.0	1.3	1.0	1.0	1.3	.0	.0
65/69	11.0	6.7	3.1	1.9	3.2	1.3	2.4	6.3	.0	1.3
60/64	8.3	2.9	1.3	2.1	4.4	4.0	.6	3.3	.0	.3
55/59	3.1	.9	1.9	.9	1.9	6.9	1.3	.8	.0	.0
50/54	.8	.3	.0	.0	.0	1.0	.0	.0	.0	.0
TOTAL	28.7	14.8	7.2	4.7	11.0	14.7	9.3	11.8	.0	1.6

TABLE 15

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

HR	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	81	79	73	64	55	51	30	63.7	653
0600Z	78	75	72	64	54	52	49	63.3	408
1201Z	80	77	74	65	56	53	31	63.0	746
1802Z	86	82	78	68	57	54	33	67.3	401
TOT	86	79	75	65	55	52	49	64.8	2208

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	8.1	11.6	20.9	32.6	26.7	8.0	3.6	8.0	36
0600Z	.0	.0	11.6	24.6	37.7	26.1	8.2	6.9	8.0	69
1201Z	.0	4.9	18.3	18.3	32.9	25.6	8.1	8.2	8.1	82
1802Z	.0	3.7	23.2	26.6	23.6	20.7	7.8	8.2	8.2	82
TOT	0	14	32	72	102	79	80	31.9		

FEBRUARY

PERIOD: (PRIMARY) 1900-1976
(OVER-ALL) 1971-1976

AREA 0013 SANJA BLANCA
39.05 57.00

TABLE 17

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

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
14/16	.0	.0	.0	.0	.0	.1	.0	.1	.4	5	.0	.7
11/13	.0	.0	.0	.0	.0	.0	1.1	.9	.3	19	.0	2.5
9/10	.0	.0	.0	.1	.1	.7	1.3	1.1	.1	20	.1	3.3
7/8	.0	.0	.1	.3	.0	2.0	1.3	1.2	.0	30	.0	5.1
6	.0	.0	.0	.4	.7	1.1	.7	.0	.0	21	.0	2.8
5	.0	.3	.3	.0	1.2	2.3	2.0	.3	.0	49	.4	6.1
4	.0	.4	.0	.7	2.0	3.1	1.2	.1	.0	71	.1	9.3
3	.0	.1	.4	.4	3.1	3.7	.4	.0	.0	61	.3	7.8
2	.1	.3	.3	1.9	3.0	2.7	.0	.1	.0	82	.9	10.0
1	.0	.4	.8	.8	4.0	2.3	.0	.0	.0	62	.3	7.7
0	.3	.5	.9	1.9	6.3	.8	.0	.0	.0	80	.4	10.2
-1	.0	.1	.9	1.3	3.0	.5	.0	.0	.0	49	.1	6.4
-2	.0	.1	.7	4.3	2.7	.3	.0	.0	.0	60	.4	7.6
-3	.0	.4	1.3	2.3	1.7	.1	.0	.0	.0	44	.1	5.7
-4	.0	.1	1.2	1.3	1.1	.4	.0	.0	.0	31	.1	4.0
-5	.0	.3	1.2	2.0	.4	.0	.0	.0	.0	29	.0	3.9
-6	.0	.1	.4	.3	.0	.0	.0	.0	.0	6	.0	.8
-7/-8	.0	.3	.4	.3	.1	.0	.0	.0	.0	10	.0	1.3
-9/-10	.0	.3	.3	.0	.0	.0	.0	.0	.0	4	.0	.5
-11/-13	.0	.1	.0	.1	.0	.0	.0	.0	.0	2	.0	.3
-14/-16	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	3	30	69	139	243	167	81	29	9	752	27	725
PCT	.4	4.0	9.2	18.5	32.0	22.2	8.1	3.9	1.2	100.0	3.6	96.4

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

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

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.2	1.7	.2	.0	.0	.0	2.0	.1	.9	.1	.0	.0	.0	1.1
1-2	.0	2.7	1.0	.0	.0	.0	3.6	.0	1.3	.3	.0	.0	.0	1.8
3-4	.0	1.3	2.2	.2	.0	.0	6.7	.0	1.0	3.4	.0	.0	.0	6.4
5-6	.0	.2	4.0	.2	.0	.0	4.3	.0	.7	2.8	.2	.0	.0	3.7
7	.0	.2	1.9	.0	.0	.0	2.1	.0	.3	3.4	.0	.0	.0	3.7
8-9	.0	.0	.4	1.4	.0	.0	1.8	.0	.0	1.1	.4	.0	.0	1.5
10-11	.0	.0	.9	.6	.0	.0	1.5	.0	.0	1.2	.9	.0	.0	2.1
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.2	.2	.0	.0	.4	.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	.2	6.0	13.7	2.8	.0	.0	22.6	.1	6.2	14.4	1.9	.0	.0	20.7

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.4	1.6	.0	.0	.0	.0	1.0	.2	.4	.0	.0	.0	.0	1.6
1-2	.0	1.0	.4	.0	.0	.0	1.4	.0	.7	.4	.0	.0	.0	1.1
3-4	.0	.2	.6	.0	.0	.0	.9	.0	.9	.9	.0	.0	.0	1.8
5-6	.0	.2	.3	.0	.0	.0	.7	.0	.2	.2	.0	.0	.0	.4
7	.0	.2	.0	.0	.0	.0	.2	.0	.1	.3	.2	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.2	1.6	.0	.0	.0	4.2	.2	2.3	2.3	.2	.0	.0	3.0

PERIOD: (OVER-ALL) 1963-1976

FEBRUARY
TABLE 18 (CONT)

AREA 0013 BANIA B'ANCA
39.05 57.4M

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

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.0	.4	.0	.0	.0	.0	.0	.2	.7	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.9	.0	.0	.0	.0	.0	.0	2.1	.4	.0	.0	.0	.0	.0	2.5
3-4	.0	1.5	3.4	.2	.0	.0	.0	.0	3.1	2.5	.3	.0	.0	.0	.0	6.0
5-6	.0	.0	1.0	.2	.0	.0	.0	.0	.0	1.0	.4	.2	.0	.0	.0	1.6
7	.0	.0	.3	.0	.0	.0	.0	.0	.0	1.7	.4	.0	.0	.0	.0	2.1
8-9	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.4
10-11	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4
13-16	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.8	6.8	.9	.0	.0	.0	12.4	.2	5.9	5.8	2.2	1.1	.0	.0	15.3

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.2	.9	.0	.0	.0	.0	.0	1.1	.0	.4	.0	.0	.0	.0	.0	.4	
1-2	.0	.0	.2	.0	.0	.0	.0	.8	.2	1.3	1.4	.0	.0	.0	.0	2.9	
3-4	.0	1.4	.8	.2	.0	.0	.0	2.3	.0	.5	.7	.0	.0	.0	.0	1.2	
5-6	.0	.0	.9	.0	.0	.0	.0	.9	.0	.5	.5	.2	.0	.0	.0	1.2	
7	.0	.0	.3	.0	.0	.0	.0	.3	.0	.0	.9	.2	.0	.0	.0	1.1	
8-9	.0	.0	.3	.2	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.2	
10-11	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.0	.0	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.8	2.1	.6	.0	.0	.0	5.7	.2	2.8	3.9	.9	.0	.0	.0	7.8 93.7	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.8	6.0	.2	.0	.0	.0	14.0	
1-2	.2	11.5	5.2	.2	.0	.0	17.9	
3-4	.0	9.9	19.4	.9	.0	.0	30.2	
5-6	.0	1.7	11.7	1.3	.2	.0	14.9	
7	.0	.6	9.1	.9	.0	.0	10.6	
8-9	.0	.0	2.4	2.2	.0	.0	4.3	
10-11	.0	.0	2.4	2.4	.6	.0	3.4	
12	.0	.0	.0	.6	.0	.0	.5	
13-16	.0	.0	.2	1.3	.0	.0	1.5	
17-19	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.0	30.9	50.3	9.5	1.1	.0	100.0	463

PERIOD: (OVER-ALL) 1951-1976

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	7.5	18.5	7.4	3.8	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	227	3
6-7	.2	1.8	3.2	5.9	4.1	2.2	2.2	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	6
8-9	.0	.8	1.4	2.2	1.4	.8	1.1	.8	.9	.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	7
10-11	.0	.4	.9	.4	.7	.7	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	6
12-13	.0	.0	.5	.4	.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	6
13-19	.0	.0	.0	.2	.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
INDRY	3.9	6.6	3.0	2.3	3.1	2.2	.7	.0	1.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	130	4
TOTAL	4.0	9.4	16.5	10.4	8.0	2.5	2.7	.5	1.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	557	3
PCT	7.2	16.9	29.6	16.7	14.4	4.5	4.8	.9	2.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1910-1976
(COVER-ALL) 1860-1976

AREA 0013 SAHIA BLANCA
39.65 57.6M

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG WEA
N	.5	3.3	.3	.0	.0	.0	.0	4.2	1.7	1.9	7.1	.0	1.8	.0	83.2
NE	.8	3.3	1.3	.0	.0	.0	.7	6.2	.3	1.5	12.0	.7	.2	.0	79.3
E	3.2	1.4	.0	.0	.0	.0	.0	4.6	9.2	1.4	12.4	.6	.0	.0	73.9
SE	3.0	.7	4.0	.0	.0	.0	.0	3.0	1.3	1.3	2.7	.0	.0	.0	89.6
S	1.6	.3	.0	.0	.0	.0	.0	1.9	1.3	.6	1.9	.0	.0	.0	94.5
SW	1.6	2.3	.0	.0	.0	.0	.7	4.6	1.4	.7	1.4	.0	.0	.4	92.1
W	1.7	3.1	.0	.0	.0	.0	1.7	6.5	.8	3.9	2.3	.0	1.1	.0	87.9
NW	.0	.2	.0	.0	.0	.0	.9	1.2	.0	1.9	3.2	.0	.9	.0	91.8
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	1.1	1.1	6.4	.0	.0	.0	89.5
TOT PCT	1.2	1.8	.3	.0	.0	.0	.4	3.7	1.5	1.4	5.3	.1	.3	.1	88.0
TOT OBS:	1238														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG WEA
0000Z	1.6	3.2	.6	.0	.0	.0	.3	3.4	2.3	2.3	6.1	.0	.0	.0	84.4
0600Z	1.4	.0	.4	.0	.0	.0	.4	2.1	1.8	2.1	2.9	.0	.0	.0	91.1
1200Z	1.8	.9	.6	.0	.0	.0	.9	3.9	.6	1.3	7.8	.0	1.3	.3	83.6
1800Z	.6	2.8	.3	.0	.0	.0	.0	3.7	1.2	.0	4.3	.3	.3	.0	90.2
TOT PCT	1.4	1.8	.3	.0	.0	.0	.4	3.8	1.5	1.3	5.3	.1	.3	.1	87.7
TOT OBS:	1294														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.9	7.0	6.3	1.4	.0	.0	13.8	12.0	12.9	19.2	18.8	16.9	16.9	14.5	13.4	13.7
NE	1.3	6.0	4.1	.2	.0	.0	11.7	9.3	13.9	12.8	13.2	11.6	10.2	9.2	8.4	11.7
E	.6	3.2	1.1	.2	.0	.0	5.1	6.6	3.4	4.9	3.0	6.2	3.6	3.3	6.7	4.7
SE	.8	4.9	2.7	.3	.0	.0	8.8	9.7	9.7	11.5	4.7	10.2	7.5	10.2	6.9	10.6
S	1.0	6.9	7.4	1.8	.2	.1	17.3	12.9	19.6	17.1	18.0	13.7	18.1	13.9	18.6	17.0
SW	.9	4.9	6.9	2.4	.4	.2	13.2	14.8	17.6	12.8	14.9	12.2	13.6	12.9	20.3	12.0
W	.8	3.9	2.3	.3	.1	.2	8.0	12.1	7.2	6.3	6.3	8.7	7.4	10.0	8.8	10.4
NW	.6	3.4	3.1	1.3	.2	.0	12.6	12.8	7.5	12.8	7.0	14.9	14.2	17.2	8.8	17.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4						3.4	.0	3.2	2.4	10.1	3.6	6.4	3.2	6.1	2.3
TOT OBS	363	1229	1073	239	26	12	2944	11.4	361	286	317	279	360	366	311	264
TOT PCT	12.3	41.7	36.3	8.1	.9	.4	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40				00	03	06	09	12	15	18	21
N	3.4	8.6	3.4	.4	.0	13.8	12.0	13.1	18.0	13.9	14.6		
NE	4.1	6.3	1.3	.0	.0	11.7	9.3	13.9	12.8	13.3	9.8	10.0	
E	2.6	1.9	.6	.1	.0	5.1	6.6	3.2	2.3	4.3	3.8		
SE	3.1	4.3	1.1	.1	.0	8.8	9.7	10.3	7.3	8.6	8.6		
S	4.0	8.4	4.3	.7	.1	17.3	12.9	18.1	18.9	17.1	17.9		
SW	3.7	6.1	4.6	1.0	.2	13.2	14.8	16.0	13.6	14.6	16.3		
W	2.4	3.9	1.1	.4	.2	8.0	12.1	7.0	7.4	8.4	9.5		
NW	2.6	6.3	3.0	.6	.1	12.6	12.8	10.6	10.7	13.4	12.8		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.4					3.4	.0	4.3	7.0	5.9	4.3		
TOT OBS	903	1394	373	96	16	2944	11.4	847	396	326	373		
TOT PCT	30.7	46.0	13.3	3.3	.3	100.0		100.0	100.0	100.0	100.0		

MARCH

PERIOD: (PRIMARY) 1910-1970
(OVER-ALL) 1860-1970

APEA 0013 SANIA BLANCA
59.65 57.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
0000	4.3	8.9	43.3	33.5	8.9	.9	.2	11.2	100.0	847
0600	7.0	1.4	38.8	39.4	8.2	.8	.3	11.3	100.0	396
1200	5.9	7.7	37.8	37.9	9.2	1.0	.3	11.7	100.0	926
1800	4.3	4.7	48.9	35.7	5.2	.7	.3	11.0	100.0	373
TOT	198	203	1229	1073	239	26	12	11.4		2946
PCT	5.4	7.0	41.7	36.5	8.1	.9	.4	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	0.1	.8	2.1	2.1		3.0
E	1.6	.7	.8	1.0		4.0
SE	.9	.9	1.8	2.1		5.3
S	4.4	4.2	6.8	3.8		4.5
SW	6.7	4.0	6.6	2.7		4.1
W	3.6	.6	2.4	1.4		3.6
NW	3.1	1.6	1.8	.8		2.2
VAR	.0	.0	.0	.0		.0
CALM	4.8	.5	1.9	1.0		2.6
TOT OBS	374	138	244	183	911	3.6
TOT PCT	41.1	15.1	27.0	16.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <3/8 BY WIND DIRECTION

WIND DIR	CEILING HEIGHTS (FT, NH >4/8)										NH <3/8 ANY HGT	TOTAL OBS
	000 149	150 299	300 399	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+		
N	.6	.0	.0	.4	1.0	2.3	.4	.2	.1	.0	10.8	
NE	.7	.0	.1	.4	.4	1.5	.4	.0	.1	.1	7.3	
E	.3	.0	.1	.2	.4	.3	.1	.0	.0	.0	2.4	
SE	.1	.0	.0	.4	1.2	1.8	.4	.1	.0	.2	2.0	
S	.1	.0	.0	.4	2.2	4.5	2.3	.0	.1	.1	9.2	
SW	.3	.0	.1	.9	2.1	4.1	1.2	.0	.1	.0	11.3	
W	.2	.1	.0	.3	.3	1.7	.3	.1	.2	.0	4.8	
NW	.0	.0	.0	.2	.4	.3	.1	.1	.0	.0	7.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.1	.3	1.2	.1	.0	.1	.2	3.2	
TOT OBS	27	1	3	30	73	162	48	3	7	6	380	
TOT PCT	2.6	.1	.3	3.3	8.2	17.8	5.9	.3	.8	.7	60.4	

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>8	>6	>4	>3	>1/2	>1/4	>50YD
>8000	1.1	1.2	1.3	1.3	1.3	1.3	1.3	1.3
>6000	1.6	1.8	1.9	1.9	1.9	1.9	1.9	1.9
>4000	5.5	6.7	7.3	7.3	7.3	7.3	7.3	7.3
>3000	15.0	22.3	24.8	24.7	24.7	24.7	24.8	24.8
>2000	20.8	29.7	32.8	32.2	32.3	32.3	32.4	32.4
>1000	21.8	32.2	36.0	36.5	36.7	36.7	36.8	36.8
>500	22.0	32.4	36.3	36.8	37.0	37.0	37.1	37.1
>150	22.0	32.5	36.4	36.9	37.1	37.1	37.3	37.3
>0	22.1	32.7	36.8	37.3	37.7	38.4	39.8	40.0
TOTAL	197	291	328	336	336	342	355	359

TOTAL NUMBER OF OBS: 891

PCT FREQ NH <3/8: 60.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

n	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
33.7	3.8	7.2	6.0	8.3	6.4	8.7	9.1	14.4	2.5	968

PERIOD: (PRIMARY) 1910-1976
(OVER-ALL) 1860-1976

MARCH

AREA 0613 SAMIA BLANCA
39.6S 57.4W

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.4	.5	.2	.2	.1	.2	.1	.0	.0	.0	.3	2.1
	TOT %	.4	.5	.2	.2	.1	.2	.1	.0	.0	.0	.3	2.2
1/2<1	PCP	.1	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.9
	NO PCP	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.0	.1	.1	.1	.1	.1	.0	.0	.0	.2	.8
1<2	PCP	.1	.2	.0	.0	.0	.2	.0	.0	.0	.0	.4	
	NO PCP	.2	.2	.0	.0	.1	.0	.1	.1	.0	.1	.7	
	TOT %	.3	.3	.0	.0	.1	.2	.1	.1	.0	.1	1.1	
2<5	PCP	.1	.2	.0	.1	.1	.3	.2	.0	.0	.0	1.0	
	NO PCP	1.3	1.4	.2	.3	2.0	1.2	.4	.7	.0	.8	8.2	
	TOT %	1.4	1.5	.2	.4	2.1	1.5	.9	.7	.0	.8	9.1	
5<10	PCP	.2	.3	.1	.0	.2	.2	.1	.0	.0	.0	1.4	
	NO PCP	4.7	3.7	1.7	2.2	3.8	3.8	1.3	2.1	.0	3.6	29.3	
	TOT %	5.2	4.0	1.8	2.3	4.0	3.9	1.7	2.2	.0	3.6	30.7	
10+	PCP	.2	.1	.1	.1	.1	.0	.0	.0	.0	.0	.4	
	NO PCP	8.0	3.3	2.0	3.1	10.7	12.2	4.7	3.3	.0	3.2	55.7	
	TOT %	9.0	3.6	2.0	3.2	10.8	12.2	4.7	3.3	.0	3.2	56.3	
TOT OBS													1233
TOT PCT		16.7	12.1	4.4	6.1	10.1	10.2	7.2	8.3	.0	7.7	100.0	

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.7	
	4-10	.4	.3	.1	.1	.0	.0	.1	.0	.0	.0	1.0	
	11-21	.0	.2	.1	.1	.1	.1	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.6	.5	.3	.1	.1	.2	.1	.0	.0	.0	.3	2.3
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.1	.1	.1	.1	.1	.0	.0	.0	.4	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.1	.1	.1	.1	.1	.0	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.2	.2	.0	.0	.0	.1	.1	.1	.0	.0	.7	
	11-21	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	TOT %	.3	.3	.0	.0	.1	.2	.1	.2	.0	.0	1.6	
2<5	0-3	.1	.2	.0	.1	.0	.1	.0	.0	.0	.0	.4	
	4-10	.3	.3	.2	.0	.3	.2	.1	.3	.0	.0	2.2	
	11-21	.0	.0	.0	.2	1.1	.8	.3	.4	.0	.0	4.2	
	22+	.2	.0	.0	.0	.3	.3	.0	.1	.0	.0	.9	
	TOT %	1.4	1.4	.2	.3	1.9	1.3	.3	.8	.0	.0	6.1	
5<10	0-3	.2	.1	.1	.0	.1	.1	.0	.2	.0	3.1	3.9	
	4-10	2.3	1.9	1.1	1.3	1.3	1.2	1.0	.9	.0	.0	11.2	
	11-21	2.1	1.3	.3	.7	2.8	1.9	.4	.9	.0	.0	10.6	
	22+	.3	.1	.1	.0	1.0	.6	.2	.1	.0	.0	2.6	
	TOT %	5.1	3.6	1.8	2.0	5.3	3.8	1.6	2.1	.0	3.1	28.3	
10+	0-3	.2	.4	.2	.2	.4	.3	.1	.3	.0	3.0	3.1	
	4-10	3.9	3.0	1.7	2.4	4.3	3.3	2.4	3.1	.0	.0	24.1	
	11-21	4.9	2.7	.6	1.0	3.0	3.6	2.2	2.5	.0	.0	23.3	
	22+	.8	.2	.0	.0	1.0	2.0	.2	.3	.0	.0	4.3	
	TOT %	9.8	6.3	2.6	3.6	10.7	12.1	4.9	6.3	.0	3.0	59.3	
TOT OBS													1473
TOT PCT		17.3	12.1	3.1	6.2	10.2	17.7	7.2	9.4	.0	6.9	100.0	

MARCH

PERIOD: (PRIMARY) 1910-1976
(OVER-ALL) 1860-1976

AREA 0013 BAHIA BLANCA
29.63 57.4W

TABLE 10

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

HRUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	4.5	.0	.5	3.5	8.0	14.6	8.5	.0	.0	.5	38.2	61.8	199
0600	1.6	.0	.0	1.1	5.4	11.4	1.1	.5	.5	.0	21.7	78.3	184
1200	2.6	.4	.4	4.4	9.5	21.9	4.7	.7	.4	1.5	46.4	53.6	274
1800	1.8	.0	.4	3.2	9.0	19.1	7.2	.7	1.8	.4	42.5	57.5	278
TOT	24	1	3	30	77	163	48	5	7	6	364	571	933
PCT	2.6	.1	.3	3.2	8.2	17.4	5.1	.5	.7	.6	38.9	61.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	2.3	.8	1.5	12.6	34.1	48.7	396
0600	1.8	.0	.6	12.2	35.8	49.3	327
1200	3.4	.7	2.2	4.4	22.3	66.7	408
1800	1.4	.3	1.1	3.6	23.1	70.6	360
TOT	34	7	21	121	427	881	1491
PCT	2.3	.5	1.4	8.1	28.6	59.1	100.0

TABLE 12

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

HRUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000	4.5	6.1	24.7	23.2	52.0	199
0600	2.0	2.7	12.1	16.1	71.8	149
1200	2.6	3.4	11.6	37.1	51.3	267
1800	1.8	2.3	10.1	34.7	55.2	277
TOT	24	32	126	265	500	891
PCT	2.7	3.6	14.1	29.7	56.1	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	.3	.0	.3	2	.6
70/74	.0	.0	.0	.3	.0	1.5	1.8	1.2	16	4.7
65/69	.0	.0	.0	.0	.9	1.8	4.1	8.3	51	15.0
60/64	.0	.0	.3	.6	2.4	4.1	13.9	16.2	134	39.5
55/59	.0	.0	.3	.9	3.8	3.9	10.6	8.3	101	29.6
50/54	.0	.0	.0	.0	2.7	2.1	2.9	2.4	34	10.0
45/49	.0	.0	.0	.0	.0	.3	.0	.0	1	.3
TOTAL	0	0	2	6	33	33	121	124	339	100.0
PCT	.0	.0	.6	1.8	9.7	13.6	35.7	36.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.3	.0	.0	.0	.0	.0	.3	.0	.0
70/74	2.3	.9	.0	.1	.4	.6	.3	.1	.0	.0
65/69	4.4	1.5	.8	1.6	1.1	2.0	1.3	2.3	.0	.0
60/64	12.7	5.2	1.5	1.1	2.7	8.3	2.4	4.6	.0	1.2
55/59	3.8	3.8	2.3	1.9	8.5	4.0	2.1	1.9	.0	1.5
50/54	.0	.0	.0	.3	3.1	2.6	.2	.6	.0	.3
45/49	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
TOTAL	23.1	11.8	4.9	6.0	17.8	17.4	6.3	9.7	.0	2.9

TABLE 15

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

HRUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	75	73	69	61	53	50	49	61.0	822
0600	75	70	68	60	52	50	47	60.1	387
1200	80	74	71	62	54	52	49	62.0	881
1800	86	80	74	64	58	53	51	64.2	350
TOT	86	78	71	62	54	51	47	61.7	2840

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	1.1	8.9	10.0	32.2	47.8	86	90		
0600	.0	2.3	4.0	16.1	34.5	39.1	84	87		
1200	.0	3.1	9.2	13.3	34.7	35.7	84	98		
1800	.0	2.7	12.2	21.6	36.5	27.0	81	74		
TOT	0	8	33	54	122	132	84	349		

MARCH

PERIOD: (PRIMARY) 1910-1976
(OVER-ALL) 1860-1976

AREA 0013 BAHIA BLANCA
39.83 57.4W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH-OUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	M FOG	NO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	3	.0	.3
14/16	.0	.0	.0	.0	.1	.0	.2	.0	.0	.0	.	.0	.3
11/13	.0	.0	.0	.0	.0	.1	.3	.2	.1	.0	.	.0	.6
9/10	.0	.0	.1	.1	.3	.3	.2	.1	.0	.0	12	.0	1.0
7/8	.0	.0	.1	.6	.7	.4	.8	.0	.0	.0	30	.3	2.2
6	.0	.0	.1	.4	.8	.7	.4	.0	.0	.0	28	.0	2.3
5	.0	.1	.8	.9	1.0	.8	.4	.0	.0	.0	43	.0	3.6
4	.0	.0	.8	1.8	2.1	.8	.0	.0	.0	.0	84	.7	4.7
3	.0	.1	1.1	1.5	1.6	.8	.0	.0	.0	.0	61	.4	4.7
2	.1	.4	.7	4.0	3.4	.8	.0	.0	.0	.0	110	.4	8.6
1	.1	.7	1.8	2.9	1.6	.3	.1	.0	.0	.0	88	.4	6.8
0	.3	.8	1.1	5.7	3.4	.3	.0	.0	.0	.0	188	.9	10.7
-1	.1	.3	1.8	2.9	1.6	.3	.0	.0	.0	.0	81	.3	6.5
-2	.3	.6	2.8	3.1	1.8	.0	.0	.0	.0	.0	127	.7	10.0
-3	.3	.6	2.8	3.1	1.8	.0	.0	.0	.0	.0	74	.1	6.1
-4	.0	1.8	2.2	2.3	.3	.0	.0	.0	.0	.0	100	.2	8.4
-5	.2	1.2	2.6	1.4	.2	.0	.0	.0	.0	.0	66	.2	5.4
-6	.1	.3	1.1	1.9	.1	.1	.0	.0	.0	.0	32	.1	2.6
-7-8	.1	.3	1.1	1.9	.1	.1	.0	.0	.0	.0	38	.1	3.1
-9/-10	.3	1.7	1.1	1.0	.0	.0	.0	.0	.0	.0	38	.1	3.1
-11/-12	.8	1.0	.0	.1	.0	.0	.0	.0	.0	.0	17	.1	1.2
-13/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	30	.1	273	419	227	61	27	3	3	2	1192	61	1131
PCT	2.9	12.3	22.9	33.2	19.0	5.1	2.3	.3	.3	.2	100.0	5.1	94.9

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

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

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.3	.3	.0	.0	.0	.0	1.1	.4	.8	.0	.0	.0	.0	1.2
1-2	.5	3.4	.7	.0	.0	.0	4.1	.0	3.8	1.4	.0	.0	.0	4.9
3-4	.0	1.8	2.6	.1	.0	.0	4.3	.0	.9	2.1	.0	.0	.0	3.0
5-6	.0	.3	1.8	.4	.0	.0	2.4	.0	.2	1.0	.0	.0	.0	1.2
7	.0	.0	1.6	.3	.0	.0	2.0	.0	.0	.2	.1	.0	.0	.3
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	6.0	7.1	1.1	.0	.0	14.7	.4	3.4	4.8	.1	.0	.0	10.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.3	.4	.0	.0	.0	.0	.7	.1	.4	.0	.0	.0	.0	.6
1-2	.5	1.2	.7	.0	.0	.0	3.2	.0	1.1	.4	.0	.0	.0	1.8
3-4	.0	.7	.0	.0	.0	.0	1.4	.0	.3	1.1	.0	.0	.0	1.8
5-6	.0	.3	.3	.0	.0	.0	.8	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.1	.0	.0	.0	.1	.0	.8	.0	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.6	1.1	.0	.0	.0	3.9	.1	2.1	1.9	.0	.0	.0	4.1

PERIOD: (OVER-ALL) 1963-1976

MARCH
TABLE 10 (CONT)

AREA 0013 SANTA BLANCA
39.65 37.64

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.4	.0	.0	.0	.0	2.6	.1	2.4	.2	.0	.0	.0	1.7
1-2	.1	1.9	.3	.0	.0	.0	4.7	.7	3.7	.3	.0	.0	.0	2.7
3-4	.1	1.8	2.7	.0	.0	.0	3.6	.0	.0	3.2	.1	.0	.0	4.4
5-6	.0	.1	3.3	.1	.0	.0	2.3	.0	.1	2.6	.9	.0	.0	3.4
7	.0	.3	2.0	.0	.0	.0	2.3	.0	.0	1.3	1.0	.0	.0	2.3
8-9	.0	.0	2.0	.3	.0	.0	.3	.0	.0	.4	.6	.1	.0	1.9
10-11	.0	.0	.4	.1	.0	.0	.9	.0	.0	.3	.4	.1	.0	.2
12	.0	.0	.0	.0	.1	.0	.4	.0	.0	.1	.1	.0	.0	.0
13-16	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.3	11.2	1.8	.1	.0	18.1	.7	3.8	12.0	3.4	.3	.0	20.1

HGT	M						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.4	.0	.0	.0	.0	2.6	.1	2.6	.1	.0	.0	.0	2.7	
1-2	.0	2.6	.0	.0	.0	.0	2.0	.1	.8	1.0	.0	.0	.0	2.0	
3-4	.0	.3	1.3	.0	.0	.0	.7	.0	.2	.8	.1	.0	.0	1.1	
5-6	.0	.1	1.3	.0	.0	.0	.3	.0	.4	.4	.1	.0	.0	1.0	
7	.0	.0	.5	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.7	2.7	.1	.0	.0	6.4	.3	4.4	2.6	.3	.0	.0	7.1	
														55.7	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	16.3	3.9	.1	.0	.0	.0	20.6	
1-2	.3	16.7	3.4	.0	.0	.0	22.4	
3-4	.3	7.7	13.4	.4	.0	.0	23.8	
5-6	.0	1.2	11.3	.7	.0	.0	13.2	
7	.0	.9	7.3	1.6	.0	.0	9.9	
8-9	.0	.0	4.2	1.3	.0	.0	3.7	
10-11	.0	.0	.9	.9	.1	.0	1.9	
12	.0	.0	.4	1.0	.3	.0	1.8	
13-16	.0	.0	.1	.8	.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	17.1	32.3	43.3	6.7	.4	.0	100.0	684

PERIOD: (OVER-ALL) 1960-1976

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.3	6.8	13.3	3.3	2.7	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	272	4
6-7	.0	.8	3.1	4.3	4.8	3.4	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	149	6
8-9	.0	.0	.8	1.7	1.7	.3	.7	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	7
10-11	.0	.0	.6	1.0	1.0	.7	.1	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	6
12-13	.0	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDEX	12.1	10.4	3.8	3.4	3.0	1.2	.3	.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	339	3
TOTAL	107	183	234	136	116	34	16	17	9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	882	4
PCT	12.4	18.9	26.0	16.1	13.3	6.3	1.9	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	130.0	

PERIOD: (PRIMARY) 1011-1970
(OVER-ALL) 1000-1970

APRIL

AREA 0013 SANTA BLANCA
59.95 50.00

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN MM	RAIN INCH	DRIZ MM	FRIG PCPN	SNOW MM	OTHER PREN PCPN	HAUL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGC NO PCPN	FGC NO PCPN PAST HR	SMOKE HAZE	SPRAY BLDG SNOW	DUST SIC SEA
N	.9	1.0	.0	.0	.0	.0	.0	0.1	.0	.0	11.5	.0	1.0	.0	01.9
NE	.7	3.2	.7	.0	.0	.0	.0	5.0	1.5	.7	8.0	.0	.7	.0	03.3
E	4.7	1.2	.0	.0	.0	.0	.0	5.9	.0	.0	13.0	.0	.0	.0	00.3
SE	2.0	4.6	2.0	.0	.0	.0	.0	7.1	2.0	.0	13.1	.0	.0	.0	77.0
S	.0	2.1	0.3	.0	.0	.0	.0	0.4	.0	.0	4.3	.0	.0	.0	00.4
SW	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	.0	0.7	1.0	.0	.0	07.3
W	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	0.7	.0	2.0	.0	00.3
NW	2.0	.0	1.3	.0	.0	.0	.0	3.1	.0	.0	5.3	.0	.0	.0	00.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	3.0	.0	.0	.0	.0	.0	3.0	5.7	.0	9.4	.0	.0	.0	01.1
TOT PCT	1.1	1.7	1.2	.0	.0	.0	.2	4.3	1.3	.4	8.0	.2	.0	.1	05.0
TOT OBS:	000														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN MM	RAIN INCH	DRIZ MM	FRIG PCPN	SNOW MM	OTHER PREN PCPN	HAUL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGC NO PCPN	FGC NO PCPN PAST HR	SMOKE HAZE	SPRAY BLDG SNOW	DUST SIC SEA
0000	.0	1.3	1.3	.0	.0	.0	.0	3.5	.4	.0	7.0	.0	.0	.0	03.0
0000	2.4	1.3	2.4	.0	.0	.0	.0	0.3	2.4	1.0	3.4	.0	.0	.0	00.4
1200	1.2	1.7	.4	.0	.0	.0	.0	3.3	.4	.0	0.3	.0	1.2	.0	00.3
1800	.0	2.2	.0	.0	.0	.0	.0	3.9	1.3	.0	12.1	.4	1.7	.0	00.3
TOT PCT	1.1	1.7	1.2	.0	.0	.0	.2	4.2	1.1	.4	8.1	.2	1.0	.1	04.0
TOT OBS:	000														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.4	0.9	5.7	.0	.1	.0	14.0	11.5	22.0	14.7	21.4	12.3	10.8	9.1	14.7	11.0
NE	.5	0.0	4.9	.0	.0	.0	11.0	10.7	14.2	12.0	13.3	6.7	10.7	0.3	10.0	10.5
E	.2	2.5	1.3	.0	.0	.0	4.2	10.0	3.2	5.3	3.4	3.0	2.4	4.3	0.6	3.0
SE	.5	3.3	3.0	.0	.1	.0	7.6	12.0	9.1	8.5	4.0	7.0	3.9	10.1	3.7	10.3
S	1.2	3.0	4.0	1.9	1.2	.1	12.0	13.5	10.4	10.0	11.4	12.1	14.1	13.2	9.2	13.6
SW	.0	4.4	3.3	2.4	1.4	.2	14.4	16.7	14.0	13.3	11.4	14.3	11.7	10.4	17.0	16.9
W	1.0	3.0	3.2	1.7	.2	.1	13.9	13.0	13.5	13.5	12.3	10.4	13.6	14.2	13.6	13.0
NW	.7	0.9	0.2	2.1	.3	.1	10.2	13.3	13.3	17.0	10.3	23.1	20.0	22.2	12.0	17.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0						3.0	.0	6.7	1.4	4.4	1.9	0.2	2.1	5.0	2.9
TOT OBS	206	063	020	207	75	9	2100	12.0	405	207	206	210	407	320	219	200
TOT PCT	9.4	30.4	37.0	9.5	3.4	.4	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40					00	06	12	18	
N	2.0	0.4	2.0	.2	.0	14.0	11.5	13.5	10.8	13.4	12.9		
NE	2.0	0.1	1.3	.0	.0	11.0	10.7	13.7	10.9	9.6	13.7		
E	1.0	2.0	.6	.0	.0	4.2	10.0	3.2	3.3	3.2	5.3		
SE	2.0	4.0	1.3	.2	.2	7.6	12.0	0.9	3.0	7.0	7.0		
S	2.0	4.9	2.3	1.3	.3	12.0	13.5	10.5	11.0	13.7	11.4		
SW	2.3	0.0	3.3	2.0	.0	14.4	16.7	14.3	12.9	13.0	17.2		
W	3.4	0.3	3.1	.7	.2	13.9	13.0	14.1	14.4	13.9	13.3		
NW	3.0	0.2	3.1	.0	.1	10.2	13.3	14.0	20.9	21.3	13.2		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.0					3.0	.0	4.9	3.1	2.3	4.0		
TOT OBS	321	1006	432	114	30	2100	12.0	612	410	733	420		
TOT PCT	33.0	49.0	19.7	3.2	1.0	100.0		100.0	100.0	100.0	100.0		

APRIL

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1969-1976

AREA 0013 SANJA BLANCA
39.35 56.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

MOON	CALM	WIND SPEED (KNOTS)						MEAN	PCT PREG	TOTAL OBS
		1-3	4-10	11-21	22-39	34-47	48+			
0000Z	4.0	6.0	40.4	36.6	8.8	3.1	-.2	12.1	100.0	612
0400Z	3.1	4.0	37.3	41.1	9.4	4.1	-.3	13.3	100.0	414
1201Z	2.3	6.1	37.7	37.9	11.2	3.3	-.3	13.3	100.0	733
1902Z	4.0	4.9	43.2	36.4	7.5	3.5	-.3	12.3	100.0	428
TOT	04	122	863	829	267	75	9	12.8		2189
PCT	3.8	5.6	39.4	37.9	9.5	3.4	-.4	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CLOUD OBS	MEAN CLOUD COVER	WIND DIRECTION										
							000	150	300	450	1000	2000	3500	5000	6500	8000+	MM <3/8 ANY HGT	TOTAL OBS
N	0.1	1.5	4.3	3.9		3.7	1.1	.0	.0	.5	1.5	1.9	-.7	.2	.2	.3	11.6
NE	7.4	1.8	4.4	2.7		3.6	.5	.0	.0	-.2	1.8	2.0	1.5	.2	.0	.0	10.5
E	2.0	.1	.6	1.1		3.4	.3	.0	.0	.0	.2	.3	-.6	.0	.2	.2	2.8
SE	2.7	.4	1.1	1.1		3.5	.2	.0	.2	-.2	.5	.8	-.3	.0	.0	.0	3.2
S	5.1	.8	2.3	2.1		3.5	.9	.0	.0	.5	1.4	1.5	-.5	.0	.0	.0	6.1
SW	0.3	2.3	1.0	1.2		2.4	.5	.0	.0	.4	1.3	.3	-.2	.0	.0	.2	10.7
W	9.6	.8	1.5	.9		1.8	.5	.0	.0	.0	.8	.3	-.2	.0	.2	.0	10.9
NW	7.0	1.6	3.0	1.5		3.2	.3	.0	.0	.3	.8	1.0	.8	.3	.0	.2	10.5
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8	.2	1.5	1.1		3.7	.3	.0	.0	.0	.8	.8	-.9	.0	.0	.0	3.2
TOT OBS	358	63	140	103	644	3.2	25	0	1	14	60	58	31	4	3	5	481
TOT PCT	59.9	9.5	21.1	19.5	100.0		3.8	.0	.2	2.1	9.0	8.7	5.0	.6	.5	.8	69.4

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, MM >4/8)
AND OCCURRENCE OF MM <3/8 BY WIND DIRECTION

WIND DIR	000	150	300	450	1000	2000	3500	5000	6500	8000+	MM <3/8 ANY HGT	TOTAL OBS
N	1.1	.0	.0	.5	1.5	1.9	-.7	.2	.2	.3	11.6	
NE	.5	.0	.0	-.2	1.8	2.0	1.5	.2	.0	.0	10.5	
E	.3	.0	.0	.0	.2	.3	-.6	.0	.2	.2	2.8	
SE	.2	.0	.2	-.2	.5	.8	-.3	.0	.0	.0	3.2	
S	.9	.0	.0	.5	1.4	1.5	-.5	.0	.0	.0	6.1	
SW	.5	.0	.0	.4	1.3	.3	-.2	.0	.0	.2	10.7	
W	.5	.0	.0	.0	.8	.3	-.2	.0	.2	.0	10.9	
NW	.3	.0	.0	.3	.8	1.0	.8	.3	.0	.2	10.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.0	.8	.8	-.9	.0	.0	.0	3.2	
TOT OBS	25	0	1	14	60	58	31	4	3	5	481	
TOT PCT	3.8	.0	.2	2.1	9.0	8.7	5.0	.6	.5	.8	69.4	

TABLE 7

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

CEILING (FEET)	VSBY (MM)							
	>10	>5	>2	>1	>1/2	>1/4	>3000	>0
>OR >6500	.5	1.1	1.2	1.2	1.2	1.4	1.4	1.4
>OR >5000	.9	1.9	2.0	2.0	2.0	2.2	2.2	2.2
>OR >3500	3.4	6.2	6.6	6.6	6.6	6.8	7.0	7.1
>OR >2000	3.9	14.1	15.0	15.1	13.3	13.3	13.8	13.9
>OR >1000	9.4	21.5	23.8	24.0	24.1	24.4	24.7	24.9
>OR >600	9.7	23.2	25.8	26.0	26.1	26.6	26.9	27.0
>OR >400	9.7	23.2	26.0	26.1	26.3	26.7	27.0	27.2
>OR >150	9.7	23.2	26.0	26.1	26.3	26.7	27.0	27.2
>OR >0	9.7	23.6	26.9	27.0	27.4	28.4	30.8	31.4
TOTAL	63	153	174	173	177	184	199	203

TOTAL NUMBER OF OBS: 647

PCT FREQ MM <3/8: 68.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	OBSCD	TOTAL OBS
42.3	7.7	10.2	5.7	2.9	3.7	5.0	8.6	10.0	3.7		697

APRIL

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1869-1976

AREA 0013 BAHIA BLANCA
39.35 56.9W

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.2	.0	.0	.0	.0	.1	.0	.0	.0	.0	.3
	NO PCP	.7	.3	.1	.1	.3	.7	.4	.1	.0	.1	1.8	
	TOT %	.7	.6	.1	.1	.3	.7	.4	.2	.0	.1	3.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	NO PCP	.2	.1	0	.1	.0	.0	.1	.1	.0	.0	.4	
	TOT %	.2	.1	.0	.1	.0	.0	.1	.1	.0	.1	.6	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	.0	.0	.0	.1	.0	.1	.1	.0	.0	.4	
	TOT %	.2	.0	.0	.0	.1	.0	.1	.1	.0	.1	.4	
2<5	PCP	.2	.3	.0	.0	.1	.0	.0	.1	.0	.0	.7	
	NO PCP	.6	.4	.3	.4	.6	.4	.9	.6	.0	.7	4.4	
	TOT %	.8	.7	.3	.4	.7	.4	.9	.7	.0	.7	5.5	
5<10	PCP	.4	.3	.3	.4	.4	.0	.4	.4	.0	.1	2.4	
	NO PCP	6.7	6.7	1.9	2.1	4.6	4.4	3.7	6.2	.0	2.9	41.4	
	TOT %	9.1	7.0	2.2	2.5	5.1	4.4	3.7	6.6	.0	3.0	43.8	
10+	PCP	.1	.0	.0	.0	.1	.2	.1	.0	.0	.0	.4	
	NO PCP	7.0	6.8	2.1	2.4	4.3	6.9	7.1	7.1	.0	1.9	43.7	
	TOT %	7.1	6.8	2.1	2.4	4.4	7.1	7.3	7.3	.0	1.9	46.3	
TOT OBS												889	
TOT PCT		18.0	13.1	4.8	5.6	10.6	12.6	12.3	14.9	.0	6.0	100.0	

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.3	.2	.0	.1	.2	.5	.2	.2	.0		1.8	
	11-21	.2	.3	.1	.0	.0	.1	.1	.0	.0		.8	
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.6	.5	.1	.2	.3	.6	.3	.2	.0	.1	2.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0		.2	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	.1	.0	.0	.0	.0	.0	.1	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.2	
	4-10	.1	.0	.0	.0	.0	.0	.1	.0	.0		.4	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0		.1	
	TOT %	.1	.0	.0	.0	.2	.0	.2	.1	.0	.1	.9	
2<5	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.6	.8	
	4-10	.3	.3	.1	.1	.4	.1	.2	.1	.0		1.7	
	11-21	.3	.3	.2	.2	.2	.1	.4	.6	.0		2.5	
	22+	.0	.0	.1	.0	.1	.1	.2	.3	.0		.8	
	TOT %	.7	.6	.4	.3	.6	.3	.8	.8	.7	.0	5.4	
5<10	0-3	.4	.1	.0	.2	.1	.0	.1	.0	.0	2.8	3.7	
	4-10	4.3	3.6	1.2	1.1	1.3	1.3	2.1	2.8	.0		18.2	
	11-21	3.4	2.6	.8	1.7	2.7	2.3	1.3	3.3	.0		18.7	
	22+	.3	.0	.1	.0	.3	.2	.2	.4	.0		2.0	
	TOT %	8.7	6.4	2.2	3.0	4.5	4.2	3.9	6.7	.0	2.8	42.4	
10+	0-3	.1	.2	.0	.0	.3	.5	.0	.1	.0	1.8	3.0	
	4-10	3.6	3.5	1.9	1.4	1.3	2.3	3.2	3.2	.0		20.5	
	11-21	2.7	2.9	.4	1.1	2.9	3.2	3.6	3.4	.0		20.3	
	22+	.3	.1	.0	.2	.4	1.2	.9	.8	.0		4.0	
	TOT %	6.7	6.7	2.4	2.7	5.0	7.4	7.6	7.6	.0	1.8	47.9	
TOT OBS												1013	
TOT PCT		17.0	14.3	9.1	6.4	10.7	12.7	12.9	13.4	.0	9.4	100.0	

APRIL

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1869-1976

AREA 0013 BAHIA BLANCA
39.33 56.9W

TABLE 10

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

HOUR (GMT)	000	180	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000Z	3.7	.0	.0	.7	8.6	6.4	5.7	.0	.7	1.4	29.3	70.7	140
0600Z	3.6	.0	.7	2.9	3.6	2.2	2.9	.7	.0	.7	17.3	82.7	139
1201Z	2.0	.0	.0	2.3	12.4	9.4	5.4	1.0	1.0	1.0	34.7	65.3	202
1802Z	4.8	.0	.0	1.9	8.7	13.5	4.8	1.0	.0	.5	35.3	64.7	207
TOT	27	0	1	14	60	39	33	3	3	6	208	480	688
PCT	3.9	.0	.1	2.0	8.7	6.6	4.6	.7	.4	.9	30.2	69.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000Z	2.3	.4	1.1	6.8	47.9	41.3	205
0600Z	1.3	.4	.9	7.1	48.7	41.5	224
1201Z	2.8	.4	1.1	3.9	38.7	55.2	284
1802Z	3.1	.8	.4	4.3	35.0	54.3	237
TOT	30	3	9	36	436	494	1030
PCT	2.9	.7	.9	3.4	42.3	48.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <300D	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000Z	6.3	7.1	15.0	18.9	66.1	127
0600Z	4.3	6.9	12.9	16.3	76.7	116
1201Z	2.3	4.0	9.3	23.3	65.0	200
1802Z	4.9	9.4	10.8	23.3	63.7	204
TOT	28	36	73	139	433	647
PCT	4.3	9.8	11.6	21.3	66.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.2	.2	.3	.0	.0	4	.9
65/69	.0	.0	.0	.2	1.6	.9	3.6	1.6	35	7.9
60/64	.0	.0	.0	.0	2.9	6.1	10.9	11.3	139	31.4
55/59	.0	.0	.0	1.4	4.9	3.7	14.3	12.2	168	38.0
50/54	.0	.0	.0	1.1	1.6	2.7	7.0	6.2	83	18.8
45/49	.0	.0	.0	.0	.8	1.1	.7	.7	13	2.9
TOTAL	0	0	0	13	30	75	161	143	442	100.0
PCT	.0	.0	.0	2.9	11.2	17.0	36.4	32.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.2	.1	.0	.0	.0	.2	.1	.3	.0	.0
65/69	2.7	1.8	.2	.0	.2	.3	1.1	1.6	.0	.0
60/64	6.2	4.3	.3	1.5	.9	2.3	4.0	10.4	.0	1.1
55/59	6.1	2.8	1.4	2.7	6.4	6.2	6.1	8.3	.0	.2
50/54	2.4	1.1	1.0	3.1	4.0	2.8	1.9	2.0	.0	.3
45/49	.2	.0	.1	.1	1.0	.8	.5	.0	.0	.2
TOTAL	17.8	10.1	3.2	7.4	12.6	12.6	13.6	20.7	.0	2.0

TABLE 15

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

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	71	68	65	58	50	47	46	57.9	615
0600Z	70	66	64	58	50	47	46	57.7	419
1201Z	75	71	66	59	50	48	44	58.8	716
1802Z	75	72	69	61	51	48	47	60.7	414
TOT	75	71	66	59	50	47	44	58.7	2164

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	1.8	10.0	20.0	30.9	37.3	34	110		
0600Z	.0	2.7	7.3	19.2	41.8	30.0	64	110		
1201Z	.0	1.7	16.3	16.3	33.9	31.4	93	121		
1802Z	.0	3.4	11.6	14.3	36.4	30.4	93	112		
TOT	0	13	32	78	164	146	93	433		

APRIL

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1869-1976

AREA 0013 BAHIA BLANCA
39.33 96.9W

TABLE 17

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

AIR-SEA TMP DJF	45	49	53	57	61	65	69	TOT	M	WD
	48	52	56	60	64	68	72		FOG	FOG
11/13	.0	.0	.0	.0	.0	.2	.6	7	.1	.7
9/10	.0	.0	.0	.1	.2	1.6	.2	18	.2	2.0
7/8	.0	.0	.0	.5	2.7	1.7	.1	41	.9	4.2
6	.0	.0	.0	.5	1.5	.5	.1	21	.1	2.5
5	.0	.0	.2	1.6	5.1	1.0	.1	65	.9	7.2
4	.0	.4	.9	2.0	5.2	1.5	.0	80	.6	9.3
3	.0	.4	1.1	4.1	3.8	1.1	.0	85	.7	9.8
2	.0	.4	1.1	4.8	3.3	.7	.0	84	1.1	9.3
1	.0	1.0	1.7	4.1	2.8	.5	.0	82	.5	9.6
0	.5	.7	1.9	2.7	3.6	1.7	.1	91	1.1	10.1
-1	.1	.9	1.2	2.3	2.2	.0	.0	35	.7	6.1
-2	.1	.9	1.4	2.3	3.1	.0	.0	43	.9	6.9
-3	.0	.4	2.0	.6	.4	.1	.0	28	.1	3.3
-4	.1	.7	.9	.7	1.4	.0	.0	31	.2	3.6
-5	.1	.5	.2	.5	.4	.0	.0	14	.0	1.7
-6	.0	.1	.5	.2	.9	.0	.0	14	.0	1.7
-7/-8	.0	.2	1.2	.5	.0	.0	.0	18	.0	2.0
-9/-10	.1	.1	.4	.6	.0	.0	.0	10	.1	1.1
-11/-13	.1	.1	.1	.0	.0	.0	.0	3	.1	.2
-14/-16	.0	.0	.1	.0	.0	.0	.0	1	.1	.0
TOTAL	10	55	121	220	296	87	11	809	70	739
PCT	1.2	6.8	13.0	26.3	36.6	10.8	1.4	100.0	8.7	91.3

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

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

HGT	N					PCT	NE					PCT	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
41	.2	.8	.0	.0	.0	.0	.2	.7	.0	.0	.0	.0	.0
1-2	.0	3.7	.9	.0	.0	4.3	.0	4.2	.9	.0	.0	.0	5.1
3-4	.0	5.1	2.9	.0	.0	8.0	.2	4.2	6.2	.0	.0	.0	10.6
5-6	.0	.0	2.0	.0	.0	2.0	.0	.2	1.4	.0	.0	.0	1.6
7	.0	.2	.4	.2	.0	.7	.0	.1	.1	.0	.0	.0	.1
8-9	.0	.2	.3	.0	.0	.5	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.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
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	9.8	6.4	.4	.0	16.8	.4	9.3	8.7	.0	.0	.0	18.4

HGT	E					PCT	SE					PCT	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
41	.0	.6	.0	.0	.0	.6	.1	.7	.0	.0	.0	.0	.7
1-2	.0	1.6	.4	.0	.0	2.0	.0	1.4	.0	.0	.0	.0	1.8
3-4	.0	.6	.2	.2	.0	.9	.0	.1	.7	.1	.0	.0	.8
5-6	.0	.0	.4	.0	.0	.4	.0	.2	.3	.1	.0	.0	.9
7	.0	.0	.2	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.3
12	.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
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	1.2	.2	.0	4.1	.1	2.3	1.8	.3	.0	.0	4.3

PERIOD: (OVER-ALL) 1963-1976

APRIL
TABLE 18 (CONT)

AREA 0013 BAHIA BLANCA
39.35 56.9W

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

HGT	S					PCT	SW					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
<1	.2	.0	.0	.0	.0	.2	.5	.4	.0	.0	.0	.9
1-2	.2	2.4	.2	.0	.0	2.8	.0	1.4	.1	.0	.0	1.5
3-4	.0	1.0	2.0	.4	.0	3.4	.0	.9	.6	.0	.0	1.9
5-6	.0	.0	1.7	.2	.0	1.9	.0	.0	2.4	.1	.2	2.7
7	.0	.4	.7	.0	.0	1.1	.0	.1	1.4	.4	.0	1.8
8-9	.0	.0	.2	.0	.0	.2	.0	.0	.3	.1	.0	.4
10-11	.0	.0	.2	.4	.0	.5	.0	.0	.0	.0	.2	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.2	.8	.0	1.0
17-19	.0	.0	.0	.0	.2	.2	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	2.8	5.1	.9	.2	10.2	.9	2.7	5.2	1.9	.4	10.6

HGT	W					PCT	NW					PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47		
<1	.0	.8	.0	.0	.0	.8	.1	.4	.0	.0	.0	.5	.5
1-2	.0	.9	.9	.0	.0	1.4	.0	2.4	.7	.0	.0	3.1	3.1
3-4	.0	1.4	.9	.8	.0	2.9	.0	2.1	2.1	.2	.0	4.4	4.4
5-6	.0	.8	2.1	.0	.0	2.7	.0	.4	1.0	.4	.0	1.8	1.8
7	.0	.4	.9	.2	.0	1.4	.0	.0	.7	.3	.0	1.2	1.2
8-9	.0	.0	1.1	.4	.0	1.5	.0	.2	.3	.0	.0	.5	.5
10-11	.0	.0	.4	.4	.0	.8	.0	.0	.4	.2	.0	.6	.6
12	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.8	.2	.2	1.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.2	6.7	1.8	.2	12.9	.1	3.6	5.2	1.3	.0	12.0	89.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.4	4.3	.0	.0	.0	.0	19.7	
1-2	.2	18.0	3.7	.0	.0	.0	21.8	
3-4	.2	15.3	15.3	1.8	.0	.0	32.9	
5-6	.0	1.4	11.4	.8	.2	.0	13.9	
7	.0	1.0	4.3	1.2	.0	.0	6.7	
8-9	.0	.4	2.7	.4	.0	.0	3.3	
10-11	.0	.0	1.2	1.2	.2	.0	2.7	
12	.0	.0	.4	.0	.0	.0	.4	
13-16	.0	.0	.8	1.0	.2	.0	2.0	
17-19	.0	.0	.0	.2	.2	.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	11.8	40.4	40.2	6.7	.8	.0	100.0	490

PERIOD: (OVER-ALL) 1950-1976

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	3.7	17.1	4.9	1.8	.8	.3	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	201	4
6-7	.0	1.6	3.3	3.8	1.9	2.2	1.0	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	5
8-9	.0	.2	1.8	2.9	1.4	.8	.6	.6	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	7
10-11	.0	.3	.5	1.0	1.3	.2	.3	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	7
12-13	.0	.0	.0	.2	.8	.3	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	9
>13	.0	.0	.0	.0	.2	1.0	1.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	10
INDEX	7.2	7.8	10.2	3.2	2.9	1.9	1.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	213	3
TOTAL	32	98	218	100	63	43	26	8	13	3	1	0	0	0	0	0	0	0	0	0	627	4
PCT	8.3	19.6	34.8	15.9	10.0	7.2	4.1	1.3	2.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1907-1976
(COVER-ALL) 1871-1976

MAY

AREA 0013 SANJA BLANCA
39.4S 56.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHMR	DRZL	FRZG PCP	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD PCPN	SMOKE	HAZE	BLWG DUST	SPRAY	NO SIG
N	1.4	2.9	3.2	.0	.0	.0	.0	7.5	1.4	3.6	21.1	.0	5.0	.0	.0	.0	62.9
NE	.0	2.7	4.1	.0	.0	.0	.0	6.8	.0	1.4	40.4	.0	.0	.0	.0	.0	51.4
E	5.3	6.3	.0	.0	.0	.0	.0	12.7	.0	.0	3.2	.0	.0	.0	.0	.0	84.1
SE	.0	5.6	1.4	.0	.0	.0	.0	6.9	.0	5.6	5.6	.0	.0	.0	.0	.0	81.9
S	3.4	3.4	2.5	.0	.0	.0	.0	9.2	.0	8.4	6.7	.0	.0	.0	.0	.0	79.0
SW	2.4	1.2	.0	.0	.0	.0	.0	3.5	4.7	1.2	4.1	.0	.0	.0	.0	.0	86.5
W	.0	4.5	.0	.0	.0	.0	.0	4.5	.0	2.7	4.9	.0	.0	.0	.0	.0	87.9
NW	1.8	3.5	2.2	.0	.0	.0	.0	7.5	.0	.9	8.0	1.8	.9	.0	.0	.0	81.0
VAR	.0	.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	.0	100.0
TOT PCT	1.5	3.3	1.8	.0	.0	.0	.0	6.6	.9	2.7	12.7	.3	1.2	.0	.0	.0	76.2
TOT OBS:	332																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD PCPN	SMOKE	HAZE	BLWG DUST	SPRAY	NO SIG
0600	.9	3.8	.9	.0	.0	.0	.0	5.7	.9	3.7	11.3	.0	1.9	.0	.0	.0	75.5
0609	4.3	2.9	2.9	.0	.0	.0	.0	10.1	.0	2.9	10.1	.0	1.4	.0	.0	.0	76.8
1215	1.1	2.3	2.3	.0	.0	.0	.0	5.7	.0	1.1	13.8	.0	1.1	.0	.0	.0	78.2
1821	1.2	3.6	1.2	.0	.0	.0	.0	6.0	2.4	.0	14.3	1.2	.0	.0	.0	.0	76.2
TOT PCT	1.7	3.2	1.7	.0	.0	.0	.0	6.6	.9	2.6	12.4	.3	1.2	.0	.0	.0	76.6
TOT OBS:	346																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.3	3.6	3.5	1.5	.2	.0	14.2	12.2	16.2	14.6	16.5	15.6	12.1	13.0	15.7	13.2
NE	.6	4.6	3.3	.4	.0	.0	8.8	10.4	9.4	10.0	4.0	7.0	6.9	9.6	4.0	11.6
E	.6	2.1	1.6	.6	.1	.0	4.9	11.9	3.2	5.1	1.8	3.4	5.3	6.6	3.2	3.9
SE	1.3	3.0	2.4	.5	.1	.1	7.3	11.0	8.5	7.5	1.8	7.0	6.2	8.3	7.3	6.9
S	.7	3.8	4.0	1.2	.4	.1	10.2	13.8	11.3	9.1	9.8	10.0	10.1	10.6	11.3	9.2
SW	1.3	4.2	3.9	2.6	1.1	.2	15.4	15.3	13.4	16.4	18.8	18.2	17.4	13.9	18.1	14.4
W	1.0	3.1	7.2	2.8	.5	.1	16.6	14.8	13.3	16.6	16.5	16.4	17.4	17.0	20.6	16.1
NW	1.0	7.1	8.9	3.4	.3	.0	20.7	14.0	21.2	18.8	23.4	20.2	21.8	20.1	18.1	21.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0						2.0	.0	1.5	1.8	3.4	2.1	2.6	1.0	1.6	2.6
TOT OBS	197	707	772	236	53	8	1993	13.2	328	274	56	289	311	410	62	267
TOT PCT	9.9	35.3	38.7	12.8	2.7	.4	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	06	12	18
N	3.6	6.8	3.0	.8	9	14.2	12.2	15.3	15.8	12.6	13.7
NE	2.2	3.2	1.4	.0	.0	8.8	10.4	9.7	6.3	8.4	10.3
E	1.3	2.1	1.0	.3	.0	4.9	11.9	4.1	4.8	6.1	3.8
SE	2.7	2.8	1.5	.3	.1	7.3	11.0	8.0	6.2	7.4	7.0
S	2.3	4.4	2.6	.5	.3	10.2	13.8	10.3	15.0	10.4	9.6
SW	3.6	3.3	4.3	1.3	.3	15.4	15.3	14.8	16.6	13.4	13.1
W	2.9	7.0	3.3	1.2	.2	16.6	14.8	13.9	16.4	17.2	16.9
NW	3.7	9.3	6.3	1.4	.1	20.7	14.0	20.1	21.0	20.8	21.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0					2.0	.0	1.7	2.6	1.7	2.4
TOT OBS	484	837	309	117	24	1993	13.2	602	341	721	329
TOT PCT	24.4	43.0	23.3	3.9	1.2	100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1967-1976
(OVER-ALL) 1971-1976

MAY

AREA 0013 SANJA BLANCA
39.45 56.00

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (CPT)

HOUR	CAL*	WIND SPEED (KNOTS)						40+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
0000	1.7	9.1	30.2	30.5	11.3	2.3	.8	13.0	100.0	602	
0400	2.0	5.9	27.0	40.3	11.7	1.5	.9	13.0	100.0	341	
1215	1.7	7.9	34.5	30.4	14.3	3.2	.8	13.4	100.0	721	
1921	2.4	7.9	34.7	30.0	13.7	3.3	.8	13.3	100.0	329	
TOT	30	150	707	772	256	53	8	13.2		1993	
PCT	2.0	7.9	35.5	30.7	12.8	2.7	.4		100.0		

TABLE 5

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

WIND DIR	C-2	3-4	5-7	8-8	TOTAL OBS	MEAN CLOUD COVER
NE	.5	.9	1.2	4.2		6.0
E	.0	.0	.0	.3		7.0
SE	.4	1.9	1.7	1.1		5.2
S	3.1	2.0	3.9	1.7		4.4
SW	0.7	3.0	3.2	1.3		3.0
W	0.3	2.6	4.0	1.3		3.1
NW	0.6	.0	5.0	4.0		4.2
VAR	.0	.0	.0	.0		.0
CAL*	1.0	.0	.3	.3		3.4
TOT OBS	67	23	34	40	100	4.3
TOT PCT	34.0	13.4	20.0	21.3	100.0	

TABLE 6

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

WIND DIR	000	150	300	600	1000	2000	3000	5000	6500	8000+	NH <5/8	TOTAL OBS
N	3.8	.0	.0	.0	2.0	2.2	1.5	1.1	.0	.5	9.0	
NE	2.0	.0	.0	.0	.5	1.1	.5	.5	.0	.0	1.7	
E	.0	.0	.0	.0	.0	.5	.4	.0	.0	.0	.5	
SE	.5	.0	.0	.0	.7	.5	.0	.0	.0	.0	2.4	
S	.0	.0	.0	.0	.8	.9	1.6	.4	.0	.0	7.0	
SW	.0	.0	.0	.0	.8	1.7	.8	.4	.0	.0	13.3	
W	.0	.0	.0	1.9	.0	.4	.3	1.1	.0	.0	13.6	
NW	.1	.0	.0	.0	.8	2.7	1.9	.0	.5	.0	12.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CAL*	.0	.0	.0	.0	.5	.5	.0	.0	.0	.0	1.6	
TOT OBS	12	0	0	0	13	19	15	5	3	1	116	100
TOT PCT	6.5	.0	.0	.0	8.1	10.2	6.1	2.7	1.6	.5	62.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)								
	>10	>5	>2	>1	>1/2	>1/4	>500	>0	
>4900	1.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
>5000	3.0	5.2	5.2	5.2	5.2	5.2	5.2	5.2	
>5500	8.9	12.5	13.5	13.5	13.5	13.5	13.5	13.5	
>6000	12.3	22.4	23.4	23.4	23.4	23.4	23.4	23.4	
>6500	13.6	30.2	32.3	32.3	32.3	32.3	32.3	32.3	
>7000	13.6	30.2	32.3	32.3	32.3	32.3	32.3	32.3	
>7500	13.6	30.2	32.3	32.3	32.3	32.3	32.3	32.3	
>8000	13.6	30.2	32.3	32.3	32.3	32.3	32.3	32.3	
>8500	13.6	30.2	32.3	32.3	32.3	32.3	32.3	32.3	
>9000	13.6	30.2	32.3	32.3	32.3	32.3	32.3	32.3	
>9500	13.6	30.2	32.3	32.3	32.3	32.3	32.3	32.3	
>0	13.6	30.2	32.3	32.3	32.3	32.3	32.3	32.3	
TOTAL	30	50	62	63	64	64	75	75	

TOTAL NUMBER OF OBS: 102

PCT FREQ NH <5/8: 60.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTH'S)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
21.9	13.4	11.5	5.7	0.0	3.0	5.7	9.0	13.9	6.2	209

PERIOD: (PRIMARY) 1907-1976
(OVER-ALL) 1871-1976

MAY

AREA 0013 BAHIA BLANCA
39.43 56.8W

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	2.3	1.9	.0	.0	.6	.2	.2	.6	.0	.0	.0	5.7
	TOT %	2.3	1.9	.0	.0	.6	.2	.2	.6	.0	.0	.0	5.7
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.2	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.9
	TOT %	.2	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.9
1<2	PCP	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.3
	NO PCP	.5	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.6
	TOT %	.7	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.9
2<5	PCP	.0	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.6
	NO PCP	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.3	1.9
	TOT %	.0	.0	.0	.0	.6	.0	.6	.3	.0	.0	.3	2.1
5<10	PCP	1.4	.8	.6	.0	.0	.5	.8	.6	.0	.0	.0	4.9
	NO PCP	6.8	4.8	3.3	2.7	2.8	3.4	7.6	11.7	.0	1.2	48.4	68.4
	TOT %	10.2	5.6	4.2	2.7	2.8	5.8	8.4	12.3	.0	1.2	53.2	73.2
10+	PCP	.0	.0	.0	.4	.5	.0	.0	.3	.0	.0	.0	1.2
	NO PCP	7.8	2.9	.6	2.0	4.3	6.9	7.8	3.3	.0	.6	36.0	57.2
	TOT %	7.8	2.9	.6	2.4	5.0	6.9	7.8	3.6	.0	.6	37.2	58.4
TOT OBS													331
TOT PCT													21.1 11.0 4.8 3.4 9.0 12.8 16.6 17.1 .0 2.1 100.0

TABLE 9

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

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.4
	4-10	1.3	1.2	.0	.0	.4	.3	.1	.5	.0	.0	.0	3.9
	11-21	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	1.8	1.4	.0	.0	.6	.3	.1	.7	.0	.0	.0	4.9
1/2<1	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2
	4-10	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2
	TOT %	.1	.3	.0	.2	.0	.2	.0	.0	.0	.0	.0	.8
1<2	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	4-10	.4	.0	.0	.0	.0	.0	.2	.5	.0	.0	.0	1.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.7	.2	.0	.0	.0	.0	.0	.4
	TOT %	.6	.0	.0	.0	.7	.2	.2	.5	.0	.0	.0	1.6
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	4-10	.1	.3	.0	.0	.4	.0	.0	.0	.0	.0	.0	1.0
	11-21	.2	.0	.0	.0	.2	.0	.3	.3	.0	.0	.0	1.0
	22+	.0	.0	.0	.0	.0	.2	.4	.0	.0	.0	.0	.6
	TOT %	.3	.3	.0	.0	.6	.2	.7	.3	.0	.0	.2	2.9
5<10	0-3	.6	.4	.0	.4	.0	.1	.3	.2	.0	.0	.8	2.9
	4-10	3.3	2.4	1.9	.7	1.1	1.3	1.5	3.2	.0	.0	.0	15.4
	11-21	4.1	.8	1.3	.7	.9	2.6	3.6	4.6	.0	.0	.0	18.0
	22+	.3	.4	.0	.0	.0	1.3	2.0	1.0	.0	.0	.0	5.1
	TOT %	8.4	4.0	3.2	1.8	2.0	5.3	7.5	9.0	.0	.0	.8	42.0
10+	0-3	.7	.0	1.1	.8	.8	.8	.4	.1	.0	.4	.4	5.1
	4-10	3.4	2.2	.8	1.4	2.3	2.3	2.8	2.7	.0	.0	.0	17.8
	11-21	2.9	.7	.2	.5	1.9	3.6	3.1	4.0	.0	.0	.0	19.1
	22+	.3	.0	.2	.0	.2	2.0	2.2	.8	.0	.0	.0	5.7
	TOT %	7.3	2.8	2.4	2.7	5.2	8.8	10.5	7.7	.0	.4	.4	47.7
TOT OBS													466
TOT PCT													18.4 9.0 9.6 4.7 8.7 19.0 19.1 18.1 .0 1.4 100.0

MAY

PERIOD: (PRIMARY) 1907-1976
(OVER-ALL) 1871-1976

APEA 0013 BAHIA BLANCA
39.45 56.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <3/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
00003	8.6	.0	.0	.0	12.1	3.4	3.4	3.4	.0	.0	31.0	69.0	58
06009	7.5	.0	.0	.0	2.5	5.0	15.0	.0	.0	.0	30.0	70.0	40
12015	4.0	.0	.0	.0	6.0	14.0	12.0	4.0	4.0	2.0	46.0	54.0	50
18021	5.6	.0	.0	.0	11.1	14.8	3.7	3.7	1.9	.0	40.7	59.3	54
TOT	13	0	0	0	17	19	16	6	3	1	75	127	202
PCT	6.4	.0	.0	.0	8.4	9.4	7.9	3.0	1.5	.5	37.1	62.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	5.1	.0	2.6	1.9	44.2	46.2	156
06009	5.0	1.0	1.0	4.0	49.0	46.0	100
12015	5.7	.0	1.5	3.0	49.0	48.9	135
18021	6.3	2.7	.9	2.7	38.7	48.6	111
TOT	25	4	8	14	213	238	502
PCT	5.0	.8	1.6	2.8	42.4	47.4	100.0

TABLE 12

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

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND 3+	NH <3/8 AND 3+	TOTAL OBS
00003	9.1	9.1	10.9	21.8	67.3	55
06009	7.9	7.9	9.8	21.1	69.2	39
12015	4.3	4.3	8.5	40.4	51.1	47
18021	5.8	9.6	9.6	36.5	59.8	52
TOT	13	15	21	58	113	192
PCT	6.8	7.8	10.9	30.2	58.9	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
69/69	.0	.0	.0	.0	.0	.0	.0	.3	1	.3
60/66	.0	.0	.3	.3	.9	1.0	1.9	1.9	18	5.7
59/59	.0	.0	.0	.3	.9	3.8	12.1	15.9	103	32.7
50/56	.0	.0	.0	1.6	2.9	3.8	19.9	14.6	122	38.7
49/49	.0	.0	.0	.6	1.0	2.5	7.0	9.5	65	20.6
40/44	.0	.0	.0	.0	.3	.3	.3	1.0	6	1.9
TOTAL	0	0	1	9	16	36	117	136	315	100.0
PCT	.0	.0	.3	2.9	5.1	11.4	37.1	43.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
69/69	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0
60/66	1.6	.0	.6	.7	.3	.0	.8	1.4	.0	.3
59/59	9.2	2.3	2.9	7.7	1.9	2.9	6.3	6.0	.0	.3
50/56	7.8	4.6	.5	1.1	2.8	7.4	7.8	6.4	.0	.6
49/49	2.6	2.0	.6	2.4	3.4	3.9	3.3	2.1	.0	.3
40/44	.3	.0	.0	.0	.6	.3	.0	.0	.0	.6
TOTAL	21.3	9.1	4.5	9.0	9.3	14.4	18.2	16.0	.0	2.2

TABLE 15

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

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	66	63	60	52	46	43	41	52.4	591
06009	65	61	59	51	45	43	41	51.0	339
12015	69	64	60	53	46	44	42	53.0	703
18021	70	65	61	54	46	45	42	53.8	317
TOT	70	64	60	52	46	44	41	52.7	1950

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.1	6.1	8.2	39.8	42.9	86	96	96	
06009	.0	4.3	2.9	5.8	34.8	52.2	88	69	69	
12015	.0	1.2	5.9	12.9	38.8	41.2	86	89	89	
18021	.0	4.0	4.0	20.0	36.7	39.3	84	75	75	
TOT	0	10	16	38	125	138	366	327	327	

MAY

PERIOD: (PRIMARY) 1907-1976
(OVER-ALL) 1871-1976

AREA 0013 SAMIA BLANCA
39.4S 56.8W

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	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.3	.0	1	.0	.3
11/13	.0	.0	.0	.3	.0	.0	.0	1	.0	.3
8/10	.0	.0	.3	.3	.3	.0	.0	3	.3	.6
7/8	.0	.0	.3	.6	.3	.3	.0	5	.0	1.5
6	.0	.0	.3	.3	1.2	.0	.0	6	.6	1.2
5	.0	.0	2.2	2.8	2.2	.6	.3	26	1.9	6.2
4	.0	.6	3.7	4.3	3.4	.9	.0	42	2.3	10.3
3	.0	.0	4.6	2.3	1.9	.0	.0	29	.9	8.0
2	.0	.9	4.6	3.1	3.1	.9	.0	41	1.3	11.1
1	.0	1.2	3.7	2.8	2.3	.3	.0	34	1.9	8.6
0	.0	.3	2.8	4.0	1.2	.6	.0	29	.6	8.3
-1	.0	2.2	1.3	1.2	.3	.3	.0	18	1.2	4.3
-2	.0	.9	1.9	2.2	.3	.0	.0	20	.6	3.6
-3	.6	.6	1.5	1.5	.3	.0	.0	15	.3	4.3
-4	.0	1.5	1.2	1.5	.0	.0	.0	14	.0	4.3
-5	.0	1.5	.9	1.3	.9	.0	.0	16	.0	4.9
-6	.3	1.2	1.3	.6	.3	.0	.0	13	.0	4.0
-7/-8	.0	1.9	.6	.0	.3	.0	.0	9	.3	2.3
-9/-10	.0	.0	.3	.0	.0	.0	.0	1	.0	.3
-11/-13	.0	.3	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	6	43	104	96	60	14	1	324	41	283
PCT	1.9	13.3	32.1	29.6	18.5	4.3	.3	100.0	12.7	87.3

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

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

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	1.0	.0	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	.7	4.7	.0	.0	.0	5.4	.0	.0	.0	.0	.0	.0	.0
3-4	.0	6.3	3.9	.0	.0	.0	12.2	.0	3.4	.7	.0	.0	.0	6.1
5-6	.0	.0	3.9	.0	.0	.0	3.9	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	9.1	13.2	.0	.0	.0	23.3	.0	6.4	.7	.0	.0	.0	7.1

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.0
1-2	.0	.7	.0	.0	.0	.0	.7	.0	2.2	.0	.0	.0	.0	2.2
3-4	.0	1.0	2.0	.0	.0	.0	2.9	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	2.0	.0	.0	.0	3.7	.0	1.2	2.7	.0	.0	.0	3.9

PERIOD: (OVER-ALL) 1963-1974

MAY

AREA 0013 BAHIA BLANCA
39.45 36.6W

TABLE 18 (CONT)

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

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.7	1.0	.0	.0	.0	.0	1.7	.0	1.0	.0	.0	.0	.0	.0	.0	1.0
3-4	.0	3.4	2.9	.0	.0	.0	6.4	.0	2.2	2.2	.0	.0	.0	.0	.0	4.4
5-6	.0	1.3	1.0	.0	.0	.0	2.3	.0	.2	.0	.0	.0	.0	.0	.0	.2
7	.0	.7	.0	.0	.0	.0	.7	.0	.3	2.9	.0	.0	.0	.0	.0	3.4
8-9	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	2.3	.0	.0	.0	.0	.0	2.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	6.6	6.4	.0	.0	.0	13.7	.0	4.2	8.6	.0	.0	.0	.0	.0	12.7

HGT	M							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.0	.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.0	1.7	.0	.0	.0	2.7	.0	4.2	.5	.0	.0	.0	.0	.0	4.7	
3-4	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	3.2	1.0	.0	.0	.0	.0	4.2	
5-6	.0	2.0	2.9	.0	.0	.0	4.9	.0	2.0	2.0	.0	.0	.0	.0	.0	3.9	
7	.0	.7	.7	.0	1.0	.0	2.3	.0	.0	2.3	.0	.0	.0	.0	.0	2.3	
8-9	.0	.0	1.0	1.0	.0	.0	2.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.4	9.1	1.0	1.0	.0	13.4	.0	6.1	10.0	1.0	.0	.0	.0	.0	17.2	

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	7.8
1-2	4.9	2.0	1.0	.0	.0	.0	7.8	18.6
3-4	1.0	10.8	8.9	.0	.0	.0	19.7	39.2
5-6	.0	20.6	17.6	1.0	.0	.0	39.2	19.7
7	.0	2.9	9.8	.0	.0	.0	12.7	9.8
8-9	.0	2.0	6.9	1.0	1.0	.0	10.9	7.8
10-11	.0	.0	1.0	.0	.0	.0	1.0	1.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	5.9	41.2	50.0	2.0	1.0	.0	100.0	102

PERIOD: (OVER-ALL) 1949-1974

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	
<1	2.7	11.4	16.1	6.0	2.7	4.0	1.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	4
1-2	.0	6.7	6.7	3.4	2.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	4
3-4	.0	.0	.7	1.3	2.0	.0	1.3	1.3	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	9
5-6	.0	.0	1.3	1.3	1.3	.7	.7	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	7
7-9	.0	.0	2.0	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
10-11	.0	.0	.0	.7	.7	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
14-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
16-17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
18-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
TOTAL	2.7	17.7	20.0	2.7	1.0	1.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	149	3
PCT	3.4	19.5	28.9	18.8	10.1	8.1	3.4	3.4	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	5

PEPIT: (PRIMARY) 1908-1975
(OVP-ALL) 1854-1975

JUNE

AREA 0013 BAHIA BLANCA
39.45 56.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	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	NO SIG WEA
N	2.0	1.0	3.0	.0	.0	.0	.0	5.9	.0	.0	13.9	.0	.0	.0	80.2
NE	7.7	1.9	1.9	.0	.0	.0	.0	11.3	.0	.0	24.0	.0	.0	.0	84.4
E	24.4	.0	.0	.0	.0	.0	.0	24.4	.0	.0	14.8	.0	.0	.0	61.0
SE	3.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	8.0	.0	6.0	.0	85.1
S	1.6	.0	.0	.0	.0	.0	.0	1.6	9.8	.0	16.4	.0	.0	.0	72.1
SW	7.8	.0	3.1	.0	.0	.0	3.1	10.9	6.2	.0	.0	.0	.0	.0	82.9
W	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	8.6	1.8	2.3	.0	84.7
NW	1.3	.0	.0	.0	.0	.0	.0	1.3	.0	.0	11.2	.3	.0	.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	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.3	.3	1.0	.0	.0	.0	.3	4.8	2.1	.0	11.4	.3	.7	.0	80.6
TOT OBS:	289														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	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	NO SIG WEA
0803	3.7	1.2	.0	.0	.0	.0	.0	4.9	2.5	.0	12.3	.0	.0	.0	80.2
0809	1.7	.0	1.7	.0	.0	.0	.0	3.4	3.4	.0	6.9	.0	.0	.0	86.2
1815	4.8	.0	2.4	.0	.0	.0	1.2	7.1	.0	.0	14.3	.0	1.2	.0	77.4
1821	4.1	.0	1.4	.0	.0	.0	.0	5.4	2.7	.0	10.8	1.4	1.4	.0	78.4
TOT PCT	3.7	.3	1.3	.0	.0	.0	.3	9.4	2.0	.0	11.4	.3	.7	.0	80.1
TOT OBS:	297														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.7	4.2	5.5	1.4	.1	.0	11.9	12.9	13.6	12.8	21.1	10.3	11.9	9.8	10.9	10.0
NE	.8	2.8	1.7	.3	.0	.0	5.0	10.0	4.2	4.4	4.4	3.7	5.2	3.8	5.3	6.1
E	.4	1.8	1.0	.3	.1	.0	3.7	11.6	4.0	3.2	4.4	2.1	3.1	4.6	2.8	4.8
SE	.3	3.2	2.4	.6	.1	.1	6.9	11.6	6.0	7.2	9.4	8.6	6.8	7.2	2.8	6.5
S	1.0	4.3	4.3	1.8	.3	.2	12.3	14.6	12.3	11.3	11.1	11.2	12.4	14.4	10.1	11.3
SW	1.0	4.9	6.2	3.0	1.3	.8	17.4	18.1	18.3	17.3	11.7	18.1	18.6	13.4	14.9	18.6
W	1.3	6.6	6.3	1.3	1.0	.3	18.2	14.9	16.7	18.7	22.2	17.0	18.0	18.1	17.9	20.8
NW	1.9	6.8	9.8	3.8	.7	.2	22.2	15.3	20.3	22.0	13.3	27.1	21.6	22.4	29.0	20.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3						2.3	.0	2.3	2.9	2.2	2.1	2.4	2.3	3.2	1.7
TOT OBS	192	721	783	282	87	36	2103	14.3	348	310	43	292	330	426	62	290
TOT PCT	9.1	34.3	37.3	13.4	4.1	1.7	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40					00	03	06	09	12	15	18	21
N	2.3	3.6	3.4	.4	.0	11.9	12.9	14.3	11.7	10.7	10.2				
NE	1.9	2.0	1.1	.0	.0	5.0	10.0	4.3	3.8	3.8	6.3				
E	1.4	1.6	.4	.1	.1	3.7	11.6	3.6	2.4	3.9	4.3				
SE	2.3	2.8	1.3	.2	.1	6.9	11.6	6.6	8.7	7.0	3.8				
S	3.1	4.9	2.9	1.0	.4	12.3	14.6	12.0	11.2	13.6	11.1				
SW	3.2	5.9	4.7	2.3	1.1	17.4	18.1	17.9	17.2	16.8	18.0				
W	4.2	7.3	4.0	1.8	.7	18.2	14.9	17.6	17.7	18.1	20.2				
NW	3.4	9.7	6.8	1.9	.4	22.2	15.3	21.1	23.3	22.0	21.7				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	2.3					2.3	.0	2.6	2.1	2.4	2.0				
TOT OBS	516	842	319	166	80	2103	14.3	638	337	736	332				
TOT PCT	24.3	40.0	24.7	7.9	2.9	100.0		100.0	100.0	100.0	100.0				

JUNE

PERIOD: (PRIMARY) 1968-1973
(OVER-ALL) 1954-1973

AREA 0013 SANJA BLANCA
39.4S 56.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GPT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000Z	2.6	7.6	33.4	37.1	12.8	4.7	1.8	14.4	100.0	638
0600Z	2.1	8.6	37.9	35.9	14.8	3.6	2.1	14.4	100.0	337
1201Z	2.4	5.3	35.1	38.2	13.4	4.2	1.5	14.4	100.0	756
1802Z	2.0	6.8	35.5	37.2	13.4	3.4	1.7	14.0	100.0	352
TOT	49	143	721	785	282	87	36	14.3		2103
PCT	2.3	6.8	34.3	37.3	13.4	4.1	1.7	100.0		

TABLE 4

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

WIND DIR	0-2	3-4	5-7	8 & O BSCD	TOTAL OBS	MEAN CLOUD COVER
NE	.8	.5	2.2	4.2		6.6
E	.0	.0	1.4	.5		6.3
SE	2.5	.5	1.0	1.1		3.6
S	2.9	2.3	3.3	1.7		4.0
SW	4.2	2.9	5.5	2.3		4.4
W	3.9	3.3	3.1	4.4		4.2
NW	7.4	1.9	7.2	7.8		5.0
VAR	.0	.0	.0	.0		.0
CALP	1.1	.0	1.1	.0	183	3.2
TOT OBS	39	20	53	31	183	4.6
TOT PCT	32.2	10.9	29.0	27.9	100.0	

TABLE 6

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

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	1.6	.0	.0	.0	.5	1.8	.9	.4	.5	.0	12.8	
NE	1.8	.0	.0	.0	.0	.7	.8	1.2	1.1	.0	1.6	
E	.0	.0	.0	.0	1.0	.0	.0	.5	.0	.0	.4	
SE	.0	.0	.0	.5	.7	.0	.4	.0	.1	.0	3.1	
S	.0	.0	.0	.8	.8	.3	.8	.0	1.0	.0	6.0	
SW	.0	.0	.0	1.9	1.0	1.0	2.7	.0	.0	.0	8.5	
W	.0	.0	.0	1.4	1.1	1.0	3.0	.0	.0	.0	10.2	
NW	2.0	.0	.0	3.0	3.3	3.0	.0	.0	.0	.0	13.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALP	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	1.6	
TOT OBS	10	0	0	14	16	15	14	4	9	0	105	183
TOT PCT	5.5	.0	.0	7.7	8.7	8.2	7.7	2.2	2.7	.0	57.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>8500	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
>5000	3.2	4.7	4.7	4.7	4.7	4.7	4.7	4.7
>3000	10.5	12.1	12.1	12.1	12.1	12.1	12.1	12.1
>2000	13.2	17.9	20.0	20.0	20.0	20.0	20.0	20.0
>1000	18.9	23.3	27.9	28.4	28.4	28.4	28.4	28.4
>600	24.2	32.1	35.3	35.8	35.8	35.8	35.8	35.8
>300	24.2	32.1	35.3	35.8	35.8	35.8	35.8	35.8
>150	24.2	32.1	35.3	35.8	35.8	35.8	35.8	35.8
>0	24.2	32.1	35.3	35.8	35.8	36.3	41.1	41.6
TOTAL	46	61	67	68	68	69	78	79

TOTAL NUMBER OF OBS: 190

PCT FREQ NM <5/8: 58.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
29.4	9.7	9.3	8.2	6.2	5.7	3.1	13.4	16.0	4.1	194

JUNE

PERIOD: (PRIMARY) 1966-1975
(DVEB-ALL) 1954-1975

AREA 0013 SANTA BLANCA
99.05 96.04

TABLE 8

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

VSBY (MM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.9
	NO PCP	1.9	1.0	.7	.0	.3	.0	.2	1.3	.0	.0	5.9
	TOT S	2.1	2.0	.7	.0	.3	.0	.2	1.3	.0	.0	5.9
1/2-1	PCP	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.9
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.9
1-2	PCP	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.7
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
	TOT S	.0	.0	.0	.0	.2	.2	.0	.7	.0	.0	1.0
2-5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.3	.3	.0	.0	.3	.1	.3	1.7	.0	.0	3.1
	TOT S	.3	.3	.0	.0	.3	.1	.3	1.7	.0	.0	3.1
5-10	PCP	.0	.7	.9	.2	.0	.0	.0	.0	.0	.0	1.7
	NO PCP	6.8	3.3	1.0	2.4	3.3	1.7	3.0	12.4	.0	.3	30.6
	TOT S	6.8	4.0	1.9	2.6	3.3	1.7	3.0	12.4	.0	.3	30.6
10+	PCP	.7	.0	.9	.0	.0	1.0	.0	.0	.0	.0	1.7
	NO PCP	7.4	2.5	1.5	3.2	6.2	8.1	10.7	10.9	.0	1.0	51.0
	TOT S	8.0	2.5	1.5	3.2	6.2	9.2	10.7	10.9	.0	1.0	53.9
TOT OBS												289
TOT PCT	17.5	9.0	3.5	5.6	10.6	11.2	14.1	27.0	.0	1.4	100.0	

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.5	.2	.0	.0	.2	.0	.0	.5	.0	.0	1.4	
	4-10	1.0	.7	.1	.0	.0	.0	.0	.4	.0	.0	2.3	
	11-21	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	1.5	1.4	.1	.0	.2	.0	.0	.9	.0	.0	4.1	
1/2-1	0-3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.9	
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.7	
1-2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
	11-21	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.2	.0	.1	.1	.0	.0	.0	.0	.5	
	TOT S	.0	.0	.3	.1	.1	.1	.0	.5	.0	.0	1.1	
2-5	0-3	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.5	
	4-10	.1	.0	.2	.0	.3	.2	.2	1.3	.0	.0	2.3	
	11-21	1.0	.2	.0	.0	.0	.0	.0	1.2	.0	.0	2.3	
	22+	.0	.3	.1	.1	.2	.1	.0	.0	.0	.0	.9	
	TOT S	1.1	.8	.3	.1	.5	.3	.5	2.7	.0	.0	6.3	
5-10	0-3	.8	.5	.6	.0	.0	.0	.0	.0	.0	.5	2.3	
	4-10	1.8	1.7	1.0	.2	1.4	.4	1.6	3.2	.0	.0	14.0	
	11-21	1.7	.9	.3	1.3	1.4	1.1	.6	2.9	.0	.0	10.4	
	22+	.3	.1	.0	.0	.0	.2	.2	1.7	.0	.0	2.7	
	TOT S	4.8	3.2	1.9	2.3	2.8	1.7	2.4	9.9	.0	.5	29.3	
10+	0-3	.8	.0	.0	.7	.9	.3	1.3	.6	.0	1.1	6.1	
	4-10	.9	1.1	.8	1.9	.2	2.3	4.4	4.1	.0	.0	13.8	
	11-21	3.7	1.0	.3	1.2	3.9	6.4	3.1	6.3	.0	.0	30.0	
	22+	.8	.1	.0	.0	1.1	2.3	1.7	.7	.0	.0	6.8	
	TOT S	6.2	2.2	1.2	3.8	6.2	11.4	12.3	11.7	.0	1.1	58.8	
TOT OBS												424	
TOT PCT	15.9	7.9	3.9	6.3	9.8	13.3	15.7	23.4	.0	1.6	100.0		

PERIOD: (PERIOD): 1000-1075
(1000-011) 1000-1075

JUNE

AREA 0013 SANTA BLANCA
20.45 20.00

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, IN >4/8) AND
RECAPTURE OF IN <3/8 BY HOUR

HOUR (GMT)	070 100	190 200	300 300	400 400	1000 1000	2000 2000	3000 3000	4000 4000	5000 5000	6000- 7000	TOTAL OBS	IN <3/8 OBS	TOTAL OBS
0000Z	2.2	.0	.0	4.4	1.2	0.7	4.4	4.4	2.2	.0	30.7	79.3	45
0000Z	5.3	.0	.0	7.0	10.2	7.0	7.0	.0	.0	.0	30.5	60.5	30
1201Z	10.0	.0	.0	10.0	10.0	2.0	10.0	.0	4.0	.0	46.0	54.0	50
1802Z	5.2	.0	.0	6.9	10.3	13.8	6.9	3.4	3.4	.0	50.0	50.0	50
TOT PCT	11 5.8	0 .0	0 .0	14 7.3	10 5.6	15 7.9	14 7.3	4 2.1	5 2.6	0 .0	70 41.4	112 50.0	191 100.0

TABLE 11

PERCENT FREQUENCY VSBY (IN) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10- 20	TOTAL OBS
0000Z	3.7	1.3	.7	0.0	29.9	50.2	134
0000Z	2.2	.0	1.1	0.7	20.9	01.1	90
1201Z	0.1	.0	1.5	5.3	31.0	35.3	132
1802Z	4.2	1.0	1.0	7.3	23.9	01.5	90
TOT PCT	11 4.2	3 .7	5 1.1	20 6.2	132 29.2	265 50.6	452 100.0

TABLE 12

CUMULATIVE PCT PROB OF RANGES OF VSBY (IN) AND/OR
CEILING HGT (FEET, IN >4/8) BY HOUR

HOUR (GMT)	<150 OBS	150- 500	500- 1000	1000- AMB-5+	IN <3/8 OBS	TOTAL OBS
0000Z	2.2	0.7	11.1	20.3	60.9	45
0000Z	5.3	5.3	15.0	23.7	60.5	30
1201Z	10.2	10.2	20.5	22.4	51.0	49
1802Z	5.2	5.2	17.2	32.0	50.0	50
TOT PCT	11 9.0	13 6.0	34 17.9	48 23.3	100 50.0	190 100.0

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
00/04	.0	.0	.0	.0	.3	.5	.5	.5	4	1.0
30/30	.0	.0	.0	.5	.5	.5	.9	2.3	10	4.3
50/50	.0	.0	1.4	4.8	5.9	20.0	10.9	90	90	43.4
45/40	.0	.0	.0	.0	7.2	13.1	19.0	89	40.3	
40/40	.0	.0	.0	.7	.0	.5	1.4	0.0	22	10.0
TOTAL PCT	.0 .0	.0 .0	.0 2.3	5 7.2	10 14.5	32 30.7	81 39.4	87 39.4	221	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
00/04	.0	.0	.0	.0	.0	.1	1.2	.5	.0	.0
30/30	.5	1.0	.2	.0	.0	.0	.0	1.5	.0	.0
50/50	0.4	5.0	2.4	2.0	3.3	5.1	4.2	25.0	.0	.5
45/40	0.9	2.4	2.3	2.5	4.3	5.5	6.0	10.4	.0	.0
40/40	1.0	1.0	.5	2.5	2.0	.0	.2	1.4	.0	.0
TOT	17.8	10.4	5.3	7.0	10.2	11.9	12.4	24.3	.0	.5

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	66	50	55	40	42	40	30	48.3	644
0000Z	61	57	54	40	42	39	30	48.0	333
1201Z	67	59	55	40	43	41	30	48.8	744
1802Z	63	61	56	40	43	41	30	49.4	342
TOT	67	59	55	40	42	40	30	48.6	2065

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	5-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	.0	9.2	8.6	39.7	40.6	80	50
0000Z	.0	4.3	4.3	15.2	39.1	37.0	80	40
1201Z	.0	1.0	4.3	18.0	33.3	42.0	87	69
1802Z	.0	3.7	14.0	13.0	37.0	31.3	83	54
TOT	0	5	16	32	64	90	86	227

JUNE

PERIOD: (001-00V) 10/0-1075
(0700-ALL) 1050-1075

AREA 0013 BANJA BLAWA
39.05 90.04

TABLE 17

PCT PRG OF AIR TEMPERATURE (CEG F) AND THE OCCURRENCE OF FLC (MID-DY PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (CEG F)

AIR-SEA TEMP DIF	37	41	45	49	53	57	61	TOT	M	NO
	44	48	52	56	60	64		FOG	FOG	
0/10	.0	.0	.0	.0	.0	.4	.0	1	.0	.4
1/9	.0	.0	.4	1.2	.0	.4	.0	7	.0	2.7
2	.0	.0	.7	2.3	.0	.0	.0	6	.0	1.0
3	.0	.0	.8	3.5	.4	.0	.4	13	.0	4.3
4	.0	.0	1.0	2.7	1.0	.4	.0	10	.4	5.0
5	.0	.0	2.0	2.0	2.0	.4	.0	10	.4	5.0
6	.0	.0	3.4	3.9	1.0	.4	.0	39	.4	14.0
7	.0	.0	7.0	2.7	3.1	.0	.0	33	2.7	10.2
8	.0	1.7	5.9	3.1	3.9	.0	.0	36	3.1	10.0
9	.0	2.3	1.2	3.9	.4	.0	.0	19	.0	6.0
10	.0	2.3	2.3	2.0	1.0	.0	.0	21	.0	7.4
11	.0	.0	1.0	1.0	.0	.0	.0	12	1.2	3.5
12	.0	1.7	.4	2.3	.0	.0	.0	12	.4	4.3
13	.0	.4	.4	1.0	.4	.0	.0	8	.0	3.1
14	.0	1.7	.0	.0	.4	.0	.0	8	.0	3.1
15	.0	.4	1.0	.0	.0	.0	.0	7	.0	2.7
16	.0	.0	.4	.0	.0	.0	.0	1	.0	.4
17	.0	.0	.0	.0	.0	.0	.0	1	.0	.4
TOTAL	1		01	87	43	5	5	256	30	220
PCT	.4	10.2	39.5	36.7	16.9	2.0	1.2	100.0	11.7	90.3

PERIOD: (0700-ALL) 1000-1075

TABLE 18

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

MGT	NE						PCT	SE						
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	1.1	.0	.0	.0	.0	.0	1.5	1.1	.0	.0	.0	.0	.0	1.4
1-2	.0	3.0	4.3	.0	.0	.0	8.2	.0	.0	3.3	.0	.0	.0	3.5
3-4	.0	.0	4.3	.0	.0	.0	4.3	.0	1.1	1.1	.0	.0	.0	2.2
5-6	.0	.0	1.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.2	.0	.0	.0	2.7	.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
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
81+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	4.0	12.0	.0	.0	.0	19.3	1.1	1.0	4.3	.0	.0	.0	7.9

MGT	SE						PCT	NE						
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.0	.0	.0	.0	.0	.0	.0	1.4	1.1	.0	.0	.0	.0	2.4
1-2	.0	2.2	.0	.0	.0	.0	2.7	.0	3.3	.0	.0	.0	.0	3.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	1.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	2.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
81+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	.0	.0	.0	.0	3.0	1.4	4.3	3.0	.0	.0	.0	6.9

PERIOD: (OVER-ALL) 1949-1974

JUNE
TABLE 18 (CONT.)

AREA 0013 BAHIA BLANCA
39.45 56.0W

PCT FREQ OF WIND SPEEL (KTS) AND DIRECTION VERSLS SEA HEIGHTS (FT)

MGT	SW						PCT	NW						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	1.1
3-4	.0	.0	.0	.0	.0	.0	3.0	1.4	4.3	.0	.0	.0	.0	.0	5.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	2.2
7	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	.0	2.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	1.4
10-11	.0	.0	1.1	.0	.0	.0	1.9	.0	.0	.3	.0	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	1.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	9.7	.0	.0	.0	8.2	.0	2.4	10.3	1.4	.0	.0	.0	14.1

MGT	SW						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.9	.0	.0	.0	.0	2.7	.0	4.9	2.4	.0	.0	.0	.0	7.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	2.2	4.7	.0	.0	.0	.0	10.9
5-6	.0	.0	7.2	.0	.0	.0	2.2	.0	2.2	5.7	.0	.0	.0	.0	7.9
7	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	4.1	1.1	.0	.0	7.9	.0	9.2	16.8	1.1	.0	.0	.0	27.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
41	7.4	2.1	.0	.0	.0	.0	9.5	
1-2	1.1	17.9	10.3	.0	.0	.0	29.3	
3-4	.0	5.3	22.1	.0	.0	.0	27.4	
5-6	.0	2.1	11.6	.0	.0	.0	13.7	
7	1.1	.0	9.5	1.1	.0	.0	11.6	
8-9	1.1	.0	2.1	.0	.0	.0	3.2	
10-11	.0	.0	1.1	2.1	.0	.0	3.2	
12	.0	.0	.0	1.1	.0	.0	1.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	1.1	.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	10.3	27.4	56.8	5.3	.0	.0	100.0	93

PERIOD: (OVER-ALL) 1949-1974

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 MGT		
46	1.4	10.1	11.5	8.6	5.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52	4	
6-7	.0	.7	3.6	7.2	11.5	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	6
8-9	.0	1.4	1.4	4.3	2.2	1.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	6
10-11	.0	3.6	.0	1.4	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	5
12-13	.0	.0	.0	.0	.0	.7	.7	.7	1.4	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	14
13	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDPT	1.4	.7	8.6	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	3
TOTAL	4	23	35	34	26	4	3	3	4	1	2	0	0	0	0	0	0	0	0	0	0	139	5
PCT	2.9	16.5	25.2	24.3	18.7	2.9	2.2	2.2	2.9	.7	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1867-1973

AREA 0013 RAMIA BLANCA
39.45 56.7N

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.9	.0	3.9	.0	.0	.0	.0	7.8	.0	.0	19.9	.0	3.9	.0	88.4
NE	3.6	.0	.0	.0	.0	.0	.0	3.6	.0	.0	9.9	.0	3.6	.0	82.9
E	5.8	5.8	.0	.0	.0	.0	.0	11.6	.0	.0	17.4	.0	5.8	.0	85.2
SE	.0	.0	.0	.0	.0	.0	.0	.0	5.8	5.8	.0	.0	.0	.0	88.4
S	6.1	2.0	7.1	.0	.0	.0	.0	15.3	3.1	.0	2.0	.0	4.1	.0	75.5
SW	1.4	1.4	3.4	.0	.0	.0	.0	6.1	.7	2.7	1.4	.0	.0	.0	89.2
W	3.8	.0	1.9	.0	.0	.0	.0	3.8	.0	3.4	4.8	.0	7.7	.0	78.4
NW	.0	.0	.0	.0	.0	.0	.0	.0	1.6	2.0	24.7	.0	1.6	.0	70.1
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	23.0	.0	.0	.0	75.0
TOT PCT	2.7	.7	2.0	.0	.0	.0	.0	3.4	1.0	1.7	12.2	.0	3.4	.0	76.2
TOT OBS:	294														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	1.4	1.4	1.4	.0	.0	.0	.0	4.1	1.4	2.7	14.9	.0	4.1	.0	73.0
0600	2.0	2.0	2.0	.0	.0	.0	.0	6.0	2.0	6.0	18.0	.0	.0	.0	68.0
1215	3.8	.0	1.9	.0	.0	.0	.0	3.8	.0	.0	12.5	.0	3.8	.0	77.9
1821	2.6	.0	2.6	.0	.0	.0	.0	3.2	1.3	.0	10.4	.0	3.9	.0	79.2
TOT PCT	2.6	.7	2.0	.0	.0	.0	.0	3.2	1.0	1.6	13.4	.0	3.3	.0	73.4
TOT OBS:	305														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47				00	03	06	09	12	15	18	21
N	.6	4.0	3.6	1.7	.2	.0	12.1	13.8	11.7	12.2	16.2	10.0	13.1	12.0	20.9	11.3
NE	.8	3.2	2.2	.2	.0	.0	6.4	9.6	7.7	6.0	13.5	3.0	3.7	6.7	16.3	4.6
E	.4	2.3	.8	.2	.1	.0	3.8	9.6	4.9	3.0	7.4	2.8	3.2	4.0	2.9	4.4
SE	1.0	2.4	2.3	.7	.3	.0	7.4	12.0	7.4	7.3	6.1	6.7	6.9	9.3	7.0	3.9
S	.6	3.7	3.9	1.8	.6	.2	10.4	15.3	10.7	9.4	8.1	10.6	10.9	10.2	11.0	10.5
SW	1.4	3.3	3.6	2.1	1.0	.2	13.8	14.6	16.3	17.0	12.2	13.7	13.0	13.7	13.7	19.1
W	1.8	7.0	5.7	2.2	1.6	.6	18.3	14.1	17.1	18.4	13.5	18.9	17.4	19.3	19.2	18.6
NW	.8	6.6	10.6	4.0	.7	.0	22.6	15.1	20.1	22.9	20.3	27.2	23.5	22.0	7.0	23.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2	.0	.0	.0	.0	.0	3.2	.0	4.0	3.7	2.7	3.0	4.3	2.6	.0	2.4
TOT OBS	208	697	725	254	88	8	1980	13.4	296	267	27	268	327	434	43	284
TOT PCT	10.9	33.2	36.6	12.8	4.4	.4	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)								
	0-6	7-16	17-27	28-40				00	03	06	09	12	15	18	21	
N	2.2	3.3	3.6	.8	8	12.1	13.8	11.9	10.7	12.3	12.5					
NE	2.2	3.4	.7	.1	.0	6.4	9.6	6.9	6.1	6.3	6.2					
E	1.6	1.7	.4	.1	0	3.8	9.6	4.0	3.4	3.6	4.2					
SE	2.4	3.0	1.4	.3	0	7.4	12.0	7.3	6.6	6.3	6.1					
S	2.1	4.1	2.9	.9	.3	10.4	15.3	10.0	10.3	10.3	10.6					
SW	4.0	6.6	3.2	1.4	.6	13.8	14.6	16.6	15.2	14.2	18.7					
W	3.1	7.0	3.7	2.2	.3	18.3	14.1	17.7	18.3	18.6	18.7					
NW	3.2	10.0	7.7	2.1	.1	22.6	15.1	21.3	26.4	22.7	21.0					
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	3.2	.0	.0	.0	.0	3.2	.0	3.9	3.0	3.3	2.1					
TOT OBS	318	818	460	138	26	1980	13.4	363	305	781	329					
TOT PCT	26.2	41.3	23.2	8.0	1.3	100.0		100.0	100.0	100.0	100.0					

JULY

PERIOD: (PRIMARY) 1904-1975
(OVER-ALL) 1867-1975

AREA 0013 SANJA BLANCA
39.4° 56.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	3.9	8.5	34.9	37.2	11.0	4.4	.2	12.8	100.0	569
0600Z	3.0	3.2	38.0	39.0	10.2	3.9	.7	13.4	100.0	305
1200Z	3.3	7.9	32.8	35.7	15.1	4.9	.3	13.8	100.0	781
1800Z	2.1	3.5	38.9	38.6	13.1	4.0	.9	13.3	100.0	329
TOT	64	144	697	725	254	88	8	13.4		1980
PCT	3.2	7.3	35.2	36.6	12.8	4.4	.4	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	1.3	.8	2.2	7.0		4.3
E	1.7	.0	1.7	3.7		3.5
SE	.9	.7	.0	2.3		3.3
S	1.3	.7	3.9	3.9		6.1
SW	4.2	2.2	6.5	2.2		4.6
W	6.7	1.2	3.3	3.4		3.4
NW	4.3	1.3	4.5	3.3		4.7
VAR	.0	.0	.0	.0		.0
CALM	.7	.0	1.3	.0	149	3.1
TOT OBS	39	11	51	49	149	
TOT PCT	29.3	7.4	34.7	32.9	100.0	

TABLE 6

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

WIND DIR	000	150	300	400	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
M	2.5	.0	.0	1.3	.7	1.2	1.3	.0	.3	1.0	7.9	
NE	.2	.0	.0	.7	.8	.7	3.4	.7	.7	.0	4.4	
E	.7	.0	.0	.0	1.8	.7	.5	.3	.0	.0	2.9	
SE	.0	.0	.0	.7	.0	.0	.2	.2	.0	.0	2.9	
S	1.0	.0	.0	1.7	.5	.8	2.7	1.3	.7	.0	3.0	
SW	.3	.0	.0	.3	.2	2.5	2.2	1.3	.0	.0	8.2	
W	.0	.0	.0	.7	1.0	1.2	1.7	.0	.0	.7	11.8	
NW	.7	.0	.0	1.3	.3	.3	1.3	.0	.8	.3	10.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.7	.0	.7	.0	.0	.0	.0	.7	
TOT OBS	8	0	0	11	8	12	20	6	4	3	77	149
TOT PCT	3.4	.0	.0	7.4	3.4	8.1	13.4	4.0	2.7	2.0	31.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>3	>2	>1	>1/2	>1/4	>30YD	>0
>3500	3.9	4.6	4.6	4.6	4.6	4.6	4.6	4.6
>3000	7.2	8.6	8.6	8.6	8.6	8.6	8.6	8.6
>2500	17.8	21.7	21.7	21.7	21.7	21.7	21.7	21.7
>2000	25.0	29.6	29.6	29.6	29.6	29.6	29.6	29.6
>1500	27.6	34.2	34.2	34.2	34.2	34.9	35.3	35.3
>1000	32.2	40.1	40.8	41.4	41.4	42.1	42.8	42.8
>500	32.2	40.1	40.8	41.4	41.4	42.1	42.8	42.8
>150	32.2	40.1	40.8	41.4	41.4	42.1	42.8	42.8
>0	32.2	40.1	42.1	42.8	43.4	43.4	46.7	48.0
TOTAL	49	61	64	65	66	69	71	73

TOTAL NUMBER OF OBS: 132

PCT FREQ NH <5/8: 52.0

TABLE 7A

PERCENTAGE FREQ OF (CW CLOUDS (EIGHTHS))

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
19.0	7.0	12.0	8.2	3.1	3.7	10.8	9.5	19.0	3.8	138

PERIOD: (PRIMARY) 1964-1975
(OVER-ALL) 1967-1975

JULY

AREA 0013 SAMIA BLANCA
39.65 50.74

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9
	NO PCP	2.2	.6	1.0	.0	.0	.0	.0	2.1	.0	.0	.3	6.2
	TOT %	2.5	.6	1.0	.0	.0	.0	.0	2.1	.0	.0	.3	6.6
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.9	.3	.0	.0	.2	.2	.0	.2	.0	.0	.0	1.7
	TOT %	.9	.3	.0	.0	.2	.2	.0	.2	.0	.0	.0	1.7
1<2	PCP	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
	TOT %	.3	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	1.0
2<5	PCP	.3	.0	.0	.0	.5	.2	.0	.0	.0	.0	.0	1.0
	NO PCP	.7	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	1.0
	TOT %	1.0	.0	.0	.0	.5	.2	.0	.3	.0	.0	.0	2.1
5<10	PCP	.3	.3	.7	.0	.2	.5	1.0	.0	.0	.0	.0	3.1
	NO PCP	3.2	2.6	1.3	2.8	1.9	1.9	8.2	11.0	.0	.0	.0	34.8
	TOT %	3.5	2.9	2.0	2.8	2.1	2.4	9.2	11.0	.0	.0	.0	37.9
10+	PCP	.6	.0	.0	.0	.6	.1	.0	.0	.0	.0	.0	.7
	NO PCP	6.1	3.7	2.9	3.2	3.1	9.9	8.7	7.3	.0	1.0	1.0	30.0
	TOT %	6.1	3.7	2.9	3.2	3.7	10.0	8.7	7.3	.0	1.0	1.0	30.7
TOT OBS													290
TOT PCT		16.4	9.6	5.9	5.9	8.4	12.8	17.9	21.6	.0	1.4	100.0	

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.3	.3	.0	.0	.0	.0	.3	.0	.0	.0	1.0
	4-10	.8	.1	.5	.0	.0	.0	.0	.6	.0	.0	.0	2.0
	11-21	.8	.1	.0	.0	.0	.0	.0	.9	.0	.0	.0	1.8
	22+	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
	TOT %	1.8	.4	.8	.0	.0	.0	.0	1.8	.0	.0	.0	3.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.8
	11-21	.4	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.8
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.6	.3	.3	.0	.1	.1	.0	.1	.0	.0	.0	1.3
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
	4-10	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
	TOT %	.3	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	1.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
	4-10	.3	.4	.1	.3	.0	.0	.0	.0	.0	.0	.0	1.3
	11-21	.8	.0	.3	.0	.0	.0	.4	.3	.0	.0	.0	2.3
	22+	.0	.0	.0	.0	.4	.1	.4	.0	.0	.0	.0	.3
	TOT %	1.3	.4	.4	.3	.4	.8	.4	.3	.0	.0	.0	4.3
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
	4-10	1.1	1.7	.7	.0	.4	.6	2.6	2.7	.0	.0	.0	9.3
	11-21	2.7	.8	.3	1.9	.8	1.1	1.4	4.3	.0	.0	.0	13.4
	22+	.2	.3	.8	.3	.3	.3	3.3	1.1	.0	.0	.0	6.8
	TOT %	4.0	2.8	2.0	2.1	1.3	2.3	7.2	8.3	.0	.0	.0	30.2
10+	0-3	.0	.6	.2	.0	.0	.0	.0	.0	.0	1.3	.0	2.0
	4-10	1.1	1.8	2.3	1.8	2.1	3.3	3.3	2.1	.0	.0	.0	17.6
	11-21	4.8	2.9	.3	1.4	2.5	7.1	4.9	3.3	.0	.0	.0	29.2
	22+	.6	.3	.0	.9	1.3	1.7	2.2	1.6	.0	.0	.0	6.8
	TOT %	6.2	3.8	2.8	4.0	3.9	12.1	10.4	9.3	.0	1.3	.0	37.7
TOT OBS													397
TOT PCT		14.2	9.6	6.1	6.6	7.9	13.2	18.0	20.5	.0	1.8	100.0	

JULY

PERIOD: (PRIMARY) 1964-1975
(OVER-ALL) 1867-1975

AREA 0013 SANIA BLANCA
39.45 96.7W

TABLE 10

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

HR	000	150	300	600	1000	2000	3000	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	399	999	1999	3499	4999	6499	7999				
00003	.0	.0	.0	9.7	6.5	12.9	9.7	3.2	.0	.0	41.9	58.1	31
06009	9.7	.0	.0	.0	6.5	9.7	12.9	3.2	3.2	3.2	48.4	51.6	31
12015	6.1	.0	.0	6.1	6.1	8.2	14.3	2.0	6.1	2.0	51.0	49.0	49
18021	6.8	.0	.0	11.4	4.5	2.3	13.6	6.8	.0	2.3	47.7	52.3	44
TOT	9	0	0	11	9	12	20	6	4	3	74	81	159
PCT	5.8	.0	.0	7.1	5.8	7.7	12.9	3.9	2.6	1.9	47.7	52.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL
(GMT)							OBS
00003	5.8	.0	1.9	1.9	36.5	53.8	104
06009	8.5	1.4	1.4	5.6	23.9	59.2	71
12015	4.3	2.9	.7	5.0	28.1	59.0	139
18021	4.3	1.1	.0	5.3	35.1	54.3	94
TOT	22	6	4	18	127	231	408
PCT	5.4	1.5	1.0	4.4	31.1	56.6	100.0

TABLE 12

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

HR	<150 <5070	<600 <1	<1000 <5	1000+ AND 3+	NH <5/8 AND 3+	TOTAL OBS
(GMT)						
00003	.0	3.4	17.2	31.0	51.7	29
06009	9.7	9.7	12.9	38.7	48.4	31
12015	4.2	6.2	14.6	37.5	47.9	48
18021	6.8	6.8	18.2	29.5	52.3	44
TOT	8	10	24	52	76	152
PCT	5.3	6.6	13.8	34.2	50.0	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	.0	.0	.0	.5	.0	1	.5
59/59	.0	.0	.0	.0	.8	1.1	.5	1.1	6	3.2
50/54	.0	.0	.0	1.6	2.1	4.3	10.7	8.4	31	27.3
49/49	.0	.0	.0	1.1	2.7	11.2	13.0	13.0	99	52.9
40/44	.0	.0	.0	.0	2.1	3.2	2.7	8.0	30	18.0
TOTAL	0	0	0	3	14	37	35	76	187	100.0
PCT	.0	.0	.0	2.7	7.5	19.8	29.4	40.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0
59/59	.9	.3	.0	.3	.0	.0	.4	.8	.0	.0
50/54	6.0	2.4	.3	.0	.7	4.3	3.2	7.6	.0	.3
49/49	12.2	.7	3.6	5.3	5.3	3.5	8.0	14.3	.0	.0
40/44	1.1	1.1	.9	1.9	2.3	4.5	1.3	2.4	.0	.3
TOTAL	20.2	4.7	5.1	7.8	8.3	12.3	13.0	23.7	.0	1.1

TABLE 15

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

HR	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	62	55	53	47	42	40	38	46.9	368
06009	62	56	53	46	42	39	37	46.3	306
12015	60	57	54	48	42	39	36	47.8	770
18021	60	57	54	48	42	41	39	48.1	323
TOT	62	56	53	47	42	39	36	47.4	1969

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)										
00003	.0	4.2	4.2	16.7	27.1	47.9			87	48
06009	.0	.0	8.9	20.0	22.2	48.9			87	43
12015	.0	3.3	6.7	21.7	36.7	31.7			84	60
18021	.0	2.3	9.1	15.9	31.8	40.9			83	44
TOT	0	3	14	37	39	82			86	197

JULY

PERIOD: (PRIMARY) 1966-1975
(OVER-ALL) 1867-1975

AREA 0013 BAHIA BLANCA
39.4S 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	37 40	41 44	43 48	49 52	53 56	57 60	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.0	.7	.0	2	.0	.7
7/8	.0	.0	.0	1.0	1.0	.3	7	.0	2.4
6	.0	.0	.3	.3	.0	.0	2	.0	.7
5	.0	.0	1.0	1.0	1.0	.0	9	.3	2.7
4	.0	.0	4.1	2.4	.7	.3	22	3.1	4.5
3	.0	.0	5.8	3.4	2.1	.0	33	3.4	7.9
2	.0	1.0	8.2	3.4	2.4	.3	45	2.7	12.7
1	.0	.7	2.1	3.8	4.5	.0	32	1.4	9.6
0	.0	1.7	6.5	4.5	.7	.0	39	.7	12.7
-1	.0	1.0	1.7	3.4	.0	.0	18	1.4	4.8
-2	.0	2.1	1.4	4.1	.3	.0	23	.0	7.9
-3	.0	1.4	2.4	2.7	.0	.0	19	.3	6.2
-4	.3	1.4	2.4	.7	.0	.0	14	.0	4.8
-5	.0	.7	4.1	.7	.0	.0	16	.0	5.3
-6	.3	1.0	.7	.3	.0	.0	7	.0	2.4
-7/-8	.3	.0	.3	.0	.0	.0	2	.3	.3
-11/-13	.0	.3	.3	.0	.0	.0	2	.3	.3
TOTAL	3	121	93	39	3	3	292	41	251
PCT	1.0	11.3	41.4	31.8	13.4	1.0	100.0	14.0	86.0

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

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

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	1.9	1.4	1.1	1.1	.0	.0	.0	3.6
1-2	1.1	3.1	4.4	.0	.0	.0	9.8	.0	2.3	3.3	.0	.0	.0	9.8
3-4	.0	.0	3.9	.0	.0	.0	3.9	.0	1.4	.3	.0	.0	.0	1.7
5-6	.0	.0	1.1	.8	.0	.0	1.9	.0	1.1	.0	.0	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	3.0	9.4	.8	.0	.0	16.4	1.4	6.1	9.8	.0	.0	.0	13.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.1	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.8	.0	.0	.0	.0	.8	.0	1.4	1.1	.0	.0	.0	2.3
3-4	.0	4.2	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.8	.0	.0	.0	.8	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.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	.8	6.1	.8	.0	.0	.0	7.8	.0	1.4	1.4	.0	.0	.0	2.8

PERIOD: (OVER-ALL) 1963-1975

JULY

AREA 0013 BAHIA BLANCA
39.4E 56.7N

TABLE 18 (CONT)

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.3	2.2	.0	.0	.0	4.7	.0	1.1	.0	.0	.0	.0	1.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.8	3.6	.0	.0	.0	4.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.1	2.8	.0	.0	.0	3.9
7	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	2.2	.0	.0	.0	2.3
8-9	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.3	.0	.3
10-11	.0	.0	.0	.8	.0	.8	1.7	.0	.0	.0	.3	.0	.3	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	2.2	1.9	.8	.8	8.3	.0	3.2	8.6	.3	.3	.3	12.8

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.1	.0	.0	.0	.0	1.1	.0	1.4	.0	.0	.0	.0	1.4	
1-2	.0	1.1	.8	.0	.0	.0	1.9	.0	3.3	1.1	.0	.0	.0	4.4	
3-4	.0	1.9	1.7	.0	.0	.0	3.6	.0	1.4	2.9	.0	.0	.0	3.9	
5-6	.0	.8	1.1	.8	.0	.0	2.8	.0	.0	4.4	.8	.0	.0	5.0	
7	.0	.0	4.2	1.1	.0	.0	5.3	.0	.0	.3	.0	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.8	.0	1.1	
10-11	.0	.0	.0	.8	.0	.8	.8	.0	.0	.0	1.4	.8	.0	1.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.7	.8	.0	2.5	.0	.0	.8	.8	.3	.0	.8	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.8	.0	.8	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.8	.0	.8	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.8	.0	.8	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.8	.0	.8	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.8	.0	.8	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.8	.0	.8	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.8	.0	.8	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.8	.0	.8	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.8	.0	.8	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.8	.0	.8	
TOT PCT	.0	3.0	7.8	4.4	.8	.0	18.1	.0	6.1	9.4	2.5	.3	.0	18.3	

MIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.4	7.8	1.1	.0	.0	.0	.0	13.3
1-2	1.1	15.6	18.7	.0	.0	.0	.0	35.3
3-4	.0	10.0	11.1	.0	.0	.0	.0	21.1
5-6	.0	2.2	8.9	2.2	.0	.0	.0	13.3
7	.0	.0	6.7	2.2	.0	.0	.0	8.9
8-9	.0	.0	1.1	.0	1.1	.0	.0	2.2
10-11	.0	.0	.0	3.3	.0	1.1	.0	4.4
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	2.2	1.1	.0	.0	3.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.6	35.6	43.6	10.0	2.2	1.1	100.0	90

PERIOD: (OVER-ALL) 1951-1975

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	3.6	13.4	18.8	4.3	3.6	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	3
6-7	.0	1.8	6.3	9.8	6.3	3.6	1.8	.0	2.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	7
8-9	.0	.9	1.8	2.7	2.7	1.8	1.8	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	7
10-11	.0	.0	.0	.0	.9	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
INDET	.0	.9	.9	.3	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
TOTAL PCT	3.6	17.0	27.7	17.0	13.4	10.7	5.4	.9	3.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	112	5

PERIOD: (PRIMARY) 1906-1975
(OVER-ALL) 1971-1975

AUGUST

AREA 0013 BAHIA BLANCA
39.55 56.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	POG WQ PCPN	POG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	5.7	.0	1.6	.0	89.3
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	17.3	.0	5.3	.0	72.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31.3	.0	.0	.0	68.6
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18.2	.0	.0	.0	81.8
S	.0	.0	4.8	.0	.0	.0	.0	4.8	.0	.0	7.1	.0	.0	.0	88.1
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.9	.0	.0	.0	90.1
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	.0	1.3	.0	94.2
WN	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	3.4	.0	4.3	.0	88.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.0	.0	.4	.0	.0	.0	.0	.4	.0	1.3	8.9	.0	1.8	.0	87.5
TOT OBS:	224														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GNT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	POG WQ PCPN	POG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0803	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	8.8	.0	1.8	.0	86.0
0809	.0	.0	2.3	.0	.0	.0	.0	2.3	.0	.0	11.6	.0	2.3	.0	83.7
1203	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	2.9	.0	1.4	.0	94.2
1802	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.3	.0	1.7	.0	89.0
TOT PCT	.0	.0	.4	.0	.0	.0	.0	.4	.0	1.3	8.7	.0	1.7	.0	87.8
TOT OBS:	229														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT PRGQ	MEAN SPD	HOUR (GNT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.6	4.3	4.6	1.0	.4	.6	11.1	13.2	11.3	11.2	12.2	9.3	10.2	10.9	14.4	12.3
NE	.7	3.9	3.7	1.3	.1	.6	8.7	12.6	6.6	6.5	9.2	7.0	9.2	10.2	13.1	8.9
E	.6	2.3	1.8	.2	.3	.2	3.3	13.1	5.0	5.8	5.1	3.4	5.8	5.7	4.1	3.6
SE	.7	4.1	3.2	1.7	.7	.2	10.7	13.2	10.1	11.0	6.6	11.3	11.8	10.8	2.9	11.3
S	1.3	4.7	3.6	1.3	.3	.2	12.1	13.3	12.0	12.1	9.2	13.1	12.7	11.9	12.3	11.3
SW	1.3	3.7	4.4	1.8	1.0	.1	14.4	13.7	13.3	13.8	10.7	14.4	13.7	11.2	16.0	14.8
W	1.3	6.5	3.3	1.9	.4	.0	16.1	12.9	14.2	16.2	13.4	13.9	13.2	16.3	22.5	16.4
WN	1.1	6.6	3.6	3.2	.3	.0	19.9	14.3	13.6	13.9	23.3	21.9	18.3	20.9	11.1	20.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	13.4	3.0	1.3	2.0	1.6	.0	2.3	1.6	1.2
TOT OBS	197	763	692	251	76	14	1995		303	266	49	237	319	488	61	232
TOT PCT	9.9	38.3	34.7	12.6	3.8	.7	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT PRGQ	MEAN SPD	HOUR (GNT)							
	0-6	7-16	17-27	28-40				00	03	09	12	15	21		
N	2.1	3.7	2.3	.7	.1	11.1	13.2	11.2	9.8	10.6	13.3				
NE	2.3	3.7	2.1	.3	.1	8.7	12.6	7.6	7.4	9.8	9.4				
E	1.3	2.3	1.1	.1	.3	3.3	13.1	5.0	5.4	5.8	3.7				
SE	2.3	4.3	2.3	1.0	.4	10.7	13.2	10.3	10.3	11.2	9.7				
S	3.9	4.8	2.2	.8	.3	12.1	13.3	12.1	12.3	12.1	11.3				
SW	4.1	3.7	2.8	1.3	.2	14.4	13.7	13.6	13.3	12.9	13.0				
W	3.8	7.1	4.0	.9	.2	16.1	12.9	16.2	14.8	13.9	17.6				
WN	3.7	6.3	6.2	1.6	.1	19.9	14.3	13.2	22.3	20.0	16.6				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	1.8					1.8	13.4	3.0	1.3	2.0	1.6				
TOT OBS	312	841	464	143	35	1995		369	306	807	313				
TOT PCT	23.7	42.2	23.3	7.2	1.8	100.0		100.0	100.0	100.0	100.0				

PERIOD: (PRIMARY) 1966-1975
(OVER-ALL) 1971-1975

AUGUST

AREA 0013 BAHIA BLANCA
39.35 56.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (OPT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	2.2	7.7	38.1	26.4	9.8	4.7	.9	13.3	100.0	569
0600	1.6	8.5	41.2	31.7	12.7	3.6	.7	12.9	100.0	306
1215	1.7	8.1	37.3	34.7	14.0	3.6	.6	13.6	100.0	807
1821	1.3	8.3	38.7	34.5	13.7	2.9	.6	13.3	100.0	313
TOT	36	141	765	692	251	76	14	13.4		1995
PCT	1.8	8.1	38.3	34.7	12.6	3.8	.7	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.6	1.1	3.2	4.1		3.9
NE	.9	1.6	4.8	1.8		3.6
E	.0	.7	1.1	1.4		4.5
SE	1.8	.2	.4	2.9		3.1
S	3.3	2.7	1.2	1.1		3.6
SW	7.6	3.1	8.9	2.3		3.9
W	7.6	2.5	2.7	1.1		2.6
NW	9.8	2.8	4.8	2.3		3.1
VAR	.0	.0	.0	.0		.0
CALM	1.4	.7	.7	.0		2.2
TOT OBS	58	24	39	23	141	3.8
TOT PCT	39.0	17.0	27.7	16.3	100.0	

TABLE 6

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

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
.5	.0	.7	.4	1.2	.5	1.8	.5	.0	.0	.0	9.2
.2	.0	.0	.0	.7	2.3	.7	.2	.0	.0	.0	3.0
.0	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	1.8
.7	.0	.0	.2	.0	.7	.0	.0	.0	.0	.0	3.0
.0	.0	.0	.5	1.2	.5	.0	.0	.0	.0	.0	6.2
.7	.0	.0	.0	3.0	2.2	1.4	.0	.7	.0	.0	14.9
.0	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0	12.8
.0	.0	.0	1.1	1.1	.7	.4	.0	.0	.0	.0	16.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	2.1
.3	.0	1	4	12	12	6	1	1	1	100	141
2.1	.0	.7	2.8	8.5	8.5	4.3	.7	.7	.7	70.9	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>9	>8	>7	>6	>5	>4	>3
>OR >900	.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>OR >800	.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>OR >700	2.1	3.6	3.6	3.6	3.6	3.6	3.6	3.6
>OR >600	9.9	14.1	14.1	14.1	14.1	14.1	14.1	14.1
>OR >500	17.6	21.8	22.5	22.5	22.5	22.5	22.5	22.5
>OR >400	18.3	24.8	25.4	25.4	25.4	25.4	25.4	25.4
>OR >300	19.0	25.4	26.1	26.1	26.1	26.1	26.1	26.1
>OR >200	19.0	25.4	26.1	26.1	26.1	26.1	26.1	26.1
>OR >100	19.0	25.4	26.1	26.1	26.1	26.1	26.1	26.1
>OR >0	19.0	25.4	26.1	26.1	26.1	26.1	26.1	26.1
TOTAL	27	36	37	37	37	38	39	40

TOTAL NUMBER OF OBS: 142

PCT FREQ NH <5/8: 71.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
36.9	3.4	12.8	6.7	9.4	6.0	4.7	7.4	8.7	2.0	149

AUGUST

PERIOD: (PRIMARY) 1906-1975
(OVER-ALL) 1871-1975

APEA 0015 SANIA BLANCA
39.55 56.8W

TABLE 8

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

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	ND PCP	.3	.8	.2	.7	.7	1.8	.0	.0	.0	.0	.0	4.5
	TOT %	.3	.8	.2	.7	.7	1.8	.0	.0	.0	.0	.0	4.5
1/2<1	PCP	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4
	ND PCP	.4	.2	.2	.0	.0	.0	.4	.9	.0	.0	.0	2.7
	TOT %	.4	.2	.2	.0	.4	.0	.4	.9	.0	.0	.0	2.7
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	ND PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	ND PCP	.0	.9	.0	.0	.0	.4	.2	.2	.0	.0	.0	1.8
	TOT %	.0	.9	.0	.0	.0	.4	.2	.2	.0	.0	.0	1.8
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	ND PCP	4.4	1.8	1.8	1.7	2.1	5.6	5.3	6.5	.0	.4	.0	29.6
	TOT %	4.4	1.8	1.8	1.7	2.1	5.6	5.3	6.5	.0	.4	.0	29.6
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	ND PCP	8.2	4.6	1.3	2.5	6.2	14.8	9.4	13.0	.0	1.3	.0	61.4
	TOT %	8.2	4.6	1.3	2.5	6.2	14.8	9.4	13.0	.0	1.3	.0	61.4
TOT OBS													223
TOT PCT		19.3	8.3	3.6	4.9	9.4	22.6	15.4	20.6	.0	1.8	100.0	

TABLE 9

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

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.0	.1	.1	.0	.0	.3	.0	.0	.0	.8
	4-10	.0	.4	.1	.0	.0	1.1	.0	.3	.0	.0	.0	2.1
	11-21	.2	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.5
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.6	.1	.4	.4	1.1	.0	.3	.3	.0	.0	3.4
1/2<1	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
	4-10	.1	.1	.1	.0	.3	.0	.3	.4	.0	.0	.0	1.3
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.4	.3	.1	.0	.3	.0	.3	.3	.3	.0	.0	1.8
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3
	4-10	.3	.0	.0	.0	.0	.3	.4	.4	.0	.0	.0	1.3
	11-21	.1	.3	.0	.0	.0	.3	.0	.1	.0	.0	.0	1.1
	22+	.0	.3	.0	.0	.0	.7	.1	.0	.0	.0	.0	1.3
	TOT %	.4	1.1	.0	.3	.0	1.2	.3	.5	.3	.0	.0	3.9
5<10	0-3	.0	.8	.3	.0	.0	.3	.3	.0	.0	.3	.0	1.8
	4-10	1.8	1.3	1.4	1.2	.8	1.4	1.0	1.8	.0	.0	.0	10.8
	11-21	1.9	1.2	.3	.1	1.9	1.7	2.4	3.3	.0	.0	.0	12.9
	22+	.0	.0	.0	.0	.3	2.0	.4	.0	.0	.0	.0	2.8
	TOT %	3.8	3.3	2.0	1.3	3.0	5.4	4.0	5.3	.0	.3	.0	28.2
10+	0-3	.3	.0	.8	.3	.3	1.3	.9	.4	.0	1.1	.0	5.3
	4-10	2.4	1.1	1.2	2.8	3.2	3.3	3.6	3.9	.0	.0	.0	23.5
	11-21	2.9	2.4	.3	.1	2.7	5.4	4.9	5.1	.0	.0	.0	23.7
	22+	1.0	.3	.0	.3	1.0	2.0	.4	1.3	.0	.0	.0	7.9
	TOT %	6.8	3.7	2.2	3.3	7.2	14.1	11.4	12.6	.0	1.1	.0	62.8
TOT OBS													380
TOT PCT		11.7	8.9	4.5	9.4	10.8	21.7	16.3	19.3	.0	1.3	100.0	

AUGUST

PERIOD: (PRIMARY) 1954-1974
(OVER-ALL) 1971-1975

AREA 0013 SANIA BLANCA
39.3S 96.8W

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3000	5000	6500	8000+	TOTAL	MM <5/8 ANY HGT	TOTAL OBS
0000	.0	.0	.0	6.9	3.4	6.9	6.9	.0	.0	3.4	27.6	72.4	29
0600	3.1	.0	.0	.0	6.3	9.4	3.1	.0	.0	.0	21.9	78.1	32
1200	.0	.0	2.4	.0	14.3	4.8	2.4	.0	.0	.0	23.8	76.2	42
1800	4.5	.0	.0	4.5	6.8	11.4	4.5	2.3	2.3	.0	36.4	63.6	44
TOT	3	0	1	4	12	12	6	1	1	1	41	106	147
PCT	2.0	.0	.7	2.7	8.2	8.2	4.1	.7	.7	.7	27.9	72.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (MM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	3.7	1.9	.0	4.6	37.0	52.8	108
0600	4.0	2.7	.0	4.0	30.7	58.7	75
1200	.9	.0	.0	3.4	23.9	69.8	116
1800	3.8	3.3	.0	3.3	18.6	68.6	86
TOT	13	7	0	15	109	241	386
PCT	3.4	1.8	.0	3.9	28.3	62.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	MM <5/8 AND 5+	TOTAL OBS
0000	.0	.0	6.9	20.7	72.4	29
0600	3.4	3.4	3.4	20.7	75.9	29
1200	.0	2.4	4.8	19.0	76.2	42
1800	4.6	4.8	11.9	26.2	61.9	42
TOT	3	4	10	31	101	142
PCT	2.1	2.8	7.0	21.8	71.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.0	.0	.4	.4	1	.4
55/59	.0	.0	.0	.0	1.8	1.8	1.8	1.8	16	7.2
50/54	.0	.0	.0	.9	2.2	4.9	11.7	9.0	64	28.7
45/49	.0	.0	.0	.9	2.7	11.2	10.3	17.3	95	42.6
40/44	.0	.0	.4	.4	2.2	4.5	6.3	7.2	47	21.1
TOTAL	0	0	1	5	20	30	67	80	223	100.0
PCT	.0	.0	.4	2.2	9.0	22.4	30.0	35.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
1.1	1.0	.0	.0	.0	.6	1.5	3.0	.0	.0
4.8	1.7	.4	.0	1.1	3.9	7.7	7.0	.0	.0
8.3	4.3	1.3	1.3	4.1	7.2	6.4	8.1	.0	1.3
.8	1.3	1.1	3.1	2.4	3.4	4.0	2.3	.0	.4
15.2	8.7	2.9	4.3	7.6	19.1	19.6	20.3	.0	1.8

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	62	37	32	46	41	39	37	46.2	352
0600	66	36	32	48	40	39	37	43.7	304
1200	61	39	33	47	42	39	34	47.6	797
1800	61	39	36	48	42	40	39	48.3	308
TOT	66	38	34	47	41	39	34	47.0	1968

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	3.5	9.3	17.5	24.6	49.1	86	37		
0600	.0	.0	12.5	18.8	31.3	37.3	85	48		
1200	.0	.0	3.2	23.8	37.1	33.9	85	42		
1800	.0	6.7	13.0	26.7	26.7	23.0	60	60		
TOT	0	5	20	51	68	82	84	227		

AUGUST

PERIOD: (PRIMARY) 1966-1975
(OVER-ALL) 1971-1975

AREA 0013 SANJA BLANCA
39.32 96.04

TABLE 17

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

AIR-SEA TMP DIFF	41 44	45 48	49 52	53 56	57 60	61 64	TOT	% FOG	% FOG
14/16	.0	.0	.0	.5	.0	.0	1	.0	.5
9/10	.0	.0	.0	.5	.0	.5	2	.0	1.0
7/8	.0	.0	.0	1.0	.5	.0	3	.0	1.5
6	.0	.0	2.0	1.0	.5	.0	7	.5	3.1
5	.0	.0	2.0	1.0	1.0	.0	9	.5	4.1
4	.0	7.1	3.1	2.0	.0	.0	24	2.6	9.7
3	.0	2.0	1.5	1.0	.0	.0	9	.5	4.1
2	.0	0.6	0.1	.0	.0	.0	25	3.1	9.7
1	2.0	4.0	3.1	.0	.0	.0	19	1.5	8.2
0	7.1	6.1	3.1	.5	.0	.0	33	.5	16.3
-1	4.1	3.1	.0	.0	.0	.0	14	.5	6.6
-2	3.1	3.0	2.0	.0	.0	.0	18	.0	9.2
-3	2.0	3.1	1.0	1.0	.0	.0	14	.5	6.6
-4	.5	.5	.5	.0	.0	.0	3	.0	1.5
-5	.5	2.0	1.0	.0	.0	.0	7	.0	3.6
-6	.5	.5	.0	.0	.0	.0	2	.0	1.0
-7/-8	.5	.0	.0	.0	.0	.0	3	.0	1.5
-9/-10	.0	.0	1.0	.0	.0	.0	2	.0	1.0
-11/-13	.0	.5	.0	.0	.0	.0	1	.0	.5
TOTAL	40	80	54	17	4	1	196	20	17.6
PCT	20.4	40.8	27.6	8.7	2.0	.5	100.0	10.2	8.7

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

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

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	1.9	1.4	.0	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	
1-2	.0	2.8	.0	.0	.0	.0	2.8	.0	3.7	.0	.0	.0	.0	
3-4	.0	1.4	1.9	.0	.0	.0	3.2	.0	.5	.0	.0	.0	.0	
5-6	.0	.0	.0	2.8	.0	.0	2.8	.0	.0	.0	.0	.0	.0	
7	.0	.0	2.8	.0	1.4	.0	4.2	.0	.0	2.3	.0	.0	2.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	1.9	
12	.0	.0	.0	1.9	.0	.0	1.9	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.9	3.6	4.8	4.8	1.4	.0	18.1	.0	4.2	4.2	.0	.0	8.3	

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.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	
3-4	1.9	.0	.0	.0	.0	.0	1.9	.0	.0	.5	.0	.0	.5	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
8-9	.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	
12	.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	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.9	.0	.0	.0	.0	.0	1.9	.0	.0	.9	.0	.0	.9	

PERIOD: (OVER-ALL) 1963-1975

AUGUST

AREA 0213 BAYLA BLANCA
39.35 30.84

TABLE 18 (CONT)

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

HGT	5						PCT	SM						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.2	.0	.0	.0	3.2	.0	5.0	.5	.0	.0	.0	.0	1.0
3-4	.0	1.4	3.2	.0	.0	.0	4.6	.0	7.0	1.0	.0	.0	.0	.0	9.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0
7	.0	.0	1.4	1.9	.0	.0	3.2	.0	.0	1.0	.0	.0	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	7.9	1.9	.0	.0	11.1	.0	15.3	4.2	2.3	.0	.0	21.8	

HGT	M						PCT	SM						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.8	1.4	.0	.0	.0	4.2	.0	1.9	2.3	.0	.0	.0	.0	4.2
3-4	.0	.0	2.8	.0	.0	.0	2.8	.0	5.0	4.0	.0	.0	.0	.0	10.2
5-6	.0	.0	3.7	.0	.0	.0	3.7	.0	.0	1.9	.9	.0	.0	.0	2.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5	.0	.0	.9
8-9	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	1.9	.0	.0	.0	.0	1.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	.5	.0	.0	.0	.0	.5
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.8	9.3	1.4	.0	.0	13.4	.0	7.9	11.6	.9	.5	.0	20.8	66.3

MIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.0	3.7	.0	.0	.0	.0	9.3	
1-2	.0	16.7	7.4	.0	.0	.0	24.1	
3-4	1.9	16.7	14.8	.0	.0	.0	33.3	
5-6	.0	.0	7.4	3.7	.0	.0	11.1	
7	.0	.0	7.4	3.7	1.9	.0	13.0	
8-9	.0	.0	1.9	1.9	.0	.0	3.7	
10-11	.0	.0	1.9	.0	.0	.0	1.9	
12	.0	.0	.0	1.9	.0	.0	1.9	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	1.9	.0	.0	.0	1.9	
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	7.4	37.0	42.6	11.1	1.9	.0	100.0	34

PERIOD: (OVER-ALL) 1950-1975

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	13.2	17.6	7.7	1.1	2.2	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	4
6-7	.0	3.3	7.7	5.5	4.4	6.6	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	6
8-9	.0	.0	.0	2.2	3.3	4.4	3.3	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	8
10-11	.0	.0	.0	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
12-13	.0	.0	1.1	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
>13	.0	.0	.0	1.1	1.1	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
INDET	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
TOTAL	1	13	24	18	10	12	5	5	0	1	0	0	0	0	0	0	0	0	0	0	91	5
PCT	1.1	16.3	26.4	19.8	11.0	13.2	5.5	5.5	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1968-1973
(OTHER-ALL) 1968-1973

AREA 0013 SANTA BLANCA
39.85 37.14

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZM PCPN	HAUL	PCPN AT 00 TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.5	.5	.0	.0	.0	.0	.0	1.1	1.1	.5	27.9	.0	.4	.5	60.5
NE	8.0	.7	.7	.0	.0	.0	.0	7.5	3.7	.7	31.7	.7	.0	.0	56.3
E	4.7	.0	7.0	.0	.0	.0	.0	11.7	1.8	.0	15.8	.0	.0	.0	78.0
SE	7.3	.0	.0	.0	.0	.0	.0	7.3	.4	2.4	7.3	.0	.0	.0	82.3
S	1.7	.0	.0	.0	.0	.0	.0	1.7	2.9	.0	18.7	.0	.0	.0	84.7
SW	.0	.0	.0	.0	.0	.0	.0	1.6	.2	.0	4.1	.0	1.3	.0	92.9
W	1.1	1.0	.0	.0	.0	.0	.0	2.7	.0	.0	6.4	.0	.0	.0	91.0
NW	2.5	.0	.0	.0	.0	.0	.0	2.5	.0	.0	3.4	.0	.3	.0	93.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4	.0	.0	.0	.0	.0	.0	2.4	.0	.0	28.6	.0	.0	.0	89.0
TOT PCT	2.4	.6	.5	.0	.0	.0	.0	3.4	1.2	.5	16.5	.1	.4	.1	78.1
TOT OBS:	843														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZM PCPN	HAUL	PCPN AT 00 TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	2.0	.5	.5	.0	.0	.0	.0	3.0	.5	.5	22.6	.0	.0	.0	73.4
0400	2.6	1.1	1.6	.0	.0	.0	.0	5.3	1.1	1.1	13.7	.5	.0	.0	78.9
1201	1.6	.4	.0	.0	.0	.0	.0	2.0	1.4	.4	17.5	.0	.0	.4	78.5
1821	3.3	.5	.0	.0	.0	.0	.0	3.8	1.4	.0	11.0	.0	1.4	.0	81.5
TOT PCT	2.4	.6	.5	.0	.0	.0	.0	3.4	1.2	.5	16.5	.1	.4	.1	78.1
851															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS):						TOTAL OBS	PCT MEAN SPD	HOUR (GMT)										
	0-3	4-10	11-21	22-33	34-47	48+			00	03	06	09	12	15	18	21			
N	.4	6.2	7.5	1.3	.7	.0	15.9	12.7	17.1	9.1	21.7	12.4	16.8	12.7	22.5	13.4			
NE	.4	6.9	4.2	.7	.2	.0	12.5	11.9	17.4	11.9	18.8	8.1	15.2	11.7	14.9	9.0			
E	.9	3.1	1.8	.5	.2	.1	6.2	11.8	6.6	7.9	3.9	5.6	4.8	7.4	3.1	6.6			
SE	1.3	4.6	3.9	1.5	.2	.0	11.9	12.2	13.2	15.8	4.1	15.8	6.4	12.8	4.4	19.6			
S	.9	3.7	4.2	1.8	.3	.1	10.8	13.8	9.5	12.5	4.5	13.1	9.6	14.0	7.9	13.9			
SW	1.1	5.9	6.6	1.8	.7	.1	15.8	14.0	19.5	14.7	17.7	14.0	15.0	12.3	22.4	12.4			
W	.6	4.8	4.5	.4	.0	.0	10.3	11.0	6.9	11.7	14.3	10.3	11.6	8.9	3.6	9.2			
NW	.9	6.0	7.9	1.2	.4	.1	14.0	13.1	10.4	14.6	8.8	19.0	14.5	18.5	9.7	14.7			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	3.0						3.0	.0	3.5	2.2	6.3	1.8	2.0	1.7	6.0	3.1			
TOT OBS	209	966	912	220	50	8	2365	12.3	425	226	191	224	451	420	199	229			
TOT PCT	8.8	40.8	38.6	9.3	2.1	.3	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT MEAN SPD	HOUR (GMT)							
	0-6	7-14	17-27	28-40	41+	00			03	06	09	12	15	18	21	
N	3.6	7.9	3.9	.3	.0		15.9	12.7	14.3	16.7	15.8	17.6				
NE	2.8	7.4	2.0	.1	.1		12.5	11.9	11.4	13.1	13.5	11.4				
E	2.1	2.9	.8	.2	.2		6.2	11.8	7.0	4.8	6.1	6.6				
SE	3.5	4.9	2.4	.6	.1		11.9	12.2	14.1	10.4	10.5	10.5				
S	2.5	4.5	3.0	.3	.2		10.8	13.8	10.3	9.1	11.8	10.9				
SW	3.7	7.2	3.5	1.2	.3		19.8	14.0	17.9	15.7	13.7	17.1				
W	2.8	5.4	2.0	.2	.0		10.3	11.0	9.9	12.1	10.3	9.3				
NW	2.8	7.4	2.9	.7	.2		14.0	13.1	11.8	14.3	16.4	12.1				
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0				
CALM	3.0						3.0	.0	3.1	3.9	1.8	4.4				
TOT OBS	632	1125	482	97	29	2365	12.3		651	415	871	428				
TOT PCT	26.7	47.6	20.4	4.1	1.2	100.0			100.0	100.0	100.0	100.0				

SEPTEMBER

PERIOD: (PRIMARY) 1976-1975
(COVER-ALL) 1968-1975

AREA 0013 SANTA BLANCA
39.85 57.14

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SNWR	DRZL	FRZG PCPN	SNOW	OTHER FRZG PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	TPOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG MEA
N	.5	.5	.0	.0	.0	.0	.0	1.2	1.2	.5	27.9	.0	.4	.5	68.5
NE	3.0	.7	.7	.0	.0	.0	.0	7.5	3.7	.7	31.7	.7	.0	.0	56.3
E	4.7	.0	7.0	.0	.0	.0	.0	11.7	1.8	.0	15.8	.0	.0	.0	70.8
SE	7.3	.0	.0	.0	.0	.0	.0	7.3	.0	2.4	7.3	.0	.0	.0	82.3
S	1.7	.0	.0	.0	.0	.0	.0	1.7	2.9	.0	10.7	.0	.0	.0	84.7
SW	.0	.9	.0	.0	.0	.0	.0	1.0	.2	.0	4.1	.0	1.3	.0	92.9
W	1.1	1.0	.0	.0	.0	.0	.0	2.7	.0	.0	6.4	.0	.0	.0	91.0
NW	2.5	.0	.0	.0	.0	.0	.0	2.5	.0	.0	3.4	.0	.3	.0	93.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALP	2.4	.0	.0	.0	.0	.0	.0	2.4	.0	.0	28.6	.0	.0	.0	89.0
TOT PCT	2.4	.6	.5	.0	.0	.0	.0	3.4	1.2	.5	16.5	.1	.4	.1	78.1
TOT OBS:	843														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SNWR	DRZL	FRZG PCPN	SNOW	OTHER FRZG PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	TPOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG MEA
0003	2.0	.5	.5	.0	.0	.0	.0	3.0	.5	.5	22.6	.0	.0	.0	73.4
0609	2.6	1.1	1.6	.0	.0	.0	.0	5.3	1.1	1.1	13.7	.5	.0	.0	78.9
1215	1.6	.4	.0	.0	.0	.0	.0	2.0	1.6	.4	17.5	.0	.0	.4	78.5
1821	3.3	.5	.0	.0	.0	.0	.0	3.8	1.4	.0	11.8	.0	1.4	.0	81.5
TOT PCT	2.4	.6	.5	.0	.0	.0	.0	3.4	1.2	.5	16.5	.1	.4	.1	78.1
851															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	HOUR (GMT)			
	0-3	4-10	11-21	22-33	34-47	48+	09							12	15	18	21
N	.6	6.2	7.9	1.3	.7	.0		15.9	12.7	17.1	9.1	21.7	12.4	18.8	12.7	22.5	13.4
NE	.4	6.9	4.2	.7	.2	.0		12.5	11.9	11.4	11.5	18.8	8.1	15.2	11.7	14.9	9.0
E	.3	3.1	1.8	.5	.2	.1		6.2	11.8	6.6	7.9	3.9	5.6	4.8	7.4	3.1	9.6
SE	1.3	4.6	3.9	1.5	.2	.0		11.5	12.2	13.2	15.8	4.1	15.8	6.4	12.8	4.4	15.6
S	.9	3.7	4.2	1.8	.3	.1		10.8	13.8	9.5	12.5	4.5	13.1	9.6	14.0	7.9	13.5
SW	1.1	5.5	6.6	1.8	.7	.1		15.8	14.0	19.5	14.7	17.7	14.0	15.0	12.3	22.4	12.4
W	.6	4.8	4.5	.4	.0	.0		10.3	11.0	8.9	11.7	14.3	10.3	11.6	8.9	3.0	9.2
NW	.5	6.0	4.9	1.2	.4	.1		14.0	13.1	10.4	14.6	8.8	19.0	14.5	18.5	9.7	14.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALP	3.0							3.0	.0	3.5	2.2	6.3	1.8	2.0	1.7	6.0	3.1
TOT OBS	209	966	912	220	50	8	2365		12.3	425	226	191	224	451	420	199	229
TOT PCT	8.8	40.8	38.6	9.3	2.1	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-6	7-14	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	3.6	7.9	3.9	.5	.0		15.9	12.7	14.3	16.7	15.8	17.6		
NE	2.8	7.4	2.0	.1	.1		12.5	11.5	11.4	13.1	13.5	11.4		
E	2.1	2.9	.8	.2	.2		6.2	11.8	7.0	4.8	6.1	6.6		
SE	3.5	4.9	2.4	.6	.1		11.5	12.2	14.1	10.4	10.5	10.5		
S	2.5	4.5	3.0	.5	.2		10.8	13.8	10.5	9.1	11.8	10.0		
SW	3.7	7.2	3.5	1.2	.3		15.8	14.0	17.9	15.7	13.7	17.1		
W	2.8	5.4	2.0	.2	.0		10.3	11.0	9.9	12.1	10.3	9.3		
NW	2.8	7.4	2.9	.7	.2		14.0	13.1	11.8	14.3	16.4	12.1		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALP	3.0						3.0	.0	3.1	3.9	1.8	4.4		
TOT OBS	632	1125	482	97	29	2365		12.3	651	415	871	428		
TOT PCT	26.7	47.6	20.4	4.1	1.2		100.0		100.0	100.0	100.0	100.0		

SEPTEMBER

PERIOD: (PRIMARY) 1908-1975
(OVER-ALL) 1908-1975

AREA 0013 BAHIA BLANCA
39.05 97.1W

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.4	.1	.2	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	9.6	4.0	.8	.3	.5	.5	.2	.3	.0	1.3	13.6	
	TOT %	9.7	4.3	.9	.6	.5	.5	.2	.3	.0	1.3	14.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.4	
1<2	PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.1	.2	.0	.0	.1	.0	.0	.0	.0	.0	.4	
	TOT %	.1	.4	.0	.0	.1	.0	.0	.0	.0	.0	.6	
2<5	PCP	.0	.4	.2	.0	.1	.2	.1	.0	.0	.1	1.1	
	NO PCP	1.9	1.0	.0	.0	.1	1.0	.3	.1	.0	.1	4.1	
	TOT %	1.9	1.3	.2	.0	.2	1.1	.4	.1	.0	.2	5.2	
5<10	PCP	.1	.1	.2	.1	.0	.1	.1	.1	.0	.0	1.0	
	NO PCP	9.3	2.8	1.0	1.7	2.1	4.9	2.3	2.5	.0	.5	23.2	
	TOT %	9.4	2.9	1.2	1.9	2.1	5.1	2.4	2.6	.0	.5	24.1	
10+	PCP	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	NO PCP	9.9	6.4	2.5	2.3	3.9	12.3	6.1	6.6	.0	3.0	59.0	
	TOT %	9.9	6.5	2.5	2.3	3.9	12.3	6.1	6.7	.0	3.0	59.2	
TOT OBS													829
TOT PCT		22.6	15.5	4.9	4.8	7.0	19.1	11.3	9.7	.0	5.1	100.0	

TABLE 9

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

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.3	.0	.1	.0	.0	.0	.0	.1	.0	1.2	1.7	
	4-10	1.4	2.3	.5	.3	.5	.4	.2	.2	.0		5.8	
	11-21	2.6	1.2	.2	.3	.1	.0	.0	.1	.0		4.6	
	22+	.9	.4	.0	.0	.0	.0	.0	.0	.0		1.3	
	TOT %	5.3	4.0	.9	.6	.6	.5	.2	.3	.0	1.2	13.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.1	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.1	.1	.0	.0		.2	
	22+	.0	.2	.1	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.2	.1	.0	.0	.1	.2	.0	.0	.0	.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.2	.0	.0	.1	.1	.0	.0	.0		.6	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.2	.1	.0	.0	.0	.0	.0	.0		.3	
	TOT %	.2	.5	.1	.0	.1	.1	.0	.0	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.4	.6	.1	.0	.0	.1	.1	.1	.0		1.3	
	11-21	.9	.7	.1	.0	.2	.7	.3	.0	.0		3.0	
	22+	.1	.2	.2	.0	.0	.2	.0	.0	.0		.7	
	TOT %	1.3	1.5	.4	.0	.2	1.0	.4	.1	.0	.2	5.2	
5<10	0-3	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	.9	
	4-10	1.9	1.2	.3	.8	.7	1.5	1.1	1.3	.0		8.8	
	11-21	2.9	1.3	.3	.8	.8	2.7	1.0	1.5	.0		11.5	
	22+	.2	.5	.4	.2	.6	.4	.1	.0	.0		2.3	
	TOT %	5.0	2.9	1.3	2.1	2.0	4.6	2.2	2.7	.0	.4	13.5	
10+	0-3	.1	.1	.4	.2	.1	.3	.0	.2	.0	2.9	4.4	
	4-10	4.5	4.1	1.4	1.5	1.5	4.5	4.0	4.8	.0		26.3	
	11-21	4.6	2.3	.8	1.2	2.1	3.8	4.4	2.2	.0		23.3	
	22+	.2	.4	.0	.3	.2	1.0	.0	.1	.0		2.3	
	TOT %	9.4	6.9	2.5	3.3	3.9	11.8	8.4	7.3	.0	2.9	56.4	
TOT OBS													908
TOT PCT		21.3	15.9	5.2	6.0	6.8	18.1	11.4	10.4	.0	4.7	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1958-1975
(OVER-ALL) 1879-1975

AREA 0013 BAHIA BLANCA
39.85 57.1W

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	27.3	.0	2.2	.7	4.3	5.0	.7	.7	2.9	1.4	45.3	54.7	139
0600	17.3	.7	1.4	2.2	7.2	7.2	.0	.7	.7	2.2	39.6	60.4	139
1200	17.8	.0	.0	1.4	8.9	10.3	.0	.0	1.9	.9	41.1	58.9	214
1800	11.5	.0	1.0	2.6	5.2	15.2	1.0	.0	.0	2.6	39.3	60.7	191
TOT	172	1	7	12	45	68	3	2	9	12	281	402	683
PCT	17.9	.1	1.0	1.8	6.6	10.0	.4	.3	1.3	1.8	41.1	58.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	17.5	.9	1.4	5.5	35.9	38.7	217
0600	11.8	1.0	1.5	7.4	28.9	49.5	204
1200	13.7	.4	.4	3.7	14.4	67.4	270
1800	10.2	.4	.9	4.4	17.3	66.7	225
TOT	122	6	9	47	215	517	916
PCT	13.3	.7	1.0	5.1	23.5	56.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50VD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
0000	32.2	35.6	39.0	13.6	47.5	118
0600	18.8	21.1	30.5	17.2	52.3	128
1200	16.9	18.8	21.7	21.3	57.0	207
1800	11.3	13.4	19.9	20.4	59.7	186
TOT	118	133	167	120	352	639
PCT	18.5	20.8	26.1	18.8	55.1	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	.3	.0	.0	.0	.0	1	.3
60/64	.0	.0	.0	.0	.0	.0	.7	.0	2	.7
55/59	.0	.3	.0	.9	1.7	.7	2.6	1.0	20	6.6
50/54	.0	.0	.0	.3	1.7	4.6	10.9	7.6	76	25.2
45/49	.0	.0	.0	.3	3.3	8.6	19.2	19.5	154	51.0
40/44	.0	.0	.0	.0	1.0	3.0	4.6	7.6	49	16.2
TOTAL	0	1	0	4	23	31	115	108	302	100.0
PCT	.0	.3	.0	1.3	7.6	16.9	38.1	35.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
60/64	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0
55/59	1.2	1.3	.5	.8	.0	.3	.7	1.8	.0	.0
50/54	5.0	3.7	4.6	1.3	1.5	2.6	3.5	2.6	.0	.3
45/49	7.6	4.7	3.2	3.1	7.9	7.9	7.0	7.0	.0	2.6
40/44	.7	.5	2.2	1.3	4.5	4.2	1.5	1.3	.0	.0
TOTAL	14.6	10.9	10.4	6.5	14.2	13.1	12.6	12.7	.0	3.0

TABLE 15

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

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	59	58	54	47	42	38	34	47.0	851
0600	58	55	52	46	42	40	38	46.8	419
1200	64	60	56	48	43	41	37	48.7	851
1800	68	61	57	50	43	41	39	49.8	412
TOT	68	59	55	48	42	39	34	48.1	2333

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	1.4	1.2	12.3	35.6	42.5	86	73		
0600	.0	.0	1.4	17.6	41.9	35.1	86	74		
1200	.0	1.2	9.6	16.9	34.9	37.3	85	83		
1800	.0	3.9	6.5	20.8	41.6	27.3	83	77		
TOT	0	5	23	52	118	109	85	307		

SEPTEMBER

PERIOD: (PRIMARY) 1968-1975
(OVER-ALL) 1868-1975

AREA 0013 BAHIA BLANCA
39.85 57.14

TABLE 17

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

ATR-SEA TMP DIF	33 38	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	% FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.2
14/16	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.2	.4	1.0	.1	14	.0	1.7
9/10	.0	.0	.0	.0	.2	1.9	.5	.0	22	.2	2.4
7/8	.0	.0	.0	.2	1.7	3.8	1.0	.0	34	.8	5.6
6	.0	.0	.0	.1	2.8	1.3	.0	.0	35	1.4	2.8
5	.0	.0	.0	.6	6.2	.7	.2	.0	65	7.0	5.7
4	.0	.0	.0	4.5	4.7	.5	.0	.0	81	2.0	7.7
3	.0	.0	.0	4.2	5.9	.4	.0	.0	71	2.4	8.1
2	.0	.0	.6	9.7	1.9	.6	.0	.0	107	2.0	10.8
1	.0	.0	.5	10.8	1.8	.2	.0	.0	111	7.3	11.0
0	.0	.0	.6	9.7	1.8	.4	.0	.0	104	1.2	11.2
-1	.0	.0	1.4	2.9	1.7	.0	.0	.0	50	1.0	5.0
-2	.0	.0	1.6	3.5	1.1	.1	.0	.0	52	.4	5.9
-3	.0	.0	1.1	.8	.5	.1	.0	.0	21	.2	2.3
-4	.0	.0	1.1	.6	.0	.0	.0	.0	14	.4	1.3
-5	.0	.0	.2	.6	.1	.0	.0	.0	4	.0	1.0
-6	.0	.0	.2	.2	.0	.0	.0	.0	4	.1	.4
-7/-8	.0	.5	.6	.0	.1	.0	.0	.0	10	.1	1.1
-9/-10	.0	.2	.0	.0	.0	.0	.0	.0	2	.0	.2
-11/-13	.6	.1	.1	.0	.0	.0	.0	.0	7	.0	.8
-14/-16	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
TOTAL	5	7	67	240	85	23	3	139	836	16.6	83.4
PCT	.6	.8	8.0	48.6	28.7	10.2	2.8	.4	100.0	16.6	83.4

PERIOD: (OVER-ALL) 1968-1975

TABLE 18

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

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.2	.9	.2	.0	.0	.0	1.3	.2	.5	.0	.0	.0	.0	.0	.7	
1-2	.0	2.2	1.3	.0	.0	.0	4.5	.0	5.0	.8	.0	.0	.0	.0	5.7	
3-4	.0	2.6	3.6	.0	.0	.0	6.2	.0	1.7	2.2	.0	.0	.0	.0	4.0	
5-6	.0	.2	2.7	.2	.0	.0	4.1	.0	.2	2.5	.3	.0	.0	.0	2.9	
7	.0	.0	2.1	.3	.0	.0	2.4	.0	.0	1.6	.7	.2	.0	.0	2.6	
8-9	.0	.2	.6	.4	.0	.0	1.2	.0	.0	.0	.3	.0	.0	.0	.3	
10-11	.0	.2	.0	.0	.0	.0	.2	.0	.1	.4	.4	.0	.0	.0	.8	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	7.4	11.3	.8	.0	.0	19.9	.2	7.4	7.6	1.7	.2	.0	.0	17.1	

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.4	.0	.0	.0	.0	.0	.4	.5	1.0	.0	.0	.0	.0	.0	1.5	
1-2	.3	1.1	.0	.0	.0	.0	1.4	.1	.5	.3	.0	.0	.0	.0	.8	
3-4	.0	.2	.2	.0	.0	.0	.4	.0	.1	.6	.0	.0	.0	.0	.7	
5-6	.0	.2	.8	.4	.0	.0	1.3	.0	.0	.4	.0	.0	.0	.0	.4	
7	.0	.0	.2	.2	.0	.0	.4	.0	.0	.2	.0	.0	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	1.3	1.2	.6	.0	.0	4.0	.4	1.6	1.5	.2	.0	.0	.0	3.9	

PERIOD: (OVER-ALL) 1963-1975

SEPTEMBER

AREA 0013 BAHIA BLANCA
39.0S 57.1W

TABLE 18 (CONT)

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

HGT	S						PCT	SW						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.4	.0	.0	.0	.0	.4	.6	1.3	.0	.0	.0	.0	.0	1.9
1-2	.0	.7	1.3	.0	.0	.0	2.0	.0	2.7	.8	.0	.0	.0	.0	3.5
3-4	.0	.7	1.0	.0	.0	.0	1.7	.0	1.8	4.3	.0	.0	.0	.0	6.3
5-6	.0	.0	.5	.2	.0	.0	.7	.0	.2	3.1	.3	.0	.0	.0	3.6
7	.0	.0	.4	.2	.0	.0	.5	.0	.0	1.1	.5	.2	.0	.0	1.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.8	.2	.0	.0	2.1
10-11	.0	.0	.0	.9	.0	.0	.9	.0	.0	.2	.7	.2	.0	.0	1.1
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.2	.0	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	3.3	1.3	.0	.0	6.3	.6	6.1	10.8	2.3	.6	.0	.0	20.6

HGT	M						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.2	.9	.1	.0	.0	.0	.0	1.1
1-2	.0	2.7	1.0	.0	.0	.0	3.7	.0	2.3	.8	.0	.0	.0	.0	3.1
3-4	.0	1.2	2.7	.0	.0	.0	3.9	.0	1.4	1.6	.0	.0	.0	.0	3.0
5-6	.0	.4	2.8	.0	.0	.0	2.9	.0	.1	.6	.0	.0	.0	.0	.8
7	.0	.0	.5	.0	.0	.0	.5	.0	.2	.4	.0	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.9	6.7	.0	.0	.0	11.5	.2	4.9	3.7	.0	.0	.0	.0	8.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.2	5.8	.2	.0	.0	.0	16.2	
1-2	.0	18.0	6.2	.0	.0	.0	24.9	
3-4	.0	9.3	16.4	.0	.0	.0	23.9	
5-6	.0	1.2	14.1	1.2	.0	.0	16.6	
7	.0	.2	6.4	1.9	.4	.0	8.9	
8-9	.0	.2	1.9	1.3	.2	.0	3.7	
10-11	.0	.2	.8	2.3	.2	.0	3.3	
12	.0	.0	.2	.2	.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	10.8	35.3	46.1	7.1	.8	.0	100.0	482

PERIOD: (OVER-ALL) 1949-1975

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		
4.5	1.4	8.1	13.5	7.8	2.2	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	200	4	
6-7	.0	1.0	2.7	5.2	3.5	2.4	1.7	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	99	6
8-9	.0	.2	1.9	1.5	.8	.3	1.2	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	6
10-11	.0	.8	.8	.8	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	4
12-13	.0	.0	1.0	.2	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	5
13	.0	.0	.0	1.0	.8	.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	7
INDET	6.8	9.6	7.4	4.9	4.1	1.4	1.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	213	3
TOT	4.8	11.7	16.2	12.7	7.0	2.9	2.9	.7	2	.0	.0	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	592	4
PCT	8.1	19.8	27.4	21.5	11.8	4.2	3.9	1.2	.3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1907-1975
(OVER-ALL) 1867-1975

APEA 0013 BAHIA BLANCA
39.7S 57.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG MEA
N	1.9	2.5	3.1	.0	.0	.0	.0	6.6	1.6	.0	10.1	1.3	1.6	.0	78.9
NE	.3	.5	.3	.0	.0	.0	.0	.8	1.8	2.0	8.9	.0	.8	.0	85.7
E	14.5	7.4	.9	.0	.0	.0	.0	22.8	4.3	.9	8.2	.0	1.5	.0	53.1
SE	1.4	2.2	1.1	.0	.0	.0	.0	4.6	3.8	.0	5.2	.0	1.1	.0	85.2
S	2.3	2.6	1.3	.0	.0	.0	.0	6.2	7.5	1.3	2.2	.0	1.3	.0	81.4
SW	2.8	1.3	.0	.0	.0	.0	.0	4.1	.3	1.3	12.2	.0	2.5	.0	79.7
W	.0	4.2	2.1	.0	.0	.0	.0	6.3	4.2	.0	13.7	.0	.0	.0	75.8
NW	2.9	.0	.6	.0	.0	.0	.0	3.4	3.4	2.3	18.4	.0	.6	.0	71.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	85.7
TOT PCT	3.9	2.8	1.1	.0	.0	.0	.0	7.6	3.3	.9	8.8	.5	1.2	.0	77.9
TOT OBS:	646														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG MEA
0000	2.8	2.1	.7	.0	.0	.0	.0	5.7	3.5	1.4	9.9	.7	.7	.0	78.0
0600	2.0	2.0	2.0	.0	.0	.0	.0	6.1	2.7	2.0	13.5	.7	.7	.0	75.0
1200	3.2	2.9	1.2	.0	.0	.0	.0	8.7	4.1	.0	8.7	.0	1.7	.0	76.7
1800	4.6	4.1	.5	.0	.0	.0	.0	9.2	3.1	.5	3.1	.5	1.5	.0	80.0
TOT PCT	3.8	2.9	1.1	.0	.0	.0	.0	7.6	3.4	.9	9.0	.5	1.2	.0	77.6
TOT OBS:	656														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.0	3.5	6.0	1.1	.1	.0	13.7	11.9	13.3	17.0	13.3	17.5	10.7	12.8	9.5	15.0
NE	.9	4.2	3.2	.9	.0	.0	11.4	12.1	14.9	9.5	12.6	7.3	11.0	10.5	16.3	8.8
E	.6	3.8	4.3	1.0	.4	.0	10.3	13.1	12.2	6.3	15.4	4.4	11.6	8.9	16.9	8.4
SE	.7	3.3	4.3	1.0	.0	.0	11.4	11.9	9.7	9.7	15.1	11.4	11.6	10.0	17.5	10.2
S	.8	4.8	3.2	1.8	.7	.0	13.3	14.1	13.8	15.8	14.1	13.2	12.8	11.5	9.9	16.7
SW	1.3	3.0	4.1	2.2	1.3	.0	12.8	15.1	13.3	15.0	12.4	14.1	15.3	13.8	11.0	14.0
W	.5	4.5	3.7	.8	.4	.0	9.2	12.4	7.1	9.0	4.9	10.3	9.7	11.2	9.6	9.8
NW	.8	3.4	3.5	1.3	.1	.0	13.1	12.1	9.9	13.3	8.2	16.4	13.6	17.2	7.5	14.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.7						3.7	.0	3.7	4.4	4.0	5.4	3.5	4.0	1.7	2.8
TOT OBS	222	805	791	207	63	0	2088	12.4	332	206	149	223	367	396	179	216
TOT PCT	10.6	38.6	37.9	9.9	3.0	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	3.2	7.4	2.8	.2	.1	13.7	11.9	13.3	17.0	13.3	17.5	10.7	12.8	9.5	15.0
NE	2.7	5.3	2.9	.3	.0	11.4	12.1	14.9	9.5	12.6	7.3	11.0	10.5	16.3	8.8
E	2.6	9.1	1.8	.6	.1	10.3	13.1	12.2	6.3	15.4	4.4	11.6	8.9	16.9	8.4
SE	3.0	3.3	2.8	.2	.0	11.4	11.9	9.7	9.7	15.1	11.4	11.6	10.0	17.5	10.2
S	3.5	5.0	3.6	1.1	.1	13.3	14.1	13.8	15.8	14.1	13.2	12.8	11.5	9.9	16.7
SW	3.5	3.1	2.8	2.0	.4	12.8	15.1	13.3	15.0	12.4	14.1	15.3	13.8	11.0	14.0
W	2.3	4.7	1.5	.6	.1	9.2	12.4	7.1	9.0	4.9	10.3	9.7	11.2	9.6	9.8
NW	3.3	6.5	3.0	.3	.1	13.1	12.1	9.9	13.3	8.2	16.4	13.6	17.2	7.5	14.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.7					3.7	.0	3.7	4.4	4.0	5.4	3.5	4.0	1.7	2.8
TOT OBS	589	930	444	113	18	2088	12.4	332	206	149	223	367	396	179	216
TOT PCT	27.9	44.5	21.3	5.4	.9	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1907-1975
(OVER-ALL) 1867-1975

OCTOBER

AREA 0013 BAHIA BLANCA
39.7S 57.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOURL	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00603	3.9	8.2	39.8	35.5	9.5	3.0	.0	12.0	100.0	558	
06609	4.8	5.4	34.4	35.5	12.6	3.2	.0	13.1	100.0	372	
12615	3.8	7.3	40.6	35.8	9.0	3.4	.0	12.2	100.0	763	
18621	2.3	5.6	36.7	43.8	9.6	2.0	.0	12.8	100.0	395	
TOT	78	144	805	791	207	63	0	12.4		2088	
PCT	3.7	6.9	38.6	37.9	9.9	3.0	.0	100.0			

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & E	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	3.6	2.6	2.8	2.6		4.3
NE	4.4	1.1	3.8	6.8		5.3
E	2.6	.9	4.8	9.8		6.3
SE	1.3	1.2	6.3	5.5		6.2
S	1.6	1.6	4.1	2.5		5.5
SW	3.6	1.8	3.1	4.6		5.0
W	2.8	2.6	1.3	1.6		4.2
NH	2.3	1.1	1.3	2.1		4.6
VAR	.2	.4	.0	.0		.0
CALM	.2	.4	.9	.0		4.5
TOT OBS	105	62	132	163	464	5.5
TOT PCT	22.6	13.4	28.4	35.6	100.0	

TABLE 6

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

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	.0	.0	.5	1.6	1.1	.2	.2	.6	.2	7.1	
NE	1.6	.0	.2	.0	3.1	3.0	.5	.1	.7	.2	6.7	
E	1.6	.0	.0	2.1	5.3	3.7	1.0	.4	.0	.2	3.8	
SE	1.1	.0	.0	1.2	3.7	3.7	.6	.4	.0	.0	3.8	
S	.4	.0	.0	.4	3.2	1.6	.5	.0	.0	.2	3.5	
SW	2.7	.0	.0	.0	2.2	1.2	.8	.0	.0	.0	6.4	
W	.6	.0	.0	.2	.6	.6	.0	.0	.0	.2	6.1	
NH	.8	.0	.0	.4	.8	.4	.2	.0	.0	.0	4.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.2	.2	.2	.0	.0	.0	.9	
TOT OBS	9.1	.0	.2	4.7	20.7	15.5	3.9	1.1	1.8	1.1	42.5	
TOT PCT	9.1	.0	.2	4.7	20.7	15.5	3.9	1.1	1.8	1.1	42.5	

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>8000	1.7	2.4	2.4	2.4	2.4	2.4	2.4	2.4
>5000	2.2	3.5	3.5	3.5	3.5	3.5	3.5	3.5
>3500	4.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
>2000	9.8	18.3	21.0	21.6	21.6	21.6	21.6	21.6
>1000	16.2	35.2	40.6	41.9	42.4	42.4	42.4	42.6
>600	16.8	37.6	44.8	46.1	46.9	46.9	47.2	47.2
>300	16.8	37.6	45.0	46.3	47.2	47.2	47.4	47.4
>150	16.8	37.6	45.0	46.3	47.2	47.2	47.4	47.4
>0	16.8	37.6	47.8	49.1	50.7	52.2	55.9	46.3
TOTAL	77	172	219	225	232	239	256	258

TOTAL NUMBER OF OBS: 458

PCT FREQ NH <5/8: 43.7

TABLE 7A

PERCENTAGE FREQ OF LCL CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.9	8.6	8.8	7.4	5.0	4.0	7.4	13.9	23.7	8.4	502

OCTOBER

PERIOD: (PRIMARY) 1907-1975
(OVER-ALL) 1967-1975

APEA 0013 BAHIA BLANCA
39.75 57.5W

TABLE 17

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

AIR-SEA TMP DIF	33	37	41	45	49	53	57	61	65	69	TOT	N FOG	WD FOG
	36	40	44	48	52	56	60	64	68	72			
14/16	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	2	.0	.3
11/13	.0	.0	.0	.0	.0	.0	1.1	.3	.2	.0	10	.2	1.4
9/10	.0	.0	.0	.0	.0	.5	1.7	.5	.0	.2	18	.0	2.9
7/8	.0	.0	.0	.0	.6	1.3	1.3	1.0	.0	.0	26	.3	3.8
4	.0	.0	.0	.2	.2	1.0	.3	.2	.0	.0	11	.3	1.4
5	.0	.0	.0	.2	2.2	2.4	1.1	.0	.0	.0	37	.5	5.4
4	.0	.0	.0	.2	3.3	3.2	.6	.2	.0	.0	47	1.0	6.5
3	.0	.0	.0	.0	4.4	1.3	.6	.0	.0	.0	40	1.4	4.9
2	.0	.0	.0	2.5	6.0	2.4	.5	.0	.0	.0	72	1.1	10.3
1	.0	.0	.2	1.9	4.8	2.1	.3	.0	.0	.0	58	.3	8.9
0	.0	.0	.4	5.5	4.8	1.6	.0	.2	.0	.0	78	1.3	11.1
-1	.0	.0	1.0	3.2	2.4	.6	.2	.0	.0	.0	46	.3	7.0
-2	.0	.0	.2	8.6	2.5	.6	.0	.0	.0	.0	75	1.1	10.8
-3	.0	.0	.5	2.7	1.0	.2	.0	.0	.0	.0	27	.3	4.0
-4	.0	.0	.3	2.4	1.1	.2	.2	.0	.0	.0	26	.6	3.5
-5	.0	.0	1.0	1.0	.3	.0	.0	.0	.0	.0	14	.2	2.1
-6	.0	.0	.2	1.1	.0	.0	.0	.0	.0	.0	8	.0	1.3
-7/-8	.0	.0	1.1	1.9	.0	.0	.2	.0	.0	.0	20	.2	3.0
-9/-10	.0	.6	.3	.0	.0	.2	.0	.0	.0	.0	7	.2	1.0
-11/-13	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	2	.0	.3
-14/-16	.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	7	.7	1.0
TOTAL	4		37		212		51		1		631		372
PCT	.6	1.3	5.1	31.2	33.6	17.4	8.1	2.4	.2	.2	100.0	9.4	90.6

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

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

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	.9	.0	.0	.0	.0	.9	.3	.0	.0	.0	.0	.0	.3
1-2	.0	1.5	1.4	.0	.0	.0	2.8	.3	2.7	.5	.0	.0	.0	3.5
3-4	.0	.6	2.5	.9	.0	.0	4.0	.0	1.0	3.8	.1	.0	.0	4.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	1.4
7	.0	.3	.3	.0	.0	.0	.6	.0	.0	3.2	.8	.0	.0	4.0
8-9	.0	.0	.6	.2	.0	.0	.9	.0	.0	.6	.6	.0	.0	1.3
10-11	.0	.0	.2	.3	.0	.0	.6	.0	.0	.3	.3	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	5.0	1.3	.0	.0	9.8	.6	3.7	9.8	1.9	.0	.0	16.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	.3	.0	.0	.0	.0	.3	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	1.3	1.0	.0	.0	.0	2.3	.3	2.9	.6	.0	.0	.0	3.9
3-4	.0	.8	1.3	.0	.0	.0	3.3	.0	.9	1.0	.0	.0	.0	1.9
5-6	.0	.2	4.0	.0	.0	.0	4.3	.0	.1	2.2	.1	.0	.0	2.3
7	.0	.0	2.4	1.1	.0	.0	3.5	.0	.0	3.4	1.3	.0	.0	4.7
8-9	.0	.0	.6	.0	.0	.0	.6	.0	.0	1.3	1.0	.0	.0	2.3
10-11	.0	.0	.0	.6	.6	.0	1.2	.0	.0	1.0	.1	.0	.0	1.0
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	9.6	2.0	1.0	.0	10.9	.3	5.5	9.5	2.4	.0	.0	17.7

OCTOBER

PERIOD: (PRIMARY) 1967-1975
(OVER-ALL) 1867-1975

APEA 0013 SANIA BLANCA
39.75 57.5W

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	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	M FOG	MD FOG
14/16	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	2	.0	.3
11/13	.0	.0	.0	.0	.0	1.1	.3	.2	.0	.0	10	.2	1.4
9/10	.0	.0	.0	.0	.0	.5	1.7	.5	.0	.2	18	.6	2.9
7/8	.0	.0	.0	.0	.6	1.3	1.3	1.0	.0	.0	26	.3	3.8
4	.0	.0	.0	.2	.2	1.0	.3	.2	.0	.0	11	.3	1.4
5	.0	.0	.0	.2	2.2	2.4	1.1	.0	.0	.0	37	.5	5.4
4	.0	.0	.0	.2	3.3	3.2	.6	.2	.0	.0	47	1.0	6.5
3	.0	.0	.0	.0	4.4	1.3	.6	.0	.0	.0	40	1.4	4.9
2	.0	.0	.0	2.5	8.0	2.4	.5	.0	.0	.0	72	1.1	10.3
1	.0	.0	.2	1.9	4.8	2.1	.3	.0	.0	.0	58	.3	8.9
0	.0	.0	.3	5.5	4.8	1.6	.0	.2	.0	.0	78	1.3	11.1
-1	.0	.0	1.0	3.2	2.4	.6	.2	.0	.0	.0	46	.3	7.0
-2	.0	.0	.2	8.6	2.5	.6	.0	.0	.0	.0	75	1.1	10.8
-3	.0	.0	.5	2.7	1.0	.2	.0	.0	.0	.0	27	.3	4.0
-4	.0	.0	.3	2.4	1.1	.2	.2	.0	.0	.0	26	.6	3.5
-5	.0	.0	1.0	1.0	.3	.0	.0	.0	.0	.0	14	.2	2.1
-6	.0	.0	.2	1.1	.0	.0	.0	.0	.0	.0	8	.0	1.3
-7/-8	.0	.0	1.1	1.9	.0	.0	.2	.0	.0	.0	20	.2	3.0
-9/-10	.0	.6	.3	.0	.0	.2	.0	.0	.0	.0	7	.2	1.0
-11/-13	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	2	.0	.3
-14/-16	.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	7	.7	1.0
TOTAL	4	8	32	197	212	110	51	15	1	631	37	572	
PCT	.6	1.3	5.1	31.2	33.6	17.4	8.1	2.4	.2	100.0	9.4	90.6	

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

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

HGT	N						PCT	NE						PCT		
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.9	.0	.0	.0	.0	.9	.3	.0	.0	.0	.0	.0	.0	.0	.3
1-2	.0	1.3	1.4	.0	.0	.0	2.8	.3	2.7	.5	.0	.0	.0	.0	.0	3.5
3-4	.0	.6	2.5	.9	.0	.0	4.0	.0	1.0	3.8	.1	.0	.0	.0	.0	4.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	1.4
7	.0	.3	.3	.0	.0	.0	.6	.0	.0	3.2	.8	.0	.0	.0	.0	4.0
8-9	.0	.0	.6	.3	.0	.0	.9	.0	.0	.8	.8	.0	.0	.0	.0	1.3
10-11	.0	.0	.2	.3	.0	.0	.8	.0	.0	.3	.3	.0	.0	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	5.0	1.5	.0	.0	9.8	.6	3.7	9.8	1.9	.0	.0	.0	.0	16.0

HGT	E						PCT	SE						PCT		
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.3	.0	.0	.0	.0	.3	.0	1.6	.0	.0	.0	.0	.0	.0	1.6
1-2	.0	1.3	1.0	.0	.0	.0	2.3	.3	2.9	.6	.0	.0	.0	.0	.0	3.9
3-4	.0	1.8	1.5	.0	.0	.0	3.3	.0	.9	1.0	.0	.0	.0	.0	.0	1.9
5-6	.0	.2	4.0	.0	.0	.0	4.3	.0	.1	2.2	.1	.0	.0	.0	.0	2.3
7	.0	.0	2.4	1.1	.0	.0	3.5	.0	.0	3.4	1.3	.0	.0	.0	.0	4.7
8-9	.0	.0	.6	.0	.0	.0	.6	.0	.0	1.3	1.0	.0	.0	.0	.0	2.3
10-11	.0	.0	.0	.6	.6	.0	1.2	.0	.0	1.0	.1	.0	.0	.0	.0	1.0
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	9.6	2.0	1.0	.0	10.9	.3	3.5	9.3	2.4	.0	.0	.0	.0	17.7

OCTOBER

PERIOD: (PRIMARY) 1907-1975
(OVER-ALL) 1867-1975

AREA 0013 BAHIA BLANCA
39.75 57.54

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	9.9	.0	.0	3.3	16.7	13.2	2.2	.0	2.2	3.3	52.7	47.3	91
0600	16.3	.0	.0	3.3	15.2	12.0	.0	1.1	.0	1.1	48.9	51.1	92
1200	9.6	.0	.7	7.4	25.0	11.8	5.9	.7	.7	.0	61.8	38.2	136
1800	3.1	.0	.0	3.7	19.6	20.2	4.9	1.8	1.8	.6	55.9	44.2	163
TOT	42	0	1	22	97	72	18	5	6	5	268	214	482
PCT	8.7	.0	.2	4.6	20.1	14.9	3.7	1.0	1.2	1.0	55.6	44.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	3.0	3.0	1.8	12.4	31.4	48.5	169
0600	8.7	1.2	.6	8.1	35.4	46.0	161
1200	5.0	2.0	2.5	8.5	39.3	48.8	201
1800	3.3	.9	1.4	10.8	31.0	52.6	213
TOT	36	13	12	74	243	366	744
PCT	4.8	1.7	1.6	9.9	32.7	49.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50VD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
0000	10.5	11.6	25.6	29.1	45.3	86
0600	17.1	18.3	25.6	24.4	50.0	82
1200	9.8	11.4	23.5	38.6	37.9	132
1800	3.2	5.1	17.1	41.1	41.8	158
TOT	41	48	101	161	196	458
PCT	9.0	10.5	22.1	35.2	42.8	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
65/69	.0	.0	.0	.0	.4	.0	.0	.0	1	.4
60/64	.0	.0	.0	.7	1.1	1.3	2.2	.0	15	5.3
55/59	.0	.0	.0	.0	1.1	7.3	7.6	4.4	56	20.4
50/54	.0	.0	.0	.0	1.8	4.0	18.2	13.1	102	37.1
45/49	.0	.0	.0	.4	1.8	6.2	7.6	13.1	80	29.1
40/44	.0	.0	.0	.4	2.2	1.1	2.9	1.1	21	7.6
TOTAL	0	0	0	4	22	36	106	87	278	100.0
PCT	.0	.0	.0	1.5	8.0	20.4	38.5	31.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
60/64	1.8	.5	.7	.4	.0	.1	.6	1.3	.0	.0
55/59	5.9	4.4	1.5	.4	2.0	1.6	2.4	2.2	.0	.0
50/54	8.3	5.2	6.3	1.5	3.3	4.3	4.4	4.0	.0	.0
45/49	3.5	1.6	5.8	3.7	5.5	5.8	2.4	.8	.0	.0
40/44	.8	1.0	.0	.4	3.3	2.2	.0	.0	.0	.0
TOTAL	20.3	13.1	14.4	6.3	14.0	14.0	9.7	8.3	.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
0000	64	62	58	50	44	41	34	50.1	552
0600	66	59	57	49	43	39	34	49.1	371
1200	69	65	61	51	45	41	34	51.8	746
1800	69	64	61	52	45	41	34	52.3	382
TOT	69	64	59	50	44	41	34	51.0	2051

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.0	10.1	17.4	37.7	34.8	85	69		
0600	.0	.0	9.4	14.1	40.6	35.9	85	64		
1200	.0	1.3	4.0	32.0	34.7	28.0	83	75		
1800	.0	4.1	9.6	16.4	38.4	31.5	83	75		
TOT	0	4	23	57	106	91	84	261		

PERIOD: (OVER-ALL) 1963-1975

OCTOBER

AREA 0013 BAHIA BLANCA
39.75 57.5W

TABLE 18 (CONT)

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

HGT	S							PCT	SW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.0	.6	.0	.0	.0	.0	.6	1.0	1.4	.3	.0	.0	.0	.0	2.7	
1-2	.3	.6	.0	.0	.0	.0	1.6	.1	.6	1.0	.0	.0	.0	.0	1.7	
3-4	.0	.2	1.9	.0	.0	.0	2.1	.0	.4	.7	.6	.0	.0	.0	1.8	
5-6	.0	.0	4.4	.2	.0	.0	4.6	.0	.0	1.9	.0	.0	.0	.0	1.9	
7	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	.8	.0	.0	.0	.0	.8	
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	1.0	.6	.0	.0	1.6	
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.3	
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.7	.3	.0	.0	1.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	1.5	9.3	.8	.0	.0	11.9	1.0	2.7	5.2	3.0	1.3	.0	12.8		

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	1.0	.4	.0	.0	.0	.0	.0	1.4	
1-2	.0	2.0	.6	.0	.0	.0	2.8	.0	.7	.1	.0	.0	.0	.0	.8	
3-4	.0	1.2	.6	.0	.0	.0	1.8	.0	.6	.9	.0	.0	.0	.0	1.5	
5-6	.0	.0	.0	.3	.0	.0	.3	.0	.0	.3	.3	.0	.0	.0	.6	
7	.0	.0	.3	.0	.3	.0	.6	.0	.0	.3	.3	.0	.0	.0	.6	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.3	.0	.0	.0	.7	
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	3.2	1.5	.8	.3	.0	5.9	1.0	1.8	2.1	1.0	.0	.0	5.8	96.8	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.5	5.2	.3	.0	.0	.0	11.0	
1-2	1.3	12.3	5.8	.0	.0	.0	19.4	
3-4	.0	6.8	12.9	1.6	.0	.0	21.3	
5-6	.0	.3	14.2	1.0	.0	.0	15.5	
7	.0	.3	12.9	3.5	.3	.0	17.1	
8-9	.0	.0	3.5	3.5	.6	.0	7.7	
10-11	.0	.0	2.3	1.6	.6	.0	4.5	
12	.0	.0	.0	1.3	.3	.0	1.6	
13-16	.0	.0	.0	.3	1.0	.0	1.3	
17-19	.0	.0	.0	.0	.3	.0	.3	
20-22	.0	.0	.0	.3	.0	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	24.8	51.9	13.2	3.2	.0	100.0	310

PERIOD: (OVER-ALL) 1950-1975

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	7.3	9.0	7.1	4.4	2.0	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	4	
6-7	.3	1.7	6.4	5.9	8.8	4.4	2.0	.0	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	122	6
8-9	.0	.0	1.2	2.0	3.4	1.5	2.2	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	7
10-11	.0	.0	.2	.7	2.4	1.2	.2	.5	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	8
12-13	.0	.0	.2	.2	.2	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
>13	.0	.0	.0	2.0	2.2	.0	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	7
INDET	3.2	2.0	2.7	2.9	1.7	.5	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	4
TOTAL	22	45	81	85	93	39	25	6	6	2	3	0	0	0	0	0	0	0	0	0	409	5	
PCT	5.4	11.0	19.8	20.8	23.2	9.5	6.1	1.3	1.5	.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0		

PERIOD: (PRIMARY) 1907-1975
(OVER-ALL) 1860-1975

NOVEMBER

AREA 0013 BAHIA BLANCA
39.95 57.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.8	1.3	.0	.0	.0	.0	.0	5.1	.0	4.8	9.7	.8	.6	.0	79.7
NE	5.8	1.1	.0	.0	.0	.0	.0	6.9	.7	2.2	12.7	.2	.0	.0	79.5
E	1.5	.0	2.0	.0	.0	.0	.0	3.5	3.0	4.5	18.6	1.5	3.5	.0	64.8
SE	3.6	.0	.0	.0	.0	.0	.0	3.8	.6	.6	8.9	.0	.6	.0	86.1
S	2.5	.0	.0	.0	.0	.0	.0	2.5	2.3	.0	4.1	.0	.0	.0	90.2
SW	2.2	4.4	1.3	.0	.0	.0	.0	8.0	1.5	1.3	4.7	.0	.0	.0	85.8
W	2.2	.0	.0	.0	.0	.0	.0	2.2	.0	.0	13.4	.0	.0	.0	84.3
NW	3.1	.0	.0	.0	.0	.0	.0	3.1	1.4	3.1	11.6	.0	.3	.0	82.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.4	.0	.0	.0	.0	.0	.0	5.4	2.7	3.4	10.8	.0	2.7	.0	73.0
TOT PCT	3.6	1.0	.3	.0	.0	.0	.0	4.9	1.1	3.0	10.3	.3	.8	.0	80.5
TOT OBS:	610														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	4.4	.7	.0	.0	.0	.0	.0	5.2	.7	4.4	11.9	.0	.7	.0	79.3
0600	5.0	1.9	.6	.0	.0	.0	.0	7.5	1.3	6.3	8.1	.8	.8	.0	76.9
1200	1.9	.0	.6	.0	.0	.0	.0	2.5	2.5	.8	13.0	.8	.0	.0	80.7
1800	3.1	1.3	.0	.0	.0	.0	.0	4.4	.6	.8	8.1	.0	1.9	.0	85.0
TOT PCT	3.6	1.0	.3	.0	.0	.0	.0	4.9	1.3	2.9	10.2	.3	.8	.0	80.5
TOT OBS:	616														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	1.0	6.8	7.1	1.6	.2	.0	16.7	12.4	14.2	14.1	22.2	16.9	18.9	15.8	18.1	14.1
NE	.8	4.3	9.6	1.1	.2	.0	14.2	11.9	20.9	12.6	14.7	10.1	13.0	11.1	18.1	13.7
E	.7	3.7	2.3	.2	.0	.0	7.0	9.6	6.7	6.5	9.1	5.0	3.4	8.1	6.3	7.7
SE	1.4	4.4	3.1	.6	.1	.0	9.6	10.4	12.0	10.6	7.9	12.8	9.1	7.1	6.3	11.3
S	.9	4.3	3.6	1.2	.4	.3	10.9	13.9	10.4	11.4	4.8	10.0	11.8	11.7	11.1	13.6
SW	1.3	4.1	3.3	1.6	.6	.2	11.3	14.2	11.3	11.0	12.5	9.9	10.6	11.1	13.8	11.8
W	1.0	4.5	2.8	.7	.1	.0	9.2	11.0	9.1	8.2	3.7	11.9	7.2	11.0	9.0	10.7
NW	.9	7.1	6.7	2.4	.2	.0	17.3	13.0	11.0	21.8	14.8	20.9	19.9	21.3	11.4	14.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.8						3.8	.0	4.5	1.8	8.6	2.7	4.0	2.7	4.6	3.1
TOT OBS	233	888	741	702	40	12	2136	11.8	353	220	162	222	376	404	174	233
TOT PCT	11.8	41.6	34.7	1.3	1.9	.6	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40					00	03	06	09	12	15	18	21
N	3.4	9.0	3.6	.6	.1	16.7	12.4	14.9	19.1	17.3	15.9					
NE	3.3	7.8	2.7	.4	.1	14.2	11.9	17.7	12.0	12.0	15.6					
E	2.3	3.9	.6	.0	.0	7.0	9.6	6.6	6.7	6.8	8.0					
SE	3.2	4.8	1.4	.3	.0	9.6	10.4	11.4	10.5	8.0	9.2					
S	2.9	4.6	2.3	.7	.4	10.9	13.9	10.8	7.7	11.7	12.5					
SW	3.0	4.7	2.2	1.1	.3	11.3	14.2	11.2	11.0	10.9	12.7					
W	2.9	4.3	1.7	.3	.0	9.2	11.0	8.8	9.3	9.2	9.5					
NW	3.1	9.1	4.4	.8	.4	17.3	13.0	15.1	18.4	20.7	12.9					
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	3.8					3.8	.0	3.5	5.2	3.3	3.8					
TOT OBS	596	1029	402	90	19	2136	11.8	573	384	280	399					
TOT PCT	27.9	48.2	18.8	4.2	.9	100.0		100.0	100.0	100.0	100.0					

NOVEMBER

PERIOD: (PRIMARY) 1907-1975
(SECONDARY) 1960-1975

AREA 0013 SANJA BLANCA
29.85 57.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEEDS (KNOTS)			40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	3.9	9.9	40.7	34.7	8.4	2.1	.7	11.0	100.0	373
0400Z	5.2	8.9	40.9	38.6	8.6	2.1	.8	11.7	100.0	384
1201Z	3.3	8.4	42.3	34.1	11.2	2.2	.3	12.3	100.0	780
1822Z	3.0	7.8	42.1	36.8	8.3	.8	.3	11.4	100.0	399
TOT	3.1	172	888	741	202	40	12	11.0		2134
PCT	3.0	8.1	41.6	34.7	9.3	1.9	.6	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER	PCT FREQ OF CEILING HEIGHTS (FT, MM >4/8) AND OCCURRENCE OF NH <3/8 BY WIND DIRECTION										
							000	100	300	400	1000	2000	3000	4000	6000	8000+	NH <3/8 ANY HGT	TOTAL OBS
N	8.7	3.7	5.1	3.1		3.6	1.4	.0	.0	.2	1.3	1.4	.5	.4	.2	.4	14.2
NE	6.8	2.2	3.6	3.7		4.1	1.2	.0	.1	1.3	1.6	2.2	.3	.2	.0	.0	10.1
E	1.8	.2	1.6	4.1		3.7	.8	.0	.3	.2	1.0	2.0	.4	.4	.0	.0	2.6
SE	1.0	.4	2.3	1.4		3.0	.3	.0	.0	.5	1.5	.4	.2	.1	.0	.0	3.2
S	0.0	.6	2.7	1.2		3.1	.0	.0	.0	.7	.6	.7	.4	.0	.2	.4	7.4
SW	3.0	1.8	3.6	.9		3.3	.2	.0	.0	.1	1.3	.9	.6	.2	.0	.4	7.4
W	3.3	1.2	.9	1.3		2.1	.4	.0	.0	.4	.4	.4	.3	.0	.0	.2	3.2
NW	0.7	1.2	3.2	1.8		3.2	.6	.0	.0	.0	.3	1.8	.8	.5	.0	.2	9.1
VAD	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7	.8	1.3	1.7		3.6	.8	.0	.0	.2	.4	1.3	.0	.0	.0	.0	3.8
TOT OBS	281	57	116	100	474	3.8	27	.0	2	13	42	33	14	8	3	9	209
TOT PCT	42.4	12.0	24.3	21.1	100.0		3.7	.0	.4	3.2	8.9	11.2	3.0	1.7	1.1	1.9	63.1

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, MM >4/8)
AND OCCURRENCE OF NH <3/8 BY WIND DIRECTION

000	100	300	400	1000	2000	3000	4000	6000	8000+	NH <3/8 ANY HGT	TOTAL OBS
149	299	399	999	1099	3499	4999	6499	7999			
1.4	.0	.0	.2	1.3	1.4	.5	.4	.2	.4	14.2	
1.2	.0	.1	1.3	1.6	2.2	.3	.2	.0	.0	10.1	
.8	.0	.3	.2	1.0	2.0	.4	.4	.0	.0	2.6	
.3	.0	.0	.5	1.5	.4	.2	.1	.0	.0	3.2	
.0	.0	.0	.7	.6	.7	.4	.0	.2	.4	7.4	
.2	.0	.0	.1	1.3	.9	.6	.2	.0	.4	7.4	
.4	.0	.0	.4	.4	.4	.3	.0	.0	.2	3.2	
.6	.0	.0	.0	.3	1.8	.8	.5	.0	.2	9.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.8	.0	.0	.2	.4	1.3	.0	.0	.0	.0	3.8	
27	0	2	13	42	33	14	8	3	9	209	474
3.7	.0	.4	3.2	8.9	11.2	3.0	1.7	1.1	1.9	63.1	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)								
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >30YD	= OR >0	= OR >0
= OR >3000	2.1	2.6	3.0	3.0	3.0	3.0	3.0	3.0	3.0
= OR >2000	2.8	4.3	4.7	4.7	4.7	4.7	4.7	4.7	4.7
= OR >1500	4.9	7.2	7.7	7.7	7.7	7.7	7.7	7.7	7.7
= OR >1000	11.2	17.2	18.1	18.1	18.1	18.1	18.1	18.1	18.1
= OR >500	16.8	24.3	26.6	26.6	26.6	26.6	26.6	26.6	26.6
= OR >400	18.1	26.2	29.4	29.4	29.4	29.4	29.4	29.4	29.4
= OR >300	18.1	28.2	29.8	29.8	29.8	29.8	29.8	29.8	29.8
= OR >150	18.1	28.2	29.8	29.8	29.8	29.8	29.8	29.8	29.8
= OR >0	18.1	28.2	29.8	29.8	29.8	29.8	29.8	29.8	29.8
TOTAL	63	123	144	148	150	167	168	168	168

TOTAL NUMBER OF OBS: 474

PCT FREQ NH <3/8: 64.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
38.6	9.3	3.4	3.4	4.0	3.0	3.4	3.0	13.1	3.4	497

NOVEMBER

PERIOD: (PRIMARY) 1907-1975
(OVER-ALL) 1860-1975

AREA 0013 BAHIA BLANCA
39.33 57.2W

TABLE 8

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

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.9	1.3	.7	.3	.2	.2	.3	.3	.0	.2	4.4	
	TOT %	.9	1.3	.7	.3	.2	.2	.3	.3	.0	.2	4.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	NO PCP	.1	.5	.4	.1	.1	.0	.0	.0	.0	.0	1.1	
	TOT %	.1	.5	.4	.1	.1	.3	.0	.0	.0	.0	1.4	
1<2	PCP	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.2	.2	.2	.0	.1	.0	.0	.0	1.0	
	TOT %	.1	.0	.3	.2	.2	.0	.1	.0	.0	.0	1.3	
2<3	PCP	.7	.3	.0	.2	.2	.0	.0	.0	.0	.3	2.0	
	NO PCP	1.1	2.1	1.0	.5	.0	.9	.3	.9	.0	.2	7.2	
	TOT %	1.8	2.4	1.0	.7	.2	.9	.3	.9	.0	.5	9.2	
3<10	PCP	.2	.3	.0	.0	.0	.2	.0	.2	.0	.0	1.0	
	NO PCP	2.8	3.0	1.6	1.3	1.5	2.0	.8	1.8	.0	1.1	16.4	
	TOT %	3.0	3.3	1.6	1.3	1.5	2.1	.8	1.9	.0	1.1	17.4	
10+	PCP	.1	.3	.2	.0	.0	.4	.0	.2	.0	.0	1.3	
	NO PCP	13.4	10.1	4.0	3.9	7.9	7.3	4.1	8.7	.0	3.6	64.9	
	TOT %	13.5	10.4	4.1	3.9	7.9	7.7	4.2	8.9	.0	3.6	66.2	
TOT OBS													609
TOT PCT		21.3	19.0	8.2	6.5	10.0	11.2	5.3	12.0	.0	6.1	100.0	

TABLE 9

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

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.1	.1	.0	.1	.0	.0	.0	.1	.6	
	4-10	.3	.6	.6	.0	.1	.0	.3	.0	.0	.0	1.8	
	11-21	.3	.4	.0	.1	.0	.0	.0	.3	.0	.0	1.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	1.1	.6	.3	.1	.1	.3	.3	.3	.1	3.7	
1/2<1	0-3	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
	4-10	.1	.2	.3	.0	.0	.0	.0	.0	.0	.0	.7	
	11-21	.0	.1	.0	.0	.0	.3	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.4	.3	.1	.1	.3	.0	.0	.0	.0	1.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	4-10	.1	.0	.2	.2	.1	.1	.0	.1	.0	.0	1.0	
	11-21	.1	.0	.0	.0	.0	.0	.1	.1	.0	.0	.3	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.2	.0	.2	.3	.1	.1	.1	.2	.1	.0	1.9	
2<3	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1.0	
	4-10	.2	1.0	.3	.0	.0	.4	.1	.6	.0	.0	2.6	
	11-21	1.1	1.2	.7	.7	.3	.2	.2	.3	.9	.0	4.7	
	22+	.2	.2	.0	.2	.1	.1	.0	.1	.0	.0	1.0	
	TOT %	1.6	2.4	.9	1.2	.4	.8	.4	1.0	.0	.0	9.2	
3<10	0-3	.2	.3	.1	.0	.0	.0	.0	.0	.0	1.0	1.3	
	4-10	1.3	2.0	.9	.7	.0	.7	.3	1.3	.0	.0	7.9	
	11-21	1.3	1.2	.0	.4	.6	.5	.3	.8	.0	.0	5.8	
	22+	.0	.3	.0	.2	.3	1.1	.1	.1	.0	.0	2.1	
	TOT %	2.9	3.7	1.3	1.4	1.6	2.3	.7	2.4	.0	1.0	17.2	
10+	0-3	.0	.2	.3	.4	.2	.8	.3	.4	.0	3.9	7.4	
	4-10	7.1	3.8	2.4	2.2	3.0	3.0	2.1	4.3	.0	.0	28.1	
	11-21	6.1	3.3	1.4	1.7	3.1	3.2	1.3	3.6	.0	.0	25.7	
	22+	1.1	.3	.1	.1	1.2	1.1	.3	.9	.0	.0	5.4	
	TOT %	15.2	9.6	4.3	4.4	7.4	8.1	4.2	9.4	.0	3.9	66.6	
TOT OBS													723
TOT PCT		20.7	17.2	7.8	7.4	9.8	11.7	5.7	13.3	.0	6.3	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1907-1975
(OVER-ALL) 1860-1975

AREA 0013 BAHIA BLANCA
39.55 57.24

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	149	209	399	999	1999	3499	4999	6499	7999				
0000	8.1	.0	.0	2.0	10.1	15.2	2.0	.0	3.0	1.0	41.4	59.6	99
0600	6.8	.0	.0	1.7	4.2	11.0	.8	2.5	.0	.8	28.0	72.0	118
1200	5.3	.0	.8	1.5	12.0	9.8	3.8	1.5	.8	.8	36.1	63.9	193
1800	2.9	.0	.7	6.5	8.0	8.7	4.3	2.2	.7	4.3	38.4	61.6	138
TOT	27	0	2	13	42	53	14	8	5	9	175	319	488
PCT	5.5	.0	.4	3.1	8.6	10.9	2.9	1.6	1.0	1.8	33.9	64.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000	4.1	1.2	1.8	10.7	18.3	63.9	109
0600	2.8	2.8	1.7	9.9	16.0	66.9	101
1200	5.6	.5	1.5	6.1	20.2	66.2	198
1800	2.2	.5	2.7	10.9	14.7	69.0	104
TOT	27	9	14	68	127	487	732
PCT	3.7	1.2	1.9	9.3	17.3	66.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET) AND 5/8 BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5/8	NH <5/8 AND 5/8	TOTAL OBS
0000	8.2	8.2	15.3	28.9	35.7	97
0600	6.3	6.3	13.4	17.0	69.6	112
1200	5.5	7.8	16.4	27.3	36.3	128
1800	3.0	4.3	19.3	24.1	56.4	133
TOT	26	31	77	114	279	470
PCT	5.5	6.6	16.4	24.3	59.4	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	.0	.0	.6	.9	8	2.3
69/69	.0	.0	.0	.6	.6	1.9	.9	1.3	17	3.4
68/64	.0	.0	.0	.3	3.2	3.7	6.9	10.7	83	26.8
55/59	.0	.0	.0	.3	3.2	3.8	9.8	13.2	92	29.3
50/54	.0	.0	.0	.9	2.8	4.1	9.1	11.0	87	27.4
45/49	.0	.0	.0	.6	1.3	3.2	3.3	2.7	27	8.5
TOTAL	0	0	0	5	30	36	97	129	317	100.0
PCT	.0	.0	.0	1.6	9.5	17.7	30.6	40.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	1.2	.0	.0	.3	.0	.0	.3	.7	.0	.0
69/69	1.3	.4	.6	.0	.6	.2	.9	1.3	.0	.0
68/64	7.0	6.2	1.9	1.8	2.3	3.0	1.8	2.4	.0	.3
55/59	6.3	6.0	2.3	1.0	3.1	4.0	2.8	3.3	.0	.3
50/54	5.6	3.6	2.9	3.3	4.5	3.4	.7	2.3	.0	.6
45/49	.3	1.3	.8	.9	3.2	1.3	.3	.3	.0	.0
TOTAL	22.1	17.3	8.4	7.6	13.6	11.8	6.9	10.8	.0	1.3

TABLE 15

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

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	73	70	64	55	47	43	42	55.0	534
0600	72	66	62	54	46	43	43	34.3	382
1200	82	70	65	56	49	46	41	56.4	743
1800	81	73	70	59	50	48	45	58.8	374
TOT	82	72	65	56	48	45	41	56.1	2033

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.0	7.8	14.3	32.3	43.3	87	77		
0600	.0	2.8	2.8	14.1	33.8	46.3	87	71		
1200	.0	.0	13.1	17.2	29.3	40.4	83	99		
1800	.0	4.1	12.3	27.4	26.0	30.1	81	73		
TOT	0	5	30	58	97	130	43	320		

NOVEMBER

PERIOD: (PRIMARY) 1907-1975
(OVER-ALL) 1860-1975

AREA 0013 BAHIA BLANCA
39.55 57.24

TABLE 17

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

AIR-SEA TMP DIP	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	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2		2	.0	.3
17/19	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0		2	.2	.2
14/16	.0	.0	.0	.0	.0	.3	.2	1.3	.2	.2		14	.3	2.0
11/13	.0	.0	.0	.0	.0	1.0	1.2	.3	.2	.0		17	.2	2.0
9/10	.0	.0	.0	.0	1.0	1.8	1.0	.3	.0	.0		23	.2	3.9
7/8	.0	.0	.0	.2	2.0	4.1	1.2	.2	.0	.0		46	.3	7.4
6	.0	.0	.0	.3	1.0	1.2	.2	.0	.0	.0		16	.0	2.4
5	.0	.0	.3	2.0	1.8	3.9	.8	.0	.0	.0		57	1.0	8.4
4	.0	.0	1.2	2.0	2.8	2.3	.3	.0	.0	.0		33	.8	7.9
3	.0	.0	1.0	2.8	2.0	2.3	.0	.0	.0	.0		49	.3	7.6
2	.0	.3	1.4	3.6	3.8	2.0	.0	.0	.0	.0		70	1.3	10.2
1	.0	.8	3.0	2.8	2.1	1.2	.0	.0	.0	.0		98	1.2	8.4
0	.2	.2	2.1	2.8	2.8	1.3	.2	.2	.0	.0		61	1.2	8.9
-1	.2	.8	1.4	1.2	1.3	.3	.0	.0	.0	.0		33	1.0	4.4
-2	.0	.8	1.4	1.2	1.3	.3	.0	.0	.0	.0		37	.3	3.3
-3	.0	.3	.8	1.3	1.0	.2	.0	.0	.0	.0		24	.3	3.3
-4	.0	.8	.3	1.0	.0	.2	.0	.0	.0	.0		14	.7	1.6
-5	.0	.3	.3	.7	.3	.0	.0	.0	.0	.0		11	.2	1.6
-6	.0	.2	.2	.0	.2	.2	.0	.0	.0	.0		4	.2	.3
-7-8	.0	.2	.8	.3	.0	.2	.0	.0	.0	.0		10	.0	1.6
-9-13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0		1	.0	.2
-11-13	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0		1	.0	.2
-14-16	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0		1	.0	.2
TOTAL	.3	.9	9.4	14.0	13.9	3.9	1.6	.3	.2	.3		408	6.2	34.6
PCT	.3	5.1	19.5	23.7	23.0	22.9	5.8	2.6	.3	.2		100.0	10.2	89.8

PERIOD: (OVER-ALL) 1903-1975

TABLE 18

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

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
41	1.3	1.7	.9	.0	.0	.0	4.0	.0	.1	.3	.0	.0	.0	.4
1-2	.0	2.0	1.3	.0	.0	.0	3.2	.0	1.9	.8	.0	.0	.0	2.8
3-4	.0	2.2	4.8	.7	.0	.0	7.3	.0	3.7	3.8	.1	.0	.0	7.3
5-6	.0	.0	3.2	.7	.0	.0	2.4	.0	.3	1.4	.1	.0	.0	2.0
7	.0	.0	2.3	.3	.0	.0	2.7	.0	.0	2.9	.0	.0	.0	2.5
8-9	.0	.3	.3	1.1	.0	.0	1.7	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.3	.2	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	6.2	12.2	2.1	.0	.0	21.8	.0	3.9	8.9	.2	.0	.0	15.1

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
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
1-2	.0	1.2	.0	.0	.0	.0	1.2	.1	2.2	.0	.0	.0	.0	2.3
3-4	.0	2.4	2.0	.0	.0	.0	4.3	.0	1.0	.3	.1	.0	.0	1.4
5-6	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	1.4	.4	.0	.0	1.8
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	3.8	.3	.0	.0	7.7	.4	3.2	2.1	.9	.0	.0	6.6

PERIOD: (OVER-ALL) 1963-1975

NOVEMBER
TABLE 10 (CONT)

AREA 0013 BAHIA BLANCA
39.55 57.2W

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

HGT	S						PCT	SW						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.2	.0	.0	.0	.2	.9	.0	.1	.0	.0	.0	.0	1.0
1-2	.2	3.0	.2	.0	.0	.0	3.5	.3	2.6	.4	.0	.0	.0	.0	3.3
3-4	.0	.3	.9	.5	.0	.0	1.8	.0	1.3	.9	.0	.0	.0	.0	1.8
5-6	.0	.3	1.2	.5	.0	.0	2.0	.0	.0	1.3	1.1	.0	.0	.0	2.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.3	.6	.9	.1	.0	.0	2.0
8-9	.0	.0	.8	.0	.0	.0	.8	.0	.0	.2	.6	.0	.0	.0	.8
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	.0	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.6	.3	.0	.0	1.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.7	3.6	1.3	.0	.0	8.8	1.3	4.2	3.4	3.3	.4	.0	.0	12.8

HGT	W						PCT	NW						TOTAL PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.3	.0	.0	.0	.0	.6	.2	.1	.0	.0	.0	.0	.0	.3
1-2	.0	1.2	.0	.0	.0	.0	1.2	.0	3.2	.9	.0	.0	.0	.0	4.1
3-4	.0	1.1	1.0	.3	.0	.0	2.4	.0	1.7	2.8	.0	.0	.0	.0	4.5
5-6	.0	.0	.2	.2	.0	.0	.5	.0	.0	.7	.0	.0	.0	.0	.7
7	.0	.0	.0	.0	.2	.0	.2	.0	.0	.3	.0	.0	.0	.0	.3
8-9	.0	.0	.2	.3	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	1.3	.0	.0	.0	1.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.6	1.8	.9	.2	.0	3.8	.2	3.0	4.9	1.4	.0	.0	.0	11.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	13.4	2.2	1.0	.0	.0	.0	17.1	
1-2	.9	17.1	3.7	.0	.0	.0	21.8	
3-4	.0	13.7	13.9	1.2	.0	.0	30.8	
5-6	.0	.6	10.0	2.3	.0	.0	13.1	
7	.0	.3	6.2	1.2	.3	.0	8.1	
8-9	.0	.3	1.9	2.2	.0	.0	4.4	
10-11	.0	.0	.9	2.3	.0	.0	3.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.3	.6	.3	.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	14.3	34.3	40.3	10.3	.6	.0	100.0	321

PERIOD: (OVER-ALL) 1949-1975

TABLE 10

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
<1	2.6	12.2	13.8	9.9	2.3	2.1	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	179	4
1-2	.0	.5	8.3	6.3	4.4	2.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	3
3-4	.0	.0	.3	3.1	2.3	1.8	1.3	.3	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	8
5-6	.0	.0	.3	.0	.0	.3	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	8
7	.0	.0	.3	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
8-9	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
10-11	.0	1.8	3.1	.8	.3	.8	.3	.3	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3
INDY	41	38	103	79	37	29	16	6	11	4	1	0	0	0	0	0	0	0	0	385	3
TOT PCT	10.6	19.1	26.8	20.3	9.6	7.3	4.2	1.6	2.9	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	5

DECEMBER

PERIOD: (PRIMARY) 1906-1975
(OVER-ALL) 1871-1975

AREA 0013 BAHIA BLANCA
39.55 97.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	FOG MO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.6	.0	.0	.0	.0	.0	.0	1.6	1.2	.0	1.6	.0	.0	.0	95.5
NE	3.6	.0	.0	.0	.0	.0	.0	3.6	3.0	2.4	2.4	.0	.0	.0	88.4
E	.0	10.2	.0	.0	.0	.0	.0	10.2	2.9	.0	3.4	.0	.0	.0	85.9
SE	.0	.0	.0	.0	.0	.0	.0	.0	3.4	.0	.0	.0	.0	.0	96.6
S	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	8.1	2.3	.0	.0	87.8
SW	.0	.0	.0	.0	.0	.0	.0	.0	5.6	.0	9.2	.0	.0	.0	88.3
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	1.1	.8	.0	.0	.0	.0	.0	1.9	2.2	.3	2.7	.3	.0	.0	92.5
TOT OBS:	371														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	FOG MO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0800	2.1	1.1	.0	.0	.0	.0	.0	3.2	1.1	.0	3.2	.0	.0	.0	92.6
0800-9	2.2	.9	.0	.0	.0	.0	.0	2.2	3.6	2.2	2.2	.0	.0	.0	87.8
1200	.0	2.0	.0	.0	.0	.0	.0	2.0	1.0	.0	3.0	1.0	.0	.0	92.9
1800	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	2.2	.0	.0	.0	96.7
TOT PCT	1.1	.8	.0	.0	.0	.0	.0	1.9	2.1	.3	2.7	.3	.0	.0	92.5
TOT OBS:	375														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.0	7.0	8.9	1.7	.2	.0	18.6	12.6	18.0	22.3	31.7	18.1	17.4	16.9	11.1	18.9
NE	1.1	9.4	9.1	.3	.1	.0	19.9	9.8	17.7	14.5	23.7	19.1	19.1	19.0	20.3	19.6
E	1.0	3.4	3.4	.2	.0	.0	8.9	9.6	9.3	9.0	3.9	3.7	3.6	6.7	7.6	6.7
SE	1.0	3.9	2.3	.9	.0	.0	8.1	10.9	9.6	8.8	7.2	6.7	8.3	8.6	6.3	7.8
S	1.0	3.9	3.7	1.4	.2	.0	10.3	12.3	11.9	9.2	6.3	7.3	11.0	9.9	10.3	12.3
SW	.9	4.0	4.1	2.1	.5	.1	11.6	14.4	11.7	12.2	11.1	10.2	10.0	12.3	13.7	12.3
W	1.0	3.3	3.3	1.1	.1	.0	7.8	12.2	7.2	6.8	1.8	9.8	9.3	7.9	12.1	6.1
NW	.9	7.1	6.9	1.9	.1	.0	15.9	12.4	10.7	18.2	7.0	23.3	20.6	20.0	12.4	19.0
VAR	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.7						3.7	.0	3.6	2.4	5.2	3.3	4.4	2.4	6.3	5.0
TOT OBS	188	684	581	136	19	2	1830	11.3	276	188	97	171	270	373	93	180
TOT PCT	11.5	42.3	35.6	9.6	1.2	.1	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-48				00	03	09	12	15	21
N	3.0	9.7	4.3	.3	.0	18.6	12.6	19.7	23.0	17.1	18.2
NE	3.0	9.0	1.8	.1	.0	19.9	9.8	16.3	18.2	14.2	17.2
E	2.6	3.2	1.0	.0	.0	8.9	9.6	8.8	3.0	6.2	7.0
SE	2.4	4.3	1.2	.2	.0	8.1	10.9	6.7	6.9	8.6	7.3
S	3.2	4.2	2.4	.3	.0	10.3	12.3	10.9	7.7	10.4	11.7
SW	3.4	3.7	3.4	1.0	.1	11.6	14.4	11.9	10.3	11.4	12.9
W	2.3	3.0	1.8	.3	.0	7.8	12.2	7.1	6.9	6.6	8.2
NW	3.9	8.2	4.4	.3	.0	16.9	12.4	13.3	17.3	20.2	14.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.7					3.7	.0	3.2	4.1	3.3	5.3
TOT OBS	301	737	335	53	2	1630	11.3	444	268	643	273
TOT PCT	30.7	48.2	20.6	3.4	.1	100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1906-1975
(OVER-ALL) 1871-1975

APEA 0013 SAMIA BLANCA
39.53 37.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
0000Z	3.2	10.6	43.7	33.6	8.3	.7	.0	10.8	100.0	444	
0600Z	4.1	9.0	41.8	35.4	9.3	.4	.0	10.8	100.0	288	
1200Z	3.3	6.4	40.0	37.3	10.6	2.0	.3	12.2	100.0	643	
1800Z	5.3	3.3	44.0	34.9	9.3	.7	.0	11.4	100.0	275	
TOT	.1	127	684	381	156	19	2	11.3		1627	
PCT	3.7	7.8	42.0	35.6	9.6	1.2	.1		100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8-8	TOTAL OBS	MEAN CLOUD COVER					
							N	NE	E	SE	S	SW	W	NW	VAR	CALM	TOT OBS	TOT PCT
N	9.4	2.8	4.3	1.3	3.8	2.8					
NE	9.7	2.4	3.2	3.4	3.3	3.3					
E	2.7	.6	3.1	1.5	4.4	4.4					
SE	3.8	1.3	2.2	1.0	3.1	3.1					
S	4.7	1.3	3.0	.8	3.3	3.3					
SW	3.3	1.1	2.9	.9	2.9	2.9					
W	4.2	1.8	1.4	.2	2.7	2.7					
NW	6.2	1.8	1.9	1.1	2.7	2.7					
VAR	.0	.0	.0	.0	.0	.0					
CALM	4.2	.7	.7	.3	1.6	1.6					
TOT OBS	183	42	76	34	307	3.1					
TOT PCT	30.3	13.7	24.8	11.1	100.0						

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/MH >4/8) AND OCCURRENCE OF NH (<3/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-8	TOTAL OBS	MEAN CLOUD COVER	CEILING HEIGHTS (FT/MH >4/8)										NH (<3/8 ANY HGT)	TOTAL OBS
							000	150	300	600	1000	2000	3500	5000	6500	8000+		
N	.0	.0	.0	.0	.5	2.4	1.2	.3	.0	.2	13.3							
NE	.2	.0	.0	1.0	.7	1.3	.7	1.0	1.4	13.8								
E	.3	.0	.0	.3	1.3	.3	.7	.3	.0	4.2								
SE	.3	.0	.0	.0	.8	1.0	.3	.0	.3	3.3								
S	.0	.0	.0	.0	.7	1.1	.3	.0	.3	7.4								
SW	.3	.0	.0	.0	.6	1.6	1.0	.0	.0	6.8								
W	.0	.0	.0	.0	.2	.2	.0	.0	.2	7.0								
NW	.0	.0	.0	.0	.8	.6	.4	.3	.0	9.1								
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0								
CALM	.0	.0	.0	.0	.7	.3	.0	.0	.0	4.9								
TOT OBS	4	0	0	4	20	28	14	8	4	218	307							
TOT PCT	1.3	.0	.0	1.3	6.3	9.1	4.6	1.6	1.3	3.3	71.0	100.0						

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>5	>3	>1	>1/2	>1/4	>50YD	>0
>8000	4.3	4.3	4.6	4.6	4.6	4.6	4.6	4.6
>6000	3.6	3.9	3.3	6.3	6.3	6.3	6.3	6.3
>4000	9.9	10.9	11.2	11.2	11.2	11.2	11.2	11.2
>2000	14.3	19.4	20.4	20.4	20.4	20.4	20.4	20.4
>1000	18.1	24.3	27.0	27.0	27.0	27.0	27.0	27.0
>600	18.8	25.3	28.3	28.3	28.3	28.3	28.3	28.3
>400	18.8	25.3	28.3	28.3	28.3	28.3	28.3	28.3
>300	18.8	25.3	28.3	28.3	28.3	28.3	28.3	28.3
>150	18.8	25.3	28.3	28.3	28.3	28.3	28.3	28.3
>0	18.8	25.3	28.3	28.3	28.3	28.3	28.3	28.3
TOTAL	97	77	87	87	87	87	89	90

TOTAL NUMBER OF OBS: 304

PCT FREQ NH (<3/8): 70.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	10	TOTAL OBS
38.8	11.3	8.0	6.7	9.2	7.4	7.7	6.1	8.0	1.2	376	

DECEMBER

PERIOD: (PRIMARY) 1906-1975
(OVER-ALL) 1871-1975

AREA 0013 SANIA BLANCA
59.85 57.1W

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.5
	TOT %	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.5
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.5
	TOT %	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.5
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.6
	NO PCP	.2	1.1	.0	.3	.0	.5	.0	.9	.0	.0	.0	3.0
	TOT %	.2	1.5	.3	.3	.0	.5	.0	.9	.0	.0	.0	3.6
5<10	PCP	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
	NO PCP	1.4	4.0	.6	1.1	2.2	3.2	.3	.3	.0	.0	.0	14.0
	TOT %	2.1	4.0	.6	1.1	2.2	3.2	.3	.3	.0	.0	.0	14.3
10+	PCP	.0	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.8
	NO PCP	13.9	18.0	6.3	6.4	9.1	7.1	6.3	8.9	.0	.0	.0	80.1
	TOT %	13.9	18.6	6.3	6.4	9.1	7.1	6.3	8.9	.0	.0	.0	80.9
TOT OBS													371
TOT PCT		16.5	22.2	8.0	7.8	11.6	10.9	6.8	10.3	.0	5.9	100.0	

TABLE 9

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

VSBY (MM)	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	.2	.2	.0
	4-10	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.6
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.2	.9
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.4
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0
	4-10	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2
	11-21	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	.2	.0	.2	.0	.0	.0	.0	.0	.4	1.1
2<5	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0
	4-10	.3	.6	.0	.3	.3	.0	.0	.0	.0	.0	.0	2.2
	11-21	.0	.4	.3	.3	.2	.2	.0	.2	.0	.0	.0	1.9
	22+	.0	.0	.2	.2	.0	.3	.1	.2	.0	.0	.0	1.3
	TOT %	.3	1.3	.8	.9	.9	.8	.1	1.0	.0	.0	.0	5.6
5<10	0-3	.0	.4	.0	.0	.2	.0	.0	.0	.0	.0	.0	.6
	4-10	1.0	.8	.2	.3	.8	.9	.4	.2	.0	.0	.0	4.3
	11-21	1.1	2.0	.3	.7	.7	1.9	.2	.0	.0	.0	.0	7.1
	22+	.2	.0	.0	.0	.6	.3	.2	.2	.0	.0	.0	1.3
	TOT %	2.3	3.2	.7	1.0	2.3	3.0	.8	.4	.0	.0	.0	13.8
10+	0-3	.3	.3	.1	.3	.3	.3	.4	.3	.0	5.2	8.6	.0
	4-10	3.7	8.3	3.6	2.6	3.0	2.3	2.4	4.4	.0	.0	.0	30.3
	11-21	8.3	4.8	2.7	2.2	4.1	3.9	2.0	4.6	.0	.0	.0	32.9
	22+	.8	.3	.2	1.0	1.6	1.1	1.0	.0	.0	.0	.0	8.2
	TOT %	13.3	14.2	6.6	6.4	9.4	8.1	5.8	9.4	.0	5.2	.0	78.3
TOT OBS													465
TOT PCT		16.1	19.1	8.5	8.3	11.7	11.8	6.7	10.8	.0	5.8	100.0	

DECEMBER

PERIOD: (PRIMARY) 1966-1975
(OVER-ALL) 1971-1975

AREA 0013 BAHIA BLANCA
39.33 97.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <3/8 BY HOUR

HOUR (GMT)	000	100	300	600	1000	2000	3000	5000	8000	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
0000	2.4	.0	.0	1.2	7.2	4.8	1.2	1.2	1.2	4.8	24.1	79.9	83
0600	1.7	.0	.0	.0	1.7	6.8	6.8	.0	.0	1.7	18.6	81.4	99
1200	1.1	.0	.0	2.2	10.1	10.1	9.0	1.1	3.4	3.4	40.4	59.6	89
1800	.0	.0	.0	1.2	4.7	12.8	2.3	2.3	.0	2.3	26.7	73.3	86
TOT	4	0	0	4	20	28	19	3	4	10	90	227	317
PCT	1.3	.0	.0	1.3	6.3	8.8	4.7	1.0	1.3	3.2	28.4	71.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
0000	.8	.0	.0	7.3	10.6	81.3	123
0600	.9	.0	.9	4.7	20.8	72.6	106
1200	.8	1.6	2.3	6.2	16.3	72.9	129
1800	.9	.0	.9	3.6	9.9	84.7	111
TOT	4	2	3	26	67	263	469
PCT	.9	.4	1.1	5.3	14.3	77.8	100.0

TABLE 12

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

HOUR (GMT)	<100 AND 3/8	<600 <1	<1000 <3	1000+ AND 3/8	NH <3/8 AND 5+	TOTAL OBS
0000	2.4	2.4	6.1	18.3	79.6	82
0600	1.8	1.8	1.8	17.3	80.7	97
1200	1.2	1.2	6.1	33.7	98.1	86
1800	.0	.0	3.8	23.3	70.9	79
TOT	4	4	16	74	214	304
PCT	1.3	1.3	5.3	24.3	70.4	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
73/79	.0	.0	.0	.0	.0	.0	.0	.0	1	.6
76/74	.0	.0	.0	.0	1.2	1.2	1.2	.0	3	3.6
63/69	.0	.0	.0	.0	1.2	6.0	5.4	3.0	26	13.8
60/64	.0	.0	.0	1.2	3.6	7.8	16.0	7.8	63	37.7
53/59	.0	.0	.0	1.2	3.6	9.6	19.2	7.2	58	34.7
50/54	.0	.0	.0	.6	.0	1.2	2.4	3.0	12	7.2
46/44	.0	.0	.0	.0	.0	.0	.0	.6	1	.6
TOTAL	0	0	0	3	19	44	47	36	167	100.0
PCT	.0	.0	.0	3.0	9.0	26.3	40.1	21.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
73/79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
76/74	.4	.8	.0	.0	.0	.0	.0	1.3	.0	.0
63/69	4.6	4.9	.0	.0	.0	.7	1.0	2.4	.0	.6
60/64	7.3	8.7	4.8	3.3	2.3	1.8	2.7	3.8	.0	.6
53/59	3.3	1.9	1.6	4.3	7.9	3.4	3.3	3.3	.0	1.2
50/54	.0	.7	.4	.0	1.2	3.0	1.2	.6	.0	.0
46/44	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0
TOTAL	16.3	16.9	7.3	9.0	12.6	11.2	10.3	13.3	.0	2.4

TABLE 15

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

HOUR (GMT)	MAX	95%	90%	50%	5%	MIN	MEAN	TOTAL OBS
0000	73	71	68	59	51	48	67	440
0600	72	68	64	59	50	49	60.3	270
1200	78	73	69	61	52	50	60.8	926
1800	80	77	73	63	53	51	62.6	230
TOT	80	75	69	60	52	50	60.3	1366

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	2.7	10.8	29.7	35.1	21.6	81	37		
0600	.0	2.3	4.7	23.6	37.2	30.2	83	43		
1200	.0	4.2	10.4	22.9	43.6	16.7	82	48		
1800	.0	2.4	9.8	23.3	41.3	17.1	80	41		
TOT	0	3	13	43	68	36	82	169		

DECEMBER

PERIOD: (PRIMARY) 1900-1975
(OVER-ALL) 1:71-1975

AREA 0013 SAKIA BLANCA
39.33 57.1W

TABLE 17

PCT FREE 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	49	53	57	61	65	69	73	77	TOT	W	WG
	44	48	52	56	60	64	68	72	76	80		FOG	
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
14/16	.0	.0	.0	.0	.0	.3	.8	1.1	.8	.8	14	.0	4.0
11/13	.0	.0	.0	.0	.0	.0	1.1	1.7	.0	.0	13	.0	3.7
9/10	.0	.0	.0	.0	.0	.0	1.1	.8	1.1	.0	12	.0	3.4
7/8	.0	.0	.0	.0	.0	.0	2.3	3.4	2.0	.0	29	.0	8.2
6	.0	.0	.0	.0	.0	.0	2.3	2.0	.8	.0	19	.0	5.4
5	.0	.0	.0	.0	.0	.0	3.1	2.5	.0	.0	24	.0	6.8
4	.0	.0	.0	.0	.0	.0	3.7	2.5	.8	.0	28	.0	7.6
3	.0	.0	.0	.0	.0	.0	3.7	1.1	.0	.0	23	.0	6.3
2	.0	.0	.0	.0	.0	1.4	5.1	1.7	.0	.0	31	.0	8.8
1	.0	.0	.0	.0	.0	4.0	3.7	.6	.0	.0	31	.0	8.3
0	.0	.0	.0	.0	.0	3.4	3.1	.3	2.0	.0	35	.0	9.9
-1	.0	.0	.0	.0	.0	3.4	.6	.0	.0	.0	18	.0	4.5
-2	.0	.0	.0	.0	.0	2.3	2.0	1.7	.0	.0	23	.0	5.9
-3	.0	.0	.0	.0	.0	1.7	2.0	.6	.0	.0	17	.0	4.2
-4	.0	.0	.0	.0	.0	1.4	2.0	.3	.0	.0	15	.0	4.2
-5	.0	.0	.0	.0	.0	.6	.3	.0	.0	.0	6	.0	1.7
-6	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	2	.0	.6
-7-8	.0	.0	.0	.0	.0	.6	.3	.0	.0	.0	9	.0	2.5
-9-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.6
-11-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
-14-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	1	0	12	37	81	114	62	34	5	8	354	9	345
PCT	.3	.0	3.4	10.5	22.9	32.2	17.5	9.6	2.3	1.4	100.0	2.5	97.5

PERIOD: (OVER-ALL) 1900-1975

TABLE 18

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

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.2	.3	.0	.0	.0	1.6	.9	1.6	.0	.0	.0	.0	2.5
1-2	.0	1.6	.3	.0	.0	.0	2.1	.0	0.3	.0	.0	.0	.0	6.9
3-4	.0	1.3	3.4	.0	.0	.0	4.7	.0	3.3	4.3	.0	.0	.0	7.6
5-6	.0	.0	3.8	.0	.0	.0	3.8	.0	.6	2.0	.0	.0	.0	3.0
7	.0	.0	1.2	.0	.0	.0	1.6	.0	.0	2.1	.0	.0	.0	2.1
8-9	.0	.0	.7	.0	.0	.0	1.2	.0	.0	.1	.0	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	12.0	.9	.0	.0	17.4	1.4	12.0	8.4	.3	.0	.0	22.2

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.3	.0	.0	.0	.0	.3	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	.2	.3	.0	.0	.0	.7
3-4	.0	1.6	1.2	.0	.0	.0	3.0	.5	1.4	.9	.0	.0	.0	2.8
5-6	.0	.0	1.4	.0	.0	.0	1.7	.0	.0	.3	.0	.0	.0	.9
7	.0	.0	.3	.0	.0	.0	1.4	.0	.0	1.4	.1	.0	.0	1.3
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.9	2.3	.9	.0	.0	8.2	.9	2.6	3.2	1.6	.0	.0	7.9

PERIOD: (OVER-ALL) 1962-1975

DECEMBER

AREA 0013 BAHIA BLANCA
39.35 57.1W

TABLE 18 (CONT)

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

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.0	.3	.0	.0	.0	.0	.3	.0	1.4	.0	.0	.0	.0	1.4		
1-2	.0	2.1	.0	.0	.0	.0	2.1	.0	2.1	.0	.0	.0	.0	2.1		
3-4	.0	.3	1.3	.3	.0	.0	2.4	.0	.2	2.6	.0	.0	.0	2.9		
5-6	.0	.0	1.8	.0	.0	.0	1.8	.0	.6	2.0	.2	.0	.0	2.8		
7	.0	.0	.8	.8	.0	.0	1.6	.0	.0	.4	.0	.0	.0	.6		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.3	.0	.0	1.0		
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	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.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	2.9	4.1	1.8	.0	.0	8.6	.0	4.3	3.8	.7	.0	.0	10.7		

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3		
1-2	.0	1.2	.0	.0	.0	.0	1.2	.0	1.7	.3	.0	.0	.0	2.2		
3-4	.0	.7	.9	.3	.0	.0	2.1	.0	2.3	1.6	.0	.0	.0	3.9		
5-6	.0	.8	.3	.7	.0	.0	1.8	.0	.0	.7	.0	.0	.0	.7		
7	.0	.3	.9	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	.0	1.4		
8-9	.0	.0	.3	.9	.0	.0	1.3	.0	.0	.2	.0	.0	.0	.2		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	3.1	2.3	2.1	.0	.0	7.7	.0	4.3	4.4	.0	.0	.0	8.9 91.7		

WIND SPEED (KTS) VS SEA HEIGHT (FY)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.2	6.3	.3	.0	.0	.0	16.1	
1-2	.0	16.6	1.4	.0	.0	.0	18.0	
3-4	.3	11.3	18.4	.9	.0	.0	31.3	
5-6	.3	2.3	12.4	1.4	.0	.0	16.6	
7	.0	.9	8.8	1.8	.0	.0	11.3	
8-9	.0	.0	2.3	2.3	.0	.0	4.6	
10-11	.0	.0	.0	.9	.0	.0	.9	
12	.0	.0	.0	.3	.0	.0	.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	10.1	37.8	43.8	4.3	.0	.0	100.0	217

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FY) 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	12.9	24.7	8.9	3.3	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	144	3
6-7	.0	.0	4.4	8.3	4.8	3.2	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	6
8-9	.0	.0	.7	.0	3.3	1.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	7
10-11	.0	.0	.0	.0	.4	1.1	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	9
12-13	.0	.0	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
>13	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
INDPT	6.8	1.1	1.8	2.6	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	2
TOTAL	23	38	87	56	34	24	6	1	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	271	4
PCT	8.9	14.0	32.1	20.7	12.5	9.9	2.2	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1964-1976
(OVER-ALL) 1854-1976

ANNUAL

AREA 0013 BAHIA BLANCA
39.95 57.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 00 TIME	PCPN PAST HOUR	THUR LTNG	FOG NO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG	DUST SNOW	NO SIG WEA
N	1.7	1.1	1.2	.0	.0	.0	.1	4.0	.9	1.6	11.6	.2	1.6	.0	.0	80.2
NE	2.6	1.2	.8	.0	.0	.0	.1	4.6	1.2	1.8	14.7	.1	1.1	.0	.0	76.8
E	3.4	2.8	.8	.0	.0	.0	.0	9.0	2.1	1.0	12.3	.1	1.2	.0	.0	74.6
SE	2.6	2.2	.7	.0	.0	.0	.0	5.4	2.2	1.6	4.0	.0	.8	.0	.0	84.1
S	1.9	1.3	1.7	.0	.0	.0	.0	4.9	2.5	1.0	3.3	.2	.4	.0	.0	85.9
SW	1.6	1.1	.8	.0	.0	.0	.3	3.5	2.7	.7	4.3	.1	.4	.0	.0	88.2
W	.8	1.1	.4	.0	.0	.0	.1	2.5	.8	1.0	6.0	.2	1.2	.3	.0	88.3
NW	1.3	.4	.4	.0	.0	.0	.1	2.1	.8	1.4	7.9	.2	1.0	.1	.0	86.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6	1.0	.0	.0	.0	.0	.0	1.6	.8	1.1	7.2	1.2	.2	.0	.0	87.9
TOT PCT	1.9	1.3	.8	.0	.0	.0	.1	4.0	1.9	1.3	8.6	.2	1.0	.1	.0	83.6
TOT OBS:	6966															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 00 TIME	PCPN PAST HOUR	THUR LTNG	FOG NO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG	DUST SNOW	NO SIG WEA
0800	1.8	1.3	.3	.0	.0	.0	.1	3.8	1.7	2.2	9.8	.1	.9	.0	.0	81.9
0900	2.4	1.1	1.4	.0	.0	.0	.0	4.9	1.8	2.7	8.0	.2	.4	.1	.0	82.2
1800	1.9	1.0	.8	.0	.0	.0	.2	3.7	1.2	.8	9.1	.2	1.3	.1	.0	84.1
1800	1.7	1.4	.6	.0	.0	.0	.0	3.8	1.7	.1	8.1	.3	1.3	.0	.0	84.8
TOT PCT	2.0	1.3	.8	.0	.0	.0	.1	4.0	1.6	1.3	8.7	.2	1.0	.1	.0	83.4
TOT OBS:	7088															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.9	6.1	6.9	1.3	.1	.0	19.3	18.6	14.9	16.3	21.1	15.9	16.1	13.4	16.4	14.0	
NE	.8	5.5	4.3	.4	.1	.0	11.3	10.9	13.3	11.2	13.4	9.2	10.4	10.0	14.7	10.3	
E	.6	2.6	1.9	.3	.1	.0	9.7	10.8	6.4	5.6	8.9	4.8	3.0	6.0	6.3	8.7	
SE	.6	4.1	2.8	.8	.2	.0	8.9	11.3	9.7	9.6	6.8	9.6	8.7	9.4	6.3	9.6	
S	.4	4.6	4.3	1.6	.4	.1	12.2	13.7	12.3	12.0	10.3	11.7	12.0	12.9	10.9	13.4	
SW	1.0	4.8	3.1	2.1	.8	.2	14.1	14.9	14.0	13.6	13.1	13.2	14.2	12.9	16.0	14.3	
W	1.0	4.9	4.2	1.3	.4	.1	11.4	12.6	11.1	11.3	10.6	12.1	11.8	12.8	14.8	12.3	
NW	.8	6.3	7.4	2.3	.3	.0	17.2	13.3	13.4	17.9	13.8	20.8	18.8	19.8	12.3	17.1	
VAR	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.3						3.3	.0	3.8	2.3	3.1	2.7	3.3	2.8	3.4	2.9	
TOT OBS							29203	12.3	4339	2822	1894	2810	4417	4737	1711	2819	
TOT PCT	10.4	38.0	37.3	10.3	2.3	.4		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	09	12	18	21
N	3.2	7.9	3.8	.3	.0	19.3	12.6	15.4	17.7	14.8	14.8
NE	3.0	6.1	2.0	.2	.0	11.3	10.9	12.3	10.9	10.3	12.1
E	1.9	2.8	.8	.1	.1	9.7	10.8	6.1	3.1	3.9	6.1
SE	2.7	4.1	1.6	.4	.1	8.9	11.3	9.7	8.5	6.8	8.3
S	3.1	3.1	2.9	.8	.2	12.2	13.7	12.3	11.2	12.4	12.3
SW	3.2	5.6	3.4	1.4	.4	14.1	14.9	14.4	13.4	13.3	15.3
W	3.1	3.3	2.6	.8	.1	11.9	12.6	11.2	11.4	12.3	12.4
NW	3.2	8.2	4.7	1.0	.1	17.2	13.3	13.1	18.1	19.3	13.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3					3.3	.0	3.4	2.7	3.1	3.2
TOT OBS						25293	12.3	7187	4404	9174	4330
TOT PCT	26.8	43.1	21.9	3.1	1.1		100.0	100.0	100.0	100.0	100.0

ANNUAL

PERIOD: (PRIMARY) 1904-1976
(OVER-ALL) 1894-1976

AREA 0013 BAHIA BLANCA
39.35 57.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	3.4	8.1	39.4	36.2	9.8	2.5	.5	12.2	100.0	7187
0600Z	3.7	6.5	38.5	38.0	10.5	2.2	.5	12.5	100.0	4404
1201Z	3.1	7.1	38.0	37.2	11.5	2.7	.4	12.8	100.0	9174
1821Z	3.2	5.9	40.3	38.4	9.7	2.1	.4	12.4	100.0	4330
TOT								12.5		23299
PCT	3.3	7.0	38.9	37.3	10.5	2.5	.4	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	3.1	1.2	3.3	4.3		4.5
E	1.8	.4	1.3	2.4		3.1
SE	1.8	.9	1.6	1.8		4.6
S	3.7	1.7	3.2	1.9		4.0
SW	6.3	2.9	4.7	2.1		3.7
W	5.8	1.8	2.1	1.4		3.0
NW	4.2	1.3	3.4	2.4		3.4
VAR	.0	.0	.0	.0		.0
CALM	2.1	.3	1.0	.7		3.3
TOT OBS					3194	3.9
TOT PCT	40.2	12.6	26.1	21.2	100.0	

TABLE 6

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

WIND DIR	000	150	300	600	1000	2000	3000	6000	8000+	NH <4/8 ANY HGT	TOTAL OBS
N	1.6	.0	.1	.4	1.2	1.6	.4	.3	.3	.3	11.9
NE	1.2	.0	.1	.4	1.2	1.7	.8	.3	.4	.2	7.6
E	.4	.0	.1	.4	1.1	.8	.3	.2	.0	.1	2.7
SE	.3	.0	.0	.3	.9	.8	.4	.1	.1	.0	3.2
S	.2	.0	.0	.3	1.2	1.3	.8	.1	.2	.1	6.1
SW	.5	.0	.0	.3	1.4	2.0	.9	.2	.1	.1	10.3
W	.2	.0	.0	.2	.7	.7	.5	.0	.1	.1	6.6
NW	.4	.0	.0	.6	.8	1.1	.3	.1	.1	.2	9.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.3	.0	.0	.1	.3	.6	.1	.0	.0	.1	2.7
TOT OBS	5.2	.0	.4	3.3	8.7	10.6	5.2	1.4	1.3	1.3	62.6
TOT PCT											100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4000	1.8	2.4	2.5	2.5	2.5	2.5	2.5	2.5
>3000	2.7	3.8	3.9	3.9	3.9	3.9	3.9	3.9
>2000	6.3	8.8	9.1	9.1	9.1	9.1	9.1	9.1
>1000	12.0	18.1	19.3	19.4	19.4	19.4	19.4	19.4
>500	16.4	23.4	27.7	28.0	28.1	28.2	28.3	28.4
>300	17.9	26.1	30.9	31.2	31.4	31.6	31.7	31.7
>150	18.1	28.4	31.2	31.6	31.7	31.9	32.0	32.0
>0	18.1	28.4	31.2	31.6	31.8	31.9	32.0	32.0

TOTAL NUMBER OF OBS: 5095

PCT FREQ NH <5/8: 62.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL OBS	
	31.9	6.0	9.4	7.0	5.8	5.1	6.5	8.4	13.2	4.7	5493

PERIOD: (PRIMARY) 1964-1976
(OVER-ALL) 1954-1976

ANNUAL

AREA 0013 SANIA BLANCA
39.33 57.1W

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.9
	NO PCP	1.3	1.1	.4	.1	.2	.4	.1	.3	.0	.2	4.3	
	TOT S	1.3	1.1	.4	.2	.2	.4	.1	.3	.0	.2	4.5	
1/2<1	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.9
	NO PCP	.2	.2	.1	.1	.1	.0	.1	.1	.0	.0	.7	
	TOT S	.2	.2	.1	.1	.1	.1	.1	.1	.0	.0	1.0	
1<2	PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9
	NO PCP	.1	.1	.1	.0	.0	.0	.0	.1	.0	.0	.9	
	TOT S	.2	.1	.1	.0	.1	.0	.0	.1	.0	.1	.9	
2<5	PCP	.1	.1	.1	.1	.2	.1	.0	.1	.0	.0	.0	.9
	NO PCP	.9	1.0	.3	.3	.4	.3	.3	.3	.0	.2	4.4	
	TOT S	.9	1.1	.4	.4	.6	.4	.3	.4	.0	.2	5.2	
5<10	PCP	.3	.3	.3	.1	.2	.1	.2	.1	.0	.0	.0	1.4
	NO PCP	3.3	4.1	1.8	2.2	3.0	3.5	3.3	3.2	.0	1.0	29.4	
	TOT S	3.6	4.3	2.1	2.3	3.1	3.7	3.5	3.3	.0	1.0	31.0	
10+	PCP	.1	.1	.1	.0	.1	.2	.0	.1	.0	.0	.0	.7
	NO PCP	10.3	7.4	3.2	3.4	6.4	9.7	6.6	7.4	.0	2.3	36.9	
	TOT S	10.4	7.5	3.3	3.4	6.5	9.9	6.7	7.5	.0	2.3	37.5	
TOT OBS												6940	
TOT PCT		10.8	14.3	6.9	6.4	10.6	14.7	10.7	14.0	.0	3.9	100.0	

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.1	.0	.1	.0	.0	.1	.0	.2	.0	
	4-10	.3	.3	.2	.1	.1	.2	.1	.2	.0	.0	2.0	
	11-21	.3	.3	.1	.1	.0	.0	.0	.1	.0	.0	1.1	
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT S	1.1	1.0	.4	.2	.2	.3	.1	.3	.0	.0	4.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.1	.0	.0	.0	.1	.0	.0	.0	.3	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT S	.2	.2	.1	.1	.1	.1	.1	.1	.0	.0	.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.1	.1	.0	.0	.0	.0	.0	.2	.0	.0	.3	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT S	.2	.1	.2	.1	.1	.1	.1	.2	.0	.1	1.2	
2<5	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	.4	
	4-10	.4	.3	.1	.2	.2	.2	.1	.3	.0	.0	1.9	
	11-21	.6	.3	.3	.2	.3	.3	.2	.3	.0	.0	2.7	
	22+	.1	.1	.1	.1	.1	.3	.1	.0	.0	.0	1.0	
	TOT S	1.0	1.1	.3	.6	.6	.7	.4	.7	.0	.2	6.0	
5<10	0-3	.2	.2	.1	.1	.0	.1	.1	.1	.0	.0	1.8	
	4-10	1.3	1.7	.9	.8	1.0	1.0	1.2	1.0	.0	.0	10.3	
	11-21	2.3	1.7	.8	1.1	1.4	1.7	1.2	2.1	.0	.0	12.3	
	22+	.3	.3	.2	.2	.3	.7	.0	.3	.0	.0	3.3	
	TOT S	4.0	3.9	2.0	2.1	2.9	3.3	3.1	4.3	.0	.0	27.9	
10+	0-3	.4	.2	.3	.3	.3	.4	.3	.0	.0	2.3	3.0	
	4-10	3.6	3.3	1.9	2.0	2.4	3.3	2.9	3.3	.0	.0	22.8	
	11-21	5.3	3.4	1.2	1.2	3.3	4.9	3.3	4.0	.0	.0	28.8	
	22+	.9	.3	.1	.3	.9	1.6	1.0	.7	.0	.0	5.7	
	TOT S	10.1	7.2	3.5	3.8	6.9	10.3	7.5	8.4	.0	.0	60.1	
TOT OBS												8348	
TOT PCT		17.7	13.6	6.8	6.8	10.8	15.0	11.3	14.4	.0	3.7	100.0	

PERIOD: (PRIMARY) 1904-1976
(OVER-ALL) 1854-1976

ANNUAL

AREA 0013 SANJA BLANCA
39.55 37.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND OCCURRENCE OF NH <3/8 BY HOUR

HRUR (GMT)	000	180	300	600	1000	2000	3300	5000	6500	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
00003	0.0	.0	.3	3.3	8.2	9.4	3.9	1.1	1.1	1.5	34.9	63.1	1209
06009	0.3	.1	.2	2.0	3.5	7.8	4.9	1.0	.6	.8	29.3	70.7	1031
12015	4.9	.0	.4	3.5	10.8	10.3	6.3	1.1	2.0	1.2	40.7	39.3	1543
18021	4.0	.0	.3	3.8	8.5	12.1	9.0	2.2	1.1	1.3	38.4	61.6	1532
TOT													3333
PCT	3.2	.0	.3	3.2	8.6	10.2	5.0	1.4	1.2	1.2	36.3	63.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	4.3	.9	1.3	7.1	31.8	34.6	2264
06009	4.2	1.0	1.0	6.6	30.9	36.3	1686
12015	4.0	.8	1.3	6.6	26.2	63.1	2443
18021	3.7	1.0	1.0	3.5	23.7	63.1	2111
TOT							8674
PCT	4.0	.9	1.2	3.9	28.1	39.9	100.0

TABLE 12

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

HRUR (GMT)	<150 <800D	<600 <1	<1000 <5	1000+ AND 3+	NH <3/8 AND 3+	TOTAL OBS
00003	6.6	8.1	17.2	21.9	60.9	1191
06009	6.8	7.5	13.5	19.6	66.9	930
12015	4.8	5.9	13.0	29.5	37.5	1499
18021	3.9	4.9	12.6	27.7	39.7	1513
TOT						3099
PCT	3.3	6.3	13.9	23.4	60.7	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
73/79	.0	.0	.0	.1	.1	.2	.0	.0	.4	
75/74	.0	.0	.1	.1	.4	1.0	.6	.0	2.9	
69/69	.0	.0	.2	1.0	2.4	3.2	2.9	.0	9.7	
60/64	.0	.0	.4	1.0	3.2	6.3	3.6	.0	17.7	
53/59	.0	.0	.5	2.1	4.0	7.4	6.2	.0	20.2	
50/54	.0	.0	.7	1.0	3.3	9.2	7.4	.0	22.3	
43/49	.0	.0	.3	1.1	4.1	6.4	8.8	.0	20.7	
40/44	.0	.0	.1	.7	1.0	1.3	2.7	.0	6.1	
TOTAL									3292	100.0
PCT	.0	.0	.2	2.3	9.2	18.9	33.2	34.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
73/79	.1	.1	.0	.0	.0	.1	.0	.1	.0	.0
75/74	1.1	.3	.1	.2	.2	.2	.1	.3	.0	.0
69/69	2.8	1.7	.8	.4	.7	.7	.8	1.3	.0	.2
60/64	4.2	3.1	1.1	1.1	1.4	2.0	1.3	2.8	.0	.4
53/59	3.8	2.3	1.4	1.4	2.9	2.9	2.6	2.6	.0	.3
50/54	4.2	2.3	1.6	1.2	2.3	3.6	3.1	3.7	.0	.3
43/49	3.3	1.4	1.3	1.6	2.9	3.0	2.8	3.6	.0	.4
40/44	.4	.4	.4	.8	1.3	1.5	.9	.6	.0	.1
TOTAL	20.1	11.9	6.9	6.8	11.8	13.9	11.3	13.4	.0	1.7

TABLE 15

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

HRUR (GMT)	MAX	95%	90%	50%	5%	MIN	MEAN	TOTAL OBS	
00003	81	66	62	54	47	44	34	34.2	7093
06009	79	64	61	34	47	44	34	33.9	4394
12015	83	67	63	35	48	46	34	33.1	8908
18021	86	70	65	37	49	46	34	37.1	4330
TOT	86	67	63	35	48	45	34	33.0	24725

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.2	7.7	16.3	34.1	39.8	83	834		
06009	.0	1.7	7.0	17.4	33.4	38.2	83	773		
12015	.0	2.0	9.4	19.3	36.7	32.3	84	932		
18021	.0	3.7	12.0	22.2	34.5	27.6	82	813		
TOT	0	83	313	618	1168	1172	84	3374		

ANNUAL
 PERIOD: (PRIMARY) 1904-1976
 (OVER-ALL) 1854-1976
 APEA 0013 BAHIA BLANCA
 39.88 57.14

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	37	41	45	49	53	57	61	65	69	73	77	81	85	TOT	W FOG	WD FOG
23/23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
14/16	.0	.0	.0	.0	.0	.1	.0	.1	.1	.2	.2	.1	.1	.0	47	.0	.8
11/13	.0	.0	.0	.0	.0	.1	.2	.1	.3	.3	.3	.2	.1	.0	103	.0	1.4
9/10	.0	.0	.0	.0	.0	.3	.4	.4	.3	.3	.2	.1	.1	.0	156	.1	2.1
7/8	.0	.0	.0	.1	.4	.6	.5	1.0	.6	.6	.4	.1	.0	.0	313	.3	4.2
6	.0	.0	.0	.1	.7	.3	.3	.3	.5	.4	.4	.1	.0	.0	183	.3	2.5
5	.0	.0	.0	.2	1.5	1.0	.8	1.3	.7	.7	.3	.0	.0	.0	433	.7	5.8
4	.0	.0	.0	1.5	1.8	1.3	.9	1.3	1.1	.7	.1	.0	.0	.0	336	1.2	7.3
3	.0	.0	.0	1.2	1.8	1.2	1.0	1.1	.9	.6	.1	.0	.0	.0	312	.3	6.8
2	.0	.0	.1	3.2	2.4	1.4	1.3	1.7	1.3	.3	.0	.0	.0	.0	749	1.2	10.3
1	.0	.0	.3	2.3	1.9	1.6	1.4	1.2	.9	.3	.0	.0	.0	.0	645	1.1	8.9
0	.0	.0	.9	2.9	2.0	1.3	1.1	1.7	1.3	.3	.0	.0	.0	.0	766	.9	10.9
-1	.0	.0	.8	1.3	1.3	.3	.9	.9	.6	.1	.0	.0	.0	.0	428	.7	5.7
-2	.0	.0	.8	1.8	1.3	.9	.9	1.4	.5	.1	.0	.0	.0	.0	344	.3	7.4
-3	.0	.0	.5	1.0	.8	.9	.8	.6	.3	.0	.0	.0	.0	.0	314	.4	4.3
-4	.0	.0	.4	.7	.6	.6	.7	.7	.2	.0	.0	.0	.0	.0	293	.2	3.8
-5	.0	.0	.3	.8	.3	.4	.6	.4	.1	.0	.0	.0	.0	.0	206	.1	3.1
-6	.0	.0	.3	.4	.3	.2	.3	.2	.0	.0	.0	.0	.0	.0	107	.1	1.6
-7/-8	.0	.1	.2	.6	.3	.3	.4	.2	.0	.0	.0	.0	.0	.0	172	.1	2.2
-9/-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	72	.0	.8
-11/-13	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	40	.1	.4
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	.0	.1
TOTAL	.1	.3	4.8	18.1	18.1	13.8	12.8	14.8	9.6	9.0	1.7	.6	.3	.0	6671	9.0	61.0
PCT	.1	.3	4.8	18.1	18.1	13.8	12.8	14.8	9.6	9.0	1.7	.6	.3	.0	100.0	9.0	61.0

PERIOD: (OVER-ALL) 1949-1974

TABLE 18

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

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.3	1.7	.2	.0	.0	.0	1.9	.4	.7	.1	.0	.0	.0	1.3
1-2	.1	2.3	1.8	.0	.0	.0	4.4	.0	2.7	1.0	.0	.0	.0	3.8
3-4	.0	2.7	3.7	.1	.0	.0	6.0	.0	2.2	2.7	.0	.0	.0	5.0
5-6	.0	.1	2.3	.4	.0	.0	2.9	.0	.3	1.2	.1	.0	.0	1.6
7	.0	.1	1.3	.2	.1	.0	1.9	.0	.0	1.3	.2	.0	.0	1.8
8-9	.0	.1	.3	.3	.0	.0	.7	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.2	.3	.0	.0	.5	.0	.0	.3	.2	.0	.0	.3
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	6.1	10.0	1.7	.1	.0	18.6	.3	6.0	7.2	.7	.0	.0	14.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.2	.3	.0	.0	.0	.0	.4	.3	.3	.0	.0	.0	.0	.8
1-2	.0	1.1	.1	.0	.0	.0	1.3	.1	1.3	.3	.0	.0	.0	1.7
3-4	.2	1.2	.8	.0	.0	.0	2.2	.0	.3	.7	.0	.0	.0	1.2
5-6	.0	.1	.8	.0	.0	.0	1.0	.0	.1	.3	.1	.0	.0	.6
7	.0	.0	.6	.2	.0	.0	.9	.0	.0	.8	.1	.0	.0	1.0
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.1	.0	.0	.3
10-11	.0	.0	.0	.1	.1	.0	.2	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.8	2.3	.4	.1	.0	6.1	.4	2.3	2.3	.3	.0	.0	6.9

PERIOD: (OVER-ALL) 1963-1976

ANNUAL
TABLE 10 (CONT)

AREA 0013 BAHIA BLANCA
39.33 37.14

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

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.1	.3	.0	.0	.0	.0	.4	.3	.9	.1	.0	.0	.0	.0	1.3	
1-2	.1	1.6	.8	.0	.0	.0	2.3	.0	2.1	.6	.0	.0	.0	.0	2.7	
3-4	.0	1.1	1.9	.1	.0	.0	3.2	.0	2.0	2.3	.1	.0	.0	.0	4.4	
5-6	.0	.2	1.4	.1	.0	.0	1.7	.0	.1	1.8	.2	.0	.0	.0	2.2	
7	.0	.1	.7	.4	.0	.0	1.2	.0	.1	1.3	.4	.0	.0	.0	1.9	
8-9	.0	.0	.5	.1	.1	.0	.7	.0	.0	.6	.4	.1	.0	.0	1.1	
10-11	.0	.0	.2	.3	.0	.1	.5	.0	.0	.1	.2	.1	.0	.0	.5	
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.2	.0	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	3.3	5.7	1.2	.1	.1	10.3	.4	3.2	7.1	1.8	.4	.0	.0	14.9	

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.1	.5	.0	.0	.0	.0	.6	.2	.5	.0	.0	.0	.0	.0	.7	
1-2	.4	1.7	.6	.0	.0	.0	2.3	.0	2.5	1.0	.0	.0	.0	.0	3.5	
3-4	.0	.4	1.4	.2	.0	.0	2.4	.0	1.7	2.6	.1	.0	.0	.0	4.5	
5-6	.0	.4	1.4	.2	.0	.0	2.0	.0	.4	1.6	.2	.0	.0	.0	2.2	
7	.0	.2	.8	.1	.1	.0	1.2	.0	.1	.3	.2	.0	.0	.0	1.6	
8-9	.0	.0	.3	.3	.0	.0	.6	.0	.0	.3	.3	.0	.0	.0	.5	
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	.2	.3	.0	.0	.0	.4	
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.2	.1	.0	.3	.0	.0	.0	.1	.0	.0	.0	.2	
17-19	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	3.6	4.9	1.2	.2	.0	10.0	.2	3.3	6.7	.9	.1	.0	.0	13.1	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.3	4.9	.5	.0	.0	.0	13.9	3392
1-2	.6	13.3	6.2	.0	.0	.0	22.3	
3-4	.2	11.7	16.2	.7	.0	.0	28.8	
5-6	.0	1.8	11.0	1.4	.0	.0	14.2	
7	.1	.0	8.1	1.3	.3	.0	10.9	
8-9	.1	.1	2.7	1.3	.2	.0	4.6	
10-11	.0	.0	1.2	1.6	.2	.1	3.0	
12	.0	.0	.1	.6	.1	.0	.8	
13-16	.0	.0	.2	.7	.2	.0	1.2	
17-19	.0	.0	.2	.1	.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	9.3	34.6	44.3	6.4	1.0	.1	100.0	

PERIOD: (OVER-ALL) 1951-1976

TABLE 10

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			
<1	2.0	9.8	16.4	7.4	3.2	1.5	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1741	4		
1-2	.0	1.7	5.3	6.0	3.3	2.8	1.1	.4	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	943	6	
3-4	.0	.0	1.3	2.1	2.3	1.3	1.2	.7	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	332	7
5-6	.0	.0	.3	.7	.8	.6	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	186	6
7-9	.0	.0	.0	.3	.4	.2	.1	.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	72	6
10-11	.0	.0	.0	.3	.3	.4	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	8
12-13	.0	.0	.0	.3	.3	.4	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1112	3
14-15	.0	.0	.0	.3	.3	.4	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4520	3
TOTAL PCT	6.7	16.1	28.0	19.3	13.8	7.5	4.0	2.0	1.7	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1904-1976
(OVER-ALL) 1854-1976

APEA 0013 BAHIA BLANCA
39.95 57.1W

TABLE 20

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

SEA TEMP DEC 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	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.8
73/74	1.0	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	12	.1
71/72	1.3	2.2	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	39	.2
69/70	3.1	7.1	3.9	.5	.1	.0	.0	.0	.0	.0	.1	.4	112	.4
67/68	6.3	17.4	10.9	3.0	.1	.0	.0	.0	.0	.0	.1	1.3	371	1.4
65/66	13.3	14.3	15.7	4.3	.3	.2	.0	.0	.0	.0	.4	1.5	974	3.8
63/64	20.3	16.9	20.9	10.8	2.0	.8	.2	.2	.0	.0	.6	2.6	1148	4.4
61/62	19.0	11.2	14.2	12.0	3.2	.8	.2	.2	.1	.2	2.2	7.9	1838	7.1
59/60	12.3	10.6	12.3	12.4	4.4	1.4	.9	.4	.1	.4	3.8	14.1	1397	6.2
57/58	9.8	7.1	9.5	18.4	7.9	1.6	.6	.9	.5	.7	7.3	18.3	1792	6.9
55/56	6.6	4.9	5.7	14.3	13.3	2.3	.4	1.2	.8	1.3	11.3	19.7	1621	7.1
53/54	5.8	3.4	4.3	11.1	13.8	2.4	1.1	.9	.9	4.2	13.7	12.4	1631	7.2
51/52	3.1	1.8	2.4	6.3	14.2	9.8	6.7	4.9	3.3	15.4	13.8	8.8	1693	6.6
49/50	1.1	.2	.6	4.0	13.3	15.1	10.3	11.0	9.8	20.7	13.8	3.3	2263	8.8
47/48	.1	.0	.1	1.4	13.3	16.9	13.7	14.3	18.0	27.3	8.8	1.3	2499	9.7
45/46	.0	.0	.1	.3	11.2	23.9	23.1	26.2	41.4	16.6	4.0	.1	3234	12.6
43/44	.0	.0	.0	.0	.9	16.8	23.1	23.9	19.8	4.4	.8	.0	1810	7.0
41/42	.0	.0	.0	.0	.0	1.8	8.9	13.7	6.0	.6	.0	.0	638	2.3
39/40	.0	.0	.0	.0	.1	.4	1.1	1.8	.6	.1	.0	.0	86	.3
37/38	.0	.0	.0	.0	.0	.0	.2	.0	.5	.1	.0	.0	18	.1
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
15	.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
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	1534	2437	2904	2198	1918	2099	1960	2139	2337	2138	2227	1890	238.5	100.0
MEAN	61.7	63.0	61.9	57.9	52.1	48.2	46.3	43.7	48.3	49.1	53.6	57.7	53.6	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1011	1013	1009	1012	1012	1011	1010	1012	1011	1101
FEB	1012	1012	1012	1012	1013	1013	1012	1012	1012	1388
MAR	1014	1014	1014	1014	1013	1013	1013	1014	1014	2309
APR	1014	1014	1014	1013	1013	1013	1013	1013	1014	1666
MAY	1016	1017	1014	1016	1017	1016	1014	1016	1016	1362
JUN	1013	1016	1017	1015	1016	1016	1016	1015	1016	1444
JUL	1017	1017	1017	1017	1017	1017	1016	1017	1017	1388
AUG	1017	1016	1018	1016	1018	1016	1016	1016	1017	1313
SEP	1020	1019	1019	1018	1020	1019	1019	1018	1019	1671
OCT	1016	1016	1016	1016	1016	1016	1017	1016	1016	1498
NOV	1014	1014	1013	1013	1014	1014	1013	1014	1014	1367
DEC	1011	1011	1011	1011	1012	1013	1012	1011	1012	1044
ANN	1013	1013	1013	1014	1013	1013	1013	1013	1013	18117
OBS	3282	1814	1847	1800	3349	2843	1834	1826		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	994	998	1002	1007	1011	1016	1022	1025	1029
FEB	992	999	1003	1009	1012	1016	1021	1023	1028
MAR	992	998	1004	1010	1013	1019	1024	1027	1031
APR	988	995	1001	1010	1013	1019	1023	1028	1031
MAY	993	997	1003	1011	1016	1021	1027	1033	1037
JUN	992	996	1001	1009	1013	1022	1029	1033	1037
JUL	989	996	1003	1011	1017	1023	1031	1036	1040
AUG	991	997	1002	1011	1016	1022	1030	1035	1038
SEP	994	1001	1007	1014	1019	1024	1033	1037	1040
OCT	993	998	1004	1011	1016	1022	1028	1031	1035
NOV	989	999	1004	1010	1014	1018	1024	1028	1035
DEC	986	996	1000	1007	1011	1017	1023	1027	1032

PERIOD: (PRIMARY) 1908-1976
(OVER-ALL) 1871-1976

JANUARY

AREA 0014 RAWSON
43.75 81.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	3.6	.3	.3	.0	94.8
NE	.8	.0	.0	.0	.0	.0	.0	.8	.2	.0	1.2	.0	.8	.0	97.0
E	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	1.9	.0	96.7
SE	.0	2.0	.0	.0	.0	.0	.0	2.0	.0	.0	4.1	.0	.0	.0	93.9
S	.7	1.8	.0	.0	.0	.0	.0	2.5	.5	.0	1.3	.0	.7	.0	93.7
SW	.8	.6	.0	.0	.0	.0	.0	1.3	.5	.4	.0	.0	.4	.0	97.4
W	.0	1.3	.0	.0	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	.0	97.2
NW	1.7	.0	.0	.0	.0	.0	.0	1.7	1.0	.0	2.9	.0	.2	.0	94.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	98.0
CALM	1.0	.0	1.0	.0	.0	.0	.0	2.1	1.0	.0	3.1	.0	.0	.0	93.8
TOT PCT	.6	.6	.1	.0	.0	.0	.0	1.2	.5	.2	1.8	.1	.3	.0	95.9
TOT OBS:	1207														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	.0	.3	.0	.0	.0	.0	.0	.3	.3	.0	1.3	.0	.0	.0	98.0
0600	1.4	1.7	.3	.0	.0	.0	.0	3.3	.7	.3	1.4	.0	.3	.0	93.8
1200	.6	.0	.0	.0	.0	.0	.0	.6	.6	.3	2.1	.0	.6	.0	95.8
1800	.3	.3	.0	.0	.0	.0	.0	.7	.3	.0	2.3	.3	.7	.0	96.0
TOT PCT	.6	.6	.1	.0	.0	.0	.0	1.2	.5	.2	1.8	.1	.3	.0	95.9
TOT OBS:	1226														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.9	4.7	6.9	3.3	.1	.0	16.1	15.1	17.1	14.3	21.3	13.8	16.4	13.6	16.7	10.8
NE	.3	3.4	3.3	.3	.0	.0	7.6	11.4	12.8	3.6	13.3	4.2	4.2	5.1	7.3	3.8
E	.4	2.1	1.0	.1	.0	.0	3.7	9.3	4.8	2.7	3.2	3.8	4.0	1.7	3.3	2.6
SE	.4	2.1	2.0	.3	.0	.0	4.8	11.3	6.1	3.0	3.4	4.3	4.8	4.9	2.7	7.3
S	.8	4.3	4.8	1.0	.4	.1	11.6	13.6	13.3	13.2	10.6	7.7	11.8	10.3	11.3	13.0
SW	.7	4.3	4.8	.3	.3	.1	18.6	13.6	14.3	11.4	11.7	16.4	22.3	20.4	31.1	14.3
W	.6	3.7	4.7	1.6	.3	.1	13.2	13.9	11.1	14.6	12.4	18.2	16.4	21.3	7.6	22.7
NW	.9	6.8	7.2	1.9	.3	.0	17.0	12.9	14.6	20.9	9.1	18.1	16.2	21.1	10.8	22.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3						3.3	.0	3.6	4.1	11.1	3.6	3.3	1.3	9.3	2.9
TOT OBS	247	831	938	282	42	8	2388	12.9	483	189	396	188	490	329	300	171
TOT PCT	10.3	33.6	40.1	11.8	1.8	.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	2.7	6.4	6.0	1.1	.0	16.1	15.1	16.4	18.8	13.3	13.3	14.3	14.3
NE	1.3	4.7	1.2	.1	.0	7.6	11.4	10.9	10.1	4.3	5.0		
E	1.2	2.1	.4	.0	.0	3.7	9.3	4.2	4.6	3.1	3.1		
SE	1.4	2.4	.8	.1	.0	4.8	11.3	3.8	3.8	4.8	4.4		
S	2.8	3.3	2.6	.7	.3	11.6	13.6	13.3	9.6	11.3	11.9		
SW	3.2	6.3	3.7	1.2	.3	18.6	13.6	13.7	13.3	21.6	23.1		
W	3.0	7.5	3.4	1.1	.3	13.2	13.9	12.6	13.2	16.3	13.1		
NW	3.4	9.0	3.9	.8	.0	17.0	12.9	17.9	16.0	18.2	13.0		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.3					3.3	.0	3.2	4.4	2.7	7.0		
TOT OBS	383	1092	572	123	18	2388	12.9	534	484	819	471		
TOT PCT	24.4	43.7	24.0	5.2	.8	100.0	100.0	100.0	100.0	100.0	100.0		

JANUARY

PERIOD: (PRIMARY) 1900-1976
(OVER-ALL) 1871-1976

AREA 0014 RAWSON
43.75 61.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT PREC	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	5.2	6.2	39.9	39.1	8.0	1.1	.5	11.6	100.0	634
0600Z	6.4	5.4	32.8	38.1	13.4	1.7	.2	13.0	100.0	404
1200Z	2.7	5.1	39.6	40.5	14.9	2.8	.4	14.0	100.0	819
1800Z	7.0	3.0	36.3	42.7	10.0	.8	.2	12.4	100.0	471
TOT	127	120	851	958	282	42	8	12.9		1388
PCT	5.3	9.0	35.6	40.1	11.8	1.8	.3	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
NE	3.1	2.8	3.4	.6	3.7	
E	1.2	1.3	1.6	.2	3.9	
SE	.8	1.2	1.8	.3	4.2	
S	3.8	3.4	3.0	1.2	4.1	
SW	7.9	5.7	6.6	1.5	3.6	
W	4.0	2.4	2.9	.9	3.6	
NW	3.0	3.1	3.1	.9	3.8	
VAR	.0	.0	.0	.0	.0	
CALM	3.1	1.9	2.0	.7	3.4	
TOT OBS	388	272	334	74	1037	
TOT PCT	34.2	26.8	32.4	7.1	100.0	

TABLE 6

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

WIND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 5499	6500 7999	8000+	NH <5/8	TOTAL ANY HGT OBS
NE	.0	.0	.0	.0	.4	.8	.6	.1	.4	.5	7.1	
E	.1	.0	.0	.0	.4	.6	.1	.2	.0	.2	2.7	
SE	.0	.0	.0	.0	.2	.5	.3	.1	.0	.0	3.1	
S	.2	.0	.0	.3	.9	1.9	.4	.5	.3	.5	8.3	
SW	.0	.1	.0	.1	.9	3.2	1.5	.0	.4	.1	13.2	
W	.0	.0	.0	.0	.5	1.6	.4	.0	.0	.1	7.6	
NW	.0	.0	.0	.1	.3	1.0	.3	.1	.2	.1	7.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.0	.3	.9	.9	.1	.0	.2	5.7	
TOT OBS	7	2	1	7	52	136	45	12	19	22	734	
TOT PCT	.7	.2	.1	.7	5.0	13.1	4.5	1.2	1.8	2.1	70.8	

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>5	>3	>1	>1/2	>1/4	>50YD	>0
>3000	3.3	3.6	3.9	3.9	3.9	3.9	3.9	3.9
>2000	4.3	4.8	5.0	5.0	5.0	5.0	5.0	5.0
>1500	8.8	9.3	9.6	9.6	9.6	9.6	9.6	9.6
>1000	18.8	22.1	22.8	22.8	22.8	22.8	22.8	22.8
>800	22.3	26.9	27.7	27.7	27.7	27.7	27.7	27.7
>600	23.0	27.4	28.4	28.4	28.4	28.4	28.4	28.4
>400	23.0	27.5	28.3	28.3	28.3	28.3	28.3	28.3
>150	23.1	27.6	28.6	28.6	28.6	28.6	28.6	28.6
>0	23.2	27.9	29.0	29.0	29.1	29.1	29.2	29.3
TOTAL	244	293	303	303	306	306	307	308

TOTAL NUMBER OF OBS: 1050

PCT FREQ NH <5/8: 70.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	UBSCD	TOTAL OBS
28.5	7.4	13.3	12.4	9.3	8.6	8.6	6.3	5.8	.4	1053

PERIOD: (PRIMARY) 1908-1976
(OVB -ALL) 1871-1976

JANUARY

AREA 0014 RANSON
43.7S 61.9W

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCY	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	TOT %	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.2	.0	.1	.2	.0	.0	.0	.5
	NO PCP	.6	.3	.1	.2	.2	.1	.2	.2	.0	.0	.3	2.1
	TOT %	.6	.3	.1	.2	.3	.1	.3	.4	.0	.0	.3	2.6
5<10	PCP	.0	.1	.0	.1	.1	.3	.0	.0	.0	.0	.0	.7
	NO PCP	4.8	1.2	.9	.6	1.9	1.7	1.3	.7	.0	1.0	1.0	13.1
	TOT %	4.8	1.3	.9	.6	1.4	1.9	1.3	.7	.0	1.2	1.0	13.8
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	12.7	8.7	3.7	3.3	10.6	19.6	9.3	8.9	.0	6.3	83.3	83.3
	TOT %	12.7	8.7	3.7	3.3	10.6	19.6	9.3	8.9	.0	6.3	83.3	83.3
TOT OBS													1207
TOT PCT													18.3 10.3 4.3 4.1 12.4 21.6 11.0 10.0 .0 8.0 100.0

TABLE 9

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

VSBY (MM)	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	.0	.0	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	.1	.1	.2	.0	.1	.2	.0	.0	.0	.9
	11-21	.1	.2	.0	.1	.2	.1	.2	.1	.0	.0	.0	.9
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.6	.3	.1	.2	.3	.1	.3	.3	.0	.0	.0	2.4
5<10	0-3	.0	.0	.0	.1	.1	.0	.0	.0	.0	1.1	1.3	1.3
	4-10	1.0	.3	.3	.1	.9	.5	.1	.2	.0	.0	.0	3.6
	11-21	2.0	.8	.3	.5	.3	1.1	.9	.4	.0	.0	.0	6.2
	22+	1.8	.2	.0	.0	.1	.2	.3	.1	.0	.0	.0	2.6
	TOT %	4.8	1.4	.6	.7	1.3	1.8	1.3	.7	.0	1.1	1.3	13.7
10+	0-3	.1	.2	.1	.1	.2	.3	.0	.2	.0	6.2	7.5	7.5
	4-10	1.9	4.1	2.2	1.7	4.3	7.0	4.0	4.5	.0	.0	.0	31.8
	11-21	3.9	4.2	1.1	1.4	3.7	9.4	4.6	4.2	.0	.0	.0	36.3
	22+	2.6	.0	.2	.0	.5	3.4	.7	.4	.0	.0	.0	7.7
	TOT %	12.4	8.5	3.6	3.3	10.7	20.1	9.3	9.3	.0	6.2	43.3	43.3
TOT OBS													1268
TOT PCT													18.0 10.2 4.3 4.1 12.3 22.1 10.9 10.4 .0 7.6 100.0

JANUARY

PERIOD: (PRIMARY) 1908-1976
(OVER-ALL) 1871-1976

AREA 0014 RAWSON
42.75 81.9W

TABLE 10

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

HOUR (GMT)	000	100	300	600	1000	2000	3000	6000	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	149	299	399	999	1999	3499	4999	6499	7999			
0000	.0	.0	.0	.3	3.8	10.3	4.5	1.0	2.4	2.1	32.4	290
0600	2.5	.0	.5	1.0	7.0	12.0	3.5	1.0	.5	2.5	30.5	300
1200	.0	.7	.0	.7	4.6	12.5	4.9	2.0	2.0	1.3	28.6	304
1800	.7	.0	.0	.7	4.6	8.9	4.6	.4	1.8	2.5	24.1	282
TOT	7	2	1	7	32	140	48	12	19	22	310	766
PCT	.7	.2	.1	.7	4.8	15.0	4.3	1.1	1.8	2.0	28.8	107.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-4	4-10	10+	TOTAL OBS
0000	.3	.0	.0	1.2	11.1	87.3	324
0600	.0	.0	.0	3.7	23.8	70.5	298
1200	.3	.0	.0	3.3	12.8	84.7	332
1800	.3	.3	.0	1.0	7.3	91.1	313
TOT	3	1	0	32	175	1076	1287
PCT	.2	.1	.0	2.3	13.6	83.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ NH AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000	.0	.0	1.7	31.0	67.7	287
0600	2.7	3.2	8.0	26.7	69.2	187
1200	.3	.7	3.7	26.9	69.4	297
1800	.7	.7	1.8	22.6	75.6	279
TOT	3	10	36	282	732	1050
PCT	.3	1.0	3.4	26.9	69.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.0	.0	.7	.0	1	.7
65/69	.0	.0	.0	1.4	.0	3.6	1.4	2.1	12	8.6
60/64	.0	.0	.0	1.4	11.4	11.4	20.7	8.4	73	33.6
55/59	.0	.0	.0	1.4	6.4	4.3	9.3	6.4	39	27.9
50/54	.0	.0	.0	.7	3.6	2.1	2.9	.0	13	9.3
TOTAL	0	0	0	6	24	32	48	28	160	100.0
PCT	.0	.0	.0	4.3	15.0	22.9	34.3	20.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0
65/69	4.3	.0	.8	.0	1.1	.4	.7	.0	.0	.0
60/64	6.8	3.0	3.0	.9	3.8	10.9	12.7	8.0	.0	.7
55/59	6.3	2.3	.0	1.6	3.4	2.0	4.3	3.9	.0	2.1
50/54	1.3	.2	.7	.0	1.1	3.2	.7	1.4	.0	.7
TOTAL	18.6	6.0	6.3	2.5	11.3	17.1	16.4	16.3	.0	3.6

TABLE 15

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

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	78	72	68	61	53	49	48	61.1	631
0600	73	68	67	61	52	48	48	60.2	462
1200	82	73	69	63	54	50	48	61.8	791
1800	82	79	73	63	56	52	50	64.9	449
TOT	82	75	70	62	53	50	48	61.9	2333

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	8.6	20.0	8.6	42.9	20.0	80	35		
0600	.0	.0	6.7	30.0	30.0	13.3	82	30		
1200	.0	.0	22.0	28.8	26.8	24.4	81	41		
1800	.0	7.7	20.3	28.2	23.1	20.3	78	39		
TOT	0	6	26	34	30	29	80	149		

JANUARY

PERIOD: (PRIMARY) 1908-1976
(OVER-ALL) 1871-1976

AREA 0014 RAWSON
43.78 61.9W

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	45	49	53	57	61	65	69	73	77	81	TOT	W FOG	W0 FOG
	48	52	56	60	64	68	72	76	80	84			
23/29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.2
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	6	.0	.5
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	11	.0	.9
11/13	.0	.0	.0	.0	.1	.0	1.8	.8	.3	.0	37	.0	3.1
9/10	.0	.0	.0	.1	.0	.3	2.9	.4	.1	.0	46	.2	3.6
7/8	.0	.0	.0	.0	.0	3.7	2.7	.2	.0	.0	79	.2	6.3
6	.0	.0	.0	.1	.4	2.9	.3	.0	.0	.0	45	.1	3.7
5	.0	.0	.1	.0	3.3	3.1	.7	.0	.0	.0	111	.2	9.0
4	.0	.0	.2	.2	5.4	3.2	.9	.0	.0	.0	144	.2	11.8
3	.0	.0	.1	.2	4.4	2.0	.2	.0	.0	.0	83	.0	6.9
2	.0	.0	.0	.2	9.4	2.9	.2	.0	.0	.0	153	.2	12.4
1	.0	.0	.2	1.2	3.1	1.0	.1	.0	.0	.0	91	.2	7.0
0	.0	.0	.4	2.0	7.7	.7	.0	.0	.0	.0	130	.2	10.6
-1	.0	.0	.0	2.3	1.4	.2	.0	.0	.0	.0	48	.0	4.0
-2	.0	.1	.0	2.9	1.7	.1	.0	.0	.0	.0	98	.1	4.7
-3	.0	.0	.3	1.7	.2	.0	.0	.0	.0	.0	26	.1	2.1
-4	.0	.0	.3	2.3	.2	.0	.0	.0	.0	.0	35	.1	2.8
-5	.0	.0	1.7	.4	.1	.0	.0	.0	.0	.0	27	.0	2.2
-6	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	5	.0	.4
-7-8	.0	.1	2.3	.2	.1	.0	.0	.0	.0	.0	33	.1	2.7
-9-10	.0	.0	.7	.1	.0	.0	.0	.0	.0	.0	19	.0	1.6
-11-13	.3	.2	.3	.0	.0	.0	.0	.0	.0	.0	14	.0	1.2
TOTAL	.4		.84		.676		.290		.118		1205		1183
PCT	.3	1.6	7.0	14.1	39.5	24.1	9.8	2.3	1.0	.3	100.0	1.8	98.2

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

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

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.1	.5	.1	.0	.0	2.6	.1	2.1	.8	.0	.0	.0	3.1
3-4	.0	1.9	1.9	.0	.0	.0	3.7	.0	1.4	2.2	.0	.0	.0	3.7
5-6	.0	.4	4.4	.0	.0	.0	3.5	.0	.1	1.4	.0	.0	.0	1.8
7	.0	.0	2.2	1.2	.0	.0	3.4	.0	.0	1.4	.1	.0	.0	.5
8-9	.0	.0	.7	.3	.0	.0	1.0	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.3	1.6	.0	.0	1.9	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.1	1.3	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
89+	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.1	8.4	5.8	.0	.0	19.0	.2	4.3	3.4	.3	.0	.0	10.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.1	.9	.0	.0	.0	.0	.7	.2	.4	.0	.0	.0	.0	.6
1-2	.1	1.3	.7	.0	.0	.0	1.4	.0	.9	.8	.0	.0	.0	1.8
3-4	.0	.3	.2	.0	.0	.0	1.4	.0	.3	.4	.0	.0	.0	.8
5-6	.0	.1	.3	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
89+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.4	1.2	.2	.0	.0	4.0	.3	.6	1.8	.0	.0	.0	3.6

PERIOD: (OVER-ALL) 1963-1974

JANUARY

AREA 0014 RAWSON
43.75 61.9M

TABLE 18 (CONT)

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	1.3	.0	.0	.0	.0	1.5	.4	1.3	.1	.0	.0	.0	2.1
1-2	.1	2.1	.9	.0	.0	.0	3.1	.0	2.6	1.1	.0	.0	.0	3.6
3-4	.0	1.4	1.8	.0	.0	.0	3.1	.0	1.6	2.6	.0	.0	.0	4.2
5-6	.0	.1	.6	.0	.0	.0	1.7	.0	.4	2.4	.4	.0	.0	3.2
7	.0	.0	1.7	.1	.0	.0	1.8	.0	.1	2.9	.3	.0	.0	3.3
8-9	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.8	1.3	.0	.0	2.1
10-11	.0	.0	.2	.3	.0	.0	.3	.0	.0	.8	1.1	.0	.0	1.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.3
13-16	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.4	.1	.0	.6
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.8	8.3	.4	.1	.0	12.0	.4	6.2	10.8	3.9	.1	.0	21.3

HGT	N						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.7	.1	.0	.0	.0	.8	.1	1.2	.0	.0	.0	.0	1.4	
1-2	.0	1.3	.4	.0	.0	.0	1.9	.0	1.7	.3	.0	.0	.0	2.2	
3-4	.0	.9	1.9	.0	.0	.0	2.9	.0	1.3	1.7	.1	.0	.0	3.3	
5-6	.0	.6	.7	.3	.0	.0	1.3	.0	.6	1.2	.0	.0	.0	1.2	
7	.0	.0	.9	.4	.0	.0	1.3	.0	.0	1.0	.3	.0	.0	1.2	
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	.2	.0	.0	.0	.3	
10-11	.0	.0	.1	.1	.1	.0	.3	.0	.0	.2	.2	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.7	4.3	1.0	.1	.0	9.1	.1	4.3	4.8	.3	.0	.0	10.0	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.3	7.7	.4	.0	.0	.0	19.2	
1-2	.3	14.2	4.9	.0	.0	.0	19.4	
3-4	.0	9.7	13.1	.3	.0	.0	23.1	
5-6	.0	1.8	9.9	1.1	.0	.0	12.8	
7	.0	.1	9.4	2.6	.0	.0	12.1	
8-9	.0	.0	3.3	1.8	.0	.0	5.1	
10-11	.0	.0	1.7	3.3	.1	.0	5.1	
12	.0	.0	.2	1.6	.0	.0	1.8	
13-16	.0	.0	.1	1.1	.1	.0	1.3	
17-19	.0	.0	.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	11.9	33.0	43.1	11.8	.3	.0	100.0	901

PERIOD: (OVER-ALL) 1950-1974

TABLE 19

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

BRID (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.0	11.0	17.2	8.2	3.6	1.3	1.8	.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	484	4
6-7	.0	.4	4.5	4.9	8.8	3.1	2.6	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	284	6
8-9	.0	.0	.7	.9	1.6	.6	.8	.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	8
10-11	.0	2.1	.1	.1	.2	.2	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	4
12-13	.0	.0	3.5	1.3	.8	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	5
15	.0	.0	.0	.3	.9	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	3
INDEX	3.4	2.1	1.7	1.3	1.7	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	137	3
TOTAL	66	162	288	131	183	64	53	19	13	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1040	5
PCT	6.3	15.6	27.7	12.4	17.6	6.2	5.1	1.8	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1907-1975
(OVC ALL) 1871-1975

AREA 0014 RANSON
43.55 81.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCP.1	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.6	.0	.0	.0	.0	.0	.0	.6	.5	.0	5.0	.0	1.3	.0	92.6
NE	.0	.0	1.8	.0	.0	.0	.0	1.8	1.8	.0	4.0	.0	.0	.0	92.4
E	4.2	.0	.0	.0	.0	.0	.0	4.2	8.3	4.2	4.2	.0	.0	.0	79.2
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	.0	.0	.0	94.0
S	.0	1.4	.0	.0	.0	.0	.0	1.4	2.8	.0	.0	.0	.0	.0	95.8
SW	.0	1.4	.0	.0	.0	.0	.0	1.4	1.4	.0	1.2	.0	.8	.0	94.9
W	1.4	1.4	.0	.0	.0	.0	.0	2.7	.0	1.4	.9	.0	.0	.0	95.9
NW	.9	.9	.0	.0	.0	.0	.0	1.0	.2	.9	2.8	.0	.0	.0	95.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.6	.7	.1	.0	.0	.0	.0	1.5	1.2	.4	2.9	.0	.4	.0	94.2
TOT OBS:	685														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	1.2	1.2	.0	.0	.0	.0	.0	2.3	1.2	1.2	3.5	.0	.6	.0	91.8
0600	1.3	.6	.6	.0	.0	.0	.0	2.9	.6	.0	1.3	.0	.0	.0	94.9
1200	.0	.6	.0	.0	.0	.0	.0	.9	1.1	.0	2.8	.0	1.1	.0	94.3
1800	.0	.9	.0	.0	.0	.0	.0	.9	1.6	.0	2.2	.0	.0	.0	95.6
TOT PCT	.6	.7	.1	.0	.0	.0	.0	1.4	1.2	.4	2.5	.0	.4	.0	94.2
TOT OBS:	690														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	00					06	12	18	21		
N	1.1	3.4	7.8	2.5	.3	.0	17.2	14.1	19.3	15.7	26.0	17.8	19.8	14.0	17.3	14.2
NE	1.1	3.3	2.9	.4	.1	.0	7.7	10.7	7.7	8.2	11.2	9.8	7.2	8.6	8.9	7.0
E	.7	2.4	1.4	.1	.0	.0	4.6	8.6	3.4	6.1	3.4	3.4	3.4	3.0	2.9	3.4
SE	.7	2.1	2.2	1.1	.3	.1	6.3	13.9	8.3	9.3	1.3	6.2	4.3	6.2	2.0	11.0
S	.4	4.2	3.7	2.3	.4	.0	10.9	15.0	14.8	9.4	4.3	9.1	9.7	10.1	13.8	13.1
SW	.8	3.9	6.6	3.8	1.2	.2	19.3	16.3	19.6	15.8	16.7	15.9	21.3	20.6	22.4	18.4
W	.8	3.4	3.1	3.4	.4	.1	13.1	13.1	11.2	13.3	13.6	10.9	19.2	16.3	14.8	11.9
NW	.7	6.2	7.0	2.4	.3	.0	16.3	14.0	12.9	17.3	17.7	7.8	16.7	18.2	13.6	16.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2						3.2	.0	4.7	4.8	3.6	4.1	2.0	1.5	4.7	2.1
TOT OBS	184	681	714	309	34	6	1948	13.8	341	188	188	193	332	340	171	193
TOT PCT	9.4	35.0	36.7	15.9	2.8	.3	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	2.9	8.0	3.4	.8	.0	17.2	14.1	18.1	21.6	14.9	15.3	
NE	2.8	3.3	1.4	.2	.0	7.7	10.7	7.9	8.2	7.8	5.9	
E	1.9	2.4	.3	.0	.0	4.6	8.6	3.6	4.3	4.2	4.0	
SE	2.0	1.9	1.8	.3	.1	6.3	13.9	8.6	3.9	3.3	1.0	
S	2.4	4.1	3.4	.9	.2	10.9	15.0	12.7	7.0	9.9	10.4	
SW	2.7	7.9	3.1	2.1	.7	18.3	16.3	15.7	16.0	11.0	20.3	
W	3.0	6.1	4.0	1.9	.1	15.1	13.1	12.0	16.3	11.6	13.3	
NW	3.0	7.6	4.6	1.3	.4	16.3	14.0	14.3	18.7	17.6	10.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.2					3.2	.0	4.7	3.9	1.1	1.3	
TOT OBS	465	806	305	132	20	1948	13.8	329	363	65	260	
TOT PCT	23.9	41.4	25.9	7.8	1.0	100.0		100.0	100.0	100.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1907-1975
(OVER-ALL) 1871-1975

AREA 0014 RAWSON
43.85 61.1M

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						48+	MEAN	PCT PREG	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
0000Z	4.7	6.6	36.7	36.7	12.1	2.8	.4	13.0	100.0	329	
0400Z	3.9	6.6	36.6	33.6	16.0	2.5	.8	13.6	100.0	363	
1200Z	1.7	6.1	32.5	37.1	18.9	3.5	.1	14.6	100.0	492	
1800Z	3.3	5.5	35.4	38.7	15.4	1.6	.0	13.5	100.0	364	
TOT	63	121	481	714	309	54	6	13.8		1948	
PCT	3.2	6.2	35.0	36.7	15.9	2.8	.3	100.0			

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	1.3	3.3	2.9	1.3		4.5
E	.8	.0	1.4	.5		4.7
SE	.6	.4	1.2	.2		4.9
S	2.3	2.9	3.7	.3		4.2
SW	3.5	6.0	6.0	1.3		3.8
W	3.7	3.9	4.0	1.1		3.5
NW	3.3	3.8	2.6	1.0		3.3
VAR	.0	.0	.0	.0		.0
CALM	2.0	.7	1.0	.2		2.7
TOT OBS	184	184	181	44	396	3.7
TOT PCT	31.2	30.9	30.4	7.4	100.0	

TABLE 6

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

WIND DIR	CEILING HEIGHTS (FT, MM >4/8)										NH <5/8 ANY HGT	TOTAL OBS
	000	150	300	400	1000	2000	3000	5000	6500	8000+		
N	.3	.0	.0	.2	.7	1.9	.5	.0	.7	.3	16.8	
NE	.0	.0	.2	.0	1.3	.3	.0	.0	.3	.0	6.5	
E	.2	.0	.0	.0	.5	.4	.1	.0	.0	.0	1.5	
SE	.2	.0	.0	.2	.5	.4	.1	.0	.0	.0	1.0	
S	.0	.0	.0	.2	2.0	1.8	.5	.3	.0	.0	6.3	
SW	.0	.0	.0	.2	2.6	1.3	.0	.2	.0	.0	13.8	
W	.0	.0	.0	.1	1.7	1.4	.0	.0	.3	.0	12.7	
NW	.2	.0	.0	.0	.8	1.1	.0	.0	.0	.0	12.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.2	.0	.0	.3	.2	3.0	
TOT OBS	3	0	2	4	82	33	11	2	12	3	440	396
TOT PCT	.8	.0	.5	.7	10.4	9.2	1.8	.5	2.0	.9	73.8	100.0

TABLE 7

CUMULATIVE PCT PREG OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (MM >4/8) AND VSBY (MM)

CEILING (FEET)	VSBY (MM)							
	>10	>5	>2	>1	>1/2	>1/4	>0.050	>0
>OR >3000	2.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3
>OR >5000	2.4	2.9	2.9	2.9	2.9	2.9	2.9	2.9
>OR >3500	3.9	4.4	4.7	4.7	4.7	4.7	4.7	4.7
>OR >2000	11.3	13.2	13.8	13.8	13.8	13.8	13.8	13.8
>OR >1000	17.9	23.1	24.5	24.5	24.5	24.5	24.5	24.5
>OR >500	18.2	23.8	23.1	23.1	23.1	23.1	23.1	23.1
>OR >300	18.2	23.9	23.5	23.5	23.5	23.5	23.5	23.5
>OR >150	18.2	23.9	23.5	23.5	23.5	23.5	23.5	23.5
>OR >0	18.2	24.3	25.0	25.0	25.0	25.0	25.0	25.0
TOTAL	108	144	133	133	133	133	136	136

TOTAL NUMBER OF OBS: 393

PCT PREG NH <5/8: 73.7

TABLE 7A

PERCENTAGE PREG OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
26.2	9.1	15.6	16.0	10.4	7.9	8.4	4.3	5.4	.8	608

FEBRUARY

PERIOD: (PRIMARY) 1907-1975
(OVER-ALL) 1971-1975

AREA 0014 RAWSON
42.88 61.1W

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.6
	TOT %	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.6
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.3
	TOT %	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.3
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.1	.0	.0	.0	.1	.1	.0	.0	.0	.0	.4
	NO PCP	1.0	.6	.3	.2	.1	.4	.1	.6	.0	.1	.3	3.3
	TOT %	1.0	.7	.3	.2	.1	.5	.2	.6	.0	.1	.3	4.0
5<10	PCP	.1	.0	.1	.0	.1	.1	.3	.1	.0	.0	.0	1.0
	NO PCP	6.7	1.6	1.0	.8	1.3	2.1	1.9	2.7	.0	.4	.4	18.7
	TOT %	6.9	1.6	1.1	.8	1.4	2.2	2.2	2.9	.0	.4	.4	19.8
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	14.4	3.9	2.0	1.3	8.6	15.6	13.3	11.2	.0	2.9	.4	73.4
	TOT %	14.4	3.9	2.0	1.3	8.6	15.6	13.3	11.2	.0	2.9	.4	73.4
TOT OBS													683
TOT PCT		22.6	8.2	3.5	2.5	10.4	18.3	16.1	14.7	.0	3.5	100.0	

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3
	11-21	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	.7
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1
	22+	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.3
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.3	.1	.1	.1	.0	.2	.2	.3	.0	.0	.0	1.4
	11-21	.8	.4	.1	.0	.0	.3	.1	.1	.0	.0	.0	1.9
	22+	.0	.1	.0	.0	.1	.1	.0	.1	.0	.0	.0	.4
	TOT %	1.1	.7	.2	.2	.1	.6	.3	.6	.0	.0	.1	4.0
5<10	0-3	.1	.1	.1	.0	.0	.0	.0	.1	.0	.0	.4	1.0
	4-10	1.3	.4	.6	.3	.4	1.1	.3	.7	.0	.0	.0	3.8
	11-21	3.4	.3	.2	.3	.3	.7	1.1	1.3	.0	.0	.0	8.1
	22+	1.7	.4	.1	.0	.0	.8	.8	.6	.0	.0	.0	3.2
	TOT %	6.6	1.3	1.1	.8	1.8	2.6	2.6	2.7	.0	.0	.4	20.1
10+	0-3	.2	.4	.0	.0	.0	.6	.4	.2	.0	3.0	.0	5.0
	4-10	4.7	2.8	1.0	.9	3.7	3.9	3.3	4.0	.0	.0	.0	24.1
	11-21	7.2	2.7	1.1	.5	3.0	6.4	4.8	6.3	.0	.0	.0	31.8
	22+	2.2	.2	.0	.2	2.1	4.3	4.3	.8	.0	.0	.0	14.2
	TOT %	14.4	3.9	2.1	1.6	8.8	13.1	12.9	11.9	.0	.0	3.0	73.0
TOT OBS													727
TOT PCT		22.3	8.1	3.6	2.6	10.8	18.4	16.0	14.6	.0	3.6	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1907-1975
(OVER-ALL) 1871-1975

AREA 0014 RAMSON
43.85 61.14

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6800	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000Z	1.3	.0	1.3	1.3	11.2	11.2	2.0	.0	3.9	.7	32.9	67.1	152
0600Z	.9	.0	.0	.0	10.4	7.8	1.7	.0	.0	.0	20.9	79.1	115
1201Z	1.2	.0	.0	1.2	9.6	10.8	.0	.0	1.2	.6	25.3	74.7	166
1802Z	.0	.0	.0	.0	10.7	6.5	3.0	1.2	2.4	.6	24.3	75.7	169
TOT	3	0	2	4	63	35	11	2	12	3	137	445	602
PCT	.8	.0	.3	.7	10.5	9.1	1.8	.3	2.0	.5	26.1	79.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1.2	2-5	5-10	10+	TOTAL OBS
0000Z	1.1	.0	.0	71.5	19.7	67.8	163
0600Z	.0	.6	.0	1.8	33.7	63.8	163
1201Z	1.5	.0	.0	1.5	16.3	40.6	196
1802Z	.0	.3	.0	1.0	13.5	84.9	192
TOT	3	2	0	29	149	349	734
PCT	.7	.3	.0	4.0	20.3	74.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000Z	1.3	2.6	13.2	26.5	58.3	151
0600Z	.9	.9	3.6	16.2	76.2	110
1201Z	1.2	1.2	3.7	22.6	73.8	164
1802Z	.0	.0	1.2	23.8	75.0	168
TOT	3	7	35	137	421	593
PCT	.8	1.2	5.9	23.1	71.0	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	.0	.0	.6	.6	.0	.0	2	1.3
65/69	.0	.0	.0	.0	3.2	6.3	5.7	2.3	28	17.7
60/64	.0	.0	1.3	3.8	9.1	10.1	13.3	8.2	68	41.8
55/59	.0	.0	1.9	5.8	9.5	10.1	9.7	4.9	49	31.0
50/54	.0	.0	.6	1.9	2.5	2.5	1.3	1.3	13	8.2
TOTAL	0	0	2	10	22	46	30	28	158	100.0
PCT	.0	.0	1.3	6.3	13.9	29.1	31.6	17.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
65/69	3.3	.6	.0	.3	2.1	.8	1.9	6.3	.0	.0
60/64	8.9	2.2	.0	2.1	2.4	6.6	8.3	11.1	.0	.0
55/59	6.3	1.6	1.9	.0	3.8	11.1	2.8	3.3	.0	.0
50/54	.9	.2	.9	.3	1.9	1.6	1.3	1.1	.0	.0
TOTAL	22.0	4.6	2.8	2.7	10.1	20.1	14.6	23.1	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	78	73	68	59	51	49	47	59.4	320
0600Z	70	69	67	59	51	49	47	59.3	358
1201Z	75	71	69	61	55	49	47	60.8	658
1802Z	81	79	73	63	55	50	49	63.1	342
TOT	81	75	70	60	52	49	47	60.3	1878

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.7	10.0	10.0	27.3	30.0	22.3	80	40		
0600Z	.0	0.3	12.8	23.8	29.8	29.0	81	31		
1201Z	.0	0.3	10.4	33.4	33.3	12.3	78	48		
1802Z	.0	4.3	20.3	31.8	34.1	9.1	76	44		
TOT	0	12	22	50	51	28	78	163		

PERIOD: (PRIMARY) 1907-1975
(OVER-ALL) 1871-1975

FEBRUARY

AREA 0014 RANSON
43.85 61.1W

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	49 32	53 36	57 40	61 44	65 48	69 52	73 56	77 60	81 64	TOT	W FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.1	.1	.0	2	.0	.2
14/16	.0	.0	.0	.0	.0	.0	.4	.4	.0	6	.0	.6
11/13	.0	.0	.0	.0	.1	.1	1.2	.1	.0	11	.0	1.0
9/10	.0	.0	.0	.0	.1	1.2	1.6	.1	.0	21	.1	2.9
7/8	.0	.0	.1	.9	.9	2.5	.9	.0	.0	36	.1	5.1
5	.0	.0	.0	.0	1.8	2.1	.0	.1	.0	27	.0	4.0
4	.0	.4	.7	.7	3.1	2.3	.0	.0	.0	44	.4	9.0
3	.0	.3	1.0	1.9	3.7	1.2	.0	.0	.0	49	.4	9.7
2	.0	.1	1.2	2.2	3.2	.9	.0	.0	.0	52	.4	7.2
1	.0	.1	.9	3.7	3.8	.1	.0	.0	.0	77	.3	11.0
0	.2	.4	1.0	3.8	2.2	.0	.0	.0	.0	96	.1	8.1
-1	.1	1.0	2.1	2.3	.7	.0	.0	.0	.0	72	.3	10.3
-2	.1	.8	2.3	4.4	.0	.0	.0	.0	.0	44	.0	6.3
-3	.0	.8	1.9	.9	.1	.0	.0	.0	.0	31	.0	7.3
-4	.0	.1	1.3	1.8	.0	.0	.0	.0	.0	24	.0	3.3
-5	.0	1.0	1.2	.7	.0	.0	.0	.0	.0	23	.0	2.4
-6	.0	.3	.1	.1	.0	.0	.0	.0	.0	20	.0	2.9
-7-8	.1	.9	.1	.0	.0	.0	.0	.0	.0	4	.0	.6
-9-10	.0	.4	.4	.0	.0	.0	.0	.0	.0	8	.0	1.2
-11-13	.1	.3	.0	.0	.0	.0	.0	.0	.0	10	.0	1.3
TOTAL	16	32	110	224	171	71	4.3	7	1	881	2.9	97.7
PCT	2.3	7.6	16.2	32.9	29.1	10.4	4.3	1.0	.1	100.0	2.9	97.7

PERIOD: (OVER-ALL) 1903-1975

TABLE 18

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

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
41	.2	1.1	.0	.0	.0	.0	1.3	.5	.0	.0	.0	.0	.0	1.0
1-2	.0	3.1	.9	.0	.0	.0	4.1	.0	1.7	.1	.0	.0	.0	1.7
3-4	.0	1.7	2.8	.0	.0	.0	4.1	.0	.7	1.7	.0	.0	.0	2.3
5-6	.0	.8	2.6	.2	.0	.0	3.1	.0	.0	1.8	.3	.0	.0	1.9
7	.0	.0	3.7	.9	.0	.0	6.3	.0	.0	.5	.3	.0	.0	.7
1-9	.0	.0	.5	1.2	.0	.0	1.8	.0	.0	.5	.2	.0	.0	.2
11-21	.0	.0	.0	1.4	.0	.0	2.3	.0	.0	.2	.0	.0	.0	.2
1	.0	.0	.0	.5	.0	.0	.3	.0	.0	.0	.0	.0	.0	.2
13-16	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	6.2	11.0	4.9	.0	.0	22.3	.5	2.9	3.9	1.2	.0	.0	8.5

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
41	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2
1-2	.0	.7	.0	.0	.0	.0	1.1	.0	.5	.0	.0	.0	.0	.7
3-4	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3
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	.9	1.3	.0	.0	.0	2.2	.0	.7	.6	.3	.1	.0	1.7

PERIOD: (OVER-ALL) 1963-1975

FEBRUARY

AREA 0014 RANSON
43.35 61.1W

TABLE 18 (CONT)

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

HGT	S						PCT	SH						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.4	.0	.0	.0	.0	.4	.7	.4	.0	.0	.0	.0	.0
1-2	.0	.9	.0	.0	.0	.0	.9	.2	2.0	.9	.0	.0	.0	1.3
3-4	.0	1.0	.6	.0	.0	.0	1.3	.0	1.1	1.9	.0	.0	.0	3.0
5-6	.0	.2	1.0	.8	.0	.0	2.1	.0	.7	2.7	.8	.0	.0	3.0
7	.0	.2	.9	1.0	.0	.0	2.0	.0	.1	1.0	.4	.0	.0	4.2
8-9	.0	.0	1.2	.4	.0	.0	1.6	.0	.0	.2	2.3	.0	.0	1.5
10-11	.0	.2	.0	.3	.0	.0	1.7	.0	.0	.8	1.1	.0	.0	3.0
12	.0	.0	.0	.2	.2	.0	.4	.0	.0	.2	.0	.0	.0	1.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	.0	2.8	3.7	3.9	.2	.0	10.5	1.0	4.4	7.4	3.8	.2	.0	18.8

HGT	S						PCT	SH						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.2	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
1-2	.2	1.2	.6	.0	.0	.0	2.0	.0	2.8	1.3	.0	.0	.0	3.8	
3-4	.0	.7	1.1	.2	.0	.0	2.0	.0	.8	2.2	.0	.0	.0	2.8	
5-6	.0	.0	1.9	.8	.0	.0	2.7	.0	.3	1.9	.0	.0	.0	2.3	
7	.0	.0	2.1	.5	.0	.0	2.6	.0	.0	2.8	.3	.0	.0	3.1	
8-9	.7	.0	1.0	1.4	.0	.0	2.8	.0	.0	.7	.9	.0	.0	1.3	
10-11	.4	.0	.9	2.3	.2	.0	3.0	.0	.0	.0	.3	.0	.0	.3	
12	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	2.1	7.2	6.8	.2	.0	18.8	.0	3.3	8.8	1.8	.0	.0	14.1	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	0.9	3.2	.0	.0	.0	.0	10.1	
1-2	.3	12.6	4.3	.0	.0	.0	17.4	
3-4	.0	9.7	10.3	.2	.0	.0	16.2	
5-6	.0	1.6	12.1	3.2	.0	.0	16.9	
7	.0	.2	11.0	3.4	.0	.0	14.6	
8-9	.0	.0	4.1	6.6	.0	.0	10.8	
10-11	.0	.2	1.8	6.6	.2	.0	8.9	
12	.0	.0	.0	2.9	.2	.0	2.7	
13-16	.0	.0	.0	1.8	.0	.0	1.8	
17-19	.0	.0	.0	.2	.0	.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	7.2	23.6	43.7	24.7	.7	.0	100.0	437

PERIOD: (OVER-ALL) 1951-1975

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	
<1	.4	7.3	12.8	8.4	3.4	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	189	4
1-2	.0	1.3	3.2	4.7	8.1	7.1	3.8	1.9	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	173	7
3-4	.0	.0	1.7	2.1	1.3	1.3	.6	.6	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	7
5-6	.0	.0	.0	.2	.8	.2	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	11
7	.0	.0	.4	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
8-9	.0	.0	.0	.2	.6	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8
10-11	2.4	2.6	3.4	3.8	3.2	1.3	1.3	.2	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	101	5
12-19	13	60	114	104	103	58	48	13	9	3	1	0	0	1	0	0	0	0	0	.0	333	5
TOT PCT	2.6	11.3	21.4	19.3	19.7	10.9	9.0	2.8	1.7	.6	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	100.0	6

MARCH

PERIOD: (PRIMARY) 1908-1971
(OVER-ALL) 1855-1971

AREA 0014 RAMSON
43.55 60.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	.0	3.5	.0	91.7
NE	.0	3.0	2.5	.0	.0	.0	.0	7.5	2.5	.0	3.1	.0	3.1	.0	83.6
E	13.8	.0	.0	.0	.0	.0	.0	13.8	.0	6.3	18.8	.0	.0	.0	59.4
SE	15.5	.0	.0	.0	.0	.0	.0	15.5	4.1	2.1	8.2	.0	.0	.0	70.1
S	1.3	.0	3.4	.0	.0	.0	.0	4.7	3.4	.9	5.6	1.7	.0	.0	83.8
SW	.0	3.8	1.3	.0	.0	.0	.0	3.1	2.6	2.6	2.2	.0	.0	.0	87.3
W	3.8	.0	.0	.0	.0	.0	.0	3.8	.0	.0	1.8	.0	3.2	.0	81.4
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	.0	.9	.0	94.6
VAP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALP	.0	.0	3.6	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	94.4
TOT PCT	2.0	1.1	1.1	.0	.0	.0	.0	4.2	1.3	.9	4.4	.2	1.6	.0	87.4
TOT OBS:	491														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
00103	2.5	.0	.6	.0	.0	.0	.0	3.4	.0	3.4	3.0	.0	.8	.0	87.4
06109	2.8	1.9	1.9	.0	.0	.0	.0	6.3	1.9	.9	3.6	.0	.0	.0	83.2
12113	2.7	1.8	.0	.0	.0	.0	.0	4.3	.9	.0	3.8	.0	3.8	.0	87.5
18121	.0	.6	1.6	.0	.0	.0	.0	2.4	2.4	.0	3.2	.8	2.4	.0	88.8
TOT PCT	1.9	1.1	1.1	.0	.0	.0	.0	4.1	1.3	1.1	4.3	.2	1.7	.0	87.3
TOT OBS:	484														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT PREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	1.6	6.9	8.2	3.7	.1	.0	19.6	13.1	19.5	20.8	23.8	22.1	19.2	17.6	18.3	18.0	
NE	1.0	3.3	2.7	.5	.1	.0	8.1	10.2	8.6	11.0	10.7	7.9	5.9	7.3	5.7	8.7	
E	.6	1.8	1.0	.2	.0	.0	3.3	9.8	3.6	3.4	1.1	4.6	2.6	2.6	3.4	3.9	
SE	.9	2.8	2.7	.4	.1	.0	6.4	11.3	3.8	3.1	4.3	3.0	6.8	.6	2.1	9.9	
S	1.1	3.8	4.1	1.8	.4	.1	11.2	14.3	12.1	7.7	11.0	10.3	12.8	11.8	13.8	10.9	
SW	1.2	4.4	3.9	3.1	1.0	.2	13.8	18.3	14.3	15.4	22.3	12.6	16.0	18.8	17.9	16.4	
W	1.4	4.8	8.1	2.0	.6	.1	13.0	14.4	13.7	12.1	3.4	12.3	14.9	20.0	22.9	14.9	
NW	1.3	4.2	7.7	2.4	.3	.0	16.7	14.0	17.4	20.3	13.2	20.8	18.1	14.3	10.3	13.4	
VAP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALP	3.7	.0	.0	.0	.0	.0	3.7	.0	4.8	2.2	3.4	4.2	3.6	2.3	5.3	4.3	
TOT OBS	230	614	710	280	49	8	1861	13.2	311	231	89	239	303	347	109	232	
TOT PCT	12.4	32.0	38.2	13.4	2.6	.4	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT PREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				03	06	09	12	18
N	4.4	8.3	5.9	.8	.0	19.6	13.1	20.1	23.1	18.3	18.1
NE	3.0	3.3	1.4	.2	.0	8.1	10.2	9.6	8.7	6.7	7.8
E	1.4	1.6	.5	.1	.0	3.3	9.8	4.4	3.7	2.6	3.7
SE	1.9	3.0	1.3	.0	.0	6.4	11.3	3.9	4.9	7.3	7.4
S	2.3	4.2	3.3	1.1	.1	11.2	14.3	10.2	10.6	12.1	11.6
SW	3.0	3.3	3.0	1.6	.7	13.8	18.3	14.8	13.2	16.4	16.9
W	3.3	3.7	4.3	1.0	.4	13.0	14.4	13.1	10.6	17.6	17.4
NW	3.4	6.6	3.8	.7	.1	16.7	14.0	18.7	19.3	16.1	12.4
VAP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALP	3.7	.0	.0	.0	.0	3.7	.0	3.7	4.0	2.9	4.7
TOT OBS	498	720	513	104	28	1861	13.2	342	328	630	341
TOT PCT	26.8	38.7	27.6	5.6	1.4	100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1908-1971
(OVER-ALL) 1855-1971

APEA 0014 RAWSON
43.55 60.74

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					40+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
0000	3.7	10.5	33.8	37.6	12.0	2.2	.2	12.5	100.0	342
0600	4.0	15.1	29.3	40.9	12.3	3.0	.3	13.4	100.0	328
1200	2.9	7.4	34.8	34.8	16.6	2.6	.9	13.8	100.0	650
1800	4.7	7.0	32.0	42.8	10.6	2.9	.0	13.0	100.0	341
TOT	68	102	614	710	250	49	8	13.2		1861
PCT	3.7	8.7	33.0	38.2	13.4	2.6	.4	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	4.6	.7	.3	2.0		2.9
E	.4	.0	1.0	.6		3.3
SE	1.0	.2	.7	1.8		3.1
S	3.0	3.2	4.7	3.7		3.0
SW	5.7	7.9	4.3	2.4		3.8
W	9.3	3.8	1.4	.7		1.9
NW	9.1	2.9	.8	.4		1.6
VAR	.0	.0	.0	.0		.0
CALM	2.2	1.1	.7	.7	276	3.3
TOT OBS	126	62	46	39		3.2
TOT PCT	49.7	22.9	17.8	14.1	100.0	

TABLE 6

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

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
.8	.0	.0	.0	.6	1.7	.7	.2	.6	.4	14.6	
.1	.0	.0	.4	.8	.1	.0	.0	.0	.0	6.3	
.0	.0	.0	.4	.6	.0	.0	.0	.0	.0	1.0	
.4	.0	.0	.5	.4	.0	.4	.0	.0	.0	1.9	
.5	.0	.0	.9	2.4	3.3	.4	.0	.0	.0	7.2	
.5	.0	.0	.8	.3	3.3	1.1	.2	.0	.1	13.3	
.0	.0	.0	.0	.0	.3	.7	.2	.0	.3	13.7	
.2	.0	.0	.0	.1	.1	.0	.2	.1	.0	12.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	4.0	
.7	.0	.0	.9	1.6	2.4	.9	.2	.2	.2	20.9	276
2.5	.0	.0	3.3	5.8	8.7	3.3	.7	.7	.7	74.3	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50VD	>0
>6500	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>5000	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
>3500	3.7	6.0	6.7	6.0	6.0	6.0	6.0	6.0
>2000	11.3	14.1	14.5	14.5	14.5	14.5	14.5	14.5
>1000	18.6	20.1	20.5	20.5	20.5	20.5	20.5	20.5
>600	19.4	23.3	23.7	23.7	23.7	23.7	23.7	23.7
>300	19.4	23.3	23.7	23.7	23.7	23.7	23.7	23.7
>150	19.4	23.3	23.7	23.7	23.7	23.7	23.7	23.7
>0	19.4	23.7	24.0	24.7	24.7	25.1	25.8	26.1
TOTAL	55	67	68	70	70	71	73	74

TOTAL NUMBER OF OBS: 283

PCT FREQ NM <5/8: 73.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
38.8	6.9	7.2	9.2	8.2	3.0	7.6	4.6	12.5	2.0	306

PERIOD: (PRIMARY) 1968-1971
(OVER-ALL) 1955-1971

MARCH

AREA 0014 RAMSON
43.55 60.74

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.3	.3	.0	.0	.0	.2	.0	.1	.0	.0	1.1	1.1
	TOT S	.3	.3	.0	.0	.0	.2	.0	.1	.0	.0	.0	1.1
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.2	.1	.1	.0	.0	.2	.0	.0	.0	.7
	TOT S	.0	.0	.2	.1	.1	.0	.0	.2	.0	.0	.0	.7
1/42	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.6	.1	.0	.2	.3	.8	.0	.0	.0	.0	.0	1.8
	TOT S	.6	.1	.0	.2	.3	.8	.0	.0	.0	.0	.0	1.8
2/5	PCP	.0	.0	.2	.2	.0	.2	.0	.0	.0	.0	.0	.7
	NO PCP	1.7	.4	.1	.1	.7	.4	.8	.4	.0	.0	4.5	4.5
	TOT S	1.7	.4	.3	.3	.7	.6	.8	.4	.0	.0	.0	5.1
3/10	PCP	.0	.2	.2	.5	.2	.2	.0	.0	.0	.2	1.1	1.1
	NO PCP	7.3	1.8	.7	1.1	1.8	3.3	1.0	2.3	.0	1.1	20.0	20.0
	TOT S	7.3	2.0	.9	1.6	2.0	3.5	1.0	2.3	.0	1.3	21.1	21.1
10+	PCP	.0	.4	.1	.1	.4	.4	.4	.0	.0	.0	2.0	2.0
	NO PCP	13.4	3.7	2.0	2.9	9.1	12.0	10.3	9.1	.0	2.7	67.9	67.9
	TOT S	13.4	4.1	2.1	3.0	9.5	12.4	10.7	9.1	.0	2.7	69.9	69.9
TOT OBS													449
TOT PCT		23.4	8.9	3.6	3.3	12.7	17.4	12.3	12.4	.0	4.0	100.0	

TABLE 9

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

VSBY (MM)	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	.0
	4-10	.2	.1	.0	.0	.0	.2	.0	.1	.0	.0	.0	.6
	11-21	.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.8	1.0	.0	.0	.0	.2	.0	.1	.0	.0	.0	2.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.4
	11-21	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.4
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.2	.0	.2	.1	.1	.0	.0	.2	.0	.0	.0	.8
1/42	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.0	.0	.2	.1	.4	.0	.0	.0	.0	.0	.9
	11-21	.1	.1	.0	.1	.1	.8	.0	.0	.0	.0	.0	.4
	22+	.4	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.6
	TOT S	.7	.1	.1	.3	.3	.8	.0	.0	.0	.0	.0	1.9
2/5	0-3	.0	.1	.1	.1	.0	.0	.0	.1	.0	.0	.0	.6
	4-10	1.2	.3	.2	.2	.3	.3	.4	.2	.0	.0	.0	3.0
	11-21	.3	.1	.0	.0	.1	.2	.2	.2	.0	.0	.0	1.3
	22+	.0	.2	.2	.0	.3	.2	.2	.0	.0	.0	.0	1.2
	TOT S	1.9	.7	.3	.3	.9	.8	.8	.3	.0	.0	.0	6.2
3/10	0-3	.2	.2	.0	.0	.0	.1	.1	.2	.0	1.3	3.1	3.1
	4-10	2.4	.8	.3	.3	1.9	.6	.7	.4	.0	.0	.0	7.2
	11-21	1.8	.6	.0	.9	1.4	2.6	.4	1.9	.0	.0	.0	9.6
	22+	1.8	.1	.0	.0	.2	.6	.2	.1	.0	.0	.0	3.0
	TOT S	6.3	1.6	.3	1.4	2.6	3.8	1.3	2.6	.0	1.3	.0	21.6
10+	0-3	.4	.7	.3	.0	.6	.6	.3	.0	.0	2.4	5.3	5.3
	4-10	2.8	3.0	.4	1.8	3.3	2.4	2.7	2.8	.0	.0	.0	19.0
	11-21	8.9	1.0	1.0	1.3	4.8	7.5	7.2	4.8	.0	.0	.0	33.2
	22+	1.3	.9	.1	.1	2.4	2.3	.9	.4	.0	.0	.0	7.7
	TOT S	11.4	5.6	1.9	3.2	10.2	12.8	11.4	8.4	.0	2.4	.0	67.2
TOT OBS													331
TOT PCT		21.2	8.9	3.5	5.2	14.1	18.0	13.8	11.7	.0	3.8	100.0	

MARCH

PERIOD: (PRIMARY) 1908-1971
(OVER-ALL) 1955-1971

AREA 0014 RAWSON
43.55 60.7W

TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8	TOTAL
(GMT)	149	299	599	999	1999	3499	4999	6499	7999			ANY HGT	OBS
0000	5.4	.0	.0	3.6	10.7	3.6	5.4	3.6	.0	.0	32.1	67.9	56
0600	1.7	.0	.0	1.7	5.1	8.3	.0	.0	.0	.0	16.9	83.1	39
1200	.0	.0	.0	5.2	5.2	10.4	3.9	1.3	.0	.0	26.0	74.0	77
1800	3.1	.0	.0	2.1	3.2	9.3	3.1	1.0	2.1	2.1	27.8	72.2	97
TOT	7	0	0	9	18	24	9	4	2	2	75	214	289
PCT	2.4	.0	.0	3.1	6.2	8.3	3.1	1.4	.7	.7	26.0	74.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL
(GMT)							OBS
0000	2.1	.0	9.3	7.1	32.6	34.6	141
0600	1.7	.8	1.7	7.6	26.9	61.3	119
1200	1.4	2.1	3.2	5.6	19.3	72.9	144
1800	2.9	.0	.0	4.3	12.9	80.0	140
TOT	11	4	11	33	118	367	544
PCT	2.0	.7	2.0	6.1	21.7	67.5	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NM <5/8	TOTAL
(GMT)	<3000	<1	<5	AND 5+	AND 5+	OBS
0000	5.3	5.3	12.7	21.8	65.3	56
0600	1.7	1.7	6.6	12.1	79.3	39
1200	.0	.0	6.7	21.3	72.0	77
1800	3.2	3.2	5.3	23.2	71.6	97
TOT	7	7	22	37	204	289
PCT	2.5	2.5	7.8	20.1	72.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
80/84	.0	.4	.0	.0	.0	.0	.0	.0	1	.4
75/79	.0	.0	.0	.7	.0	.0	.0	.0	2	1.7
70/74	.0	.0	.0	.7	1.1	.0	.0	.0	3	1.8
65/69	.0	.0	.0	1.1	2.2	1.4	1.4	.4	18	6.5
60/64	.0	.8	.7	.7	2.3	7.6	10.1	6.8	79	28.4
55/59	.0	.0	.0	.4	4.0	6.1	23.4	10.4	123	44.2
50/54	.0	.0	.0	.0	1.4	3.2	7.2	3.0	47	16.9
45/49	.0	.0	.0	.0	.7	.0	.0	.4	3	1.1
TOTAL	0	1	2	10	33	31	117	64	278	100.0
PCT	.0	.4	.7	3.6	11.9	16.3	42.1	23.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0
75/79	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0
70/74	.4	.3	.2	.0	.0	.4	.0	.4	.0	.0
65/69	.9	2.0	.4	.4	.0	1.3	.3	1.1	.0	.0
60/64	11.0	1.7	1.2	.5	.4	1.3	6.1	5.6	.0	.7
55/59	10.3	3.8	1.8	4.8	6.4	6.7	3.0	3.3	.0	1.8
50/54	2.7	1.6	1.3	1.4	4.3	3.3	.6	.3	.0	1.1
45/49	.0	.0	.0	.3	.8	.0	.0	.0	.0	.0
TOTAL	25.4	9.6	4.8	7.4	11.9	13.3	11.0	13.0	.0	3.6

TABLE 15

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

HR	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
0000	73	67	64	57	50	49	49	57.2	323
0600	67	65	63	57	50	49	47	57.1	323
1200	80	72	67	59	52	49	44	59.2	398
1800	79	73	69	60	52	50	50	60.0	311
TOT	80	70	66	58	51	49	44	58.4	1757

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL
(GMT)									OBS
0000	.0	1.2	15.3	13.1	44.0	26.2	83	84	
0600	.0	5.0	3.3	23.0	33.0	31.7	83	60	
1200	.0	7.7	16.7	19.2	38.5	17.9	79	78	
1800	.0	7.3	14.9	14.9	46.3	16.4	80	67	
TOT	0	15	38	51	119	66	61	289	

PERIOD: (PRIMARY) 1968-1971
(OVER-ALL) 1855-1971

MARCH

AREA 0014 RAMSON
43.85 60.7M

TABLE 17

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

AIR-SEA TMP DIF	49 57	53 58	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
11/13	.0	.0	.0	.0	.0	.2	.5	.0	3	.0	.7
9/10	.0	.0	.2	.2	.0	.2	.0	.0	3	.2	.5
7/8	.0	.0	.2	.7	1.4	.7	.0	.0	13	.0	3.1
6	.0	.0	.5	.7	.7	.2	.0	.0	9	.2	1.9
5	.2	.5	.5	.9	.9	.5	.0	.0	15	.2	3.3
4	.2	.9	.2	2.6	.7	.0	.0	.0	20	.0	4.7
3	.0	.5	.9	3.1	.7	.0	.0	.0	22	.5	4.7
2	.0	2.4	2.8	5.0	.9	.0	.0	.0	47	.7	10.4
1	.5	1.7	3.5	3.2	1.9	.0	.0	.0	48	.9	10.4
0	.2	1.7	3.5	4.0	.9	.0	.0	.0	43	.7	9.5
-1	.5	1.9	2.6	3.3	.0	.0	.0	.0	35	.5	7.8
-2	.0	3.1	3.5	2.4	.0	.0	.0	.0	38	.0	9.0
-3	.0	3.4	4.5	2.4	.0	.0	.0	.0	39	.0	9.2
-4	.0	1.2	4.0	.9	.2	.0	.0	.0	27	.2	6.1
-5	.2	1.7	1.9	.2	.0	.0	.0	.0	17	.5	3.5
-6	.9	2.1	2.1	.0	.0	.0	.0	.0	20	.0	4.7
-7/-8	1.2	2.1	.2	.0	.0	.0	.0	.0	15	.0	3.5
-9/-10	.7	.5	.5	.0	.0	.0	.0	.0	7	.0	1.7
-11/-13	.0	.2	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	18	96	134	128	36	8	2	1	423	20	403
PCT	4.3	22.7	31.7	30.3	8.3	1.9	.5	.2	100.0	4.7	95.3

PERIOD: (OVER-ALL) 1968-1971

TABLE 18

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

MGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	.4	.0	.0	.0	.0	.4	.0	.1	.0	.0	.0	.0	.1
1-2	.0	1.6	2.7	.0	.0	.0	4.3	.0	1.6	.3	.0	.0	.0	1.8
3-4	.0	.4	3.5	.5	.0	.0	4.5	.0	1.0	2.1	.0	.0	.0	3.1
5-6	.0	.0	2.7	1.0	.0	.0	3.8	.0	.0	.1	.1	.0	.0	.3
7	.0	.0	6.7	1.8	.0	.0	8.5	.0	.0	1.3	.3	.0	.0	1.6
8-9	.0	.0	.5	.9	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	16.2	4.3	.0	.0	22.9	.0	2.7	3.8	.4	.0	.0	6.9

MGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.0	.4	.0	.0	.0	.4	.0	.1	.5	.0	.0	.0	.7
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.0	.0	.0	1.0
5-6	.0	.0	.3	.4	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	.9	.4	.0	.0	1.3	.0	1.2	1.2	.0	.0	.0	2.4

PERIOD: (OVER-ALL) 1963-1971

MARCH

AREA 0014 RAMSDN
43.55 60.74

TABLE 18 (CONT)

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

HGT	SM						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.3	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	1.4
3-4	.0	.9	1.8	.0	.0	.0	2.5	.0	2.7	1.6	.0	.0	.0	.0	4.3
5-6	.0	.0	4.4	.0	.0	.0	4.4	.0	.0	4.3	.0	.0	.0	.0	4.3
7	.0	.0	4.8	2.1	.0	.0	6.9	.0	.0	3.8	1.3	.0	.0	.0	5.1
8-9	.0	.0	.2	.9	.0	.0	1.3	.0	.0	2.7	1.2	.0	.0	.0	3.9
10-11	.0	.0	.4	.0	.0	.0	.4	.0	.0	.7	.3	.0	.0	.0	1.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.2	7.6	3.0	.0	.0	14.8	.1	3.0	14.3	3.0	.0	.0	.0	20.4

HGT	SM						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.2	.4	.0	.0	.0	2.9	.0	.1	.8	.0	.0	.0	.0	.9
3-4	.0	.3	1.8	.0	.0	.0	2.4	.0	.7	2.3	.3	.0	.0	.0	2.7
5-6	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	2.9	.0	.0	.0	.0	2.9
7	.0	.0	3.8	1.3	.0	.0	5.1	.0	.0	2.0	.3	.0	.0	.0	2.3
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	1.0	.1	.0	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.0	8.6	1.3	.0	.0	13.4	.0	.8	9.2	1.2	.0	.0	.0	11.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	9.2	1.0	.0	.0	.0	.0	10.2	
1-2	.0	9.2	6.1	.0	.0	.0	15.3	
3-4	.0	.9	13.3	1.0	.0	.0	21.4	
5-6	.0	.0	12.8	1.3	.0	.0	14.3	
7	.0	.0	21.9	7.1	.0	.0	29.1	
8-9	.0	.0	3.1	3.1	.0	.0	6.2	
10-11	.0	.0	1.0	.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	9.7	16.8	60.1	13.3	.0	.0	100.0	196

PERIOD: (OVER-ALL) 1960-1971

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.4	9.9	15.4	8.3	8.3	1.1	.4	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	4
6-7	.0	1.1	3.7	9.2	13.4	4.8	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	6
8-9	.0	.0	.7	1.3	4.0	1.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	7
10-11	.0	.4	1.1	.7	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	3
12-13	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	2	7
>13	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	9
INDET	3.3	.4	1.8	1.3	.4	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	3
TOTAL	10	32	63	38	73	24	7	1	1	1	0	0	0	0	0	0	0	0	0	0	272	3
PCT	3.7	11.8	23.2	21.3	27.6	8.8	2.6	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	5

PERIOD: (PRIMARY) 1905-1976
(OVER-ALL) 1869-1976

APRIL

AREA 0014 RAWSON
43.75 60.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.3	.0	2.3	.0	.0	.0	.0	4.6	.0	.0	6.9	.0	1.7	.0	86.8
NE	.0	.0	7.0	.0	.0	.0	.0	7.0	.0	.0	7.0	.0	7.0	.0	78.9
E	8.9	.0	8.9	.0	.0	.0	.0	17.8	.0	.0	4.4	.0	.0	.0	77.8
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	3.3	6.6	3.3	.0	.0	.0	.0	13.2	3.3	1.7	1.7	.0	.0	.0	80.2
SW	2.5	2.5	2.5	.0	.0	.0	2.5	10.1	.0	2.5	4.3	.0	.0	.0	81.1
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	2.2	.0	.0	.0	98.7
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.2	.0	.7	.0	90.2
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	100.0	.0	.0	.0	.0
TOT PCT	1.7	1.3	2.2	.0	.0	.0	.4	9.7	.4	.9	5.7	.0	.9	.0	86.9
TOT OBS:	230														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	.0	2.8	.0	.0	.0	.0	.0	2.8	.0	.0	9.9	.0	2.8	.0	84.3
0600	1.9	.0	3.7	.0	.0	.0	1.9	7.4	.0	3.7	3.6	.0	.0	.0	83.3
1200	.0	1.8	3.6	.0	.0	.0	.0	3.6	1.8	.0	14.3	.0	.0	.0	78.2
1800	4.8	.0	1.6	.0	.0	.0	.0	6.3	.0	.0	4.8	.0	.0	.0	88.9
TOT PCT	1.6	1.2	2.1	.0	.0	.0	.4	9.3	.4	.8	8.6	.0	.8	.0	84.0
TOT OBS:	243														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.6	4.2	2.2	1.6	.1	.1	9.9	13.3	11.0	10.1	11.9	8.2	8.0	9.8	15.4	9.9	
NE	.7	1.6	1.9	.2	.0	.0	4.4	10.7	6.6	3.6	2.8	2.3	3.9	4.6	7.7	4.0	
E	.8	2.4	1.3	.5	.1	.0	3.1	10.9	4.0	5.1	6.3	6.0	6.3	3.4	3.8	4.0	
SE	1.0	2.6	2.2	.9	.1	.1	7.4	14.4	7.3	7.1	4.3	10.1	8.0	7.3	.0	7.1	
S	1.6	3.0	3.8	1.3	.6	.4	10.8	18.2	10.9	10.4	18.2	8.2	10.6	10.6	10.6	11.9	
SW	1.6	3.0	3.8	1.3	1.9	.8	18.1	18.6	17.2	18.2	19.3	16.0	17.0	17.3	23.6	21.9	
W	1.8	7.9	9.4	2.7	1.2	.1	22.3	14.3	22.8	18.3	18.2	24.1	21.8	22.6	19.7	23.9	
NW	.8	3.2	10.0	3.7	.8	.1	20.7	16.0	19.7	24.7	14.3	23.7	21.8	20.4	19.2	19.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.4	.0	.0	.0	.0	.0	1.4	.0	.5	2.4	2.3	1.3	2.6	1.3	.0	.0	
TOT OBS	122	401	470	178	86	21	1238	19.0	213	188	44	139	193	263	32	162	
TOT PCT	9.7	31.9	37.4	14.1	5.2	1.7	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40				00	03	06	09	12	15	18	21
N	2.6	4.0	2.7	.8	.1	9.9	13.3	10.6	9.0	9.1	11.2		
NE	1.6	1.8	1.0	.9	.0	4.4	10.7	3.3	2.6	4.3	4.9		
E	2.1	1.9	.8	.3	.0	3.1	10.9	4.4	6.0	3.8	4.0		
SE	2.3	2.3	1.7	.7	.3	7.4	14.4	7.2	8.9	7.8	3.4		
S	3.3	3.4	2.6	.9	.6	10.8	18.2	10.7	10.3	10.6	11.6		
SW	3.7	3.3	4.4	2.9	1.3	18.1	18.6	17.6	16.7	17.3	22.0		
W	4.3	10.2	3.3	2.1	.4	22.3	14.3	20.9	22.8	22.3	24.4		
NW	2.1	9.3	6.6	2.3	.2	20.7	16.0	21.9	22.2	21.0	16.6		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.4	.0	.0	.0	.0	1.4	.0	1.3	1.5	2.0	.0		
TOT OBS	293	487	317	122	39	1238	19.0	283	203	458	214		
TOT PCT	23.3	38.7	25.2	9.7	3.1	100.0		100.0	100.0	100.0	100.0		

APRIL

PERIOD: (PRIMARY) 1905-1976
(OVER-ALL) 1869-1976

APEA 0014 RANSON
43.75 60.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000Z	1.3	7.8	32.6	37.3	13.8	3.9	3.1	15.2	100.0	383
0600Z	1.5	8.9	28.1	39.9	15.8	4.9	1.0	15.1	100.0	209
1201Z	2.0	8.3	34.3	33.0	15.3	6.1	1.1	14.8	100.0	498
1802Z	.0	8.9	29.0	44.4	10.7	6.1	.9	14.8	100.0	214
TOT	17	108	401	470	178	66	21	19.0		1298
PCT	1.4	8.3	31.9	37.4	14.1	5.2	1.7		100.0	

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	1.9	.7	1.9	.7	3.9	3.9
E	2.2	.4	.4	2.2	4.3	4.3
SE	2.4	.0	.1	.0	1.3	1.3
S	3.4	4.9	4.0	.6	3.7	3.7
SW	7.8	2.7	7.6	1.3	3.6	3.6
W	10.0	3.1	7.9	1.6	3.4	3.4
NW	9.3	1.3	3.0	1.9	3.1	3.1
VAR	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.6	8.0	8.0
TOT OBS	71	24	52	20	167	3.7
TOT PCT	42.5	14.0	31.1	12.0	100.0	

TABLE 6

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

WIND DIR	000	100	300	600	1000	2000	3000	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.4	7.2	.6	.6	.0	.0	.0	.0	11.2
NE	.6	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	9.9
E	1.2	.0	.0	.4	.7	.0	.4	.0	.0	.0	.0	3.3
SE	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	2.4
S	.0	.0	.0	.0	2.2	.0	1.5	.0	.0	.0	.0	8.7
SW	1.2	.0	.6	.0	1.3	2.1	1.3	.0	.0	.0	.0	12.9
W	.0	.0	.0	.6	.6	.3	1.2	.0	.0	.0	.6	11.8
NW	.0	.0	.0	.1	1.2	1.2	.6	.0	.0	.0	1.2	19.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	6	0	1	3	13	7	10	0	3	3	3	181
TOT PCT	3.6	.0	.6	1.8	7.8	4.2	6.0	.0	1.8	1.8	72.5	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>8	>6	>4	>3	>2	>1 1/2	>1
>8000	2.9	3.3	3.3	3.3	3.3	3.3	3.3	3.3
>6000	2.9	3.3	3.3	3.3	3.3	3.3	3.3	3.3
>4000	8.8	9.4	9.4	9.4	9.4	9.4	9.4	9.4
>2000	12.4	12.9	13.3	13.3	13.3	13.3	13.3	13.3
>1000	17.6	20.6	21.2	21.2	21.2	21.2	21.2	21.2
>600	19.4	22.4	22.9	22.9	22.9	22.9	22.9	22.9
>300	19.4	22.9	22.9	22.9	22.9	22.9	22.9	22.9
>150	19.4	22.9	22.9	22.9	22.9	22.9	22.9	22.9
>0	19.4	24.1	23.3	23.3	23.3	23.3	23.3	23.3
TOTAL	33	41	43	44	46	46	47	47

TOTAL NUMBER OF OBS: 170

PCT FREQ NH <5/8: 72.6

TABLE 8

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
24.9	21.5	13.0	7.9	4.5	6.2	7.3	6.2	4.5	4.0	177

PERIOD: (PRIMARY) 1905-1976
(OVER-ALL) 1869-1976

APRIL

AREA 0014 RAMSON
43.75 60.8W

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
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4	.9
	TOT %	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4	.9	
1/2<1	PCP	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	.4
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	.4
	TOT %	.0	.0	.0	.0	.0	.4	.0	.4	.0	.0	.8	.8
1<2	PCP	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	.4
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	.4
2<5	PCP	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4
5<10	PCP	.9	.0	.9	.0	.9	.4	.0	.0	.0	.0	.0	3.0
	NO PCP	3.2	1.4	.7	.9	2.0	3.8	4.0	4.0	.0	.0	.0	21.3
	TOT %	4.1	1.4	1.1	.9	2.8	4.0	4.0	4.0	.0	.0	.0	24.3
10+	PCP	.0	.0	.0	.0	.9	.4	.0	.0	.0	.0	.0	1.3
	NO PCP	12.8	4.3	3.8	1.8	9.5	12.0	15.8	11.7	.0	.0	.0	71.7
	TOT %	12.8	4.3	3.8	1.8	10.3	12.4	15.8	11.7	.0	.0	.0	73.0
TOT OBS													230
TOT PCT		18.9	6.2	4.9	2.7	13.2	17.3	19.8	16.6	.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
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	.3
	TOT %	.0	.0	.0	.0	.0	.3	.0	.3	.0	.0	.6	.7
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	.3
	TOT %	.0	.0	.0	.0	.0	.3	.0	.3	.0	.0	.6	.7
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.2	.3	.2	.0	.0	.3	.0	.0	.0	.0	.0	1.0
	4-10	2.3	.7	1.2	.9	.2	1.4	.2	1.9	.0	.0	.0	8.3
	11-21	1.5	.1	.0	1.4	1.7	.9	2.4	1.4	.0	.0	.0	9.4
	22+	1.0	.0	.0	.0	1.0	2.7	.6	.1	.0	.0	.0	5.6
	TOT %	4.9	1.1	1.4	1.9	3.0	5.3	3.4	3.4	.0	.0	.0	24.3
10+	0-3	.3	.3	.3	.0	.0	.3	.0	.0	.0	.0	.0	1.4
	4-10	.9	1.1	2.1	1.8	2.8	3.0	3.2	3.9	.0	.0	.0	24.7
	11-21	1.1	4.3	1.6	.0	4.2	4.9	7.3	8.2	.0	.0	.0	33.8
	22+	.7	.9	.0	.2	2.3	3.5	3.2	.2	.0	.0	.0	10.4
	TOT %	11.1	6.1	4.1	2.0	9.1	11.6	13.9	12.3	.0	.0	.0	72.2
TOT OBS													288
TOT PCT		16.0	6.2	5.8	3.9	12.1	17.6	19.3	16.8	.0	.3	100.0	

APRIL

PERIOD: (PRIMARY) 1903-1976
(OVER-ALL) 1869-1976

AREA 0014 RAMSON
43.75 60.6M

TABLE 10

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

HR (GMT)	000	100	200	300	400	1000	2000	3000	4000	5000	6000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	2.0	.0	2.0	3.0	2.0	3.0	.0	.0	.0	.0	.0	13.7	86.3	51
0600	4.9	.0	.0	.0	7.3	.0	9.8	.0	4.9	2.4	29.3	70.7	41	
1200	5.9	.0	.0	.0	8.8	8.8	11.8	.0	.0	2.9	38.2	61.8	34	
1800	4.1	.0	.0	2.0	12.2	6.1	4.1	.0	2.0	2.0	32.7	67.3	49	
TOT	7	0	1	3	13	8	10	0	3	3	48	127	175	
PCT	4.0	.0	.5	1.7	7.4	4.6	5.7	.0	1.7	1.7	27.4	72.6	100.0	

TABLE 11

PERCENT FREQUENCY VS2Y (NM) BY HOUR

HR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000	.0	1.1	1.1	.0	28.6	69.2	91
0600	1.6	.0	1.6	1.6	28.1	67.2	64
1200	2.7	2.7	.0	1.4	27.4	68.8	73
1800	2.7	.0	.0	2.7	17.8	76.7	73
TOT	3	3	2	4	77	210	301
PCT	1.7	1.0	.7	.3	29.6	69.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS2Y (NM) AND/OR CEILING HGT (FEET, NM >4/3) BY HOUR

HR (GMT)	<150 <300	<600 <1	<1000 <3	1000+ AND 3+	NM <5/2 AND 5+	TOTAL OBS
0000	2.1	4.2	8.3	6.3	85.4	48
0600	4.9	4.9	4.9	24.4	70.7	41
1200	6.1	6.1	9.1	30.3	60.6	34
1800	4.2	4.2	6.3	29.0	68.8	48
TOT	7	8	12	35	183	170
PCT	4.1	4.7	7.1	20.6	72.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.0	.0	.0	.0	1	.5
69/68	.0	.0	.0	.0	.0	.5	.5	.5	3	1.5
68/64	.0	.0	.0	1.5	2.5	5.7	1.5	22	11.3	
59/59	.0	.0	3.1	5.7	7.7	12.4	6.2	68	35.1	
50/54	.0	.0	2.4	3.6	7.8	13.9	6.2	71	36.6	
48/48	.0	.0	.0	1.0	6.7	4.6	1.0	26	13.4	
48/44	.0	.0	.0	.5	.0	.5	.5	3	1.5	
TOTAL	0	0	1	11	23	33	23	31	194	100.0
PCT	.0	.0	.5	5.7	12.9	27.3	37.6	16.0		

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
.5	.5	.0	.0	.0	.0	.0	.5	.0	.0
3.0	1.8	.4	1.0	.4	.0	1.8	2.1	.0	.0
3.8	.5	.4	1.7	1.8	.9	9.8	8.8	.0	.0
6.7	2.8	3.9	.0	7.5	6.3	5.0	4.0	.0	.5
2.8	1.2	.8	.0	3.7	2.6	1.2	1.3	.0	.0
.0	.0	.0	.0	1.0	.5	.0	.0	.0	.0
18.8	6.6	5.3	2.7	14.3	16.6	18.3	16.6	.0	.5

TABLE 15

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

HR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
0000	64	62	60	53	46	43	40	53.3	375
0600	63	61	59	54	48	43	40	53.1	205
1200	68	65	61	55	47	44	41	54.5	443
1800	70	66	64	59	48	46	43	55.6	198
TOT	70	64	61	54	46	44	40	54.1	1221

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	9.7	9.7	30.6	30.6	19.4	79	62		
0600	.0	4.2	20.8	29.2	25.0	20.8	79	48		
1200	.0	4.4	4.4	31.1	40.0	20.0	82	45		
1800	.0	7.8	13.4	21.2	46.2	13.3	80	52		
TOT	0	12	26	58	73	58	80	207		

APRIL

PERIOD: (PRIMARY) 1905-1976
(OVER-ALL) 1869-1976

AREA 0014 RANSON
43.75 60.6W

TABLE 17

PCT FRQ 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	43 48	49 52	53 58	57 60	61 64	65 68	69 72	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.4	.0	.4	2	.0	.9
7/8	.0	.0	.0	.0	.9	1.3	.4	.0	6	.0	2.6
6	.0	.0	.0	.4	.9	2.2	.4	.0	9	.4	3.4
5	.0	.0	.0	1.3	2.2	.9	.0	.0	10	.0	4.3
4	.0	.0	.9	2.8	2.6	1.7	.0	.0	18	.9	6.9
3	.0	.0	1.7	3.9	2.2	.9	.4	.0	21	1.7	7.3
2	.0	.9	2.2	3.8	1.7	1.3	.0	.0	27	1.3	10.3
1	.0	.9	2.2	2.8	2.6	.4	.0	.0	20	.9	7.8
0	.0	.9	3.0	6.0	1.7	.4	.0	.0	28	1.3	10.8
-1	.4	2.2	3.4	6.0	.9	.9	.0	.0	32	1.3	12.3
-2	.4	1.3	.9	3.9	1.3	.0	.0	.0	18	.9	6.9
-3	.0	.0	2.8	1.3	1.3	.0	.0	.0	12	.4	4.7
-4	.0	.0	1.3	.9	.0	.0	.0	.0	3	.0	2.2
-5	.0	.0	.4	.4	.0	.0	.0	.0	2	.0	.9
-6	.4	.0	.9	1.7	.0	.0	.0	.0	7	.0	3.0
-7/-8	.0	.9	1.7	1.3	.0	.0	.0	.0	9	.0	3.9
-9/-10	.4	.4	.9	.4	.0	.0	.0	.0	3	.0	2.2
-11/-13	.0	.4	.0	.0	.0	.0	.0	.0	1	.0	.4
TOTAL	4	18	31	89	42	24	3	1	232	21	211
PCT	1.7	7.8	22.0	38.4	18.1	10.3	1.3	.4	100.0	9.1	90.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

HGT	N						PCT	NE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
01	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.9	1.9	.0	.0	.0	8.3	1.3	.0	.0	.0	.0	.0	.0	1.9
3-4	.0	.0	3.8	.0	.0	.0	3.8	.0	.0	1.3	.0	.0	.0	.0	1.3
5-6	.0	.0	.0	1.3	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	3.4
7	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	1.3	.0	.0	.0	.0	1.3
8-9	.0	.0	1.9	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.9	10.8	3.1	.0	.0	20.8	1.3	.0	6.9	.0	.0	.0	.0	2.3

HGT	E						PCT	SE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
01	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	3.1	.0	.0	.0	3.1	.0	1.3	.0	.0	.0	.0	.0	1.3
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	3.8	.0	.0	.0	3.8	.0	3.1	.0	.0	.0	.0	.0	3.1

PERIOD: (OVER-ALL) 1963-1974

APRIL
TABLE 18 (CONT)

AREA 0014 RAMSDN
43.73 60.6W

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.5	.0	.0	.0	3.1
3-4	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.4	.0	.0	.0	1.4
5-6	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	1.9	.0	.0	.0	1.9
7	.0	1.5	.0	1.9	.0	.0	3.1	.0	.0	1.5	3.1	1.5	.0	6.2
8-9	.0	.0	.0	1.2	.0	.0	1.2	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	1.5	.0	1.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	1.5
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	1.5	2.3	2.7	1.5	.0	6.1	.0	1.5	5.4	5.0	1.5	.0	13.5

HGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	1.4
1-2	.0	1.5	5.8	.0	.0	.0	7.3	.0	6.9	.4	.0	.0	.0	7.3
3-4	.0	1.5	1.5	1.2	.0	.0	4.2	.0	4.6	3.8	.4	.0	.0	8.8
5-6	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	5.0	.0	.0	.0	5.0
7	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	1.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	3.1
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	.0	3.1	8.8	2.7	.0	.0	14.6	.0	13.1	12.3	.4	.0	.0	29.8 100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	1.5	.0	.0	.0	.0	1.5	
1-2	1.5	10.9	10.8	.0	.0	.0	23.2	
3-4	.0	7.7	13.4	1.3	.0	.0	24.4	
5-6	.0	1.3	18.9	3.1	1.5	.0	21.9	
7	.0	1.5	4.6	6.2	1.5	.0	13.8	
8-9	.0	.0	4.6	1.3	1.5	.0	6.2	
10-11	.0	.0	.0	.0	1.5	.0	1.3	
12	.0	.0	.0	1.3	.0	.0	1.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.5	29.2	32.3	13.8	3.1	.0	100.0	65

PERIOD: (OVER-ALL) 1969-1974

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	9.0	19.7	8.2	1.6	1.6	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	4
6-7	.0	.0	1.6	6.6	6.6	1.6	1.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	6
8-9	.0	3.3	.8	.8	.8	3.3	1.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	6
10-11	.0	.0	.8	1.6	.8	1.6	.0	1.6	2.5	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	10
13-15	.0	.0	.8	.0	.0	.0	2.3	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	9
>13	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	3
INDET	1.6	1.6	1.6	.0	1.6	2.3	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	122	6
TOTAL	2	18	30	21	14	17	8	7	4	1	0	0	0	0	0	0	0	0	0	0	122	6
PCT	1.6	14.8	24.6	17.2	11.5	13.9	6.6	5.7	3.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1906-1974
(OVER-ALL) 1869-1974

AREA 0014 RAWSON
43.7S 60.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG 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 UUST	NO SIG WEA
N	.0	1.6	.0	.0	.0	.0	.0	1.6	2.3	3.1	17.2	.0	6.3	.5	69.3
NE	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	30.0	.0	.0	.0	68.3
E	.0	.0	20.0	.0	.0	.0	.0	20.0	.0	.0	60.0	.0	.0	.0	20.0
SE	.0	.0	7.7	.0	.0	.0	.0	7.7	.0	.0	.0	.0	.0	.0	92.3
S	15.1	4.3	.0	.0	.0	.0	.0	19.4	.0	.0	.0	.0	.0	.0	40.6
SW	6.1	4.9	2.4	.0	.0	.0	2.4	15.9	4.9	3.7	11.0	.0	.0	.0	47.1
W	.0	.0	.0	.0	.0	.0	6.8	6.8	.0	1.7	6.8	.0	.0	.0	83.1
NW	.0	1.0	.0	.0	.0	.0	.0	1.0	.0	2.0	12.7	2.0	3.9	.0	78.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.0	2.0	1.0	.0	.0	.0	1.3	7.5	1.5	2.0	12.4	.5	2.0	.0	74.6
TOT OBS:	201														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG 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 UUST	NO SIG WEA
0000	.0	.0	.0	.0	.0	.0	1.8	1.8	1.8	3.3	15.8	1.8	.0	.0	73.4
0600	4.7	2.3	2.3	.0	.0	.0	2.3	11.8	2.3	4.7	7.0	.0	.0	.0	76.7
1200	3.1	.0	1.6	.0	.0	.0	1.6	6.3	.0	.0	15.6	.0	4.7	.0	73.4
1800	4.5	6.8	.0	.0	.0	.0	.0	11.4	2.3	.0	6.8	.0	2.3	.0	77.3
TOT PCT	2.9	1.9	1.0	.0	.0	.0	1.4	7.2	1.4	1.9	12.0	.5	1.9	.0	73.5
TOT OBS:	208														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT PREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.4	3.9	3.9	1.2	.1	.0	10.6	12.1	8.0	11.4	18.1	8.6	12.3	11.3	8.8	10.4
NE	.7	2.4	1.9	.4	.0	.0	3.4	10.1	4.3	4.2	4.3	6.3	6.2	6.3	5.9	4.4
E	.7	1.4	.9	.4	.0	.0	3.4	10.3	3.9	3.4	.0	2.6	2.9	3.3	1.3	4.9
SE	.8	2.9	1.2	.7	.2	.1	3.8	11.7	3.7	3.6	3.4	6.3	5.8	5.9	1.5	3.9
S	1.2	3.9	2.9	1.4	.8	.2	10.3	14.7	10.7	9.1	3.4	9.1	13.3	10.3	15.4	8.7
SW	.6	6.5	3.4	3.8	2.4	.3	19.2	18.2	21.6	17.2	20.7	18.3	17.9	17.7	20.7	21.0
W	.4	7.3	3.1	3.5	1.1	.8	20.7	13.3	18.3	22.3	11.2	22.6	21.6	19.8	20.6	21.6
NW	.6	6.7	3.3	4.7	.6	.1	22.0	13.7	24.3	20.9	32.8	24.0	19.1	22.2	17.6	21.0
VAR	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6						2.6	.0	3.1	5.9	.0	1.7	.7	3.0	.0	2.1
TOT OBS	154	389	371	270	89	12	1683	14.3	235	222	29	230	273	404	34	236
TOT PCT	9.1	23.0	23.9	16.0	5.3	.7	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT PREQ	MEAN SPD	HOUR (GMT)			
	0-3	7-16	17-27	28-40				00	03	09	15	21
N	2.9	4.8	2.5	.4	.0	10.6	12.1	9.6	9.7	11.7	10.2
NE	2.0	2.5	.8	.1	.0	3.4	10.1	4.2	6.1	6.3	4.6
E	1.4	1.4	.4	.1	.0	3.4	10.3	3.7	2.3	3.2	4.4
SE	2.1	2.3	.7	.5	.1	3.8	11.7	3.7	6.2	5.9	3.4
S	2.6	4.1	2.2	1.0	.4	10.3	14.7	10.0	8.5	11.6	9.3
SW	2.9	7.2	4.9	2.8	1.4	19.2	18.2	19.3	19.4	17.8	21.9
W	3.6	8.9	5.3	2.3	.2	20.7	13.3	20.2	21.3	20.3	21.3
NW	3.1	8.9	7.8	2.1	.1	22.0	13.7	22.7	23.0	20.9	20.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6					2.6	.0	4.4	1.3	2.1	1.9
TOT OBS	292	674	419	162	90	1683	14.3	477	239	679	270
TOT PCT	23.3	40.0	24.9	9.6	4.3	100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1906-1974
(OVER-ALL) 1869-1974

MAY

AREA 0014 RAWSON
43.75 60.64

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	4.4	9.2	33.8	32.9	13.8	5.5	.4	13.7	100.0	477
0600	1.3	5.0	38.4	31.3	18.1	5.0	.4	14.7	100.0	259
1200	2.1	5.9	33.9	35.5	16.3	5.2	1.2	14.9	100.0	679
1800	1.9	4.8	36.3	34.1	17.0	5.6	.4	14.6	100.0	270
TOT	44	110	589	571	270	89	12	14.5		1485
PCT	2.6	6.5	35.0	33.9	16.0	5.3	.7	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
NE	.0	1.2	.2	5.7		7.5
E	.0	.0	.0	.3		8.0
SE	.0	.0	.9	1.0		7.6
S	2.4	3.4	5.8	1.9		4.9
SW	3.8	5.8	7.7	6.3		5.1
W	2.9	1.4	7.7	4.1		5.2
NW	13.0	2.4	4.6	3.4		3.7
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	26	17	34	27	104	4.8
TOT PCT	23.0	16.3	32.7	26.0	100.0	

TABLE 6

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

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	1.9	1.9	1.0	.0	.0	.0	8.4	
.0	.0	.0	.0	2.4	1.7	1.0	.0	.0	.0	2.2	
.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	1.0	.5	.0	.0	.0	.0	
.0	.0	.0	1.0	1.0	.0	4.3	1.0	.0	.0	6.3	
.0	.0	1.9	2.2	1.2	1.2	1.9	1.2	1.4	.5	14.2	
.0	.0	.0	.7	1.7	2.6	.0	.7	1.4	.3	8.4	
.0	.0	.0	.0	1.9	.2	.0	.0	.0	.0	21.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	2	2	11	9	10	3	3	1	63	104
.0	.0	1.9	1.9	10.6	8.7	9.6	2.9	2.9	1.0	60.6	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM)			
	>10	>5	>2	>1
>4500	2.9	3.8	3.8	3.8
>3000	4.8	6.7	6.7	6.7
>1500	6.7	16.2	16.2	16.2
>1000	13.3	24.8	24.8	24.8
>600	22.9	36.2	36.2	36.2
>300	24.8	39.0	39.0	39.0
>150	24.8	39.0	40.0	40.0
>0	24.8	39.0	40.0	40.0
TOTAL	26	41	42	42

TOTAL NUMBER OF OBS: 104

PCT FREQ NM <5/8: 60.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	UBSCC	TOTAL OBS
22.9	7.1	11.6	6.9	10.7	4.9	10.7	8.9	15.2	.0	112

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1969-1974

MAY

AREA 0014 RAMSDN
43.75 80.6M

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	1.0
	TOT %	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	1.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0
	TOT %	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	2.0
	TOT %	1.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	2.0
2<5	PCP	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5
5<10	PCP	.5	.0	.0	.0	1.3	1.8	.0	.3	.0	.0	.0	3.5
	NO PCP	6.6	4.1	1.0	.8	3.1	5.4	3.8	12.3	.0	.0	.0	39.0
	TOT %	6.9	4.1	1.0	.8	4.4	7.1	3.8	12.5	.0	.0	.0	42.5
10+	PCP	.0	.0	.3	.3	1.0	1.0	1.0	.0	.0	.0	.0	3.5
	NO PCP	7.1	2.9	.0	2.3	6.3	11.9	7.0	12.1	.0	.0	.0	49.5
	TOT %	7.1	2.9	.3	2.3	7.3	12.9	8.0	12.1	.0	.0	.0	53.0
TOT OBS													200
TOT PCT													16.0 7.5 1.3 3.3 11.6 20.5 14.3 25.6 .0 .0 100.0

TABLE 9

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

VISBY (MM)	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	.0
	4-10	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.7
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.7
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.7	.2	.0	.0	.0	1.7
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.7	.2	.0	.0	.0	1.7
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.7	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	1.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.7	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	1.4
2<5	0-3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3
	4-10	.3	.3	.0	.3	.0	.0	.2	.2	.0	.0	.0	1.4
	11-21	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.7
	22+	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3
	TOT %	.3	.7	.0	1.0	.0	.3	.2	.2	.0	.0	.0	2.8
5<10	0-3	.2	.2	.3	.3	.7	.2	.2	.0	.0	.0	.0	2.1
	4-10	2.9	1.7	.2	.0	.0	.9	2.1	3.4	.0	.0	.0	12.9
	11-21	3.3	1.9	.5	.2	2.3	3.6	2.4	6.8	.0	.0	.0	18.9
	22+	.4	.0	.0	.0	.0	1.0	1.0	1.3	.0	.0	.0	3.8
	TOT %	6.6	3.6	1.0	.5	3.2	3.7	3.8	11.3	.0	.0	.0	37.8
10+	0-3	.0	.3	.0	.3	.3	.0	.0	.0	.0	.0	.0	1.0
	4-10	2.3	1.0	.0	1.0	1.2	3.6	4.1	3.4	.0	.0	.0	13.9
	11-21	2.4	1.0	.3	.3	4.1	3.9	3.1	6.6	.0	.0	.0	22.0
	22+	.9	.0	.0	.0	1.8	4.5	3.8	2.6	.0	.0	.0	13.6
	TOT %	5.9	2.6	.3	1.7	7.3	13.9	11.0	12.7	.0	.0	.0	53.6
TOT OBS													286
TOT PCT													16.3 6.8 1.6 3.3 10.8 19.9 18.0 23.3 .0 .0 100.0

MAY

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1969-1974

AREA 0014 RAWSON
43.75 60.6W

TABLE 10

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

HR (GMT)	000	100	200	300	400	500	600	700	800	900	1000	1500	2000	3000	4000	5000	6000	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	.0	.0	4.0	.0	12.0	8.0	4.0	4.0	.0	.0	32.0	68.0	25								
0600	.0	.0	.0	.0	4.0	12.0	12.0	4.0	4.0	4.0	40.0	60.0	25								
1200	.0	.0	.0	3.3	20.0	6.7	10.0	3.3	3.3	.0	46.7	53.3	30								
1800	.0	.0	3.3	3.3	6.7	6.7	10.0	.0	3.3	.0	33.3	66.7	30								
TOT	0	0	2	2	12	9	10	3	3	1	42	68	110								
PCT	.0	.0	1.8	1.8	10.9	8.2	9.1	2.7	2.7	.9	38.2	61.8	100.0								

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR (GMT)	<1/2	1/2-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	TOTAL OBS
0000	1.2	2.4	.0	3.6	38.1	34.8	84					
0600	.0	1.7	.0	3.4	43.1	31.7	38					
1200	1.1	.0	3.3	1.1	42.2	32.2	90					
1800	.0	3.3	1.6	3.3	29.5	62.3	61					
TOT	2	3	4	8	113	161	393					
PCT	.7	1.7	1.4	2.7	38.6	34.9	100.0					

TABLE 12

CUMULATIVE PCT PRGM UP RANGES UP VSBY (NM) AND/OR CEILING HGT (FEET, NM >4/8) BY HOUR

HR (GMT)	<150 <300	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000	.0	4.3	4.3	30.4	65.2	23
0600	.0	.0	.0	41.7	58.3	24
1200	.0	.0	3.3	43.3	53.3	30
1800	.0	3.6	7.1	28.6	64.3	28
TOT	0	2	4	38	63	103
PCT	.0	1.9	3.8	36.2	60.0	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
54/39	.0	.0	.0	.7	.8	1.7	4.5	.8	13	7.4
50/34	.0	.0	.0	1.1	4.0	3.7	10.8	9.7	38	31.3
45/49	.0	.0	.6	.0	1.1	13.6	13.3	21.0	91	51.7
40/44	.0	.0	.6	.6	.6	2.8	2.3	2.8	17	9.7
TOTAL	0	0	2	3	11	42	38	60	176	100.0
PCT	.0	.0	1.1	1.7	6.3	23.9	33.0	34.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
3.0	.7	.0	.0	.0	.1	.9	2.7	.0	.0	
4.8	2.6	.0	.6	1.4	3.4	6.3	10.5	.0	.0	
7.8	2.1	.6	2.3	8.0	12.9	8.7	9.7	.0	.0	
.0	1.1	.3	.9	3.4	2.8	.6	.6	.0	.0	
13.1	6.3	.9	3.7	12.8	21.3	16.3	23.4	.0	.0	

TABLE 15

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

HR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	62	58	56	48	43	40	39	49.0	465
0600	59	58	53	49	43	41	40	48.8	257
1200	62	59	56	50	43	41	39	49.8	654
1800	62	59	57	50	44	42	41	50.2	258
TOT	62	59	56	49	43	41	39	49.3	1634

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	2.0	2.0	23.5	29.4	41.2	86	81		
0600	.0	2.6	.0	18.4	42.1	36.8	83	38		
1200	.0	3.6	7.3	23.6	29.1	36.4	84	93		
1800	.0	2.6	14.8	23.7	36.8	21.1	81	38		
TOT	0	3	11	42	61	63	84	182		

MAY

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1869-1974

AREA 0014 RAWSON
43.75 60.6H

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	TOT FOG	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.5	1	.0	.5
7/8	.0	.0	.0	.0	2.0	1.5	.0	7	.0	3.4
6	.0	.0	.0	.0	2.0	1.5	.0	7	.0	3.4
5	.0	.0	1.0	3.4	.0	1.5	.0	12	1.0	4.9
4	.0	.0	.5	3.4	.5	.5	.0	10	.0	4.9
3	.0	.5	2.5	4.4	1.5	.5	.0	19	2.5	6.9
2	.5	.5	3.4	3.9	2.0	.0	.0	31	3.0	12.3
1	.0	1.0	3.9	3.9	1.5	.0	.0	21	3.0	7.4
0	.0	.5	3.4	3.9	.5	.0	.0	23	1.5	9.9
-1	.5	.5	3.4	.5	.0	.0	.0	15	.5	6.9
-2	.0	1.5	2.5	2.5	.0	.0	.0	13	.0	6.4
-3	.0	1.0	3.4	.0	.0	.0	.0	10	.5	4.4
-4	.0	1.5	3.0	1.5	.0	.0	.0	12	.5	5.4
-5	.0	1.0	2.0	.5	.0	.0	.0	7	.0	3.4
-6	.0	.0	2.5	1.0	.5	.0	.0	8	.0	3.9
-7/-8	.0	1.5	.5	.0	.0	.0	.0	4	.0	2.0
-9/-10	.0	.5	1.0	.0	.0	.0	.0	3	.0	1.5
TOTAL	2	20	87	83	22	8	1	203	25	178
PCT	1.0	9.9	42.9	31.0	10.8	3.9	.5	100.0	12.3	87.7

PERIOD: (OVER-ALL) 1969-1974

TABLE 18

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

HGT	N						PCT	NE						PCT		
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+			
41	.0	1.9	1.4	.0	.0	.0	3.4	.0	.0	.5	.0	.0	.0	.0	.0	.0
1-2	.0	3.8	.0	.0	.0	.0	3.8	1.9	1.9	.0	.0	.0	.0	.0	.0	3.8
3-4	.0	1.4	.0	.0	.0	.0	1.4	.0	.5	1.9	.0	.0	.0	.0	.0	2.4
5-6	.0	1.9	3.8	.0	.0	.0	5.8	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.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
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	3.4	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.1	5.3	1.4	3.4	.0	19.2	1.9	2.4	2.4	.0	.0	.0	.0	.0	6.7

HGT	E						PCT	SE						PCT		
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+			
41	.0	.0	.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	.0	.0
3-4	.0	.0	.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	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1974

MAY

AREA 0014 RANSON
43.75 60.6W

TABLE 18 (CONT)

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<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	.5	.0	.0	.0	.0	.5
3-4	.0	1.9	.0	1.9	.0	.0	3.8	.0	1.9	.0	.0	.0	.0	1.9
5-6	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	2.4	2.4	.0	.0	4.8
7	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	2.4	2.9	.0	.0	5.3
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	1.9	.0	.0	1.9
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	.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	1.4	3.4	.0	.0	6.7	.0	2.4	4.8	7.2	1.9	.0	16.3

HGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	1.9	.0	.0	.0	1.9
3-4	.0	.0	.0	.0	.0	.0	.0	.0	7.7	3.8	.0	.0	.0	13.5
5-6	.0	.0	1.9	3.4	.0	.0	5.3	.0	.0	7.7	.0	.0	.0	7.7
7	.0	.0	2.9	1.4	.0	.0	4.3	.0	.0	6.3	3.8	.0	.0	10.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	.0	.0	3.8
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	1.9	.0	.0	1.9	.0	.0	.0	.5	.0	.0	.5
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	.5	.0	.0	.0	.5
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.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	4.8	6.7	.0	.0	13.0	.0	7.7	21.6	8.2	.5	.0	38.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	1.9	1.9	.0	.0	.0	3.8	
1-2	1.9	7.7	1.9	.0	.0	.0	11.5	
3-4	.0	13.5	7.7	1.9	.0	.0	23.1	
5-6	.0	1.9	17.3	3.8	.0	.0	23.0	
7	.0	.0	11.5	9.4	.0	.0	21.2	
8-9	.0	.0	.0	3.8	.0	.0	3.8	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	1.9	.0	.0	1.9	
13-16	.0	.0	.0	3.8	1.9	.0	5.8	
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	3.8	.0	3.8	
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	1.9	23.0	40.4	26.9	9.8	.0	100.0	52

PERIOD: (OVER-ALL) 1949-1974

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		
<1	1.2	5.8	9.3	9.1	4.7	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	4	
1-2	.0	.0	3.5	4.7	5.8	4.7	2.3	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	20	8
3-4	.0	.0	2.3	1.2	2.3	1.2	3.5	2.3	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	9
5-6	.0	1.2	.0	1.2	.0	.0	3.5	3.5	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	10
7	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
8-9	.0	.0	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	11
10-11	.0	4.7	2.3	3.5	2.3	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	3
12-13	.0	1.2	1.2	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	86	7
14-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
TOT PCT	1.2	11.6	17.4	18.6	17.4	7.0	11.6	5.8	5.8	1.2	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	100.0		

JUNE

PERIOD: (PRIMARY) 1905-1975
(OVER-ALL) 1854-1975

AREA 0014 RAWSON
43.75 60.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OR TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	1.2	.0	.0	.0	.0	.0	1.2	.0	2.6	10.1	.0	1.8	.0	82.4
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	6.1	.0	1.0	.0	86.9
E	.0	17.8	.0	.0	.0	.0	.0	17.8	.0	.0	8.9	.0	.0	.0	75.3
SE	18.3	.0	.0	.0	.0	.0	.0	18.3	29.6	.0	.0	14.8	.0	.0	37.0
S	8.0	.0	.0	.0	.0	.0	.0	8.0	3.4	.0	4.3	.0	.0	.0	86.1
SW	6.7	.0	.0	.0	.0	.0	.0	6.7	.8	.0	3.4	.0	.0	.0	89.1
W	1.1	.0	2.1	.0	.0	.0	.0	2.2	4.3	.0	9.4	.0	.0	.0	82.9
NW	2.7	.9	.0	.0	.0	.0	.0	3.6	.0	.0	6.6	.0	.0	.0	89.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	80.0
TOT PCT	2.9	1.2	.4	.0	.0	.0	.0	4.3	2.0	1.2	7.4	.4	.4	.0	84.0
TOT OBS:	244														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OR TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0600Z	1.4	1.4	.4	.0	.0	.0	.0	2.7	.0	2.9	8.6	1.4	.0	.0	84.3
0800Z	2.6	.0	.0	.0	.0	.0	.0	2.6	2.6	2.6	3.3	.0	.0	.0	86.8
1201Z	3.3	1.3	1.3	.0	.0	.0	.0	8.0	2.7	.0	8.0	.0	.0	.0	81.3
1802Z	1.3	1.3	.0	.0	.0	.0	.0	3.0	3.0	.0	9.0	.0	1.3	.0	83.6
TOT PCT	2.8	1.2	.4	.0	.0	.0	.0	4.4	2.0	1.2	8.0	.4	.4	.0	83.6
TOT OBS:	230														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47				00	03	06	09	12	15	18	21
N	.7	3.8	4.7	1.9	.6	.0	11.7	14.9	11.8	12.2	7.1	11.4	11.6	11.4	24.3	10.3
NE	.3	1.4	1.3	.4	.2	.0	3.9	13.1	3.8	3.1	3.0	2.2	3.3	4.9	11.8	4.4
E	.2	1.0	.8	.2	.2	.0	2.0	13.7	1.8	2.3	3.4	1.9	2.9	1.4	2.0	1.7
SE	.4	1.7	2.0	.7	.3	.1	3.2	14.8	4.0	3.0	3.6	4.7	5.1	6.2	2.3	4.3
S	.0	3.0	3.1	2.7	.9	.1	10.7	17.2	10.7	10.3	11.6	12.2	10.3	11.4	11.6	8.8
SW	1.3	3.6	4.7	3.7	2.6	1.2	19.0	19.8	20.9	19.1	19.6	16.6	21.0	17.4	10.3	20.9
W	1.6	6.6	7.6	3.4	1.7	.3	21.3	13.9	18.4	21.1	13.4	23.4	21.3	21.1	13.7	24.0
NW	1.1	6.4	6.4	3.8	1.7	.0	24.5	16.9	24.5	23.3	32.1	26.8	23.1	24.2	21.6	23.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7	.0	.0	.0	.0	.0	1.7	.0	1.9	1.4	3.6	1.0	1.2	1.9	2.0	2.3
TOT OBS	174	409	486	384	172	36	2061	16.4	312	286	28	290	326	486	31	302
TOT PCT	6.4	24.3	33.3	18.6	6.3	1.7	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	2.3	4.8	3.4	1.0	.2	11.7	14.9	12.0	11.0	11.3	12.3	
NE	1.4	1.4	.6	.4	.1	3.9	13.1	3.4	2.4	4.2	3.3	
E	.3	1.0	.2	.2	.0	2.0	13.7	2.2	2.2	2.0	1.7	
SE	1.1	2.2	1.2	.6	.1	3.2	14.8	3.3	4.6	3.8	4.0	
S	2.2	3.4	2.8	1.9	.4	10.7	17.2	10.3	12.2	10.9	9.2	
SW	3.9	3.9	4.0	3.0	2.2	19.0	19.8	20.1	16.8	18.9	19.3	
W	4.3	6.2	3.1	2.3	.8	21.3	13.9	19.8	22.6	21.3	22.3	
NW	3.8	9.1	7.6	3.7	.3	24.5	16.9	24.9	27.0	23.8	22.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.7	.0	.0	.0	.0	1.7	.0	1.7	1.3	1.6	2.3	
TOT OBS	442	743	313	274	87	2061	16.4	318	318	792	333	
TOT PCT	21.4	36.1	23.0	13.3	4.2	100.0		100.0	100.0	100.0	100.0	

JUNE

PERIOD: (PRIMARY) 1905-1975
(OVER-ALL) 1854-1975

AREA 0014 RAWSON
43.73 60.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	1.7	7.2	31.3	32.3	17.9	7.7	2.0	16.2	100.0	598
0600Z	1.3	7.5	29.9	30.5	18.6	10.7	1.6	16.8	100.0	318
1201Z	1.6	6.9	28.9	34.1	19.1	7.7	1.6	16.2	100.0	792
1802Z	2.3	4.8	27.8	33.7	19.0	8.8	1.7	16.9	100.0	353
TOT	35	1.9	609	666	384	172	36	16.4		2061
PCT	1.7	6.7	29.5	33.3	18.6	8.3	1.7	100.0		

TABLE 4

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	.0	.0	1.2	3.3		7.7
E	1.1	.0	1.7	1.7		9.9
SE	.0	.0	1.7	3.3		7.4
S	2.9	.5	3.4	3.4		3.3
SW	3.1	3.7	8.1	.4		4.3
W	5.0	4.1	4.1	1.6		3.6
NW	5.4	4.1	10.1	2.7		6.5
VAR	.0	.0	.0	.0		.0
CALM	.8	.0	.8	.8		4.6
TOT OBS	31	17	31	30	129	4.8
TOT PCT	24.0	13.2	39.5	23.3	100.0	

TABLE 4

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

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
.6	.0	.8	.8	2.9	1.0	.0	.0	.0	.8	8.9	
.8	.0	.8	.2	.0	1.9	.0	.0	.0	.8	.0	
.0	.0	.0	.6	1.1	.0	.0	.0	.0	.8	3.1	
.0	.0	.0	.6	2.9	1.5	.0	.0	.0	.0	.2	
.0	.0	.8	2.3	2.1	1.4	.0	1.2	.0	.0	6.6	
.0	.0	.0	1.2	.8	.2	.8	.4	.0	.0	12.0	
.0	.0	.8	2.9	1.6	.0	.0	.0	.0	.0	9.3	
.2	.8	.0	1.6	1.7	.2	.0	.8	.0	.8	16.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	1.6	
2	1	4	13	17	9	1	3	3	4	79	129
1.6	.8	3.1	10.1	13.2	7.0	.8	2.3	.0	3.1	58.1	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM)								
	>10	>8	>6	>4	>3	>2	>1/2	>1/4	>0
>4500	1.3	2.3	2.3	2.3	2.3	3.1	3.1	3.1	3.1
>3000	3.1	4.6	4.6	4.6	4.6	5.3	5.3	5.3	5.3
>2500	3.8	5.3	5.3	5.3	5.3	6.1	6.1	6.1	6.1
>2000	6.9	11.5	11.5	12.2	12.2	13.0	13.0	13.0	13.0
>1000	14.8	21.4	24.4	25.2	25.2	26.0	26.0	26.0	26.0
>400	23.7	32.1	35.1	35.9	35.9	36.6	36.6	36.6	36.6
>300	26.0	35.1	38.2	38.9	38.9	39.7	39.7	39.7	39.7
>150	26.0	35.9	38.9	39.7	39.7	40.5	40.5	40.5	40.5
>0	26.0	35.9	38.9	40.5	40.5	41.2	42.0	42.0	42.0
TOTAL	34	47	51	53	53	54	55	55	55

TOTAL NUMBER OF OBS: 131

PCT FREQ NH <5/8: 58.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
21.1	6.0	11.3	9.0	9.0	10.5	7.3	12.8	10.5	1.5	133

JUNE

PERIOD: (PRIMARY) 1965-1975
(OVER-ALL) 1854-1975

AREA 0014 RAMSON
43.75 60.5W

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
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.8	.0	.5	.0	.0	.0	.2	.3	.0	.5	2.3	2.3
	TOT %	.8	.0	.5	.0	.0	.0	.2	.3	.0	.5	2.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5
	TOT %	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.5	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.5	.5	.0	.5	.0	.0	.5	.0	.0	.0	1.8	1.8
	TOT %	.5	.5	.0	.5	.0	.0	.5	.0	.0	.0	1.8	
2<5	PCP	.0	.0	.0	.4	.8	.0	.7	.2	.0	.0	2.3	2.3
	NO PCP	.0	.0	.0	.5	.0	.0	.5	.5	.0	.0	.9	.9
	TOT %	.0	.0	.0	1.0	.8	.0	.7	.7	.0	.0	3.2	
5<10	PCP	.2	.0	.5	.0	.0	.5	.0	.7	.0	.0	1.8	1.8
	NO PCP	3.2	3.0	1.4	.9	2.6	3.3	9.2	12.2	.0	.5	36.4	36.4
	TOT %	3.5	3.0	1.8	.9	2.6	3.8	9.2	12.9	.0	.5	38.2	
10+	PCP	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.9	.9
	NO PCP	8.1	1.7	2.4	.7	8.7	9.4	10.9	11.6	.0	1.4	53.0	53.0
	TOT %	8.1	1.7	2.9	.7	8.7	9.9	10.9	11.6	.0	1.4	53.9	
TOT OBS												217	
TOT PCT		19.0	9.4	9.2	9.1	10.1	19.7	21.9	25.6	.0	2.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.4
	4-10	.6	.0	.4	.0	.0	.0	.2	.3	.0	.0	1.3	1.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.6	.0	.4	.0	.0	.0	.2	.7	.0	.0	1.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4
1<2	0-3	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.7	.7
	4-10	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.7	.7
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.4	.4	.0	.4	.0	.0	.4	.0	.0	.0	1.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.2	.2	.0	.0	.8	.2	.0	.0	1.1	1.1
	11-21	.0	.0	.0	.8	.3	.0	.0	.0	.0	.0	1.1	1.1
	22+	.0	.0	.0	.0	.8	.2	.0	.4	.0	.0	1.1	1.1
	TOT %	.0	.0	.2	1.0	.8	.2	.8	.6	.0	.0	3.3	
5<10	0-3	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.4	1.5	1.5
	4-10	1.3	1.3	1.3	.4	.4	1.1	3.9	4.8	.0	.0	14.8	14.8
	11-21	1.0	1.3	.0	.0	.0	2.3	3.1	4.2	.0	.0	12.9	12.9
	22+	.6	.0	.0	.4	1.1	.4	.0	1.8	.0	.0	4.1	4.1
	TOT %	3.1	2.6	1.3	.7	2.1	3.8	5.1	10.5	.0	.4	32.8	
10+	0-3	1.1	.0	.0	.0	.2	.4	1.3	.0	.0	1.1	4.1	4.1
	4-10	2.0	.9	.9	1.1	2.3	1.3	3.1	2.8	.0	.0	16.8	16.8
	11-21	3.3	.8	1.4	.1	3.0	4.5	4.2	7.8	.0	.0	25.9	25.9
	22+	.7	.0	.0	.1	4.2	4.2	2.0	2.8	.0	.0	14.0	14.0
	TOT %	7.4	1.8	2.3	1.3	9.8	10.5	12.8	18.4	.0	1.1	60.1	
TOT OBS												271	
TOT PCT		11.7	4.9	4.3	3.4	12.7	14.5	21.9	24.7	.0	1.8	100.0	

JUNE

PERIOD: (PRIMARY) 1905-1975
(OVER-ALL) 1854-1975

AREA 0014 RAMSON
43.75 60.5W

TABLE 10

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

HR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	149	299	599	999	1999	3499	4999	6499	7999				
0000	.0	.0	5.7	11.4	2.9	8.0	.0	2.9	.0	2.9	34.3	65.7	35
0600	.0	.0	4.3	17.4	8.7	.0	.0	4.3	.0	.0	34.8	65.2	23
1200	2.9	.0	2.9	5.9	26.5	5.9	.0	2.9	.0	.0	47.1	52.9	34
1800	2.6	2.6	.0	10.3	12.8	10.3	2.6	.0	.0	7.7	48.7	51.3	39
TOT	2	1	4	14	17	9	1	3	0	4	55	76	131
PCT	1.5	.8	3.1	10.7	13.0	6.9	.8	2.3	.0	3.1	42.0	58.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000	.0	1.3	2.9	2.9	40.5	53.2	79
0600	.0	.0	.0	4.3	37.0	58.7	46
1200	2.4	1.2	1.2	4.7	31.8	58.8	85
1800	4.3	.0	1.5	1.5	22.4	70.1	67
TOT	3	2	4	9	91	166	277
PCT	1.8	.7	1.4	3.2	32.9	59.9	100.0

TABLE 12

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

HR (GMT)	<150 <50VD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8	TOTAL OBS
0000	.0	5.7	20.0	14.3	65.7	35
0600	.0	4.3	21.7	13.0	63.2	23
1200	2.9	3.9	20.6	26.5	52.9	34
1800	2.6	7.7	20.3	28.2	51.3	39
TOT	2	8	27	28	76	131
PCT	1.5	6.1	20.6	21.4	58.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
55/59	.0	.0	.0	.0	1.4	1.4	.5	.0	7	3.2
50/54	.0	.0	.0	.0	1.4	7.8	15.5	3.7	62	28.3
45/49	.0	.0	.0	.5	1.8	14.6	14.6	13.3	109	49.8
40/44	.0	.0	.0	.5	2.9	2.7	5.9	7.3	41	18.7
TOTAL	0	0	0	2	15	38	30	64	219	100.0
PCT	.0	.0	.0	.9	6.8	26.5	36.5	29.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW				
55/59	.0	.0	.0	.1	.3	.1	.8	1.8	.0	.0	.0	.0
50/54	9.8	4.2	.3	.1	2.3	2.1	4.6	8.3	.0	.0	.0	.0
45/49	6.6	4.0	1.4	.0	1.7	7.8	12.3	15.2	.0	1.4	.0	.0
40/44	2.1	2.2	2.4	.6	3.1	2.7	3.1	1.7	.0	.0	.0	.0
TOTAL	18.2	10.4	4.1	.8	7.4	12.1	20.8	24.0	.0	2.3	.0	.0

TABLE 15

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

HR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	57	55	52	46	39	37	35	45.8	383
0600	56	54	51	46	39	37	36	45.9	313
1200	58	55	52	46	40	38	36	46.5	761
1800	60	56	54	47	41	38	37	46.9	337
TOT	60	55	53	46	40	37	35	46.2	1994

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	1.7	8.5	16.9	39.0	33.9	84	38		
0600	.0	.0	10.3	35.9	23.6	28.2	82	39		
1200	.0	1.6	1.6	23.4	39.7	31.7	84	65		
1800	.0	.0	8.1	29.0	37.1	23.8	83	62		
TOT	0	2	13	58	81	67	83	223		

JUNE

PERIOD: (PRIMARY) 1905-1975
(OVER-ALL) 1854-1975

AREA 0014 RANSON
43.75 80.5W

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	37 40	41 44	45 48	49 52	53 56	TOT	M FOG	MO FOG
7/8	.0	.0	.4	.4	.4	3	.0	1.3
6	.0	.0	.9	.4	1.3	6	.4	2.4
5	.0	.0	.9	1.8	.4	7	.0	3.1
4	.0	.0	4.0	1.8	1.8	17	.4	7.1
3	.0	.0	7.1	2.2	1.3	24	.4	10.2
2	.0	1.8	6.2	3.1	.4	22	.4	11.1
1	.0	4.9	3.5	9.1	1.8	30	1.8	11.3
0	.0	3.1	3.8	3.5	.9	30	1.8	11.3
-1	.0	4.9	4.0	1.8	.4	23	.4	10.6
-2	.0	3.5	1.8	1.3	.0	13	.4	6.2
-3	.0	1.8	1.8	1.3	.0	11	.9	4.0
-4	.0	.4	.9	.9	.0	9	.0	2.2
-5	.0	.4	2.7	.0	.0	7	.0	3.1
-6	.4	1.3	2.7	.0	.0	10	.0	4.4
-7/-8	.0	1.8	.4	.0	.0	5	.0	2.2
-9/-10	.0	.4	1.3	.0	.0	4	.0	1.8
-11/-13	.0	.4	.0	.0	.0	1	.0	.4
TOTAL	1	36	49	20	228	16	210	
PCT	.4	24.8	44.2	21.7	8.8	100.0	7.1	92.9

PERIOD: (OVER-ALL) 1969-1975

TABLE 18

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

HGT	H						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	1.4	.0	.0	.0	.0	1.4	.0	1.4	.0	.0	.0	.0	1.4
1-2	1.4	1.0	.0	.0	.0	.0	2.4	.0	1.4	4.1	.0	.0	.0	5.5
3-4	.0	1.4	1.0	.0	.0	.0	2.4	.0	.0	1.0	.0	.0	.0	.0
5-6	.0	.0	1.0	.0	.0	.0	1.0	.0	1.4	.3	.0	.0	.0	1.7
7	.0	.0	2.4	1.4	.0	.0	3.8	.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	1.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	3.8	4.3	3.8	.0	.0	13.4	.0	4.1	4.3	.0	.0	.0	8.6

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	1.4
1-2	.0	1.4	1.4	.0	.0	.0	2.7	.0	.0	1.7	.0	.0	.0	1.7
3-4	.0	1.4	1.4	.0	.0	.0	2.7	.0	.0	1.4	.0	.0	.0	2.7
5-6	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.3	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	3.8	.0	.0	.0	6.3	1.4	.0	3.1	1.7	.0	.0	6.2

PERIOD: (OVER-ALL) 1969-1979

JUNE

AREA 0014 RANSON
49.75 60.5W

TABLE 18 (CONT)

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	2.4	.0	.0	.0	2.4	.0	.0	1.7	.0	.0	.0	2.4
4-6	.0	2.7	.0	1.0	.0	.0	3.8	.0	.0	1.7	.0	.0	.0	1.7
7	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	1.4	.0	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.4	.0	.0	2.7
10-11	.0	.0	.0	.0	1.4	.0	1.4	.0	.0	1.4	.0	.0	.0	1.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	.0	.0	4.1
13-16	.0	.0	.0	1.4	1.4	.0	2.7	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	3.4	3.8	2.7	.0	12.7	.0	.0	7.8	3.8	.0	.0	13.7

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0
1-2	1.4	2.4	1.0	.0	.0	.0	4.8	.0	2.1	4.9	.0	.0	.0	6.9	6.9
3-4	2.1	.0	.0	.0	.0	.0	2.1	.0	2.7	3.1	4.1	.0	.0	9.9	9.9
4-6	.0	.0	2.4	.0	.0	.0	2.4	.0	.0	3.1	2.7	.0	.0	5.8	5.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.4	.0	.0	1.7	1.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	1.4	1.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.3	.0	.0	1.7	1.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.4	3.8	3.4	.0	.0	.0	10.6	.0	4.8	12.3	9.9	.0	.0	27.1	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	2.7	4.1	.0	.0	.0	.0	6.8	
1-2	2.7	8.2	13.7	.0	.0	.0	24.7	
3-4	2.7	3.8	11.0	3.8	.0	.0	24.7	
4-6	.0	4.1	9.6	4.1	.0	.0	17.8	
7	.0	.0	4.1	4.1	.0	.0	8.2	
8-9	.0	.0	1.4	2.7	.0	.0	4.1	
10-11	.0	.0	2.7	1.4	1.4	.0	5.8	
12	.0	.0	.0	3.8	.0	.0	3.8	
13-16	.0	.0	.0	1.4	1.4	.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	8.2	21.9	42.3	24.7	2.7	.0	100.0	79

PERIOD: (OVER-ALL) 1969-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT		
4	1.7	6.0	8.3	5.1	2.6	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	4	
6-7	.0	.9	4.3	10.3	7.7	1.7	1.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	6
8-9	.0	1.7	.0	1.7	2.6	1.7	3.4	3.8	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	9
10-11	.0	1.7	.0	1.7	.9	.9	.9	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	8
12-13	.0	.0	.9	2.6	1.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
15	.0	.0	.0	.0	.9	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
INDT	.9	1.7	3.4	1.7	.9	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	3
TOTAL	3	14	20	27	20	6	11	12	4	0	0	0	0	0	0	0	0	0	0	0	117	6	
PCT	2.6	12.0	17.1	23.1	17.1	5.1	9.4	10.3	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0		

JULY

PERIOD: (PRIMARY) 904-1973
(OVER-ALL) 867-1973

AREA 0014 RAMSON
43.75 60.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIF. SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG MEA
N	3.9	.0	.0	.0	.0	.0	.0	3.9	2.0	.0	13.7	.0	1.0	.0	.0	77.5
NE	.0	.0	33.3	.0	.0	.0	.0	33.3	.0	.0	16.7	.0	.0	.0	.0	50.0
E	18.2	.0	.0	.0	.0	.0	.0	18.2	.0	.0	54.5	.0	.0	.0	.0	27.3
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.0	.0	.0	.0	.0	85.0
S	.0	.0	.0	.0	.0	.0	.0	.0	8.3	.0	11.1	.0	.0	.0	.0	80.6
SW	.0	6.2	12.3	.0	.0	.0	.0	18.5	7.7	.0	9.2	.0	.0	.0	.0	64.6
W	.0	.0	.0	.0	.0	.0	.0	.0	4.0	4.0	6.0	.0	2.0	.0	.0	84.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	3.4	.0	1.8	.0	.0	91.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	1.7	.6	1.7	.0	.0	.0	.0	4.0	2.3	1.1	11.4	.0	1.1	.0	.0	80.1
TOT OBS:	176															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIF. SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG MEA
0600	.0	.0	2.0	.0	.0	.0	.0	2.0	2.0	.0	12.0	.0	2.0	.0	.0	82.0
0609	4.5	.0	.0	.0	.0	.0	.0	4.5	4.5	4.5	4.5	.0	.0	.0	.0	81.8
1209	2.0	.0	2.0	.0	.0	.0	.0	3.9	3.9	2.0	13.7	.0	.0	.0	.0	78.5
1802	1.8	1.8	1.8	.0	.0	.0	.0	5.5	.0	.0	12.7	.0	1.8	.0	.0	80.0
TOT PCT	1.7	.6	1.7	.0	.0	.0	.0	3.9	2.2	1.1	11.8	.0	1.1	.0	.0	79.8
TOT OBS:	178															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.7	2.7	3.7	2.3	.3	.0	9.9	16.0	10.2	7.9	31.3	7.0	8.6	10.7	26.4	10.9
NE	.4	2.5	1.8	.2	.0	.0	4.9	10.3	5.8	4.6	.0	4.9	4.0	5.4	6.4	4.8
E	.3	1.8	.3	.5	.0	.0	2.8	10.7	2.4	3.2	.0	3.0	3.6	3.0	.0	2.0
SE	.8	2.3	1.6	.8	.1	.0	5.6	12.2	4.2	5.3	3.1	7.2	6.6	4.9	9.3	5.3
S	.9	2.5	2.6	1.5	1.1	.4	9.0	18.4	9.7	8.9	14.1	8.9	9.7	9.1	5.7	7.3
SW	1.3	4.4	6.2	3.9	1.7	.8	18.3	18.7	17.8	18.8	14.1	18.4	18.6	16.9	9.3	22.2
W	1.2	7.2	8.2	5.3	1.0	.1	23.2	15.9	24.7	24.0	12.5	23.7	19.9	23.9	17.9	23.8
NW	.6	5.7	9.4	5.8	1.5	.1	23.1	17.6	21.5	22.7	25.0	22.0	22.2	23.7	25.0	22.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3						3.3	.0	3.7	4.6	.0	4.8	3.8	2.4	.0	1.5
TOT OBS	178	394	644	393	109	26	1906	15.9	299	263	16	264	292	468	35	273
TOT PCT	9.3	29.1	33.8	20.7	5.7	1.4	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	03	09	12	18	21
N	1.8	7.2	3.5	1.2	.1	9.9	16.0	9.1	8.4	9.9	12.4	
NE	1.2	2.6	.7	.1	.0	4.9	10.3	5.2	4.6	4.9	4.8	
E	1.0	1.3	.4	.2	.0	2.8	10.7	2.8	2.9	3.2	1.8	
SE	1.9	2.0	1.2	.4	.0	5.6	12.2	4.7	7.0	3.6	5.8	
S	2.0	2.9	1.6	1.2	.9	9.0	18.4	9.3	9.2	9.3	7.3	
SW	3.3	5.5	5.3	2.8	1.4	18.3	18.7	18.3	18.1	17.3	20.7	
W	4.0	8.9	7.0	2.9	.3	23.2	15.9	24.4	23.0	22.4	23.1	
NW	2.2	8.8	8.5	3.2	.4	23.1	17.6	22.1	22.1	24.2	22.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.3					3.3	.0	4.1	4.6	2.9	1.3	
TOT OBS	399	672	343	230	67	1906	15.9	398	280	740	308	
TOT PCT	20.9	35.3	28.3	12.1	3.3	100.0		100.0	100.0	100.0	100.0	

JULY

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1867-1973

AREA 0014 RANSON
43.75 60.8H

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	4.1	6.1	29.2	35.1	18.1	5.6	1.8	15.7	100.0	358
04009	4.4	5.7	30.0	29.3	22.9	5.4	2.1	16.0	100.0	280
12015	2.9	5.9	29.9	33.4	20.8	6.1	1.1	15.8	100.0	760
18021	1.3	6.8	26.0	36.4	23.4	5.5	.8	16.3	100.0	308
TOT	62	116	554	644	393	109	26	15.9		1906
PCT	3.3	6.1	29.1	33.8	20.7	5.7	1.4	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCO	TOTAL CLOUD OBS	MEAN CLOUD COVER
NE	.2	.0	.0	1.2	6.8	6.8
E	.0	.0	.0	2.0	8.0	8.0
SE	1.0	1.0	3.0	1.0	4.5	4.5
S	1.0	.7	3.0	.7	4.3	4.3
SW	3.2	1.2	3.5	.2	3.3	3.3
W	6.2	2.0	3.0	1.2	3.4	3.4
NW	14.9	3.7	8.9	5.7	3.8	3.8
VAR	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	1.0	8.0	8.0
TOT OBS	38	14	30	19	101	4.1
TOT PCT	37.8	13.9	29.7	18.8	100.0	

TABLE 6

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

WIND DIR	000	150	300	400	1000	2000	3000	5000	6500	8000+	NH <4/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	2.7	.7	2.7	.0	.7	1.5	22.5	
NE	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.2	
E	.0	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	
SE	.0	.0	.0	1.0	.0	1.7	.0	.0	.0	.0	3.2	
S	.0	.0	.0	.0	.0	1.2	.7	.5	.0	1.0	2.5	
SW	.0	.0	.0	.2	.5	.0	.5	.5	.0	1.0	5.4	
W	.0	.0	.0	1.5	.0	.0	.7	.5	.5	.0	9.2	
NW	.0	.0	.0	2	.0	1.2	1.7	1.5	.7	4.5	23.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	0	5	5	5	5	5	2	7	68	101
TOT PCT	.0	.0	.0	5.0	5.0	5.0	5.9	3.0	2.0	6.9	67.3	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>8	>2	>1	>1/2	>1/4	>50YD	>0
>8500	5.0	8.9	8.9	8.9	8.9	8.9	8.9	8.9
>8000	6.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
>7500	10.9	17.8	17.8	17.8	17.8	17.8	17.8	17.8
>7000	14.9	22.8	22.8	22.8	22.8	22.8	22.8	22.8
>6500	17.8	27.7	27.7	27.7	27.7	27.7	27.7	27.7
>6000	21.8	32.7	32.7	32.7	32.7	32.7	32.7	32.7
>5500	21.8	32.7	32.7	32.7	32.7	32.7	32.7	32.7
>5000	21.8	32.7	32.7	32.7	32.7	32.7	32.7	32.7
>4500	21.8	32.7	32.7	32.7	32.7	32.7	32.7	32.7
>4000	21.8	32.7	32.7	32.7	32.7	32.7	32.7	32.7
TOTAL	22	33	33	33	33	33	33	33

TOTAL NUMBER OF OBS: 101 PCT FREQ NH <5/8: 67.3

TABLE 7A

PERCENTAGE FREQ UP (LOW CLOUDS (EIGHTHS))

0	1	2	3	4	5	6	7	8	8 OBSCO	TOTAL OBS
30.1	13.6	7.8	4.9	10.7	4.9	5.8	9.7	12.6	.0	103

JULY

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1887-1973

AREA 0014 RAWSON
43.75 60.8W

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	2.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	3.4
	TOT %	2.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	3.4
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.8	.0	.0	.8	.8	.0	.0	1.1	.0	.0	.0	2.8
	TOT %	.8	.0	.0	.8	.8	.0	.0	1.1	.0	.0	.0	2.8
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8
	TOT %	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8
5<10	PCP	1.1	.8	.8	.0	.0	1.7	.0	.0	.0	.0	.0	4.0
	NO PCP	8.0	.9	1.1	.3	1.3	4.1	6.3	11.1	.0	.0	.0	33.0
	TOT %	9.1	1.6	1.7	.3	1.3	5.8	6.3	11.1	.0	.0	.0	36.9
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	15.9	.3	.9	4.8	3.3	3.4	8.0	19.2	.0	.0	.0	56.3
	TOT %	15.9	.3	.9	4.8	3.3	3.4	8.0	19.2	.0	.0	.0	56.3
TOT OBS													176
TOT PCT	29.0	1.7	3.1	5.7	5.1	9.2	14.2	31.4	.0	.6	100.0		

TABLE 9

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

VSBY (MM)	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	.0
	4-10	1.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	1.4
	11-21	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8
	22+	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0
	TOT %	2.4	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	2.9
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.8	.0	.0	1.0	.0	.0	.0	1.4
	11-21	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.8
	22+	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8
	TOT %	.8	.0	.0	.8	.8	.0	.0	1.0	.0	.0	.0	2.4
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.2	.0	.0	.0	.8	.0	.0	.0	.0	.0	1.0
	11-21	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8
	22+	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8
	TOT %	1.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	.0	1.9
5<10	0-3	.0	.8	.2	.2	.0	.0	.0	.0	.0	.8	.8	1.4
	4-10	2.2	.7	1.2	.0	.2	1.4	2.7	2.7	.0	.0	.0	11.1
	11-21	1.8	.8	.0	.2	1.2	1.4	1.9	4.0	.0	.0	.0	11.1
	22+	3.7	.0	.0	.0	.4	2.3	.7	2.8	.0	.0	.0	10.1
	TOT %	7.7	1.7	1.4	.5	1.8	3.4	3.3	9.4	.0	.8	.8	33.8
10+	0-3	.0	.0	.8	.0	.2	.2	.8	.0	.0	1.9	.8	3.4
	4-10	.8	1.0	.2	1.2	1.1	1.0	3.1	3.1	.0	.0	.0	11.6
	11-21	7.2	1.2	.0	3.4	1.2	2.9	4.6	8.9	.0	.0	.0	29.0
	22+	9.9	.0	.0	.0	.7	1.7	1.2	3.4	.0	.0	.0	13.0
	TOT %	14.0	2.2	.7	4.6	3.3	3.8	9.4	17.0	.0	1.9	.8	58.9
TOT OBS													207
TOT PCT	25.6	4.3	2.7	5.5	5.6	11.7	14.7	27.4	.0	2.4	100.0		

JULY

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1867-1973

AREA 0014 RAMSON
43.75 60.8M

TABLE 10

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

HR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999				
00203	.0	.0	.0	.0	7.1	.0	3.6	3.6	.0	7.1	21.4	78.6	28
06209	.0	.0	.0	.0	.0	8.3	8.3	.0	.0	8.3	25.0	75.0	12
12215	.0	.0	.0	13.6	4.5	4.5	4.5	.0	9.1	.0	36.4	63.6	22
18221	.0	.0	.0	5.0	5.0	7.5	7.5	5.0	.0	10.0	40.0	60.0	40
TOT	0	0	0	5	5	5	6	5	2	7	33	69	102
PCT	0	.0	.0	4.9	4.9	4.9	5.9	2.9	2.0	6.9	32.4	67.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00203	.0	1.7	.0	1.7	37.3	59.3	39
06209	.0	.0	.0	3.4	41.4	55.2	29
12215	5.0	3.3	.0	1.7	40.0	50.0	60
18221	4.0	3.3	.0	1.6	23.0	67.2	61
TOT	6	5	0	4	72	122	209
PCT	2.9	2.4	.0	1.9	34.4	58.4	100.0

TABLE 12

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

HR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00203	.0	.0	.0	22.2	77.8	27
06209	.0	.0	.0	25.0	75.0	12
12215	.0	.0	13.6	22.7	63.6	22
18221	.0	.0	5.0	35.0	60.0	40
TOT	0	0	5	28	68	101
PCT	.0	.0	5.0	27.7	67.3	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
35/39	.0	.0	.0	.8	.0	1.5	.0	.0	3	2.3
30/34	.0	.0	.0	.0	2.3	5.3	4.5	1.5	10	13.5
45/49	.0	.0	.0	.0	3.0	6.8	17.3	20.3	63	47.4
40/44	.0	.0	.0	.8	4.5	5.3	12.0	11.3	45	33.0
35/39	.0	.0	.0	.0	.0	.8	2.3	.0	4	3.0
TOTAL	0	0	0	2	13	26	48	44	133	100.0
PCT	.0	.0	.0	1.5	9.8	19.5	36.1	33.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
35/39	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30/34	5.5	.0	.0	.0	.0	.8	1.5	6.0	.0	.0
45/49	12.6	.2	1.3	.9	.9	4.7	6.4	20.1	.0	.0
40/44	5.8	.8	.8	2.4	2.1	7.0	8.3	6.0	.0	.8
35/39	.0	.0	.0	1.1	.8	.4	.8	.0	.0	.0
TOTAL	24.4	.9	2.3	4.5	3.8	13.0	17.3	33.1	.0	.8

TABLE 15

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

HR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00203	36	33	30	43	38	36	3-	44.6	390
06209	36	32	30	43	38	36	36	44.3	276
12215	39	34	32	49	39	36	31	43.3	747
18221	38	33	32	46	39	37	31	46.0	302
TOT	39	34	31	48	38	36	31	43.1	1875

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00203	.0	2.6	10.5	18.4	31.6	36.8	83	38		
06209	.0	.0	9.5	23.8	28.6	38.1	85	21		
12215	.0	.0	8.1	24.3	33.1	32.4	85	37		
18221	.0	2.6	10.3	13.2	44.7	28.9	83	38		
TOT	0	2	13	26	48	43	84	134		

JULY

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1867-1973

AREA 0014 RANSON
43.75 60.8W

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	37 40	41 44	43 48	49 52	53 56	57 60	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	1.1	.6	3	.0	1.7
9/10	.0	.0	.0	1.1	.0	.0	2	.0	1.1
7/8	.0	.0	.6	1.1	.6	.0	4	.6	1.7
6	.0	.0	.6	.6	1.1	.0	4	.0	2.3
5	.0	.0	4.6	4.0	2.3	.0	19	1.7	9.1
4	.0	.6	2.9	4.0	.6	.0	14	.6	7.4
3	.0	1.7	6.9	5.7	1.1	.0	27	2.9	12.6
2	.0	2.3	7.4	2.9	.6	.0	23	2.3	10.9
1	.6	4.6	3.4	1.1	.6	.0	18	1.1	9.1
0	.0	8.6	3.4	.0	.0	.0	21	1.7	10.3
-1	.6	3.4	2.3	.6	.0	.0	12	.6	6.3
-2	.0	3.4	2.9	.0	.0	.0	11	.6	5.7
-3	.6	.0	1.7	.0	.0	.0	4	.0	2.3
-4	.0	2.3	.0	.0	.0	.0	4	.0	2.3
-5	1.1	2.3	.0	.0	.0	.0	6	.0	3.4
-6	1.1	.0	.0	.0	.0	.0	2	.0	1.1
-7/-8	.0	.6	.0	.0	.0	.0	1	.0	.6
TOTAL	7	64	37	14	1	175	21	134	
PCT	4.0	29.7	36.6	21.1	8.0	.6	100.0	12.0	88.0

PERIOD: (OVER-ALL) 1903-1973

TABLE 18

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

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.7	3.0	.0	.0	.0	4.7	.0	.0	1.7	.0	.0	.0	1.7
3-4	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.0	1.3	1.7	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.3	4.7	.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	4.2	3.0	.0	.0	7.2	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	7.4	1.7	.0	9.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	5.3	.0	.0	5.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	12.3	22.3	1.7	.0	38.1	.0	.0	2.3	.0	.0	.0	2.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.7	.0	.0	.0	.0	1.7	.0	.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	1.7	.0	.0	.0	1.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	.0	.0	.0	.0	1.7	.0	.0	2.3	.0	.0	.0	2.3

PERIOD: (OVER-ALL) 1963-1973

JULY

AREA 0014 RAMSON
43.75 60.8W

TABLE 10 (CONT)

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.3	2.9	.0	.0	.0	3.8	.0	.8	1.7	.0	.0	.0	2.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	2.9	.0	.0	.0	3.8	.0	.8	2.1	.0	.0	.0	3.0

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.3	.0	.0	.0	1.3	.0	1.7	5.9	.0	.0	.0	7.6	.0
3-4	.0	1.3	1.3	.0	.0	.0	2.8	.0	.0	4.2	1.7	.0	.0	9.9	.0
5-6	.0	.0	3.0	.0	.0	.0	3.0	.0	.0	7.2	5.1	.0	.0	12.3	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	3.8	.0	.0	5.9	.0
8-9	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	.4	2.1	.0	.0	2.8	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.8	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	3.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	7.2	.0	.0	.0	8.9	.0	1.7	19.9	16.3	.0	.0	36.1	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	1.7	.0	.0	.0	.0	.0	.0	1.7
1-2	.0	9.1	11.9	.0	.0	.0	.0	18.9
3-4	.0	3.4	13.6	1.7	.0	.0	.0	18.6
5-6	.0	.0	13.6	8.8	.0	.0	.0	20.3
7	.0	.0	3.4	8.5	.0	.0	.0	11.9
8-9	.0	.0	6.8	5.1	.0	.0	.0	11.9
10-11	.0	.0	.0	8.5	1.7	.0	.0	10.2
12	.0	.0	.0	8.5	.0	.0	.0	8.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	8.5	49.2	39.0	1.7	.0	100.0	59

PERIOD: (OVER-ALL) 1952-1973

TABLE 10

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	3.4	8.0	12.5	1.1	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	3
6-7	.0	.0	9.1	6.3	8.0	10.2	3.4	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	7
8-9	.0	.0	2.3	2.3	4.5	1.1	5.7	3.4	3.4	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	9
10-11	.0	.0	.0	1.1	1.1	.0	1.1	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	9
12-13	.0	.0	.0	.0	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDRY	.0	.0	.0	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
TOTAL	0	3	17	19	15	14	9	7	3	0	1	0	0	0	0	0	0	0	0	0	88	7
PCT	.0	3.4	19.3	21.6	17.0	15.9	10.2	8.0	3.4	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1903-1975
(OVER-ALL) 1869-1975

AUGUST

AREA 0014 RAWSON
43.6S 60.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG MD PCPN	FOG MD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	4.8	2.4	7.2	.0	.0	.0	85.5
NE	15.1	.0	.0	.0	.0	.0	.0	15.1	.0	.0	24.0	.0	.0	.0	50.9
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	80.0
SE	16.7	.0	.0	.0	.0	.0	.0	16.7	16.7	.0	.0	.0	.0	.0	66.7
S	17.0	.0	.0	.0	.0	.0	.0	17.0	.0	.0	.0	.0	.0	.0	83.0
SW	.0	.0	5.9	.0	.0	.0	.0	5.9	.0	.0	11.8	.0	.0	.0	82.4
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	3.1	.0	.0	.0	93.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.5	.0	.7	.0	.0	.0	.0	4.2	1.4	.7	6.9	.2	.0	.0	86.8
TOT OBS:	144														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG MD PCPN	FOG MD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	2.6	.0	.0	.0	.0	.0	.0	2.6	5.1	2.6	7.7	.0	.0	.0	82.1
0600	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	.0	.0	.0	94.4
1200	7.0	.0	.0	.0	.0	.0	.0	7.0	.0	.0	4.7	.0	.0	.0	86.4
1800	3.3	.0	3.3	.0	.0	.0	.0	6.7	3.3	.0	10.0	.0	.0	.0	80.0
TOT PCT	3.4	.0	.7	.0	.0	.0	.0	4.1	2.0	.7	6.8	.0	.0	.0	86.5
TOT OBS:	148														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.2	2.5	4.3	2.6	.7	.1	11.3	16.8	11.9	11.6	12.0	10.2	12.0	10.9	11.3	11.5	
NE	.7	2.2	1.6	.4	.1	.0	4.9	10.9	4.9	4.4	3.7	2.9	4.3	5.3	6.3	5.3	
E	1.1	1.0	1.5	.1	.0	.0	3.6	9.1	4.1	3.3	.0	3.3	2.7	3.2	13.8	9.3	
SE	1.0	2.4	2.6	.3	.0	.0	6.3	11.2	6.9	5.0	.9	5.8	7.8	6.7	10.0	6.8	
S	.8	3.0	2.8	1.2	.4	.4	8.6	15.6	9.1	9.2	5.3	6.6	8.1	9.2	.0	9.6	
SW	1.1	4.1	6.0	3.5	1.3	.1	16.2	17.1	14.4	17.1	12.0	15.0	15.3	16.1	10.0	18.1	
W	1.7	6.9	9.0	3.6	1.0	.2	22.5	15.0	20.5	22.8	29.6	25.7	21.4	22.7	23.8	20.8	
NW	1.3	6.2	9.7	6.0	1.2	.1	24.5	16.5	23.5	23.2	28.7	27.9	24.8	23.0	23.0	21.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.9	.0	.0	.0	.0	.0	1.9	.0	.8	1.3	3.7	2.7	1.6	2.9	.0	.9	
TOT OBS	183	489	628	299	79	14	1672	15.0	243	228	27	284	250	450	20	228	
TOT PCT	9.7	26.2	37.6	17.9	4.7	.8	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40					00	03	06	09	12	18	21
N	1.9	4.2	3.5	1.8	.1	11.3	16.8	11.8	10.4	11.3	11.5		
NE	1.6	2.3	.6	.3	.0	4.9	10.9	3.7	3.0	3.0	5.3		
E	1.7	1.2	.8	.0	.0	3.6	9.1	3.7	3.0	3.0	9.3		
SE	2.4	2.3	1.5	.3	.0	6.3	11.2	4.0	3.2	7.1	7.1		
S	2.3	3.0	1.8	.9	.3	8.9	15.6	9.1	6.9	6.8	8.9		
SW	2.5	6.0	3.4	2.1	.6	16.2	17.1	16.7	14.7	13.9	17.4		
W	4.1	9.5	6.5	1.8	.6	22.5	15.0	21.6	26.1	22.2	21.1		
NW	3.2	9.7	8.2	3.3	.2	24.5	16.5	24.3	28.0	24.3	22.0		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.9	.0	.0	.0	.0	1.9	.0	1.1	2.8	3.4	4.8		
TOT OBS	344	632	473	170	33	1672	15.0	471	253	700	248		
TOT PCT	21.8	37.8	28.3	10.2	2.0	100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1903-1973
(OVER-ALL) 1069-1973

AUGUST

AREA 0014 RAWSON
43.63 60.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GPT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			40+	MEAN	PCT PREG	TOTAL OBS
				11-21	22-33	34-47				
0000Z	1.1	8.9	26.8	35.1	20.0	3.4	.8	15.1	100.0	471
0400Z	2.8	7.9	33.2	14.4	17.0	5.3	1.2	14.8	100.0	253
1200Z	2.4	7.4	29.7	37.7	16.1	6.0	.6	15.0	100.0	700
1800Z	.8	7.3	28.6	39.5	19.8	2.8	1.2	15.2	100.0	248
TOT	31	132	489	628	299	79	14	15.0		1472
PCT	1.9	7.0	29.2	17.6	17.9	4.7	.8	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CLOUD OBS	MEAN CLOUD COVER	PCT PREG											
							000	100	200	300	400	500	600	700	800	900	1000	1100	1200
N	5.4	1.8	2.1	2.4		3.5	.0	.0	.0	.0	2.1	.0	.6	.0	.0	.0	.0	8.9
NE	1.5	.3	.0	1.9		4.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	1.8
E	.0	.9	.6	2.1		6.2	.0	.0	.0	1.2	.9	.0	.0	.0	.0	.0	.0	1.5
SE	.0	.0	1.8	4.2		7.5	.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	1.2	1.8
S	.9	.6	3.0	4.8		6.3	.0	.0	.0	.0	3.9	1.8	.0	.0	.0	.0	.0	3.6
SW	6.6	.6	2.1	1.8		2.9	.0	.0	.0	1.2	.3	.6	.0	.0	.0	.0	.0	11.0
W	11.6	2.4	9.2	.9		3.0	.0	.0	.9	1.2	1.2	2.4	.0	.0	.0	.0	.0	18.5
NW	11.3	3.0	9.8	3.9		4.0	.0	.0	.3	.0	3.9	3.6	3.0	.0	.0	.0	.0	17.3
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CAL	1.2	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2
TOT OBS	34	8	24	18	84	4.0	0	0	1	3	14	7	3	0	0	0	1	39
TOT PCT	40.9	9.9	28.6	21.4	100.0		.0	.0	1.2	3.6	16.7	8.3	3.6	.0	.0	.0	1.2	65.5

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8) AND OCCURRENCE OF NM <3/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CLOUD OBS	MEAN CLOUD COVER	PCT PREG											
							000	100	200	300	400	500	600	700	800	900	1000	1100	1200
N	5.4	1.8	2.1	2.4		3.5	.0	.0	.0	.0	2.1	.0	.6	.0	.0	.0	.0	8.9
NE	1.5	.3	.0	1.9		4.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	1.8
E	.0	.9	.6	2.1		6.2	.0	.0	.0	1.2	.9	.0	.0	.0	.0	.0	.0	1.5
SE	.0	.0	1.8	4.2		7.5	.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	1.2	1.8
S	.9	.6	3.0	4.8		6.3	.0	.0	.0	.0	3.9	1.8	.0	.0	.0	.0	.0	3.6
SW	6.6	.6	2.1	1.8		2.9	.0	.0	.0	1.2	.3	.6	.0	.0	.0	.0	.0	11.0
W	11.6	2.4	9.2	.9		3.0	.0	.0	.9	1.2	1.2	2.4	.0	.0	.0	.0	.0	18.5
NW	11.3	3.0	9.8	3.9		4.0	.0	.0	.3	.0	3.9	3.6	3.0	.0	.0	.0	.0	17.3
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CAL	1.2	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2
TOT OBS	34	8	24	18	84	4.0	0	0	1	3	14	7	3	0	0	0	1	39
TOT PCT	40.9	9.9	28.6	21.4	100.0		.0	.0	1.2	3.6	16.7	8.3	3.6	.0	.0	.0	1.2	65.5

TABLE 7

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

CEILING (FEET)	= OR >10	= OR >9	= OR >8	VSBY (NM)					= OR >0
				= OR >1	= OR >1/2	= OR >1/4	= OR >50YD		
= OR >4500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
= OR >3000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
= OR >2500	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
= OR >2000	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	
= OR >1000	22.7	29.5	29.5	29.5	29.5	29.5	29.5	29.5	
= OR >400	23.9	33.0	33.0	33.0	33.0	33.0	33.0	33.0	
= OR >300	25.0	34.1	34.1	34.1	34.1	34.1	34.1	34.1	
= OR >150	25.0	34.1	34.1	34.1	34.1	34.1	34.1	34.1	
= OR >0	25.0	34.1	34.1	34.1	34.1	34.1	34.1	34.1	
TOTAL	22	30	30	30	30	30	30	30	

TOTAL NUMBER OF OBS: 84

PCT PREG NM <3/8: 65.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
34.3	10.1	11.1	7.1	2.0	4.0	7.1	4.1	18.2	.0	99

PERIOD: (PRIMARY) 1963-1973
(OVER-ALL) 1869-1975

AUGUST

AREA 0014 RAMSON
43.85 60.4W

TABLE 8

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

VBVY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.3	1.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	2.8
	TOT %	.3	1.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	2.8
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
2<5	PCP	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
	NO PCP	.7	.0	.0	.0	.0	.0	.7	.0	.0	.0	1.4	
	TOT %	.7	.7	.0	.0	.0	.0	.7	.0	.0	.0	2.1	
5<10	PCP	.0	.0	.0	.0	1.4	.7	.0	.0	.0	.0	.0	2.1
	NO PCP	3.0	3.5	2.1	1.7	3.5	2.4	9.7	4.0	.0	.0	31.9	
	TOT %	3.0	3.5	2.1	1.7	4.9	3.1	9.7	4.0	.0	.0	34.0	
10+	PCP	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7
	NO PCP	8.3	3.3	1.4	1.7	3.3	7.3	16.0	17.7	.0	.0	59.7	
	TOT %	8.3	3.3	1.4	2.4	3.3	7.3	16.0	17.7	.0	.0	60.4	
TOT OBS													144
TOT PCT		14.4	9.2	3.5	4.2	8.2	11.8	23.7	22.4	.0	.7	100.0	

TABLE 9

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

VBVY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.2	.2	.0	.9	.0	.0	.0	.0	1.3	
	4-10	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	11-21	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.7	.2	.2	.0	.9	.0	.0	.0	.0	2.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9	
1<2	0-3	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
	22+	.0	.4	.0	.0	.0	.2	.2	.0	.0	.0	.9	
	TOT %	.0	.4	.4	.0	.0	.7	.2	.0	.0	.0	1.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9	
	4-10	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	11-21	.7	.4	.0	.0	.0	.0	.0	.7	.0	.0	1.8	
	22+	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.9	
	TOT %	1.1	.9	.0	.0	.4	.0	.0	1.5	.0	.0	4.0	
5<10	0-3	.2	.2	.0	.0	.0	.9	.0	.4	.0	.0	1.8	
	4-10	.2	1.3	.4	.9	.0	.4	.0	2.2	.0	.0	3.7	
	11-21	1.3	1.1	.9	.0	2.2	.0	6.8	2.0	.0	.0	14.3	
	22+	2.1	.0	.0	.2	2.2	2.4	1.1	.9	.0	.0	8.8	
	TOT %	4.1	2.9	1.3	1.1	4.4	3.7	7.9	3.4	.0	.0	30.6	
10+	0-3	.0	.4	.0	.0	.0	.0	1.3	.4	.0	1.8	4.0	
	4-10	1.8	1.8	.0	.7	1.2	1.7	3.0	3.6	.0	.0	12.7	
	11-21	2.6	1.2	.9	1.3	3.0	3.1	6.3	7.6	.0	.0	28.2	
	22+	2.0	.0	.0	.0	3.4	3.9	3.7	1.5	.0	.0	14.5	
	TOT %	6.4	3.4	.9	2.2	7.6	10.6	14.3	13.2	.0	1.8	60.4	
TOT OBS												227	
TOT PCT		11.8	8.3	2.9	3.5	12.4	13.9	23.3	20.2	.0	1.8	100.0	

AUGUST

PERIOD: (PRIMARY) 1903-1975
(OVER-ALL) 1859-1975

AREA 0014 RAMSON
43.65 60.4W

TABLE 10

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

HRUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999				
00003	.0	.0	.0	.0	21.1	5.3	5.3	.0	.0	5.3	36.8	63.2	19
06009	.0	.0	.0	3.7	18.5	11.1	3.7	.0	.0	.0	37.0	63.0	27
12015	.0	.0	.0	.0	19.2	3.6	.0	.0	.0	.0	23.1	76.9	26
18021	.0	.0	4.3	9.1	4.5	9.1	4.5	.0	.0	.0	31.8	68.2	22
TOT	0	0	1	3	15	7	3	0	0	1	30	64	94
PCT	.0	.0	1.1	3.2	16.0	7.4	3.2	.0	.0	1.1	31.9	68.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HRUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
00003	.0	2.9	.0	5.7	38.6	52.9	70
06009	2.0	.0	2.0	.0	29.4	66.7	51
12015	3.0	.0	1.5	4.5	28.4	62.7	67
18021	4.7	.0	4.7	4.7	20.9	65.1	43
TOT	9	2	4	9	70	140	231
PCT	2.2	.9	1.7	3.9	30.3	61.0	100.0

TABLE 12

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

HRUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	41.2	98.8	17
06009	.0	.0	4.0	36.0	60.0	25
12015	.0	.0	.0	24.0	76.0	25
18021	.0	4.8	14.3	19.0	66.7	21
TOT	0	1	4	26	58	88
PCT	.0	1.1	4.5	29.5	65.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
33/39	.0	.0	.0	.0	.0	.0	.0	.0	1	.8
30/34	.0	.0	.0	2.4	1.6	4.0	6.3	.8	19	15.1
43/49	.0	.0	.0	.8	.0	16.7	20.6	8.7	59	46.8
40/44	.0	.0	.0	3.2	3.2	6.3	9.5	11.1	42	33.3
33/39	.0	.0	.0	.0	.0	.8	.8	2.4	5	4.0
TOTAL	0	0	0	8	4	35	48	29	126	100.0
PCT	.0	.0	.0	6.3	4.8	27.8	38.1	23.0		

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	.8	.0	.0
5.6	.4	.8	.0	.0	1.6	3.0	4.0	.0	.0
11.1	4.2	1.4	1.6	1.4	2.0	13.7	10.7	.0	.8
.4	2.4	1.2	2.4	4.4	2.4	11.9	8.3	.0	.0
.0	.8	.0	.0	3.2	.0	.0	.0	.0	.0
17.1	7.7	3.2	4.0	8.9	6.0	28.6	23.8	.0	.8

TABLE 15

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

HRUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	54	52	49	44	39	35	30	44.2	460
06009	53	52	49	44	39	36	31	44.2	253
12015	58	53	51	47	40	36	33	45.4	685
18021	60	54	52	45	40	36	34	45.6	241
TOT	60	54	50	45	39	36	30	44.9	1639

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	8.3	7.8	36.1	36.1	16.7	80	36		
06009	.0	6.1	15.2	24.2	36.4	18.2	79	33		
12015	.0	5.6	.0	25.0	38.9	30.6	63	34		
18021	.0	4.0	.0	24.0	48.0	24.0	64	29		
TOT	0	8	6	36	51	29	81	130		

AUGUST

PERIOD: (PRIMARY) 1963-1975
(OVER-ALL) 1969-1975

AREA 0014 RAMSON
42.85 60.4W

TABLE 17

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

AIR-SEA TMP DIF	37	41	45	49	53	TOT	% FOG	WD FOG
	40	44	48	52	56			
11/12	.0	.0	.0	.0	.7	1	.0	.7
9/10	.0	.0	.0	.0	.7	1	.0	.7
7/8	.0	.0	.0	.7	.7	2	.0	1.4
6	.0	.0	.0	1.4	.0	2	.0	1.4
5	.0	.0	.7	2.8	.0	5	.0	3.8
4	.0	.7	6.2	2.8	.0	14	.7	9.2
3	.0	.7	4.9	2.8	.0	12	.7	7.7
2	.0	2.8	10.6	2.8	.7	24	.7	16.2
1	.7	5.6	6.2	.0	.7	19	.7	12.7
0	.0	8.5	9.2	2.1	.0	28	2.8	16.9
-1	.7	4.2	2.1	.0	.0	10	.7	6.3
-2	.0	3.5	2.8	.7	.0	10	.0	7.0
-3	1.4	2.8	.7	.7	.0	8	.7	4.9
-4	.0	.0	.7	.0	.0	1	.0	.7
-5	.0	1.4	.0	.0	.0	2	.0	1.4
-6	2.1	.0	.0	.0	.0	3	.0	2.1
TOTAL	7	49	63	24	5	142	7.0	93.0
PCT	4.9	30.3	44.4	16.9	3.5	100.0		

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

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

HGT	N						PCT	NE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	3.8	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	2.6	.6	.0	.0	.0	.0	.0	3.2
5-6	.0	2.6	.0	8.2	.0	.0	10.9	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	1.9	.0	.0	1.9	.0	2.6	.0	.0	.0	.0	.0	2.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	3.8	10.9	.0	.0	16.7	.0	5.1	.6	.0	.0	.0	.0	5.8

HGT	E						PCT	SE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.0	.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	.0
3-4	.0	.0	1.9	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	2.6	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.6	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	1.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	7.1	.0	.0	.0	7.1	.0	.0	.0	1.3	.0	.0	.0	1.3

PERIOD: (OVER-ALL) 1968-1975

AUGUST

AREA 0014 RANSON
43.85 60.4M

TABLE 18 (CONT)

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

HGT	S						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.5	.0	.0	.0	.0	4.5	.0	3.2	.0	.0	.0	.0	.0	3.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0	.0	2.6
5-6	.0	.0	.0	2.6	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	3.8	.0	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.5	.0	6.4	.0	.0	10.9	.0	3.2	2.6	.0	.0	.0	.0	5.8

HGT	M						PCT	NW						TOTAL PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	7.7	1.9	.0	.0	.0	.0	9.6	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.9	.0	.0	.0	1.9	.0	2.6	1.9	.0	.0	.0	.0	4.5
3-4	.0	2.6	.0	.0	.0	.0	2.6	.0	2.6	7.7	2.6	.0	.0	.0	12.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	2.6	2.6	1.9	.0	.0	.0	7.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	2.2	.0	.0	.0	5.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	2.6	.0	.0	2.6	.0	.0	2.6	.0	.0	.0	.0	2.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	7.7	4.8	1.9	2.6	.0	.0	16.7	.0	8.3	17.3	7.7	.0	.0	39.3	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.6	2.4	.0	.0	.0	.0	17.1	
1-2	.0	9.8	7.3	.0	.0	.0	17.1	
3-4	.0	7.3	12.2	2.4	.0	.0	22.0	
5-6	.0	4.9	4.9	12.2	.0	.0	22.0	
7	.0	2.4	4.9	4.9	.0	.0	12.2	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	2.4	2.4	.0	.0	4.9	
12	.0	.0	.0	4.9	.0	.0	4.9	
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	14.6	26.8	31.7	26.8	.0	.0	100.0	41

PERIOD: (OVER-ALL) 1950-1975

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	19.4	9.0	5.1	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	4	
6-7	.0	.0	3.8	12.8	6.4	5.1	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	6
8-9	.0	.0	.0	3.8	.0	2.6	3.8	3.8	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	9
10-11	.0	.0	.0	.0	.0	1.3	.0	1.3	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	11
12-13	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
>13	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
INDET	2.6	1.3	1.3	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3
TOTAL	2	7	16	20	10	9	6	3	3	0	0	0	0	0	0	0	0	0	0	0	78	6	
PCT	2.6	9.0	20.5	25.0	12.8	11.5	7.7	6.4	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0		

SEPTEMBER

PERIOD: (PRIMARY) 1905-1972
(OVER-ALL) 1862-1972

AREA 0014 RAMSON
43.75 61.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRZL	PRZG 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	NO SIG MEA
N	.0	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	6.4	.0	.0	.0	92.6
NE	10.5	.0	.0	.0	.0	.0	.0	10.5	.0	.0	11.8	.0	.0	.0	77.6
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17.4	.0	.0	.0	82.6
SE	8.0	.0	.0	.0	.0	.0	.0	8.0	.0	.0	18.0	.0	.0	.0	74.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.4	.0	.0	.0	93.6
SW	3.1	.0	.0	.0	.0	.0	.0	3.1	7.1	1.8	.0	.0	.0	.0	88.2
W	3.9	.0	.0	.0	.0	.0	.0	3.9	2.9	5.9	7.8	.0	.0	.0	79.4
NW	.0	3.5	.9	.0	.0	.0	.0	4.4	3.5	.0	7.0	.0	.0	.0	85.1
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	20.0	20.0	.0	.0	60.0
TOT PCT	2.3	.5	.5	.0	.0	.0	.0	3.2	1.8	.9	7.7	.5	.0	.0	85.9
TOT OBS:	220														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRZL	PRZG 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	NO SIG MEA
0603	.0	.0	.0	.0	.0	.0	.0	.0	1.8	3.6	3.4	.0	.0	.0	89.3
0609	4.1	.0	.0	.0	.0	.0	.0	4.1	.0	.0	8.2	2.0	.0	.0	83.7
1215	5.2	.0	.0	.0	.0	.0	.0	5.2	1.7	.0	6.9	.0	.0	.0	86.2
1821	.0	1.7	1.7	.0	.0	.0	.0	3.4	3.4	.0	10.2	.0	.0	.0	83.1
TOT PCT	2.3	.5	.5	.0	.0	.0	.0	3.2	1.8	.9	7.7	.5	.0	.0	86.0
TOT OBS:	222														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.0	3.4	7.0	2.8	.5	.0	16.8	16.7	16.3	15.2	35.1	17.3	20.2	13.6	34.8	13.2
NE	1.0	4.0	1.7	.5	.0	.0	7.1	9.7	8.2	5.8	4.8	6.3	5.7	7.9	6.9	8.0
E	.7	1.9	.7	.3	.2	.0	3.9	10.9	5.8	1.9	2.4	1.9	4.7	2.8	7.8	6.4
SE	.9	3.4	2.2	.8	.3	.1	7.2	12.7	7.5	6.9	6.0	9.0	7.7	6.7	5.9	6.3
S	1.1	3.9	2.8	1.1	.5	.1	9.4	13.0	10.1	10.9	3.0	10.2	8.5	10.1	3.9	8.6
SW	1.3	4.5	9.7	2.3	.6	.3	14.8	19.1	13.3	13.7	20.2	13.7	14.5	13.9	7.8	15.6
W	1.0	6.4	6.4	1.8	.3	.1	16.0	12.9	14.0	17.0	8.9	13.8	16.0	18.3	12.7	17.4
NW	1.2	7.7	7.8	3.6	.9	.1	21.4	14.7	20.3	24.2	14.9	23.8	20.0	22.1	16.2	20.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4						3.4	.0	4.6	4.3	4.8	1.9	2.6	2.8	3.9	4.1
TOT OBS	193	640	990	229	58	10	1720	13.2	260	293	42	214	267	435	31	218
TOT PCT	11.2	37.2	34.3	13.3	3.4	.6	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	09	12	18
N	3.1	7.0	5.2	1.3	.2	16.8	16.7	15.8	20.2	16.1	17.3
NE	2.3	3.3	1.2	.1	.0	7.1	9.7	7.0	6.3	7.1	7.8
E	1.9	1.6	.4	.3	.1	3.9	10.9	4.0	2.0	3.3	6.7
SE	2.2	2.8	1.6	.4	.1	7.2	12.7	7.2	8.3	7.1	6.2
S	2.3	3.4	1.6	.8	.3	9.4	13.0	10.5	9.0	9.3	7.7
SW	2.7	3.6	3.3	1.3	.7	14.8	19.1	13.5	16.4	15.3	14.1
W	2.8	7.8	3.5	.7	.2	16.0	12.9	15.4	13.0	17.4	16.5
NW	4.3	9.0	4.1	1.3	.5	21.4	14.7	22.2	22.4	21.3	19.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4					3.4	.0	4.3	2.3	2.7	4.1
TOT OBS	478	693	397	114	36	1720	13.2	493	256	702	269
TOT PCT	27.8	40.4	23.1	6.6	2.1	100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1905-1972
(OVER-ALL) 1862-1972

AREA 0014 RAWSDN
43.75 61.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

H	CALM	WIND SPEED (KNOTS)						MEAN	PCT	TOTAL
		1-3	4-10	11-21	22-33	34-47	48+			
0000	4.5	10.3	40.2	28.0	13.2	3.4	.4	12.3	100.0	493
0600	2.3	7.0	38.3	23.2	14.1	4.3	.8	13.6	100.0	256
1200	2.7	7.0	34.5	38.6	13.7	3.0	.6	18.7	100.0	702
1800	4.1	6.3	37.9	35.7	11.9	3.3	.7	18.0	100.0	269
TOT	3.8	7.3	34.0	30.0	13.9	3.4	.6	15.2	100.0	1720
PCT	3.4	7.8	37.2	34.3	13.3	3.4	.6	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8-8	TOTAL	MEAN
N	9.3	6.7	12.1	8.1		4.5
NE	3.2	.6	3.2	4.2		4.8
E	2.3	.0	.0	1.4		3.3
SE	1.2	.0	.0	2.1		3.1
S	1.2	.0	1.1	2.3		3.4
SW	3.3	3.6	2.3	2.8		4.1
W	0.3	1.4	1.2	1.2		2.4
NH	7.7	2.1	1.8	1.8		2.7
CALM	.0	.0	.0	.0		7.0
TOT OBS	32	23	32	36	142	4.0
TOT PCT	16.6	10.2	22.3	24.3	100.0	

TABLE 6

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

WIND DIR	000	150	300	400	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
N	.7	.0	.5	.5	4.9	4.4	2.6	.0	.0	.5	22.0	
NE	1.4	.0	1.4	.0	3.5	.0	.2	.0	.0	.0	4.4	
E	.0	.0	.0	.0	.7	.7	.0	.0	.0	.0	2.3	
SE	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	1.9	
S	1.2	.0	.0	.5	.0	.5	.0	.0	.0	.5	1.8	
SW	.2	.0	.7	.9	.0	1.6	.0	.0	.0	.2	10.7	
W	.0	.0	.0	.0	.0	.5	.0	.7	.0	.0	10.9	
NH	.0	.0	.0	.2	.7	1.4	.0	.0	.0	.0	10.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	5	0	0	0	0	7	0	0	0	0	0	142
TOT PCT	3.5	.0	3.3	2.1	10.6	9.9	3.4	.7	.0	2.1	64.1	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>3	>2	>1	>1/2	>1/4	>300D	>0
>8000	1.4	1.4	2.2	2.2	2.2	2.2	2.2	2.2
>5000	1.4	1.4	2.2	2.2	2.2	2.2	2.2	2.2
>3000	3.0	3.0	5.8	5.8	5.8	5.8	5.8	5.8
>2000	10.8	13.1	15.8	15.8	15.8	15.8	15.8	15.8
>1000	16.3	23.2	23.9	23.9	26.6	26.6	26.6	26.6
>800	18.0	26.6	27.3	27.3	28.0	28.8	28.8	28.8
>600	18.7	27.3	29.3	30.9	32.4	32.4	32.4	32.4
>400	18.7	27.3	29.3	30.9	32.4	32.4	32.4	32.4
>300	20.1	28.8	30.9	33.1	34.3	36.0	36.0	36.0
TOTAL	28	40	43	46	48	50	50	50

TOTAL NUMBER OF OBS: 139

PCT FREQ NH <5/8: 64.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DBSCD	TOTAL
33.8	0.6	9.9	8.4	3.3	4.0	9.3	4.6	19.8	2.0	141

SEPTEMBER

PERIOD: (PRIMARY) 1965-1972
(OVER-ALL) 1862-1972

AREA 0014 RAWSON
43.75 61.2W

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.5	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4
	TOT %	.5	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4
1/2<1	PCP	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.9
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.9
1<2	PCP	.4	.5	.0	.0	.0	.0	.0	.6	.0	.0	.0	1.4
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5
	TOT %	.4	.5	.0	.0	.0	.0	.0	.6	.0	.0	.5	1.9
2<5	PCP	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5
	NO PCP	4.1	.6	.9	.9	.5	.5	.0	.5	.0	.5	.5	8.5
	TOT %	4.1	1.1	.9	.9	.5	.5	.5	.5	.0	.5	.5	9.4
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	12.6	.9	.7	1.4	.5	2.6	2.8	2.9	.0	.0	.0	24.5
	TOT %	12.6	.9	.7	1.4	.5	2.6	2.8	2.9	.0	.0	.0	24.5
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	17.6	5.5	2.5	2.2	3.9	11.4	7.8	9.4	.0	1.4	1.4	61.8
	TOT %	17.6	5.5	2.5	2.2	3.9	11.4	7.8	9.4	.0	1.4	1.4	61.8
TOT OBS													212
TOT PCT													39.1 9.0 4.1 5.1 4.8 13.0 11.1 13.4 .0 2.4 100.0

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4
	4-10	.0	.4	.0	.0	.0	.0	.0	.4	.0	.0	.4	.4
	11-21	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.4	.8	.0	.0	.0	.0	.0	.4	.0	.0	.4	1.7
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.8
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.8
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.4
	4-10	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4
	11-21	.3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.4	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	.4
	TOT %	.3	.4	.0	.0	.0	.0	.0	.5	.0	.4	.4	1.7
2<5	0-3	.2	.0	.0	.0	.0	.0	.0	.2	.0	.4	.8	.8
	4-10	.3	.1	.0	.8	.0	.0	.0	.0	.0	.0	1.3	1.3
	11-21	2.5	.4	1.3	.0	.0	.4	.4	.4	.0	.0	5.5	5.5
	22+	.8	.4	.4	.0	.4	.0	.0	.0	.0	.0	2.1	2.1
	TOT %	3.9	.9	1.7	.8	.4	.4	.4	.4	.6	.0	.4	9.7
5<10	0-3	.6	.2	.0	.0	.0	.0	.0	.0	.9	.4	1.3	1.3
	4-10	2.7	1.1	.6	1.1	.0	.3	1.8	.8	.0	.0	8.4	8.4
	11-21	4.8	.1	.0	.2	.4	1.1	.2	.7	.0	.0	7.6	7.6
	22+	4.1	.7	.0	.0	.0	.9	.5	1.3	.0	.0	7.6	7.6
	TOT %	12.3	2.1	.6	1.3	.4	2.3	2.5	2.8	.0	.4	.4	24.8
10+	0-3	.0	.6	.6	.0	.4	.0	.0	.0	.0	1.3	2.9	2.9
	4-10	7.0	2.4	1.8	1.8	1.3	3.5	2.6	3.8	.0	.0	24.4	24.4
	11-21	6.3	2.0	.0	1.3	1.8	7.2	4.0	4.5	.0	.0	26.9	26.9
	22+	2.7	.9	.0	.0	.8	1.4	.7	.5	.0	.0	7.1	7.1
	TOT %	16.1	6.0	2.4	3.0	4.3	12.1	7.4	8.8	.0	1.3	61.3	61.3
TOT OBS													238
TOT PCT													33.0 10.3 4.7 5.6 5.1 15.2 10.3 13.2 .0 2.5 100.0

SEPTEMBER

PERIOD: (PRIMARY) 1905-1972
(OVER-ALL) 1862-1972

AREA 0014 RAMSON
43.75 61.2H

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	3.2	.0	.0	.0	6.5	12.9	.0	3.2	.0	9.7	39.5	64.5	31
0600	.0	.0	4.0	8.0	.0	.0	4.0	.0	.0	.0	16.0	84.0	29
1200	4.4	.0	4.4	2.2	15.6	8.9	.0	.0	.0	.0	39.6	64.4	45
1800	4.3	.0	4.3	.0	12.8	12.8	6.3	.0	.0	.0	42.6	37.4	47
TOT	5	0	5	3	15	14	5	1	0	3	51	97	148
PCT	3.4	.0	3.4	2.0	10.1	9.8	3.4	.7	.0	2.0	34.5	65.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	1.6	.0	.0	8.2	21.3	68.9	61
0600	.0	2.0	2.0	10.0	20.0	52.0	50
1200	2.9	1.3	1.3	8.8	30.9	54.4	68
1800	1.6	.0	3.3	6.6	19.7	68.9	61
TOT	2	4	33	60	147	240	
PCT	1.7	.8	1.7	9.6	25.0	61.3	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 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000	3.6	3.8	7.7	30.8	61.3	26
0600	.0	8.3	20.8	4.2	73.0	24
1200	4.7	11.0	14.0	23.3	62.8	43
1800	4.3	8.7	10.9	34.8	54.3	46
TOT	5	12	18	35	86	139
PCT	3.4	8.6	12.9	25.2	61.9	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	.7	2.7	.0	.7	6	4.1
60/64	.0	.0	.0	.7	3.4	3.4	11.0	3.4	32	21.9
65/69	.0	.0	.0	.7	7	14.6	24.0	8.2	70	47.9
70/74	.0	.0	.0	.7	3.4	6.6	3.4	11.0	37	25.3
75/79	.0	.0	.0	.0	.7	.0	.0	.0	1	.7
TOTAL	0	0	0	3	12	41	36	34	146	100.0
PCT	.0	.0	.0	2.1	8.2	28.1	24.4	23.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.7	.7	.0	.0	.5	1.0	1.2	.0	.0	.0
60/64	6.8	2.4	1.2	.2	.0	2.7	3.8	2.1	.0	.7
65/69	12.8	2.7	2.1	2.7	3.1	6.3	4.3	12.3	.0	1.4
70/74	1.9	4.1	1.0	2.9	1.9	6.8	3.4	1.9	.0	1.4
75/79	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0
TOTAL	23.3	9.9	4.3	5.8	5.5	17.6	14.7	12.4	.0	3.4

TABLE 15

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

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	60	56	52	45	40	38	34	45.4	488
0600	61	56	51	45	40	38	34	45.1	257
1200	64	57	53	47	41	40	36	47.0	677
1800	63	59	55	48	42	40	40	47.9	290
TOT	63	57	53	46	41	39	34	46.4	1672

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.0	2.3	23.3	44.2	30.2	85	63		
0600	.0	3.0	9.1	27.3	36.4	24.2	82	33		
1200	.0	.0	10.8	25.0	34.4	21.9	81	32		
1800	.0	2.1	9.1	35.9	38.3	15.4	80	39		
TOT	0	3	12	41	37	36	82	147		

SEPTEMBER

PERIOD: (PRIMARY) 1904-1972
(OVER-ALL) 1862-1972

AREA 0014 RAWSON
43.7S 61.2W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOLT 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	% FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.9	2	.0	.9
11/13	.0	.0	.0	.0	.5	.9	2	.0	.9
9/10	.0	.0	.0	.0	.9	.0	2	.0	.9
7/8	.0	.0	.5	2.8	2.8	.0	13	1.8	4.1
6	.0	.0	.9	2.3	.9	.0	9	.5	3.7
5	.0	.0	.9	6.9	.0	.0	17	.0	7.8
4	.0	.0	6.0	5.0	.5	.0	25	.0	11.5
3	.0	.5	6.9	4.1	.0	.9	26	3.2	8.7
2	.0	2.3	7.8	2.8	.0	.0	28	.9	11.9
1	.0	1.8	8.7	2.9	.5	.0	29	.0	13.3
0	.5	2.8	4.1	1.4	.5	.0	20	.0	9.2
-1	.5	1.4	5.0	.5	.0	.0	16	.5	6.9
-2	.5	4.6	1.8	.0	.0	.0	15	.0	6.9
-3	.5	1.8	.0	.0	.0	.0	5	.0	2.3
-4	.0	1.8	.5	.0	.0	.0	5	.0	2.3
-5	.5	.5	.0	.0	.0	.0	2	.5	.5
-6	.5	.0	.0	.0	.0	.0	1	.0	.5
-7/-8	.5	.0	.0	.0	.0	.0	1	.0	.5
TOTAL	7	38	94	61	14	4	218	16	202
PCT	3.2	17.4	43.1	28.0	6.4	1.8	100.0	7.3	92.7

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

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

HGT	N						PCT	NE						PCT		
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.2	.7	.0	.0	.0	4.9	.0	1.4	.9	.0	.0	.0	.0	.0	2.3
3-4	.0	3.5	2.9	.0	.0	.0	6.0	.0	1.2	.0	.0	.0	.0	.0	.0	1.2
5-6	.0	1.8	8.0	1.9	.0	.0	9.3	.0	.8	1.2	.0	.0	.0	.0	.0	1.4
7	.0	.0	3.5	1.9	.0	.0	3.3	.0	.0	1.2	1.9	.0	.0	.0	.0	3.0
8-9	.0	.0	3.2	3.3	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.7	4.8	.0	.0	5.3	.0	.0	.2	.0	.9	.0	.0	.0	1.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.9	16.0	12.5	.0	.0	39.4	.9	3.0	3.2	2.8	.0	.0	.0	.0	10.0

HGT	E						PCT	SE						PCT		
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.7	.0	.0	.0	.0	.7	.0	.2	.0	.0	.0	.0	.0	.0	.2
1-2	.9	.7	.9	.0	.0	.0	2.5	.0	1.2	.0	.0	.0	.0	.0	.0	1.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.9	.9	.0	.0	.0	.0	.0	1.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.9	.0	.0	.0	.9	.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
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	1.4	1.9	.0	.0	.0	4.2	.0	2.3	.9	.0	.0	.0	.0	.0	3.7

PERIOD: (OVER-ALL) 1963-1972

SEPTEMBER

AREA 0014 RAMSON
43.75 61.2W

TABLE 18 (CONT)

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

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.7	.0	.0	.0	1.6	.0	1.2	.0	.0	.0	.0	.0	.0	1.2
3-4	.0	.0	.7	.7	.0	.0	1.4	.0	.9	1.2	.2	.7	.0	.0	.0	2.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.2	.0	.0	.0	.0	2.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	.0	2.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	1.4	.7	.0	.0	3.0	.0	.0	3.0	7.9	1.4	.0	.0	.0	12.3

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.0	.7	.0	.0	.0	.0	.7	.0	.9	.0	.0	.0	.0	.0	.0	.9	
1-2	.0	.7	1.6	.0	.0	.0	2.3	.0	1.2	.5	.0	.0	.0	.0	.0	1.6	
3-4	.0	1.6	.7	.0	.0	.0	2.3	.0	1.2	5.1	.0	.0	.0	.0	.0	6.3	
5-6	.0	.0	.9	.7	.0	.0	1.6	.0	.0	3.0	.9	.0	.0	.0	.0	3.9	
7	.0	.0	.9	.9	.0	.0	1.9	.0	.0	1.9	.9	.0	.0	.0	.0	2.8	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.7	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	1.9	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.0	4.2	1.6	.0	.0	8.8	.0	.0	3.2	10.9	4.2	.0	.0	.0	18.3	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.9	4.6	.0	.0	.0	.0	6.5	
1-2	.9	11.1	6.3	.0	.0	.0	18.3	
3-4	.0	8.2	10.2	.9	.0	.0	19.4	
5-6	.0	2.8	13.9	3.7	.0	.0	20.4	
7	.0	.0	8.3	5.6	.0	.0	13.9	
8-9	.0	.0	7.4	3.7	.0	.0	11.1	
10-11	.0	.9	.0	7.4	.0	.0	8.3	
12	.0	.0	.0	.9	.0	.0	.9	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.8	27.8	46.3	23.1	.0	.0	100.0	108

PERIOD: (OVER-ALL) 1950-1972

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	2.0	6.6	10.6	8.6	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	3
6-7	.0	.0	1.3	4.6	4.6	7.9	3.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	7
8-9	.0	.0	2.0	1.3	4.6	7	2.0	2.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	8
10-11	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
12-13	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
3-13	.0	.0	.0	.0	2.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
INDET	1.3	9.3	4.6	3.3	2.6	4.6	3.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	5
TOTAL	3	23	28	28	24	20	14	6	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	151	5
PCT	3.3	16.6	18.5	18.5	13.9	13.2	9.3	4.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	5

OCTOBER

PERIOD: (PRIMARY) 1907-1974
(OVER-ALL) 1968-1974

AREA 0014 RAWSON
43.75 61.84

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	SPRAY BLWG SNOW	NO SIG WEA
N	.8	.0	.4	.0	.0	.0	.0	1.1	.4	1.1	9.2	.0	.4	.0	87.8
NE	1.4	1.9	.1	.0	.0	.0	.0	3.3	2.0	.0	14.7	.0	.1	.0	79.7
E	11.3	2.2	2.9	.0	.0	.0	.0	17.4	4.2	.0	8.8	.0	.0	.0	69.8
SE	23.3	7.9	4.3	.0	.0	.0	.0	37.8	2.2	.0	2.2	.0	.0	.0	37.9
S	4.6	1.1	1.1	.0	.0	.0	.0	6.8	3.3	.0	2.7	.0	1.1	.0	86.1
SW	1.7	4.1	.0	.0	.0	.0	.0	3.8	1.4	1.4	9.2	.0	.0	.0	88.3
W	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	1.7	.0	.0	.0	97.3
NW	2.6	.0	.0	.0	.0	.0	.0	2.6	.9	.8	12.1	.0	.0	.0	83.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	2.4	.0	.0	.0	.0	2.4	.0	2.4	2.4	.0	.0	.0	92.9
TOT PCT	4.1	1.8	.9	.0	.0	.0	.0	6.8	1.6	.6	7.3	.0	.2	.0	83.3
TOT OBS:	1041														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	SPRAY BLWG SNOW	NO SIG WEA
0000	3.7	2.4	.0	.0	.0	.0	.0	6.1	2.8	.4	10.6	.0	.4	.0	79.7
0600	3.3	1.6	1.2	.0	.0	.0	.0	6.3	1.2	1.6	4.7	.0	.0	.0	84.2
1200	3.8	.4	.4	.0	.0	.0	.0	4.3	1.9	.4	8.7	.0	.0	.0	84.3
1800	3.3	2.8	1.7	.0	.0	.0	.0	8.0	.7	.0	7.3	.0	.3	.0	83.7
TOT PCT	4.1	1.8	.9	.0	.0	.0	.0	6.7	1.6	.6	7.8	.0	.2	.0	83.1
TOT OBS:	1092														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18	21
N	.3	6.4	7.3	1.6	.2	.0		16.1	13.2	16.2	14.9	23.1	12.8	16.1	12.7	16.7	13.0
NE	.4	4.8	3.2	.8	.0	.0		11.2	12.3	14.0	6.2	20.3	4.1	11.3	7.1	17.1	6.6
E	.4	2.3	3.0	.7	.1	.1		6.6	14.1	8.1	1.9	13.0	3.8	3.8	3.0	8.3	3.1
SE	.3	2.3	1.8	1.0	.3	.2		6.2	17.2	6.8	3.8	7.9	3.9	3.1	6.1	7.1	3.1
S	.6	3.8	3.2	1.1	.8	.1		9.6	13.1	10.7	3.3	3.3	6.3	3.3	11.0	10.1	11.1
SW	1.1	3.3	6.1	1.8	.6	.0		14.9	14.1	13.9	13.9	6.6	13.3	13.4	13.4	16.7	21.0
W	1.2	3.8	3.8	1.1	.3	.0		14.2	12.2	11.3	16.4	7.7	20.4	13.8	18.3	10.3	17.0
NW	1.0	6.7	7.8	1.9	.2	.0		17.3	12.6	13.6	26.2	11.0	26.9	19.3	21.4	7.9	17.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.7							3.7	.0	3.3	3.2	2.9	4.1	3.9	3.0	3.3	4.0
TOT OBS	204	842	904	226	62	12	2230		13.0	396	189	238	193	410	367	233	200
TOT PCT	9.1	37.4	40.2	10.0	2.8	.3	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40						00	03	06	09	12	15	18	21
N	2.4	9.1	4.0	.4	.1		16.1	13.2	17.2	16.3	14.3	13.1	9.3	12.3
NE	1.9	6.6	2.7	.1	.0		11.2	12.3	11.3	13.1	9.3	9.3	12.3	
E	1.3	2.9	1.7	.4	.1		6.6	14.1	6.1	8.9	3.4	7.0		
SE	1.4	2.2	1.3	1.0	.3		7.2	17.2	6.3	7.0	3.6	6.2		
S	1.8	4.8	1.6	.9	.4		9.6	13.1	10.3	6.7	10.1	10.3		
SW	3.1	6.8	3.8	.9	.3		14.9	14.1	14.3	10.8	13.4	13.4		
W	3.8	6.8	2.9	.7	.0		14.2	12.2	13.1	13.4	13.9	13.4		
NW	4.1	8.4	4.2	.7	.0		17.3	12.6	17.6	18.2	20.3	11.9		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	3.7						3.7	.0	3.2	3.3	3.3	4.8		
TOT OBS	332	1074	300	113	31	2230		13.0	383	433	777	433		
TOT PCT	23.6	47.7	22.2	3.0	1.4	100.0			100.0	100.0	100.0	100.0		

OCTOBER

PERIOD: (PRIMARY) 1907-1974
(OVER-ALL) 1868-1974

AREA 0014 RAWSON
43.75 61.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						48+	MEAN	PCT PREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
0000Z	3.2	6.0	39.9	36.8	10.9	2.7	.9	13.0	100.0	583	
0400Z	3.5	4.6	37.4	42.3	10.2	1.8	.2	13.0	100.0	453	
1200Z	3.9	3.4	36.4	41.1	10.4	2.7	.9	13.2	100.0	777	
1800Z	4.6	3.2	36.9	41.1	9.1	3.7	.4	12.7	100.0	499	
TOT	83	121	842	904	228	62	12	13.0		2290	
PCT	3.7	5.4	37.4	40.2	10.0	2.8	.9	100.0			

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN CLOUD COVER
NE	2.4	1.3	3.4	6.5	6.2	4.2
E	1.4	.9	2.4	6.1	6.5	6.5
SE	.2	1.6	1.0	3.9	6.8	6.8
S	1.1	1.0	3.9	2.2	5.8	5.8
SW	4.9	4.2	3.9	1.8	3.8	3.8
W	4.8	1.4	2.4	.8	3.2	3.2
NW	2.4	2.3	3.0	2.1	4.7	4.7
VAR	.0	.0	.0	.0	.0	.0
CALM	2.0	.9	1.1	.9	3.1	3.1
TOT OBS	187	117	180	194	648	3.0
TOT PCT	24.2	18.1	27.8	29.9	100.0	

TABLE 6

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

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	2.0	.0	.1	.4	1.0	3.0	.6	.2	.0	.4	11.5	
NE	2.9	.2	.2	1.1	1.9	3.3	1.5	.0	.0	.3	6.3	
E	1.4	.0	.0	.7	3.7	1.9	.3	.0	.0	.0	2.4	
SE	1.0	.0	.2	.7	2.2	.5	.3	.0	.0	.0	1.7	
S	.2	.0	.3	.7	1.9	2.0	.1	.0	.0	.0	3.0	
SW	.7	.0	.0	.2	1.3	1.7	.1	.0	.0	.0	2.0	
W	.3	.0	.0	.0	.5	1.7	.7	.0	.0	.0	10.9	
NW	.3	.0	.2	.2	.8	.8	.7	.0	.0	.2	7.1	
VAR	.0	.0	.0	.0	1.3	1.4	.7	.0	.0	.2	3.8	
CALM	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	90	1	6	24	22	98	25	1	1	8	328	648
TOT PCT	9.3	.7	.9	4.0	14.0	13.6	3.9	.2	.2	1.2	30.6	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>9	>2	>1	>1/2	>1/4	>50YD	>0
>8000	.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>7000	.9	1.6	1.6	1.6	1.6	1.6	1.6	1.6
>6000	4.1	3.4	3.8	3.8	3.8	3.8	3.8	3.8
>5000	11.9	17.7	20.9	20.9	20.9	21.0	21.2	21.2
>4000	19.1	26.8	33.9	34.3	34.3	34.7	34.8	34.8
>3000	20.6	31.2	37.7	38.3	38.4	38.6	38.8	38.8
>2000	21.0	32.0	38.6	39.2	39.4	39.6	39.7	39.7
>1500	21.0	32.0	38.8	39.4	39.6	39.7	39.9	39.9
>1000	21.0	32.0	42.2	43.2	43.4	43.5	43.7	43.7
TOTAL	138	202	267	273	274	286	311	311

TOTAL NUMBER OF OBS: 632

PCT FREQ NH <5/8: 30.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	8 OBSC	TOTAL OBS
13.3	10.3	10.7	7.9	6.9	4.8	7.1	11.2	17.3	8.8	707

OCTOBER

PERIOD: (PRIMARY) 1907-1974
(OVER-ALL) 1868-1974

AREA 0014 RAWSON
43.73 61.8W

TABLE 8

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

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.4	*	*	*	.0	.0	.0	.0	.5	
	NO PCP	1.1	1.4	.4	.0	.1	.2	.0	.5	.0	.1	3.7	
	TOT %	1.1	1.4	.8	*	.1	.2	.0	.5	.0	.1	4.2	
1/2<1	PCP	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	*	*	*	*	.0	.0	.0	.0	.2	
	TOT %	.0	.0	*	.2	.1	*	.0	.0	.0	.0	.5	
1<2	PCP	.0	.0	.1	.3	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.1	.0	.1	.0	.1	.0	.0	.1	.0	.0	.4	
	TOT %	.1	.0	.2	.3	.1	.0	.0	.1	.0	.0	.9	
2<5	PCP	.1	.4	.7	1.3	.3	.2	.0	.0	.0	.0	3.0	
	NO PCP	2.0	1.2	.9	.7	.4	1.1	.5	.8	.0	.0	7.6	
	TOT %	2.1	1.7	1.6	2.0	.7	1.3	.5	.8	.0	.0	10.6	
5<10	PCP	*	.1	.5	.7	.1	.4	.0	.3	.0	.1	2.2	
	NO PCP	3.1	2.5	2.4	1.4	1.9	3.1	1.8	2.8	.0	.4	25.5	
	TOT %	3.1	2.6	2.9	2.1	2.0	3.5	1.8	3.1	.0	.5	27.7	
10+	PCP	.1	.0	.0	.0	.1	*	.0	.0	.0	.0	.3	
	NO PCP	10.6	8.8	4.2	2.0	3.7	9.1	7.5	6.6	.0	3.5	55.9	
	TOT %	10.7	8.8	4.2	2.0	3.8	9.1	7.5	6.6	.0	3.5	56.2	
TOT OBS												1029	
TOT PCT												19.1 16.4 9.8 6.8 8.9 14.2 9.8 11.0 .0 4.1 100.0	

TABLE 9

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

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.2	.0	.0	.0	.0	.1	.0	.1	.4	
	4-10	.3	.5	.2	.0	.1	.3	.0	.4	.0	.0	2.0	
	11-21	.6	.8	.1	.0	*	*	.0	.0	.0	.0	1.6	
	22+	.1	.2	.4	*	.0	.0	.0	.0	.0	.0	.7	
	TOT %	1.2	1.5	.8	*	.1	.3	.0	.5	.0	.1	4.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.0	*	.1	.1	.0	.0	*	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.1	*	*	.0	.0	.0	.0	.2	
	TOT %	*	.0	*	.2	.1	*	.0	*	.0	.0	.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.4	.0	.2	.3	.1	.0	.0	.0	.0	.0	1.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	1.0	.3	.2	.1	*	.4	.3	.7	.0	.0	2.9	
	11-21	1.0	1.2	.7	.7	.2	.4	.1	.1	.0	.0	4.5	
	22+	*	.3	.7	1.2	.4	.3	*	*	.0	.0	3.2	
	TOT %	2.1	1.8	1.6	1.9	.7	1.3	.3	.8	.0	.0	10.6	
5<10	0-3	.0	.2	.0	.0	.0	.2	.2	*	.0	.3	1.0	
	4-10	2.2	1.6	.5	.6	1.1	.8	.8	1.4	.0	.0	9.0	
	11-21	2.6	4.1	2.0	.8	.8	1.8	.6	1.6	.0	.0	14.3	
	22+	.3	.7	.2	.6	.2	.6	.2	.1	.0	.0	2.8	
	TOT %	3.1	6.5	2.8	2.0	2.0	3.4	1.8	3.1	.0	.3	27.2	
10+	0-3	.4	.2	.0	.1	.1	.2	.1	*	.0	3.5	4.6	
	4-10	4.6	3.8	1.9	1.4	2.8	2.9	3.0	3.1	.0	.0	23.2	
	11-21	3.3	2.6	2.2	.3	2.2	4.6	4.0	3.3	.0	.0	24.8	
	22+	.6	.2	.1	*	.3	1.1	.5	.3	.0	.0	3.3	
	TOT %	11.0	6.7	4.1	2.0	5.6	8.8	7.6	6.8	.0	3.5	56.0	
TOT OBS												1067	
TOT PCT												19.8 16.4 9.5 6.5 8.7 13.8 9.8 11.3 .0 4.0 100.0	

OCTOBER

PERIOD: (PRIMARY) 1907-1974
(OVER-ALL) 1868-1974

AREA 0014 RAWSON
43.75 61.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <3/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	15.0	.0	.7	2.7	9.5	12.2	3.4	.7	.0	.0	44.2	55.8	147
06009	16.4	.0	.9	2.6	12.1	13.8	1.7	.0	.0	1.7	49.1	50.9	116
12015	5.6	.5	1.0	6.1	20.4	16.8	5.6	.0	.5	1.5	58.2	41.8	196
18021	4.4	.0	.9	3.1	10.2	15.1	3.1	.0	.0	1.3	38.2	61.8	225
TOT	62	1	6	26	91	101	25	1	1	8	322	362	684
PCT	9.1	.1	.9	3.8	13.3	14.8	3.7	.1	.1	1.2	47.1	52.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL
(GMT)							OBS
00003	5.5	1.2	2.3	16.4	23.8	50.8	286
06009	2.7	.8	.0	14.4	44.4	37.7	287
12015	6.6	.4	.7	6.2	25.2	60.9	274
18021	4.5	.0	1.4	6.3	16.8	70.8	291
TOT	32	6	12	113	293	600	1078
PCT	4.8	.8	1.1	10.7	27.2	55.7	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NH <3/8	TOTAL
(GMT)	<50YD	<1	<5	AND3+	AND 3+	OBS
00003	16.7	18.3	42.3	19.0	48.4	126
06009	18.6	20.6	29.4	24.3	46.1	102
12015	5.3	7.4	18.0	41.3	40.7	189
18021	4.2	5.6	15.8	25.6	58.6	215
TOT	39	70	139	182	311	632
PCT	9.3	11.1	22.0	28.8	49.2	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	PCT
									OBS	FREQ
70/74	.0	.4	.0	.0	.0	.0	.0	.0	1	.4
69/69	1.1	.4	.0	.0	.0	.0	.0	.0	4	1.4
65/64	.0	.0	.4	.7	1.1	.4	.0	.0	8	2.9
59/59	.0	.0	.7	.4	2.2	1.8	.7	.7	18	6.3
50/54	.0	.0	.7	1.4	2.5	5.4	12.9	4.3	76	27.3
49/49	.0	.0	.0	.4	3.2	15.3	15.5	14.4	136	48.9
40/44	.0	.0	.0	.0	1.8	4.0	3.2	3.6	33	12.6
TOTAL	3	2	5	7	29	77	91	64	278	100.0
PCT	1.1	.7	1.8	2.5	10.4	27.7	32.7	23.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
69/69	.0	.0	.0	.0	.4	.2	.5	.4	.0	.0
65/64	.2	.4	1.1	.0	.0	.4	.3	.5	.0	.0
59/59	1.7	.0	.0	.0	.2	.4	2.2	2.0	.0	.0
50/54	7.3	2.4	.9	.9	1.5	2.8	6.3	5.2	.0	.0
49/49	5.8	4.8	4.9	2.6	4.8	8.2	8.8	7.7	.0	1.4
40/44	.2	.8	2.0	.8	3.0	4.9	.0	.9	.0	.0
TOTAL	15.1	8.7	8.8	4.3	9.8	17.0	18.1	16.7	.0	1.4

TABLE 15

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

HR	MAX	95%	93%	90%	5%	1%	MIN	NEAN	TOTAL
(GMT)									OBS
00003	61	61	57	48	41	38	34	48.7	578
06009	60	57	54	48	41	34	34	47.7	435
12015	74	69	58	50	42	39	34	50.1	755
18021	73	66	60	51	43	39	34	51.4	449
TOT	74	62	58	49	42	37	34	49.5	2217

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	70-79	80-89	90-100	NEAN	TOTAL
(GMT)								OBS
00003	1.3	3.8	10.1	34.2	27.8	22.8	80	79
06009	.0	7.1	6.9	21.4	37.5	25.0	81	56
12015	1.3	3.8	11.5	21.8	30.8	30.8	81	78
18021	1.4	5.7	12.9	30.0	34.3	15.7	78	70
TOT	3	14	31	77	91	67	80	283

OCTOBER

PERIOD: (PRIMARY) 1907-1974
(OVER-ALL) 1868-1974

AREA 0014 RAWSON
43.75 61.8W

TABLE 17

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

AIR-SEA TMP DIF	33	37	41	45	49	53	57	61	65	TOT	N	WD
	30	40	44	48	52	56	60	64	68	FOG		FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.1	.5	.3	9	.0	.9
11/13	.0	.0	.0	.0	.0	.0	1.8	1.4	.0	32	.0	3.1
9/10	.0	.0	.0	.0	.0	2.3	2.7	.1	.0	33	.2	5.0
7/8	.0	.0	.0	.0	.0	5.7	2.3	.1	.0	89	.8	7.9
6	.0	.0	.0	.1	.7	2.7	.7	.0	.0	43	.3	3.9
5	.0	.0	.0	.1	4.7	4.3	.5	.0	.0	98	.8	8.8
4	.0	.0	.0	.6	3.0	1.9	.2	.0	.0	79	.6	7.1
3	.0	.0	.1	.8	6.1	1.6	.2	.0	.0	90	1.3	7.3
2	.0	.0	.0	3.6	4.3	.9	.2	.0	.0	94	1.5	7.7
1	.0	.0	.3	3.6	1.9	.8	.0	.0	.0	66	.7	5.8
0	.0	.0	.2	7.5	1.8	.6	.0	.0	.0	103	.7	9.4
-1	.0	.0	.8	5.4	.6	.2	.0	.0	.0	71	.8	6.3
-2	.0	.0	.9	3.2	.8	.0	.0	.0	.0	50	.0	4.9
-3	.0	.0	.8	2.7	.3	.0	.0	.0	.0	41	.2	3.8
-4	.0	.1	.9	2.3	.3	.0	.0	.0	.0	39	.1	3.7
-5	.0	.0	.9	1.0	.4	.0	.0	.0	.0	13	.2	2.0
-6	.0	.0	.1	.6	.0	.0	.0	.0	.0	7	.0	.7
-7/-8	.0	.1	1.2	.1	.0	.0	.0	.0	.0	14	.2	1.2
-9/-10	.0	.8	.1	.0	.0	.0	.0	.0	.0	7	.0	.7
-11/-12	.0	.1	.0	.0	.0	.0	.0	.0	.0	8	.0	.8
-14/-16	.9	.0	.0	.0	.0	.0	.0	.0	.0	9	.0	.9
TOTAL	18		64	324	287	213	89	21	4	1026	8.0	94.4
PCT	1.8	.9	6.2	31.6	28.0	20.8	8.7	2.0	.4	100.0	8.0	92.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

HGT	N					PCT	NE					PCT	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.8	.4	.0	.0	.0	1.2	.0	.4	.0	.0	.0	.0	.4
1-2	.0	2.8	.4	.0	.0	3.2	.0	2.1	.3	.0	.0	.0	2.3
3-4	.0	2.8	3.4	.3	.0	6.7	.0	1.2	3.2	.3	.0	.0	4.6
5-6	.0	.2	3.7	.2	.0	4.1	.0	.3	2.1	.2	.0	.0	2.9
7	.0	.0	1.2	.6	.0	1.8	.0	.0	2.3	.2	.0	.0	2.5
8-9	.0	.0	.3	.2	.0	.7	.0	.2	1.3	.6	.0	.0	2.1
10-11	.0	.0	.2	.0	.0	.2	.0	.0	.2	.3	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.1	11.3	1.3	.0	19.7	.0	4.1	9.8	1.8	.0	.0	13.4

HGT	E					PCT	SE					PCT	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.0	.4	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.4
1-2	.0	1.4	.4	.0	.0	1.7	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.4	1.3	.0	.0	1.9	.0	1.7	.3	.0	.0	.0	2.1
5-6	.0	.2	3.3	.0	.0	3.4	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	1.0	.8	.0	1.7	.0	.0	.1	.3	.0	.0	.3
8-9	.0	.0	.8	.2	.0	1.0	.0	.0	.2	.2	.0	.0	.8
10-11	.0	.0	.0	.3	.2	.3	.0	.0	.6	.9	.1	.0	1.3
12	.0	.0	.0	.2	.0	.2	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.2	.2	.0	.0	.0	.6	.4	.0	1.0
17-19	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	6.9	1.6	.4	11.1	.0	2.7	1.8	2.2	.7	.0	7.4

PERIOD: (OVER-ALL) 1963-1974

OCTOBER

AREA 0014 RAMSON
43.75 61.8M

TABLE 18 (CONT)

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

HGT	S							SM							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	1.2	.0	.0	.0	.0	1.2	.0	.3	.0	.0	.0	.0	.3	
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	2.0	.3	.0	.0	.0	2.4	
3-4	.0	1.1	1.1	.0	.0	.0	2.2	.0	1.9	3.4	.0	.0	.0	5.3	
5-6	.0	.2	.8	.8	.0	.0	1.8	.0	.0	2.4	.0	.0	.0	2.6	
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.9	.9	.0	.0	1.8	
8-9	.0	.0	.0	.0	.2	.0	.2	.0	.0	1.2	2.0	.2	.0	3.4	
10-11	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.4	.0	.0	.4	
12	.0	.0	.0	.8	.0	.0	.8	.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	.0	4.0	1.9	1.4	.2	.0	7.4	.0	4.1	8.9	3.7	.2	.0	16.5	

HGT	M							NM							PCT	TOTAL PCT
	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	.4	.0	.0	.0	.0	.7	.3	.4	.0	.0	.0	.0	.7	.7	
1-2	.0	1.0	.4	.0	.0	.0	1.4	.0	.7	.0	.0	.0	.0	.7	.7	
3-4	.0	1.4	1.2	.0	.0	.0	2.6	.0	.8	2.3	.0	.0	.0	3.0	3.0	
5-6	.0	.2	2.6	.2	.0	.0	3.0	.0	.0	1.9	.0	.0	.0	1.9	1.9	
7	.0	.0	1.4	.3	.0	.0	1.7	.0	.0	.2	.1	.0	.0	.2	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.3	.3	
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	3.0	5.7	.3	.0	.0	9.4	.3	1.9	3.9	.3	.0	.0	6.3	93.2	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.2	3.8	.0	.0	.0	.0	12.0	
1-2	.0	11.8	1.8	.0	.0	.0	13.6	
3-4	.0	11.0	18.4	.8	.0	.0	30.3	
5-6	.0	1.0	17.2	1.2	.0	.0	19.4	
7	.0	.0	8.8	3.2	.0	.0	10.0	
8-9	.0	.2	4.0	3.4	.6	.0	8.2	
10-11	.0	.7	1.2	1.8	.2	.0	3.4	
12	.0	.0	.0	1.6	.0	.0	1.6	
13-16	.0	.0	.0	.6	.6	.0	1.2	
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	8.2	28.1	49.5	12.6	1.4	.0	100.0	499

PERIOD: (OVER-ALL) 1951-1974

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	
<1	3.3	7.9	18.0	10.3	1.9	1.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	254	4
1-2	.0	1.0	2.1	3.6	5.1	5.8	2.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	117	7
3-4	.0	.3	2.2	2.6	2.7	.3	.3	1.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	6
5-6	.0	.0	.7	1.3	.3	.3	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	7
7-9	.0	.0	.3	.9	.3	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	7
10-11	.0	.0	.0	.9	.3	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	8
12-13	.0	.0	.0	.9	.7	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	8
15-19	4.1	1.4	3.3	2.2	1.4	1.0	1.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	4
TOTAL	43	63	196	128	76	58	39	13	10	1	0	0	0	0	0	0	0	0	0	0	583	5
PCT	7.4	10.8	26.0	22.0	13.0	9.9	6.0	2.2	1.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1967-1973
(OVER-ALL) 1960-1973

AREA 0014 RAMSON
43.73 62.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG FCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD PCPN	SMOKE HAZE	SP'AY BLWG	DUST SNOW
N	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	1.4	.0	.3	.3	97.0
NE	.0	.0	.8	.0	.0	.0	.0	.0	1.8	1.1	1.1	.0	.0	.0	95.3
E	8.6	.0	1.0	.0	.0	.0	.0	9.8	.0	.0	1.9	.0	.0	.0	88.5
SE	11.8	.0	9.2	.0	.0	.0	.0	20.9	.0	.0	6.5	.0	.0	.0	72.5
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	99.2
SW	.4	.2	.0	.0	.0	.0	.0	.8	1.6	.0	.5	.0	.0	.0	97.2
W	.5	.7	.0	.0	.0	.0	.0	1.2	.0	.8	.8	.0	.0	.0	97.7
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.4	.0	.0	.5	97.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.8	.1	.4	.0	.0	.0	.0	1.3	.7	.3	1.1	.0	.1	.1	96.5
TOT OBS:	1409														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG FCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
0000	.9	.0	.3	.0	.0	.0	.0	1.2	.3	.0	1.3	.0	.3	.3	96.3
0600	.8	.3	.8	.0	.0	.0	.0	1.9	1.4	.8	1.1	.0	.0	.3	94.8
1200	1.2	.3	.3	.0	.0	.0	.0	1.8	.9	.3	1.3	.0	.0	.0	95.4
1800	.3	.0	.0	.0	.0	.0	.0	.3	.3	.0	.5	.0	.0	.0	99.0
TOT PCT	.8	.1	.4	.0	.0	.0	.0	1.3	.7	.3	1.1	.0	.1	.1	96.5
TOT OBS:	1413														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	1.2	7.8	6.6	1.2	.2	.0	16.9	11.7	21.7	11.9	21.6	12.4	14.5	11.7	20.8	13.7		
NE	1.0	9.8	3.0	.4	.0	.0	10.2	9.6	14.7	9.7	14.6	8.2	6.1	6.8	11.3	9.5		
E	.4	1.9	1.4	.1	.0	.0	3.8	10.0	5.6	4.4	3.3	3.0	2.4	3.7	3.1	3.3		
SE	.4	1.7	1.4	.2	.1	.0	3.8	11.3	4.3	8.2	1.3	4.9	2.3	3.9	2.7	3.0		
S	.7	3.4	2.4	.7	.1	.1	7.6	11.9	7.7	9.4	2.3	8.3	6.2	11.5	5.1	13.5		
SW	.8	6.3	6.7	1.8	.4	.2	16.2	13.8	10.5	10.3	13.4	14.0	22.0	17.5	20.6	15.1		
W	.9	8.3	9.6	1.5	.3	.0	16.8	11.6	11.5	16.3	13.9	18.0	21.9	21.6	11.1	19.6		
NW	.9	7.6	6.8	2.4	.5	.0	18.1	13.1	15.6	26.0	17.9	22.8	18.3	19.4	12.3	18.9		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	6.5						6.5	.0	6.5	3.7	7.3	6.3	5.2	1.9	12.8	3.5		
TOT OBS	336	1208	838	232	42	8	2804	11.2	519	216	368	230	320	373	368	230		
TOT PCT	12.7	43.1	34.2	8.3	1.8	.3	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	4.3	8.8	3.1	.6	.0	16.9	11.7	16.8	17.9	13.9	14.1			
NE	3.8	3.2	1.1	.2	.0	10.2	9.6	13.3	12.0	6.4	10.6			
E	1.2	2.0	.5	.0	.0	3.8	10.0	3.2	4.0	2.9	3.2			
SE	1.1	2.0	.6	.1	.0	3.8	11.3	5.4	2.7	3.9	2.8			
S	2.3	3.2	1.5	.2	.1	7.6	11.9	8.2	4.9	8.4	8.3			
SW	3.4	7.8	3.9	.8	.3	16.2	13.8	10.4	14.9	20.1	13.5			
W	4.9	8.3	2.7	.9	.1	16.8	11.6	12.9	16.7	21.8	14.3			
NW	4.1	8.9	3.9	1.2	.1	18.1	13.1	18.6	19.7	18.8	13.0			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	6.5					6.5	.0	7.1	7.1	3.8	9.2			
TOT OBS	896	1291	488	113	16	2804	11.2	733	578	893	558			
TOT PCT	32.0	46.0	17.4	4.0	.6	100.0		100.0	100.0	100.0	100.0			

NOVEMBER

PERIOD: (PRIMARY) 1907-1973
(OVER-ALL) 1860-1973

AREA CD14 RAMSON
43.75 62.14

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	7.1	8.4	44.5	32.5	5.9	1.2	.4	10.4	100.0	735
0600Z	7.1	5.8	42.9	35.1	8.0	1.0	.3	11.1	100.0	578
1200Z	3.8	5.4	40.1	37.2	10.9	2.5	.2	12.6	100.0	893
1800Z	9.2	5.4	46.0	30.8	7.7	.8	.2	10.5	100.0	598
TOT	182	174	1208	958	232	42	.8	11.2		2804
PCT	6.5	6.2	43.1	34.2	8.3	1.5	.3	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	2.8	2.8	5.6	1.4	4.5	4.5
E	.7	.5	1.5	.1	4.5	4.5
SE	.1	.5	1.5	.2	5.6	5.6
S	1.8	.9	1.8	.4	3.9	3.9
SW	3.0	6.6	5.4	.7	3.6	3.6
W	3.8	3.9	4.3	1.0	3.7	3.7
NH	3.6	7.5	6.6	.8	4.4	4.4
VAR	.0	.0	.0	.0	.0	.0
CALM	4.0	.0	1.9	.2	3.0	3.0
TOT OBS	291	249	373	64	977	4.0
TOT PCT	29.8	25.8	38.2	6.6	100.0	

TABLE 6

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

WIND DIR	CEILING HEIGHTS (FT, NH >4/8)										NH <5/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+		
N	.0	.0	.1	.1	1.1	.7	2.1	.4	.5	.4	12.1	
NE	.0	.0	.1	.1	1.4	2.0	1.4	.0	.0	.1	7.3	
E	.0	.0	.0	.0	.3	.6	.4	.0	.0	.0	1.4	
SE	.0	.0	.1	.0	.1	.3	.2	.0	.0	.1	1.0	
S	.0	.0	.0	.0	.0	.6	.4	.0	.0	.0	3.8	
SW	.0	.0	.0	.1	.8	1.0	.9	.2	.1	.1	13.9	
W	.3	.0	.0	.1	.7	1.7	.9	.0	.2	.3	10.9	
NH	.1	.1	.0	.3	.9	2.8	1.3	.2	.1	.1	8.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.6	
TOT OBS	291	249	373	64	977	149	78	8	7	11	693	977
TOT PCT	.4	.1	.3	.6	5.7	15.3	8.1	.8	.7	1.1	66.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>8500	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
>9000	2.3	2.6	2.7	2.7	2.7	2.7	2.7	2.7
>9500	8.1	10.6	10.8	10.8	10.8	10.8	10.8	10.8
>2000	17.3	25.1	26.0	26.0	26.0	26.0	26.0	26.0
>1000	20.6	29.9	31.2	31.2	31.3	31.3	31.4	31.3
>600	21.0	30.6	31.8	31.8	31.9	31.9	32.0	32.1
>300	21.0	30.6	32.0	32.0	32.1	32.2	32.3	32.4
>150	21.1	30.9	32.1	32.1	32.2	32.3	32.4	32.5
>0	21.1	30.9	32.4	32.4	32.6	32.7	32.8	32.9
TOTAL	205	300	315	315	317	318	319	320

TOTAL NUMBER OF OBS: 972

PCT FREQ NH <5/8: 67.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
21.1	7.8	14.7	11.1	12.0	8.1	9.8	10.0	5.0	.4	1017

NOVEMBER

PERIOD: (PRIMARY) 1907-1973
(COVER-ALL) 1860-1973

AREA 0014 HANSON
43.75 62.1W

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	.0	.0	.2	.*	.0	.0	.1	.0	.0	.4	
	TOT S	.2	.0	.0	.2	.*	.0	.0	.1	.0	.0	.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.1	.1	.0	.0	.0	.0	.1	.0	.0	.2	
	TOT S	.0	.1	.1	.0	.0	.0	.0	.1	.0	.0	.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT S	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
2<3	PCP	.0	.0	.2	.2	.0	.0	.2	.0	.0	.0	.4	
	NO PCP	1.8	.7	.3	.2	.1	.7	.8	.6	.0	.1	4.8	
	TOT S	1.6	.7	.5	.5	.1	.7	.7	.6	.0	.1	5.5	
3<10	PCP	.0	.1	.2	.3	.0	.1	.0	.0	.0	.0	.4	
	NO PCP	5.8	4.2	1.2	.8	.9	3.4	3.4	4.7	.0	2.3	26.5	
	TOT S	5.8	4.2	1.4	.9	.9	3.4	3.4	4.7	.0	2.3	27.1	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	13.4	7.3	1.8	1.1	3.4	13.2	11.1	8.4	.0	8.8	66.7	
	TOT S	13.4	7.3	1.8	1.1	3.4	13.2	11.1	8.4	.0	8.8	66.7	
TOT OBS												1408	
TOT PCT		21.0	12.9	3.7	2.7	4.4	17.3	15.2	13.8	.0	9.2	100.0	

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.1	.*	.0	.0	.1	.0	.0	.3	
	11-21	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.2	.0	.0	.2	.*	.0	.0	.1	.0	.0	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.1	.1	.0	.0	.0	.0	.1	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
2<3	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2	
	4-10	.6	.3	.1	.2	.0	.1	.1	.3	.0	.0	1.8	
	11-21	.9	.4	.2	.1	.1	.6	.3	.2	.0	.0	3.1	
	22+	.1	.0	.1	.1	.0	.0	.1	.2	.0	.0	.3	
	TOT S	1.6	.7	.5	.5	.1	.7	.7	.7	.0	.1	5.6	
3<10	0-3	.3	.1	.1	.0	.0	.1	.1	.1	.0	2.2	3.1	
	4-10	2.4	2.2	.3	.3	.1	1.3	2.3	2.7	.0	.0	12.0	
	11-21	2.7	1.9	.9	.7	.7	1.5	.7	2.0	.0	.0	10.8	
	22+	.2	.3	.0	.0	.1	.3	.2	.0	.0	.0	1.1	
	TOT S	5.9	4.5	1.3	1.0	.9	3.4	3.4	4.8	.0	2.2	27.1	
10+	0-3	.9	.9	.1	.1	.1	.2	.4	.3	.0	6.7	9.8	
	4-10	7.4	4.7	1.2	.6	1.8	5.2	6.7	4.8	.0	.0	32.3	
	11-21	4.7	1.8	.8	.3	1.4	6.4	3.4	2.8	.0	.0	21.8	
	22+	.3	.1	.0	.0	.2	1.3	.3	.3	.0	.0	2.7	
	TOT S	13.3	7.5	2.0	1.2	3.5	13.0	10.9	8.4	.0	6.7	66.6	
TOT OBS												1439	
TOT PCT		20.9	12.9	4.0	2.9	4.6	17.1	15.0	14.0	.0	9.1	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1907-1973
(OVER-ALL) 1860-1973

AREA 0014 RAWSON
43.75 62.14

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3000	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999				
00003	.0	.0	.4	.0	6.5	22.0	8.5	.0	.4	1.6	40.2	39.8	246
06009	1.8	.6	.6	.6	3.7	9.8	8.0	.6	.6	.6	27.0	73.0	163
12015	.4	.0	.0	.4	4.8	13.7	9.6	.7	1.1	.4	31.0	69.0	271
18021	.0	.0	.3	1.2	6.5	15.3	5.9	.9	.6	1.5	30.3	69.7	323
TOT	4	1	3	6	36	150	79	8	7	11	325	678	1003
PCT	.4	.1	.3	.6	5.6	15.0	7.9	.8	.7	1.1	32.4	67.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.9	.0	.6	4.8	34.3	59.4	335
06009	.3	.3	.0	14.0	39.0	46.3	372
12015	.6	.6	.0	1.8	20.2	76.9	387
18021	.0	.0	.0	1.3	13.8	82.7	399
TOT	6	2	2	30	91	961	1443
PCT	.4	.2	.1	5.3	27.1	66.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <300	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.4	.8	6.7	35.4	57.9	240
06009	2.1	4.8	6.2	24.7	69.2	146
12015	.4	.4	1.1	30.2	68.7	260
18021	.0	.3	2.3	28.0	69.3	318
TOT	3	11	36	291	643	972
PCT	.5	1.1	3.7	29.9	66.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.6	.0	.0	.0	1	.6
60/64	.0	.0	.0	2.4	4.1	2.4	1.8	.0	22	13.0
55/59	.0	.0	.0	.6	4.1	8.3	10.1	8.3	53	31.4
50/54	.0	.0	.0	1.2	4.1	6.9	13.0	8.9	97	33.7
45/49	.0	.0	.0	.6	3.0	4.7	2.0	7.1	31	18.3
40/44	.0	.0	.0	.0	.0	1.2	.6	1.2	5	3.0
TOTAL	.0	.0	.0	.6	24	40	49	46	169	100.0
PCT	.0	.0	.0	4.7	15.4	23.7	29.0	27.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.0	.0	.1	.4	.0	.0	.0	.0	.0
60/64	2.7	.7	.0	.0	.6	2.2	3.1	3.7	.0	.0
55/59	8.0	4.6	.4	.7	1.0	1.0	8.7	6.3	.0	.0
50/54	6.1	2.3	.4	2.1	7.0	4.9	4.4	3.2	.0	1.2
45/49	3.0	1.2	2.3	1.2	2.8	4.3	3.0	.0	.0	.6
40/44	.0	1.3	.9	.0	.0	.6	.0	.0	.0	.0
TOTAL	19.7	10.3	4.1	4.1	11.8	10.3	19.2	15.4	.0	1.8

TABLE 15

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

HOUR (GMT)	MAX	99L	95L	50L	50H	15H	MIN	MEAN	TOTAL OBS
00003	73	68	68	54	46	42	40	55.0	724
06009	68	64	62	54	46	44	41	54.4	577
12015	79	68	64	53	48	47	40	55.8	852
18021	83	76	70	61	49	46	40	60.3	571
TOT	83	72	66	56	47	44	40	56.2	2724

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.4	11.1	33.3	31.1	20.0	80	45		
06009	.0	.0	11.1	11.1	30.6	47.2	96	36		
12015	.0	9.3	9.3	23.6	23.6	30.2	81	43		
18021	.0	4.3	20.3	21.7	30.4	13.2	77	46		
TOT	0	8	26	40	50	66	81	170		

NOVEMBER

PERIOD: (PRIMARY) 1907-1973
(OVER-ALL) 1860-1973

APEA 0014 RAWSON
43.75 62.1W

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	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	NO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2	.0	.1
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	4	.0	.3
17/19	.0	.0	.0	.0	.0	.0	.1	.2	.6	.1	.0	13	.0	.9
14/16	.0	.0	.0	.0	.1	1.1	1.5	.9	.0	.0	.0	45	.0	3.2
11/13	.0	.0	.0	.0	.5	1.4	3.6	1.0	.0	.0	.0	90	.1	6.4
9/10	.0	.0	.0	.0	.6	2.9	2.9	.4	.0	.0	.0	96	.0	6.9
7/8	.0	.0	.1	.0	1.3	8.6	1.7	.0	.0	.0	.0	164	.0	11.7
6	.0	.0	.1	.2	.9	3.4	.8	.0	.0	.0	.0	75	.0	5.4
5	.0	.1	.2	.7	4.1	5.5	.1	.0	.0	.0	.0	151	.1	10.6
4	.0	.1	.1	1.6	4.6	2.9	.1	.0	.0	.0	.0	133	.1	9.4
3	.0	.1	.3	1.1	3.6	.8	.0	.0	.0	.0	.0	84	.0	6.0
2	.0	.1	.5	2.0	4.6	1.0	.0	.0	.0	.0	.0	114	.1	8.1
1	.0	.1	1.1	3.0	2.6	.6	.0	.0	.0	.0	.0	103	.2	7.1
0	.1	.4	1.4	2.8	1.8	.5	.0	.0	.0	.0	.0	98	.1	6.9
-1	.1	.3	.6	2.4	1.1	.1	.0	.0	.0	.0	.0	65	.1	4.5
-2	.1	.1	1.3	2.0	1.2	.0	.0	.0	.0	.0	.0	65	.1	4.6
-3	.0	.2	1.0	1.3	.2	.0	.0	.0	.0	.0	.0	38	.2	2.5
-4	.1	.0	1.0	.4	.6	.0	.0	.0	.0	.0	.0	29	.0	2.1
-5	.0	.1	.6	.3	.0	.0	.0	.0	.0	.0	.0	14	.0	1.0
-6	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.3
-7/-8	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	10	.0	.7
-9/-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	5	20	128	251	390	145	44	16	4	3	1400	16	1304	
PCT	.4	1.9	9.1	17.9	27.7	27.9	10.4	3.1	1.1	.3	100.0	1.1	98.9	

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

HGT	N					PCT	NE					PCT
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
<1	1.3	1.4	.2	.0	.0	2.9	.9	1.3	.0	.0	.0	2.2
1-2	.3	3.3	.4	.0	.0	6.2	.2	3.4	.1	.0	.0	3.7
3-4	.1	3.4	3.3	.2	.0	7.2	.0	1.5	.9	.2	.0	2.6
5-6	.0	.4	2.7	.1	.0	3.2	.0	.3	1.1	.1	.0	1.5
7	.0	.0	1.4	.1	.0	1.5	.0	.1	.7	.1	.0	.9
8-9	.0	.1	.4	.2	.0	.7	.0	.0	.1	.1	.0	.2
10-11	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	10.7	9.2	.3	.0	22.3	1.1	6.3	3.0	.4	.0	11.0

HGT	E					PCT	SE					PCT
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.0	.2	.0	.0	.0	.2	.1	.0	.0	.0	.0	.1
1-2	.0	.3	.3	.0	.0	.6	.0	.4	.0	.0	.0	.5
3-4	.0	.0	.4	.0	.0	.4	.0	.3	.4	.0	.0	.6
5-6	.0	.0	.2	.0	.0	.2	.0	.0	.3	.0	.0	.3
7	.0	.0	.4	.0	.0	.4	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	1.3	.0	.0	2.7	.1	.7	.8	.0	.0	1.6

DECEMBER

PERIOD: (PRIMARY) 1966-1970
(OVER-ALL) 1864-1970

AREA 0014 RAWSON
43.7S 62.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG	DUST SNOW	NO SIG WEA
N	.7	.0	.0	.0	.0	.0	.0	.7	.7	.0	3.7	.7	.0	.0	.0	94.3
NE	.3	.0	.9	.0	.0	.0	.0	1.4	.1	.9	3.6	.0	.0	.0	.0	94.0
E	1.1	.0	.0	.0	.0	.0	.0	1.1	1.9	.0	14.3	.0	.0	.0	.0	82.3
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.4	.0	.0	.0	.0	87.6
S	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	5.7	.0	.0	.0	.0	92.0
SW	1.3	.4	.0	.0	.0	.0	.0	1.7	1.3	.4	2.8	.0	.0	.0	.0	93.8
W	.8	.0	.0	.0	.0	.0	.0	.8	.8	.0	.8	.0	.0	.0	.0	97.6
NW	.0	.0	1.2	.0	.0	.0	.0	1.2	.0	.0	3.8	.0	.0	.0	.0	95.0
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	.8	.0	12.7	.0	.0	.0	.0	86.5
TOT PCT	.6	.1	.3	.0	.0	.0	.0	.9	.9	.3	5.3	.1	.0	.0	.0	92.4
TOT OBS:	1164															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG	DUST SNOW	NO SIG WEA
0000	.7	.0	.0	.0	.0	.0	.0	.7	.7	.0	4.6	.4	.0	.0	.0	93.7
0600	1.0	.0	.7	.0	.0	.0	.0	1.7	1.0	1.0	3.4	.0	.0	.0	.0	91.0
1200	.7	.0	.3	.0	.0	.0	.0	1.0	.3	.0	7.0	.0	.0	.0	.0	91.6
1800	.0	.3	.0	.0	.0	.0	.0	.3	1.4	.0	3.1	.0	.0	.0	.0	93.2
TOT PCT	.6	.1	.3	.0	.0	.0	.0	.9	.9	.3	5.3	.1	.0	.0	.0	92.3
TOT OBS:	1176															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.8	5.5	3.9	1.2	.1	.0	13.1	12.2	16.3	17.9	14.2	11.7	12.2	11.8	9.1	11.0	
NE	.7	6.7	3.1	.6	.1	.0	13.2	11.0	21.5	12.8	18.6	8.9	7.8	5.8	17.1	10.3	
E	.3	3.9	1.2	.1	.0	.0	5.4	3.3	9.9	3.8	7.4	3.6	3.2	3.7	6.6	4.2	
SE	.4	2.9	1.3	.4	.0	.0	5.0	3.8	5.3	7.3	3.0	3.8	3.6	3.8	3.9	4.0	
S	.8	3.7	2.6	1.1	.3	.0	8.3	12.7	9.4	11.7	3.3	6.4	4.0	3.4	11.6	8.8	
SW	1.1	3.8	6.7	3.9	1.6	.1	19.1	16.7	13.3	10.3	18.6	18.7	25.9	20.1	22.7	17.5	
W	1.0	6.7	3.4	1.3	.6	.1	15.0	12.8	9.6	13.0	13.3	19.0	17.6	23.1	5.7	22.0	
NW	.6	7.1	4.9	1.0	.3	.0	13.9	11.3	10.5	19.8	9.2	22.3	13.3	17.1	4.9	18.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	6.9						6.9	.0	4.1	3.3	11.1	3.4	7.9	3.3	16.6	3.4	
TOT OBS	301	1012	777	226	70	7	2393	11.8	439	184	289	179	466	369	230	177	
TOT PCT	12.6	42.3	32.3	9.4	2.9	.3	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40					00	03	06	09	12	18	21
N	3.2	6.5	3.1	.3	.0	13.1	12.2	16.8	13.2	12.0	7.3	14.3	
NE	3.7	7.4	1.9	.1	.1	13.2	11.0	18.9	14.9	7.3	14.3		
E	2.6	2.3	.4	.0	.0	5.4	3.3	8.1	3.9	3.0	3.7		
SE	1.9	2.4	.6	.1	.0	5.0	3.8	5.9	4.1	4.9	5.2		
S	2.7	3.9	1.5	.3	.2	8.3	12.7	10.2	3.9	7.3	10.3		
SW	3.7	7.1	3.1	2.3	.6	19.1	16.7	12.4	18.6	23.3	20.7		
W	3.6	7.6	2.6	1.0	.2	15.0	12.8	10.4	13.0	20.1	11.9		
NW	4.2	6.7	2.4	.4	.1	13.9	11.3	13.2	14.2	16.2	10.2		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	6.9					6.9	.0	3.9	6.1	5.9	11.6		
TOT OBS	777	1049	420	116	31	2393	11.8	423	468	333	467		
TOT PCT	32.3	43.8	17.6	4.8	1.3	100.0		100.0	100.0	100.0	100.0		

DECEMBER

PERIOD: (PRIMARY) 1906-1970
(OVER-ALL) 1864-1970

AREA 0014 RAWSON
43.75 62.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT	TOTAL
		1-3	4-10	11-21	22-33	34-47	48+				FREQ	OBS
0000	3.9	7.1	47.4	32.7	7.2	1.3	.5	11.0	100.0	423
0600	6.1	6.2	39.7	34.4	8.8	2.8	.0	11.6	100.0	468
1200	5.9	5.1	40.5	32.3	11.3	4.6	.4	12.7	100.0	235
1800	11.6	4.3	41.3	30.4	9.9	2.4	.2	11.1	100.0	467
TOT	165	196	1012	777	226	70	7	11.8		2393
PCT	6.9	5.7	42.3	32.5	9.4	2.9	.3	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & 9		MEAN
				TOTAL	CLOUD COVER	
N	4.5	1.5	5.0	1.3		4.0
NE	6.7	5.8	4.5	1.4		3.6
E	2.7	1.3	2.4	1.8		4.2
SE	1.7	1.2	.7	.5		3.4
S	3.9	1.3	2.4	.4		3.3
SW	7.0	3.3	7.5	1.6		3.8
W	2.4	2.3	3.7	.7		4.1
NW	2.3	1.9	1.6	1.1		3.7
VAR	.0	.0	.0	.0		.0
CALM	4.1	2.3	2.8	2.1		3.8
TOT OBS	344	221	296	106	967	3.8
TOT PCT	39.6	22.9	30.6	11.0	100.0	

TABLE 6

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

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
.4	.0	.0	.0	.6	2.2	1.7	.1	.1	.2	4.9	
.7	.0	.0	.1	.6	1.6	1.5	.2	.0	.0	13.8	
1.0	.0	.0	.2	.3	.5	.8	.1	.1	.1	3.0	
.4	.0	.0	.0	.3	.1	.2	.0	.0	.1	3.1	
.2	.0	.0	.0	.4	.4	.7	.1	.0	.0	6.2	
.6	.1	.1	.2	1.8	2.1	1.9	.1	.4	.3	13.7	
.0	.1	.0	.1	1.2	1.4	.8	.0	.0	.1	3.4	
.2	.6	.0	.0	.3	.9	.3	.0	.1	.2	3.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1.0	.1	.1	.1	1.7	1.0	1.0	.1	.0	.1	6.9	
4.4	3	6	38	103	87	6	7	11	638	967	
4.6	.3	.2	.6	6.0	10.9	9.0	.6	.7	1.1	66.0	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)								
	>10	>8	>6	>4	>3	>2	>1/2	>1/4	>50YD
>6500	1.3	1.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9
>5000	2.1	2.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5
>3500	9.2	11.2	11.3	11.3	11.3	11.3	11.3	11.3	11.3
>2000	17.9	21.9	22.4	22.4	22.5	22.5	22.5	22.5	22.5
>1000	22.0	27.2	28.3	28.4	28.5	28.5	28.5	28.5	28.5
>500	22.2	27.7	28.9	29.0	29.1	29.1	29.1	29.1	29.1
>300	22.2	27.7	29.0	29.2	29.3	29.3	29.3	29.3	29.3
>150	22.4	28.0	29.3	29.3	29.6	29.6	29.6	29.6	29.6
> 0	22.5	28.2	30.0	30.2	30.4	31.2	34.1	34.2	34.2
TOTAL	216	278	291	293	293	302	330	331	331

TOTAL NUMBER OF OBS: 969

PCT FRG NH <5/8: 65.6

TABLE 7A

PERCENTAGE FRG OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
20.7	9.1	19.3	12.3	8.3	9.1	9.7	6.1	5.2	6.3	100.1

DECEMBER

PERIOD: (PRIMARY) 1906-1970
(OVER-ALL) 1864-1970

AREA 0014 RAWSON
43.7S 62.1W

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
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	NO PCP	.7	.5	.6	.3	.2	.4	.0	.0	.0	.9	3.0	
	TOT %	.2	.5	.6	.3	.2	.4	.0	.1	.0	.9	3.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2	
2<5	PCP	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	NO PCP	.5	.3	.3	.0	.2	.5	.4	.5	.0	.2	2.8	
	TOT %	.5	.3	.3	.0	.2	.8	.4	.5	.0	.2	3.1	
5<10	PCP	.0	.2	.1	.0	.0	.1	.0	.0	.0	.0	.3	
	NO PCP	2.0	3.4	1.8	.5	1.0	3.4	1.4	1.8	.0	1.2	16.5	
	TOT %	2.0	3.6	1.9	.5	1.0	3.5	1.4	1.8	.0	1.2	16.9	
10+	PCP	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	
	NO PCP	10.1	13.6	5.0	3.1	6.3	15.8	9.0	5.1	.0	8.5	76.4	
	TOT %	10.1	13.6	5.0	3.1	6.3	15.8	9.1	5.1	.0	8.5	76.6	
TOT OBS													1163
TOT PCT													12.8 18.0 7.9 4.0 7.6 20.6 10.9 7.4 .0 10.8 100.0

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.8	.9	
	4-10	.2	.4	.6	.2	.1	.4	*	.1	.0	.0	2.0	
	11-21	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.5	.6	.3	.2	.4	*	.1	.0	.0	.8	3.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.2
2<5	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	.3	
	4-10	.2	.2	.3	.0	.0	.2	.1	.5	.0	.0	1.3	
	11-21	.3	*	.1	.0	.1	.0	.3	.1	.0	.0	.8	
	22+	.0	.1	.0	.0	.1	.5	.0	.0	.0	.0	.8	
	TOT %	.4	.4	.4	.0	.1	.8	.4	.5	.0	.2	3.2	
5<10	0-3	.1	.0	.1	.0	.0	.0	.0	.0	.0	1.2	1.3	
	4-10	.9	1.4	1.5	.2	.4	.7	.5	1.3	.0	.0	6.9	
	11-21	.8	1.7	.3	.3	.3	1.4	.4	.5	.0	.0	5.4	
	22+	.1	.4	.0	.0	.4	1.4	.5	*	.0	.0	2.8	
	TOT %	1.9	3.5	1.9	.5	1.0	3.5	1.4	1.8	.0	1.2	16.6	
10+	0-3	.6	.5	.0	.1	.4	.5	.3	.1	.0	8.4	11.0	
	4-10	4.1	6.8	3.3	2.1	3.4	3.6	4.2	3.0	.0	.0	30.6	
	11-21	4.6	5.7	1.4	.8	1.8	7.1	4.2	1.8	.0	.0	27.5	
	22+	.7	.3	.1	*	.5	4.8	1.0	.3	.0	.0	7.8	
	TOT %	9.9	13.3	4.9	3.1	6.3	16.0	9.7	5.2	.0	8.4	76.8	
TOT OPS													1200
TOT PCT													12.5 17.6 7.7 3.9 7.7 20.7 11.6 7.6 .0 10.7 100.0

DECEMBER

PERIOD: (PRIMARY) 1906-1970
(OVER-ALL) 1864-1970

AREA 0014 RAWSON
43.7S 62.1W

TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	149	299	399	999	1999	3499	4999	6499	7999				
0003	3.2	.0	.0	.4	3.0	11.3	11.5	.8	.8	.4	32.0	68.0	253
0609	9.5	.5	.0	.0	4.8	9.3	9.5	.0	.5	.5	34.9	65.1	189
1215	5.5	.7	.4	1.1	4.7	12.0	7.7	.7	.4	.4	33.6	66.4	274
1821	1.1	.0	.4	.7	9.9	9.9	7.0	.7	1.1	2.9	33.8	66.2	272
TOT	44	3	2	6	58	107	87	6	7	11	331	657	988
PCT	4.5	.3	.2	.6	5.9	10.8	8.8	.6	.7	1.1	33.5	66.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
0000	2.7	.3	.0	3.4	18.0	78.5	294
0609	4.2	.0	.0	4.9	20.1	70.8	308
1215	4.5	.0	.0	1.9	14.5	79.0	310
1821	.7	.3	.7	3.0	14.0	81.3	299
TOT	37	2	2	40	202	928	1211
PCT	3.1	.2	.2	3.3	16.7	76.6	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NH <5/8	TOTAL
0000	3.2	3.2	4.8	28.3	66.9	251
0609	10.2	10.7	13.0	29.4	61.0	177
1215	5.5	6.6	8.3	29.4	66.2	272
1821	1.1	1.9	3.6	29.4	65.1	269
TOT	44	50	73	264	632	969
PCT	4.5	5.2	7.8	27.2	65.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
70/74	.0	.0	.0	.1	1.3	.0	.0	.0	2	1.3
65/69	.0	.0	.0	.7	1.3	2.6	1.3	.0	9	3.9
60/64	.0	.0	.0	.7	3.3	9.2	9.8	2.6	39	25.5
55/59	.0	.7	.0	1.3	7.2	10.3	17.6	7.8	69	45.1
50/54	.0	.0	.0	3.3	2.0	1.3	7.8	3.9	28	18.3
45/49	.0	.0	.0	.0	1.3	.0	.0	2.0	5	3.6
40/44	.0	.0	.0	.0	.0	.7	.0	.0	1	.7
TOTAL	0	1	0	8	28	37	36	25	153	100.0
PCT	.0	.7	.0	5.9	16.3	24.2	36.6	16.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.0	.0	1.1	.2	.0	.0
65/69	1.0	2.1	.0	.0	.5	.8	.7	.8	.0	.0
60/64	9.0	.8	.0	.7	.0	2.8	4.7	6.9	.0	.7
55/59	4.4	3.4	3.6	2.0	2.5	10.1	13.4	5.1	.0	.7
50/54	1.0	1.3	.0	1.1	5.1	3.4	4.1	1.6	.0	.7
45/49	.7	.0	.0	.0	.7	.8	1.1	.0	.0	.0
40/44	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0
TOTAL	16.0	7.7	3.6	3.8	9.3	18.0	25.2	14.5	.0	2.0

TABLE 15

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

HR	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL
0000	77	70	66	58	49	45	43	57.8	610
0609	72	68	64	57	49	46	45	56.9	472
1215	84	73	68	59	50	47	42	59.1	804
1821	81	77	73	63	51	47	46	62.4	450
TOT	84	74	69	59	50	46	42	59.0	2336

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
0000	.0	6.7	19.3	24.4	10.0	15.6			79	45
0609	.0	.0	14.7	29.4	5.3	20.8			81	34
1215	.0	9.3	9.3	23.3	7.2	20.5			80	43
1821	.0	8.3	27.8	16.7	30.6	16.7			77	36
TOT	0	10	25	37	37	29			79	158

DECEMBER

PERIOD: (PRIMARY) 1906-1970
(OVER-ALL) 1864-1970

AREA 0014 RAWSON
43.75 62.1W

TABLE 17

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

AIR-SEA TMP DIF	41	45	49	53	57	61	65	69	73	77	81	TOT	W FOG	WO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
23/29	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.2	3	.0	.3
20/22	.0	.0	.0	.0	.0	.0	.0	.1	.2	.3	.1	8	.1	.5
17/19	.0	.0	.0	.0	.0	.1	.1	.0	.6	.3	.0	13	.0	1.1
14/16	.0	.0	.0	.0	.0	.0	.3	1.6	1.5	.1	.0	43	.2	3.3
11/13	.0	.0	.0	.0	.0	.1	1.9	2.9	.3	.0	.0	60	.2	5.0
9/10	.0	.0	.0	.0	.0	1.3	3.8	1.3	.0	.0	.0	74	.2	6.2
7/8	.0	.0	.0	.0	.4	4.8	3.4	.5	.0	.0	.0	108	.3	9.0
6	.0	.0	.0	.0	.0	3.4	1.6	.1	.0	.0	.0	39	.1	4.9
5	.0	.0	.0	.1	1.0	7.8	2.8	.0	.0	.0	.0	131	.8	10.6
4	.0	.0	.0	.4	2.8	4.9	.6	.0	.0	.0	.0	101	.3	8.3
3	.0	.0	.2	.3	2.6	2.9	.2	.0	.0	.0	.0	72	.4	5.8
2	.0	.0	.3	.2	3.1	4.0	.1	.0	.0	.0	.0	88	.7	6.9
1	.0	.1	.1	1.3	3.9	1.8	.0	.0	.7	.0	.0	83	.6	6.6
0	.0	.0	.1	1.8	3.6	1.0	.0	.0	.0	.0	.0	76	.4	6.1
-1	.0	.0	.3	1.6	1.3	.2	.0	.0	.0	.0	.0	38	.3	2.9
-2	.0	.1	.3	1.8	2.3	.2	.0	.0	.0	.0	.0	56	.3	4.6
-3	.0	.0	.3	1.5	.6	.0	.0	.0	.0	.0	.0	28	.0	2.4
-4	.0	.0	.3	1.5	.2	.0	.0	.0	.0	.0	.0	25	.2	2.0
-5	.0	.0	1.0	1.6	.1	.0	.0	.0	.0	.0	.0	31	.2	2.5
-6	.1	.0	.7	.3	.0	.0	.0	.0	.0	.0	.0	13	.0	1.1
-7/-3	.0	.3	1.9	.3	.0	.0	.0	.0	.0	.0	.0	31	.3	2.4
-9/-10	.0	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	7	.0	.6
-11/-13	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	4	.1	.3
-14/-16	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
-17/-19	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	3	10	74	180	192	375	170	75	26	12	4	1155	64	1091
PCT	.3	.9	6.4	13.0	21.8	32.3	14.7	6.3	2.6	1.0	.3	100.0	5.3	94.3

PERIOD: (OVER-ALL) 1903-1970

TABLE 18

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

HGT	N					PCT	NE					PCT	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.2	1.2	.2	.0	.0	1.6	.3	2.2	.1	.0	.0	.0	2.8
1-2	.2	2.0	1.2	.0	.0	3.4	.6	4.3	1.3	.0	.0	.0	5.9
3-4	.0	.8	2.4	.3	.0	3.4	.0	.9	4.1	.2	.0	.0	3.2
5-6	.0	.1	.8	.2	.0	1.1	.0	.4	1.7	.0	.0	.0	2.0
7	.0	.2	.6	.1	.0	.9	.0	.6	.8	.0	.0	.0	.9
8-9	.0	.0	.1	.1	.0	.2	.0	.0	.4	.3	.0	.0	.6
10-11	.0	.0	.4	.0	.0	.4	.0	.0	.2	.2	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.3	5.7	.7	.0	11.2	.3	8.1	3.6	.8	.1	.0	13.2

HGT	E					PCT	SE					PCT	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.0	1.9	.0	.0	.0	1.9	.1	.4	.0	.0	.0	.0	.3
1-2	.0	3.6	.9	.0	.0	4.1	.0	1.1	.4	.0	.0	.0	1.3
3-4	.0	1.2	.8	.0	.0	2.0	.0	.3	.3	.0	.0	.0	1.0
5-6	.0	.0	.2	.0	.0	.2	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.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
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.7	1.8	.0	.0	8.5	.1	2.1	1.1	.0	.0	.0	3.3

PERIOD: (OVER-ALL) 1963-1970

DECEMBER

AREA 0.14 RANSON
43.75 62.1W

TABLE 18 (CONT)

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

HGT	S							PCT	SW						
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+		
<1	.3	1.3	.0	.0	.0	.0	1.6	.3	1.3	.0	.0	.0	.0	1.6	
1-2	.1	1.1	.1	.0	.0	.0	1.3	.*	1.8	.4	.0	.0	.0	2.1	
3-4	.0	.8	.6	.0	.0	.0	1.4	.*	1.1	1.3	.2	.0	.0	3.0	
5-6	.0	.1	.8	.0	.0	.0	.9	.0	.4	2.9	.2	.0	.0	3.4	
7	.0	.0	.4	.5	.0	.0	.8	.0	.*	2.0	.8	.0	.0	2.8	
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	1.0	1.0	.2	.0	2.1	
10-11	.0	.0	.5	.3	.1	.0	.9	.0	.0	1.2	1.8	.1	.0	3.1	
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.8	.2	.0	1.0	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.8	.2	.0	1.0	
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	1.2	.8	.0	2.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.*	.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	3.3	2.3	1.1	.1	.0	7.3	.4	4.6	9.2	6.0	1.7	.0	21.8	

HGT	M							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.0	.1	.1	.0	.0	.0	.2	.1	1.1	.*	.0	.0	.0	1.2		
1-2	.0	1.7	.8	.0	.0	.0	2.5	.0	1.2	.3	.0	.0	.0	1.3		
3-4	.2	1.3	.9	.1	.0	.0	2.3	.0	.8	.3	.*	.0	.0	1.4		
5-6	.0	.1	1.3	.1	.0	.0	1.7	.0	.0	.6	.0	.0	.0	.6		
7	.0	.1	.8	.2	.0	.0	1.0	.0	.0	.3	.*	.0	.0	.3		
8-9	.0	.0	.2	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.1	.2	.4	.0	.0	.8	.0	.0	.2	.*	.0	.0	.3		
12	.0	.0	.0	.1	.0	.0	.1	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.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	3.4	4.3	.9	.6	.0	9.6	.1	3.1	2.0	.1	.0	.0	3.4 85.2		

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	16.3	9.4	.3	.0	.0	.0	26.2	
1-2	.4	17.0	3.0	.0	.0	.0	22.4	
3-4	.2	7.4	11.4	.8	.0	.0	19.8	
5-6	.0	1.1	8.7	.3	.0	.0	10.3	
7	.0	.4	3.0	1.6	.0	.0	6.9	
8-9	.0	.0	1.9	1.3	.4	.0	3.7	
10-11	.0	.1	2.8	2.8	.2	.0	3.9	
12	.0	.0	.2	.7	.2	.0	1.2	
13-16	.0	.0	.0	1.3	1.3	.0	2.8	
17-19	.0	.0	.0	.2	.2	.0	.3	
20-22	.0	.0	.0	.1	.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	16.9	35.4	35.4	9.7	2.3	.0	100.0	827

PERIOD: (OVER-ALL) 1994-1970

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	19.8	16.4	6.3	2.4	1.3	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	443	3
6-7	.0	.8	1.3	3.2	4.6	2.1	3.8	.3	1.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	183	8
8-9	.0	.4	.1	1.7	1.7	.3	1.2	1.0	1.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	79	9
10-11	.0	.2	.9	.2	.3	.2	.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	6
12-13	.0	.0	2.3	.8	.2	.2	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	3
>13	.0	.0	.0	.9	1.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	7
INDET	11.6	1.3	1.7	.6	.9	.1	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	134	1
TOTAL	113	208	212	129	108	44	38	18	28	3	2	0	0	0	0	0	0	0	0	0	923	4
PCT	12.2	22.5	22.9	13.9	11.7	4.8	6.3	1.9	3.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1903-1976
(OVER-ALL) 1854-1976

ANNUAL

AREA 0014 RAWSON
43.75 61.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG W/ PCPN	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	.7	.2	.3	.0	.0	.0	.0	1.2	1.0	.9	7.6	.1	1.4	.4	.0	87.8
NE	2.4	.6	3.9	.0	.0	.0	.0	6.8	.8	.7	11.1	.0	1.0	.0	.0	79.6
E	5.7	1.7	2.7	.0	.0	.0	.0	10.1	1.3	.9	17.8	.0	.2	.0	.0	69.8
SE	8.0	.8	1.8	.0	.0	.0	.0	10.6	4.4	.2	8.0	1.2	.0	.0	.0	77.6
S	4.2	1.3	.7	.0	.0	.0	.0	6.1	2.3	.2	3.3	.1	.1	.0	.0	87.9
SW	1.9	2.0	2.0	.0	.0	.0	.4	6.4	2.4	1.0	4.3	.0	.1	.0	.0	86.0
W	.9	.3	.2	.0	.0	.0	.6	2.0	1.1	1.2	3.5	.0	.4	.0	.0	91.9
NW	.6	.5	.2	.0	.0	.0	.0	1.3	.5	.5	5.9	.2	.6	.0	.0	90.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1	.0	.7	.0	.0	.0	.0	.8	.2	.2	13.2	1.7	.0	.0	.0	75.6
TOT PCT	2.0	.8	.4	.0	.0	.0	.2	3.7	1.3	.8	6.2	.1	.4	.0	.0	87.3
TOT OBS	7172															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG W/ PCPN	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
0000	1.1	.7	.3	.0	.0	.0	.1	2.2	1.3	1.5	7.2	.3	.6	.0	.0	87.0
0600	2.3	.7	1.0	.0	.0	.0	.3	4.6	1.4	1.7	4.6	.2	.0	.0	.0	87.7
1200	2.6	.5	.8	.0	.0	.0	.1	4.1	1.3	.2	7.4	.0	.8	.0	.0	86.1
1800	1.7	1.4	1.0	.0	.0	.0	.0	4.0	1.6	.0	6.2	.1	.7	.0	.0	87.4
TOT PCT	1.9	.8	.7	.0	.0	.0	.2	3.7	1.3	.8	6.5	.1	.6	.0	.0	87.1
TOT OBS	7270															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.9	3.0	3.8	2.1	.3	.0		14.1	13.9	15.1	13.7	20.7	12.8	14.0	12.4	18.4	12.2
NE	.7	3.3	2.7	.4	.0	.0		7.4	10.8	9.6	6.6	9.0	5.4	3.8	6.3	9.2	6.4
E	.5	2.0	1.2	.3	.1	.0		4.0	10.5	4.9	3.6	3.9	3.7	3.7	3.3	4.7	4.1
SE	.6	2.4	1.9	.6	.2	.1		5.8	12.7	6.2	6.3	3.6	6.3	3.7	6.1	4.3	6.3
S	.0	3.6	3.2	1.4	.6	.2		9.9	14.7	10.8	10.0	8.2	8.8	9.7	10.4	9.6	10.4
SW	1.1	3.3	6.1	3.2	1.3	.4		17.4	16.7	13.8	13.3	17.1	13.9	19.0	17.7	16.4	18.3
W	1.1	6.6	7.0	2.6	.8	.1		18.1	14.1	15.6	17.8	13.7	19.8	18.9	20.8	19.1	20.1
NW	.7	6.4	8.1	3.5	.7	.0		19.7	14.6	18.2	23.3	19.2	24.0	20.0	20.6	15.4	19.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6							3.6	.0	3.8	3.4	4.3	3.3	3.2	2.3	3.0	2.6
TOT OBS							23946		13.8	4031	2577	1614	2589	4144	4613	1736	2622
TOT PCT	10.3	34.9	36.0	14.1	3.9	.8		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	2.9	6.3	4.0	.8	.1		14.1	13.9	14.7	15.1	13.2	13.9
NE	2.3	3.7	1.2	.2	.0		7.4	10.8	8.6	7.7	6.1	7.6
E	1.3	1.8	.6	.1	.0		4.0	10.5	4.9	4.1	3.3	4.3
SE	1.8	2.3	1.2	.4	.1		5.8	12.7	6.2	5.6	5.9	5.6
S	2.6	3.8	2.2	.9	.4		9.9	14.7	10.4	8.4	10.0	10.1
SW	3.3	6.9	4.7	2.0	.9		17.4	16.7	13.8	13.9	18.4	19.6
W	3.8	8.0	4.4	1.6	.3		18.1	14.1	16.4	18.0	19.8	17.7
NW	3.4	8.5	5.8	1.8	.2		19.7	14.6	19.4	21.1	20.2	17.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.6						3.6	.0	3.7	4.1	2.8	4.2
TOT OBS						23946		13.8	6628	4203	8757	4358
TOT PCT	25.1	41.0	24.1	7.8	1.9		100.0		100.0	100.0	100.0	100.0

ANNUAL

PERIOD: (PRIMARY) 1903-1976
(OVER-ALL) 1854-1976

AREA 0014 RAWSON
43.75 61.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00003	3.7	7.9	36.3	35.0	12.7	3.4	.9	13.3	100.0	6628
06009	4.1	6.7	34.7	35.1	14.6	4.1	.7	13.9	100.0	4203
12015	2.8	6.3	34.1	36.3	15.4	4.4	.7	14.3	100.0	8757
18021	4.2	5.8	34.4	37.7	13.6	3.7	.6	13.7	100.0	4358
TOT								13.8		23946
PCT	3.6	6.7	34.9	36.0	14.1	3.9	.8	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.6	3.6	6.3	3.1		4.1
NE	2.3	1.6	2.4	2.7		5.0
E	1.2	.4	1.1	1.6		5.3
SE	.7	.3	1.2	1.5		5.2
S	2.3	1.9	3.8	2.0		4.7
SW	5.5	4.6	5.4	1.8		3.8
W	6.3	2.8	4.3	1.3		3.4
NW	7.3	3.0	4.7	2.1		3.6
VAR	.0	.0	.0	.0		.0
CALM	1.6	.8	.9	.6		3.9
TOT					5228	4.1
TOT PCT	33.9	19.1	30.1	16.9	100.0	

TABLE 6

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

WIND DIR	CEILING HEIGHTS (FT, NH >4/8)										NH <5/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+		
	149	299	599	999	1999	3499	4999	6499	7999		5228	
N	.4	*	.1	.2	1.8	2.1	1.1	.1	.2	.4	13.1	
NE	.5	*	.2	.2	1.2	1.0	.6	*	.1	.1	5.1	
E	.3	.0	.0	.4	.9	.4	.2	*	*	.1	2.0	
SE	.2	.0	*	.3	.9	.5	.2	*	*	.2	1.8	
S	.2	.0	.1	.5	1.5	1.2	.8	.3	.1	.1	3.3	
SW	.3	*	.5	.4	1.0	1.6	.9	.2	.2	.2	12.2	
W	.4	*	.1	.6	.8	1.1	.4	.2	.2	.2	11.0	
NW	.1	.1	.1	.2	1.1	1.3	.6	.2	.1	.5	12.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	*	*	.1	.1	.5	.2	*	.1	.1	2.7	
TOT	2.2	.1	1.0	2.9	9.2	9.6	5.0	1.1	1.1	1.9	65.9	
TOT PCT											100.0	

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	2.1	2.8	2.9	2.9	2.9	3.0	3.0	3.0
>3000	2.9	3.6	4.0	4.0	4.0	4.0	4.0	4.0
>1500	6.6	8.8	8.9	8.9	8.9	9.0	9.0	9.0
>1000	13.3	17.8	18.4	18.5	18.5	18.6	18.6	18.6
>500	19.2	26.4	27.6	27.7	27.8	27.9	27.9	27.9
>100	21.2	29.1	30.4	30.5	30.7	30.7	30.8	30.8
>50	21.7	29.7	31.3	31.5	31.7	31.8	31.8	31.8
>15	21.7	29.8	31.4	31.6	31.8	31.9	31.9	31.9
>0	21.9	30.1	32.1	32.6	32.9	33.3	34.1	34.2

TOTAL NUMBER OF OBS: 5233

PCT FREQ NH <5/8: 65.9

TABLE 7A

PERCENTAGE FREQ OF (DN) CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
26.2	9.3	12.0	9.7	8.1	6.3	8.2	7.6	10.7	2.0	5505

PERIOD: (PRIMARY) 1903-1976
(OVER-ALL) 1854-1976

ANNUAL

AREA 0014 RAWSON
43.75 61.2W

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	*	*	*	.0	*	.0	.0	*	
	NO PCP	.6	.4	.2	.1	*	.2	.1	.1	.0	.2	1.7	
	TOT %	.6	.4	.2	.1	*	.2	.1	.1	.0	.2	1.8	
1/2<1	PCP	.0	.0	.0	.1	*	.1	.0	.0	.0	.0	.1	
	NO PCP	.2	*	*	.1	.1	*	*	.2	.0	.0	.5	
	TOT %	.2	*	*	.1	.1	.1	*	.2	.0	.0	.7	
1<2	PCP	*	.1	*	*	.0	*	.0	*	.0	.0	.3	
	NO PCP	.2	*	*	.1	*	*	*	.1	.0	*	.6	
	TOT %	.2	.1	*	.1	*	.1	*	.1	.0	*	.9	
2<5	PCP	*	.2	.1	.2	.1	.1	.1	*	.0	.0	.4	
	NO PCP	1.1	.3	.2	.2	.2	.3	.2	.4	.0	.1	3.1	
	TOT %	1.1	.5	.3	.4	.3	.4	.3	.4	.0	.1	3.9	
5<10	PCP	.2	.1	.3	.1	.3	.5	*	.1	.0	*	1.7	
	NO PCP	6.0	2.7	1.2	.9	1.8	3.2	4.1	5.1	.0	.8	25.6	
	TOT %	6.3	2.8	1.4	1.0	2.1	3.7	4.1	5.3	.0	.8	27.3	
10+	PCP	*	*	.1	.1	.2	.2	.1	.0	.0	.0	.7	
	NO PCP	12.0	5.5	2.5	2.3	6.4	11.7	10.3	10.9	.0	2.9	64.7	
	TOT %	12.1	5.6	2.5	2.4	6.6	11.9	10.6	10.9	.0	2.9	65.5	
TOT OBS													7118
TOT PCT													20.3 9.4 4.6 4.1 9.1 16.4 15.2 17.0 .0 3.8 100.0

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	*	.0	.1	.0	*	.0	.1	.3	
	4-10	.2	.2	.1	*	*	.1	*	.1	.0	.0	.9	
	11-21	.2	.2	*	*	*	*	.0	*	.0	.0	.3	
	22+	.1	*	*	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.3	.4	.2	.1	*	.2	*	.2	.0	.1	1.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	*	*	.1	.0	*	.1	.0	.0	.3	
	11-21	.1	.0	.0	.1	*	*	.1	*	.0	.0	.3	
	22+	*	.0	.0	*	*	*	*	.0	.0	.0	.1	
	TOT %	.2	*	*	.1	.1	.1	.1	.2	.0	.0	.7	
1<2	0-3	*	.0	*	*	.0	.0	.0	.0	.0	*	.1	
	4-10	.1	.1	.0	*	*	*	*	.1	.0	.0	.4	
	11-21	*	*	*	*	*	*	.0	*	.0	.0	.1	
	22+	*	*	*	*	.0	*	*	*	.0	.0	.2	
	TOT %	.2	.1	.1	.1	*	.1	*	.1	.0	.0	.9	
2<5	0-3	*	*	*	*	.0	.0	.0	.1	.0	.1	.3	
	4-10	.4	.2	.1	.2	*	.1	.2	.2	.0	.0	1.4	
	11-21	.6	.4	.2	.2	.1	.2	.2	.2	.0	.0	1.9	
	22+	.1	.1	.1	.1	.2	.2	.2	.1	.0	.0	1.0	
	TOT %	1.2	.7	.5	.5	.3	.5	.3	.5	.0	.1	4.6	
5<10	0-3	.2	.2	.1	.1	.1	.1	.1	.1	.0	.7	1.6	
	4-10	1.8	1.2	.8	.4	.4	.9	1.3	2.0	.0	.0	8.8	
	11-21	2.3	1.1	.4	.3	1.1	1.5	1.8	2.1	.0	.0	10.7	
	22+	1.5	.2	*	.1	.9	1.2	.5	.7	.0	.0	4.8	
	TOT %	5.8	2.7	1.3	1.0	2.1	3.7	3.7	4.9	.0	.7	25.9	
10+	0-3	.3	.4	.2	.1	.2	.3	.4	.1	.0	3.0	5.0	
	4-10	3.9	2.7	1.3	1.3	2.4	3.3	3.9	3.7	.0	.0	22.0	
	11-21	3.2	2.4	1.0	.9	3.0	6.0	4.8	5.4	.0	.0	28.7	
	22+	1.7	.2	*	.1	1.6	3.0	1.9	1.3	.0	.0	9.8	
	TOT %	11.1	5.8	2.5	2.4	7.2	12.5	11.0	10.6	.0	3.0	66.1	
TOT OBS													7749
TOT PCT													18.9 9.7 4.5 4.2 9.7 17.1 15.4 16.4 .0 4.0 100.0

ANNUAL

PERIOD: (PRIMARY) 1903-1976
(OVER-ALL) 1854-1976

-REA 0014 RAWSON
49.75 61.2W

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000Z	149	299	599	999	1999	3499	4999	6499	7999				
0000Z	2.5	.0	1.2	2.0	3.1	4.8	6.4	8.0	9.7	11.4	32.3	67.7	1333
0600Z	3.1	.1	.9	2.9	6.8	7.7	8.2	.8	.9	1.7	30.1	69.9	995
1201Z	2.2	.2	.7	2.3	12.0	9.6	4.9	.9	1.5	.6	35.8	64.2	1479
1802Z	1.7	.2	1.1	2.1	3.4	9.0	5.3	.8	1.1	2.6	34.0	66.0	1595
TOT													5402
PCT	2.2	.1	1.0	2.8	9.0	7.4	4.8	1.1	1.0	1.6	32.3	66.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000Z	1.3	.9	.8	5.5	28.7	62.8	1977
0600Z	1.0	.5	.6	6.4	31.9	38.3	1815
1201Z	2.7	1.0	.9	3.5	25.4	66.6	2056
1802Z	2.2	.6	1.1	3.1	17.8	75.1	2000
TOT							7840
PCT	1.6	.8	.9	4.6	26.1	85.8	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 <500	<600 <1	<1000 (5)	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
0000Z	2.7	4.0	9.5	25.6	64.9	1286
0600Z	2.4	3.0	10.0	23.0	67.0	926
1201Z	2.2	3.3	8.3	26.1	62.3	1432
1802Z	1.7	3.4	8.0	24.7	65.1	1564
TOT						5233
PCT	2.3	3.7	8.7	26.4	64.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.0	.0	.0	.0		.0
75/79	.0	.0	.0	.1	.0	.0	.0	.0		.1
70/74	.0	.0	.0	.1	.3	.1	.1	.0		.3
65/69	.1	.0	.0	.3	.6	1.3	.9	.3		2.5
60/64	.0	.0	.2	.8	2.4	3.7	5.2	2.5		14.7
55/59	.0	.1	.1	.8	3.0	4.6	7.4	3.9		19.9
50/54	.0	.0	.1	1.1	2.4	3.9	9.0	4.3		21.7
45/49	.0	.0	.0	.2	1.3	7.7	9.6	8.4		27.4
40/44	.0	.0	.0	.3	1.4	2.5	3.1	4.1		11.6
35/39	.0	.0	.0	.0	.0	.2	.3	.2		.6
TOTAL									2170	100.0
PCT	.1	.1	.5	3.0	11.5	24.6	35.5	23.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
75/79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
70/74	.1	.1	.0	.0	.0	.1	.1	.2	.0	.0
65/69	.1	.0	.1	.1	.4	.3	.4	.8	.0	.0
60/64	1.0	.5	.1	.1	.4	.3	.4	.8	.0	.0
55/59	3.4	1.1	.6	.4	.6	2.1	3.1	3.2	.0	.2
50/54	3.9	1.5	.7	.9	1.8	3.3	4.0	3.3	.0	.4
45/49	4.8	1.7	.9	.6	2.7	3.2	3.6	3.9	.0	.4
40/44	3.2	1.7	1.2	1.0	2.2	4.1	5.0	6.4	.0	.5
35/39	.9	1.1	.7	.8	1.6	2.3	2.3	1.6	.0	.3
TOTAL	.0	.1	.0	.1	.3	.1	.1	.0	.0	.0
PCT	19.4	7.6	4.2	3.9	9.7	18.5	18.5	19.5	.0	1.7

TABLE 15

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

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	78	62	59	52	45	42	30	52.1	6509
0600Z	73	60	58	52	44	42	31	52.3	4188
1201Z	84	64	60	53	46	43	31	52.9	8425
1802Z	83	67	63	55	47	44	31	55.7	4158
TOT	84	64	60	52	45	42	30	53.1	23280

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.1	4.9	9.6	24.3	35.6	25.6	82	617
0600Z	.0	2.6	10.2	25.1	34.0	27.8	82	459
1201Z	.1	4.5	9.9	25.5	34.1	25.8	81	599
1802Z	.1	4.7	15.0	24.2	27.5	18.5	80	556
TOT	.3	9.7	25.1	59.0	78.9	54.1	81	2231

PERIOD: (PRIMARY) 1903-1976
(OVER-ALL) 1854-1976

ANNUAL

AREA 0014 RANSON
43.75 61.2W

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 DIP	33	37	41	45	49	53	57	61	65	69	73	77	81	TOT	N	NO
	36	40	44	48	52	56	60	64	68	72	76	80	84		FOG	FOG
25/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	3	.0	*
23/23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	5	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	16	*	.1
17/19	.0	.0	.0	.0	.0	.0	.0	*	*	*	.1	.1	.0	35	.0	.2
14/16	.0	.0	.0	.0	.0	.0	.1	.1	.1	.3	.3	.1	.0	117	*	.9
11/13	.0	.0	.0	.0	.0	.2	.3	.3	.5	.5	.2	*	.0	240	*	2.0
9/10	.0	.0	.0	.0	.1	.3	.3	.4	.6	.5	.2	*	.0	300	.1	2.4
7/8	.0	.0	.0	.1	.3	1.0	.6	1.4	1.0	.5	.1	.0	.0	524	.3	4.8
6	.0	.0	.0	.2	.6	.7	.2	.8	.7	.2	.0	*	.0	294	.2	3.3
5	.0	.0	.0	.7	2.0	.8	.9	1.6	1.2	.3	.0	.0	.0	640	.4	7.0
4	.0	.0	.1	1.7	1.9	.9	1.0	1.6	1.0	.2	.0	.0	.0	644	.3	8.2
3	.0	.0	.3	2.4	2.3	1.0	1.0	1.2	.5	.1	.0	.0	.0	592	1.2	7.6
2	.0	*	.8	3.7	2.0	1.2	1.1	2.2	.6	*	.0	.0	.0	792	1.0	10.8
1	.0	.1	1.3	2.5	1.4	1.3	1.2	1.3	.4	*	.0	.0	.0	584	.8	8.9
0	.0	*	2.0	3.1	1.5	1.3	1.2	1.7	.2	.0	.0	.0	.0	677	1.0	10.1
-1	.0	.2	1.3	2.2	.7	1.2	.9	.7	.1	.0	.0	.0	.0	411	.5	6.8
-2	.0	*	1.5	1.4	.7	.9	1.1	.7	*	.0	.0	.0	.0	400	.2	6.2
-3	.0	.2	.7	.9	.3	.7	.8	.3	*	.0	.0	.0	.0	246	.3	3.9
-4	.0	*	.6	.4	.3	.4	.7	.2	*	.0	.0	.0	.0	210	.1	2.9
-5	.0	.1	.1	.5	.3	.6	.3	.1	.0	.0	.0	.0	.0	158	.1	2.2
-6	.0	.3	.2	.5	.3	.4	.2	*	.0	.0	.0	.0	.0	84	.0	1.9
-7/+8	.0	*	.4	.2	.5	.6	.1	*	.0	.0	.0	.0	.0	131	*	1.7
-9/+10	.0	*	.1	.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	64	.0	1.0
-11/+13	*	*	*	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	32	*	.3
-14/+16	.1	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	.0	.1
-17/+19	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL														7086		
PCT	.1	1.2	10.1	21.1	16.0	13.7	12.0	14.7	7.0	2.7	.9	.3	.1	100.0	6.5	98.8

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

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

HGT	N						PCT	SE						PCT		
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+			
41	.2	.8	.2	.0	.0	.0	1.1	.2	.6	.1	.0	.0	.0	.0	.0	.9
1-2	.2	2.9	1.3	.0	.0	.0	4.3	.3	1.7	.8	.0	.0	.0	.0	.0	2.8
3-4	*	1.4	2.4	.1	.0	.0	4.0	.0	.9	1.8	.1	.0	.0	.0	.0	2.5
5-6	.0	.6	2.6	1.3	.0	.0	4.5	.0	.2	1.1	.1	.0	.0	.0	.0	1.4
7	.0	*	1.9	1.3	.0	.0	3.3	.0	.2	.7	.2	.0	.0	.0	.0	1.2
8-9	.0	*	1.0	.8	.0	.0	1.8	.0	*	.2	.1	.0	.0	.0	.0	.3
10-11	.0	.1	.2	1.4	.1	.0	1.8	.0	*	.1	.1	.0	.0	.0	.0	.2
12	.0	.0	*	.7	.0	.0	.7	.0	.0	.0	*	.0	.0	.0	.0	*
13-16	.0	.0	.0	.3	.0	.0	.7	.0	.0	.0	.0	*	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.8	9.5	3.9	.4	.0	22.1	.6	3.6	6.3	.6	*	*	.0	.0	9.4

HGT	E						PCT	SE						PCT		
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+			
41	*	.3	.0	.0	.0	.0	.3	.2	.2	.0	.0	.0	.0	.0	.0	.3
1-2	*	.9	.3	.0	.0	.0	1.5	*	.4	.3	.0	.0	.0	.0	.0	.7
3-4	.0	.3	.8	*	.0	.0	1.2	.0	.4	.4	*	.0	.0	.0	.0	.9
5-6	.0	*	.8	*	.0	.0	.9	.0	.2	.3	*	.0	.0	.0	.0	.6
7	.0	.0	.3	.1	.0	.0	.4	.0	.0	.1	*	.0	.0	.0	.0	.1
8-9	.0	.0	.2	*	.0	.0	.2	.0	.0	.0	*	*	*	.0	.0	.1
10-11	.0	.0	.0	*	*	.0	*	.0	*	.1	.1	*	*	.0	.0	.1
12	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.1	*	*	.0	.0	.1
13-16	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.1	*	*	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.6	2.7	.2	*	.0	4.3	.2	1.2	1.1	.3	.1	.0	.0	.0	3.0

PERIOD: (OVER-ALL) 1963-1976

ANNUAL
TABLE 18 (CONT)

AREA 0014 RAWSON
43.75 61.2W

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

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.4	.0	.0	.0	.0	.0	.4	.2	.5	.0	.0	.0	.0	.7		
1-2	.0	1.2	.3	.0	.0	.0	1.5	.0	1.4	.0	.0	.0	.0	2.0		
3-4	.0	.7	1.1	.2	.0	.0	2.0	.1	1.2	1.9	.1	.0	.0	3.2		
5-6	.0	.3	.6	.4	.0	.0	1.3	.0	.1	2.1	.4	.0	.0	2.6		
7	.0	.1	.7	.7	.0	.0	1.5	.0	.0	1.6	.9	.1	.0	2.6		
8-9	.0	.0	.2	.2	.0	.0	.5	.0	.0	.9	.8	.0	.0	1.8		
10-11	.0	.0	.1	.2	.3	.0	.6	.0	.0	.4	.4	.0	.0	.8		
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.8	.0	.0	.9		
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.2	.2	.0	.5		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
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	2.8	2.9	2.2	.4	.0	6.4	.2	3.3	7.3	2.7	.9	.0	19.2		

HGT	M							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.8	.4	.0	.0	.0	.0	1.4	.1	.3	.0	.0	.0	.0	.8			
1-2	.1	1.5	1.2	.0	.0	.0	2.8	.0	2.1	1.3	.0	.0	.0	3.6			
3-4	.2	1.2	1.0	.1	.0	.0	2.5	.0	2.1	3.4	.8	.0	.0	6.4			
5-6	.0	.1	1.3	.6	.0	.0	2.2	.0	.2	3.1	.9	.0	.0	4.3			
7	.0	.0	1.2	.4	.0	.0	1.7	.0	.0	1.7	1.2	.0	.0	2.9			
8-9	.0	.0	.3	.2	.0	.0	.5	.0	.0	.3	.7	.0	.0	1.2			
10-11	.0	.0	.1	.3	.0	.0	.6	.0	.0	.4	.3	.0	.0	.7			
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.3	.0	.0	.3			
13-16	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1			
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.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	3.4	3.4	.1	.1	.0	12.0	.1	3.0	10.6	4.3	.0	.0	20.0			

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.5	3.9	.3	.0	.0	.0	.0	11.7
1-2	.7	12.0	6.4	.0	.0	.0	.0	19.2
3-4	.3	8.2	12.3	1.3	.0	.0	.0	22.5
5-6	.0	1.8	12.1	3.7	.0	.0	.0	17.7
7	.0	.4	8.1	4.8	.1	.0	.0	13.3
8-9	.0	.0	3.4	2.8	.1	.0	.0	6.3
10-11	.0	.1	1.2	2.9	.4	.0	.0	4.7
12	.0	.0	.0	2.3	.0	.0	.0	2.6
13-16	.0	.0	.0	1.0	.4	.0	.0	1.4
17-19	.0	.0	.0	.1	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.3	.0	.0	.3
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	8.6	26.5	44.1	19.3	1.5	.0	100.0	4133

PERIOD: (OVER-ALL) 1952-1973

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
48	1.4	9.4	14.1	8.4	3.3	1.3	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2214	4
8-9	.0	.7	3.7	6.1	7.1	4.5	2.5	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1183	4
8-9	.0	.3	1.2	1.7	2.3	1.3	2.0	1.9	.9	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	407	8
10-11	.0	.0	.3	.8	.6	.4	.0	.8	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	158	7
12-13	.0	.0	.0	.5	.4	.3	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	174	5
13	.0	.0	.0	.2	.8	.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	95	8
INDET	3.8	2.4	2.2	1.6	1.4	1.0	.7	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	764	3
TOTAL																					4978	5
PCT	9.2	11.5	22.3	19.5	15.9	9.2	7.2	4.1	2.4	.3	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1903-1976
(OVER-ALL) 1854-1976

APEA 0014 RANSON
43.75 61.24

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
98-	.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	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
71/72	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
67/68	1.1	1.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	.3
65/66	4.2	4.2	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	213	.9
63/64	14.2	17.0	8.5	.5	.0	.0	.0	.0	.0	.0	.0	.1	1.4	3.7
61/62	28.0	18.7	13.3	2.2	.0	.0	.0	.0	.0	.0	1.8	7.3	1307	6.3
59/60	21.1	18.0	17.4	5.4	.1	.0	.0	.0	.0	.0	3.7	16.2	1736	7.3
57/58	11.4	13.9	17.3	13.8	1.3	.0	.0	.0	.0	.0	10.3	24.4	1933	8.1
55/56	6.3	12.6	18.1	20.8	3.2	.0	.0	.0	.2	.5	20.6	21.3	2279	9.6
53/54	3.4	8.9	9.7	21.1	9.1	1.9	.0	.1	.0	2.1	17.1	11.3	1708	7.2
51/52	2.8	4.9	8.2	14.3	13.4	3.3	1.6	.3	.3	6.8	13.6	7.9	1613	6.8
49/50	1.1	2.9	4.1	11.8	23.3	10.3	3.0	1.8	.8	17.7	18.8	6.4	2087	8.7
47/48	.5	1.0	1.0	3.7	21.2	20.3	12.3	4.9	14.7	15.0	7.8	2.9	2386	10.8
45/46	.0	.2	.0	4.2	17.6	21.8	23.8	28.3	36.9	25.1	4.3	1.0	3434	14.3
43/44	.0	.0	.1	.3	3.8	21.0	32.3	40.3	29.3	8.7	1.8	.0	2378	10.8
41/42	.0	.0	.0	.0	.7	9.3	12.3	16.4	10.7	3.8	.1	.0	989	4.1
39/40	.0	.0	.0	.0	.1	.8	3.2	4.8	3.2	.4	.0	.0	226	.9
37/38	.0	.0	.0	.0	.1	.1	.1	.6	.8	.0	.0	.0	29	.1
35/36	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
15	.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
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	2353	1972	1864	1234	1647	2038	1913	1634	1734	2239	2741	2403	23834	100.0
MEAN	59.5	58.8	57.3	53.3	49.0	43.9	44.7	43.8	44.7	47.2	52.6	55.8	51.0	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL Obs
JAN	1008	1008	1009	1007	1009	1008	1010	1007	1009	1988
FEB	1008	1011	1007	1010	1009	1010	1007	1011	1009	1432
MAR	1012	1012	1013	1011	1013	1012	1012	1012	1012	1343
APR	1012	1011	1014	1011	1011	1011	1011	1011	1011	802
MAY	1012	1012	1013	1011	1012	1011	1010	1011	1012	1187
JUN	1010	1010	1012	1010	1011	1011	1011	1009	1010	1474
JUL	1012	1012	1011	1012	1012	1012	1012	1012	1012	1312
AUG	1011	1012	1011	1012	1013	1012	1012	1012	1012	1030
SEP	1017	1017	1018	1016	1018	1016	1017	1016	1017	1013
OCT	1014	1013	1016	1012	1014	1012	1013	1012	1014	1736
NOV	1011	1011	1011	1011	1011	1010	1011	1011	1011	2299
DEC	1009	1009	1010	1008	1010	1009	1010	1008	1009	1889
ANN	1011	1012	1012	1011	1012	1011	1011	1011	1011	17349
Obs	3148	1717	1378	1730	3228	2736	1600	1732		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	987	993	997	1003	1008	1014	1021	1024	1027
FEB	987	992	998	1004	1009	1013	1021	1023	1028
MAR	982	993	1000	1007	1012	1017	1023	1026	1032
APR	980	989	997	1005	1012	1018	1026	1030	1032
MAY	983	989	996	1005	1012	1018	1027	1030	1033
JUN	986	989	994	1004	1010	1017	1026	1030	1033
JUL	983	989	996	1003	1012	1019	1028	1034	1037
AUG	982	987	994	1003	1012	1019	1028	1034	1036
SEP	987	992	1000	1010	1017	1024	1032	1036	1040
OCT	986	996	1001	1008	1013	1019	1029	1033	1037
NOV	981	993	998	1007	1012	1018	1022	1026	1034
DEC	991	993	996	1003	1009	1014	1022	1025	1030

PERIOD: (PRIMARY) 1903-1971
(OVER-ALL) 1870-1971

JANUARY

AREA 0015 PUERTO RISEADO
47.93 63.0M

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	3.9	.0	.0	.0	.0	.0	3.9	.0	.0	.0	.0	.0	.0	96.1
NE	.0	20.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	4.9	3.7	.0	.0	.0	.0	.0	8.6	.0	.0	2.3	.0	.0	.0	88.9
SW	2.3	.6	.0	.0	.0	.0	.0	2.9	9.8	.0	1.2	.0	.0	.0	88.1
W	.0	.0	.0	.0	.0	.0	.0	.0	4.1	.0	.0	.0	.0	.0	99.9
NW	4.3	.0	8.7	.0	.0	.0	.0	13.0	4.3	.0	.0	.0	.0	.0	82.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	2.0	2.0	1.4	.0	.0	.0	.0	5.4	4.1	.0	.7	.0	.0	.0	89.9
TOT OBS:	148														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	.0	2.8	.0	.0	.0	.0	.0	2.8	7.8	.0	2.8	.0	.0	.0	91.7
0600	2.9	3.9	2.9	.0	.0	.0	.0	11.8	.0	.0	.0	.0	.0	.0	88.2
1215	2.1	.0	.0	.0	.0	.0	.0	2.1	4.2	.0	2.1	.0	.0	.0	91.7
1821	2.9	.0	2.9	.0	.0	.0	.0	5.7	8.6	.0	.0	.0	.0	.0	83.7
TOT PCT	2.0	2.0	1.3	.0	.0	.0	.0	5.2	3.9	.0	1.3	.0	.0	.0	89.5
TOT OBS:	153														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.9	4.4	4.7	.9	.2	.0	11.0	12.2	14.4	15.3	18.8	12.1	7.2	9.1	14.1	8.0
NE	.2	2.8	2.0	.1	.0	.0	4.7	11.2	4.6	2.5	.9	4.1	5.4	5.1	6.3	6.0
E	.5	1.0	.9	.0	.0	.0	2.4	9.1	3.9	3.5	.0	1.3	2.4	2.1	.0	2.6
SE	.9	1.7	1.1	.1	.1	.0	3.2	10.0	3.3	4.1	4.5	3.7	1.4	3.8	3.1	3.6
S	1.0	3.8	3.4	1.4	.6	.0	10.2	14.2	9.8	8.4	17.0	10.4	11.3	10.2	5.9	10.3
SW	1.8	3.6	7.7	4.3	2.8	1.2	24.0	19.9	18.2	15.8	18.8	24.3	29.5	27.8	34.4	22.9
W	1.3	8.3	9.0	3.6	.6	.0	23.4	15.3	20.9	20.8	24.1	20.9	24.9	23.0	18.0	24.2
NW	1.3	6.6	9.0	1.9	.3	.0	19.1	12.9	22.8	22.3	12.5	20.9	16.8	13.6	18.8	20.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	2.2	1.3	3.6	1.3	1.1	3.7	.0	2.6
TOT OBS	113	409	459	192	96	23	1212	14.7	181	157	28	159	190	312	32	159
TOT PCT	9.3	33.7	37.9	12.3	4.6	1.9	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40					00	03	06	09	12	15	18	21
N	2.3	3.9	2.2	.4	.1	11.0	12.2	14.8	13.1	8.4	9.1					
NE	1.1	2.7	.8	.1	.0	4.7	11.2	3.6	3.6	5.2	6.1					
E	.9	1.1	.4	.0	.0	2.4	9.1	3.7	1.1	2.2	2.2					
SE	1.0	1.6	.3	.1	.0	3.2	10.0	2.7	3.6	2.9	2.7					
S	2.1	4.3	2.1	1.3	.2	10.2	14.3	9.2	11.4	10.7	9.6					
SW	3.6	7.9	5.8	4.0	2.5	24.0	19.9	17.1	23.7	28.4	24.9					
W	3.7	10.8	6.2	1.5	.9	23.4	15.3	23.6	22.3	23.7	23.1					
NW	3.3	10.0	3.1	.3	.1	19.1	12.9	22.6	19.7	16.1	20.3					
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	2.1					2.1	.0	1.8	1.6	2.4	2.2					
TOT OBS	249	340	278	99	46	1212	14.7	338	187	302	183					
TOT PCT	20.5	44.6	22.9	8.2	3.8	100.0		100.0	100.0	100.0	100.0					

JANUARY

PERIOD: (PRIMARY) 1903-1971
(COVER-ALL) 1870-1971

AREA 0015 PUERTO RISEADO
47.35 63.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	1.8	7.4	36.4	36.7	13.9	2.4	1.5	14.0	100.0	330
0600Z	1.6	8.8	33.7	39.0	10.7	5.3	1.1	14.3	100.0	187
1200Z	2.4	7.0	31.9	36.7	13.5	6.2	2.4	13.5	100.0	302
1800Z	2.2	6.8	34.1	42.2	9.2	3.8	2.2	14.3	100.0	185
TOT	25	38	409	459	152	56	23	14.7		1212
PCT	2.1	7.3	33.7	37.9	12.5	4.6	1.9		100.0	

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
NE	.7	.2	1.1	.7	3.3	3.3
E	.0	.9	.9	.0	4.5	4.5
SE	.0	.4	.2	2.0	7.2	7.2
S	2.8	3.0	2.8	4.8	5.4	5.4
SW	7.8	5.2	8.0	5.4	4.5	4.5
W	3.7	1.7	3.4	.9	3.7	3.7
NW	3.9	3.9	3.4	3.5	4.4	4.4
VAR	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.9	.0	3.3	3.3
TOT OBS	29	27	36	23	115	4.6
TOT PCT	23.2	23.3	31.3	20.0	100.0	

TABLE 6

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

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	1.7	.9	1.1	.7	.0	.9	13.3	
NE	.0	.0	.0	.0	.0	.0	.9	.2	.0	.0	1.1	
E	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.9	
SE	.0	.2	.0	.2	.9	.0	.0	.0	.9	.0	.4	
S	.0	.7	.0	.7	3.0	1.7	.9	.7	.0	.0	5.9	
SW	.0	.0	.0	2.6	.9	3.2	.0	.4	.0	.9	16.5	
W	.0	.0	.0	.0	2.2	.0	.0	.7	.0	.0	10.9	
NW	.0	.0	.0	.9	1.7	.9	1.3	.0	.0	.0	13.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	1.7	
TOT OBS	0	1	0	5	12	11	3	4	1	2	74	115
TOT PCT	.0	.9	.0	4.3	10.4	9.6	4.3	3.3	.9	1.7	64.3	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM)								
	>10	>8	>6	>4	>3 1/2	>3	>2 1/4	>2	>1
>1500	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
>1000	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
>500	9.3	9.3	10.2	10.2	10.2	10.2	10.2	10.2	10.2
>2000	11.9	16.9	17.8	18.6	19.5	19.5	19.5	19.5	19.5
>1000	19.8	26.3	28.0	28.8	29.7	29.7	29.7	29.7	29.7
>600	23.7	30.5	32.2	33.1	33.9	33.9	33.9	33.9	33.9
>300	23.7	30.5	32.2	33.1	33.9	33.9	33.9	33.9	33.9
>150	23.7	31.4	33.1	33.9	34.7	34.7	34.7	34.7	34.7
>0	23.7	31.4	33.1	33.9	34.7	34.7	34.7	34.7	34.7
TOTAL	28	37	39	40	41	41	41	41	41

TOTAL NUMBER OF OBS: 115

PCT FREQ NH <5/8: 64.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
17.1	18.7	7.3	10.6	9.8	8.1	4.9	6.3	17.1	.0	123

PERIOD: (PRIMARY) 1903-1971
(OVER-ALL) 1870-1971

JANUARY

AREA 0015 PUERTO RISEADO
47.55 63.04

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.7
	TOT %	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.7
1/2<1	PCP	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7
1<2	PCP	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
	NO PCP	.0	.0	.0	.0	.0	.2	.5	.7	.1	.0	.0	1.4
	TOT %	.0	.0	.0	.0	.0	.2	.5	1.4	.0	.0	.0	2.0
5<10	PCP	.7	.7	.0	.0	.5	.2	.0	1.4	.0	.0	.0	3.4
	NO PCP	1.4	.7	2.0	.2	1.4	3.2	.7	.7	.0	.0	.0	12.2
	TOT %	2.0	1.4	2.0	.2	1.9	3.4	.7	2.0	.0	.0	.0	15.9
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	15.4	2.0	1.0	3.7	10.8	22.6	11.1	12.2	.0	2.0	.0	80.4
	TOT %	15.4	2.0	1.0	3.7	10.8	22.6	11.1	12.2	.0	2.0	.0	80.4
TOT OBS													148
TOT PCT		17.4	3.4	3.0	3.4	13.7	29.2	12.3	15.9	.0	2.0	100.0	

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PC	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.6
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.6
	TOT %	.0	.0	.0	.0	.3	.6	.6	.0	.0	.0	.0	1.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.1	.4	1.1	.0	.0	.0	1.7
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.1	.4	1.1	.0	.0	.0	1.7
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.6	.6	.0	.3	.8	.6	.0	.0	.0	.0	2.8
	11-21	1.7	.6	1.1	.0	.0	1.1	.0	2.2	.0	.0	.0	6.7
	22+	.6	.0	.0	.1	1.3	2.0	.0	.0	.0	.0	.0	3.9
	TOT %	2.2	1.1	1.7	.1	1.3	4.3	.6	2.2	.0	.0	.0	14.0
10+	0-3	1.3	.1	.6	.6	.8	.3	.6	.8	.0	1.7	.0	6.7
	4-10	5.3	2.0	.3	1.3	3.2	3.4	4.9	6.4	.0	.0	.0	29.1
	11-21	10.3	.6	.0	.8	3.4	10.1	3.0	6.7	.0	.0	.0	38.9
	22+	.0	.0	.0	.0	.0	6.9	.7	.8	.0	.0	.0	7.8
	TOT %	16.9	2.5	.3	2.9	9.3	22.3	11.2	14.2	.0	1.7	.0	82.1
TOT OBS													179
TOT PCT		9.1	3.6	2.5	3.1	11.9	28.1	12.4	17.4	.0	1.7	100.0	

JANUARY

PERIOD: (PRIMARY) 1903-1971
(OVER-ALL) 1870-1971

APEA 0015 PUERTO RISEADO
47.5C 63.0W

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	3.7	.0	7.4	.0	11.1	11.1	.0	.0	.0	33.3	66.7	27
06009	.0	.0	.0	3.6	21.4	3.6	.0	3.6	.0	.0	32.1	67.9	28
12015	.0	.0	.0	2.8	8.3	3.6	2.6	3.6	.0	.0	25.0	75.0	36
18021	.0	.0	.0	3.6	10.7	17.9	3.6	3.6	3.6	7.1	50.0	50.0	28
TOT	0	1	0	5	12	11	5	4	1	2	41	78	119
PCT	.0	.8	.0	4.2	10.1	9.2	4.2	3.4	.8	1.7	34.3	63.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.0	.0	.0	2.0	16.3	79.6	49
06009	2.5	2.5	.0	2.5	15.0	77.5	40
12015	1.8	.0	1.8	1.8	10.7	83.9	36
18021	.0	.0	.0	.0	12.0	87.2	39
TOT	3	1	1	3	25	191	184
PCT	1.6	.5	.5	1.6	13.6	82.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50VD	<600 <1	<1000 <5	1000+ AND 3+	NH <5/8 AND 3+	TOTAL OBS
00003	.0	3.7	11.1	22.2	66.7	27
06009	.0	3.7	11.1	22.2	66.7	27
12015	.0	.0	8.3	16.7	75.0	36
18021	.0	.0	3.6	46.4	50.0	28
TOT	0	2	10	31	77	118
PCT	.0	1.7	8.3	26.3	63.3	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
70/74	.0	.0	.0	.0	.7	.7	.0	.0	2	1.4
69/69	.0	.0	.0	.0	1.4	2.7	2.0	.0	9	6.1
68/64	.0	.0	.0	.7	2.7	5.4	6.8	8.2	35	23.8
59/59	.0	.0	.0	.7	4.1	10.9	7.0	4.8	61	41.5
50/54	.0	.0	.0	2.0	4.1	4.1	14.3	1.4	38	25.9
45/49	.0	.0	.0	.0	.0	.0	1.4	.0	2	1.4
TOTAL	0	0	0	5	22	33	39	26	147	100.0
PCT	.0	.0	.0	3.4	15.0	23.8	40.1	17.7		

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	1.2	.2	.0	.0
1.4	.0	.7	.0	.7	.9	1.2	1.4	.0	.0
4.9	1.0	1.4	1.4	.5	3.6	3.9	5.1	.0	2.0
9.4	.9	.7	2.2	7.5	9.7	3.7	7.8	.0	.0
2.2	.2	.0	.7	3.4	11.9	3.7	3.7	.0	.0
.0	.0	.0	.0	.3	.3	.5	.0	.0	.0
17.9	1.7	2.7	4.3	12.6	26.4	14.3	16.2	.0	2.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	69	65	61	58	50	47	46	55.5	323
06009	66	63	61	53	48	46	46	54.8	184
12015	71	68	65	57	50	47	46	57.1	480
18021	73	72	66	58	51	48	46	53.1	149
TOT	73	68	64	56	50	47	46	56.5	1.00

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.7	10.8	24.3	40.3	21.6	.2	.2	37	
06009	.0	3.0	3.0	27.3	42.4	24.2	.3	.3	33	
12015	.0	2.3	15.9	22.7	40.9	18.2	.0	.0	44	
18021	.0	5.3	26.3	23.7	34.2	10.5	.0	.0	38	
TOT	0	3	22	37	60	28	0	0	132	

JANUARY

PERIOD: (PRIMARY) 1903-1971
(OVER-ALL) 1870-1971

AREA 0015 PUERTO RISEADO
47.55 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	45 48	49 52	53 56	57 60	61 64	65 68	TOT	% FOG	NO FOG
11/13	.0	.0	.0	1.4	.0	.0	2	.0	1.4
9/10	.0	.0	.0	.0	.7	.0	1	.0	.7
7/8	.0	.0	.7	1.4	2.1	.0	7	.0	4.8
6	.0	1.4	.0	.7	2.1	.0	6	.0	4.1
5	.0	.0	.0	2.1	4.1	2.7	13	.0	8.9
4	.0	.7	2.1	1.4	.0	.0	6	.0	4.1
3	.0	.7	2.7	8.2	1.4	.0	19	.0	13.0
2	.0	1.4	4.8	2.1	1.4	.0	14	.0	9.8
1	.0	.7	3.4	4.1	.7	.0	13	.0	8.9
0	.0	4.1	7.8	4.8	1.4	.0	28	.0	17.8
-1	.7	4.1	4.1	2.1	.0	.0	16	.0	11.0
-2	.0	.7	1.4	1.4	.0	.0	3	.0	3.4
-3	.7	4.1	.7	.0	.0	.0	8	.7	4.8
-4	.7	1.4	2.1	.0	.0	.0	6	.0	4.1
-7/-8	1.4	.7	.7	.0	.0	.0	4	.0	2.7
TOTAL	3	44	43	20	5	146	1	145	
PCT	3.4	19.9	30.1	29.5	13.7	3.4	100.0	.7	99.3

PERIOD: (OVER-ALL) 1903-1971

TABLE 18

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

HGT	M						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	1.2	.0	3.0	.0	.0	.0	4.9	.4	.0	.0	.0	.0	.0	.4
3-4	.0	1.3	7.3	.0	.0	.0	8.8	.0	.0	1.2	.0	.0	.0	1.2
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	3.1	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	1.3	19.2	.0	.0	.0	21.9	.4	.0	1.2	.0	.0	.0	1.3

HGT	SE						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	1.3	.0	.0	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.4	.0	.0	.0	1.9
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	1.3	1.3	.0	.0	.0	4.6	.0	1.3	.4	.0	.0	.0	1.9

PERIOD: (OVER-ALL) 1963-1971

JANUARY

AREA 0013 PUERTO RISEADO
47.95 63.0W

TABLE 18 (CONT)

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

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
01	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	1.5
1-2	.0	1.5	2.7	.0	.0	.0	5.4	.0	1.5	1.5	.0	.0	.0	3.5
3-4	.0	1.5	1.5	.0	.0	.0	3.1	.0	1.5	1.5	.0	.0	.0	3.5
5-6	.0	.0	3.1	.0	.0	.0	3.1	1.5	.0	3.1	.0	.0	.0	4.6
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	4.6	.0	.0	4.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	3.1	.0	4.6
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	1.5
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	1.2	3.1	4.8	.0	.0	.0	13.1	1.9	3.5	7.7	7.7	9.1	.0	23.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
01	1.5	.0	.0	.0	.0	.0	1.5	.0	1.5	.0	.0	.0	.0	1.5	
1-2	.0	1.5	1.2	.0	.0	.0	2.7	.0	1.5	3.8	.0	.0	.0	10.0	
3-4	.0	3.8	.0	.0	.0	.0	3.8	.0	1.5	2.3	.0	.0	.0	3.8	
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	3.1	.0	.0	.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	.0	.0	.0	.0	3.1	
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	1.5	7.3	2.7	.0	.0	.0	11.5	.0	9.2	10.8	.0	.0	.0	20.0	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT D/S
01	1.5	4.5	9.0	.0	.0	.0	9.0	
1-2	4.5	13.4	14.4	.0	.0	.0	32.3	
3-4	1.5	11.9	13.4	.0	.0	.0	26.8	
5-6	1.5	.0	11.9	.0	.0	.0	13.4	
7	.0	.0	3.0	.0	.0	.0	3.0	
8-9	.0	.0	3.0	4.5	.0	.0	7.5	
10-11	.0	.0	.0	.0	.0	.0	1.5	
12	.0	.0	.0	1.5	3.0	.0	4.5	
13-16	.0	.0	.0	1.5	.0	.0	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	9.0	39.9	50.7	7.5	3.0	.0	100.0	67

PERIOD: (OVER-ALL) 1950-1971

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.1	11.7	16.0	9.6	3.7	2.7	1.1	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	3
6-7	.0	.0	2.1	11.7	2.1	2.1	1.1	2.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	7
8-9	.0	.0	4.3	4.3	2.1	2.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	8
10-11	.0	.0	.0	1.1	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
12-13	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
>13	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDEX	1.1	3.2	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	94	2
TOTAL	2	14	22	27	7	10	3	6	3	0	0	0	0	0	0	0	0	0	0	0	94	5
PCT	2.1	14.9	23.4	28.7	7.4	10.6	3.2	6.4	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1871-1973

AREA 0015 PUERTO RISEADO
47.45 63.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PAST HR	SMOKE HAZE	SPRAY BLWG	NO DUST SIG WEA
N	6.4	.0	.0	.0	.0	.0	.0	6.4	.0	.0	.0	.0	2.7	.0	90.9
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	.0	.0	.0	95.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	87.5
SW	.0	.0	3.4	.0	.0	.0	.0	3.4	6.7	.0	.0	.0	.0	.0	89.9
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.8	.0	.0	.0	.0	.0	.0	.8	.0	3.1	3.1	.0	.8	.0	92.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	.0	.7	.0	.0	.0	.0	2.2	1.5	.7	1.3	.0	.7	.0	93.4
TOT OBS:	197														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PAST HR	SMOKE HAZE	SPRAY BLWG	NO DUST SIG WEA
0000	3.0	.0	3.0	.0	.0	.0	.0	6.1	.0	.0	3.0	.0	3.0	.0	87.9
0600	2.9	.0	.0	.0	.0	.0	.0	2.9	.0	3.7	.0	.0	.0	.0	91.4
1200	.0	.0	.0	.0	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	97.3
1800	.0	.0	.0	.0	.0	.0	.0	.0	2.8	.0	2.8	.0	2.8	.0	91.7
TOT PCT	1.4	.0	.7	.0	.0	.0	.0	2.1	1.4	1.4	1.4	.0	1.4	.0	92.2
TOT OBS:	141														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18	21
N	.8	5.2	5.9	1.7	.3	.0		13.8	13.5	19.4	15.5	13.0	13.1	11.0	8.9	19.2	18.0	
NE	.6	3.6	1.5	.2	.0	.0		5.9	9.0	7.7	7.0	4.0	2.9	3.0	6.5	5.0	5.9	
E	.6	2.0	1.7	.3	.0	.0		4.6	10.6	3.2	4.2	.0	7.0	7.4	3.8	1.7	4.1	
SE	.7	3.3	2.1	.3	.1	.0		6.5	10.1	8.8	8.2	4.0	5.4	6.0	5.0	6.7	6.9	
S	.7	3.4	4.3	1.2	.6	.1		10.3	14.9	12.6	8.6	7.0	9.6	10.4	10.8	.0	11.7	
SW	.7	6.2	7.0	3.4	.9	.1		18.3	16.0	15.6	16.8	13.0	18.8	18.7	22.2	18.3	14.8	
W	1.3	6.2	7.4	2.8	.3	.2		18.3	13.6	9.5	16.1	28.0	19.1	21.3	22.9	24.2	14.7	
NW	1.3	6.8	8.7	3.2	.4	.2		20.5	14.1	22.1	23.0	27.0	20.4	17.3	18.5	23.0	22.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.9							1.9	.0	1.2	.6	.0	3.8	3.9	1.7	.0	1.9	
TOT OBS	103	434	437	153	30	8	1187	1.0	13.4	173	163	23	137	173	302	30	160	
TOT PCT	8.7	36.6	38.3	14.1	2.5	.7		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					03	06	12	18
N	2.7	5.9	4.4	.0	.1	13.8	13.5	17.3	13.3	9.7	18.2	
NE	2.3	2.6	.7	.0	.0	5.9	9.0	7.3	3.0	5.9	5.8	
E	1.1	2.7	.8	.0	.0	4.6	10.6	3.7	6.0	3.0	3.7	
SE	2.3	3.2	.9	.0	.1	6.5	10.1	8.5	5.2	5.3	6.8	
S	1.9	4.7	2.3	1.1	.3	10.3	14.9	10.7	9.2	10.6	9.9	
SW	2.6	7.7	5.5	1.9	.3	18.3	16.0	16.2	18.3	20.9	13.4	
W	4.2	8.0	4.8	1.1	.3	18.3	13.6	12.7	20.7	22.3	16.2	
NW	4.0	9.3	6.0	.9	.3	20.5	14.1	22.6	21.1	18.0	24.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.9					1.9	.0	.9	3.1	2.1	1.6	
TOT OBS	278	523	302	66	18	1187	13.4	338	182	477	190	
TOT PCT	23.4	44.1	25.4	5.6	1.5		100.0	100.0	100.0	100.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1871-1973

AREA 0015 PUERTO RISEADO
47.45 63.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HRUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	.9	6.8	36.8	39.6	11.8	1.8	.3	12.9	100.0	338
0600	3.3	7.1	36.3	29.6	12.1	1.6	.0	12.6	100.0	162
1200	2.1	6.9	34.0	38.4	14.3	3.4	1.0	14.0	100.0	477
1800	1.6	6.3	39.5	35.8	13.2	2.6	1.1	13.3	100.0	190
TOT	22	61	434	457	133	30	8	13.4		1167
PCT	1.9	6.8	36.6	38.3	13.1	2.5	.7	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER	PCT FREQ OF CEILING HEIGHTS (FT, NM) >4/8 AND OCCURRENCE OF NM <9/8 BY WIND DIRECTION										
							000	150	300	400	1000	2000	3000	4000	6000	8000+	NM <9/8 ANY HGT	TOTAL OBS
N	4.0	5.3	2.7	5.3		4.6	.9	.0	.0	.7	4.2	.0	.0	.0	.0	.7	10.8
NE	.0	1.8	1.1	2.0		3.5	.0	.0	.0	.9	1.1	.0	.0	.0	.0	.0	2.9
E	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	1.8	1.1		3.6	.2	.0	.0	.0	.0	.9	.0	.0	.0	.0	1.8
S	.0	.9	2.2	2.2		6.3	.7	.0	.0	1.3	.0	.7	1.3	.0	.0	.0	.9
SW	4.9	3.8	8.6	6.4		3.1	.0	.0	.0	1.1	3.5	3.5	.2	.0	.2	.0	13.1
W	4.9	4.0	9.3	4.4		4.9	.0	.0	.0	.0	2.2	3.8	.4	.9	1.3	1.8	11.5
NW	6.8	2.9	10.6	2.4		4.3	.0	.0	.0	.2	1.1	1.8	.0	.0	.0	.0	19.2
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	.0
TOT OBS	24	21	41	27	113	9.0	2	0	0	3	16	12	4	1	2	3	68
TOT PCT	21.2	18.6	36.3	23.9	100.0		1.8	.0	.0	4.4	14.2	10.6	3.5	.9	1.8	2.7	60.2

TABLE 6

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

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER	PCT FREQ OF CEILING HEIGHTS (FT, NM) >4/8 AND OCCURRENCE OF NM <9/8 BY WIND DIRECTION										
							000	150	300	400	1000	2000	3000	4000	6000	8000+	NM <9/8 ANY HGT	TOTAL OBS
N	4.0	5.3	2.7	5.3		4.6	.9	.0	.0	.7	4.2	.0	.0	.0	.0	.7	10.8
NE	.0	1.8	1.1	2.0		3.5	.0	.0	.0	.9	1.1	.0	.0	.0	.0	.0	2.9
E	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	1.8	1.1		3.6	.2	.0	.0	.0	.0	.9	.0	.0	.0	.0	1.8
S	.0	.9	2.2	2.2		6.3	.7	.0	.0	1.3	.0	.7	1.3	.0	.0	.0	.9
SW	4.9	3.8	8.6	6.4		3.1	.0	.0	.0	1.1	3.5	3.5	.2	.0	.2	.0	13.1
W	4.9	4.0	9.3	4.4		4.9	.0	.0	.0	.0	2.2	3.8	.4	.9	1.3	1.8	11.5
NW	6.8	2.9	10.6	2.4		4.3	.0	.0	.0	.2	1.1	1.8	.0	.0	.0	.0	19.2
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	.0
TOT OBS	24	21	41	27	113	9.0	2	0	0	3	16	12	4	1	2	3	68
TOT PCT	21.2	18.6	36.3	23.9	100.0		1.8	.0	.0	4.4	14.2	10.6	3.5	.9	1.8	2.7	60.2

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>8	>6	>5	>1/2	>1/4	>3000	>0
>8000	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
>5000	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
>3000	7.0	8.7	8.7	8.7	8.7	8.7	8.7	8.7
>2000	13.9	19.1	19.1	19.1	19.1	19.1	19.1	19.1
>1000	27.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
>600	30.4	36.3	37.4	37.4	37.4	37.4	37.4	37.4
>300	30.4	36.3	37.4	37.4	37.4	37.4	37.4	37.4
>150	30.4	36.3	37.4	37.4	37.4	37.4	37.4	37.4
>0	30.4	36.3	38.3	38.3	38.3	38.3	39.1	39.1
TOTAL	38	42	44	44	44	44	45	48

TOTAL NUMBER OF OBS: 113

PCT FREQ NM <9/8: 60.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL OBS
	19.5	12.7	13.6	11.0	9.1	5.1	11.0	7.6	12.7	1.7	118

FEBRUARY

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1871-1973

AREA 0013 PUERTO RISEADO
47.4S 62.0W

TABLE 8

VSBY (NM)		PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VA ² ; VALUES OF VISIBILITY								VAR	CALM	PCT	TOTAL OBS
		N	NE	E	SE	S	SW	W	NW				
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.2	.5	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.0	.2	.5	.0	.0	.0	.0	.0	.7	
1/2<1	PCP	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.7	.0	.0	.7	.0	.0	1.5	
	TOT %	.7	.0	.0	.0	.7	.0	.0	.7	.0	.0	2.2	
5<10	PCP	.9	.0	.0	.0	.0	.7	.0	.2	.0	.0	1.4	
	NO PCP	2.9	.4	.7	1.8	1.8	5.8	1.5	5.5	.0	.0	20.4	
	TOT %	3.9	.4	.7	1.8	1.8	6.6	1.5	5.7	.0	.0	21.9	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	18.9	4.4	.0	2.2	1.3	15.1	19.0	17.3	.0	.0	75.2	
	TOT %	18.9	4.4	.0	2.2	1.3	15.1	19.0	17.3	.0	.0	75.2	
TOT OBS													137
TOT PCT		20.1	4.7	.7	4.2	4.4	21.7	20.4	23.7	.0	.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY								VAR	CALM	PCT	TOTAL OBS
		N	NE	E	SE	S	SW	W	NW				
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.4	.0	.0	.0	.0	.0	.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.4	.0	.0	.0	.0	.0	.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	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	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.5	.0	.0	.3	1.1	.3	.0	.3	.0	.0	2.7	
	22+	.0	.3	.3	.0	.3	.3	.0	.0	.0	.0	1.6	
	TOT %	.5	.3	.3	.3	1.6	.8	.0	.3	.0	.0	4.4	
5<10	0-3	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	1.1	
	4-10	1.2	1.9	.3	1.4	.0	1.9	1.4	.4	.0	.0	8.7	
	11-21	1.1	.3	.0	.3	1.0	3.7	1.1	2.3	.0	.0	10.4	
	22+	.3	.0	.0	.4	.1	.0	1.4	.0	.0	.0	2.2	
	TOT %	2.6	2.3	.3	1.9	1.4	6.3	3.0	4.2	.0	.0	22.4	
10+	0-3	.0	.0	1.1	.0	.0	.1	1.0	1.1	.0	.0	3.3	
	4-10	4.2	2.6	.3	2.5	.0	3.3	7.4	3.8	.0	.0	26.2	
	11-21	7.4	1.2	.0	.0	2.0	8.3	4.9	9.8	.0	.0	33.9	
	22+	2.2	.0	.0	.0	.3	1.4	4.3	.7	.0	.0	9.3	
	TOT %	13.8	3.8	1.4	2.5	2.6	15.4	17.8	19.4	.0	.0	72.7	
TOT OBS													183
TOT PCT		16.9	6.6	2.2	4.8	6.0	22.3	20.8	20.2	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1871-1973

AREA 0015 PUERTO RISEADO
47.45 62.0W

TABLE 10

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

HRUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 AMZ HGT	TOTAL OBS
00003	3.7	.0	.0	3.7	11.1	11.1	11.1	.0	.0	.0	40.7	59.3	27
06009	3.7	.0	.0	7.4	7.4	.0	3.7	3.7	3.7	3.7	33.3	66.7	27
12015	.0	.0	.0	6.3	25.0	12.5	.0	.0	3.1	6.3	53.1	46.9	32
18021	.0	.0	.0	.0	9.4	15.6	.0	.0	.0	.0	25.0	75.0	32
TOT	2	0	0	5	16	12	4	1	2	3	45	73	118
PCT	1.7	.0	.0	4.2	13.0	10.2	3.4	.8	1.7	2.5	38.1	61.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.1	.0	.0	8.3	27.7	61.7	47
06009	.0	.0	.0	3.0	32.5	62.5	40
12015	.0	.0	.0	.0	17.3	82.7	32
18021	.0	.0	2.1	4.2	14.6	79.2	48
TOT	1	0	1	8	42	135	187
PCT	.5	.0	.5	4.3	22.5	72.2	100.0

TABLE 12

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

HRUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	3.7	3.7	7.4	33.3	59.3	27
06009	3.8	3.8	11.3	23.1	65.4	26
12015	.0	.0	6.3	46.9	46.9	32
18021	.0	.0	3.3	26.7	70.0	30
TOT	2	2	8	38	69	115
PCT	1.7	1.7	7.0	33.0	60.0	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
64/69	.0	.0	.0	.0	.0	1.7	.0	.9	3	2.6
69/64	.0	.0	.0	1.7	4.3	6.0	5.1	2.6	23	19.7
74/59	.0	.0	.0	2.6	8.0	13.7	12.0	6.8	46	41.0
79/54	.0	.0	.9	.0	4.3	11.1	15.4	2.6	40	34.2
84/49	.0	.0	.0	.0	.9	.9	.0	.9	3	2.6
TOTAL	0	0	1	5	18	39	38	16	117	100.0
PCT	.0	.0	.9	4.3	15.4	33.3	32.5	13.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
64/69	.0	.9	.0	.0	.0	.0	.0	.4	.0	.0
69/64	6.0	.9	.0	.9	1.5	.4	4.7	3.3	.0	.0
74/59	8.1	1.3	.4	.4	2.4	9.0	9.0	3.8	.0	.0
79/54	3.6	1.3	.0	2.8	2.1	10.3	6.0	6.0	.0	.0
84/49	.0	.9	.0	.0	.6	1.1	.0	.0	.0	.0
TOTAL	20.3	5.1	.4	4.1	6.6	20.9	20.9	21.6	.0	.0

TABLE 15

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

HRUR (GMT)	MAX	98%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	68	66	61	56	49	43	44	55.5	333
06009	63	62	61	53	48	43	44	54.8	182
12015	71	67	64	57	50	47	45	57.2	456
18021	71	69	63	53	50	47	48	57.8	174
TOT	71	67	64	56	50	46	44	56.4	1145

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	7.1	25.0	21.4	28.6	17.9	77	28		
06009	.0	.0	21.4	35.7	32.1	10.7	78	28		
12015	.0	5.9	8.8	41.2	23.5	20.6	79	34		
18021	.0	6.5	4.5	32.3	48.4	6.5	79	31		
TOT	0	6	18	40	40	17	78	121		

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1871-1973

FEBRUARY

AREA 0015 PUERTO DESEADO
47.48 63.0M

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND TPE 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	66 72	TOT	N FOG	MO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.7	1	.7	.0
9/10	.0	.0	.0	.0	.7	.7	.0	.0	2	.0	2.2
7/8	.0	.0	.0	.0	2.2	1.5	1.5	.0	7	.0	5.1
6	.0	.0	.0	.0	1.5	1.5	.0	.0	4	.0	2.9
5	.0	.0	.0	3.7	6.6	.7	.7	.0	16	.0	11.8
4	.0	.0	.0	.0	.7	.7	.0	.0	2	.0	1.5
3	.0	.0	.0	3.7	5.1	.7	.0	.0	13	.0	9.4
2	.0	.0	1.5	4.4	5.1	1.5	.0	.0	17	.0	12.3
1	.0	.0	2.9	9.6	2.2	.7	.0	.0	21	.0	15.4
0	.0	.0	4.4	6.6	.7	.7	.0	.0	17	.0	12.3
-1	.0	.0	3.7	4.4	1.5	.7	.0	.0	14	.0	10.3
-2	.0	.7	2.9	2.2	1.5	.0	.0	.0	10	.0	7.4
-3	.0	.0	1.5	2.2	.7	.0	.0	.0	6	.0	4.4
-4	.0	.0	.0	1.5	.0	.0	.0	.0	2	.0	1.5
-5	.7	.0	.0	.0	.0	.0	.0	.0	1	.0	.7
-7/-8	.0	.0	.0	.7	.0	.0	.0	.0	1	.0	.7
-9/-10	.0	.7	.0	.0	.0	.0	.0	.0	1	.0	.7
TOTAL	1	23	39	39	13	2.9	1	136	100.0	.7	99.3
PCT	.7	16.9	39.0	28.7	9.6	2.9	.7	100.0	.7	99.3	

PERIOD: (OVER-ALL) 1903-1973

TABLE 18

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

HGT	N						PCT	NE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.4	2.8	.0	.0	.0	3.2	.0	1.6	1.6	.0	.0	.0	.0	3.2
3-4	.0	2.4	3.6	.0	.0	.0	6.0	.0	.4	.0	.0	.0	.0	.0	.4
5-6	.0	.0	2.8	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.8	3.2	.0	.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	4.4	.0	.0	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.8	16.3	3.2	.0	.0	24.2	.0	2.0	1.6	.0	.0	.0	.0	3.6

HGT	E						PCT	SE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	1.6
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.6	.0	.0	.0	.0	2.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	2.0	1.6	.0	.0	.0	.0	3.6

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY
TABLE 18 (CONT)

AREA 0015 PUERTO RISEADO
47.45 63.0W

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

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	1.6	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	3.2	
3-4	.0	1.2	2.8	1.2	.0	.0	5.2	.0	.0	3.6	11.9	.4	.0	.0	15.9	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	2.0	.0	.0	.0	4.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.2	2.8	1.2	1.6	.0	6.7	.0	.0	7.1	16.7	.4	.0	.0	24.2	

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	1.6	.0	
1-2	1.6	3.2	.0	.0	.0	.0	4.8	.0	.0	2.4	2.0	.0	.0	.0	4.4	.0	
3-4	.0	1.2	2.8	1.2	.0	.0	2.8	.0	.0	2.0	6.0	.0	.0	.0	7.9	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	2.0	.0	
7	.0	.0	2.4	.0	.0	.0	2.4	.0	.0	.0	4.4	.0	.0	.0	4.4	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	2.0	.0	
10-11	.0	.0	.0	1.6	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.6	3.6	3.2	3.2	.0	.0	13.8	.0	.0	4.4	17.9	.0	.0	.0	22.2	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	1.6	1.6	1.6	.0	.0	.0	4.7	64
1-2	1.6	10.9	9.4	.0	.0	.0	21.9	
3-4	.0	10.9	23.0	3.1	.0	.0	39.1	
5-6	.0	3.1	9.4	.0	.0	.0	12.5	
7	.0	.0	9.4	3.1	.0	.0	12.5	
8-9	.0	.0	6.3	.0	.0	.0	6.3	
10-11	.0	.0	.0	1.6	1.6	.0	3.1	
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	3.1	26.6	60.9	7.6	1.6	.0	130.0	

PERIOD: (OVER-ALL) 1951-1973

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.0	3.9	19.8	3.3	3.5	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	4
6-7	.0	.0	3.3	12.1	8.8	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	6
8-9	.0	.0	2.2	4.4	2.2	1.1	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	7
10-11	.0	1.1	1.1	.0	2.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
12-13	.0	.0	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	3
>13	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	11
INDRY	1.1	2.2	3.3	.0	2.2	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	4
TOTAL	1	8	29	22	19	4	3	3	1	1	0	0	0	0	0	0	0	0	0	0	91	3
PCT	1.1	8.8	31.9	24.2	20.9	4.4	3.3	3.3	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1903-1973
(OVER-ALL) 1855-1973

MARCH

AREA 0013 PUERTO RISEADO
47.4S 63.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG
N	2.6	2.6	.0	.0	.0	.0	.0	5.2	.0	.0	9.0	.0	.0	.0	85.8
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	20.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	7.7	.0	.0	.0	.0	.0	92.3
SW	6.8	.0	.0	.0	.0	.0	.0	6.8	6.8	.0	.0	.0	.0	.0	86.4
W	8.9	.0	.0	.0	.0	.0	.0	8.9	.0	.0	.0	.0	.0	.0	91.1
NW	2.7	.0	1.8	.0	.0	.0	.0	4.3	.0	.0	4.3	.0	.0	.0	91.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.9	.6	1.1	.0	.0	.0	.0	3.6	1.7	.0	3.3	.0	.0	.0	89.4
TOT OBS:	180														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG
0000	3.9	.0	.0	.0	.0	.0	.0	3.9	2.0	.0	3.9	.0	.0	.0	88.2
0400	4.7	.0	4.7	.0	.0	.0	.0	9.2	.0	.0	4.7	.0	.0	.0	86.0
0800	.0	2.0	.0	.0	.0	.0	.0	2.0	2.0	.0	4.1	.0	.0	.0	91.8
1200	4.7	.0	.0	.0	.0	.0	.0	4.7	2.3	.0	.0	.0	.0	.0	93.0
TOT PCT	3.6	.5	1.1	.0	.0	.0	.0	3.4	1.6	.0	3.2	.0	.0	.0	89.8
TOT OBS:	186														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	1.4	6.3	7.0	2.3	.4	.0	17.3	13.6	19.6	19.3	17.4	19.7	18.2	13.4	27.9	13.5	
NE	.8	1.7	1.1	.5	.0	.0	2.8	11.8	4.6	3.0	3.0	4.7	4.2	3.3	5.9	2.9	
E	.5	1.2	.2	.4	.0	.0	2.3	9.9	3.2	3.3	6.1	1.9	1.0	1.9	.0	2.4	
SE	.1	2.0	1.1	.6	.0	.0	3.7	12.1	4.5	4.8	4.8	2.2	3.7	3.6	2.9	3.4	
S	.8	3.2	3.1	1.5	.7	.4	9.0	16.2	13.7	13.4	11.4	9.6	4.4	6.8	2.2	11.6	
SW	1.0	4.3	6.4	4.7	3.1	1.1	20.6	21.3	18.7	16.2	14.4	19.9	23.1	22.9	16.2	21.7	
W	1.0	6.4	7.8	3.3	.6	.1	19.2	14.8	12.7	16.7	19.7	20.6	18.8	23.0	12.5	20.9	
NW	.7	7.1	9.0	4.4	.5	.0	21.7	19.1	21.8	21.3	23.3	19.2	22.0	21.4	26.3	23.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.7	.0	.0	.0	.0	.0	1.7	.0	1.4	2.0	.0	2.2	2.3	1.7	3.9	.0	
TOT OBS	109	432	483	238	72	22	1350	19.6	221	196	33	189	203	292	34	189	
TOT PCT	7.6	32.0	35.9	17.6	5.3	1.6	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	09	15	21
N	3.0	8.6	4.1	1.4	.1	17.3	13.6	19.6	19.4	15.4	13.7
NE	.8	2.1	.7	.1	.0	3.8	13.8	3.9	4.3	3.6	3.4
E	1.0	.8	.3	.1	.0	2.3	9.9	3.2	2.6	1.9	2.0
SE	1.1	1.7	.9	.0	.0	3.8	12.1	4.5	2.6	3.6	3.4
S	2.0	3.8	2.3	.6	.6	9.6	16.2	13.5	2.6	3.9	10.2
SW	2.9	5.3	6.6	3.3	2.4	20.6	21.3	17.5	19.0	23.8	20.9
W	2.8	9.4	3.4	1.3	.4	19.2	14.8	14.6	20.4	22.3	19.6
NW	3.8	9.0	6.3	2.6	.0	21.7	19.1	21.6	19.8	21.7	24.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7	.0	.0	.0	.0	1.7	.0	1.7	1.9	2.0	.9
TOT OBS	259	552	363	193	47	1350	19.6	419	213	493	223
TOT PCT	14.9	40.9	26.9	9.9	3.5	100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1903-1973
(OVER-ALL) 1855-1973

APEA 0015 PUERTO DESEADO
47.45 62.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND SPEED (KNOTS)	HOUR	CALM	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
			1-3	4-10	11-21	22-33					34-47
0000	1.7	6.7	37.7	32.5	15.5	5.3	.7	14.3	100.0	419
0600	1.9	9.9	32.4	38.6	15.0	2.3	1.9	14.1	100.0	213
1200	2.0	5.3	25.3	37.8	20.6	8.9	2.2	17.1	100.0	495
1800	.9	2.2	35.9	38.8	17.5	4.9	1.8	15.9	100.0	223
TOT	23	80	437	483	238	72	22	15.6		1950
PCT	1.7	5.9	32.0	35.8	17.6	5.3	1.8	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	1.0	.0	2.0	1.0	3.2	.0
E	.0	2.0	.0	.0	3.5	.0
SE	1.0	.0	.0	1.0	4.5	.0
S	2.8	2.6	1.8	.5	3.5	.0
SW	4.3	6.6	7.4	3.8	4.4	.0
W	3.6	.0	3.6	3.3	4.3	.0
NW	7.7	7.1	11.0	2.8	4.1	.0
VAR	.0	.0	.0	.0	.0	.0
CALM	2.0	.0	.0	.0	1.0	.0
TOT OBS	32	20	30	16	98	4.1
TOT PCT	32.7	20.4	30.8	16.1	100.0	

TABLE 6

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

WIND DIR	000	150	300	400	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.8	.0	1.8	.0	.0	.0	.0	.0	14.3	419
NE	.0	.0	.0	.0	1.0	1.0	.0	1.0	.0	.0	1.0	213
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	495
SE	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.0	223
S	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	6.6	223
SW	.0	.0	.0	.0	4.1	2.0	2.0	.0	.0	1.0	13.0	495
W	.0	.0	.0	.0	2.6	1.0	.0	1.0	.0	.0	7.9	223
NW	.0	.0	.9	.0	1.8	1.0	1.0	1.0	.0	1.0	22.4	495
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	213
TOT OBS	7	0	1	0	13	5	3	3	0	2	89	98
TOT PCT	2.0	.0	1.0	.0	13.3	5.1	3.1	3.1	.0	2.0	70.4	100.0

TABLE 7

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

CEILING (F8FT)	VSBY (NM)							
	>10	>8	>2	>1	>1/2	>1/4	>50YD	>0
>4500	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
>3000	5.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
>2500	5.1	8.1	8.1	9.1	9.1	9.1	9.1	9.1
>2000	9.1	13.1	13.1	14.1	14.1	14.1	14.1	14.1
>1000	21.2	26.3	26.3	27.3	27.3	27.3	27.3	27.3
>600	21.2	26.3	26.3	27.3	27.3	27.3	27.3	27.3
>300	22.2	27.3	27.3	28.3	28.3	28.3	28.3	28.3
>150	22.2	27.3	27.3	28.3	28.3	28.3	28.3	28.3
>0	22.2	27.3	27.3	28.3	28.3	28.3	28.3	28.3
TOTAL	22	27	27	28	28	29	29	30

TOTAL NUMBER OF OBS: 99

PCT FREQ NH <5/8: 69.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	23.4	13.3	12.6	4.5	13.5	3.6	6.3	9.0	11.7	1.8	111

MARCH

PERIOD: (PRIMARY) 1903-1973
(OVER-ALL) 1855-1973

AREA 0013 PUERTO RISEADO
47.43 63.04

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.1	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	1.7
	TOT %	1.1	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	1.7
1/2<1	PCP	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.4
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.4
1<2	PCP	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.4
	NO PCP	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	TOT %	.6	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	1.1
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.3	.1	.0	.0	.0	.3	.3	2.0	.0	.0	.0	4.0
	TOT %	1.3	.1	.0	.0	.0	.3	.3	2.0	.0	.0	.0	4.0
5<10	PCP	1.1	.0	.0	.0	.0	.6	.6	1.1	.0	.0	.0	3.4
	NO PCP	3.6	.6	1.1	.6	2.0	1.4	3.7	8.2	.0	.0	.0	23.2
	TOT %	4.7	.6	1.1	.6	2.0	2.0	4.3	9.3	.0	.0	.0	26.6
10+	PCP	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.6
	NO PCP	11.7	2.3	1.1	1.1	5.4	13.7	10.0	19.1	.0	1.1	.0	65.5
	TOT %	11.7	2.3	1.1	1.1	5.4	13.7	10.3	19.4	.0	1.1	.0	66.1
TOT OBS													177
TOT PCT		21.9	3.0	2.3	1.7	7.3	16.3	15.4	31.2	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (MM)	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	.0
	4-10	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9
	11-21	.0	.0	.0	.0	.0	.0	.2	.7	.0	.0	.0	.9
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.9	.0	.0	.0	.0	.0	.2	.7	.0	.0	.0	1.7
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4
	11-21	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.9
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.7	.2	.0	.0	.0	.4	.0	.0	.0	.0	.0	1.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.7	.2	.0	.0	.0	.4	.0	.0	.0	.0	.0	1.3
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.0	.0	.0	.0	.2	.2	1.1	.0	.0	.0	1.7
	11-21	1.2	.1	.0	.0	.0	.0	.0	.8	.0	.0	.0	2.3
	22+	.2	.0	.0	.0	.0	.4	.0	.7	.0	.0	.0	1.3
	TOT %	1.6	.1	.0	.0	.0	.7	.2	2.6	.0	.0	.0	5.2
5<10	0-3	.4	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	1.2
	4-10	.9	.4	.9	.0	.7	.2	.4	4.8	.0	.0	.0	8.3
	11-21	3.1	.4	.0	.4	.7	1.5	1.7	2.6	.0	.0	.0	10.3
	22+	1.3	.2	.0	.0	.9	.7	.9	.4	.0	.0	.0	4.4
	TOT %	5.7	1.1	1.3	.4	2.2	2.4	3.5	7.9	.0	.0	.0	24.3
10+	0-3	.9	.4	.0	.2	.2	.4	.0	.0	.0	1.7	.0	3.9
	4-10	6.6	.4	.7	.7	1.9	3.8	4.8	8.6	.0	.0	.0	24.9
	11-21	2.3	1.1	.4	.4	2.7	7.8	3.2	10.0	.0	.0	.0	27.9
	22+	.4	.0	.0	.0	1.3	4.9	1.5	1.4	.0	.0	.0	9.6
	TOT %	10.2	2.0	1.1	1.3	6.1	16.7	9.3	18.0	.0	1.7	.0	66.4
TOT OBS													229
TOT PCT		19.4	3.4	2.4	1.7	8.3	20.2	13.6	29.1	.0	1.7	100.0	

MARCH

PERIOD: (PRIMARY) 1903-1973
(OVER-ALL) 1855-1973

AREA 0015 PUERTO RISEADO
47.45 63.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND OCCURRENCE OF M' <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	399	499	1999	3499	4999	6499	7999				
0000	.0	.0	.0	.0	10.5	.0	5.3	5.3	.0	.0	21.1	78.9	19
0600	3.6	.0	.0	.0	10.7	.0	3.6	3.6	.0	.0	21.4	78.6	28
1200	3.3	.0	.0	.0	13.3	6.7	.0	.0	.0	6.7	30.0	70.0	30
1800	.0	.0	3.6	.0	14.3	10.7	3.6	3.6	.0	3.6	39.3	60.7	28
TOT	2	0	1	0	13	3	3	3	0	3	30	75	109
PCT	1.9	.0	1.0	.0	12.4	4.8	2.9	2.9	.0	2.9	28.6	71.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
0000	3.0	1.5	1.5	6.0	31.3	56.7	97
0600	2.0	2.0	.0	9.8	23.5	62.7	91
1200	1.6	.0	.0	3.3	11.6	70.5	61
1800	.0	.0	3.6	1.8	23.2	71.4	56
TOT	4	2	3	12	61	193	289
PCT	1.7	.9	1.3	5.1	26.0	69.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NM >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NM <5/8 AND 5+	TOTAL
(GMT)	<3000	<1	<5	AND 5+	AND 5+	OBS
0000	.0	.0	5.3	21.1	73.7	19
0600	3.7	3.7	3.7	18.3	77.8	27
1200	3.7	3.7	3.7	29.6	66.7	27
1800	.0	3.6	7.7	34.6	97.7	26
TOT	2	3	5	26	68	99
PCT	2.0	3.0	5.1	26.3	66.7	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	PCT
									OBS	FREQ
65/69	.0	.0	.0	.0	.0	.5	.5	.0	2	1.1
66/64	.0	.0	.0	.0	1.6	3.3	2.2	.5	18	9.8
67/59	.0	.0	.0	.0	2.2	14.8	16.9	9.8	60	43.7
68/54	.0	.0	.0	3.9	3.8	3.3	16.4	10.4	69	37.7
69/49	.0	.0	.0	.9	1.1	4.9	1.1	.0	14	7.7
TOTAL	0	0	0	8	16	33	68	38	183	100.0
PCT	.0	.0	.0	4.4	9.7	20.0	37.2	20.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALN
.0	.0	.5	.0	.0	.0	.5	.0	.0	.0
1.9	.0	.0	.0	1.1	.8	1.6	3.8	.0	.3
8.7	1.1	1.1	.5	1.9	7.0	6.4	16.9	.0	.0
10.2	1.2	.5	.0	2.2	8.9	3.7	8.9	.0	.0
.3	.0	.0	.5	1.9	1.1	2.3	.8	.0	.3
21.2	2.3	2.2	1.1	7.1	17.8	16.8	30.3	.0	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
0000	64	63	60	54	49	47	46	54.1	399
0600	64	60	59	54	48	47	47	52.6	206
1200	68	65	62	53	49	46	46	53.4	484
1800	69	65	63	56	49	48	46	56.4	203
TOT	69	64	61	55	49	47	46	54.9	1272

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
0000	.0	.0	7.8	29.4	33.3	29.4	8.9	8.9	51	
0600	.0	2.2	4.9	20.0	42.2	26.7	8.4	8.4	49	
1200	.0	6.0	8.0	32.0	40.0	14.0	8.0	8.0	50	
1800	.0	9.3	11.6	32.6	34.9	11.6	7.8	7.8	43	
TOT	0	8	17	34	71	39	61	61	189	

MARCH

PERIOD: (PRIMARY) 1963-1973
(OVER-ALL) 1959-1973

ARE J15 PUERTO RISEADO
47.43 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	45 48	49 52	52 56	57 60	61 64	65 68	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.0	1.1	.0	2	.0	1.1
7/8	.0	.0	.0	1.1	1.1	.0	6	.0	3.4
6	.0	.0	1.1	1.1	.0	.0	4	.0	2.2
5	.0	.0	.0	1.7	.6	.0	5	.0	2.8
4	.0	.0	2.2	3.4	.6	.0	11	.0	6.2
3	.0	2.2	2.8	1.7	1.1	.0	14	.0	7.9
2	.0	1.7	7.9	4.3	1.1	.0	27	.0	15.2
1	.0	4.8	6.2	2.8	.0	.0	24	.6	12.9
0	.0	4.8	6.7	2.2	.6	.0	28	1.7	17.9
-1	.0	5.6	6.2	.4	.0	.0	22	1.1	1.2
-2	.0	1.1	4.3	.0	.0	.0	10	.0	5.6
-3	1.7	2.2	2.8	.0	.0	.0	12	.0	6.7
-4	.6	.0	1.7	1.1	.0	.0	6	.0	3.4
-5	.0	1.7	.6	.0	.0	.0	4	.0	2.2
-6	.6	.6	.6	.0	.0	.0	3	.0	1.7
-7/-8	.0	.6	.0	.0	.0	.0	1	.0	.6
-9/-10	.0	.0	.6	.0	.0	.0	1	.0	.6
TOTAL	8	44	80	36	11	1	178	6	172
PCT	3.4	24.7	44.9	20.2	6.2	.6	100.0	3.4	96.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	2.3	2.3	.0	.0	.0	.0	4.7	.0	.0	.0	.0	.0	.0	.0
1-2	.0	12.8	.0	.0	.0	.0	12.8	.0	.0	.0	.0	.0	.0	.0
3-4	.0	7.0	.0	.0	.0	.0	7.0	.0	.0	2.3	.0	.0	.0	2.3
5-6	.0	7.0	.0	.0	.0	.0	7.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.3	.0	.0	.0	2.3	.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	2.3	22.1	2.3	.0	.0	.0	28.7	.0	.0	2.3	.0	.0	.0	2.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<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	2.3	.0	.0	.0	.0	2.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	2.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	2.3	2.3	.0	.0	.0	4.7

PERIOD: (OVER-ALL) 1953-1975

MARCH

AREA 0015 PUERTO RISEADO
47.4S 63.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<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	2.3	.0	.0	2.3	.0	.0	4.7	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	2.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	2.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	.0	.0	7.0
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	.0	4.7	7.0	9.3	.0	23.3

HGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	8.1	2.3	.0	.0	10.3
3-4	.0	4.1	.0	.0	.0	.0	4.1	.0	.0	.0	7.0	.0	.0	7.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	2.3	.0	.0	9.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	2.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	2.3	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.1	2.3	2.3	.0	.0	8.7	.0	.0	8.7	16.3	4.7	.0	29.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.8	4.5	.0	.0	.0	.0	11.4	68
1-2	.0	27.3	9.1	.0	.0	.0	36.4	68
3-4	.0	4.5	9.1	2.3	.0	.0	15.9	68
5-6	.0	6.8	6.8	2.3	.0	.0	15.9	68
7	.0	.0	6.8	2.3	.0	.0	9.1	68
8-9	.0	.0	.0	2.3	.0	.0	2.3	68
10-11	.0	.0	.0	9.1	.0	.0	9.1	68
12	.0	.0	.0	.0	.0	.0	.0	68
13-16	.0	.0	.0	.0	.0	.0	.0	68
17-19	.0	.0	.0	.0	.0	.0	.0	68
20-22	.0	.0	.0	.0	.0	.0	.0	68
23-25	.0	.0	.0	.0	.0	.0	.0	68
26-32	.0	.0	.0	.0	.0	.0	.0	68
33-40	.0	.0	.0	.0	.0	.0	.0	68
41-48	.0	.0	.0	.0	.0	.0	.0	68
49-60	.0	.0	.0	.0	.0	.0	.0	68
61-70	.0	.0	.0	.0	.0	.0	.0	68
71-86	.0	.0	.0	.0	.0	.0	.0	68
87+	.0	.0	.0	.0	.0	.0	.0	68
TOT PCT	6.8	43.2	31.6	16.2	.0	.0	100.0	68

PERIOD: (OVER-ALL) 1950-1975

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	10.2	12.2	17.3	2.0	1.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	4
6-7	.0	2.0	5.1	7.1	6.1	1.0	1.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	6
8-9	.0	2.0	.0	1.0	2.0	4.1	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	7
10-11	.0	.0	3.1	1.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
12-13	.0	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
>13	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	11
INDET	1.0	1.0	6.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	3
TOTAL	2	18	26	27	12	6	5	2	3	0	0	0	0	0	0	0	0	0	0	98	3
PCT	2.0	18.3	26.5	27.6	12.2	6.1	5.1	2.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1871-1973

APRIL

AREA 0015 PUERTO RIESAFO
47.53 63.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	#DG WD PCPN #AST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0	10.3	.0	.0	.0	86.9
NE	25.0	.0	.0	.0	.0	.0	.0	29.0	.0	.0	14.3	.0	.0	.0	40.7
E	71.4	.0	.0	.0	.0	.0	.0	71.4	.0	.0	.0	.0	.0	.0	28.6
SE	.0	44.4	.0	.0	.0	.0	.0	44.4	.0	.0	.0	.0	.0	.0	55.6
S	.0	.0	.0	.0	.0	.0	5.3	5.3	.0	.0	10.7	.0	.0	.0	84.0
SW	.0	4.3	2.3	.0	.0	.0	.0	6.8	2.3	.0	.0	.0	.0	.0	90.9
W	.0	5.0	2.3	.0	.0	.0	.0	7.3	.0	2.3	8.8	.0	.0	.0	81.3
NW	1.6	.0	.0	.0	.0	.0	.0	1.6	.0	1.6	7.1	.0	.0	.0	89.7
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	3.1	2.2	.9	.0	.0	.0	.4	6.7	.9	.9	7.1	.0	.0	.0	84.4
TOT OBS:	224														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	#DG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	3.9	.0	2.0	.0	.0	.0	2.0	7.8	2.0	2.0	5.9	.0	.0	.0	82.4
0600	4.5	.0	2.2	.0	.0	.0	.0	8.7	.0	2.2	4.3	.0	.0	.0	84.8
1200	2.7	5.3	.0	.0	.0	.0	.0	8.0	.0	.0	5.3	.0	.0	.0	84.0
1800	.0	1.8	.0	.0	.0	.0	.0	1.8	1.8	.0	8.8	.0	.0	.0	87.7
TOT PCT	3.1	2.2	.9	.0	.0	.0	.4	6.6	.9	.9	7.0	.0	.0	.0	84.7
TOT OBS:	229														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.6	3.9	3.3	2.0	.0	.0	11.9	14.0	11.9	11.6	14.1	7.8	13.0	12.3	21.5	11.4
NE	.6	1.1	1.3	.6	.0	.0	3.9	12.1	2.9	5.1	7.8	4.3	4.3	2.9	4.7	3.3
E	.2	1.2	.8	.3	.0	.0	2.3	12.0	1.5	2.6	.0	2.2	1.9	7.6	.0	2.6
SE	.5	1.8	1.3	.5	.2	.0	4.3	12.3	4.8	5.1	.0	4.6	4.3	4.1	.0	4.9
S	.8	3.4	3.1	1.7	1.2	.4	10.6	17.8	11.8	12.0	2.3	9.3	10.8	10.3	8.1	11.7
SW	.7	4.2	7.1	3.4	2.8	1.6	21.8	22.3	19.5	19.1	23.8	22.4	22.3	23.8	19.1	23.1
W	.8	4.3	9.2	5.1	1.3	.4	21.1	18.1	20.1	18.0	17.2	22.4	22.2	23.5	21.5	19.4
NW	.6	6.7	8.9	3.2	1.4	.3	22.6	17.4	23.9	24.7	32.8	24.4	20.7	18.1	24.1	21.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	1.5	1.7	.0	2.2	.3	1.4	.0	2.3
TOT OBS	81	348	482	273	91	33	1310	17.5	197	179	32	183	213	292	43	175
TOT PCT	6.2	28.6	36.8	20.8	6.9	2.7	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40				00	03	06	09	12	15	18	21
N	2.0	3.3	3.9	.7	.0	11.9	14.0	11.8	8.7	12.6	13.4			
NE	1.6	1.1	1.4	.6	.0	3.9	12.1	4.0	5.0	3.5	3.6			
E	.7	1.0	.4	.2	.0	2.3	12.0	2.0	1.9	2.9	2.1			
SE	1.7	1.3	.7	.4	.1	4.3	12.3	5.0	4.0	4.2	3.9			
S	2.3	3.5	2.6	1.2	1.0	10.6	17.8	11.9	8.3	10.5	11.0			
SW	2.0	6.3	6.8	3.9	2.8	21.8	22.3	19.4	22.9	23.2	21.6			
W	2.3	7.7	8.3	2.0	.9	21.1	18.1	19.1	21.6	23.0	19.8			
NW	2.4	8.1	9.0	2.3	.6	22.6	17.4	23.3	25.8	19.2	22.8			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	1.5					1.5	.0	1.6	1.9	1.0	1.8			
TOT OBS	210	451	434	143	72	1310	17.5	372	215	505	218			
TOT PCT	16.0	34.4	33.1	10.9	5.3	100.0		100.0	100.0	100.0	100.0			

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1871-1973

APRIL

AREA 0013 PUERTO RISEADO
47.33 62.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	1.6	5.6	27.2	40.3	17.5	5.1	2.7	16.4	100.0	372
0600Z	1.9	3.3	34.4	32.6	18.6	6.0	3.3	17.0	100.0	215
1200Z	1.0	5.1	25.0	33.3	24.2	8.5	3.0	18.3	100.0	505
1800Z	1.8	3.7	21.6	43.1	21.1	7.3	1.4	17.6	100.0	218
TOT	1.9	6.2	34.8	48.2	27.3	9.1	3.5	17.5		1310
PCT	1.9	4.7	26.6	36.8	20.6	6.9	2.7	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCL	TOTAL OBS	MEAN CLOUD COVER
NP	.4	.8	.0	1.4		6.0
E	.0	.0	.8	.0		6.0
SE	.0	.0	.2	.8		7.8
S	2.1	.6	4.0	.8		4.7
SN	12.7	4.2	5.8	2.3		2.2
W	4.0	4.0	8.7	3.1		4.7
NH	13.8	2.1	6.3	3.3		3.6
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	190	4.2
TOT OBS	43	21	40	24	190	
TOT PCT	34.6	16.2	30.8	18.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)											NH <5/8 ANY 4/8	TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+	ANY		
N	1.5	.0	.8	1.5	3.7	1.7	.0	.0	.0	.0	.0	11.2	
NP	.0	.0	.8	.0	.8	.2	.0	.0	.0	.0	.0	1.3	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SE	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.2	
S	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	5.2	
SN	.0	.0	.0	.0	1.3	1.5	.0	.0	.0	.0	.0	21.9	
W	.0	.0	.0	.8	2.3	.8	3.5	.0	.0	.0	.0	12.5	
NH	.0	.0	.0	1.5	.2	1.9	1.2	.0	.0	.0	.8	16.9	
VAR	.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	
TOT OBS	2	0	2	5	13	8	7	0	0	0	1	90	130
TOT PCT	1.5	.0	1.5	3.2	11.3	6.2	3.4	.0	.0	.0	.8	67.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>3	>2	>1	>1/2	>1/4	>30YD	>0
>8000	.8	.8	.8	.8	.8	.8	.8	.8
>3000	.3	.8	.8	.8	.8	.8	.8	.8
>1500	3.8	5.3	5.3	6.1	6.1	6.1	6.1	6.1
>2000	6.1	10.6	10.6	11.4	11.4	11.4	11.4	11.4
>1000	17.4	23.5	23.5	24.2	24.2	24.2	24.2	24.2
>500	19.7	27.3	27.3	28.0	28.0	28.0	28.0	28.0
>300	20.5	28.8	28.8	29.3	29.3	29.3	29.3	29.3
>150	20.5	28.8	28.8	29.3	29.3	29.3	29.3	29.3
>0	20.5	28.8	28.8	31.1	31.1	31.1	31.1	31.1
TOTAL	27	38	38	41	41	41	41	41

TOTAL NUMBER OF OBS: 132 PCT FREQ NH <5/8: 68.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL OBS
	24.4	14.6	12.4	1.8	10.2	2.2	6.6	7.3	14.6	137

APRIL

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1871-1973

AREA 019 PUERTO RISEADO
47.85 69.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.4	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	1.3
	TOT %	.4	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	1.3
1/2<1	PCP	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4
1<2	PCP	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4
	NO PCP	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9
	TOT %	.9	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	1.3
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.2	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.9
	TOT %	.2	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.9
5<10	PCP	.0	1.3	.9	.0	.0	.9	.9	.4	.0	.0	.0	4.5
	NO PCP	6.3	2.8	.4	.0	3.1	4.7	5.6	12.6	.0	.0	.0	35.0
	TOT %	6.3	3.8	1.3	.0	3.1	5.6	6.5	13.0	.0	.0	.0	39.5
10+	PCP	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4
	NO PCP	9.3	2.2	.0	.0	4.8	13.7	11.2	19.8	.0	.0	.0	59.8
	TOT %	9.3	2.2	.0	.0	4.8	14.1	11.2	19.8	.0	.0	.0	60.2
TOT OBS													229
TOT PCT		17.2	9.1	1.3	1.0	8.4	19.7	17.9	26.4	.0	.0	.0	100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (MM)	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	.0
	4-10	.4	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	1.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.4	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	1.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4
	TOT %	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4
	11-21	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
	22+	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.8
	TOT %	.7	.0	.0	.8	.0	.0	.4	.0	.0	.0	.0	1.9
2<5	0-3	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.4
	4-10	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.8
	11-21	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
	22+	.2	.0	.0	.0	.0	.0	.8	.2	.0	.0	.0	.4
	TOT %	.2	.0	.0	.4	.2	.5	.8	.5	.0	.0	.0	1.8
5<10	0-3	.0	.4	.0	.4	.0	.0	.0	1.1	.0	.0	.0	1.8
	4-10	.5	.2	.9	.7	.7	.2	2.3	4.1	.0	.0	.0	9.7
	11-21	3.0	1.9	.2	.0	1.4	2.3	2.0	3.2	.0	.0	.0	14.0
	22+	1.7	.8	.7	.0	.4	2.3	1.4	2.7	.0	.0	.0	10.0
	TOT %	3.2	3.2	1.8	1.1	2.3	4.8	3.7	11.1	.0	.0	.0	39.5
10+	0-3	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4
	4-10	2.6	.2	.0	1.4	1.6	4.3	1.3	4.3	.0	.0	.0	16.1
	11-21	3.0	2.0	.0	.4	2.4	3.0	6.3	6.4	.0	.0	.0	25.8
	22+	3.0	1.4	.0	.0	1.1	3.4	4.3	2.8	.0	.0	.0	17.9
	TOT %	8.6	3.6	.0	1.9	5.1	13.1	12.4	13.6	.0	.0	.0	60.2
TOT OBS													279
TOT PCT		19.1	6.8	1.8	3.7	7.8	20.4	18.3	26.0	.0	.0	.0	100.0

APRIL

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1871-1973

AREA 0015 PUERTO DESEADO
47.95 63.14

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000Z	.0	.0	.0	4.2	20.8	8.3	12.5	.0	.0	4.2	50.0	50.0	24
0600Z	.0	.0	.0	.0	3.6	10.7	3.6	.0	.0	.0	17.9	82.1	28
1201Z	2.3	.0	2.3	2.3	14.0	4.7	7.0	.0	.0	.0	32.6	67.4	47
1802Z	2.5	.0	2.5	7.5	12.5	2.5	.0	.0	.0	.0	27.5	72.5	40
TOT	2	0	2	5	17	8	7	0	0	1	42	93	135
PCT	1.5	.0	1.5	3.7	12.6	5.9	5.2	.0	.0	.7	31.1	69.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000Z	.0	.0	.0	2.7	41.9	55.4	74
0600Z	1.9	.0	1.9	3.7	33.3	59.3	34
1201Z	2.2	.0	1.1	.0	37.9	60.9	92
1802Z	.0	1.6	1.6	1.6	29.7	65.6	64
TOT	3	1	3	5	101	171	284
PCT	1.1	.4	1.1	1.8	35.6	60.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000Z	.0	.0	8.3	45.8	45.8	24
0600Z	.0	.0	3.7	14.8	81.5	27
1201Z	2.4	4.8	7.1	23.8	69.0	42
1802Z	2.6	5.1	15.4	15.4	69.2	39
TOT	2	4	12	31	89	132
PCT	1.5	3.0	9.1	23.5	67.4	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
60/64	.0	.0	.0	.0	.5	1.8	.0	.5	6	2.8
59/59	.0	.0	.0	1.4	.9	3.0	9.6	4.1	46	21.1
50/54	.0	.0	.0	.5	5.0	7.8	21.6	12.4	109	47.2
48/49	.0	.0	.0	.9	2.8	5.0	7.8	7.3	52	23.9
46/44	.0	.0	.0	.9	.9	2.3	1.4	.0	11	5.0
TOTAL	0	0	0	7	27	48	88	53	218	100.0
PCT	.0	.0	.0	3.2	10.1	22.0	40.4	24.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.6	.5	.0	.0	.0	.0	.3	1.4	.0	.0
59/59	6.4	1.1	.0	.0	.5	1.6	3.3	9.2	.0	.0
50/54	8.9	2.5	.0	.0	3.1	7.5	7.9	17.3	.0	.0
48/49	2.1	3.0	.9	.9	2.5	6.2	4.8	3.4	.0	.0
46/44	.0	.0	.0	.1	2.4	2.3	.2	.0	.0	.0
TOTAL	18.0	6.1	.9	1.0	3.5	17.5	16.6	31.3	.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
0000Z	60	59	56	50	42	40	38	50.2	360
0600Z	61	58	57	50	47	39	39	49.8	210
1201Z	63	61	58	51	44	42	40	51.2	479
1802Z	62	60	58	52	44	40	39	51.7	216
TOT	63	60	57	51	43	40	38	50.8	1265

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	3.0	11.6	15.7	37.3	19.4	52	51		
0600Z	.0	6.9	7.8	15.3	38.6	31.8	33	44		
1201Z	.0	1.4	6.9	10.4	41.7	23.4	83	72		
1802Z	.0	1.8	7.5	20.8	44.5	12.5	50	56		
TOT	0	8	22	49	91	53	92	229		

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1971-1973

APRIL

AREA 0015 PUERTO RISEADO
47.35 63.14

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	43 48	49 52	53 56	57 60	61 64	TCT	M FOG	NO FOG
9/10	.0	.0	.0	.0	.0	1.3	.0	3	.0	1.3
7/8	.0	.0	.0	.0	.0	.4	.0	1	.0	.4
6	.0	.0	.0	.0	1.8	1.8	.0	6	.0	3.6
5	.0	.0	.0	.0	3.9	1.8	.0	12	.0	3.9
4	.0	.0	.0	.4	4.0	.0	.4	12	.0	3.9
3	.0	.0	.0	4.4	4.9	.0	.0	21	.9	8.4
2	.0	.0	.0	5.3	6.2	.0	.0	26	1.8	9.8
1	.0	.0	.0	9.3	7.4	.4	.0	34	.4	14.7
0	.0	.4	4.0	4.9	2.7	.0	.0	27	1.8	10.2
-1	.0	.4	2.2	5.1	1.3	.0	.0	16	.4	6.7
-2	.0	.4	3.1	1.6	2.7	.0	.0	22	.9	8.9
-3	.0	.4	3.1	1.8	.0	.0	.0	12	.0	5.3
-4	.0	.4	.9	2.2	.4	.0	.0	9	.9	3.1
-5	.0	.4	.9	.9	.0	.0	.0	9	.0	4.0
-6	.4	.0	.0	.9	.0	.0	.0	3	.0	1.3
-7/-8	.0	.4	.4	.4	.0	.0	.0	4	.0	1.8
-9/-10	.4	.4	.9	.0	.0	.0	.0	5	.0	1.3
-11/-13	.0	.0	1.3	.0	.0	.0	.0	16	.0	2.9
TOTAL	2	12	40	85	15	1	1	223	7.1	92.9
PCT	.9	5.3	17.8	37.8	32.0	5.8	.4	100.0	7.1	92.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

KGT	NE						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.2	12.7	1.9	.0	.0	19.8	.0	.0	4.2	.0	.0	.0	4.2

PERIOD: (OVER-ALL) 1963-1973

APRIL

AREA 0013 PUERTO RISEADO
47.95 63.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	SW						PCT	NW						TOTAL PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.9	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	1.9
1-2	.0	1.4	.0	.0	.0	.0	1.4	.0	6.1	.0	.0	.0	.0	.0	6.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	1.9
5-6	.0	.0	1.9	1.9	.0	.0	3.8	.0	.0	3.7	.0	.0	.0	.0	3.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.9	.0	.0	.0	2.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	1.9	1.9	.0	.0	7.1	1.9	6.1	8.0	1.9	.0	.0	.0	17.9

HGT	W						PCT	NW						TOTAL PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	8.0	.0	.0	.0	.0	.0	8.0
3-4	.0	3.3	3.3	.0	.0	.0	7.1	.0	4.2	7.5	1.9	.0	.0	.0	13.7
5-6	.0	.0	1.9	1.9	.0	.0	3.2	.0	.0	6.1	.0	.0	.0	.0	6.1
7	.0	.0	3.2	1.4	.0	.0	6.6	.0	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	1.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	12.3	3.3	.0	.0	16.9	.0	12.3	13.7	4.2	.0	.0	.0	30.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.4	3.6	.0	.0	.0	.0	6.9	
1-2	1.8	17.9	1.2	.0	.0	.0	21.4	
3-4	.0	8.9	14.3	1.8	.0	.0	23.0	
5-6	.0	.0	23.0	3.6	.0	.0	23.6	
7	.0	.0	7.1	3.6	.0	.0	10.7	
8-9	.0	.0	1.8	.0	.0	.0	1.8	
10-11	.0	.0	.0	1.8	.0	.0	1.8	
12	.0	.0	.0	1.8	.0	.0	1.8	
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	7.1	30.4	30.0	12.3	.0	.0	100.0	36

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-14	15-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	1.0	7.6	16.2	8.6	1.0	1.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
6-7	.0	.0	2.9	7.6	10.3	2.9	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
8-9	.0	.0	1.0	1.9	1.9	2.9	1.9	1.9	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9
10-11	.0	.0	1.0	1.9	2.9	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
12-13	.0	.0	1.9	1.9	1.0	1.9	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
13	.0	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
INDTY	1.9	.0	1.9	1.0	1.9	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
TOTAL	3	8	26	20	14	8	1	8	1	1	0	0	0	0	0	0	0	0	0	0	0	109
PCT	2.9	7.6	24.8	22.9	19.0	11.4	3.8	5.7	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1903-1972
(OVER-ALL) 1869-1972

MAY

AREA 0015 PUERTO RISEADO
47.4S 62.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZLN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG
N	.0	3.1	3.1	.0	.0	.0	.0	6.2	6.2	3.1	6.2	.0	.0	.0	77.5
NE	.0	.0	13.3	.0	.0	.0	.0	13.3	.0	.0	8.9	.0	.0	.0	77.8
E	.0	.0	.0	.0	.0	.0	.0	.0	40.0	.0	.0	.0	.0	.0	60.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	8.7	.0	.0	.0	8.7	.0	82.6
S	24.5	.0	.0	.0	.0	.0	.0	24.5	.0	2.0	.0	.0	.0	.0	73.3
SW	3.8	2.9	3.8	.0	.0	.0	.0	14.5	.0	1.4	13.0	.0	.0	.0	71.0
W	.0	2.9	.0	.0	.0	.0	.0	2.9	.0	.0	21.7	.0	.0	.0	73.4
NW	.0	1.3	.0	.0	.0	.0	.0	1.3	.0	3.8	3.1	.0	2.6	.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	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.6	1.7	2.3	.0	.0	.0	.0	8.6	1.7	1.7	9.2	.0	1.1	.0	77.6
TOT OBS:	174														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZLN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG
0800	6.3	4.2	6.3	.0	.0	.0	.0	16.7	.0	2.1	10.4	.0	2.1	.0	88.8
0809	2.4	.0	.0	.0	.0	.0	.0	2.4	4.9	4.9	7.3	.0	.0	.0	80.3
1201	3.8	1.9	.0	.0	.0	.0	.0	3.8	1.9	1.9	9.6	.0	1.9	.0	78.8
1821	3.4	.0	2.7	.0	.0	.0	.0	6.1	.0	.0	8.1	.0	.0	.0	83.8
TOT PCT	4.5	1.7	2.2	.0	.0	.0	.0	8.4	1.7	2.2	9.0	.0	1.1	.0	77.8
TOT OBS:	178														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.8	3.4	4.4	2.7	.8	.0	12.3	16.3	12.7	12.0	4.2	14.1	12.6	11.9	3.6	13.3	
NE	.6	2.0	2.6	.7	.0	.0	3.8	12.3	7.2	8.0	10.8	4.7	4.9	3.4	3.6	4.9	
E	.2	1.6	1.0	.6	.0	.0	3.4	11.9	4.5	3.3	3.3	3.4	2.7	3.4	.0	3.2	
SE	.4	1.7	1.7	.7	.0	.0	4.6	13.2	4.5	5.9	3.0	6.3	3.8	3.4	3.4	2.1	
S	.8	3.2	2.9	1.8	1.7	.5	10.6	20.0	11.3	11.2	20.0	9.6	11.3	8.1	19.2	11.6	
SW	.7	3.0	4.9	3.7	2.4	1.9	18.3	22.2	18.7	19.8	18.3	15.6	17.6	16.3	21.4	20.6	
W	.9	3.9	10.2	3.4	1.3	.7	24.3	17.9	22.9	23.0	16.7	24.7	22.1	29.3	18.8	23.3	
NW	.4	4.6	8.7	3.8	1.4	.2	19.1	17.3	17.8	13.0	21.7	19.0	21.4	19.0	32.1	19.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.2						1.2	.0	.8	1.6	.0	2.6	1.3	.0	.0	1.1	
TOT OBS	80	390	322	276	109	47	1424	17.7	222	187	30	182	224	332	28	189	
TOT PCT	9.6	27.4	36.7	19.6	7.7	3.3	100.0	17.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-3	7-16	17-27	28-40				00	03	12	18
N	2.0	4.7	3.8	1.6	.2	12.3	16.3	12.4	12.7	12.7	12.2
NE	1.9	2.4	1.8	.2	.0	3.8	12.3	7.6	3.3	3.2	4.6
E	1.2	1.1	.9	.1	.0	3.4	11.9	4.0	3.4	3.1	2.8
SE	1.1	1.8	1.6	.1	.0	4.6	13.2	3.1	6.1	4.8	2.5
S	1.6	3.4	2.7	1.7	1.2	10.6	20.0	11.2	11.0	9.4	11.9
SW	2.8	3.2	4.6	3.1	2.8	18.3	22.2	19.2	16.0	18.1	20.7
W	3.0	8.5	9.2	2.8	1.1	24.3	17.9	22.9	23.6	24.6	22.9
NW	2.1	7.7	6.7	2.1	1.6	19.1	17.3	16.3	19.4	20.0	21.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2					1.2	.0	1.0	2.3	1.0	.9
TOT OBS	233	492	445	167	83	1424	17.7	409	222	376	217
TOT PCT	16.3	34.6	31.2	11.7	6.0	100.0	17.7	100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1903-1972
(OVER-ALL) 1869-1972

AREA 0015 PUERTO RISEADO
47.45 62.84

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000Z	1.0	4.2	29.3	36.4	18.6	7.3	3.2	17.5	100.0	409
0600Z	2.3	5.0	29.3	34.2	19.4	6.8	3.2	17.0	100.0	222
1200Z	1.0	4.9	24.7	37.7	20.0	8.3	3.5	18.0	100.0	576
1800Z	.9	3.2	29.0	36.9	19.4	7.4	3.2	17.8	100.0	217
TOT	17	43	390	522	276	109	47	17.7		1424
PCT	1.2	4.4	27.4	36.7	19.4	7.7	3.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 8 OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	1.8	.2	.5	2.1		4.9
E	.0	.0	.0	.0		8.0
SE	.9	.0	6.9	.0		6.1
S	1.6	1.1	8.2	8.9		6.6
SW	3.9	2.3	8.5	8.0		5.3
W	4.4	9.9	3.4	3.7		4.9
NH	3.4	4.8	14.7	2.1		5.3
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	19	15	46	29	109	5.9
TOT PCT	17.4	13.8	42.2	26.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL ANY HGT	TOTAL OBS
N	.0	.5	.7	.0	.0	.7	1.8	.0	.0	.0	.0	3.0	
NE	.0	.5	.2	.0	.0	.0	1.8	.0	.0	.0	.0	2.1	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SE	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	4.6	
S	.0	.0	.0	6.4	2.3	.9	3.7	.0	.0	.0	.0	3.7	
SW	.0	.0	.0	1.8	4.1	.9	2.5	.0	.9	.0	.0	10.6	
W	.0	.0	.7	.0	1.4	.9	.7	.0	.0	.0	.0	12.8	
NH	.0	.0	1.1	.0	.2	2.1	2.8	.9	.0	.0	.0	17.4	
VAR	.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	
TOT OBS	.0	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.9	2.8	10.1	8.3	5.5	15.6	1.8	.9	.0	54.1	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>90YD	>0
> OR ≥3500	.9	.9	.9	.9	.9	.9	.9	.9
> OR ≥3000	1.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7
> OR ≥2500	9.0	19.9	19.9	19.9	19.9	19.9	19.9	19.9
> OR ≥2000	12.6	22.5	23.2	23.2	23.2	23.2	23.2	23.2
> OR ≥1500	18.9	29.7	33.3	33.3	33.3	33.3	33.3	33.3
> OR ≥1000	22.5	39.6	43.2	43.2	43.2	43.2	43.2	43.2
> OR ≥500	23.2	42.3	45.9	45.9	45.9	45.9	45.9	45.9
> OR ≥150	23.2	42.3	46.8	46.8	46.8	46.8	46.8	46.8
> OR > 0	23.2	42.3	46.8	46.8	46.8	46.8	46.8	46.8
TOTAL	28	47	52	52	52	52	52	52

TOTAL NUMBER OF OBS: 111

PCT FREQ NH <5/8: 53.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.4	9.7	12.4	8.0	11.5	6.2	8.8	19.3	17.7	.0	113

MAY

PERIOD: (PRIMARY) 1903-1972
(OVER-ALL) 1869-1972

AREA 0015 PUERTO RISEADO
47.45 62.8W

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
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
	TOT %	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.6	.0	.0	.6	.0	.6	.0	.0	1.1
	TOT %	.0	.0	.0	.6	.0	.0	.6	.0	.6	.0	.0	1.1
2<5	PCP	.3	.3	.0	.0	.6	.6	.0	.0	.0	.0	.0	1.7
	NO PCP	.6	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	1.7
	TOT %	.9	.3	.0	.6	.6	.6	.6	.0	.0	.0	.0	3.4
5<10	PCP	.3	.6	.0	.0	2.9	1.1	.6	.3	.0	.0	.0	5.7
	NO PCP	1.9	1.6	.6	3.4	3.4	9.3	8.9	4.6	.0	.0	.0	33.9
	TOT %	2.2	2.2	.6	3.4	6.3	10.5	9.1	4.9	.0	.0	.0	39.1
10+	PCP	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	1.1
	NO PCP	6.3	3.4	.9	2.0	7.2	7.6	10.2	17.0	.0	.0	.0	34.6
	TOT %	6.3	3.4	.9	2.0	7.2	8.8	10.2	17.0	.0	.0	.0	35.7
TOT OBS												174	
TOT PCT												9.3 6.5 1.4 6.6 14.1 19.8 19.8 22.4 .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
<1/2	0-3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	4-10	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	11-21	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
	4-10	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.8
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.4	.4	.4	.0	.0	.0	.4	
	11-21	.4	.4	.4	.8	.0	.0	.0	.0	.0	.0	.4	
	22+	.4	.0	.4	1.2	.0	.4	.0	.0	.0	.0	.4	
	TOT %	.8	.4	.8	2.0	.4	.8	.4	.0	.0	.0	.0	5.7
5<10	0-3	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	
	4-10	.4	1.8	1.4	1.2	1.2	3.2	2.9	1.6	.0	.0	15.8	
	11-21	1.3	.3	.8	.6	.8	1.8	1.4	1.2	.0	.0	8.1	
	22+	.2	.0	.0	.8	.8	2.8	1.0	2.0	.6	.0	7.3	
	TOT %	1.9	2.1	2.2	2.6	4.9	8.0	6.4	3.4	.0	.0	11.6	
10+	0-3	.4	.2	.2	.4	.8	.4	.8	.0	.0	.4	3.6	
	4-10	1.8	1.4	2.0	2.6	3.2	1.8	3.7	2.9	.0	.0	19.4	
	11-21	2.4	1.6	.4	.0	4.0	7.0	2.2	3.8	.0	.0	23.5	
	22+	.8	.0	.0	.0	2.4	3.5	1.8	1.2	.0	.0	13.8	
	TOT %	5.3	3.2	2.6	3.0	10.5	16.7	8.6	11.9	.0	.4	60.3	
TOT OBS												247	
TOT PCT												9.2 6.2 5.7 8.1 15.8 23.5 15.4 15.8 .0 .4 100.0	

MAY

PERIOD: (PRIMARY) 1903-1972
(OVER-ALL) 1869-1972

APEA 0015 PUERTO RISEADO
47.45 62.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, MM >4/8) AND OCCURRENCE OF MM <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	MM <5/8 ANY HGT	TOTAL OBS
0000	149	299	599	999	1999	3999	4999	6499	7999	8000+	50.0	50.0	28
0600	.0	3.6	.0	10.7	7.1	7.1	21.4	.0	.0	.0	37.9	62.1	29
1200	.0	.0	6.9	6.9	10.3	13.8	10.3	.0	3.4	.0	51.7	48.3	29
1800	.0	.0	.0	14.8	7.4	.0	18.5	3.7	.0	.0	46.4	53.6	27
TOT	0	1	3	11	9	6	19	2	1	0	52	61	113
PCT	.0	.9	2.7	9.7	8.0	5.3	16.8	1.8	.9	.0	46.0	54.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (MM) BY HOUR

HR	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	.0	.0	1.4	11.1	29.2	58.6	72
0600	.0	.0	.0	3.8	30.2	66.0	99
1200	1.5	.0	1.5	3.8	35.9	57.7	78
1800	2.1	.0	.0	2.1	31.3	64.6	48
TOT	4	0	2	14	80	151	291
PCT	1.6	.0	.8	5.0	31.9	60.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (MM) AND/OR CEILING HGT (FEET, MM >4/8) BY HOUR

HR	<150	<600	<1000	1000+	MM <5/8 AND 5+	TOTAL OBS
0000	.0	3.7	29.9	29.6	44.4	27
0600	.0	3.4	10.3	27.6	62.1	29
1200	.0	6.9	17.2	34.5	48.3	29
1800	.0	.0	19.2	26.9	53.6	26
TOT	0	4	20	33	58	111
PCT	.0	3.6	18.0	29.7	52.3	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
59/59	.0	.0	.0	.0	.7	2.0	.0	.0	4	2.7
59/54	.0	.0	.0	.0	.7	10.1	8.1	4.1	34	23.0
49/49	.0	.0	.0	.7	4.1	19.6	18.2	14.9	89	57.4
40/44	.0	.0	.0	.7	2.0	2.7	6.8	4.7	29	16.9
TOTAL	0	0	0	2	11	31	49	35	148	100.0
PCT	.0	.0	.0	1.4	7.4	24.3	33.1	23.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

M	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	2.7	.0	.0
3.7	1.9	.7	.0	.7	3.8	3.7	8.8	.0	.0
4.7	4.1	.7	3.4	11.3	11.3	10.1	11.8	.0	.0
.8	1.0	.3	4.4	2.3	2.7	3.9	1.2	.0	.0
9.9	6.9	1.7	7.8	14.5	17.6	17.7	24.5	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	60	59	59	47	42	39	38	46.3	401
0600	57	58	57	46	41	37	36	46.4	221
1200	62	57	55	47	40	37	37	47.3	525
1800	59	57	55	47	42	40	39	47.7	211
TOT	62	56	53	47	42	39	36	47.1	1388

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.0	10.0	40.0	17.3	32.3			62	40
0600	.0	.0	8.8	38.2	35.3	17.6			61	34
1200	.0	2.2	10.9	30.4	32.6	23.9			61	46
1800	.0	3.1	5.1	25.0	50.0	18.0			63	32
TOT	0	2	13	31	30	36			62	132

MAY

PERIOD: (PRIMARY) 1903-1972
(OVER-ALL) 1869-1972

AREA 0015 PUERTO RISEADO
47.4S 62.0W

TABLE 17

PCT FRQ 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	TOT	% FOG	NO FOG
7/8	.0	.0	.0	.6	1.1	1.1	3	.0	2.9
6	.0	.0	.0	.0	.6	.6	2	.0	1.1
5	.0	.0	.0	.6	2.9	2.3	10	.0	5.7
4	.0	.0	.0	.0	2.3	1.1	6	.0	3.4
3	.0	.0	.0	2.3	2.9	.6	10	.0	5.7
2	.0	.0	.6	4.6	3.7	.0	19	2.9	8.0
1	.0	.0	.6	3.7	4.0	.0	18	1.7	8.6
0	.0	.0	.0	10.9	2.3	.0	23	1.7	11.4
-1	.0	.0	1.7	4.6	.0	.6	12	1.1	5.7
-2	.0	.0	2.9	3.1	1.7	.0	17	.0	9.7
-3	.0	.6	4.6	3.7	.0	.0	19	1.7	9.1
-4	.0	.0	3.7	3.4	.0	.0	16	.0	9.1
-5	.0	.0	.6	.0	.0	.0	1	.0	.6
-6	.0	1.1	1.1	1.7	.6	.0	8	.0	4.6
-7/-8	.0	1.1	.6	1.1	.0	.0	3	.0	2.9
-9/-10	.6	1.1	.0	.6	.0	.0	4	.0	2.3
TOTAL	1	7	32	82	42	11	173	16	139
PCT	.6	4.0	18.3	46.9	24.0	6.3	100.0	9.1	90.9

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	3.9	.0	.0	.0	3.9	.0	.0	2.9	.0	.0	.0	2.9
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.7	2.3	.0	.0	4.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	2.3	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	3.2	4.7	.0	.0	9.9	.0	.0	2.9	.0	.0	.0	2.9

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	2.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	4.7	.0	.0	.0	4.7	.0	.0	2.3	.0	.0	.0	2.3

PCT FREQ OF WIND SPEED (KTS) AND DIRECTI.N VERSUS SEA HEIGHTS (FT)

MGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	3.5	.0	.0	.0	3.5
5-6	.0	4.7	7.9	.0	.0	.0	7.0	.0	.0	2.9	4.7	.0	.0	7.0
7	.0	1.7	.0	.0	.0	.0	1.7	.0	2.9	.0	.0	.0	.0	2.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	2.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	2.9
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	6.4	4.1	.0	.0	.0	10.5	.0	2.9	5.8	9.3	.0	.0	18.0

MGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.9	1.7	.0	.0	.0	4.1	.0	.0	1.2	.0	.0	.0	1.2
3-4	.0	6.4	1.7	.0	.0	.0	8.1	.0	7.6	7.0	.0	.0	.0	14.5
5-6	.0	2.9	.0	2.9	.0	.0	4.7	.0	.0	2.9	.0	.0	.0	2.9
7	.0	.0	4.1	.0	.0	.0	4.1	.0	.0	5.2	4.7	.0	.0	9.9
8-9	.0	.0	.0	2.9	.0	.0	2.9	.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	11.0	7.6	4.7	.0	.0	23.3	.0	7.6	16.3	4.7	.0	.0	28.5 100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	2.9	.0	.0	.0	2.9	
1-2	.0	2.9	11.0	.0	.0	.0	14.0	
3-4	.0	14.0	14.0	.0	.0	.0	27.9	
5-6	.0	7.0	9.3	9.3	.0	.0	25.6	
7	.0	4.7	9.7	7.0	.0	.0	20.9	
8-9	.0	.0	.0	2.9	.0	.0	2.9	
10-11	.0	.0	.0	2.9	.0	.0	2.9	
12	.0	.0	.0	2.9	.0	.0	2.9	
13-16	.0	.0	.0	2.9	.0	.0	2.9	
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	27.9	48.5	29.6	.0	.0	100.0	43

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 MGT	
<1	.0	13.3	13.3	6.0	2.4	1.2	1.2	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	4
1-2	.0	1.2	2.4	8.4	7.2	3.6	3.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	6
3-4	.0	.0	.0	2.4	1.2	1.2	4.8	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	10
5-6	.0	.0	.0	.0	1.2	1.2	2.4	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	11
7	.0	.0	.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	.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	0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
15-17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDEF	1.2	1.2	4.8	2.4	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	3
TOTAL	2	13	17	16	11	6	10	1	7	0	0	0	0	0	0	0	0	0	0	0	89	6
PCT	2.4	15.7	20.5	19.3	13.3	7.2	12.0	1.2	8.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1854-1973

APEA 0015 PUERTO RISEADO
47.4S 62.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	SIG WEA
N	10.6	.0	5.3	.0	.0	.0	.0	15.9	.0	.0	6.6	.0	.0	.0	.0	77.5
NE	.0	.0	.0	.0	25.0	.0	.0	25.0	6.3	.0	.0	.0	.0	.0	.0	68.8
E	36.4	.0	.0	.0	.0	.0	.0	36.4	27.3	.0	.0	.0	.0	.0	.0	36.4
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	4.0	6.0	.0	.0	.0	8.0	18.0	.0	.0	.0	.0	.0	.0	.0	82.0
SW	2.0	2.0	1.0	.0	2.0	.0	.0	5.1	5.1	.0	.0	.0	.0	.0	.0	89.8
W	7.6	.0	.0	.0	1.5	.0	3.1	10.7	6.9	.0	1.5	.0	.0	.0	.0	80.9
NW	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	15.1	.0	.0	.0	.0	83.6
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	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	5.1	.6	1.9	.0	1.3	.0	1.3	9.3	3.2	.0	5.7	.0	.0	.0	.0	81.6
TOT OBS:	158															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	SIG WEA
0000	4.8	.0	2.4	.0	2.4	.0	2.4	11.9	4.8	.0	11.9	.0	.0	.0	.0	71.4
0400	3.4	.0	3.4	.0	.0	.0	3.4	10.3	3.4	.0	3.4	.0	.0	.0	.0	82.8
1200	6.0	.0	2.0	.0	.0	.0	.0	8.0	4.0	.0	2.0	.0	.0	.0	.0	86.0
1800	5.3	2.6	.0	.0	2.6	.0	.0	7.9	.0	.0	5.3	.0	.0	.0	.0	86.8
TOT PCT	5.0	.6	1.9	.0	1.3	.0	1.3	9.4	3.1	.0	5.7	.0	.0	.0	.0	81.8
TOT OBS:	159															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18	21
N	.0	3.7	4.8	1.9	.5	.0		11.6	14.9	12.2	9.8	15.8	10.9	13.8	11.9	14.4	10.2
NE	.2	2.0	1.4	.5	.2	.1		4.4	14.2	4.6	2.5	1.3	2.4	4.3	3.8	7.7	5.6
E	.8	1.7	1.0	1.0	.3	.0		4.7	14.4	5.4	5.3	3.9	4.8	3.1	4.4	3.8	5.9
SE	.9	2.7	2.0	1.1	.4	.0		6.7	14.3	9.8	6.8	5.3	6.7	7.2	7.9	.0	5.7
S	.6	3.1	2.6	1.3	.8	.1		8.6	16.1	8.8	6.0	19.7	7.5	9.0	10.2	2.9	9.1
SW	1.1	6.4	4.3	3.6	2.4	.6		20.3	17.6	20.4	22.3	17.1	22.4	20.7	17.1	20.2	21.6
W	1.2	9.9	8.2	5.4	2.1	.4		23.1	18.0	24.8	26.3	5.3	22.8	21.8	20.8	26.0	24.4
NW	.8	4.6	7.5	4.5	1.5	.1		19.0	17.3	16.2	20.3	31.6	21.6	18.8	19.2	25.0	16.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0	1.8	.8	.0	1.2	1.4	2.8	.0	1.1
TOT OBS	138	346	618	391	152	24	1827		16.4	285	265	19	232	378	432	26	270
TOT PCT	7.6	29.8	33.8	19.2	8.3	1.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	03	09	15	18	21
N	1.8	5.7	2.8	1.2	.2		11.6	14.9	11.0	10.9	12.6	10.2
NE	1.3	1.6	1.0	.2	.2		4.4	14.2	3.6	2.3	5.2	5.7
E	1.6	1.3	1.1	.0	.1		4.7	14.4	5.4	4.7	3.9	5.7
SE	1.3	2.6	1.8	.7	.1		6.7	14.3	6.3	6.0	7.6	5.2
S	1.9	3.3	1.8	1.2	.4		8.6	16.1	7.5	8.4	9.7	8.5
SW	3.7	8.0	4.5	2.8	1.3		20.3	17.6	21.3	22.0	18.5	21.5
W	4.4	8.4	6.2	4.2	.9		23.1	18.0	25.5	21.6	21.2	24.6
NW	2.4	7.0	5.9	3.3	.2		19.0	17.3	18.2	22.3	19.0	17.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	1.3	1.1	2.3	1.0
TOT OBS	351	692	459	264	61	1827		14.4	390	271	710	296
TOT PCT	19.2	37.9	25.1	14.4	3.3		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1964-1973
(COVER-ALL) 1954-1973

AREA 0015 PUERTO RISEADO
47.45 62.9M

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	1.3	7.6	28.9	33.8	16.7	9.6	2.0	16.3	100.0	380
0600Z	1.1	7.4	20.3	34.3	17.7	8.9	.4	10.0	100.0	271
1200Z	2.3	8.4	29.6	33.2	21.1	7.2	1.3	10.4	100.0	710
1800Z	1.0	3.0	31.4	34.8	20.6	8.1	1.0	10.9	100.0	298
TOT	28	109	344	618	331	192	24	10.4		1927
PCT	1.6	6.0	29.8	32.0	19.2	8.3	1.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCO	TOTAL OBS	MEAN CLOUD COVER
NE	.0	1.1	2.5	.0		3.6
E	.0	.0	2.0	.0		6.1
SE	1.1	.0	.0	2.2		6.0
S	1.1	.0	4.2	1.1		3.4
SW	7.3	3.1	4.2	3.4		3.9
W	9.0	3.4	7.9	4.3		4.3
NW	2.8	7.9	4.3	3.7		4.7
VAR	.0	.0	.0	.0		.0
CALM	1.1	.0	.0	.0		.0
TOT OBS	27	18	27	20	89	4.6
TOT PCT	30.3	16.9	30.3	22.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WIND DIR	CEILING HEIGHTS (FT, NM >4/8)										100+ NM <5/8 ANY HGT	TOTAL OBS
	000 149	150 209	300 399	400 499	1000 1999	2000 2499	3500 4999	5000 6499	6500 7999	100+ NM <5/8 ANY HGT		
N	.0	.0	2.2	2.2	1.1	2.2	.6	.0	.0	1.1	12.4	
NE	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0	1.1	
E	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	1.1	
SE	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	1.1	
S	.0	.0	1.1	2.0	1.1	.0	.0	.0	.0	.0	2.2	
SW	.0	1.1	.8	.3	2.2	3.1	.0	.0	.0	.0	10.7	
W	.0	.0	1.7	1.1	2.2	3.4	.0	1.1	.0	.0	13.2	
NW	.0	.0	.0	2.2	2.2	.3	.6	.0	.0	.0	13.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
TOT OBS	1	1	9	7	12	8	1	1	0	1	82	
TOT PCT	1.1	1.1	3.6	7.9	13.5	9.0	1.1	1.1	.0	1.1	58.4	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>5000	>0
>4500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>4000	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
>3500	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
>3000	10.0	12.2	12.2	12.2	12.2	12.2	12.2	12.2
>2000	22.2	28.6	28.6	28.6	28.6	28.6	28.6	28.6
>1000	28.9	33.3	33.3	33.3	33.3	33.3	33.3	33.3
>500	30.0	36.7	37.4	37.8	37.8	37.8	38.9	38.9
>150	31.1	37.0	38.9	38.9	38.9	38.9	40.0	40.0
>0	32.2	38.9	40.0	40.0	40.0	40.0	41.1	41.1
TOTAL	29	39	36	36	36	36	37	37

TOTAL NUMBER OF OBS: 90 PCT FREQ NM <5/8: 38.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCO	TOTAL OBS
30.1	6.5	7.9	6.5	8.6	8.6	10.8	9.4	19.1	1.1	93

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1854-1973

JUNE

AREA 0015 PUERTO DESEADO
47.45 62.94

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	1.9	
	TOT %	.0	.0	.0	.0	.0	.3	.3	1.9	.0	.0	2.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.8	.0	.0	.6	.0	.0	1.3	
	TOT %	.0	.0	.0	.0	1.3	.0	.0	.6	.0	.0	1.9	
5<10	PCP	7.1	.6	.6	.0	.3	.9	1.3	.0	.0	.0	6.9	
	NO PCP	9.1	.3	.0	.0	2.8	3.8	4.6	10.3	.0	.0	22.1	
	TOT %	12.3	.9	.6	.0	3.1	4.7	5.8	10.3	.0	.0	29.0	
10+	PCP	.6	.0	.0	.0	.5	.2	.6	.0	.0	.0	1.9	
	NO PCP	10.8	1.6	1.1	1.3	3.0	10.8	13.8	11.6	.0	.0	54.7	
	TOT %	11.3	1.6	1.1	1.3	3.5	11.0	14.3	11.6	.0	.0	56.6	
TOT OBS												159	
TOT PCT	29.7	2.9	1.7	1.3	7.9	16.0	20.6	29.0	.0	1.3	100.0		

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.0	.0	.3	.3	1.3	.0	.0	2.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	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	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.3	.0	.0	.3	.0	1.0	
	TOT %	.0	.0	.0	.0	1.0	.0	.0	.0	.3	.0	1.3	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	2.6	.0	.8	.0	.0	.3	.3	1.5	.0	.0	5.2	
	11-21	3.9	.6	.3	.3	1.3	1.0	2.1	3.1	.0	.0	12.9	
	22+	3.6	.0	.0	.0	1.0	2.6	2.4	4.3	.0	.0	13.9	
	TOT %	10.1	.6	.8	.3	2.6	3.9	4.8	8.9	.0	.0	32.3	
10+	0-3	1.0	.0	.0	.0	.5	.5	.0	.0	.0	.0	2.6	
	4-10	2.7	.1	.9	.0	.4	2.1	4.6	3.0	.0	.0	16.0	
	11-21	4.1	1.2	.0	1.5	1.7	7.7	6.2	3.9	.0	.0	28.4	
	22+	2.6	.0	.0	.0	1.3	4.9	3.3	2.7	.0	.0	17.0	
	TOT %	10.4	1.3	.9	1.5	4.1	15.2	16.2	13.7	.0	.0	63.9	
TOT OBS												194	
TOT PCT	20.9	2.1	1.7	1.8	7.7	19.3	21.3	24.6	.0	1.0	100.0		

JUNE

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1854-1973

AREA 0015 PUERTO RISEADO
47.45 -2.9M

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NM >4/8) AND OCCURRENCE OF NM <5/8 BY HOUR

HR	000	100	200	300	400	1000	2000	3000	5000	6000	8000+	TOTAL	NM <5/8	TOTAL
(GMT)	149	299	399	499	1999	3499	4999	6499	7999				ANY HGT	OBS
00003	.0	.0	11.8	5.9	5.9	5.9	.0	.0	.0	.0	.0	29.4	70.6	17
06009	5.0	.0	.0	15.0	20.0	5.0	.0	.0	.0	.0	.0	45.0	55.0	20
12015	.0	3.7	3.7	3.7	11.1	18.5	3.7	.0	.0	.0	.0	44.4	55.6	27
18021	.0	.0	7.1	7.1	14.3	3.6	.0	3.6	.0	3.6	39.3	60.7	39.3	28
TOT	1	1	3	7	12	8	1	1	0	1	1	37	58	92
PCT	1.1	1.1	5.4	7.6	13.0	8.7	1.1	1.1	.0	1.1	1.1	40.2	59.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2-1	1-2	2-4	5-10	10+	TOTAL
(GMT)							OBS
00003	3.6	.0	.0	1.8	40.0	54.5	59
06009	.0	.0	.0	.0	30.3	69.7	33
12015	.0	.0	.0	3.2	32.3	64.5	62
18021	4.4	.0	.0	.0	24.4	71.1	45
TOT	4	0	0	3	63	125	195
PCT	2.1	.0	.0	1.5	32.3	64.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET/NM >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NM <5/8	TOTAL
(GMT)	<5000	<1	<5	AND 5+	AND 5+	OBS
00003	.0	11.8	17.6	11.8	70.6	17
06009	5.3	5.3	21.1	26.3	92.6	19
12015	.0	7.4	11.1	33.3	35.6	27
18021	.0	7.4	14.8	25.9	59.3	27
TOT	1	7	14	23	93	90
PCT	1.1	7.8	15.6	25.6	58.9	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	PCT
									OBS	FREQ
30/94	.0	.0	.0	.0	1.3	4.4	5.2	.0	13	11.1
45/49	.0	.0	.0	.0	3.7	12.8	17.8	11.9	63	48.1
60/44	.0	.0	.0	2.2	6.7	7.4	8.9	8.1	49	33.3
75/39	.0	.0	.0	.0	1.5	1.5	4.4	1.0	10	7.4
TOTAL	0	0	0	3	16	38	45	33	135	100.0
PCT	.0	.0	.0	2	11.9	29.1	33.3	24.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
30/94	.0	.7	.0	.7	.7	.9	3.3	2.9	.0	.0
45/49	10.3	.2	.7	1.5	1.3	4.4	8.0	15.0	.0	.7
60/44	7.4	1.3	1.3	.0	5.0	8.1	4.8	6.7	.0	.7
75/39	.4	.7	.0	.0	2.2	1.9	.4	1.9	.0	.0
TOTAL	24.6	3.0	2.0	2.2	9.3	13.3	16.7	27.4	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	56	51	50	47	38	33	33	44.3	344
06009	54	52	50	54	38	36	34	44.2	271
12015	57	53	51	45	39	36	34	44.8	692
18021	54	53	51	45	39	36	35	45.0	291
TOT	57	53	50	45	39	36	33	44.6	1798

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00003	.0	2.9	8.6	22.9	31.4	34.3	83	35		35
06009	.0	4.0	4.0	32.0	44.0	16.0	81	25		25
12015	.0	2.4	9.2	31.7	34.1	22.0	81	41		41
18021	.0	.0	22.9	28.6	25.7	22.9	80	35		35
TOT	0	3	16	39	45	33	62	134		134

JUNE

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1854-1973

AREA 0015 PUERTO DESEADO
47.45 62.9M

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOLT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIP	33 36	37 40	41 44	45 48	49 52	53 56	TOT	% FOG	NO FOG
6	.0	.0	.0	.0	.7	1.4	3	.0	2.1
5	.0	.0	.0	.7	.7	.0	2	.0	1.4
4	.0	.0	.0	2.1	2.1	.0	7	.0	4.9
3	.0	.0	.0	2.1	6.3	.0	12	.7	7.6
2	.0	.0	.0	9.0	.7	.0	14	.0	9.7
1	.0	.0	.0	7.6	2.8	.0	13	.7	9.7
0	.0	.0	6.9	7.6	2.8	.0	23	2.1	15.3
-1	.0	.7	4.9	3.5	.7	.0	14	.0	9.7
-2	.0	.0	7.6	2.8	.0	.0	15	.0	10.4
-3	.0	2.1	6.9	.7	.0	.0	14	.7	9.0
-4	.0	.0	4.2	.7	.0	.0	7	.0	4.9
-5	.0	1.4	2.1	.0	.0	.0	3	.0	3.5
-6	.0	2.1	.0	.0	.0	.0	3	.0	2.1
-7/-1	.0	3.5	.7	.0	.0	.0	6	.0	4.2
-9/-10	.7	.0	.0	.0	.0	.0	1	.0	.7
-11/-13	.7	.0	.0	.0	.0	.0	1	.0	.7
TOTAL	2	14	48	34	24	2	144	4.2	95.8
PCT	1.4	9.7	33.3	37.5	16.7	1.4	100.0	4.2	95.8

PERIOD: (OVER-ALL) 1903-1973

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	4.9	.0	.0	.0	.0	.0	4.9	.0	.0	.0	.0	.0	.0	.0
3-4	.0	4.3	4.3	.0	.0	.0	8.5	.0	.0	.0	.0	.0	.0	.0
5-6	.0	2.4	2.4	2.4	.0	.0	7.3	.0	.0	2.4	.0	.0	.0	2.4
7	.0	.0	.0	2.4	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	2.4	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.9	6.7	6.7	7.3	.0	.0	25.4	.0	.0	2.4	.0	.0	.0	2.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	2.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	2.4

PERIOD: (OVER-ALL) 1963-1973

JUNE

AREA 0013 PUERTO DESEADO
47.42 62.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	2.4	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8
3-4	.0	.0	2.4	.0	.0	.0	2.4	.0	.0	.8	.0	.0	.0	.0	.0	.8
5-6	.0	.0	1.8	.0	.0	.0	1.8	.0	.0	5.3	1.2	.0	.0	.0	.0	6.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	2.4	.0	.0	.0	.0	7.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.4	.0	4.3	.0	.0	.0	6.7	.0	.8	11.0	6.3	.0	.0	.0	.0	19.9

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.0	.0	.0	.0	.0	.0	.0	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.8	2.4	.0	.0	.0	4.3	.0	2.4	.0	.0	.0	.0	.0	.0	2.4	4.9
3-4	.0	.0	4.3	.0	.0	.0	4.3	.0	.8	2.4	.0	.0	.0	.0	.0	1.2	4.9
5-6	.0	.0	2.4	3.7	.0	.0	6.1	.0	.0	2.4	.0	.0	.0	.0	.0	2.4	6.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	.0	.0	.0	.0	.0	4.9	4.9
8-9	.0	.0	2.4	1.8	.0	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	4.3	4.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.7	11.6	9.8	4.3	.0	32.3	.0	3.0	7.9	.8	.8	.0	.0	.0	12.2	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	4.9	4.9	.0	.0	.0	.0	9.8	9.8
1-2	4.9	4.9	2.4	.0	.0	.0	12.2	12.2
3-4	.0	4.9	14.8	.0	.0	.0	19.3	19.3
5-6	.0	2.4	17.1	7.3	.0	.0	26.8	26.8
7	.0	.0	9.8	4.9	.0	.0	14.6	14.6
8-9	.0	.0	2.4	2.4	.0	.0	4.9	4.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	2.4	.0	.0	2.4	2.4
13-16	.0	.0	.0	.0	4.9	.0	4.9	4.9
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	9.8	17.1	46.3	22.0	4.9	.0	100.0	41

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
6-7	3.9	3.9	9.1	5.2	3.2	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	6
8-9	.0	.0	6.5	9.1	3.2	2.9	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	6
10-11	.0	.0	2.9	3.9	2.6	1.3	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	8
12-13	.0	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
15-19	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	6
INDEX	.0	2.6	3.9	2.6	2.6	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	6
TOTAL	3	3	20	16	12	8	3	4	4	2	0	0	0	0	0	0	0	0	0	0	77	6
PCT	3.9	6.5	26.0	20.8	15.6	10.4	3.9	5.2	5.2	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	6

JULY

PERIOD: (PRIMARY) 1903-1973
(OVER-ALL) 1954-1973

AREA 0015 PUERTO RISEADO
47.35 62.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRIG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	BLWG DUST	SPRAY BLWG SNOW	NO SIG MEA
N	4.4	.0	.0	.0	.0	.0	.0	4.4	.0	.0	7.3	.0	.0	.0	.0	88.3
NE	4.4	8.9	8.9	.0	.0	.0	.0	22.2	.0	.0	4.4	.0	.0	.0	.0	79.3
E	.0	.0	11.1	.0	.0	.0	.0	11.1	16.7	.0	.0	.0	.0	.0	.0	72.2
SE	.0	.0	14.3	.0	.0	.0	.0	14.3	7.1	.0	.0	.0	.0	.0	.0	78.6
S	.0	8.9	29.8	.0	12.8	.0	.0	42.6	14.9	.0	.0	.0	.0	.0	.0	42.6
SW	.0	5.2	13.0	.0	7.8	.0	.0	20.8	1.3	.0	.0	.0	.0	.0	.0	77.9
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	.0	.0	.0	.0	92.7
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23.9	.0	.0	.0	.0	76.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0
TOT PCT	1.4	2.1	3.6	.0	2.1	.0	.0	9.8	2.1	.0	9.8	.0	.0	.0	.0	78.3
TOT OBS:	143															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRIG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	BLWG DUST	SPRAY BLWG SNOW	NO SIG MEA
0800	.0	.0	8.8	.0	2.9	.0	.0	11.8	2.9	.0	14.7	.0	.0	.0	.0	70.6
0809	.0	2.4	4.8	.0	.0	.0	.0	7.1	2.4	.0	4.8	.0	.0	.0	.0	89.7
1201	2.4	2.4	4.9	.0	2.4	.0	.0	9.8	.0	.0	12.2	.0	.0	.0	.0	78.0
1821	3.7	3.7	3.7	.0	3.7	.0	.0	11.1	3.7	.0	11.1	.0	.0	.0	.0	74.1
TOT PCT	1.4	2.1	3.6	.0	2.1	.0	.0	9.7	2.1	.0	10.4	.0	.0	.0	.0	77.8
TOT OBS:	144															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.3	2.3	3.9	2.9	.6	.1	10.2	17.9	4.1	7.9	22.1	9.2	10.3	11.9	24.0	9.4
NE	.4	1.9	2.3	.7	.2	.0	5.4	13.8	4.0	5.2	3.7	8.6	8.3	4.8	3.2	6.1
E	.3	1.2	1.3	.4	.1	.0	3.3	12.4	3.3	3.3	3.7	4.3	4.3	3.1	3.1	2.3
SE	.8	1.1	1.1	.7	.5	.2	4.6	13.9	4.6	4.9	4.4	4.7	6.4	4.3	3.1	3.0
S	1.0	2.3	2.1	1.9	1.7	.5	9.3	20.7	10.3	9.1	10.3	7.7	8.2	10.7	3.2	10.2
SW	1.1	3.4	6.7	3.6	4.2	1.7	22.7	22.2	22.7	19.8	12.3	22.6	24.8	21.9	13.3	27.4
W	1.0	6.3	9.1	8.2	2.8	.6	24.9	18.3	28.6	27.9	18.4	23.3	28.9	22.9	27.1	21.9
NW	.4	3.7	8.0	4.1	.7	.2	17.1	17.3	17.3	19.3	23.0	16.6	13.8	18.3	18.8	18.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0						2.0	.0	3.0	3.6	.0	2.8	.4	2.1	.0	1.1
TOT OBS	142	481	646	386	198	61	1874	18.3	286	283	34	283	270	483	24	282
TOT PCT	7.6	24.6	34.9	19.3	10.6	3.3	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40				00	03	09	12	15	21	
N	1.3	3.4	3.9	1.3	.3	10.2	17.9	8.0	10.7	11.4	10.7			
NE	1.3	2.1	1.3	.4	.0	5.4	13.8	4.6	6.3	3.3	6.0			
E	1.1	1.3	.9	.2	.0	3.3	12.4	3.4	4.3	3.6	2.3			
SE	1.4	1.3	1.0	.7	.2	4.6	13.9	4.6	4.7	4.3	4.8			
S	2.0	2.4	2.1	1.8	1.2	9.3	20.7	9.8	8.0	9.8	9.8			
SW	2.8	7.0	9.5	4.0	3.4	22.7	22.2	21.3	21.5	22.9	26.2			
W	3.4	9.2	7.0	3.8	1.3	24.9	18.3	27.2	24.7	24.3	22.4			
NW	1.7	6.4	6.5	2.2	.3	17.1	17.3	17.8	17.6	18.7	16.3			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	2.0					2.0	.0	3.2	2.3	.5	1.0			
TOT OBS	319	620	331	272	132	1874	18.3	334	289	323	286			
TOT PCT	17.0	33.1	28.3	14.3	7.0	100.0		100.0	100.0	100.0	100.0			

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1854-1973

JULY

AREA 0015 PUERTO RISEADO
47.55 62.94

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00003	3.2	6.2	21.7	35.2	18.9	10.1	4.7	18.7	100.0	534
06009	2.3	5.0	24.1	37.1	17.7	10.0	3.7	18.4	100.0	299
12015	1.5	3.0	25.8	34.4	20.1	10.9	2.3	18.1	100.0	755
18021	1.0	6.3	27.3	30.4	21.0	11.2	2.8	18.4	100.0	286
TOT	38	104	461	646	366	198	61	18.3		1874
PCT	2.0	5.6	24.6	34.5	19.5	10.6	3.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	PCT FREQ				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD		
N	4.5	.0	11.3	15.4	61	6.1
NE	1.9	.0	4.7	.6	61	6.1
E	1.5	.0	1.8	.0	3.8	3.8
SE	1.5	.0	.6	.0	2.3	2.3
S	2.1	2.1	2.1	1.2	4.4	4.4
SW	2.7	1.5	5.1	1.7	4.6	4.6
W	13.1	3.3	2.4	4.9	3.1	3.1
NW	10.7	3.9	3.6	2.4	2.6	2.6
VAR	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	1.2	84	84.0
TOT OBS	31	9	24	10	84	4.3
TOT PCT	36.9	10.7	31.0	21.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PCT FREQ										TOT-L ANY MGT DB
	000	150	300	600	1000	2000	3500	5000	6500	8000+	
	149	299	599	999	1999	3999	4999	6499	7999		
N	.0	.0	.0	.0	1.8	6.0	.0	.0	3.3	3.6	11.6
NE	.0	.0	.0	.0	.6	1.2	.0	2.4	.0	.0	1.5
E	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	1.5
SE	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	1.5
S	.0	1.2	.0	.0	1.2	.9	.0	.0	.0	.0	4.1
SW	.0	.0	.0	1.2	1.2	.3	.0	1.2	.0	.0	6.5
W	.0	.0	.0	1.2	1.2	.0	1.2	.0	.0	.0	19.6
NW	.0	.0	.0	1.2	.0	1.2	.0	.0	.0	.0	17.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	1.2	1.2	.0	5	5	8	1	3	3	3	84
TOT PCT	1.2	1.2	.0	6.0	6.0	9.5	1.2	3.6	3.6	3.6	64.2

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4900	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
>5000	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
>5900	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
>7000	19.0	21.4	21.4	21.4	21.4	21.4	21.4	21.4
>1000	22.6	27.4	27.4	27.4	27.4	27.4	27.4	27.4
>1000	22.6	33.3	33.3	33.3	33.3	33.3	33.3	33.3
>300	28.6	31.3	33.3	33.3	33.3	33.3	33.3	33.3
>100	30.6	34.5	34.5	34.5	34.5	34.5	34.5	34.5
>0	36.6	34.5	34.5	34.5	34.5	34.5	34.5	34.5
TOTAL	24	29	29	29	29	29	30	30

TOTAL NUMBER OF OBS: 84

PCT FREQ NH <5/8: 64.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
27.6	11.5	10.3	6.9	9.2	3.4	4.6	13.8	11.5	1.1	87

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1854-1973

JUL-

AREA 0015 PUERTO RISEADO
47.55 62.9W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	ND PCP	1.0	.0	.0	.0	.0	.0	.4	1.4	.0	1.4	4.2	
	TOT %	1.0	.0	.0	.0	.0	.0	.3	1.4	.0	1.4	4.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	ND PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	ND PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	ND PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	PCP	1.0	1.7	.3	.3	3.5	2.1	.0	.0	.0	.0	.0	9.1
	ND PCP	3.4	1.4	.3	.9	1.0	3.4	3.8	5.2	.0	.0	24.9	
	TOT %	4.4	3.1	.6	1.2	4.5	5.5	3.8	5.2	.0	.0	34.0	
10+	PCP	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7
	ND PCP	14.9	4.7	2.3	1.2	3.1	3.2	14.9	13.8	.0	.0	61.5	
	TOT %	14.9	4.7	2.3	1.2	3.1	3.9	14.9	13.8	.0	.0	62.2	
TOT OBS												143	
TOT PCT		24.0	7.9	3.1	2.4	8.2	13.5	17.1	20.5	.0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.2	
	4-10	.3	.0	.0	.0	.0	.0	.3	1.2	.0	.0	1.8	
	11-21	.6	.0	.0	.0	.0	.0	.0	.6	.0	.0	1.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.9	.0	.0	.0	.0	.0	.3	1.8	.0	1.2	4.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.9	.9	.0	.0	.0	.0	.0	.7	.0	.0	1.8	
	TOT %	.9	.9	.0	.0	.0	.0	.0	.7	.0	.0	1.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.4	.3	.0	.0	.0	.0	.0	.3	.0	.0	1.2	
	22+	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.6	
	TOT %	.4	.3	.0	.0	.3	.3	.0	.3	.0	.0	1.8	
5<10	0-3	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	
	4-10	.9	1.2	.3	.3	.6	1.3	1.8	.6	.0	.0	7.1	
	11-21	3.6	1.3	.4	.1	.9	1.2	.9	3.3	.0	.0	11.9	
	22+	1.2	.0	.0	.3	3.1	4.3	.6	.6	.0	.0	10.1	
	TOT %	5.7	2.7	.7	1.3	4.6	7.0	3.3	4.5	.0	.0	29.0	
10+	0-3	.0	.0	.0	.1	.4	.0	.3	.3	.0	.0	1.2	
	4-10	.9	1.2	1.2	.7	1.2	2.4	5.8	1.3	.0	.0	14.9	
	11-21	6.3	1.9	.4	.4	1.3	2.2	2.8	8.5	9.8	.0	33.9	
	22+	.4	.9	.0	.3	.9	.7	2.8	.4	.0	.0	12.5	
	TOT %	13.8	4.0	1.9	2.5	4.6	6.0	17.4	12.1	.0	.0	62.5	
TOT OBS												168	
TOT PCT		2.9	7.9	2.7	3.4	9.7	13.2	21.0	18.6	.0	1.2	100.0	

JULY

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1854-1973

AREA 0015 PUERTO RISEADO
47.35 62.94

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	100	200	300	400	500	600	700	800	900	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	.0	.0	.0	5.9	.0	5.9	5.9	.0	.0	.0	17.6	62.4	17						
0600	.0	.0	.0	7.4	.0	7.4	.0	.0	3.7	.0	18.5	81.5	27						
1200	4.2	4.2	.0	.0	12.5	12.5	.0	8.3	4.2	8.3	54.2	45.8	26						
1800	.0	.0	.0	10.5	10.5	10.5	.0	3.3	3.3	3.3	47.4	52.6	19						
TOT	1	1	0	3	3	3	1	3	3	3	30	57	87						
PCT	1.1	1.1	.0	5.7	5.7	9.2	1.1	3.4	3.4	3.4	34.5	65.5	100.0						

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	4.8	2.4	.0	4.8	78.1	50.0	42
0600	2.1	2.1	.0	.0	27.7	68.1	47
1200	4.3	.0	.0	.0	31.9	63.8	47
1800	6.1	3.0	.0	3.0	21.2	66.7	33
TOT	7	3	0	3	91	105	169
PCT	4.1	1.8	.0	1.8	30.2	62.1	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 FT	<600 FT	<1000 FT	1000+ FT	NM <5/8 AND 3+	TOTAL OBS
0000	.0	.0	6.3	12.5	81.3	16
0600	.0	.0	7.7	11.5	80.8	26
1200	4.3	8.7	8.7	47.8	43.8	26
1800	.0	.0	10.5	36.8	52.6	19
TOT	1	2	7	23	56	86
PCT	1.2	2.4	8.3	27.4	64.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	2.8	2.8	.0	.0	8	5.7
45/49	.0	.0	2.8	2.1	3.5	17.0	11.3	.0	32	36.9
40/44	.0	.0	1.4	7.8	12.8	9.2	20.6	.0	75	51.8
35/39	.0	.0	.0	.7	.0	2.1	2.1	.0	7	3.0
30/34	.0	.0	.0	.0	.0	.0	.7	.0	1	.7
TOTAL	0	0	4	19	27	44	48	0	141	100.0
PCT	.0	.0	2.8	13.5	19.1	31.2	34.8	0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	1.2	.4	.4	.0	.0	.0	1.4	2.3	.0	.0
45/49	11.3	.9	.9	.2	1.2	.9	8.7	13.8	.0	.0
40/44	9.6	3.9	1.8	1.2	3.3	12.8	12.1	5.0	.0	.0
35/39	2.0	.0	.0	.0	.7	1.4	.0	.9	.0	.0
30/34	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0
TOTAL	24.1	5.1	2.9	1.4	7.3	19.8	21.8	22.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	54	50	48	43	37	34	33	42.0	33
0600	52	50	48	43	38	34	33	42.9	27
1200	55	53	49	44	38	36	33	43.9	74
1800	56	51	48	44	38	36	33	43.6	284
TOT	56	52	49	43	38	33	33	43.5	1857

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	6.3	9.4	15.6	34.4	34.4	82	32		
0600	.0	2.2	19.0	19.0	34.8	37.0	64	46		
1200	.0	3.6	8.3	23.0	22.2	38.9	83	36		
1800	.0	3.6	10.7	23.0	32.1	28.1	81	28		
TOT	0	6	15	27	44	50	83	142		

JULY

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1854-1973

AREA 0013 PUERTO DESEADO
47.54 62.9W

TABLE 17

PCT PRPO OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIP	33 36	37 40	41 44	43 46	49 52	TOT	% FOG	% FOG
7/8	.0	.0	.0	.7	.0	1	.0	.7
6	.0	.0	.0	1.4	.7	2	.0	2.1
5	.0	.0	.0	.0	1.4	2	.0	1.4
4	.0	.0	1.4	2.9	.7	7	.7	4.3
3	.0	.0	.0	.0	3.7	10	.7	6.4
2	.0	.0	.0	11.4	1.4	18	3.6	9.3
1	.0	.0	.7	6.4	.0	10	.7	6.4
0	.0	.0	8.6	3.6	.0	17	2.1	10.0
-1	.0	.0	7.9	2.1	.0	14	.0	10.0
-2	.0	2.1	12.9	.0	.0	21	2.1	12.9
-3	.0	2.9	8.6	.0	.0	16	.7	10.7
-4	.7	.7	4.3	.7	.0	9	.0	6.4
-5	.0	.7	1.4	.7	.0	4	.0	2.9
-6	.7	1.4	.0	.7	.0	4	.0	2.9
-7/-8	.0	.7	.0	.0	.0	1	.0	.7
-9/-10	2.1	.0	.0	.0	.0	3	.0	2.1
TOTAL	9		64	31	8	140	13	123
PCT	3.6	8.6	49.7	36.4	5.7	100.0	10.7	89.3

PERIOD: (OVER-ALL) 1905-1973

TABLE 18

PCT PRPO OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.0	2.0	.0	.0	.0	.0	2.0	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	.0	2.6	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	3.9	2.0	.0	.0	7.9	.0	.0	1.3	.0	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.6	14.3	.0	.0	17.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	2.0	2.6	.0	.0	4.6	.0	.0	.0	.3	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	13.2	19.1	.0	.0	34.2	.0	1.3	1.3	.0	.0	.0	2.6

MGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.0	2.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.0	.0	.0	.0	.0	2.0	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	.0	.0	.0	.0	2.0	.7	.7	.0	.0	.0	.0	1.3

PERIOD: (OVER-ALL) 1963-1973

JULY

AREA 0015 PUERTO RISEADO
47.35 62.9M

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	SW							PCT	NW							TOTAL PCT	
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	2.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	2.6	.0	.0	2.6	.0	.0	2.6	.0	.0	.0	.0	.0	.0	2.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	2.6	2.6	.0	.0	.0	.0	.0	.0	2.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
8-9	.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
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	.0	2.6	2.6	.0	.0	7.2	.0	2.6	2.6	.7	.0	.0	.0	.0	.0	9.9

HGT	W							PCT	NW							TOTAL PCT	
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.0	2.0	.0	.0	.0	.0	2.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7
1-2	.0	.0	7.2	.0	.0	.0	9.9	.0	.0	3.3	.0	.0	.0	.0	.0	.0	3.3
3-4	.0	.0	.0	9.6	.0	.0	9.6	.0	.0	7.9	.7	.0	.0	.0	.0	.0	8.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	2.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	1.3
8-9	.0	.0	.0	4.8	.0	.0	4.8	.0	.0	2.6	.7	.0	.0	.0	.0	.0	3.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.6	19.8	4.6	.0	.0	25.0	.0	.7	17.1	2.0	.0	.0	.0	.0	.0	19.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	7.9	.0	.0	.0	.0	10.5	
1-2	.0	3.3	19.8	.0	.0	.0	21.1	
3-4	.0	.0	26.3	5.3	.0	.0	31.6	
5-6	.0	2.6	2.6	.0	.0	.0	5.3	
7	.0	.0	3.3	21.1	.0	.0	26.3	
8-9	.0	.0	2.6	2.6	.0	.0	5.3	
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	.7	.0	.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	19.8	52.6	26.9	.0	.0	100.0	38

PERIOD: (OVER-ALL) 1952-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
6-7	6.0	4.5	17.9	6.0	6.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	4
8-9	.0	.0	7.5	11.9	16.4	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	6
10-11	.0	.0	.0	1.5	3.0	1.5	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	10
12-13	.0	.0	.0	1.5	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
513	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDFY	.0	.0	1.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	4
TOTAL	4	3	18	16	17	4	2	0	3	0	0	0	0	0	0	0	0	0	0	67	5
PCT	6.0	4.5	26.9	23.9	25.4	6.0	3.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1903-1973
(OVER-ALL) 1869-1973

AUGUST

AREA 0015 PUERTO RISEADO
47.35 62.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG MD PCPN	FOG MD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	15.4	.0	.0	.0	.0	.0	.0	15.4	15.4	.0	15.4	.0	.0	.0	53.8
E	10.3	10.3	.0	.0	.0	.0	.0	20.3	.0	.0	7.7	.0	.0	.0	71.8
SE	14.8	.0	.0	.0	.0	.0	.0	14.8	14.8	.0	3.7	.0	.0	.0	66.7
S	.0	3.3	3.3	.0	2.7	.0	.0	13.3	5.3	.0	.0	3.3	.0	.0	76.0
SW	.0	.0	.0	.0	5.1	.0	.0	5.1	3.4	.0	3.4	.0	.0	.0	88.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	.0	.0	.0	92.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	.0	.0	.0	94.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	2.1	1.4	.7	.0	1.4	.0	.0	5.6	2.8	.0	4.9	.7	.0	.0	86.1
TOT OBS:	144														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG MD PCPN	FOG MD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	.0	.0	.0	.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	.0	97.2
0600	.0	.0	.0	.0	1.9	.0	.0	2.9	3.7	.0	3.7	.0	.0	.0	89.7
1200	3.3	.0	2.6	.0	2.6	.0	.0	10.3	.0	.0	5.3	.0	.0	.0	86.2
1800	2.6	3.3	.0	.0	.0	.0	.0	7.9	7.6	.0	7.9	2.6	.0	.0	78.9
TOT PCT	2.0	1.4	.7	.0	1.4	.0	.0	5.4	2.7	.0	4.8	.7	.0	.0	86.4
TOT OBS:	147														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.5	2.4	4.4	2.2	.6	.1		10.3	16.8		11.0	13.0	9.8	10.4	9.7	9.3	12.1	8.7
NE	.3	1.8	2.0	1.3	.1	.0		3.4	14.8		3.5	3.7	4.3	3.5	3.9	6.6	.0	5.3
E	.4	1.3	1.8	1.1	.1	.0		4.3	14.8		4.6	3.1	4.3	4.9	4.8	4.1	6.0	6.1
SE	.3	1.6	1.7	1.0	.1	.0		4.8	14.7		3.3	4.3	4.3	3.9	3.6	3.6	1.7	5.8
S	.3	2.1	2.9	1.6	1.3	.8		9.1	21.7		9.7	9.0	8.7	9.1	10.1	8.6	12.9	8.3
SW	.5	4.6	6.6	3.6	3.2	.8		21.3	21.8		20.6	18.1	18.3	21.7	21.7	20.6	22.4	26.5
W	1.0	6.0	8.9	3.0	3.3	.6		24.8	19.6		24.4	26.4	18.3	22.1	24.4	26.9	23.3	23.5
NW	.7	3.0	8.0	4.7	1.7	.5		18.6	19.6		19.9	20.1	31.5	22.2	18.1	17.3	21.6	13.8
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	.4	4.3	.8	1.9	.8	.0	2.0
TOT OBS	99	414	634	403	189	33	1819		19.0		272	245	23	233	263	483	29	247
TOT PCT	3.4	22.8	34.1	22.4	10.4	1.9		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40				00	03	06	09	12	15	18	21
N	1.8	4.1	3.2	1.3	.2		10.3	16.8		11.9	10.3	9.8	9.1
NE	.8	2.3	1.6	.8	.0		3.4	14.8		3.6	3.4	3.8	4.7
E	.8	2.0	1.4	.4	.0		4.3	14.8		3.9	4.9	4.3	6.1
SE	.8	1.7	1.8	.4	.0		4.8	14.7		3.8	4.0	3.6	3.4
S	1.4	2.4	2.7	1.3	1.3		9.1	21.7		9.3	9.1	9.1	8.8
SW	1.8	6.4	6.3	4.2	2.4		21.3	21.8		19.4	20.8	21.0	26.1
W	3.0	8.3	7.6	3.6	2.2		24.8	19.6		23.3	21.6	26.0	23.5
NW	1.8	3.8	7.1	3.1	.9		18.6	19.6		20.0	22.9	17.6	14.6
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0
CALM	1.2						1.2	.0		.8	1.1	1.2	1.8
TOT OBS	238	605	576	271	128	1819		19.0		317	278	748	276
TOT PCT	13.1	23.3	31.7	14.9	7.0		100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1903-1973
(OVER-ALL) 1869-1973

AUGUST

AREA 0015 PUERTO RIESADO
47.93 62.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0003	.8	4.8	23.4	25.4	23.6	9.3	2.7	18.8	100.0	517
0409	1.1	7.9	21.6	38.1	16.2	10.8	4.3	18.4	100.0	278
1215	1.2	2.9	22.5	35.4	23.9	11.4	2.7	19.4	100.0	748
1821	1.8	3.3	23.8	37.0	22.3	9.4	2.3	18.8	100.0	278
TOT	2.1	7.8	41.4	65.6	40.8	18.9	3.3	19.0		1819
PCT	1.2	4.3	22.8	36.1	22.4	10.4	2.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
NE	.0	.0	.9	2.2		7.7
E	.0	.0	2.7	2.2		7.2
SE	.0	.0	.0	1.1		8.0
S	3.2	.8	4.6	4.9		5.3
SW	9.9	6.2	7.5	.0		3.1
W	13.2	3.4	5.4	1.1		2.6
NW	7.0	3.9	4.6	1.3		3.3
VAR	.0	.0	.0	.0		.0
CALM	.0	1.1	.0	.0		3.0
TOT OBS	36	19	26	12	93	3.7
TOT PCT	36.7	20.4	28.0	12.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, MM >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	CEILING HEIGHTS (FT, MM >4/8)										NH <5/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3000	6000	8000+	9000+		
N	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	8.1
NE	1.1	.0	.0	.0	1.1	.3	.0	.0	.0	.0	.0	.3
E	.0	.0	.0	1.1	1.1	1.9	.0	.0	.0	.0	.0	.8
SE	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	5.1	.3	3.2	.0	.0	.0	.0	4.0
SW	.0	.0	.0	1.1	1.3	1.6	1.1	.0	.0	.0	.0	18.5
W	.0	.0	.0	.0	1.1	2.2	.0	.0	.0	.0	.0	21.6
NW	.0	.0	.0	1.1	1.3	.0	.0	.0	.0	.0	1.1	13.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
TOT OBS	1	0	0	3	13	6	4	0	0	0	1	69
TOT PCT	1.1	.0	.0	3.2	16.0	6.3	4.3	.0	.0	.0	1.1	69.9

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>4000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>3000	4.2	5.3	5.3	5.3	5.3	5.3	5.3	5.3
>2000	9.3	11.6	11.6	11.6	11.6	11.6	11.6	11.6
>1000	17.9	24.2	23.3	26.3	26.3	26.3	26.3	26.3
>600	18.9	27.4	28.4	29.3	29.3	29.3	29.3	29.3
>400	18.9	27.4	28.4	29.3	29.3	29.3	29.3	29.3
>150	18.9	27.4	28.4	29.3	29.3	29.3	29.3	29.3
>0	18.9	27.4	28.4	29.3	30.3	30.3	30.3	30.3
TOTAL	18	26	27	28	29	29	29	29

TOTAL NUMBER OF OBS: 93

PCT FREQ NH <5/8: 69.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
26.9	12.5	6.7	7.7	12.5	2.9	5.8	10.6	19.3	1.0	104

AUGUST

PERIOD: (PRIMARY) 1903-1973
(OVER-ALL) 1869-1973

AREA 0015 PUERTO RISEANO
47.33 62.8W

TABLE 8

PERCENT FREQ UP WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	1.4	
	TOT %	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	1.4	
1/2<1	PCP	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	1.4	
	NO PCP	.0	.7	.0	.0	.0	.0	.3	.3	.0	.0	1.4	
	TOT %	.0	.7	.7	.7	.0	.0	.3	.3	.0	.0	2.8	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
2<5	PCP	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.0	.0	.7	.7	.0	.0	.0	.0	1.4	
5<10	PCP	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	1.4	
	NO PCP	.7	1.7	3.0	1.0	4.2	2.1	4.3	3.1	.0	.0	20.8	
	TOT %	.7	1.7	3.6	1.0	4.2	2.8	4.3	3.1	.0	.0	22.2	
10+	PCP	.0	.0	.0	.0	1.0	.3	.0	.0	.0	.0	1.4	
	NO PCP	8.5	1.4	2.4	2.4	7.1	16.5	17.0	14.1	.0	.7	70.1	
	TOT %	8.5	1.4	2.4	2.4	8.2	16.8	17.0	14.1	.0	.7	71.5	
TOT OBS													144
TOT PCT		9.2	4.3	6.8	4.7	13.0	20.3	22.8	18.2	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.3	.0	.0	.0	.0	.0	.3	1.1	.0	.0	1.6	
	4-10	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	11-21	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.3	.0	.0	.0	.0	.0	.3	1.1	.0	.0	3.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.3	
	4-10	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.3	.3	.3	.0	.0	.0	.0	.0	.0	1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.6	.3	.3	.0	.0	.3	.3	.0	.0	2.7	
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	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.3	.0	.0	.0	.3	.3	.0	.0	.0	1.1	
	TOT %	.0	.3	.0	.0	.0	.3	.3	.0	.0	.0	1.1	
2<5	0-3	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.3	.0	.0	.0	.3	.0	.0	.3	.0	.0	1.1	
	22+	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	1.1	
	TOT %	.3	.3	.3	.0	.3	.3	.0	.3	.0	.0	2.7	
5<10	0-3	.0	.3	.3	.0	.0	.0	.3	.0	.0	.0	1.1	
	4-10	.0	.3	1.2	.7	.3	1.1	.3	.3	.0	.0	4.8	
	11-21	.3	1.1	1.3	.8	1.3	1.3	2.9	1.9	.0	.0	11.2	
	22+	.0	.3	1.1	.0	1.3	2.1	1.9	.0	.0	.0	8.0	
	TOT %	1.3	2.4	3.9	1.3	3.2	4.3	5.6	2.7	.0	.0	25.0	
10+	0-3	1.1	.0	.0	.0	.3	.3	.3	.3	.0	1.1	3.7	
	4-10	.3	.3	1.1	1.1	1.2	2.7	1.7	3.2	.0	.0	13.3	
	11-21	3.3	.3	1.1	.3	3.1	4.7	8.5	6.0	.0	.0	32.0	
	22+	1.7	1.1	.3	.0	1.7	6.3	2.8	1.1	.0	.0	15.4	
	TOT %	6.6	2.7	2.7	1.9	6.0	19.2	19.8	11.6	.0	1.1	65.4	
TOT OBS													188
TOT PCT		11.8	6.9	7.6	3.9	11.7	20.5	20.7	19.8	.0	1.1	100.0	

AUGUST

PERIOD: (PRIMARY) 1903-1973
(OVER-ALL) 1869-1973

AREA 0015 PUERTO RISEADO
47.55 62.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NM >4/8) AND OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	190	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY MGT	TOTAL OBS
00003	.0	.0	.0	.0	11.1	.0	3.7	.0	.0	.0	14.8	85.2	27
06009	.0	.0	.0	4.8	14.3	.0	.0	.0	.0	4.8	23.8	76.2	21
12015	4.3	.0	.0	4.3	17.4	13.0	8.7	.0	.0	.0	47.8	52.2	23
18021	.0	.0	.0	3.7	14.8	11.1	3.7	.0	.0	.0	33.3	66.7	27
TOT	1	0	0	3	14	6	4	0	0	1	29	69	98
PCT	1.0	.0	.0	3.1	14.3	6.1	4.1	.0	.0	1.0	29.6	70.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	2.1	.0	.0	9.4	23.4	68.1	47
06009	2.3	2.3	2.3	.0	29.5	63.6	44
12015	5.7	3.8	1.9	.0	22.6	66.0	53
18021	2.1	4.3	.0	4.3	23.5	63.8	47
TOT	6	5	2	5	48	123	191
PCT	3.1	2.6	1.0	2.6	23.1	63.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING MGT (FEET/NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	13.4	84.6	26
06009	.0	.0	4.8	19.0	76.2	21
12015	4.3	4.3	13.6	36.4	50.0	23
18021	.0	.0	7.7	26.9	65.4	26
TOT	1	1	6	23	66	95
PCT	1.1	1.1	6.8	24.2	69.5	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	2.5	.0	2.5	.0	.0	6	3.1
48/48	.0	.0	.0	1.7	13.4	6.8	5.1	.0	32	27.1
40/44	.0	.0	.0	4.2	7.6	18.6	13.6	6.5	63	53.4
35/39	.0	.0	.0	.0	3.4	5.1	2.5	1.7	15	12.7
30/34	.0	.0	.0	.0	.0	.8	.8	.0	2	1.7
TOTAL	0	0	1	8	18	45	31	18	118	100.0
PCT	.0	.0	.8	4.2	15.3	38.1	26.3	15.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	CR	CALM
1.5	.0	.0	.0	.0	.0	.6	3.0	.0	.0
6.1	1.1	.8	.0	.8	3.0	9.1	8.4	.0	.0
4.0	1.9	4.0	2.1	8.5	10.6	12.7	9.5	.0	.0
.0	.0	.6	.2	3.1	3.4	1.7	.8	.0	.8
.0	.0	.0	.0	.0	.8	.6	.2	.0	.0
11.7	3.0	5.3	2.3	14.4	17.8	24.8	19.9	.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
00003	53	50	48	43	37	34	31	42.8	512
06009	53	50	47	43	37	34	32	42.4	273
12015	55	51	49	44	38	34	33	43.3	736
18021	54	51	49	43	37	35	32	43.4	269
TOT	53	51	48	43	37	34	31	43.1	1790

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.1	21.9	28.1	34.4	12.5	78	32		
06009	.0	3.7	14.8	40.7	22.2	18.5	79	27		
12015	.0	6.5	4.5	31.6	19.4	16.1	78	31		
18021	.0	6.7	16.7	33.3	30.0	13.3	78	30		
TOT	0	6	18	46	32	18	78	120		

AUGUST

PERIOD: (PRIMARY) 1963-1973
(OVER-ALL) 1969-1973

AREA 0015 PUERTO RISEADO
47.55 62.8W

TABLE 17

PCT FRQ 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	TOT	% PCC	NO FOG
9/10	.0	.0	.0	.0	.7	.0	1	.0	.7
7/8	.0	.0	.0	.0	1.4	.0	2	.0	1.4
5	.0	.0	.0	1.4	.7	.0	3	.0	2.1
4	.0	.0	.0	2.1	.0	.0	3	.0	2.1
3	.0	.0	.0	8.4	.0	.0	9	.0	8.4
2	.0	.0	8.4	8.4	.7	.0	19	.0	19.6
1	.0	.0	8.4	9.7	.0	1.4	15	.0	10.7
0	.0	.0	8.6	2.1	.7	.0	18	2.1	9.3
-1	.0	1.4	9.3	1.4	.0	.0	17	.0	12.1
-2	.0	2.1	7.9	.0	.0	.0	14	.7	9.3
-3	.0	2.9	3.6	.0	.0	.0	9	.0	8.4
-4	.0	4.3	3.8	.0	.0	.0	11	1.4	8.4
-5	.7	2.9	1.4	.0	.0	.0	7	.0	5.0
-6	.0	2.1	1.4	.0	.0	.0	3	.7	2.9
-7/-8	.0	.7	.7	.0	.0	.0	2	.0	1.4
-9/-10	2.1	1.4	.0	.0	.0	.0	5	.0	3.6
-11/-13	.7	.7	.0	.0	.0	.0	2	.0	1.4
TOTAL	5	26	65	36	6	2	140	5.0	75.0
PCT	3.6	18.6	46.4	29.7	4.3	1.4	100.0	5.0	75.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	1.4
3-4	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	2.1	7.6	.0	.0	9.7	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	4.2	7.6	.0	.0	11.8	.0	1.4	.0	.0	.0	.0	1.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.2	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	5.6	2.8	.0	.0	8.3	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	2.8	.0	.0	.0	2.8	.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	4.2	8.3	2.8	.0	.0	15.3	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1973

AUGUST

AREA 0015 WUE-TO DESEADO
47.84 62.8W

TABLE 18 (CON1)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	2.1	.0	.0	.0	.0	2.1	.0	.7	.7	.0	.0	.0	.0	1.4	
3-4	.0	.0	3.6	.0	.0	.0	3.6	.0	.0	.7	.0	.0	.0	.0	.7	
5-6	.0	.0	3.6	.0	.0	.0	3.6	.0	.0	.0	3.6	.0	.0	.0	3.6	
7	.0	.0	2.1	2.1	.0	.0	4.2	.0	.0	.7	6.3	.0	.0	.0	6.9	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.1	13.2	2.1	.0	.0	17.4	.0	.7	2.1	12.8	.0	.0	.0	19.8	

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1-2	.0	2.1	2.1	.0	.0	.0	4.2	.0	2.8	.7	2.8	.0	.0	.0	6.3		
3-4	.0	.0	2.8	.0	.0	.0	2.8	.0	.0	2.8	6.9	.0	.0	.0	9.7		
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	.0	1.4		
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	4.9	.0	.0	4.9	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	2.1	14.6	4.9	.0	.0	21.5	.0	2.8	3.5	10.4	.7	.0	.0	17.4		

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	.0	.0	.0	.0	.0	.0	.0	083
1-2	2.8	11.1	3.6	.0	.0	.0	19.4	
3-4	.0	7.8	30.6	2.8	.0	.0	36.1	
5-6	.0	.0	13.9	13.9	.0	.0	27.8	
7	.0	.0	2.8	6.3	.0	.0	11.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	3.6	.0	.0	3.6	
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	2.8	13.9	32.8	30.6	.0	.0	100.0	

PERIOD: (OVER-ALL) 1950-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-10	61-70	71-86	87+	TOTAL	MEAN HGT
<1	1.3	1.9	19.2	10.3	.0	2.6	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	4
1-2	.0	.0	7.7	3.1	9.0	1.3	3.8	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	5
3-4	.0	.0	.0	2.6	3.8	3.1	3.8	3.8	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	9
5-6	.0	.0	1.3	1.3	.0	.0	.0	.0	3.8	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	11
7	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
10-11	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
12-13	.0	1.3	.0	1.3	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
>17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	.0	1.3	.0	1.3	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	1	2	22	17	10	7	8	8	4	2	0	0	0	0	0	0	0	0	0	78	6
PCT	1.3	2.6	28.2	21.0	12.8	9.0	10.3	6.4	5.1	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY, 1902-1972
(OVER-ALL) 1862-1972

AREA 0015 PUERTO RISEADO
47.35 63.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SND	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18.4	.0	.0	.0	81.6
NE	.0	.0	14.8	.0	.0	.0	.0	14.8	3.7	.0	3.7	.0	.0	.0	77.8
E	.0	.0	.0	.0	.0	.0	.0	.0	42.9	.0	.0	.0	.0	.0	57.1
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	86.7	.0	.0	33.3
S	.0	.0	.0	.0	.0	.0	.0	.0	8.8	.0	.0	17.6	.0	.0	73.5
SW	.0	7.6	.0	.0	.0	.0	3.8	11.4	1.0	.0	.0	.0	.0	.0	87.6
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	.0	.0	.0	95.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	4.1	.0	10.3	.0	.0	.0	85.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.0	1.7	.8	.0	.0	.0	.8	3.3	2.5	.0	7.3	1.7	.0	.0	85.0
TOT OBS:	120														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SND	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	.0	.0	.0	.0	.0	.0	.0	.0	3.8	.0	11.3	7.7	.0	.0	76.9
0600	.0	3.4	3.4	.0	.0	.0	.0	6.9	.0	.0	6.9	.0	.0	.0	86.2
1200	.0	3.0	.0	.0	.0	.0	3.0	6.1	6.1	.0	2.0	.0	.0	.0	84.8
1800	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.8	.0	.0	.0	91.2
TOT PCT	.0	1.6	.8	.0	.0	.0	.8	3.3	2.5	.0	7.4	1.6	.0	.0	85.2
TOT OBS:	122														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-9	10-19	20-29	30-39	40-49	50+				00	03	06	09	12	15	18	21
N	.7	4.0	4.3	3.2	.6	.0	13.0	16.1	16.1	14.3	26.1	11.8	12.8	10.8	22.9	11.6	
NE	.3	1.1	1.4	.7	.1	.0	3.6	13.8	2.1	3.1	4.3	3.8	3.3	4.7	9.4	2.6	
E	.6	1.6	1.1	.2	.0	.0	3.5	9.6	3.1	2.8	.0	3.3	4.3	3.3	.0	3.1	
SE	.7	1.7	1.1	.3	.3	.1	4.3	13.3	4.6	3.4	4.9	4.0	3.2	4.0	.0	3.4	
S	.7	2.2	2.6	1.1	.9	.4	8.0	18.3	8.3	7.7	9.1	6.4	3.3	9.3	4.2	9.3	
SW	.8	3.6	6.4	3.6	2.1	.7	19.1	18.6	13.8	13.6	19.3	19.8	18.3	22.3	26.0	20.4	
W	.9	7.9	9.0	4.1	1.2	.3	23.4	15.8	22.3	23.6	19.3	23.3	23.6	23.6	18.8	22.2	
NW	1.0	6.2	9.4	4.8	1.3	.2	22.9	16.6	24.3	23.8	17.0	23.0	24.3	19.6	18.8	23.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.1	.0	.0	.0	.0	.0	2.1	.0	2.8	1.3	.0	2.4	1.8	2.4	.0	2.1	
TOT OBS	118	484	539	272	98	26	1303	16.0	21.7	19.3	22	21.0	21.7	42.4	24	19.4	
TOT PCT	7.9	30.2	29.6	18.1	6.3	1.7	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40				00	03	06	09	12	15	18	21
N	2.3	4.6	4.3	1.6	.2	13.0	16.1	15.4	13.1	11.3	12.8		
NE	.9	1.3	1.2	.2	.0	3.6	13.8	2.3	3.9	4.3	3.3		
E	1.3	1.3	.7	.0	.0	3.3	9.6	4.0	3.0	3.6	2.8		
SE	1.7	1.4	.8	.2	.2	4.3	13.3	3.0	4.1	4.4	3.2		
S	1.6	2.8	1.6	1.0	.9	8.0	18.3	8.1	6.7	8.0	6.9		
SW	2.8	6.7	3.3	2.8	1.3	19.1	18.6	14.7	19.7	21.0	21.0		
W	3.7	10.1	6.8	2.1	.8	23.4	15.8	23.0	24.9	23.7	21.8		
NW	2.0	9.3	7.7	2.1	.9	22.9	16.6	23.1	22.4	21.3	24.3		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	2.1	.0	.0	.0	.0	2.1	.0	2.2	2.2	2.2	1.8		
TOT OBS	291	968	429	130	63	1303	16.0	41.2	23.2	64.1	21.8		
TOT PCT	19.4	37.8	28.3	10.0	4.3	100.0		100.0	100.0	100.0	100.0		

SEPTEMBER

PERIOD: (PRIMARY) 1902-1972
(OVER-ALL) 1862-1972

AREA 0015 PUERTO RISEADO
47.95 69.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	2.2	8.0	30.1	31.8	19.7	5.6	2.7	16.1	100.0	412
0600Z	2.2	4.7	35.3	32.3	18.5	6.0	.0	15.3	100.0	232
1200Z	2.2	4.5	28.4	38.4	17.8	7.0	1.7	16.4	100.0	641
1800Z	1.8	6.0	30.3	38.1	15.6	7.3	.9	15.7	100.0	218
TOT	32	86	454	533	272	98	28	16.0		1503
PCT	2.1	5.7	30.2	35.6	18.1	6.5	1.7	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)					MEAN CLOUD COVER
	0-2	3-4	5-7	8-8	TOTAL OBS	
N	9.2	.0	2.1	8.3		4.5
NE	2.4	1.2	.0	3.3		4.6
E	.0	.0	.0	.4		8.0
SE	1.2	.6	1.5	.0		3.3
S	.0	3.0	3.0	.0		5.0
SW	10.4	4.8	3.9	3.9		3.4
W	11.9	.0	1.2	3.0		2.5
NH	13.7	1.2	.3	6.8		3.2
VAR	.0	.0	.0	.0		.0
CALM	1.2	.0	1.2	.0		4.0
TOT OBS	42	9	11	22	84	3.7
TOT PCT	50.0	10.7	13.1	26.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION											TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	
N	1.8	.0	.9	.0	1.2	.0	.0	.0	1.2	2.1	12.8	
NE	.3	1.2	1.5	.0	.0	.0	.0	.0	.0	.0	3.0	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
SE	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	3.0	
S	.0	.0	.0	.0	1.8	1.2	.0	.0	.0	.0	3.0	
SW	.0	.0	.0	.0	.3	.0	3.6	1.2	.0	.0	17.9	
W	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	1.0	
NH	.3	.0	.0	.3	3.6	.0	.0	.0	.0	1.5	16.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	1.2	
TOT OBS	2	1	2	2	6	1	4	1	1	3	61	84
TOT PCT	2.4	1.2	2.4	2.4	7.1	1.2	4.8	1.2	1.2	3.6	72.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>8	>2	>1	>1/2	>1/4	>50YD	>0
>3000	2.3	4.7	4.7	4.7	4.7	4.7	4.7	4.7
>2000	2.3	4.7	5.8	5.8	5.8	5.8	5.8	5.8
>1000	7.0	9.3	10.3	10.3	10.3	10.3	10.3	10.3
>700	8.1	10.3	11.6	11.6	11.6	11.6	11.6	11.6
>400	13.1	17.4	18.6	18.6	18.6	18.6	18.6	18.6
>300	18.6	20.9	22.1	22.1	22.1	22.1	22.1	22.1
>200	20.9	23.3	24.4	24.4	24.4	24.4	24.4	24.4
>150	20.9	24.4	25.6	25.6	25.6	25.6	25.6	25.6
>100	20.9	24.4	25.6	25.6	25.6	26.7	27.9	27.9
TOTAL	18	21	22	22	22	23	24	24

TOTAL NUMBER OF OBS: 86

PCT FREQ NH <5/8: 72.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL OBS	
	31.5	22.3	6.7	7.9	3.4	.0	7.9	5.6	12.4	2.2	89

SEPTEMBER

PERIOD: (PRIMARY) 1902-1972
(OVER-ALL) 1862-1972

AREA 0019 PUERTO DESEADO
47.35 62.04

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.3	.2	.0	.0	.0	.0	.0	.2	.0	.0	1.7	
	TOT %	1.3	.2	.0	.0	.0	.0	.0	.2	.0	.0	1.7	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.7	.0	.0	.0	.0	.0	.0	.8	.0	.0	2.5	
	TOT %	1.7	.0	.0	.0	.0	.0	.0	.8	.0	.0	2.5	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.8	
	NO PCP	1.3	.0	.0	.0	.0	.0	.0	.2	.0	.0	1.7	
	TOT %	1.3	.0	.0	.0	.0	.8	.0	.2	.0	.0	2.5	
5<10	PCP	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	1.7	
	NO PCP	8.4	.8	.0	.4	2.5	2.7	4.0	2.9	.0	.0	21.8	
	TOT %	8.4	1.7	.0	.4	2.5	3.6	4.0	2.9	.0	.0	23.5	
10+	PCP	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.8	
	NO PCP	11.1	3.8	.8	.2	4.6	16.8	15.9	16.2	.0	1.7	69.9	
	TOT %	11.1	3.8	.8	.2	4.6	17.6	15.9	16.2	.0	1.7	69.7	
TOT OBS												119	
TOT PCT	23.9	3.7	.8	.6	7.1	22.1	17.9	20.4	.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	.5	.0	.0	.0	.0	.0	.0	.2	.0	.0	.7	
	4-10	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.1	.2	.0	.0	.0	.0	.0	.2	.0	.0	1.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	1.4	.0	.0	.0	.0	.0	.0	.7	.0	.0	2.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.4	.0	.0	.0	.0	.0	.0	.7	.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	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	1.4	.0	.7	.0	.0	.0	.0	2.1	
	11-21	.8	.0	.0	.0	.0	.0	.0	.2	.0	.0	.7	
	22+	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	1.2	.0	.0	1.4	.0	.7	.0	.2	.0	.0	2.3	
5<10	0-3	1.4	.0	.7	.4	1.1	.4	.4	.0	.0	.0	4.3	
	4-10	1.4	.0	.0	.7	.7	.2	.9	.4	.0	.0	6.3	
	11-21	2.3	.0	.0	.0	.0	.0	1.1	1.9	.0	.0	6.3	
	22+	2.0	1.4	.0	.0	1.1	2.3	1.1	1.2	.0	.0	9.2	
	TOT %	7.1	1.4	.7	1.1	2.8	3.0	3.4	2.3	.0	.0	22.0	
10+	0-3	.0	.0	.0	.0	.0	.0	.7	.7	.0	2.1	3.5	
	4-10	3.7	.0	.0	.2	2.0	3.0	7.8	9.4	.0	.0	23.8	
	11-21	2.8	1.1	.5	.0	2.3	3.9	3.0	3.9	.0	.0	23.4	
	22+	2.0	2.1	.0	.0	1.1	3.3	2.0	1.8	.0	.0	16.2	
	TOT %	10.9	3.2	.5	.2	5.3	10.3	13.2	17.6	.0	2.1	70.9	
TOT OBS												141	
TOT PCT	21.3	4.8	1.2	2.7	6.2	20.0	18.6	21.1	.0	2.1	100.0		

SEPTEMBER

PERIOD: (PRIMARY) 1967-1972
(OVER-ALL) 1962-1972

AREA 0015 PUERTO RISEADO
47.55 93.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	100	200	300	400	1000	2000	3000	4000	5000	6000	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0	.0	.0	9.1	90.9	11
0600	.0	.0	5.0	5.0	.0	5.0	9.0	9.0	.0	5.0	30.0	70.0	30.0	70.0	70
1200	2.4	3.4	.0	2.4	13.8	.0	3.4	.0	3.4	.0	31.0	69.7	31.0	69.7	29
1800	3.6	.0	3.6	3.6	3.6	.0	7.1	.0	.0	7.1	28.6	71.4	28.6	71.4	28
TOT	2	1	2	3	8	0	1	4	1	1	3	24	27.3	72.7	88
PCT	2.3	1.1	2.3	3.4	5.5	0	1.1	4.5	1.1	1.1	3.4	27.3	27.3	72.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
0000	.0	6.3	.0	3.1	34.4	56.3	2
0600	.0	3.0	.0	9.1	19.2	72.7	33
1200	2.4	.0	.0	.0	17.5	80.0	40
1800	2.4	.0	.0	2.0	21.1	79.7	38
TOT	2	3	0	3	31	102	143
PCT	1.4	2.1	.0	3.5	21.7	71.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <300	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000	.0	.0	9.1	9.1	81.8	11
0600	.0	3.3	21.1	15.8	63.2	19
1200	3.6	7.1	10.7	21.4	67.9	28
1800	3.6	7.1	14.3	17.9	67.9	28
TOT	2	3	12	15	39	86
PCT	2.3	3.8	14.0	17.4	68.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.0	.0	.0	.0	1	.9
85/89	.0	.0	.0	.0	.0	.0	.0	.0	1	.9
90/94	.0	.0	.0	.0	.0	.0	.0	.0	3	2.8
95/99	.0	.0	.0	4.7	5.7	17.0	16.0	6.6	53	50.0
40/44	.0	.0	.0	1.9	2.8	9.4	9.4	15.1	41	38.7
35/39	.0	.0	.0	.9	.9	1.9	2.8	.0	7	6.6
TOTAL	0	0	0	2	12	31	32	23	108	100.0
PCT	.0	.0	.0	7.5	11.3	29.2	30.2	21.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85/89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
95/99	17.5	3.8	.0	.5	1.4	4.7	8.3	12.0	.0	1.9
40/44	7.8	2.4	.7	.2	1.7	10.1	9.2	8.6	.0	.0
35/39	.0	.0	.0	.0	1.7	4.2	.7	.0	.0	.0
TOTAL	23.2	6.1	.7	2.6	3.7	20.0	18.2	19.6	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	95%	50%	50%	1%	MIN	MEAN	TOTAL OBS
0000	37	33	49	44	38	36	33	43.8	411
0600	53	50	49	43	34	35	35	43.4	232
1200	60	55	52	45	39	36	34	45.3	829
1800	61	54	52	46	39	35	34	45.3	209
TOT	61	54	51	45	39	36	33	44.6	1481

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	8.7	2.7	20.1	13.0	43.5	33	23
0600	.0	11.1	7.4	22.2	40.7	18.5	30	27
1200	.0	3.7	7.4	37.0	37.0	14.8	79	27
1800	.0	6.3	19.4	32.3	29.0	12.9	78	31
TOT	0	8	12	32	33	23	80	108

SEPTEMBER

PERIOD: (PRIMARY) 1902-1972
(OVER-ALL) 1862-1972

AREA 0015 PUERTO RISEADO
47.55 63.0W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIF	35 36	37 40	41 44	43 48	49 52	53 56	57 60	61 64	TOT	M FOG	MO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.8	1	.0	.8
9/10	.0	.0	.0	.8	.0	.0	.0	.0	1	.0	.0
7/8	.0	.0	.0	.0	.8	.0	.0	.0	1	.0	.8
6	.0	.0	.0	.0	.8	.0	.0	.0	1	.0	.8
5	.0	.0	.8	3.3	.8	.0	.0	.0	6	.0	3.0
4	.0	.0	.0	3.0	.8	.0	.0	.0	6	.0	3.0
3	.0	.0	3.3	5.7	.8	.0	.0	.0	13	.8	10.0
2	.0	.0	4.2	7.8	1.7	.0	.0	.0	19	2.3	10.8
1	.0	.0	.8	3.0	3.3	.0	.0	.0	11	.0	9.2
0	.0	.0	10.0	10.0	.0	.0	.0	.0	24	7.8	17.3
-1	.0	.8	10.0	1.7	.0	.8	.0	.0	18	.0	13.3
-2	.0	.0	8.7	.8	.0	.0	.0	.0	9	.0	7.3
-3	.0	4.2	1.7	.0	.0	.0	.0	.0	7	.0	3.8
-4	.0	1.7	.0	1.7	.0	.0	.0	.0	4	.0	3.3
-5	.0	1.7	.0	.0	.0	.0	.0	.0	2	.0	1.7
-6	.0	.8	.0	.0	.0	.0	.0	.0	1	.0	.8
-9/-10	.8	.0	.0	.0	.0	.0	.0	.0	1	.0	.8
TOTAL	1	11	45	31	10	1	0	1	120	8	112
PCT	.8	9.2	37.5	42.3	8.3	.8	.0	.8	100.0	4.7	93.3

PERIOD: (OVER-ALL) 1903-1972

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MSG	N					PCT	NE					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
01	.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
3-4	1.8	3.3	3.3	1.8	.0	11.8	.0	.0	1.8	.0	.0	1.8
5-6	.0	.0	1.8	.0	.0	1.8	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	1.8	.0	.0	1.8	.0	.0	.0	.0	.0	.0
10-11	.0	.0	1.8	1.8	.0	2.4	.0	.0	1.8	.0	.0	1.8
12	.0	.0	.0	.0	1.8	1.8	.0	.0	1.8	.0	.0	1.8
13-16	.0	.0	.0	1.8	.0	1.8	.0	.0	1.8	.0	.0	1.8
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	1.8
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	3.3	7.8	4.4	1.8	20.6	.0	.0	1.8	3.3	1.8	8.8

MSG	E					PCT	SE					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
01	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.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
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.9

PERIOD: (OVER-ALL) 1963-1972

SEPTEMBER

AREA 0015 PUERTO DESEADO
47.59 63.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	1.3	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0		
1-2	.0	.0	.0	.0	.0	.0	.0	.0	3.5	1.8	.0	.0	.0	5.3		
3-4	1.3	.0	1.8	.0	.0	.0	3.1	.0	3.5	.0	.0	.0	.0	3.5		
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	2.2	3.5	.0	.0	5.7		
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	.0	.0	3.5		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.4	.0	2.2		
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	2.6	.0	3.1	.0	.0	.0	3.7	.0	7.0	3.9	8.8	.4	.0	20.2		

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.0	2.6	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	2.6		
1-2	.0	.0	1.8	.0	.0	.0	1.8	.0	3.5	.0	.0	.0	.0	.0	3.5		
3-4	.0	1.3	2.6	.0	.0	.0	3.9	.0	.4	4.4	.4	.0	.0	.0	5.3		
5-6	.0	.0	1.8	.0	.0	.0	1.8	.0	3.5	3.9	1.8	.0	.0	.0	9.2		
7	.0	.0	.0	3.5	.0	.0	3.5	.0	.0	3.5	.0	.0	.0	.0	3.5		
8-9	.0	.0	.0	.0	1.3	.0	1.3	.0	.0	.4	1.8	.0	.0	.0	2.2		
10-11	.0	1.3	.0	.0	.0	.0	1.3	.0	.4	.4	.4	.0	.0	.0	1.3		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	3.3	6.1	3.5	1.3	.0	10.2	.0	10.3	12.7	4.4	.0	.0	27.6	100.0		

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.7	6.9	.0	.0	.0	.0	8.6	
1-2	.0	6.9	5.2	.0	.0	.0	12.1	
3-4	3.4	10.3	12.1	1.7	.0	.0	27.4	
5-6	.0	3.4	10.3	5.2	.0	.0	19.0	
7	.0	.0	3.4	6.9	.0	.0	10.3	
8-9	.0	.0	1.7	3.4	1.7	.0	6.9	
10-11	.0	1.7	1.7	3.4	.0	.0	6.9	
12	.0	.0	.0	1.7	1.7	.0	3.4	
13-16	.0	.0	.0	3.4	.0	.0	3.4	
17-19	.0	.0	.0	.0	1.7	.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	3.2	27.3	34.5	29.9	5.2	.0	100.0	38

PERIOD: (OVER-ALL) 1950-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.1	3.3	12.1	7.7	3.3	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	3
6-7	.0	.0	2.2	6.6	.0	2.2	.0	1.1	5.5	2.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	9
8-9	.0	1.1	1.1	2.2	4.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	6
10-11	.0	.0	.0	2.2	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
12-13	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	14
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	7.7	1.1	3.3	2.2	3.3	1.1	6.6	1.1	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	6
TOTAL	8	5	17	19	12	8	6	4	8	3	1	0	0	0	0	0	0	0	0	0	91	6
PCT	8.8	5.5	18.7	20.9	13.2	8.8	6.6	4.4	8.8	3.3	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1869-1973

AREA 0015 PUERTO RISEADO
47.35 63.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	5.7	1.4	.0	.0	.0	.0	.0	7.1	.0	.0	21.3	.0	.0	.0	71.6
NE	.0	.0	9.8	.0	.0	.0	.0	9.8	.0	.0	14.6	.0	2.4	.0	73.2
E	16.2	.0	.0	.0	.0	.0	.0	15.2	.0	.0	27.0	.0	8.1	.0	48.6
SE	13.3	.0	.0	.0	.0	.0	.0	11.3	.0	.0	13.3	.0	.0	.0	73.3
S	.0	26.4	.0	.0	.0	.0	.0	23.4	11.3	.0	.0	.0	.0	.0	62.3
SW	.0	1.9	3.8	.0	.0	.0	.0	5.8	9.6	.0	5.8	.0	.0	.0	78.8
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0	94.8
NW	.0	2.2	.0	.0	.0	.0	.0	2.2	.0	.0	6.9	.0	.0	.0	91.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.9	3.6	1.4	.0	.0	.0	.0	7.9	2.9	.0	11.4	.0	.7	.0	77.1
TOT OBS:	140														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
0000	.0	7.9	.0	.0	.0	.0	.0	7.9	7.9	.0	15.8	.0	2.6	.0	65.8
0600	7.1	3.6	7.1	.0	.0	.0	.0	17.9	.0	.0	7.1	.0	.0	.0	75.0
1200	2.4	.0	.0	.0	.0	.0	.0	2.4	2.4	.0	14.6	.0	2.4	.0	78.0
1800	2.9	2.9	.0	.0	.0	.0	.0	5.9	.0	.0	5.9	.0	.0	.0	88.2
TOT PCT	2.8	3.5	1.4	.0	.0	.0	.0	7.8	2.8	.0	11.3	.0	1.4	.0	76.6
TOT OBS:	141														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.5	4.0	6.0	3.5	.4	.0	14.5	19.9	17.5	15.0	19.4	15.6	15.2	10.8	18.5	15.4
NE	.5	2.7	2.0	1.1	.1	.0	6.2	12.8	5.6	5.1	11.1	4.0	5.8	7.5	7.3	6.6
E	.4	1.4	1.1	.6	.1	.0	3.7	12.3	5.1	5.8	.0	2.5	4.4	2.7	5.6	2.8
SE	.6	2.4	1.4	.6	.2	.0	5.2	12.1	3.7	4.7	11.1	4.3	4.0	5.9	3.2	5.9
S	1.1	3.1	2.8	1.2	1.1	.2	9.3	16.5	12.8	9.1	7.4	8.6	10.2	9.4	5.6	6.0
SW	.9	4.7	6.2	3.1	2.0	.7	17.6	18.7	16.8	14.6	15.7	18.7	17.9	18.1	16.9	18.9
W	.8	7.1	8.5	2.9	.8	.1	20.3	14.6	14.9	17.2	12.0	20.0	20.5	24.2	25.0	20.5
NW	.9	7.0	8.4	4.6	1.1	.1	22.0	15.9	23.6	26.3	23.1	23.5	20.2	19.3	17.7	21.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2						1.2	.0	.0	2.2	.0	.7	1.2	2.1	.0	.0
TOT OBS	79	367	412	197	66	12	1129	15.5	156	137	27	139	163	331	31	149
TOT PCT	6.6	32.5	36.5	17.4	5.8	1.1	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	09	18
N	2.1	5.4	5.7	1.2	14.5	19.9	16.3	16.3	12.2	15.9	
NE	2.0	2.4	1.4	.4	6.2	12.8	5.4	5.1	6.9	6.8	
E	1.3	1.3	.9	.1	3.7	12.3	5.3	2.1	3.3	3.3	
SE	1.6	2.5	.8	.3	5.2	12.1	4.2	5.4	5.5	5.5	
S	2.2	3.1	2.3	1.4	9.5	16.5	11.1	8.4	9.6	7.6	
SW	2.7	6.5	4.2	2.3	17.6	18.7	15.8	18.2	18.0	14.5	
W	2.9	9.9	5.6	1.6	20.3	14.6	18.0	18.7	23.0	21.3	
NW	2.8	9.9	6.5	2.3	22.0	15.9	24.8	25.2	19.6	21.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.2				1.2	.0	1.0	.6	1.8	.0	
TOT OBS	212	462	310	110	95	1129	293	166	496	174	
TOT PCT	18.8	40.9	27.5	9.7	3.1	100.0	100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1868-1973

OCTOBER

AREA 0013 PUERTO RISEADO
47.33 62.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	1.0	5.1	34.5	38.9	15.7	3.8	1.0	14.8	100.0	293
0400Z	.6	9.0	33.7	30.1	19.3	6.0	1.2	19.2	100.0	186
1201Z	1.8	4.2	31.5	36.9	16.9	7.5	1.2	16.0	100.0	496
1802Z	.0	6.3	31.0	37.4	20.1	4.6	.6	19.6	100.0	174
TOT	13	62	367	412	197	66	12	19.5		1129
PCT	1.2	5.5	32.5	36.5	17.4	5.8	1.1		100.0	

TABLE 4

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	TOTAL CLOUD OBS				MEAN CLOUD COVER
	0-2	3-4	5-7	8 &	
M	5.2	1.6	12.2	4.7	5.1
NE	1.0	1.3	2.9	2.1	5.1
E	1.6	1.0	.0	2.4	4.7
SE	.0	.0	.0	2.6	4.0
S	3.1	2.9	2.1	.8	2.9
SW	2.6	4.4	7.6	1.4	5.2
W	2.1	2.6	8.9	.8	5.1
NW	4.2	7.7	6.0	2.6	4.4
VAR	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0
TOT OBS	19	20	38	19	96
TOT PCT	19.8	20.8	39.6	19.8	100.0

TABLE 4

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	CEILING HEIGHTS (FT)										NH <5/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+		
	149	299	599	999	1999	3499	4999	6499	7999			
M	1.0	.0	.0	1.0	1.0	4.4	1.6	.0	.0	.0	14.3	
NE	.0	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	5.2	
E	.0	.0	.0	.0	.8	1.0	.0	.0	.0	.0	3.4	
SE	.0	.0	.0	1.0	1.3	.0	.0	.0	.0	.0	.3	
S	.0	.0	.0	1.0	1.8	.0	.0	.0	.0	.0	6.0	
SW	.0	.0	.0	1.0	6.8	.3	.0	.0	.0	.0	10.2	
W	.0	.0	.0	.0	.8	2.9	1.0	.0	.0	.0	9.6	
NW	.0	.0	.0	.0	2.1	1.8	.9	.0	1.0	.0	14.8	
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	1	0	0	5	15	10	3	0	1	0	61	96
TOT PCT	1.0	.0	.0	5.2	19.6	10.4	3.1	.0	1.0	.0	69.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>8500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>8000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>7500	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
>7000	9.3	14.7	14.7	14.7	14.7	14.7	14.7	14.7
>6500	22.1	30.9	30.9	30.9	30.9	30.9	30.9	30.9
>6000	24.2	35.8	35.8	35.8	35.8	35.8	35.8	35.8
>5500	24.2	35.8	35.8	35.8	35.8	35.8	35.8	35.8
>5000	24.2	35.8	35.8	35.8	35.8	35.8	35.8	35.8
>4500	24.2	35.8	35.8	35.8	35.8	35.8	35.8	35.8
>4000	24.2	35.8	35.8	35.8	35.8	35.8	35.8	35.8
TOTAL	23	34	34	34	34	34	33	33

TOTAL NUMBER OF OBS: 95

PCT FREQ NH <5/8: 69.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
22.4	11.2	12.2	9.2	7.1	7.1	4.1	8.2	17.3	1.0	96

OCTOBER

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1868-1973

AREA 0013 PUERTO RISEADO
47.95 63.2M

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	3.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3
	TOT %	3.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
	TOT %	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	PCP	1.4	.7	1.1	.4	2.5	1.1	.7	.0	.0	.0	.0	7.9
	NO PCP	4.3	1.8	3.2	1.1	.4	5.9	2.7	3.6	.0	.0	.0	22.9
	TOT %	5.7	2.5	4.3	1.4	2.9	7.0	3.4	3.6	.0	.0	.0	30.7
10+	PCP	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.7
	NO PCP	14.3	3.8	2.3	1.3	6.6	11.6	11.1	12.5	.0	.0	.0	63.6
	TOT %	14.7	3.8	2.3	1.3	6.6	11.6	11.1	12.9	.0	.0	.0	64.3
TOT OBS													140
TOT PCT		24.5	7.3	6.6	2.7	9.5	18.6	14.3	16.4	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (MM)	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	.0
	4-10	1.2	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	2.4
	11-21	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2
	22+	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2
	TOT %	3.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	4.9
1/2<1	0-3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
	4-10	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	1.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6
5<10	0-3	1.2	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	1.8
	4-10	1.5	.0	1.8	.0	.0	.0	.0	2.1	.0	.0	.0	5.3
	11-21	1.2	.9	.9	.9	1.8	4.7	2.3	1.3	.0	.0	.0	14.4
	22+	2.4	.9	.9	.3	.6	1.2	.6	1.3	.0	.0	.0	8.3
	TOT %	6.4	2.1	3.7	1.2	2.7	6.3	2.9	3.2	.0	.0	.0	30.5
10+	0-3	.3	.3	.3	.3	.6	.6	.0	.0	.0	.0	.0	3.0
	4-10	2.3	2.3	1.3	.2	.6	2.9	2.6	3.9	.0	.0	.0	18.3
	11-21	4.9	.6	.5	.9	3.4	3.8	6.9	6.6	.0	.0	.0	27.4
	22+	5.3	.3	.0	.0	1.1	4.1	1.3	.9	.0	.0	.0	13.4
	TOT %	13.0	3.3	2.3	1.4	3.6	11.4	11.6	13.4	.0	.0	.0	62.2
TOT OBS													164
TOT PCT		23.3	6.6	3.9	3.2	9.6	17.7	14.3	13.2	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1808-1973

AREA 0015 PUERTO RISEADO
47.95 63.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET; NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	149	299	500	999	1999	3499	4999	6499	7999				
0000	4.5	.0	.0	4.5	13.6	9.1	4.5	.0	.0	.0	36.4	63.6	22
0600	.0	.0	.0	5.0	25.0	10.0	5.0	.0	.0	.0	45.0	55.0	20
1200	.0	.0	.0	3.6	7.1	14.3	.0	.0	3.6	.0	28.6	71.4	28
1800	.0	.0	.0	7.7	19.2	7.7	3.8	.0	.0	.0	38.5	61.5	26
TOT	1	0	0	3	15	10	3	0	1	0	33	61	96
PCT	1.0	.0	.0	5.2	15.6	10.4	3.1	.0	1.0	.0	36.5	63.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	7.3	2.4	2.4	.0	24.4	63.4	41
0600	5.9	2.9	.0	2.9	32.4	55.9	34
1200	5.9	.0	.0	.0	27.5	66.7	31
1800	.0	.0	7.6	.0	38.5	59.0	39
TOT	8	2	2	1	30	102	185
PCT	4.8	1.2	1.2	.8	30.3	61.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR CEILING HGT (FEET; NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
0000	4.5	4.5	9.1	27.3	63.6	22
0600	.0	.0	5.0	40.0	55.0	20
1200	.0	.0	3.6	25.0	71.4	28
1800	.0	.0	8.0	32.0	60.0	25
TOT	1	1	6	29	60	95
PCT	1.1	1.1	6.3	30.5	63.2	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
60/64	.0	.0	.0	.0	.6	.0	.0	.0	1	.4
55/59	.0	.0	.6	.0	.0	.6	.6	.6	3	1.8
50/54	.0	.0	.6	.6	1.8	3.6	5.3	3.0	25	14.8
45/49	.0	.0	.0	.0	3.3	14.8	20.1	17.2	97	57.4
40/44	.0	.0	.0	.6	1.8	3.3	10.1	6.5	41	24.3
35/39	.0	.0	.0	.0	.0	.0	.6	.6	2	1.2
TOTAL	0	0	2	2	14	40	82	47	169	100.0
PCT	.0	.0	1.2	1.2	9.5	23.7	36.7	27.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0
55/59	.0	.0	.0	.0	.6	.0	.6	.6	.0	.0
50/54	3.1	.9	.4	.0	1.0	3.1	2.1	4.1	.0	.0
45/49	17.2	3.3	3.7	.4	2.8	8.7	9.8	11.4	.0	.0
40/44	2.7	.9	1.5	2.1	4.1	8.4	3.1	1.5	.0	.0
35/39	.0	.0	.3	.3	.3	.3	.0	.0	.0	.0
TOTAL	22.9	7.2	5.9	2.8	8.9	18.5	16.0	17.8	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	61	57	52	46	40	39	27	45.6	284
0600	57	54	51	46	39	37	37	45.5	163
1200	64	60	54	47	41	37	37	47.8	472
1800	64	59	55	48	42	41	41	48.3	162
TOT	64	59	54	47	41	39	37	47.0	1081

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	2.3	4.8	20.5	40.9	29.5	83	46		
0600	.0	.0	10.5	23.7	26.5	39.3	84	38		
1200	.0	2.2	13.0	26.1	34.8	23.9	81	46		
1800	.0	4.8	7.1	23.8	43.2	19.0	81	42		
TOT	0	4	16	40	63	47	82	170		

OCTOBER

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1968-1973

APEA 0015 PUERTO RISEADO
47.55 62.24

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	% FOG	% FOG
11/13	.0	.0	.0	.0	.7	1	.0	.7
9/10	.0	.0	.0	.0	.7	1	.0	.7
7/8	.0	.0	.0	1.5	.0	2	.0	1.5
6	.0	.0	.7	2.9	.0	5	.7	2.9
5	.0	.0	2.2	2.2	.0	6	.0	4.4
4	.0	.0	3.6	5.1	.0	12	.0	8.8
3	.0	.7	6.6	3.6	.0	15	.0	10.9
2	.0	1.5	9.5	.7	.0	16	1.5	10.2
1	.0	2.9	10.9	1.5	.0	21	1.5	13.9
0	.0	7.9	8.8	.0	.0	22	2.2	13.9
-1	.0	4.4	2.9	.0	.0	10	2.2	5.1
-2	.7	5.8	2.2	.0	.0	12	1.5	7.3
-3	1.5	3.6	.7	.7	.0	9	.7	5.8
-4	.0	2.2	.7	.0	.0	4	.0	2.9
-7/-8	.0	.0	.7	.0	.0	1	.0	.7
TOTAL	3	39	68	25	2	137	14	123
PCT	2.2	28.5	49.6	18.2	1.5	100.0	10.2	89.8

PERIOD: (OVER-ALL) 1968-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	NE						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.0	1.7	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.7	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	2.5	.0	.0	.0	2.5	.0	1.7	1.7	.0	.0	.0	3.3
5-6	.0	.0	6.7	2.9	.0	.0	9.6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.7	1.7	.5	.0	5.8	.0	.0	.0	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	1.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	10.8	4.8	2.5	.0	21.3	.0	1.7	1.7	1.7	.8	.0	5.8

HGT	SE						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.4
1-2	.0	3.3	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	1.7
7	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	1.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.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	4.6	1.3	.0	.0	.0	5.8	.0	.4	4.2	.0	.0	.0	4.6

PERIOD: (OVER-ALL) 1963-1973

OCTOBER

AREA 0015 PUERTO RISEADO
47.35 63.2M

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.0	1.7	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0		
1-2	.0	.0	1.7	.0	.0	.0	1.7	.0	2.1	.0	.0	.0	.0	2.1		
3-4	.0	.0	7.9	.0	.0	.0	2.9	.0	.0	6.7	.0	.0	.0	6.7		
5-6	.0	.0	1.3	1.7	.0	.0	2.9	.0	.0	.4	1.7	.0	.0	2.1		
7	.0	.0	1.7	.0	1.3	.0	2.9	.0	.0	.0	.0	.0	.0	.8		
8-9	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	.0	1.7	2.1	.0	3.8		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	1.7		
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	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	1.7	9.2	1.7	1.3	.0	13.8	.0	2.1	7.1	3.0	2.9	.0	17.1		

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1-2	.0	2.9	1.7	.0	.0	.0	4.2	.0	3.8	.0	.0	.0	.0	3.8			
3-4	.0	.0	3.3	1.7	.0	.0	5.0	.0	.0	4.2	.0	.0	.0	4.2			
5-6	.0	.0	7.9	.0	.0	.0	2.9	.0	1.7	3.4	.4	1.7	.0	9.2			
7	.0	.0	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0			
8-9	.0	.0	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0			
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
TOT PCT	.0	2.9	7.9	1.7	2.5	.0	14.6	.0	3.4	9.6	.4	1.7	.0	17.1 100.0			

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	3.0	.0	.0	.0	.0	3.0	60
1-2	.0	13.3	3.3	.0	.0	.0	16.7	
3-4	.0	.7	21.7	1.7	.0	.0	23.0	
5-6	.0	.7	18.3	6.7	1.7	.0	28.3	
7	.0	.0	3.0	1.7	6.7	.0	13.3	
8-9	.0	.0	3.3	3.3	3.3	.0	10.0	
10-11	.0	.0	.0	1.7	.0	.0	1.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	21.7	31.7	15.0	11.7	.0	100.0	

PERIOD: (OVER-ALL) 1961-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<1	.0	2.2	13.3	8.9	2.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	4
1-2	.0	.0	9.9	16.7	2.2	12.2	1.1	3.3	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	6
3-4	.0	.0	.0	2.2	4.4	.0	1.1	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	8
7-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	13
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	4
14-15	.0	1.1	2.2	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
TOTAL	.0	3	22	31	9	13	2	3	2.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	90	6
PCT	.0	3.3	24.4	34.4	10.0	16.7	2.2	3.3	2.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1902-1973
(OVER-ALL) 1960-1973

AREA 0015 PUERTO RISEADO
47.93 63.04

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	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 DUST	NO SIG WFA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.6	.0	3.1	.0	84.3
NE	13.6	.0	29.5	.0	.0	.0	.0	43.2	.0	.0	4.5	.0	.0	.0	52.3
E	5.1	.0	17.9	.0	.0	.0	.0	23.1	.0	.0	5.1	.0	.0	.0	71.8
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	3.8	.0	3.8	.0	.0	.0	.0	3.8	9.7	.0	.0	.0	.0	.0	90.3
SW	.0	2.0	.0	.7	.0	.0	.0	2.0	1.0	.0	.0	.0	.0	.0	97.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	1.4	.5	2.8	.0	.0	.0	.0	4.1	.9	.0	2.3	.0	.3	.0	92.2
TOT OBS:	218														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	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 DUST	NO SIG WFA
0000	1.3	.0	4.6	.0	.0	.0	.0	6.2	.0	.0	.0	.0	.0	.0	93.8
0600	.0	.0	2.1	.0	.0	.0	.0	2.1	.0	.0	2.1	.0	.0	.0	95.8
1200	1.7	1.7	3.3	.0	.0	.0	.0	3.0	.0	.0	3.0	.0	.0	.0	90.0
1800	2.1	.0	.0	.0	.0	.0	.0	2.1	4.2	.0	2.1	.0	2.1	.0	89.6
TOT PCT	1.4	.3	2.7	.0	.0	.0	.0	4.1	.9	.0	2.3	.0	.3	.0	92.3
TOT OBS:	221														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.9	4.9	4.9	1.3	.1	.0		12.0	12.9	12.6	16.2	17.1	13.0	9.8	9.9	14.5	10.3
NE	.6	2.2	1.3	.2	.0	.0		4.4	9.6	6.6	7.5	7.9	4.6	3.3	2.3	.0	3.6
E	.3	1.6	.5	.0	.0	.0		2.3	9.1	3.3	2.0	3.7	.8	2.1	2.1	2.6	4.1
SE	.4	1.1	.3	.3	.0	.0		2.3	10.1	3.3	1.7	.7	1.8	1.8	2.4	3.9	2.1
S	.3	3.4	3.4	1.7	.4	.2		9.8	13.9	10.1	8.5	14.3	9.4	9.3	9.7	12.3	10.3
SW	1.1	6.0	7.9	4.4	1.8	.6		21.9	17.8	14.7	18.4	13.0	23.0	23.6	24.0	27.4	24.9
W	.9	7.5	11.1	2.9	1.3	.3		23.9	13.3	16.1	24.0	14.3	26.0	27.7	29.9	10.5	20.0
NW	1.0	6.4	8.8	3.6	.3	.0		20.1	14.3	23.1	20.3	19.3	18.9	17.9	17.3	21.1	22.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1							3.1	.0	3.7	1.8	3.7	2.8	4.1	1.9	3.3	2.1
TOT OBS	130	482	371	214	39	17	1473		14.3	227	201	33	196	222	339	38	193
TOT PCT	6.8	32.7	38.6	14.3	4.0	1.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	03	12	18
N	2.3	6.0	3.0	.3	.0		12.0	12.9	14.4	13.6	9.9	11.2
NE	1.7	2.1	.6	.0	.0		4.4	9.6	7.0	3.1	2.9	3.0
E	.7	1.6	.2	.0	.0		2.3	9.1	2.8	1.3	2.1	3.9
SE	.9	.8	.3	.0	.0		2.3	10.1	2.6	1.6	2.2	2.7
S	1.4	4.2	2.7	1.1	.3		9.8	13.9	9.3	10.2	9.6	10.6
SW	3.1	8.7	3.3	3.4	1.2		21.9	17.8	17.7	21.8	23.8	23.3
W	3.3	11.4	6.6	1.6	.7		23.9	13.3	19.4	24.2	29.1	18.3
NW	3.0	9.2	6.3	1.4	.0		20.1	14.3	22.8	18.9	17.7	22.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.1						3.1	.0	3.7	3.0	2.8	2.6
TOT OBS	269	631	379	120	34	1473		14.3	428	231	381	233
TOT PCT	19.6	44.2	23.7	8.1	2.3		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1902-1973
(OVER-ALL) 1860-1973

AREA 0015 PUERTO DESEADO
47.98 63.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	3.7	6.3	33.9	39.3	17.1	3.3	1.2	13.5	100.0	420
0600	3.0	6.9	31.6	39.0	14.7	3.5	1.3	14.5	100.0	231
1200	2.8	4.1	31.3	37.9	17.4	5.3	1.2	13.6	100.0	581
1800	2.6	7.3	35.7	39.9	11.6	2.6	.9	13.4	100.0	233
TOT	45	85	482	571	214	39	17	14.5		1473
PCT	3.1	5.8	32.7	38.8	14.5	4.0	1.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	.2	.0	3.2	1.4		6.6
E	.0	.8	.6	.6		5.8
SE	1.0	.2	.0	.8		3.9
S	3.0	1.2	4.8	3.0		4.8
SW	11.2	2.8	6.0	3.8		3.5
W	6.0	3.0	2.8	2.8		3.7
NW	5.4	5.6	4.8	4.2		4.4
VAR	.0	.0	.0	.0		.0
CALM	1.6	.0	1.6	2.8	124	4.6
TOT OBS	41	20	36	27	124	4.3
TOT PCT	33.1	16.1	29.0	21.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <4/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <4/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.8	2.8	.6	.7	.0	.0	.0	11.3	
NE	.0	.0	.0	.0	1.8	.0	1.6	.0	.0	.0	1.8	
E	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	1.6	
SE	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	1.2	
S	.0	.0	.0	.8	1.8	2.4	.4	.0	.0	.0	6.7	
SW	.0	.0	.0	.8	2.2	1.0	1.4	.0	.0	1.6	16.9	
W	.0	.0	.0	.0	2.4	1.4	.6	.0	.0	.0	10.3	
NW	.0	.0	.0	.4	5.8	.0	.0	.0	.0	.0	13.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.8	.8	.0	.0	.0	.0	2.4	
TOT OBS	0	0	3	17	15	4	0	1	2	81	124	
TOT PCT	.0	.0	.0	2.4	13.7	12.1	4.0	.0	.8	1.6	65.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
>4000	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
>3500	5.7	6.6	6.6	6.6	6.6	6.6	6.6	6.6
>3000	17.2	18.0	18.0	18.0	18.0	18.0	18.0	18.0
>2500	25.4	30.3	31.1	31.1	31.1	31.1	31.1	31.1
>2000	27.0	32.0	33.6	33.6	33.6	33.6	33.6	33.6
>1500	27.0	32.0	33.6	33.6	33.6	33.6	33.6	33.6
>1000	27.0	32.0	33.6	33.6	33.6	33.6	33.6	33.6
>500	27.0	32.0	33.6	33.6	33.6	33.6	33.6	33.6
>150	27.0	32.0	33.6	33.6	33.6	33.6	33.6	33.6
>0	27.0	32.0	33.6	33.6	33.6	33.6	33.6	33.6
TOTAL	33	39	41	41	41	41	41	41

TOTAL NUMBER OF OBS: 122 PCT FREQ NH <5/8: 66.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS
30.4	12.7	7.5	2.2	11.9	6.7	4.9	6.7	17.2	134

NOVEMBER

PERIOD: (PRIMARY) 1902-1973
(OVER-ALL) 1860-1973

AREA 0015 PUERTO RISEADO
47.93 63.04

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	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4
	TOT %	1.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.9
	TOT %	.5	.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	1.4
2<5	PCP	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.2	.5	.8	.8	2.4	.9	.0	.0	.0	.0	9.1
	TOT %	.0	.2	.7	.5	.8	2.9	.9	.0	.0	.0	.0	6.0
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	5.9	1.0	2.1	1.2	3.7	4.6	4.8	3.0	.0	1.4	27.4	
	TOT %	5.9	2.0	2.1	1.2	3.7	4.6	4.8	3.0	.0	1.4	28.4	
10+	PCP	.0	.1	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0
	NO PCP	6.9	1.4	.9	.7	7.1	15.4	12.9	13.1	.0	2.3	60.0	
	TOT %	6.9	1.5	1.3	.7	7.6	15.4	12.9	13.1	.0	2.3	61.0	
TOT OBS													217
TOT PCT													14.4 5.1 4.5 2.3 12.1 22.9 18.7 16.1 .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
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	1.2	.4	.0	.0	.2	.2	.0	.0	.0	.0	.0	2.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	1.2	.4	.0	.0	.2	.2	.0	.0	.0	.0	.0	2.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.4	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	1.6
	11-21	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.4	.8	.4	.0	.0	.0	.0	.4	.0	.0	.0	2.0
2<5	0-3	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4
	4-10	.0	.2	.8	.0	.0	.8	.0	.0	.0	.0	.0	1.8
	11-21	.0	.0	.0	.0	.4	.4	.8	.0	.0	.0	.0	1.6
	22+	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	1.6
	TOT %	.0	.2	.8	.4	.7	2.5	.8	.0	.0	.0	.0	5.2
5<10	0-3	.4	.8	.0	.2	.2	.0	.0	.4	.0	1.2	.0	3.2
	4-10	2.2	1.0	1.8	.8	.4	.6	1.4	.6	.0	.0	.0	8.9
	11-21	2.7	.9	.4	.0	2.3	2.7	2.6	1.6	.0	.0	.0	13.3
	22+	.4	.0	.0	.0	1.1	.7	.2	.0	.0	.0	.0	2.4
	TOT %	5.7	2.7	2.2	1.0	4.0	4.0	4.2	2.6	.0	1.2	.0	27.0
10+	0-3	.8	.0	.0	.0	.5	.3	.0	.4	.0	2.0	.0	4.0
	4-10	2.7	.9	2.1	.4	2.7	3.8	3.3	3.3	.0	.0	.0	23.4
	11-21	3.6	.8	.4	.6	4.8	8.1	7.3	6.0	.0	.0	.0	31.9
	22+	.3	.0	.0	.0	.4	1.3	.7	.9	.0	.0	.0	3.6
	TOT %	7.5	1.7	2.5	1.0	8.5	13.5	11.5	12.7	.0	2.0	.0	62.9
TOT OBS													248
TOT PCT													14.8 5.8 5.7 2.4 13.4 22.3 18.5 13.7 .0 3.2 100.0

PERIOD: (PRIMARY) 1902-1973
(OVER-ALL) 1850-1973

NOVEMBER

AREA 0013 PUERTO RISEADO
47.58 63.0M

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/MH >4/8) AND OCCURRENCE OF MH <5/8 BY HOUR

MOHR (GMT)	000	150	300	400	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	3.1	12.5	21.9	6.3	.0	.0	.0	43.8	56.3	32
06009	.0	.0	.0	.0	7.1	10.7	7.1	.0	.0	.0	25.0	75.0	28
12015	.0	.0	.0	5.9	14.7	2.9	2.9	.0	2.9	2.9	32.4	67.6	34
18021	.0	.0	.0	.0	16.7	11.1	.0	.0	.0	2.8	30.6	69.4	36
TOT	0	0	0	9	17	15	8	0	1	2	43	87	130
PCT	.0	.0	.0	2.3	13.1	11.5	3.8	.0	.8	1.5	33.1	66.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

MOHR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	1.4	.0	1.4	9.4	39.8	58.1	74
06009	1.9	.0	1.9	9.4	26.4	60.4	53
12015	2.8	.0	2.8	2.8	29.2	62.5	72
18021	1.9	.0	1.9	3.8	21.2	71.2	82
TOT	8	0	5	13	71	197	281
PCT	2.0	.0	2.0	3.2	28.3	62.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET/MH >4/8) BY HOUR

MOHR (GMT)	<180 <500	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	3.3	43.3	53.3
06009	.0	.0	3.8	23.1	73.1
12015	.0	.0	6.1	27.3	66.7
18021	.0	.0	3.2	47.3	69.7
TOT	0	0	8	37	80
PCT	.0	.0	4.1	30.3	69.6

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-24	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
69/69	.0	.0	.0	.4	.6	.0	.0	.0	2	1.2
80/64	.0	.0	.0	.0	1.2	.6	.0	.0	3	1.9
53/59	.0	.0	.0	1.2	5.6	4.2	2.3	.0	25	15.4
50/54	.0	.0	.6	2.9	8.0	10.5	18.9	2.8	69	42.6
43/49	.0	.0	.0	2.9	4.3	6.8	13.0	4.9	31	31.8
40/44	.0	.0	.0	.0	2.3	2.3	2.3	.0	12	7.4
TOTAL	0	0	1	11	32	43	39	16	162	100.0
PCT	.0	.0	.6	6.8	19.8	26.5	36.4	9.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

M	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.0	.0	.0	.0	.0	.6	.3	.0	.0
.6	.0	.0	.0	.0	.0	1.2	.0	.0	.0
4.0	.0	.6	.0	.6	1.3	3.3	3.1	.0	.0
8.6	2.0	1.1	.0	2.3	6.8	9.6	10.3	.0	1.2
3.2	1.2	.0	.0	2.8	13.9	3.4	4.9	.0	.0
.0	.0	.0	.0	3.1	2.3	1.9	.0	.0	.0
16.8	3.2	1.7	.6	8.8	24.7	22.2	20.7	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

MOHR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	66	58	55	49	43	42	38	48.9	419
06009	61	57	54	48	43	41	40	48.3	231
12015	67	61	57	50	44	42	40	50.6	361
18021	66	61	57	51	48	43	40	51.3	213
TOT	67	60	57	50	44	41	38	49.9	1426

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

MOHR (GMT)	0-29	30-39	40-49	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	8.3	17.0	19.1	42.6	12.8	78	47
06009	.0	2.9	17.6	32.4	29.4	17.6	79	34
12015	.0	11.4	16.2	22.7	40.9	6.8	76	44
18021	.0	5.1	25.6	33.3	33.3	2.6	74	39
TOT	0	12	32	43	61	16	77	164

NOVEMBER

PERIOD: (PRIMARY) 1902-1973
(OVER-ALL) 1860-1973

AREA 0015 PUERTO RISEADO
47.55 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	41 44	45 48	49 52	53 56	57 60	61 64	TOT	% FOG	NO FOG
11/13	.0	.0	.0	.0	.5	.0	3	.0	1.3
9/10	.0	.0	.0	2.3	1.4	.0	8	.0	3.7
7/8	.0	.0	.9	3.7	.9	.0	12	.0	5.6
6	.0	.0	2.3	1.9	.0	.0	9	.0	4.2
5	.0	.5	1.9	.0	.0	.0	5	.0	2.3
4	.3	.5	7.9	3.3	.9	.0	26	.0	12.1
3	.0	2.3	3.1	2.8	.5	.0	23	.0	10.7
2	.0	3.6	6.0	1.4	.9	.0	30	.0	14.0
1	.8	6.0	3.7	.9	.0	.0	24	.9	10.2
0	1.4	7.0	3.7	1.4	.0	.0	29	.5	13.0
-1	2.3	2.8	3.7	1.4	.0	.0	22	.0	10.2
-2	1.9	1.9	1.4	.0	.0	.0	11	.0	5.1
-3	.0	3.3	.0	.0	.0	.0	7	.5	2.8
-4	.9	.0	.0	.0	.0	.0	2	.5	.5
-5	.0	.5	.0	.0	.0	.0	1	.0	.5
-6	.0	.0	.3	.0	.0	.0	1	.0	.5
-7/-8	.5	.0	.5	.0	.0	.0	2	.0	.9
TOTAL	17	65	81	39	11	2	215	5	210
PCT	7.9	30.2	37.7	18.1	5.1	.9	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1903-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	1.6	1.6	1.6	.0	.0	.0	4.8	.0	3.2	.0	.0	.0	.0	3.2
3-4	.0	1.6	2.4	.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	1.6	6.0	.0	.0	.0	7.9	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.8	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	3.2	1.6	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.2	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	4.8	13.9	2.8	.0	.0	23.0	.0	3.2	.0	.0	.0	.0	3.2

WGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.6	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.6	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1973

NOVEMBER

AREA 0015 PUERTO DESEADO
47.35 63.04

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	7.9	.4	.0	.0	.0	.0	8.3	
3-4	.0	1.8	3.2	.0	.0	.0	1.8	.0	2.0	6.3	.0	.0	.0	.0	8.3	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	1.8	.0	.0	.0	6.3	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	1.8	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	1.8	.0	.0	.0	3.2	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	1.8	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	1.8	.0	.0	.0	1.8	.0	9.9	13.1	6.3	.0	.0	.0	29.4	

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.4	.0	.0	.0	.0	.4		
1-2	.0	1.2	1.2	.0	.0	.0	2.4	.0	8.3	.0	.0	.0	.0	.0	8.3		
3-4	.0	1.2	3.2	.0	.0	.0	4.4	.0	1.8	2.4	.0	.0	.0	.0	4.0		
5-6	.0	1.2	6.0	1.8	.0	.0	8.7	.0	.4	5.8	.0	.0	.0	.0	6.0		
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4		
8-9	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0	3.2		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	3.6	11.3	1.8	.0	.0	16.7	.0	10.3	8.7	3.6	.0	.0	22.6	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	.0	1.8	.0	.0	.0	1.8	
1-2	1.8	22.2	3.2	.0	.0	.0	27.0	
3-4	.0	7.9	13.9	.0	.0	.0	23.8	
5-6	.0	3.2	22.2	3.8	.0	.0	28.0	
7	.0	.0	3.2	1.8	.0	.0	4.8	
8-9	.0	.0	4.8	3.2	.0	.0	7.9	
10-11	.0	.0	.0	4.8	.0	.0	4.8	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.8	.0	.0	1.8	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.8	33.3	50.8	14.3	.0	.0	100.0	69

PERIOD: (OVER-ALL) 1991-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<1	.0	16.3	16.3	8.8	3.8	3.8	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	4
1-2	.0	.0	3.8	8.8	7.3	3.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	6
3-4	.0	.0	2.5	3.0	1.3	2.3	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	6
5-6	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
7-9	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
10-11	.0	.0	.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	0	0
13-19	.0	.0	2.3	.0	.0	1.3	1.3	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8
INDEX	.0	13	21	18	16	10	5	1	2	0	0	0	0	0	0	0	0	0	0	0	80	5
TOTAL PCT	.0	16.3	26.3	22.5	12.3	12.3	6.3	1.3	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1864-1973

AREA 0015 PUERTO RISEAD
47.85 63.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	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 DUST	NO SIG WEA
N	1.4	.0	.0	.0	.0	.0	.0	1.4	2.1	.0	3.5	.0	.0	.0	92.1
NE	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	9.1	.0	.0	88.6
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	98.4
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	.0	.0	.0	98.3
NW	1.9	.0	.0	.0	.0	.0	.0	1.9	.0	.0	16.3	.0	.0	.0	81.7
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	.7	.0	.0	.0	.0	.0	.0	.7	1.4	.0	4.1	.7	.0	.0	93.2
TOT OBS	148														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	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 DUST	NO SIG WEA
0000Z	2.6	.0	.0	.0	.0	.0	.0	2.6	.0	.0	2.6	.0	.0	.0	94.7
0600Z	.0	.0	.0	.0	.0	.0	.0	.0	9.0	.0	3.0	.0	.0	.0	93.9
1200Z	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	6.0	2.0	.0	.0	90.0
1800Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	97.0
TOT PCT	.6	.0	.0	.0	.0	.0	.0	.6	1.5	.0	3.9	.6	.0	.0	93.5
TOT OBS	194														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.4	3.0	5.6	1.7	.2	.0		13.2	13.6	15.4	12.2	16.0	14.2	14.0	10.6	23.7	12.6
NE	.4	2.9	3.7	.5	.0	.0		6.8	11.8	9.5	6.6	10.0	6.0	8.1	4.7	8.7	7.5
E	.5	1.9	.7	.2	.0	.0		3.1	9.7	4.4	3.3	3.0	3.3	3.4	1.9	.0	2.4
SE	.9	1.5	.9	.2	.2	.2		3.9	12.3	3.2	4.4	1.0	4.7	7.3	2.7	2.2	3.9
S	.8	4.9	3.6	1.4	1.2	.1		11.4	15.4	13.5	10.5	17.0	9.4	12.6	9.4	23.9	13.2
SW	1.5	5.4	8.2	3.7	4.2	.8		23.7	20.0	27.7	18.9	23.0	24.9	24.2	26.4	8.7	24.9
W	.8	7.0	7.4	3.2	1.0	.0		19.3	14.9	15.0	20.6	11.0	19.3	20.1	24.8	13.0	12.0
NW	.2	6.8	7.0	2.3	.4	.0		16.8	14.0	15.8	19.7	17.0	15.4	12.2	17.6	9.8	20.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7	.0	.0	.0	.0	.0		1.7	.0	.5	1.9	.0	2.3	.5	1.9	.0	3.0
TOT OBS	97	464	480	174	94	15	1324		15.1	182	160	23	159	194	414	23	167
TOT PCT	7.3	33.0	36.3	13.1	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 DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-21	22-30	31+				03	06	09	12	15	21
N	2.4	6.1	3.9	.7	.0		13.2	13.6	13.9	14.7	11.8	15.1	
NE	1.6	3.3	1.4	.2	.0		6.8	11.8	8.1	6.5	3.8	7.6	
E	1.0	1.6	.7	.0	.0		3.1	9.7	4.8	3.4	2.4	2.1	
SE	1.4	1.6	.5	.2	.2		3.9	12.3	4.8	4.2	3.2	3.7	
S	2.8	4.2	2.8	1.1	.9		11.4	15.4	12.1	10.5	10.4	14.5	
SW	3.7	7.8	5.6	4.1	2.3		23.7	20.0	19.9	24.6	23.7	22.9	
W	3.4	8.7	5.3	1.7	.4		19.3	14.9	17.6	18.3	23.3	12.1	
NW	2.9	8.0	4.9	.9	.2		16.8	14.0	17.6	15.6	13.9	19.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.7	.0	.0	.0	.0		1.7	.0	1.2	2.2	1.5	2.6	
TOT OBS	276	590	328	120	50	1324		15.1	342	194	408	190	
TOT PCT	20.8	41.3	24.8	9.1	3.8	100.0			100.0	100.0	100.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1864-1973

AREA 0015 PUERTO RISEADO
47.35 63.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)							MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+				
0000Z	1.2	7.9	40.9	31.3	13.2	4.7	.9	13.9	100.0	342	
0600Z	2.2	3.8	36.4	35.3	13.0	8.7	.3	13.5	100.0	184	
1200Z	1.3	5.8	29.1	40.6	13.3	7.9	1.6	13.9	100.0	608	
1800Z	2.6	3.2	42.1	32.1	12.1	7.4	.3	14.4	100.0	190	
TOT	22	78	464	430	174	94	15	13.1		1324	
PCT	1.7	5.7	35.0	36.3	13.1	7.1	1.1		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
NE	.0	4.2	1.3	3.4		5.8
E	.0	2.1	.0	.0		3.3
SE	.0	.0	.0	.0		3.0
S	3.6	7.1	6.8	3.0		4.6
SW	3.4	1.3	7.7	1.8		4.5
W	6.3	.9	3.8	1.2		3.8
NW	6.3	2.7	4.2	1.8		3.3
CALM	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
TOT OBS	24	21	28	11	84	4.1
TOT PCT	28.6	25.0	33.3	13.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.9	.0	.0	1.2	.9	1.8	.0	.0	.0	.0	13.5	
NE	1.2	.0	.0	1.2	.0	1.5	.0	.0	.0	.0	5.4	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
S	.0	.0	.0	2.4	1.8	1.2	.0	.0	.0	.0	13.2	
SW	.0	.0	.0	1.5	3.0	.0	.0	.0	.0	.0	11.9	
W	.0	.0	.0	2.1	1.2	.0	.0	.0	.0	.0	12.2	
NW	.3	.0	.0	1.5	1.3	.0	1.2	.0	.0	.0	10.7	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	2	0	0	7	3	0	1	0	0	0	84	
TOT PCT	2.4	.0	.0	8.3	8.3	0.0	.0	1.2	.0	.0	73.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)								
	>10	>8	>6	>4	>3	>2	>1/2	>1/4	>0
>4800	.0	.0	.0	.0	.0	.0	.0	.0	.0
>3000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>2000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>1000	6.9	6.9	6.9	8.0	8.0	8.0	8.0	8.0	8.0
>600	13.8	14.9	14.9	16.1	16.1	16.1	16.1	16.1	16.1
>300	20.7	23.0	23.0	24.1	24.1	24.1	24.1	24.1	24.1
>150	20.7	23.0	23.0	24.1	24.1	24.1	24.1	24.1	24.1
>0	20.7	23.0	23.0	24.1	24.1	24.1	24.1	24.1	24.1
TOTAL	18	20	21	22	23	23	23	23	23

TOTAL NUMBER OF OBS: 87

PCT FREQ NH <5/8: 73.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
23.0	12.3	10.4	12.3	9.4	9.4	6.3	6.3	7.3	1.0	96

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1864-1973

DECEMBER

APEA 0013 PUERTO RISEADO
47.85 62.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.3	.7	.0	.0	.0	.0	.0	.3	.0	.0	.0	1.4
	TOT %	.3	.7	.0	.0	.0	.0	.0	.3	.0	.0	.0	1.4
1<2	PCP	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.7
	NO PCP	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
	TOT %	1.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	1.4
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	2.4	.0	.0	.0	.3	2.4	.0	.5	.0	.0	.0	6.1
	TOT %	2.4	.0	.0	.0	.3	2.4	.0	.5	.0	.0	.0	6.1
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	3.2	1.5	.0	.0	1.0	3.7	1.0	5.7	.0	.0	.0	16.2
	TOT %	3.2	1.5	.0	.0	1.0	3.7	1.0	5.7	.0	.0	.0	16.2
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	16.9	3.2	1.2	.7	17.6	14.7	8.1	10.6	.0	.0	.0	79.0
	TOT %	16.9	3.2	1.2	.7	17.6	14.7	8.1	10.6	.0	.0	.0	79.0
TOT OBS													148
TOT PCT		24.3	7.4	1.2	.7	16.9	20.8	9.1	17.6	.0	.0	.0	100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (MM)	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	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.6
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	1.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.8	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	1.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.8	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	1.1
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.3	1.4	.0	.0	.0	.0	1.7
	11-21	1.8	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	2.8
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	2.4	.0	.0	.0	.0	.3	2.0	.4	.0	.0	.0	5.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	1.7
	11-21	2.1	1.3	.0	.0	.3	2.5	.4	1.1	.0	.0	.0	7.8
	22+	.0	.0	.0	.0	.0	.0	.3	2.0	.0	.0	.0	3.4
	TOT %	2.7	1.3	.0	.0	.3	3.1	.8	4.7	.0	.0	.0	13.4
10+	0-3	.0	.0	.0	.1	2.0	.4	.3	.0	.0	.0	.0	3.4
	4-10	9.1	2.3	1.3	.4	6.1	7.5	4.1	7.8	.0	.0	.0	39.1
	11-21	4.1	2.4	.0	.0	3.7	6.3	3.9	3.4	.0	.0	.0	29.7
	22+	1.3	.0	.0	.0	2.4	4.3	2.1	.8	.0	.0	.0	11.2
	TOT %	15.2	4.9	1.5	.6	16.2	18.6	10.3	12.0	.0	.0	.0	79.3
TOT OBS													179
TOT PCT		21.4	6.7	1.5	.6	17.3	23.6	11.2	17.7	.0	.0	.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1864-1973

APEA 0015 PUERTO RISEADO
47.55 63.04

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET; NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	0/0	1/0	3/0	5/0	10/0	20/0	30/0	50/0	60/0	80/0+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00203	.0	.0	.0	5.6	5.6	11.1	.0	5.6	.0	.0	27.8	72.2	18
06209	.0	.0	.0	9.3	15.8	.0	.0	.0	.0	.0	21.1	78.9	19
12215	6.7	.0	.0	6.7	10.7	6.7	.0	.0	.0	.0	30.0	70.0	30
18221	.0	.0	.0	13.0	.0	6.7	.0	.0	.0	.0	21.7	78.3	23
TOT	2	0	0	7	7	6	0	1	0	0	23	67	90
PCT	2.2	.0	.0	7.8	7.8	6.7	.0	1.1	.0	.0	25.6	74.4	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
00203	.0	.0	4.3	4.3	10.9	80.4	46
06209	.0	2.6	.0	7.7	15.4	74.4	39
12215	.0	1.7	3.3	6.7	16.7	71.7	60
18221	.0	.0	.0	.0	7.5	92.5	40
TOT	0	2	4	9	24	146	185
PCT	.0	1.1	2.2	4.9	13.0	78.9	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 <50FT	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00203	.0	.0	11.1	16.7	72.2	18
06209	.0	.0	9.3	17.6	76.3	17
12215	6.7	6.7	13.3	16.7	70.0	30
18221	.0	.0	13.0	9.1	77.3	22
TOT	2	2	10	13	64	87
PCT	2.3	2.3	11.3	14.9	73.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.6	2.3	1.8	.0	8	4.9
55/59	.0	.0	.0	1.8	1.8	6.7	11.0	.0	39	21.3
50/54	.0	.0	.0	3.7	9.2	11.0	16.6	12.3	66	52.8
45/49	.0	.0	.0	2.5	4.3	.6	10.4	3.1	34	20.9
TOTAL	0	0	0	13	26	34	65	25	169	100.0
PCT	.0	.0	.0	8.0	16.0	20.9	39.9	15.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.5	.0	.0	.0	1.2	.6	1.1	.5	.0	.0	.0
7.2	1.2	.0	.0	1.7	1.7	3.6	3.8	.0	.0	.0
10.4	4.1	1.1	.3	10.9	10.9	2.6	12.3	.0	.0	.0
4.3	1.4	.0	.0	3.4	6.9	.6	2.3	.0	.0	.0
TOTAL	23.3	6.7	1.1	.5	19.2	20.1	10.1	18.9	.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
00203	64	61	59	52	46	44	43	51.9	397
06209	69	59	57	51	45	43	42	51.1	184
12215	70	64	61	54	47	44	42	53.9	587
18221	66	65	61	54	47	43	42	51.9	171
TOT	70	64	60	53	47	44	42	53.0	1279

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00203	.0	5.0	14.0	20.0	52.3	7.3	7.9	40		40
06209	.0	5.7	14.3	20.0	37.1	22.9	8.1	35		35
12215	.0	7.1	17.9	19.6	37.5	17.9	7.8	56		56
18221	.0	13.8	13.2	26.3	34.2	10.3	7.6	38		38
TOT	0	14	26	36	66	25	7.9	169		169

DECEMBER

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1864-1973

AREA 0015 PUERTO RISEADO
47.95 63.04

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.7	1	.0	.7
11/13	.0	.0	.0	.0	.7	1	.0	.7
9/10	.0	.0	.0	1.3	.7	2	.0	2.0
7/8	.0	.0	2.0	2.4	1.3	5	.0	6.0
6	.0	.7	2.0	1.3	.0	6	.0	4.0
5	.0	.0	3.3	2.0	.0	8	.0	5.3
4	.0	4.0	2.6	2.0	.0	13	.7	7.9
3	.7	3.3	0.0	2.0	.0	10	2.0	9.9
2	.0	4.0	4.6	.7	.0	14	.7	8.6
1	.7	14.6	2.6	.7	.0	20	.0	18.5
0	3.3	9.9	4.6	.0	.0	27	.0	17.9
-1	3.3	2.6	1.3	.0	.0	11	.0	7.3
-2	2.6	1.3	1.3	.0	.0	8	.7	4.6
-3	.0	.7	.0	.0	.0	1	.0	.7
-5	1.3	.7	.0	.0	.0	3	.0	2.0
TOTAL	18	63	46	19	9	151	6	145
PCT	11.9	41.7	30.3	12.6	3.3	100.0	4.0	96.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N					PCT	NE					PCT	
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47		
01	.0	4.3	1.7	.0	.0	0.3	.0	.8	.0	.0	.0	.0	.6
1-2	.0	2.3	2.3	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	4.3	.0	.0	4.5	.0	2.3	.0	.0	.0	.0	2.3
4-6	.0	.0	2.3	.0	.0	2.3	.0	2.3	2.3	.0	.0	.0	4.5
7	.0	.0	1.7	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
8-9	.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
12	.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
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.8	12.5	.0	.0	14.3	.0	9.1	2.3	.0	.0	.0	7.4

HGT	E					PCT	SE					PCT	
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47		
01	.0	1.7	.0	.0	.0	1.7	.0	.8	.0	.0	.0	.0	.6
1-2	.0	2.3	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.8
7	.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
10-11	.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
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.0	.0	.0	.0	4.0	.0	1.1	.0	.0	.0	.0	1.1

PERIOD: (OVER-ALL) 1963-1973

DECEMBER

AREA 0013 PUERTO RISEADO
47.95 63.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	2.3	1.7	.0	.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.3	6.8	.0	.0	.0	9.1	.0	.0	2.3	.0	.0	.0	2.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.6	.0	.0	.0	2.3
5-6	.0	1.7	2.3	.0	.0	.0	4.0	.0	.0	.0	2.3	.0	.0	2.3
7	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	4.3	2.3	.0	.0	6.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	2.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	2.3	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	2.3
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	2.3	9.7	11.4	2.3	.0	.0	21.6	.0	2.3	7.4	4.3	4.3	.0	18.8

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.6	.0	.0	.0	.0	2.8
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	6.8	.0	.0	.0	6.8	.0	.0	2.3	2.3	.0	.0	4.3	.0
5-6	.0	.0	2.3	4.3	.0	.0	6.8	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	.0	.0	.0	2.8	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	2.3	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	2.3	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	8.3	4.3	.0	.0	13.1	.0	2.3	5.7	4.3	2.3	.0	14.8	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	2.3	11.4	2.3	.0	.0	.0	15.9	083
1-2	.0	6.8	11.4	.0	.0	.0	18.2	
3-4	.0	4.3	13.6	2.3	.0	.0	20.3	
5-6	.0	4.3	9.1	6.8	.0	.0	20.3	
7	.0	.0	11.4	2.3	.0	.0	13.6	
8-9	.0	.0	.0	2.3	2.3	.0	4.3	
10-11	.0	.0	.0	.0	2.3	.0	2.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	2.3	.0	.0	2.3	
17-19	.0	.0	.0	.0	2.3	.0	2.3	
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	2.3	27.3	47.7	13.9	6.8	.0	100.0	64

PERIOD: (OVER-ALL) 1954-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
4-6	2.6	16.9	20.8	7.8	1.3	1.3	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	3
6-7	.0	.0	9.1	3.9	1.3	3.2	.0	1.3	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	6
8-9	.0	.0	.0	1.3	3.9	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
10-11	.0	.0	.0	.0	.0	1.3	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	11
12-13	.0	.0	1.3	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
3-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDFT	.0	.0	.0	2.6	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
TOTAL	2	18	24	12	3	4	3	3	1.3	0	0	0	0	0	0	0	0	0	0	0	77	5
PCT	2.6	16.9	31.2	13.6	6.9	10.4	3.2	3.9	6.9	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1954-1973

ANNUAL

AREA 0015 PUERTO RISEADO
47.55 63.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.6	.9	.7	.0	.0	.0	.0	4.2	.9	.3	7.9	.0	.5	.0	86.2
NE	4.9	2.4	6.4	.0	2.1	.0	.0	15.7	2.3	.0	3.5	.8	.2	.0	75.5
E	11.6	.9	4.1	.0	.0	.0	.0	16.6	10.6	.0	3.3	.0	.7	.0	68.9
SE	2.3	3.7	1.2	.0	.0	.0	.0	7.2	2.6	.0	1.8	3.6	.7	.0	82.1
S	2.8	4.0	3.7	.0	1.3	.0	1.1	11.9	4.8	.2	2.1	1.9	.0	.0	79.1
SW	1.4	2.2	2.4	.0	1.2	.0	.3	7.0	3.9	.1	1.9	.0	.0	.0	87.0
W	1.4	.7	.2	.0	.1	.0	.3	2.5	.9	.2	3.1	.0	.0	.0	91.3
NW	.9	.3	.9	.0	.0	.0	.0	2.1	.8	.7	8.1	.0	.3	.0	88.0
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	8.3	.0	.0	.0	90.0
TOT PCT	2.4	1.4	1.6	.0	.4	.0	.2	5.8	2.1	.3	3.4	.3	.3	.0	85.7
TOT OBS:	1994														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	2.3	1.2	2.3	.0	.4	.0	.4	6.6	2.4	.3	6.9	.6	.6	.0	82.5
0600	2.5	1.3	2.6	.0	.2	.0	.3	6.9	1.6	1.1	4.1	.0	.0	.0	86.3
1200	2.2	1.4	1.1	.0	.4	.0	.3	3.0	2.1	.2	6.0	.2	.4	.7	86.2
1800	2.5	1.4	.8	.0	.3	.0	.0	4.6	2.2	.0	3.3	.2	.4	.0	87.3
TOT PCT	2.3	1.3	1.6	.0	.4	.0	.2	3.7	2.1	.4	3.6	.2	.4	.0	83.6
TOT OBS:	1975														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT PRPG	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.7	4.1	3.1	2.2	.4	*		12.6	14.8	14.3	13.9	16.3	12.6	12.3	10.9	16.9	11.9
NE	.4	2.1	1.8	.6	.1	*		3.0	12.3	3.4	3.1	3.8	4.3	4.9	3.0	3.3	3.0
E	.4	1.5	1.0	.4	.1	*		3.4	11.3	4.0	3.7	2.9	3.3	3.3	3.0	1.9	3.9
SE	.5	1.9	1.3	.3	.2	*		4.3	12.6	4.7	3.0	4.1	4.4	4.6	4.4	3.9	4.3
S	.7	3.1	3.1	1.9	1.0	.3		9.8	17.3	11.1	9.3	12.0	8.9	9.3	9.3	8.2	10.3
SW	1.0	3.3	6.8	4.1	2.7	1.0		20.8	19.9	18.5	17.9	17.6	21.1	22.1	22.1	20.1	22.9
W	1.0	6.6	8.8	4.1	1.4	.4		22.2	16.4	19.2	22.2	16.9	22.3	22.9	24.8	19.9	20.6
NW	.8	3.7	6.4	3.9	.9	.1		20.0	16.1	21.0	21.4	23.3	20.6	18.7	18.4	22.0	20.3
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	1.6	1.1	2.1	1.6	1.9	.9	1.6
TOT OBS							17432		16.1	2399	2333	333	2347	2616	4478	362	2344
TOT PCT	7.4	30.3	36.4	17.3	6.7	1.9		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT PRPG	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	03	09	15
N	2.2	3.3	3.8	1.0	.1		12.6	14.8	13.9	13.1	11.4	12.8
NE	1.4	2.2	1.2	.2	*		3.0	12.3	3.3	4.7	3.0	3.0
E	1.1	1.4	.7	.2	*		3.4	11.3	3.9	3.2	3.2	3.3
SE	1.4	1.8	1.0	.3	.1		4.3	12.6	4.9	4.3	4.3	4.2
S	1.9	3.5	2.3	1.3	.7		9.8	17.3	10.3	9.2	9.3	10.1
SW	2.9	7.0	5.3	3.3	2.1		20.8	19.9	18.3	20.7	22.1	22.1
W	3.3	9.2	6.6	2.3	.9		22.2	16.4	20.6	21.9	24.1	20.3
NW	2.7	8.3	6.5	2.0	.4		20.0	16.1	21.2	20.9	18.3	20.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	1.7	1.9	1.8	1.3
TOT OBS						17432		16.1	4332	2680	7094	2706
TOT PCT	18.6	38.9	27.6	10.6	4.3		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1961-1973
(OVER-ALL) 1954-1973

ANNUAL

AREA 0015 PUERTO RISEADO
47.55 63.04

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT	TOTAL
				11-21	22-33	34-47	48+			
0000Z	1.7	6.4	31.9	35.9	16.4	5.7	2.0	19.6	100.0	4952
0600Z	1.9	6.5	31.6	35.7	16.1	6.3	1.8	19.7	100.0	2680
1201Z	1.8	5.1	28.2	36.7	18.6	7.5	2.0	16.7	100.0	7094
1802Z	1.5	4.8	31.7	37.0	17.0	6.4	1.6	18.0	100.0	2706
TOT								18.1		17432
PCT	1.8	5.6	30.3	36.4	17.3	6.7	1.9	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NP	0.7	0.9	1.6	1.7		3.7
E	0.3	0.6	0.7	0.6		5.1
SE	0.8	0.2	0.9	1.0		5.5
S	2.1	2.1	3.7	2.5		4.9
SW	6.9	3.9	6.7	3.5		4.3
W	7.2	2.7	5.5	2.9		4.0
NW	6.9	4.8	6.3	3.1		4.0
VAR	0.0	0.0	0.0	0.0		0.0
CALM	0.6	0.1	0.3	0.2		2.1
TOT OBS					1219	4.4
TOT PCT	30.7	17.8	31.3	20.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	0.7	0.0	0.4	0.6	1.8	1.5	0.4	0.1	0.4	0.7	11.5
	0.2	0.1	0.2	0.3	0.8	0.3	0.4	0.3	0.0	0.0	2.3
	0.0	0.0	0.0	0.1	0.3	0.3	0.1	0.0	0.0	0.0	1.2
	0.1	0.0	0.0	0.2	0.6	0.1	0.3	0.0	0.1	0.0	1.3
	0.1	0.7	0.1	1.2	2.0	0.8	0.4	0.1	0.0	0.0	5.3
	0.0	0.1	0.0	1.0	2.8	1.6	0.9	0.2	0.1	0.3	14.0
	0.0	0.0	0.2	0.6	1.6	1.4	0.7	0.4	0.1	0.1	13.2
	0.0	0.0	0.1	0.6	1.3	1.5	0.4	0.3	0.2	0.4	15.9
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.8
TOT PCT	1.2	0.4	1.1	4.8	11.3	7.6	4.2	1.4	0.8	1.5	65.5

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4
>5000	3.3	3.7	3.8	3.8	3.8	3.8	3.8	3.8
>3500	6.0	7.7	7.9	8.1	8.1	8.1	8.1	8.1
>2000	11.1	14.8	15.2	15.3	15.6	15.6	15.6	15.6
>1000	20.3	23.8	26.3	26.9	26.9	26.9	26.9	26.9
>600	23.7	30.3	31.3	31.7	31.8	31.8	31.8	31.8
>300	24.4	31.4	32.3	32.7	32.8	32.8	32.8	32.8
>150	24.5	31.8	32.8	33.2	33.2	33.2	33.2	33.2
>0	24.6	31.9	33.0	33.6	33.6	34.0	34.4	34.5

TOTAL NUMBER OF OBS: 1234

PCT FREQ NH <5/8: 65.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
24.3	13.2	10.0	7.7	9.4	5.3	6.8	8.4	16.0	1.0	1203

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1854-1973

ANNUAL

APEA 0015 PUERTO RISEADO
47.9S 63.0W

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	.0	*	.0	.0	.0	*	*	.0	.0	.0	.1	
	NO PCP	.7	.1	.0	*	.1	*	.1	.5	.0	.1	1.7	
	TOT %	.7	.2	.0	*	.1	.1	.1	.5	.0	.1	1.7	
1/2<1	PCP	.0	.0	.1	.1	.1	.0	*	.0	.0	.0	.3	
	NO PCP	.7	.1	.0	.0	.0	.0	*	.1	.0	.0	.4	
	TOT %	.2	.1	.1	.1	.1	.0	.1	.1	.0	.0	.7	
1<2	PCP	*	.1	*	.0	.0	.1	*	*	.0	.0	.3	
	NO PCP	.2	*	*	*	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.3	.2	*	*	.0	.1	*	.1	.0	.0	.7	
2<5	PCP	.1	*	*	.0	.2	.2	.0	.1	.0	.0	.3	
	NO PCP	.5	*	*	.1	.7	.5	.2	.5	.0	.0	2.0	
	TOT %	.6	.1	.1	.1	.4	.7	.2	.5	.0	.0	2.5	
5<10	PCP	.7	.6	.3	.1	.8	.8	.3	.3	.0	.0	3.9	
	NO PCP	4.6	1.2	1.1	.9	2.3	4.6	3.8	3.5	.0	.2	24.2	
	TOT %	5.3	1.8	1.4	1.0	3.1	5.3	4.1	3.8	.0	.2	28.0	
10+	PCP	.1	*	*	.0	.7	.3	.1	.1	.0	.0	.3	
	NO PCP	12.0	3.0	1.7	1.4	6.6	13.7	12.8	14.3	.0	.7	65.5	
	TOT %	12.1	3.0	1.7	1.4	6.8	14.0	12.8	14.3	.0	.7	66.3	
TOT Obs													1929
TOT PCT													19.1 3.3 2.8 2.6 10.4 20.1 17.4 21.3 .0 1.0 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL Obs
<1/2	0-3	.1	.0	.0	.0	.0	*	*	.2	.0	.1	.4	
	4-10	.4	.1	.0	*	.1	*	.1	.3	.0	.0	1.0	
	11-21	.3	*	.0	.0	.0	.0	*	.1	.0	.0	.4	
	22+	.1	*	.0	.0	.0	*	*	.0	.0	.0	.2	
	TOT %	.8	.1	.0	*	.1	.1	.2	.3	.0	.1	2.0	
1/2<1	0-3	.1	.0	.0	.0	.0	*	*	.0	.0	.0	.1	
	4-10	.0	.1	.0	.0	.1	.0	*	.0	.0	.0	.2	
	11-21	.2	*	.1	*	*	.0	.0	.1	.0	.0	.4	
	22+	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.3	.2	.1	.1	.1	.0	.1	.1	.0	.0	.9	
1<2	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	4-10	.1	.1	*	.0	.0	.0	*	*	.0	.0	.2	
	11-21	.2	*	.0	.0	.0	*	.0	.1	.0	.0	.3	
	22+	.0	*	.0	.0	.0	.1	*	.0	.0	.0	.1	
	TOT %	.2	.2	*	*	.0	.1	.1	.1	.0	.0	.7	
2<5	0-3	.0	.0	.0	*	*	.1	.0	.0	.0	.0	.1	
	4-10	.4	*	.1	.1	.1	.3	.1	.2	.0	.0	.9	
	11-21	.4	.1	*	.1	.2	.1	.1	.2	.0	.0	1.3	
	22+	.2	.1	.1	.1	.1	.2	.0	.1	.0	.0	.9	
	TOT %	.7	.2	.2	.4	.4	.7	.2	.5	.0	.0	3.3	
5<10	0-3	.2	.1	.1	.1	.2	.1	.2	.1	.0	.1	1.4	
	4-10	1.0	.6	.8	.5	.4	1.0	1.0	1.6	.0	.0	6.9	
	11-21	2.2	.9	.5	.3	1.0	2.0	1.6	2.1	.0	.0	10.5	
	22+	1.2	.3	.2	.1	1.1	1.7	.9	1.2	.0	.0	6.9	
	TOT %	4.7	1.9	1.6	1.0	2.8	4.8	3.7	5.0	.0	.1	25.7	
10+	0-3	.5	.1	.2	.1	.5	.3	.4	.3	.0	.8	3.3	
	4-10	3.7	1.2	1.0	1.0	2.0	4.7	4.3	3.2	.0	.0	22.3	
	11-21	4.7	1.3	.3	.6	3.8	6.5	5.7	6.9	.0	.0	29.4	
	22+	2.2	.5	*	*	1.2	4.3	2.5	1.4	.0	.0	12.1	
	TOT %	11.1	3.0	1.5	1.7	7.2	15.2	12.9	13.9	.0	.8	67.4	
TOT Obs													2399
TOT PCT													17.9 3.3 3.4 3.3 10.6 20.9 17.0 20.1 .0 1.0 100.0

ANNUAL

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1854-1973

APEA 0015 PUEERTO RISEA00
47.35 63.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NM >4/8) AND OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
	149	289	509	999	1999	3499	4999	6499	7999				
00003	.7	.6	1.0	4.2	8.9	7.6	6.8	.9	.0	.3	31.2	68.8	269
06009	1.0	.0	.7	5.0	11.0	4.4	3.8	1.6	.6	1.1	29.3	70.7	293
12015	2.0	.9	1.1	3.8	13.1	9.3	3.2	1.2	1.7	2.0	38.4	61.6	363
18021	.5	.0	1.4	6.0	11.1	8.3	3.4	1.6	.7	2.5	35.3	64.5	342
TOT													1271
PCT	1.2	.4	1.1	4.7	11.1	7.4	4.2	1.3	.8	1.5	33.7	66.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
00003	2.4	1.0	.9	4.7	29.3	61.7	846
06009	1.5	1.4	.9	4.3	25.9	66.1	921
12015	2.3	.5	1.0	1.8	29.2	69.2	724
18021	1.6	.7	1.0	1.9	22.6	72.2	949
TOT							2440
PCT	2.0	.9	.9	3.2	23.9	67.2	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 <500	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00003	.7	2.3	9.3	24.0	66.4	261
06009	1.1	2.1	9.1	21.6	69.2	284
12015	2.1	4.2	9.1	29.9	60.9	357
18021	.9	2.0	10.1	27.2	62.7	329
TOT						1234
PCT	1.2	2.8	9.3	25.8	64.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.1	.1	.0	.0	.1	.1
69/69	.0	.0	.0	.1	.2	.4	.2	.1	.9	.9
60/64	.0	.0	.0	.2	1.0	1.8	1.3	1.0	5.4	5.4
55/59	.0	.0	.6	1.6	3.0	5.8	2.3	15.8	31.7	31.7
50/44	.0	.0	.2	1.1	3.5	3.7	10.7	4.0	23.2	23.2
49/44	.0	.0	.0	1.2	3.0	3.5	10.7	7.0	30.4	30.4
46/44	.0	.0	.1	1.0	2.8	3.1	3.1	3.3	19.2	19.2
39/39	.0	.0	.0	.1	.4	.7	.8	.7	2.7	2.7
30/34	.0	.0	.0	.0	.0	.1	.1	.1	2.2	2.2
TOTAL									1807	100.0
PCT	.0	.0	.3	4.2	12.6	27.4	34.8	20.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
69/69	.2	.1	.1	.0	.1	.1	.2	.2	.0	.0
60/64	1.3	.2	.1	.2	.4	.3	1.1	1.4	.0	.2
55/59	3.7	.4	.2	.3	1.3	2.3	2.8	4.7	.0	.0
50/44	4.7	1.3	.3	.5	2.2	3.4	3.9	6.8	.0	.1
49/44	6.9	1.8	.6	.6	2.7	3.0	3.6	6.8	.0	.3
46/44	2.7	.9	.8	.8	2.7	4.6	4.0	2.3	.0	.1
39/39	.2	.1	.1	.0	.8	.9	.2	.3	.0	.1
30/34	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0
TOTAL	19.6	4.7	2.3	2.6	10.2	19.2	18.0	22.7	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEC F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	69	57	54	49	43	40	31	47.9	4858
06009	66	56	54	48	42	40	32	47.3	2658
12015	71	60	56	50	43	41	33	49.1	6854
18021	73	60	57	50	44	41	32	49.3	2374
TOT	73	59	55	49	43	40	31	48.6	16942

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.4	12.7	23.6	33.9	25.4	81	460		
06009	.0	3.3	10.9	26.8	35.4	23.4	82	416		
12015	.0	4.7	11.0	30.3	33.7	20.1	80	327		
18021	.0	3.7	14.8	28.6	36.8	14.1	79	443		
TOT	0	82	22.7	494	638	383	30	1846		

PERIOD: (PRIMARY) 1961-1973
(OVER-ALL) 1954-1973

ANNUAL

APEA 0015 PUERTO RISEADO
47.95 63.0M

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THP OCCURRENCE OF FOG (WITHOLT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA THP DIP	33	37	41	45	49	53	57	61	65	69	TOT	M FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	2	.1	.1
11/13	.0	.0	.0	.0	.0	.1	.2	.3	.0	.0	8	.0	.4
9/10	.0	.0	.0	.1	.1	.3	.4	.3	.1	.0	23	.1	1.0
7/8	.0	.0	.0	.1	.5	.7	.7	.5	.2	.0	53	.0	2.7
6	.0	.0	.0	.2	.8	.7	.5	.3	.0	.0	51	.1	2.5
5	.0	.0	.1	.7	.9	1.1	1.2	.5	.3	.0	88	.0	4.7
4	.0	.0	.2	1.4	2.0	1.2	.7	.1	.0	.0	111	.1	5.9
3	.0	.0	.3	2.7	2.6	2.0	1.5	.3	.0	.0	177	.4	8.9
2	.0	.0	1.1	4.5	2.6	2.4	1.1	.3	.0	.0	230	1.1	10.9
1	.0	.0	.8	4.1	3.9	2.4	.9	.1	.0	.0	234	.5	11.6
0	.0	.0	3.6	4.8	3.1	2.5	.6	.2	.0	.0	279	1.4	13.5
-1	.0	.2	3.4	2.1	2.0	1.7	.3	.0	.0	.0	184	.4	9.3
-2	.0	.4	3.8	1.6	1.1	1.0	.2	.0	.0	.0	154	.5	7.7
-3	.0	1.2	2.5	1.3	.9	.9	.1	.0	.0	.0	120	.4	6.0
-4	.1	.6	1.8	.8	.3	.5	.1	.0	.0	.0	76	.2	3.8
-5	.1	.6	.6	.3	.3	.6	.0	.0	.0	.0	36	.0	1.9
-6	.1	.7	.3	.2	.2	.6	.0	.0	.0	.0	29	.1	1.3
-7/-8	.0	.5	.2	.3	.2	.1	.0	.0	.0	.0	26	.0	1.3
-9/-10	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	20	.0	1.1
-11/-13	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	6	.0	.3
TOTAL											1907		
PCT	.4	4.4	19.6	25.6	21.3	17.2	8.5	2.9	.5	.1	100.0	9.3	94.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
41	.2	.9	.1	.0	.0	.0	1.2	.0	.2	.0	.0	.0	.0	.0	.0	.2
1-2	.6	2.0	1.7	.0	.0	.0	4.3	.0	.5	.6	.0	.0	.0	.0	.0	1.1
3-4	.1	1.4	3.0	.3	.0	.0	4.8	.0	.4	.7	.0	.0	.0	.0	.0	1.1
5-6	.0	.9	3.0	1.3	.0	.0	5.2	.0	.2	.4	.0	.0	.0	.0	.0	.6
7	.0	.7	1.2	1.8	.2	.0	3.2	.0	.0	.2	.0	.1	.0	.0	.0	.2
8-9	.0	.0	1.3	.4	.0	.0	1.7	.0	.0	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.2	.1	.0	.0	.3	.0	.0	.0	.1	.0	.0	.0	.0	.1
12	.0	.0	.0	.4	.1	.0	.3	.0	.0	.0	.1	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.1	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	3.2	10.3	4.6	.4	.0	21.7	.0	1.2	1.8	.6	.2	.0	.0	.0	3.9

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
41	.0	.6	.2	.0	.0	.0	.8	.1	.1	.0	.0	.0	.0	.0	.0	.2
1-2	.1	1.1	.5	.0	.0	.0	1.4	.0	.5	.6	.0	.0	.0	.0	.0	.3
3-4	.0	.1	.5	.2	.0	.0	.8	.0	.6	.4	.0	.0	.0	.0	.0	.4
5-6	.0	.0	.4	.0	.0	.0	.8	.0	.6	.1	.0	.0	.0	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1	.0	.2	.2	.0	.0	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.8	1.3	.2	.0	.0	3.5	.1	.7	.9	.2	.0	.0	.0	.0	1.9

PERIOD: (OVER-ALL) 1963-1973

ANNUAL
TABLE 18 (CONT)

AREA 0015 PUERTO DESEADO
47.95 63.04

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	SW						PCT	NW						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<.1	.7	.4	.1	.0	.0	.0	1.2	.4	.3	.1	.0	.0	.0	.0	.8
1-2	.1	.6	1.2	.0	.0	.0	1.9	.*	2.1	1.2	.0	.0	.0	.0	3.3
3-4	.1	.2	1.7	.9	.0	.0	2.5	.0	1.1	3.0	.*	.0	.0	.0	4.1
5-6	.0	.5	1.6	.3	.0	.0	2.5	.1	.4	2.2	1.7	.0	.0	.0	4.4
7	.0	.1	.4	.2	.1	.0	.9	.0	.2	1.1	1.6	.1	.0	.0	2.9
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	1.0	.4	.0	.0	1.6
10-11	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	1.1	.0	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.6
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.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	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	1.9	9.2	1.2	.2	.0	9.5	.5	4.1	7.7	5.9	.9	.0	.0	19.1

HGT	SW						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<.1	.1	.8	.1	.0	.0	.0	1.0	.0	.6	.2	.0	.0	.0	.0	.8
1-2	.1	1.4	1.8	.0	.0	.0	3.4	.7	3.6	1.3	.0	.0	.0	.0	5.1
3-4	.0	1.9	3.8	.3	.0	.0	5.8	.0	1.8	4.9	.4	.0	.0	.0	7.1
5-6	.0	.4	2.1	1.2	.0	.0	3.7	.0	.5	3.4	.4	.1	.0	.0	4.4
7	.0	.0	1.0	.8	.1	.0	1.9	.0	.0	2.2	.7	.0	.0	.0	3.0
8-9	.0	.0	.2	.3	.2	.0	.8	.0	.0	.3	.3	.0	.0	.0	.6
10-11	.0	.1	.0	.7	.0	.0	.8	.0	.*	.*	.3	.2	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.4	.0	.7	.0	.0	.0	.1	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.7	8.8	3.7	.7	.0	18.1	.7	6.5	12.3	2.5	.4	.0	.0	21.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<.1	2.2	4.2	.9	.0	.0	.0	7.3	
1-2	1.4	11.9	7.8	.0	.0	.0	21.1	
3-4	.4	6.9	17.5	1.7	.0	.0	26.6	
5-6	.1	2.9	13.0	4.8	.1	.0	21.0	
7	.0	.4	6.4	5.1	.6	.0	12.5	
8-9	.0	.0	2.2	2.2	.6	.0	5.0	
10-11	.0	.1	.3	2.5	.3	.0	3.2	
12	.0	.0	.0	.8	.4	.0	1.2	
13-16	.0	.0	.0	1.3	.4	.0	1.7	
17-19	.0	.0	.0	.0	.3	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.2	26.3	48.0	18.7	2.8	.0	100.0	614

PERIOD: (OVER-ALL) 1952-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<.1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<.1	1.5	8.0	13.5	8.3	3.2	2.3	.6	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	414	4
1-2	.1	.3	5.1	9.1	3.4	3.3	1.1	1.3	1.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	289	6
3-4	.0	.3	1.1	2.7	2.7	2.0	1.8	.7	1.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	133	8
5-6	.0	.1	.6	.9	.7	1.0	1.0	.5	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	8
7-9	.0	.0	.6	.7	.2	.3	.2	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	7
10-11	.0	.0	.0	.3	.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	8
12-13	.0	.0	.0	.3	.0	.1	.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	5
INDEX TOTAL	1.2	1.1	2.7	1.5	.9	.5	.8	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1031	6
PCT	2.6	9.6	25.7	23.5	14.1	9.5	3.4	3.8	4.3	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1901-1973
(OVER ALL) 1854-1973

APEA 0015 PUERTO RISEADO
47.55 63.04

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
94+	.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	.2	.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	14	.1
61/62	1.3	2.2	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	61	.4
59/60	5.3	4.9	4.2	.1	.0	.0	.0	.0	.0	.0	.0	.5	181	1.1
57/58	19.0	18.7	8.6	1.4	.0	.0	.0	.0	.0	.0	.2	2.9	568	3.4
55/56	26.4	31.4	21.5	4.6	.7	.0	.0	.0	.0	.0	.9	6.7	1123	6.7
53/54	26.8	22.4	23.4	12.2	1.8	.0	.1	.0	.0	.1	1.9	13.7	1261	7.5
51/52	16.9	13.4	24.7	22.2	3.2	.3	.3	.2	.1	.3	6.9	26.6	1455	8.7
49/50	4.3	4.2	12.2	32.1	16.8	3.0	.5	.2	1.3	3.3	19.2	28.3	1699	10.1
47/48	1.3	.4	2.2	19.7	31.1	11.8	2.1	1.2	2.7	13.4	31.1	17.7	1842	11.0
45/46	.6	.1	.4	7.1	38.6	50.6	27.3	12.4	18.9	39.5	31.5	3.2	3399	20.2
43/44	.0	.0	.2	.5	6.8	30.3	52.0	51.6	45.2	34.7	7.3	.2	1609	21.5
41/42	.0	.0	.4	.1	1.0	3.7	15.5	30.9	27.0	8.5	.7	.1	1403	8.4
39/40	.0	.0	.0	.0	.1	.1	1.9	3.0	4.6	.3	.1	.0	163	1.0
37/38	.0	.0	.0	.0	.0	.1	.3	.3	.1	.0	.0	.0	15	.1
35/36	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	2	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	1172	1201	1254	1258	1344	1484	1824	1769	1432	1104	1436	1901	16799	100.0
MEAN	54.3	54.8	53.4	50.1	47.0	45.1	43.7	43.0	43.5	44.8	47.4	50.8	48.1	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1004	1003	1005	1003	1004	1004	1003	1003	1004	916
FEB	1007	1007	1002	1007	1008	1008	1005	1008	1007	747
MAR	1009	1008	1006	1009	1008	1007	1009	1008	1008	933
APR	1007	1007	1008	1006	1007	1007	1007	1007	1007	1003
MAY	1009	1010	1005	1010	1009	1007	1007	1008	1008	947
JUN	1007	1006	1009	1006	1006	1007	1009	1007	1007	1361
JUL	1009	1009	1011	1009	1009	1008	1010	1009	1009	1411
AUG	1009	1009	1003	1008	1008	1009	1004	1004	1008	1281
SEP	1008	1009	1005	1009	1010	1011	1007	1008	1009	980
OCT	1007	1007	1009	1007	1007	1005	1006	1006	1007	757
NOV	1005	1006	1007	1005	1006	1004	1005	1005	1005	1045
DEC	1005	1005	1004	1004	1005	1004	1006	1005	1005	906
ANN	1007	1007	1007	1007	1007	1007	1007	1007	1007	12317
OBS	1920	1894	211	1889	1945	2744	343	1671		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	978	985	991	998	1004	1009	1017	1020	1023
FEB	981	985	993	1001	1007	1013	1022	1023	1027
MAR	979	985	993	1002	1008	1019	1022	1026	1030
APR	980	984	990	1000	1007	1014	1022	1024	1031
MAY	976	980	987	1000	1008	1018	1027	1031	1034
JUN	978	982	988	999	1007	1019	1024	1028	1035
JUL	979	984	991	1002	1010	1014	1025	1032	1034
AUG	979	983	989	1000	1009	1017	1028	1033	1036
SEP	974	984	991	1003	1009	1015	1027	1030	1034
OCT	979	984	993	1001	1007	1013	1022	1027	1032
NOV	977	983	991	1000	1005	1012	1019	1024	1030
DEC	981	985	990	999	1005	1010	1019	1022	1024

PERIOD: (PRIMARY) 1932-1973
(OVER-ALL) 1922-1973

JANUARY

AREA 0016 MAGELLAN STR IT EAST
51.35 65.84

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WQ PCPN	FOG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST SIG WEA	NO SIG WEA
N	6.7	4.3	4.3	.0	.0	.0	.0	17.4	.0	.0	10.9	.0	.0	.0	.0	71.7
NE	.0	.0	.0	.0	.0	.0	.0	.0	8.7	.0	4.3	.0	.0	.0	.0	87.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	2.8	5.6	.0	.0	.0	.0	.0	8.3	11.1	.0	2.8	.0	.0	.0	.0	77.8
SW	4.6	.0	1.8	.0	.0	.0	.0	6.3	3.7	.0	.9	.0	.5	.0	.0	88.3
W	1.7	.0	1.7	.0	.0	.0	.0	3.3	.0	.0	3.3	.0	1.2	.0	.0	92.1
NW	.0	3.0	3.0	.0	.0	.0	.0	10.0	.0	.0	13.0	.0	.0	.0	.0	73.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.1	1.3	2.1	.0	.0	.0	.0	6.7	2.6	.0	4.6	.0	.3	.0	.0	85.6
TOT OBS	194															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WQ PCPN	FOG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST SIG WEA	NO SIG WEA
0603	7.3	1.9	.0	.0	.0	.0	.0	9.4	1.9	.0	1.9	.0	.0	.0	.0	86.8
0609	2.1	.0	2.1	.0	.0	.0	.0	4.2	2.1	.0	10.4	.0	.0	.0	.0	83.2
1209	.0	.0	3.1	.0	.0	.0	.0	3.1	3.1	.0	3.4	.0	1.7	.0	.0	84.7
18021	2.4	4.9	.0	.0	.0	.0	.0	7.3	.0	.0	2.4	.0	.0	.0	.0	90.2
TOT PCT	3.0	1.3	2.0	.0	.0	.0	.0	6.3	2.3	.0	4.3	.0	.3	.0	.0	86.1
TOT OBS	201															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47				48+	00	03	06	09	12	15	18	21
N	.4	3.0	4.3	1.4	.0	.0	11.2	14.8	13.2	20.7	11.2	6.7	4.1	9.1	7.1	20.2
NE	.4	1.7	1.4	1.7	.0	.0	3.2	14.9	6.7	.0	6.9	2.9	7.8	4.3	4.3	3.8
E	.0	.0	.6	.0	.0	.0	.6	13.8	1.2	.0	.0	.0	.0	.0	2.7	.0
SE	.0	.2	.4	.0	.0	.0	.7	10.3	.0	.0	.0	.0	2.3	.0	1.8	.0
S	.0	2.8	4.3	1.3	.0	.0	8.4	14.1	13.4	13.3	10.3	3.8	4.1	6.8	9.9	4.8
SW	1.1	6.3	14.9	3.0	1.6	.4	26.8	16.0	26.8	26.7	30.2	26.9	27.3	21.6	30.4	21.4
W	1.1	9.6	18.9	6.8	1.0	.0	33.8	16.1	23.6	19.0	15.0	33.4	47.7	39.8	32.1	40.3
NW	.0	6.2	4.8	.0	.1	.0	11.1	10.8	11.0	18.3	9.3	18.3	4.7	18.2	8.0	9.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.2	.0	.0	.0	.0	.0	2.2	.0	.0	.0	6.9	3.8	2.3	.0	3.6	.0
TOT OBS	12	67	107	32	4	1	225	14.7	41	13	29	26	43	22	28	21
TOT PCT	9.3	29.8	47.6	14.2	2.7	.4	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)								
	0-6	7-16	17-27	28-40				41+	00	03	06	09	12	15	18	21
N	.9	3.1	3.2	.0	.0	11.2	14.8	18.3	9.1	5.8	12.8					
NE	.4	2.8	1.6	.4	.0	3.2	14.9	4.9	3.0	6.3	4.1					
E	.0	.3	.2	.0	.0	.6	13.8	.9	.0	.0	1.3					
SE	.2	.4	.0	.0	.0	.7	10.3	.0	.0	1.3	1.0					
S	2.0	3.2	2.3	.9	.0	8.4	14.1	13.4	8.2	3.0	7.7					
SW	2.9	14.9	6.1	2.0	.9	26.8	16.0	26.8	26.8	23.4	26.5					
W	2.7	17.4	9.6	4.1	.0	33.8	16.1	22.8	30.0	43.0	33.7					
NW	2.9	6.9	1.2	.1	.0	11.1	10.8	12.9	13.4	9.2	8.7					
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	2.2	.0	.0	.0	.0	2.2	.0	.0	3.3	1.3	2.0					
TOT OBS	32	119	89	17	2	225	14.7	58	33	61	49					
TOT PCT	14.2	51.1	26.2	7.6	.9	100.0		100.0	100.0	100.0	100.0					

JANUARY

PERIOD: (PRIMARY) 1972-1973
(OVER-ALL) 1922-1973

AREA 0016 MAGELLAN STRAIT EAST
51.35 65.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000Z	.0	3.6	19.4	64.3	10.7	.0	1.8	15.3	100.0	36
0600Z	5.5	3.6	36.4	38.2	14.5	1.8	.0	13.3	100.0	33
1201Z	1.5	4.6	27.7	48.2	15.4	4.6	.0	13.3	100.0	65
1802Z	2.0	.0	36.7	40.8	16.3	4.1	.0	14.8	100.0	49
TOT	5	7	67	107	32	6	1	14.7		225
PCT	2.2	3.1	29.8	47.6	14.2	2.7	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN CLOUD COVER
NE	.0	.0	3.4	7.4	7.2	7.2
E	.0	.0	1.4	.0	6.2	6.2
SE	.6	.0	.0	.0	2.0	2.0
S	2.6	1.1	3.1	1.1	4.5	4.5
SW	6.0	9.4	11.1	3.4	4.6	4.6
W	3.7	3.4	13.6	2.8	3.0	3.0
NW	3.7	1.1	3.7	1.7	4.3	4.3
VAR	.0	.0	.0	.0	.0	.0
CALM	1.1	.0	.0	.0	3.0	3.0
TOT OBS	18	13	38	17	88	3.1
TOT PCT	20.5	17.0	43.2	19.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WIND DIR	CEILING HEIGHTS (FT, NM >4/8)										NM <5/8	TOTAL ANY HGT OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+		
N	.0	.0	.0	.0	4.3	1.1	.0	.0	.0	.0	.9	1.7
NE	.0	.0	.0	1.1	1.4	.0	1.4	1.1	1.1	1.4	1.4	3.1
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	1.1	1.1	1.1	.0	.0	.0	.0	3.7
SW	.0	.0	.0	1.1	1.1	3.4	1.1	1.1	.0	1.1	.0	22.2
W	1.7	.0	.0	.9	1.1	.0	1.1	1.1	.0	1.1	.0	20.5
NW	.0	.0	.0	.3	1.1	1.1	.0	.0	.0	.0	.0	7.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	2.3
TOT OBS	2	0	0	3	9	7	4	2	2	3	3	36
TOT PCT	2.3	.0	.0	3.4	10.2	8.0	4.3	2.3	2.3	3.4	63.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>3500	4.4	3.6	6.5	6.6	6.6	6.6	6.6	6.6
>3000	6.6	8.6	8.8	8.8	8.8	8.8	8.8	8.8
>2500	9.9	13.7	13.2	13.2	13.2	13.2	13.2	13.2
>2000	16.3	20.9	20.9	20.9	20.9	20.9	20.9	20.9
>1000	17.0	30.8	31.9	31.9	31.9	31.9	31.9	31.9
>600	24.2	34.1	35.2	35.2	35.2	35.2	35.2	35.2
>300	24.2	34.1	35.2	35.2	35.2	35.2	35.2	35.2
>150	24.2	34.1	35.2	35.2	35.2	35.2	35.2	35.2
>0	24.2	34.1	35.2	35.2	35.2	35.2	37.4	47.4
TOTAL	22	31	32	32	32	32	34	34

TOTAL NUMBER OF OBS: 91 PCT FREQ NM <5/8: 62.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS
0	17.7	11.5	17.7	9.4	9.4	3.2	7.3	13.5	96

PERIOD: (PRIMARY) 1932-1973
(OVER-ALL) 1922-1973

JANUARY

AREA 0016 MAGELLAN STRAIT EAST
51.35 65.8W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VS&Y (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.5	.0	.0	.0	.0	.0	.8	.3	.0	.0	.0	1.6
	TOT %	.5	.0	.0	.0	.0	.0	.8	.3	.0	.0	.0	1.6
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.3	.8	.0	.0	.0	1.1
	TOT %	.0	.0	.0	.0	.0	.0	.3	.8	.0	.0	.0	1.1
1<2	PCP	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.5
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.5
2<5	PCP	.0	.0	.0	.0	.0	.8	.8	.0	.0	.0	.0	1.6
	NO PCP	1.8	.5	.0	.0	.0	1.8	2.1	1.1	.0	.0	.0	7.4
	TOT %	1.8	.5	.0	.0	.0	2.6	2.9	1.1	.0	.0	.0	8.9
5<10	PCP	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6
	NO PCP	4.2	2.2	.4	.0	3.2	4.5	7.4	2.4	.0	.0	.3	24.7
	TOT %	5.8	2.2	.4	.0	3.2	4.5	7.4	2.4	.0	.0	.3	26.3
10+	PCP	.0	.0	.0	.0	.5	.5	.0	.5	.0	.0	.0	1.6
	NO PCP	3.4	3.3	.5	.8	5.5	20.4	19.7	5.0	.0	.0	1.6	60.0
	TOT %	7.4	3.3	.5	.8	6.1	20.9	19.7	5.5	.0	.0	1.6	61.6
TOT OBS													190
TOT PCT		11.6	6.1	.7	.8	9.5	28.3	31.1	10.0	.0	2.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VS&Y (NM)	SFD 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	.0
	4-10	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
	11-21	.0	.0	.0	.0	.0	.0	.8	.3	.0	.0	.0	1.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.5	.0	.0	.0	.0	.0	.8	.3	.0	.0	.0	1.6
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.3	.8	.0	.0	.0	1.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.3	.8	.0	.0	.0	1.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.3
2<5	0-3	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5
	4-10	.3	.5	.0	.0	.0	1.8	.8	.5	.0	.0	.0	3.7
	11-21	1.1	.0	.0	.0	.0	.3	2.1	.5	.0	.0	.0	4.2
	22+	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
	TOT %	1.8	.5	.0	.0	.0	2.6	2.9	1.1	.0	.0	.0	8.9
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5
	4-10	1.3	.0	.0	.0	1.6	.3	2.6	1.6	.0	.0	.0	7.4
	11-21	3.3	1.3	.4	.0	1.6	3.7	2.6	.8	.0	.0	.3	13.7
	22+	1.2	.9	.4	.0	.0	.5	2.1	.0	.0	.0	.0	4.7
	TOT %	5.8	2.2	.4	.0	3.2	4.5	7.4	2.4	.0	.0	.3	26.3
10+	0-3	.5	.5	.0	.0	.0	.3	1.3	.0	.0	.0	1.6	4.2
	4-10	.3	1.3	.0	.3	1.7	4.6	5.5	2.6	.0	.0	.0	16.3
	11-21	2.6	.4	.3	.5	3.3	10.9	8.0	2.9	.0	.0	.0	28.9
	22+	.0	1.1	.0	.0	1.1	3.1	4.9	.0	.0	.0	.0	12.1
	TOT %	3.4	3.3	.3	.8	6.1	20.9	19.7	5.5	.0	.0	1.6	61.6
TOT OBS													190
TOT PCT		11.6	6.1	.7	.8	9.5	28.3	31.1	10.0	.0	2.1	100.0	

JANUARY

PERIOD: (PRIMARY) 1932-1973
(OVER-ALL) 1927-1973

AREA 0016 MAGELLAN STRAIT EAST
51.33 65.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	16.0	4.0	4.0	.0	.0	4.0	28.0	72.0	25
06009	4.2	.0	.0	8.3	12.5	12.5	.0	.0	4.2	8.3	50.0	50.0	24
12015	4.5	.0	.0	4.5	9.1	4.2	4.5	4.5	4.5	.0	36.4	63.6	22
18021	.0	.0	.0	.0	4.3	8.7	8.7	4.3	.0	4.3	30.4	69.6	23
TOT	7	0	0	3	10	7	4	2	2	4	34	66	94
PCT	2.1	.0	.0	3.2	10.6	7.4	4.3	2.1	2.1	4.3	36.7	63.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	1.9	15.4	15.0	57.7	52
06009	2.2	2.2	.0	8.7	30.4	56.5	46
12015	1.7	1.7	.0	8.6	25.3	58.6	58
18021	2.4	.0	.0	.0	17.1	80.5	41
TOT	3	2	1	17	51	123	197
PCT	3	1.0	.5	8.6	25.9	52.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR CEILING HGT (FEET) NH >4/8) BY HOUR

HRUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	28.0	72.0	25
06009	4.3	4.3	13.0	39.1	47.8	23
12015	4.8	4.8	14.3	23.8	61.9	21
18021	.0	.0	.0	31.8	68.2	22
TOT	2	2	6	28	57	91
PCT	2.2	2.2	6.6	30.8	62.6	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
60/64	.0	.0	.0	.4	.0	.0	1.1	1.1	3	2.6
55/59	.5	.0	1.1	2.6	5.3	3.2	7.4	3.7	48	23.8
50/54	.0	.0	.5	2.1	12.7	12.7	11.6	2.1	79	41.8
45/49	.0	.0	.0	.0	3.7	10.1	11.1	5.8	58	30.7
40/44	.0	.0	.0	.0	.0	.0	.5	.5	2	1.1
TOTAL	1	0	3	10	41	49	60	25	189	100.0
PCT	.5	.0	1.6	5.3	21.7	25.9	31.7	13.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.9	.1	.0	.0	.0	.3	.8	.5	.0
55/59	2.1	.7	.4	.0	.5	6.2	8.3	4.4	.0
50/54	6.1	2.1	.3	.0	3.7	8.9	16.1	3.6	.0
45/49	1.6	2.0	.0	.3	2.1	10.7	10.8	2.9	.0
40/44	.0	.0	.0	.0	.5	.0	.0	.0	.0
TOTAL	10.7	4.9	.7	.3	6.9	26.6	36.0	11.4	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	59	58	58	52	46	42	47	52.3	60
06009	59	58	57	50	44	43	47	50.3	61
12015	61	60	57	50	46	41	41	50.8	71
18021	61	60	60	53	48	46	46	53.5	53
TOT	61	60	54	51	45	43	41	51.6	245

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.0	28.0	14.0	36.0	16.0	16.0	77	50	
06009	.0	.0	14.9	34.0	31.9	19.1	19.1	80	47	
12015	1.9	3.7	24.1	24.1	33.7	13.0	13.0	77	54	
18021	.0	18.2	20.5	23.5	27.3	4.3	4.3	72	44	
TOT	1	13	47	49	63	26	26	77	195	

PERIOD: (PRIMARY) 1932-1973
(OVER-ALL) 1922-1973

JANUARY

AREA 0016 MAGELLAN STRAIT EAST
51.35 65.8W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (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	TOT	h FCG	NO FDG
14/16	.0	.0	.0	.0	.5	.0	1	.0	.5
9/10	.0	.0	.0	.0	1.1	1.1	4	.0	2.1
7/8	.0	.0	1.1	2.7	3.2	.0	13	.0	6.9
6	.0	.0	.0	2.7	1.6	.0	8	.0	4.3
5	.0	.0	2.7	3.7	1.1	.0	14	.0	7.4
4	.0	.5	3.2	3.7	1.1	.0	16	.5	8.0
3	.0	2.7	5.9	3.2	1.1	.0	24	1.1	11.7
2	.0	3.7	4.3	6.9	.5	.0	29	1.6	13.8
1	.0	2.1	7.4	.5	.0	.0	19	1.1	9.0
0	.0	3.2	2.7	.5	.0	.0	12	.0	6.4
-1	.0	1.6	4.3	1.1	.0	.0	13	.0	6.9
-2	.5	3.2	3.2	.5	.0	.0	14	.5	6.9
-3	.5	2.7	1.1	.0	.0	.0	8	.0	4.3
-4	.5	1.6	1.1	.0	.0	.0	6	.0	3.2
-5	.5	.0	.0	.0	.0	.0	1	.0	.5
-6	.0	.5	.0	.0	.0	.0	1	.0	.5
-7/-8	.5	1.6	.0	.0	.0	.0	4	.0	2.1
-9/-10	.5	.0	.0	.0	.0	.0	1	.0	.5
TOTAL	6	44	69	48	19	2	188	9	179
PCT	3.2	23.4	38.7	25.5	10.1	1.1	100.0	4.8	95.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	H						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	1.9	.0	.0	.0	.0	1.9	1.9	.0	.0	.0	.0	.0	1.9
1-2	.0	.0	2.8	.0	.0	.0	2.8	.0	1.9	2.8	.0	.0	.0	4.7
3-4	.0	.0	1.9	1.4	.0	.0	3.3	.0	1.9	.0	.0	.0	.0	2.4
5-6	.0	.0	.0	1.9	.0	.0	1.9	.0	.0	3.8	.0	.0	.0	3.8
7	.0	.0	.0	.0	1.9	.0	1.9	.0	.0	1.9	.0	.0	.0	1.9
8-9	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	6.6	3.3	.0	.0	11.8	1.9	3.8	2.8	6.1	.0	.0	14.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

FEBRUARY

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1971-1973

AREA 0016 MAGELLAN STRAIT EAST
51.85 66.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

W. D DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.6	.0	.0	.0	.0	.0	.0	3.6	.0	.0	14.5	.0	.0	.0	81.8
NE	23.1	.0	.0	.0	.0	.0	.0	23.1	.0	.0	.0	.0	.0	.0	76.9
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	46.2	.0	.0	.0	.0	.0	.0	46.2	.0	.0	.0	.0	.0	15.4	38.5
S	9.3	.0	.0	.0	.0	.0	.0	9.3	16.3	.0	.0	.0	.0	.0	74.4
SW	3.5	1.7	.0	.0	.0	.0	.0	7.2	.4	.0	1.7	.0	.0	.0	90.7
W	3.7	.0	1.8	.0	.0	.0	.0	3.0	1.8	.0	3.6	.0	.0	.0	89.6
NW	8.4	8.4	4.2	.0	.0	.0	.0	21.1	.0	.0	.0	.0	.0	.0	78.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	7.3	1.7	1.1	.0	.0	.0	.0	10.1	1.7	.0	2.8	.0	.0	.6	84.8
TOT OBS:	178														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	3.6	1.8	1.8	.0	.0	.0	.0	7.1	1.8	.0	3.6	.0	.0	1.8	85.7
0810	4.9	4.9	2.4	.0	.0	.0	.0	12.2	2.4	.0	2.4	.0	.0	.0	82.9
1201	11.4	.0	.0	.0	.0	.0	.0	11.4	.0	.0	2.3	.0	.0	.0	86.4
1821	9.3	.0	.0	.0	.0	.0	.0	9.3	2.3	.0	2.3	.0	.0	.0	86.0
TOT PCT	7.1	1.6	1.1	.0	.0	.0	.0	9.8	1.6	.0	2.7	.0	.0	.5	83.3
TOT OBS:	184														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47				48+	00	03	06	09	12	15	18	21
N	.5	1.9	4.6	.0	.0	.0	7.0	12.0	7.1	15.0	12.5	8.7	9.5	.0	2.7	5.9
NE	.5	.5	1.8	.5	.0	.0	3.3	13.0	5.8	.0	.0	2.2	4.7	5.9	4.5	.0
E	.0	.4	.8	.0	.0	.0	1.1	11.0	1.6	.0	3.8	.0	.0	4.4	.0	.0
SE	.0	1.1	1.7	.5	.0	.0	3.3	15.8	.0	5.0	6.3	4.3	3.1	7.4	3.6	.0
S	.0	3.1	3.2	.0	.0	.0	6.3	10.8	3.8	5.0	10.0	7.6	6.3	4.4	11.6	.0
SW	.0	8.4	15.7	8.5	2.7	.0	32.8	17.0	35.3	25.8	18.8	29.3	36.7	25.0	44.6	39.7
W	.0	.7	17.0	3.2	1.4	.0	31.3	16.8	28.8	41.3	28.8	32.6	28.9	39.7	25.9	30.9
NW	.0	5.5	6.4	1.5	.5	.0	14.9	14.4	17.3	10.0	20.0	15.2	14.8	13.2	7.1	23.5
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	.0
TOT OBS	2	98	100	28	8	0	196	15.6	37	20	20	23	32	17	28	17
TOT PCT	1.0	24.6	51.0	14.3	4.1	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	.5	5.7	.6	.0	.0	7.0	12.0	9.7	10.5	3.6	3.9
NE	.5	2.0	.8	.0	.0	3.3	13.0	3.8	1.2	5.1	2.8
E	.4	.4	.4	.0	.0	1.1	11.0	1.2	1.7	1.5	.0
SE	1.1	1.5	1.1	.5	.0	3.2	15.8	1.7	3.2	4.6	2.2
S	1.1	4.2	.9	.0	.0	6.2	10.8	4.2	8.7	5.6	7.2
SW	3.2	16.2	8.9	3.4	1.0	32.8	17.0	31.4	24.4	32.7	42.8
W	.8	18.0	7.8	4.7	.0	31.3	16.8	33.1	30.8	32.7	27.8
NW	.0	10.6	3.3	1.0	.0	14.9	14.4	14.8	17.4	14.3	13.3
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	15	113	47	19	2	196	15.6	54	43	49	45
TOT PCT	7.7	57.7	24.0	9.7	1.0	100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1932-1973
(OVER-ALL) 1921-1973

AREA 0016 MAGELLAN STRAIT EAST
51.8S 66.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00003	.0	1.7	27.1	54.2	10.2	6.8	.0	15.3	100.0	39
06009	.0	.0	34.9	48.8	11.6	4.7	.0	15.6	100.0	43
12015	.0	.0	32.7	46.3	18.4	2.0	.0	15.7	100.0	49
18021	.0	2.2	24.4	53.3	17.8	2.2	.0	15.6	100.0	45
TOT	0	2	58	100	28	8	0	15.6		196
PCT	.0	1.0	29.6	51.0	14.3	4.1	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN CLOUD COVER
NE	.0	1.7	2.5	1.3	5.7	5.7
E	.6	.0	.6	.4	4.6	4.6
SE	1.1	.0	.0	3.4	6.3	6.3
S	1.7	.8	2.9	2.3	5.4	5.4
SW	3.5	4.4	19.3	8.0	5.4	5.4
W	5.0	1.5	14.5	4.8	5.4	5.4
NW	1.7	1.7	4.8	3.4	5.6	5.6
VAR	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0
TOT OBS	19	12	56	32	119	5.6
TOT PCT	16.0	10.1	47.1	26.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT.) NH >4/8
AND OCCURRENCE OF NH <4/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <4/8	TOTAL
.0	.0	.8	.4	.0	.0	1.5	.4	.0	.0	2.5	
.0	.0	.0	1.3	.8	.0	.0	.4	.0	.0	2.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	
.0	.0	.0	.8	.8	1.7	.0	.0	.0	.0	1.3	
.0	.0	.0	.0	1.5	.0	1.9	.6	.0	.0	4.2	
.0	.0	.0	3.6	2.9	3.6	.4	.2	.8	1.1	2.6	
.0	.0	.0	.6	1.5	4.0	1.4	.0	.0	1.5	16.8	
.0	.0	.0	.0	.8	.8	1.1	.8	.0	.0	8.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	1	8	10	12	7	3	1	3	74	119
.0	.0	.8	6.7	8.4	10.1	5.9	2.5	.8	2.5	62.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
>5000	4.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7
>3500	8.1	11.4	11.4	11.4	11.4	11.4	11.4	11.4
>2000	12.2	21.1	21.1	21.1	21.1	21.1	21.1	21.1
>1000	17.9	29.3	29.3	29.3	29.3	29.3	29.3	29.3
>800	22.0	34.1	35.8	35.8	35.8	35.8	35.8	35.8
>300	22.0	35.0	36.6	36.6	36.6	36.6	36.6	36.6
>150	22.0	35.0	36.6	36.6	36.6	36.6	36.6	36.6
>0	22.0	35.0	36.6	36.6	36.6	36.6	36.6	36.6
TOTAL	27	43	45	45	45	45	45	45

TOTAL NUMBER OF OBS: 123

PCT FREQ NH <5/8: 63.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL	
OBS									CBS	
9.6	14.1	19.3	10.4	10.4	8.1	4.4	5.2	18.5	.0	115

PERIOD: (PRIMARY) 1932-1973
(OVER-ALL) 1921-1973

FEBRUARY

APEA 0016 MAGELLAN STRAIT EAST
51.85 66.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
	TOT %	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
	TOT %	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6
	TOT %	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6
2<5	PCP	.0	.0	.0	.6	.0	.1	.4	.0	.0	.0	.0	1.1
	NO PCP	.0	.0	.0	.0	.0	.0	2.0	.8	.0	.0	.0	2.8
	TOT %	.0	.0	.0	.6	.0	.1	2.4	.8	.0	.0	.0	3.9
5<10	PCP	.0	.6	.0	1.1	.6	1.7	1.1	1.1	.0	.0	.0	6.2
	NO PCP	1.7	.4	.8	.7	2.0	6.2	14.0	3.4	.0	.0	.0	29.2
	TOT %	1.7	1.0	.8	1.8	2.5	7.9	15.2	4.5	.0	.0	.0	35.4
10+	PCP	.3	.3	.0	.0	.0	.6	.0	1.7	.0	.0	.0	2.6
	NO PCP	4.6	2.4	.4	1.3	3.5	24.7	12.9	8.3	.0	.0	.0	56.2
	TOT %	4.9	2.7	.4	1.3	3.5	25.3	12.9	8.0	.0	.0	.0	59.0
TOT OBS													178
TOT PCT		7.7	3.7	1.3	3.7	6.0	33.3	31.0	13.3	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (MM)	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	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6
	TOT %	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.1	2.4	.8	.0	.0	.0	3.4
	22+	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6
	TOT %	.0	.0	.0	.6	.0	.1	2.4	.8	.0	.0	.0	3.9
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.6	.0	.0	1.4	2.8	4.8	.6	.0	.0	.0	10.1
	11-21	1.7	.4	.8	1.8	1.1	3.7	7.3	3.4	.0	.0	.0	20.2
	22+	.0	.0	.0	.0	.0	1.4	3.1	.6	.0	.0	.0	5.1
	TOT %	1.7	1.0	.8	1.8	2.5	7.9	15.2	4.5	.0	.0	.0	35.4
10+	0-3	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
	4-10	1.3	.3	.4	1.3	2.0	3.1	1.4	3.5	.0	.0	.0	5.2
	11-21	2.8	1.3	.0	.0	1.3	12.6	7.9	2.8	.0	.0	.0	29.2
	22+	.0	.6	.0	.0	.0	7.6	3.7	1.7	.0	.0	.0	13.3
	TOT %	4.9	2.7	.4	1.3	3.5	25.3	12.9	8.0	.0	.0	.0	59.0
TOT OBS													178
TOT PCT		7.7	3.7	1.3	3.7	6.0	33.3	31.0	13.3	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1932-1973
(OVER-ALL) 1921-1973

APEA 0016 MAGELLAN STRAIT EAST
51.83 66.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999				
0000	.0	.0	.0	2.7	10.8	8.1	8.1	5.4	.0	8.1	43.2	56.8	37
0600	.0	.0	3.6	7.1	3.6	7.1	10.7	3.6	.0	.0	35.7	64.3	28
1200	.0	.0	.0	9.7	6.5	9.7	.0	.0	.0	.0	25.8	74.2	31
1800	.0	.0	.0	3.7	8.6	11.4	2.9	.0	2.9	.0	31.4	68.6	35
TOT	0	0	1	8	10	12	7	3	1	3	45	86	131
PCT	.0	.0	.8	6.1	7.6	9.2	5.3	2.3	.8	2.3	34.4	65.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	1.8	.0	.0	3.4	37.5	55.4	36
0600	.0	2.4	2.4	4.5	41.5	48.8	41
1200	.0	.0	.0	2.3	36.4	61.4	44
1800	.0	.0	.0	2.3	25.6	72.1	43
TOT	1	1	1	7	65	109	184
PCT	.5	.5	.5	3.8	35.3	59.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000	.0	.0	2.9	42.9	54.3	35
0600	.0	4.0	12.0	28.0	60.0	25
1200	.0	.0	10.3	17.2	72.4	29
1800	.0	.0	5.9	24.3	67.6	34
TOT	0	1	9	36	78	123
PCT	.0	.8	7.3	29.3	63.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.6	.6	.0	.0	.6	3	1.7
55/59	.0	.0	.6	1.1	2.3	4.6	2.9	.0	20	11.4
50/54	.0	.0	.6	4.0	12.0	8.6	17.7	6.9	86	49.1
45/49	.0	.0	.6	9.1	11.4	9.7	4.6	.0	62	33.4
40/44	.0	.0	.0	.0	.6	.6	1.1	4	4	2.3
TOTAL	0	0	1	11	42	44	34	23	175	100.0
PCT	.0	.0	.4	6.3	24.0	25.1	30.9	13.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0	.0	.0	.0	.4	.9	.4	.0	.0	.0
55/59	.4	2.4	.0	.0	.0	3.1	2.6	2.9	.0	.0
50/54	4.1	3.3	.9	.9	.9	13.4	18.9	7.9	.0	.0
45/49	2.4	.1	.4	2.9	4.1	14.3	8.7	2.4	.0	.0
40/44	.0	.0	.0	.0	.0	1.1	1.1	.0	.0	.0
TOTAL	7.0	2.9	1.3	3.7	5.4	34.9	31.7	13.1	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
0000	59	58	57	51	47	46	46	51.3	64
0600	59	58	54	49	43	43	43	49.2	46
1200	62	61	57	50	46	45	45	50.6	50
1800	42	61	58	53	46	44	44	52.4	47
TOT	52	60	57	51	46	44	43	50.9	207

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	7.0	21.1	22.8	36.8	12.3	77	37		
0600	.0	.0	18.6	20.9	37.2	23.3	81	43		
1200	.0	.0	26.8	31.7	29.3	12.2	78	41		
1800	.0	20.0	30.0	25.0	17.5	7.5	71	40		
TOT	0	12	43	45	56	28	77	181		

FEBRUARY

PERIOD: (PRIMARY) 1932-1973
(OVER-ALL) 1921-1973

AREA 0016 MAGELLAN STRAIT EAST
51.85 66.4W

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	TOT	% FOG	WD FOG
11/13	.0	.0	.0	.0	.6	.6	2	.0	1.2
9/10	.0	.0	.0	.6	.0	.0	1	.0	.6
7/8	.0	.0	.0	2.9	1.2	.0	7	.0	4.1
6	.0	.0	.0	.6	1.2	.0	3	.0	1.7
5	.0	.0	1.2	2.9	.6	.0	6	.0	4.7
4	.0	.0	5.8	2.9	1.2	.0	17	1.2	8.7
3	.0	.0	7.6	4.1	.6	.0	21	1.2	11.0
2	.0	.0	6.4	2.3	.6	.0	16	.6	8.7
1	.0	1.7	7.0	1.2	1.2	.0	19	.0	11.0
0	.0	4.1	4.7	2.3	.0	.0	19	.0	11.0
-1	.0	3.2	7.6	.0	.0	.0	22	.0	12.8
-2	.0	4.7	1.7	.6	.0	.0	12	.0	7.0
-3	.6	2.9	.6	.0	.0	.0	7	.0	4.1
-4	.6	3.2	1.2	.0	.0	.0	12	.0	7.0
-5	.6	2.3	.0	.0	.0	.0	5	.0	2.9
-7/-8	.6	.0	.0	.0	.0	.0	1	.0	.6
TOTAL	4	45	73	35	12	1	172	5	167
PCT	2.3	26.2	43.6	20.3	7.0	.6	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
1-2	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	2.8	.0	.0	.0	.0	2.8
3-4	.0	.0	2.4	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	2.4	.0	.0	.0	3.5	.0	.0	3.1	1.4	.0	.0	.0	4.5

HGT	E						PCT	SE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	4.3	.0	.0	.0	.0	4.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	4.3	1.4	.0	.0	.0	5.9

MARCH

PERIOD: (PRIMARY) 1932-1973
(OVER-ALL) 1921-1973

AREA 0016 MAGELLAN STRAIT EAST
51.75 66.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.3	.0	3.9	.0	.0	.0	.0	8.4	.0	.0	9.0	.0	2.6	.0	80.0
NE	2.4	.0	4.8	.0	.0	.0	.0	7.1	9.5	.0	23.8	.0	.0	.0	99.5
E	30.0	.0	.0	.0	.0	.0	.0	30.0	.0	.0	.0	.0	.0	.0	70.0
SE	14.8	.0	.0	.0	.0	.0	.0	14.8	3.7	.0	14.8	.0	.0	.0	66.7
S	3.3	.0	.0	.0	.0	.0	.0	3.3	10.0	.0	.0	.0	.0	.0	86.7
SW	1.1	2.3	.0	.0	.0	.0	.0	3.4	.6	.0	.0	.0	.0	.0	96.0
W	2.3	.0	.0	.0	.0	.0	.0	2.3	.9	1.2	2.3	.0	.0	.0	93.3
NW	7.0	.0	.0	.0	.0	.0	.0	7.0	.8	.0	9.4	.0	.0	.0	82.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	20.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0
TOT PCT	3.8	.4	1.3	.0	.0	.0	.0	5.4	1.7	.4	9.0	.0	.4	.0	87.1
TOT OBS:	240														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	2.9	.0	1.5	.0	.0	.0	.0	4.4	.0	.0	2.9	.0	.0	.0	92.6
0400	6.0	.0	1.6	.0	.0	.0	.0	7.9	1.6	1.6	8.3	.0	.0	.0	82.5
1200	1.6	.0	1.6	.0	.0	.0	.0	3.2	1.6	.0	8.1	.0	.0	.0	87.1
1800	3.8	1.9	.0	.0	.0	.0	.0	5.8	3.8	.0	1.9	.0	1.9	.0	86.5
TOT PCT	3.7	.4	1.2	.0	.0	.0	.0	5.3	1.6	.4	4.9	.0	.4	.0	87.3
TOT OBS:	245														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.8	5.8	7.6	2.1	.0	.0	16.3	13.9	15.0	21.1	16.3	19.0	15.5	19.6	12.8	21.4
NE	.0	1.0	2.8	.4	.0	.0	4.2	13.8	4.0	7.9	5.0	4.0	4.5	.0	1.8	7.1
E	.0	.3	.9	.4	.0	.0	1.0	18.0	.0	.0	.0	.0	3.5	.0	1.8	.0
SE	.0	.7	1.8	.4	.0	.0	2.7	16.1	.5	.0	.6	4.0	8.5	.0	2.4	.0
S	.0	2.9	1.7	1.6	.0	.0	6.1	13.7	9.5	5.3	11.3	2.0	1.5	7.1	7.3	.0
SW	.2	2.1	8.5	9.5	1.0	.0	18.3	19.7	20.5	15.8	23.8	11.0	16.5	17.9	17.1	21.4
W	.8	7.8	13.5	12.6	.9	.0	39.3	18.8	35.0	42.1	23.8	44.0	34.0	46.4	37.8	33.9
NW	.0	2.8	4.1	2.1	.1	.0	14.0	13.9	15.5	2.6	11.9	17.0	16.0	8.9	16.5	16.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0	.0	.0	.0	.0	.0	2.0	.0	.0	3.3	7.5	.0	.0	.0	2.4	.0
TOT OBS	9	99	114	66	5	0	253	16.9	30	19	40	25	30	14	41	14
TOT PCT	3.6	23.3	45.1	24.1	2.0	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	2.2	7.6	6.1	.4	.0	16.3	13.9	16.7	16.9	16.4	15.0
NE	.2	1.4	2.6	.0	.0	4.2	13.8	5.1	4.6	3.5	3.2
E	.0	.6	.0	.0	.0	1.0	18.0	.0	.0	2.7	1.4
SE	.1	1.4	1.2	.0	.0	2.7	16.1	.4	1.9	6.6	1.8
S	1.9	2.7	.7	.9	.0	6.1	13.7	8.3	7.7	2.7	5.5
SW	1.4	6.6	6.4	3.4	.5	18.3	19.7	19.2	18.8	16.8	14.2
W	2.2	10.8	17.9	4.3	.3	35.5	18.8	37.0	31.5	36.7	34.8
NW	.8	7.7	4.2	1.3	.0	14.0	13.9	12.0	13.8	14.5	16.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0	.0	.0	.0	.0	2.0	.0	1.4	4.6	.0	1.8
TOT OBS	27	98	99	27	2	253	16.9	69	65	64	55
TOT PCT	10.7	38.7	39.1	10.7	.8	100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1932-1973
(COVER-ALL) 1921-1973

MARCH

AREA 0010 MAGELLAN STRAIT EAST
91.75 00.24

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (CPT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	1.4	2.9	20.0	43.3	23.2	4.3	.0	16.8	100.0	69
0600	0.0	.0	20.0	38.3	36.9	.0	.0	17.9	100.0	67
1200	.0	.0	20.0	40.9	26.0	.0	.0	16.5	100.0	64
1800	1.8	3.0	21.8	32.7	16.4	3.0	.0	16.1	100.0	59
TOT	3	0	59	114	60	3	0	16.9		233
PCT	2.0	1.0	23.3	45.1	26.1	2.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 E CUSC	TOTAL CUSC	MEAN CLOUD COVER
NE	.0	.0	.9	1.7	2.6	5.7
E	.0	.0	.0	.0	.0	0.0
SE	.0	.0	2.1	1.4	3.5	9.9
S	2.0	.0	4.1	.9	7.0	6.3
SW	0.4	2.9	6.9	.0	10.2	9.5
W	10.7	11.8	10.4	2.7	35.6	9.9
NW	2.0	1.1	0.4	0.7	4.2	9.7
VAR	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	0.2
TOT CUSC	44	20	60	31	155	6.8
TOT PCT	27.0	17.2	36.0	19.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, MM >478) AND OCCURRENCE OF MM <478 BY WIND DIRECTION

WIND DIR	000	100	300	600	1000	2000	3500	5000	6500	8000	9000	MM <478 ANY HGT	TOTAL OBS
N	.0	.4	1.1	.0	2.3	1.7	.0	1.7	1.1	.0	.0	3.4	69
NE	.0	.0	.2	.0	.2	.0	.0	.2	.2	.0	.0	1.7	67
E	.0	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.0	64
SE	.0	.0	.2	.7	1.2	.0	.7	.0	.0	.0	.0	1.8	59
S	.0	.0	.9	.9	1.1	.0	1.7	.0	.0	.0	.0	3.1	64
SW	.0	.0	.0	.0	3.6	2.0	.0	.0	.0	.0	.0	13.0	64
W	.0	.0	.0	.6	1.7	1.1	.0	.9	.0	1.8	.0	20.8	64
NW	.0	.6	.0	.6	.8	.2	3.1	.9	.0	.0	.0	6.4	64
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	64
TOT CUSC	44	20	60	31	155	8	8	2	4	105		100	100.0
TOT PCT	1.7	1.8	2.9	11.7	6.1	4.0	3.7	1.2	2.9	64.4		100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (MM >478) AND VSBY (MM)

CEILING (FEET)	VSBY (MM)								
	>10	>5	>2	>1	>1/2	>1/4	>5000	>0	
>9900	2.4	2.4	3.0	3.0	3.0	3.0	3.0	3.0	
>9500	4.8	4.8	6.0	6.0	6.0	6.0	6.0	6.0	
>9000	8.4	10.2	11.4	11.4	11.4	11.4	11.4	11.4	
>8500	12.7	16.5	17.3	17.3	17.3	17.3	17.3	17.3	
>8000	19.0	27.7	28.9	28.9	28.9	28.9	28.9	28.9	
>7500	21.1	30.1	31.3	31.3	31.3	31.3	31.3	31.3	
>7000	22.3	31.3	32.1	32.1	32.1	32.1	32.1	32.1	
>6500	22.3	31.3	32.3	32.3	32.3	32.3	32.3	32.3	
>6000	22.3	31.3	34.3	34.3	34.3	34.3	34.3	34.3	
TOTAL	37	37	37	37	37	37	37	37	

TOTAL NUMBER OF OBS: 100

PCT FREQ MM <478: 65.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL CUSC
19.7	14.0	12.0	11.0	8.4	3.9	0.4	10.1	14.0	.0	170

PERIOD: (PRIMARY) 1932-1973
(OVER-ALL) 1921-1973

MARCH

AREA 0016 MAGELLAN STRAIT EAST
51.75 66.2W

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	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
	ND PCP	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.2	.2	.0	.0	.0	.0	.4	.0	.0	.0	.8	
1/2<1	PCP	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	ND PCP	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
	TOT %	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	ND PCP	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	ND PCP	1.2	.1	.0	.0	.0	.6	.2	.4	.0	.0	2.5	
	TOT %	1.2	.1	.0	.0	.0	.6	.2	.4	.0	.0	2.5	
5<10	PCP	.7	.0	.0	.0	.2	.0	.0	.5	.0	.0	.4	2.9
	ND PCP	5.6	1.6	.3	.5	1.8	2.3	8.9	4.3	.0	.0	4	25.7
	TOT %	6.3	1.6	.3	.5	2.0	3.0	8.9	4.9	.0	.0	8	28.3
10+	PCP	.4	.1	.3	.4	.0	.0	.0	.4	.0	.0	1.7	
	ND PCP	6.5	1.6	.0	1.9	4.3	15.1	26.1	7.8	.0	1.3	64.6	
	TOT %	7.0	1.7	.3	2.3	4.3	15.1	26.1	8.2	.0	1.3	66.2	
TOT OBS												237	
TOT PCT		16.1	4.2	.6	2.8	6.3	18.7	35.5	13.5	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	11-21	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.2	.0	.0	.0	.0	.0	.4	.0	.0	.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	11-21	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
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	.0	
	11-21	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
2<5	0-3	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.4	
	4-10	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
	11-21	1.2	.1	.0	.0	.0	.0	.0	.4	.0	.0	1.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.2	.1	.0	.0	.0	.6	.2	.4	.0	.0	2.5	
5<10	0-3	.4	.0	.0	.0	.0	.0	.4	.0	.0	.8	1.7	
	4-10	2.4	.2	.3	.1	.9	.6	2.1	.7	.0	.0	7.6	
	11-21	2.5	.8	.0	.4	.8	1.3	4.2	3.4	.0	.0	13.5	
	22+	.9	.4	.0	.0	.2	1.1	2.1	.7	.0	.0	5.5	
	TOT %	6.3	1.6	.3	.5	2.0	3.0	8.9	4.9	.0	.0	8	28.3
10+	0-3	.4	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.7	
	4-10	2.5	.7	.0	.6	1.9	.7	3.9	2.2	.0	.0	12.7	
	11-21	2.7	.9	.3	1.3	.9	7.4	10.2	4.4	.0	.0	28.3	
	22+	1.3	.0	.0	.4	1.5	7.0	11.9	1.6	.0	.0	23.6	
	TOT %	7.0	1.7	.3	2.3	4.3	15.1	26.1	8.2	.0	1.3	66.2	
TOT OBS												237	
TOT PCT		16.1	4.2	.6	2.8	6.3	18.7	35.5	13.5	.0	2.1	100.0	

PERIOD: PRIMARY: 1939-1973
 COVER-ALL: 1921-1973

4290-

AREA CODE: MADISON STR ST POST
 41.75 66.24

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) (NH >478) AND OCCURRENCE OF NH <578 BY HOUR

HR (GMT)	000	100	300	500	1000	1500	2000	3000	4000	5000	6000	7000	TOTAL	NH <578 ANY HGT	TOTAL OBS
0000	.0	2.0	2.5	2.5	7.5	7.5	2.0	.0	.0	.0	.0	.0	32.5	67.5	40
0600	.0	2.2	.0	4.6	13.6	4.4	8.0	4.4	.0	.0	.0	.0	42.2	57.8	43
1200	.0	.0	2.3	2.3	11.4	4.3	4.3	4.3	2.3	.0	.0	.0	31.8	68.2	44
1800	.0	.0	1.4	.0	9.5	7.1	2.4	4.8	2.4	.0	.0	.0	28.6	71.4	42
TOT	.0	.8	3	4	19	10	8	6	2	4	4	4	98	113	171
PCT	.0	1.2	1.8	2.3	11.1	5.8	4.7	3.5	1.7	2.7	2.7	2.7	33.9	66.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL	PCT
0000	.0	1.5	1.4	1.5	32.4	63.2	68	68
0600	1.6	.0	.0	.0	25.5	62.9	67	67
1200	1.6	3.3	.0	1.6	26.2	67.2	61	61
1800	.0	2.0	.0	7.8	19.7	74.5	91	91
TOT	.0	4	1	6	68	161	242	242
PCT	.0	1.7	.4	2.5	28.1	66.3	100.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET) (NH >478) BY HOUR

HR (GMT)	<150	<600	<1000	1000+	NH <578 AND 5+	TOTAL
0000	.0	5.1	7.7	25.6	66.7	39
0600	.0	2.4	7.1	34.7	57.1	42
1200	.0	2.3	6.8	25.0	68.2	44
1800	.0	2.4	4.9	24.4	70.7	41
TOT	.0	9	11	46	109	166
PCT	.0	3.0	6.8	27.7	65.7	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	PCT
33/59	.0	.0	.4	.0	.0	3.4	2.1	.0	10	6.8
39/54	.0	.0	.0	1.7	5.1	11.5	27.0	8.1	108	46.0
45/49	.0	.0	.4	3.5	8.5	16.6	10.8	.0	98	41.7
49/44	.0	.0	.0	.0	.0	3.0	2.1	.4	13	3.5
TOTAL	.0	.0	1	6	25	62	96	43	235	100.0
PCT	.0	.0	.4	2.6	10.6	26.4	40.9	19.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CAL
1.4	.1	.0	.1	.3	.3	2.0	2.6	.0	.0
8.9	2.4	.7	1.0	3.0	6.2	14.9	7.1	.0	1.7
4.7	1.5	.3	1.4	2.9	10.5	19.0	5.0	.0	.4
.0	.0	.0	.0	.2	1.5	3.8	.0	.0	.0
15.0	4.0	1.1	2.4	6.4	18.5	35.7	14.7	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
0000	58	57	55	50	44	42	47	50.0	68
0600	56	55	53	49	43	40	40	48.6	70
1200	55	54	54	50	45	40	40	49.6	69
1800	59	58	56	50	44	41	41	50.4	56
TOT	59	58	55	50	44	41	40	49.6	263

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
0000	.0	3.1	17.2	34.4	29.7	13.6	7.9	64	64	
0600	.0	.0	8.5	14.3	35.6	20.6	84	63	63	
1200	.0	1.6	1.6	28.6	49.7	19.0	83	63	63	
1800	.0	8.0	14.0	28.0	30.0	20.0	79	50	50	
TOT	0	7	25	63	100	45	81	240	240	

MARCH

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1921-1973

AREA 0016 MAGELLAN STRAIT EAST
51.7S 66.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET>NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HR	000	100	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	.0	2.5	2.5	2.5	7.5	7.5	2.5	.0	.0	7.5	32.5	67.5	40
0600	.0	2.2	.0	4.4	15.6	4.4	8.9	4.4	.0	2.2	42.2	57.8	45
1200	.0	.0	2.3	2.3	11.4	4.5	4.5	4.5	2.3	.0	31.8	68.2	44
1800	.0	.0	2.4	.0	9.5	7.1	2.4	4.8	2.4	.0	28.6	71.4	42
TOT	0	2	3	4	19	10	8	6	2	4	58	113	171
PCT	.0	1.2	1.6	2.3	11.1	5.8	4.7	3.3	1.2	2.3	33.9	66.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000	.0	1.5	1.4	1.5	32.4	63.2	68
0600	1.6	.0	.0	.0	35.5	62.9	62
1200	1.6	3.3	.0	1.6	26.2	67.2	61
1800	.0	2.0	.0	7.8	15.7	74.5	51
TOT	2	4	1	6	68	161	242
PCT	.8	1.7	.4	2.5	28.1	66.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET>NH >4/8) BY HOUR

HR	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000	.0	5.1	7.7	25.6	66.7	39
0600	.0	2.4	7.1	35.7	57.1	42
1200	.0	2.3	6.8	25.0	68.2	44
1800	.0	2.4	4.9	24.4	70.7	41
TOT	0	9	11	46	109	166
PCT	.0	3.0	6.8	27.7	68.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.4	.9	.0	3.4	2.1	.0	16	6.8
50/54	.0	.0	.0	1.3	5.1	11.5	20.0	8.1	108	46.0
45/49	.0	.0	.0	.4	5.5	8.5	14.6	10.6	98	41.7
40/44	.0	.0	.0	.0	3.0	2.1	.4	.0	13	5.5
TOTAL	0	0	1	6	28	62	96	48	235	100.0
PCT	.0	.0	.4	2.6	10.8	26.4	40.9	19.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CAL 4
55/59	1.6	.1	.0	.1	.3	.3	2.0	2.6	.0	.0
50/54	4.9	2.4	.7	1.0	3.0	6.2	14.9	7.1	.0	1.7
45/49	4.7	1.9	.3	1.4	2.9	10.5	15.0	5.0	.0	.6
40/44	.0	.0	.0	.0	.2	1.5	3.8	.0	.0	.0
TOTAL	15.0	4.0	1.1	2.4	6.4	18.5	35.7	14.7	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	58	57	55	50	44	42	42	50.0	68
0600	56	55	53	49	43	40	40	48.6	70
1200	55	54	54	50	45	40	40	47.6	69
1800	58	58	50	50	44	41	41	50.4	56
TOT	59	58	55	50	44	41	40	49.6	263

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	3.1	17.2	34.4	29.7	15.6	79	68
0600	.0	.0	9.5	14.3	55.6	20.6	54	63
1200	.0	1.6	1.6	28.6	49.2	19.0	53	63
1800	.0	8.0	14.0	28.0	30.0	20.0	79	50
TOT	0	7	25	63	100	45	81	240

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1921-1973

APRIL

AREA 0016 MAGELLAN STRAIT EAST
51.4S 65.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	POG WD PCPN PAST HR	SMOKE MAZE	SPRAY BLWG	DUST SIG	NO WEA
N	.0	.0	7.3	.0	.0	.0	.0	7.3	.0	.0	7.3	.0	.0	.0	.0	85.5
NE	33.3	.0	.0	.0	.0	.0	.0	33.3	.0	.0	16.7	.0	.0	.0	.0	50.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0
SE	.0	.0	19.4	.0	.0	.0	.0	19.4	.0	.0	7.7	.0	.0	.0	.0	76.9
S	.0	4.3	8.7	.0	4.3	.0	.0	13.0	.0	.0	4.3	.0	.0	.0	.0	82.6
SW	2.6	1.3	1.3	.0	3.8	.0	.0	7.7	.0	.0	3.1	.0	.0	.0	.0	87.2
W	.0	2.9	3.8	.0	.0	.0	.0	6.4	.0	.0	6.4	.0	.0	.0	.0	87.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	.0	.0	.0	.0	92.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.1	44.4	11.1	.0	.0	.0	.0	59.6	.0	.0	.0	.0	.0	.0	.0	44.4
TOT PCT	2.1	4.1	4.1	.0	1.4	.0	.0	10.3	.0	.0	7.6	.0	.0	.0	.0	82.1
TOT OBS:	145															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	POG WD PCPN PAST HR	SMOKE MAZE	SPRAY BLWG	DUST SIG	NO WEA
0000	2.1	6.4	4.3	.0	4.3	.0	.0	14.9	.0	.0	8.5	.0	.0	.0	.0	76.6
0400	2.9	.0	3.8	.0	.0	.0	.0	8.8	.0	.0	11.8	.0	.0	.0	.0	79.4
1215	.0	3.4	2.7	.0	.0	.0	.0	8.1	.0	.0	3.4	.0	.0	.0	.0	86.3
1821	6.9	3.4	3.4	.0	.0	.0	.0	10.3	.0	.0	3.4	.0	.0	.0	.0	86.2
TOT PCT	2.7	4.1	4.1	.0	1.4	.0	.0	10.9	.0	.0	7.5	.0	.0	.0	.0	81.6
TOT OBS:	147															

TABLE 3

PERCENT-FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT PRG	MEAN SPD	HOUR (GMT)							
	0-5	6-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.3	.0	8.0	1.2	.0	.0	10.1	19.2	14.3	.0	12.5	7.7	5.7	11.1	10.2	17.9	
NE	1.2	1.8	1.3	.0	.0	.0	4.2	8.9	6.4	3.1	.0	.0	2.9	2.8	9.1	7.1	
E	.0	2.4	3.1	.0	.0	.0	8.3	12.6	3.3	19.6	8.3	15.4	7.9	19.4	4.3	14.3	
SE	1.2	3.2	.6	.0	.0	.0	3.0	6.9	3.3	.0	.0	.0	2.9	22.2	6.8	14.3	
S	.6	3.8	2.9	.0	.0	.0	7.3	9.2	7.2	9.4	9.4	7.7	3.7	11.1	9.1	.0	
SW	.6	3.0	8.9	3.1	3.8	.0	23.1	19.3	26.3	12.8	29.2	18.4	27.1	11.1	27.3	14.3	
W	2.9	6.4	7.3	6.0	.6	.6	23.8	16.4	22.4	35.7	32.3	26.9	28.6	.0	17.0	10.7	
NW	.3	4.7	6.1	1.8	.0	.0	12.9	12.9	9.9	17.1	4.2	19.2	18.6	11.1	11.4	14.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.3	.0	.0	.0	.0	.0	3.3	.0	2.8	6.3	4.2	7.7	5.7	11.1	6.3	7.1	
TOT OBS	21	48	69	23	7	1	171	14.0	38	11	26	13	33	9	22	14	
TOT PCT	12.3	28.1	40.4	14.6	4.1	.6	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT PRG	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				03	09	15	21
N	.6	6.7	2.2	.6	.0	10.1	15.2	10.2	10.8	6.8	12.2
NE	1.3	2.2	.6	.0	.0	4.2	8.9	3.8	.0	2.8	8.3
E	2.0	4.3	1.8	.0	.0	8.3	12.6	8.3	10.8	6.3	8.3
SE	2.6	2.3	.0	.0	.0	3.0	6.9	3.7	.0	6.8	9.7
S	3.2	2.8	1.3	.0	.0	7.3	9.2	7.9	8.8	6.8	5.6
SW	4.1	6.7	3.4	3.7	1.2	23.1	19.3	22.2	29.3	23.9	22.2
W	7.0	3.8	6.4	3.9	.6	23.8	16.4	26.4	30.9	22.7	14.6
NW	2.3	7.3	2.8	.3	.0	12.9	12.9	12.0	9.3	17.0	12.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3	.0	.0	.0	.0	3.3	.0	3.7	5.4	6.8	3.6
TOT OBS	49	66	35	18	3	171	14.0	34	37	44	36
TOT PCT	28.7	38.6	20.5	10.5	1.8	100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1921-1973

AREA 0016 MAGELLAN STRAIT EAST
91.45 69.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4R+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	3.7	9.3	27.9	40.7	13.0	3.7	1.9	13.9	100.0	34
0600Z	3.4	2.7	35.1	43.2	13.3	.0	.0	13.0	100.0	37
1200Z	6.8	6.9	27.3	36.4	13.9	6.8	.0	14.1	100.0	44
1800Z	5.6	8.3	22.2	41.7	16.7	5.6	.0	13.1	100.0	36
TOT	9	12	48	69	23	7	1	14.0		171
PCT	5.3	7.0	28.1	40.4	14.6	4.1	.6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	.7	.0	.0	1.4		3.6
E	.0	.0	.0	.0		.0
SE	.0	.0	.7	.0		6.0
S	3.2	1.1	3.3	2.1		4.3
SW	13.4	9.3	6.0	6.3		3.8
W	15.1	.7	7.7	2.1		3.1
NW	4.2	.7	1.8	3.9		4.4
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	2.8	71	8.0
TOT OBS	27	10	16	18		4.2
TOT PCT	26.0	14.1	22.5	23.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.4	.0	1.4	.0	3.9	1.4	.0	.0	.0	.0	4.9	
NE	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.7	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
S	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	7.7	
SW	.0	.0	.0	1.4	1.4	.0	4.2	3.5	.0	.0	24.6	
W	.0	.0	.0	.0	3.2	.7	.7	.7	.0	.0	20.4	
NW	.0	.0	.0	.0	1.4	.7	1.4	.0	.0	.0	7.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.4	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	
TOT OBS	2	0	1	2	7	3	4	3	0	0	47	71
TOT PCT	2.8	.0	1.4	2.8	9.9	4.2	8.5	4.2	.0	.0	66.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)			VSBY (NM)			VSBY (NM)		
	>10	>3	>2	>1	>1/2	>1/4	>3000	>0	>0
>4500	.0	.0	.0	.0	.0	.0	.0	.0	.0
>4000	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
>3500	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
>3000	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9
>2500	22.3	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8
>2000	23.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
>1500	23.9	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
>1000	23.9	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
>500	23.9	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
>150	23.9	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
>0	23.9	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
TOTAL	17	21	22	22	22	24	24	24	24

TOTAL NUMBER OF OBS: 71

PCT FREQ NH <5/8: 66.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
20.0	21.3	16.0	4.0	2.7	10.7	2.7	8.0	13.3	1.3	73

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1921-1973

APRIL

AREA 0016 MAGELLAN STRAIT EAST
51.4S 69.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.7	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	1.4
	TOT %	.7	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	1.4
1/2<1	PCP	.0	.7	.0	.4	.4	.0	.0	.0	.0	.0	.0	1.4
	NO PCP	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	1.4
	TOT %	.0	.7	.7	.4	.4	.0	.7	.0	.0	.0	.0	2.8
1<2	PCP	.0	.0	.0	.0	.0	.4	1.1	.0	.0	.0	.0	1.4
	NO PCP	.0	.0	.0	.0	.0	.0	.4	1.1	.0	.0	.0	1.4
	TOT %	.0	.0	.0	.0	.0	.4	1.4	1.1	.0	.0	.0	2.8
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.7	1.4	.7	.7	.0	.0	.0	.7	4.2
	TOT %	.0	.0	.0	.7	1.4	.7	.7	.0	.0	.0	.7	4.2
5<10	PCP	.7	.0	.0	.0	.4	1.1	.7	.0	.0	2.1	.0	4.9
	NO PCP	3.1	1.1	1.1	2.8	1.4	7.7	7.4	8.4	.0	1.4	36.8	
	TOT %	3.8	1.1	1.1	2.8	1.8	8.8	8.1	8.4	.0	3.5	41.7	
10+	PCP	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7
	NO PCP	3.2	.4	.0	.0	3.9	16.9	16.7	4.8	.0	.7	46.3	
	TOT %	3.2	.4	.0	.0	3.9	17.6	16.7	4.8	.0	.7	47.0	
TOT OBS													142
TOT PCT		9.7	2.1	1.8	4.2	7.7	27.8	27.6	14.4	.0	4.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (MM)	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	.0
	4-10	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.7
	11-21	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.7	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	1.4
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.7	.7	.3	.3	.0	.7	.0	.0	.0	.0	2.8
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.7	.7	.3	.3	.0	.7	.0	.0	.0	.0	2.8
1<2	0-3	.0	.0	.0	.0	.0	.3	.7	.0	.0	.0	.0	.7
	4-10	.0	.0	.0	.0	.0	.3	.7	.3	.0	.0	.0	1.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
	22+	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.0	.0	.0	.0	.3	1.4	1.0	.0	.0	.0	2.8
1<2	0-3	.0	.0	.0	.0	.0	.7	.7	.0	.0	.0	.7	2.1
	4-10	.0	.0	.0	.7	1.4	.0	.0	.0	.0	.0	.0	2.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.7	1.4	.7	.7	.0	.0	.0	.7	4.2
5<10	0-3	.3	.7	.0	1.4	.7	.0	.0	.3	.0	3.5	.0	7.9
	4-10	.0	.3	1.0	.7	.7	2.1	1.7	3.1	.0	.0	.0	9.8
	11-21	4.7	.0	.0	.7	.3	2.8	2.1	3.2	.0	.0	.0	16.0
	22+	.7	.0	.0	.0	.0	3.8	4.2	1.7	.0	.0	.0	10.3
	TOT %	5.8	1.0	1.0	2.8	1.7	8.7	8.0	8.0	.0	3.5	.0	41.3
10+	0-3	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.7	.0	2.1
	4-10	.7	.3	.0	.0	1.4	3.1	4.2	1.4	.0	.0	.0	11.2
	11-21	1.7	.0	.0	.0	2.1	7.9	6.1	3.0	.0	.0	.0	22.4
	22+	.7	.0	.0	.0	.0	6.3	4.4	.3	.0	.0	.0	11.9
	TOT %	3.1	.3	.0	.0	4.5	17.3	16.8	4.7	.0	.0	.7	47.6
TOT OBS													142
TOT PCT		9.6	2.1	1.7	4.2	8.4	37.3	27.4	16.3	.0	4.9	100.0	

APRIL

PERIOD: (PRIMARY) 1929-1975
(OVER-ALL) 1921-1975

AREA 0010 HABELIAN STRAIT EAST
31.4S 65.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) (MH >4/8) AND OCCURRENCE OF MH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	MH <5/8 ANY HGT	TOTAL OBS
0000Z	10.3	.0	.0	3.3	.0	.0	10.3	10.3	.0	.0	30.8	63.2	19
0600Z	.0	.0	3.9	.0	3.9	3.9	3.9	.0	.0	.0	23.5	76.5	17
1201Z	.0	.0	.0	.0	11.0	.0	11.0	3.9	.0	.0	25.9	70.0	17
1802Z	.0	.0	.0	3.3	21.1	10.3	3.3	.0	.0	.0	42.1	57.9	19
TOT	2	0	1	2	7	2	6	3	0	0	24	43	72
PCT	2.8	.0	1.4	2.8	9.7	4.2	8.3	4.2	.0	.0	33.3	66.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (MH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000Z	2.1	4.3	2.1	6.4	46.8	38.3	47
0600Z	.0	2.9	3.0	2.9	38.2	36.0	34
1201Z	.0	.0	2.0	8.3	38.9	30.0	36
1802Z	3.6	3.6	.0	.0	38.7	37.1	28
TOT	2	4	4	7	39	69	143
PCT	1.4	2.8	2.8	4.8	40.7	47.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (MH) AND/OR CEILING HGT (FEET) (MH >4/8) BY HOUR

HOUR (GMT)	<150	<600	<1000	1000+	MH <5/8 AND 5+	TOTAL OBS
0000Z	10.3	10.3	13.6	21.1	63.2	19
0600Z	.0	6.3	6.3	18.8	75.0	16
1201Z	.0	.0	.0	29.4	70.6	17
1802Z	.0	10.3	10.3	36.6	52.6	19
TOT	2	3	6	19	46	71
PCT	2.8	7.0	8.3	26.8	64.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
29/29	.0	.0	.0	.0	1.3	1.3	.0	.0	4	2.6
30/30	.0	.0	.0	.0	4.3	3.2	7.7	1.3	27	17.4
40/40	.0	.0	.0	2.0	3.0	14.0	23.0	23.0	112	72.9
40/40	.0	.0	.0	1.0	3.2	.0	.0	.0	9	5.8
29/29	.0	.0	.0	.0	.0	.0	1.3	.0	2	1.3
TOTAL	0	0	0	3	19	28	28	41	195	100.0
PCT	.0	.0	.0	1.7	12.3	12.6	23.5	20.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
29/29	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30/30	2.0	.0	.0	1.3	.0	4.3	4.3	1.0	.0	.0
40/40	3.0	2.4	6.0	3.0	6.1	16.3	17.0	10.0	.0	3.0
40/40	.0	.3	1.0	.0	.3	1.3	2.3	1.0	.0	.0
29/29	.0	.0	.0	.0	.3	1.0	.0	.0	.0	.0
TOTAL	9.0	3.4	8.0	3.2	7.1	23.2	23.0	13.2	.0	4.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	55	34	32	48	48	36	36	47.0	36
0600Z	51	30	30	48	42	42	42	47.1	35
1201Z	55	34	33	48	44	43	43	47.9	47
1802Z	37	36	32	48	46	45	45	48.9	39
TOT	57	35	32	48	44	37	36	47.8	180

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	6.0	4.0	22.0	30.0	36.0	64	30		30
0600Z	.0	2.7	17.3	24.3	48.3	18.9	82	37		37
1201Z	.0	2.6	16.3	23.6	43.6	17.9	81	39		39
1802Z	.0	.0	23.3	16.7	30.0	30.0	82	30		30
TOT	0	3	19	35	36	41	82	136		136

APRIL

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1921-1973

AREA 0010 MAGELLAN STRAIT EAST
91.45 69.5W

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	33 36	37 40	41 44	43 46	49 52	53 56	57 60	TOT	W FOG	MO FOG
7/8	.0	.0	.0	.7	.0	.0	.7	2	.0	1.4
6	.0	.0	.0	.0	.0	1.4	.0	2	.0	1.4
5	.0	.0	.0	.0	.7	1.4	.0	3	.0	2.1
4	.0	.0	.0	.0	2.8	.7	.0	5	.0	3.5
3	.0	.0	.0	.0	5.0	.7	.0	8	.0	5.7
2	.0	.0	.0	2.1	5.7	.0	.0	11	.0	7.8
1	.0	.0	.0	11.9	5.7	.0	.0	24	2.1	14.9
0	.0	.0	.0	19.4	5.0	.0	.0	29	1.4	19.1
-1	.0	.0	.7	9.1	2.8	.0	.0	18	1.4	11.2
-2	.0	.0	.7	8.5	2.1	.0	.0	16	.7	10.6
-3	.0	.0	3.3	4.3	.0	.0	.0	11	.7	7.1
-4	.0	.7	.0	1.4	2.1	.0	.0	6	.7	3.5
-5	.0	.0	.0	1.4	.0	.0	.0	2	.0	1.4
-7/-8	.0	.7	.0	.0	.0	.0	.0	1	.0	.7
-9/-10	.7	.0	.7	.0	.0	.0	.0	2	.0	1.4
-11/-13	.0	.0	.0	.7	.0	.0	.0	1	.0	.7
TOTAL	1	2	8	78	43	6	1	141	10	131
PCT	.7	1.4	5.7	59.3	31.9	4.3	.7	100.0	7.1	92.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HEG	N							NE						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.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	9.3	.0	.0	.0	9.7	.0	4.8	.0	.0	.0	.0	4.8
5-6	.0	.0	14.3	.0	.0	.0	14.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
46-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
51-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.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	25.8	.0	.0	.0	23.8	.0	4.8	.0	.0	.0	.0	4.8

HEG	E							SE						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.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	4.8	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.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
41-45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
46-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
51-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.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	4.8	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1973

APRIL

AREA 0016 MAGELLAN STRAIT EAST
51.45 65.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	4.8	
3-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-8	.0	.0	7.1	.0	.0	.0	.0	7.1	.0	.0	2.4	4.8	.0	.0	7.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	4.8	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	7.1	.0	.0	.0	.0	7.1	.0	4.8	2.4	9.2	.0	.0	16.7	

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	4.8	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	4.8	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	
3-6	.0	4.8	.0	.0	.0	.0	.0	4.8	.0	4.8	.0	.0	.0	.0	.0	4.8	
5-8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	4.8	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	4.8	3.6	4.8	.0	13.1	13.1	.0	.0	.0	1.2	.0	.0	.0	1.2	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.8	4.8	14.3	3.6	4.8	.0	32.1	32.1	.0	4.8	.0	1.2	.0	.0	.0	95.2	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.5	.0	.0	.0	.0	.0	9.5	
1-2	.0	9.5	4.8	.0	.0	.0	14.3	
3-6	.0	14.3	9.5	.0	.0	.0	23.8	
5-8	.0	.0	23.8	4.8	.0	.0	28.6	
7	.0	.0	4.8	4.8	.0	.0	9.5	
8-9	.0	.0	4.8	4.8	4.8	.0	14.3	
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	
23-23	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	23.8	47.6	14.3	4.8	.0	100.0	21

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-46	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
49	.0	8.7	10.9	8.7	4.3	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	4
6-7	.0	.0	4.3	13.0	4.3	2.2	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	6
8-9	.0	.0	.0	.0	8.7	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	10
10-11	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
12-13	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
3-17	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
INDET	2.2	.0	2.2	2.2	2.2	2.2	4	2.2	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8
TOTAL	1	4	9	12	9	3	4	1	2	0	1	0	0	0	0	0	0	0	0	0	46	6
PCT	2.2	8.7	19.6	26.1	19.6	6.5	8.7	2.2	4.3	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1929-1972
(OVER-ALL) 1929-1972

MAY

AREA 0016 MAGELLAN STRAIT EAST
51.25 65.74

TABLE 17

PCT FRPG OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIP	37 40	41 44	43 48	49 52	53 56	57 60	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	1.0	1	.0	1.0
7/8	.0	.0	1.0	.0	.0	.0	1	.0	1.0
6	.0	.0	.0	1.0	1.0	.0	2	.0	2.0
5	.0	.0	.0	1.0	.0	.0	1	.0	1.0
4	.0	1.0	1.0	4.9	.0	.0	7	1.0	3.9
3	.0	2.0	2.9	2.9	.0	.0	8	.0	7.8
2	.0	2.0	3.9	1.0	.0	.0	7	2.0	4.9
1	1.0	3.9	8.8	2.9	.0	.0	17	3.9	12.7
0	.0	.0	11.8	2.0	.0	.0	14	2.0	11.8
-1	.0	3.9	6.9	.0	.0	.0	11	1.9	9.8
-2	2.0	4.9	3.9	1.0	.0	.0	12	1.0	10.0
-3	1.0	3.9	1.0	.0	.0	.0	6	.0	3.9
-4	1.0	2.9	.0	.0	.0	.0	4	1.0	2.9
-5	4.9	2.9	.0	.0	.0	.0	8	.0	7.8
-6	1.0	1.0	1.0	.0	.0	.0	3	.0	2.9
TOTAL	11	20	43	17	1	1	102	11.8	68.2
PCT	10.8	20.4	42.2	16.7	1.0	1.0	100.0	11.8	68.2

PERIOD: (OVER-ALL) 1949-1972

TABLE 18

PCT FRPG OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.0	3.3	3.3	.0	.0	.0	10.8	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.3	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	3.3	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.8	10.8	.0	.0	.0	26.3	.0	.0	.0	.0	.0	.0	.0

MGT	SE						PCT	S						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.0	3.3	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0

PERIOD: (PRIMARY) 1929-1972
(OVER-ALL) 1923-1972

MAY

AREA 0016 MAGELLAN STRAIT EAST
31.2S 63.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)							MEAN	PCT FREQ	TOTAL OBS
	CALM	1-3	4-10	11-17	22-33	34-47	48+			
0000Z	.0	9.4	23.0	46.9	18.8	.0	.0	14.7	100.0	32
0400Z	4.3	.0	29.1	24.8	13.0	8.7	.0	15.3	100.0	23
1201Z	.0	.0	46.2	24.6	15.4	3.8	.0	13.4	100.0	26
1801Z	.0	.0	43.5	26.1	30.4	.0	.0	15.7	100.0	23
TOT	1	2	39	38	20	3	0	14.7		104
PCT	1.0	2.0	37.5	36.5	19.2	2.9	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	PCT FREQ				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & 9		
N	5.3	1.8	3.3	3.3	3.1	3.1
NE	.0	.0	1.8	.0	7.0	7.0
E	.0	.0	.9	3.3	7.0	7.0
SE	.0	.0	6.1	4.0	7.0	7.0
S	3.1	.0	3.3	11.8	4.2	4.2
SW	1.8	4.4	3.3	6.1	3.3	3.3
W	7.9	2.6	7.9	4.0	4.1	4.1
NW	3.1	1.8	3.1	2.2	4.3	4.3
VAR	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0
TOT OBS	12	6	17	22	37	3.4
TOT PCT	21.1	10.8	29.8	36.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT./M)
AND OCCURRENCE OF NH (<5/8) BY WIND DIRECTION

WIND DIR	PCT FREQ											NH <5/8	TOTAL OBS
	000	150	300	400	1000	2000	3000	5000	6000	8000+	ANY		
N	.0	.0	.0	.0	1.8	.0	3.3	.0	.0	.0	.0	.0	10.3
NE	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	1.8	.0	2.6	.0	.0	.0	.0	.0	.0
SE	.4	.0	.0	.0	2.6	.9	3.3	1.8	.0	.0	.0	.0	1.8
S	1.3	.0	1.8	1.8	.0	4.8	1.3	.0	.0	.0	.0	.0	6.6
SW	.0	.0	.0	1.8	3.3	2.2	2.2	.0	.0	.0	.0	.0	6.1
W	.0	.0	.0	1.3	3.3	.0	.0	1.3	.0	.0	.0	.0	14.9
NW	.0	.0	.0	.4	3.3	.0	.0	.4	.0	.0	.0	.0	3.7
VAR	.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
TOT OBS	1	0	1	3	12	6	6	1	1	0	0	0	28
TOT PCT	1.8	.0	1.8	5.3	21.1	10.8	10.8	1.8	1.8	.0	.0	.0	49.8

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (M) (>4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)			
	>10	>8	>6	>4
>9900	.0	1.7	1.7	1.7
>9000	.0	3.4	3.4	3.4
>8000	3.4	13.8	13.8	13.8
>7000	3.4	20.7	24.1	24.1
>6000	10.0	41.4	44.8	44.8
>5000	24.1	46.8	50.0	50.0
>4000	24.1	48.3	51.7	51.7
>3000	24.1	48.3	51.7	51.7
>2000	24.1	48.3	51.7	51.7
>1500	24.1	48.3	51.7	51.7
>1000	24.1	48.3	51.7	51.7
>500	24.1	48.3	51.7	51.7
>0	24.1	48.3	51.7	51.7
TOTAL	14	29	31	31

TOTAL NUMBER OF OBS: 38 PCT FREQ NH <5/8: 46.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

PCT FREQ									TOTAL OBS	
0	1	2	3	4	5	6	7	8		
14.8	9.8	9.8	4.9	4.9	4.9	13.1	6.6	29.3	1.6	61

PERIOD: (PRIMARY) 1929-1972
(OVER-ALL) 1929-1972

MAY

AREA 0016 MAGELLAN STRAIT EAST
51.25 65.74

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	TOT %	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.0
2<5	PCP	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0
	NO PCP	.0	.3	.3	.0	.7	.2	.0	.0	.0	.0	.0	1.0
	TOT %	.0	.3	1.4	.0	.7	.2	.0	.0	.0	.0	.0	2.0
5<10	PCP	1.0	.0	.3	.3	1.0	.0	1.0	1.0	.0	.0	.0	4.0
	NO PCP	12.0	1.0	1.4	6.0	5.8	1.2	6.0	6.0	.0	1.0	1.0	40.4
	TOT %	13.0	1.0	1.7	6.3	6.7	1.2	7.0	7.0	.0	1.0	1.0	44.4
10+	PCP	1.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.0
	NO PCP	7.7	2.9	1.0	1.0	3.1	8.2	14.2	9.1	.0	.0	.0	47.1
	TOT %	8.7	2.9	1.0	1.0	3.1	9.1	14.2	9.1	.0	.0	.0	48.1
TOT OBS													104
TOT PCT	22.6	4.3	4.3	7.5	10.6	10.6	21.2	18.0	.0	1.0	100.0		

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	1.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.0
2<5	0-3	.0	.0	.0	.0	.7	.2	.0	.0	.0	.0	.0	1.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	1.0
	22+	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0
	TOT %	.0	.3	1.4	.0	.7	.2	.0	.0	.0	.0	.0	2.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	1.0
	4-10	8.7	.3	1.4	2.2	3.4	.2	1.2	2.0	.0	.0	.0	20.2
	11-21	4.3	.3	.3	.0	1.0	.3	2.9	3.8	.0	.0	.0	13.5
	22+	.0	.0	.0	4.3	2.4	.3	2.9	.5	.0	.0	.0	10.6
	TOT %	13.0	1.0	1.7	6.5	6.7	1.2	7.0	7.0	.0	1.0	1.0	49.2
10+	0-3	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	1.0
	4-10	2.9	1.9	1.0	.0	1.2	2.2	3.4	2.9	.0	.0	.0	15.4
	11-21	3.8	1.0	.0	1.0	1.0	3.1	8.9	3.4	.0	.0	.0	22.1
	22+	1.9	.0	.0	.0	.0	3.8	1.9	2.9	.0	.0	.0	10.6
	TOT %	8.7	2.9	1.0	1.0	3.1	9.1	14.2	9.1	.0	.0	.0	49.0
TOT OBS													104
TOT PCT	22.6	4.3	4.3	7.5	10.6	10.6	21.2	18.0	.0	1.0	100.0		

MAY

PERIOD: (PRIMARY) 1970-1972
(OVER-ALL) 1973-1972

AREA 0016 MAGELLAN STRAIT EAST
51.2S 65.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	100	200	300	400	500	600	700	800	900	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	1.9	2.9	3.9	4.9	5.9	6.9	7.9	8.9	9.9	10.9	11.9	12.9	13.9	14.9	15.9	16.9	30.0	30.0	16
0600	1.9	2.9	3.9	4.9	5.9	6.9	7.9	8.9	9.9	10.9	11.9	12.9	13.9	14.9	15.9	16.9	30.0	30.0	12
1200	7.7	8.7	9.7	10.7	11.7	12.7	13.7	14.7	15.7	16.7	17.7	18.7	19.7	20.7	21.7	22.7	76.9	23.1	13
1800	1.9	2.9	3.9	4.9	5.9	6.9	7.9	8.9	9.9	10.9	11.9	12.9	13.9	14.9	15.9	16.9	41.2	36.8	17
TOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	31	27	58
PCT	1.7	2.0	2.7	3.2	3.7	4.2	4.7	5.2	5.7	6.2	6.7	7.2	7.7	8.2	8.7	9.2	33.4	46.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL OBS
0000	0.0	0.0	9.0	3.0	43.5	48.5							33
0600	0.0	0.0	0.0	4.2	45.8	50.0							24
1200	0.0	3.8	0.0	0.0	46.2	50.0							26
1800	0.0	4.2	0.0	4.2	37.3	54.2							24
TOT	0	2	1	3	47	56							107
PCT	0.0	1.9	0.9	2.8	43.9	50.9							100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<180 <500	<600 <1	<1000 <4	<1000+ AND 3+	NH <5/8 AND 3+	TOTAL OBS
0000	0.0	0.0	12.5	37.5	50.0	16
0600	0.0	8.3	8.3	41.7	50.0	12
1200	7.7	7.7	23.1	33.8	23.1	13
1800	0.0	0.0	3.9	35.3	36.8	17
TOT	1	2	7	24	27	58
PCT	1.7	3.4	12.1	41.6	46.6	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
60/64	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	1	1.2
50/54	0.0	0.0	0.0	0.0	2.4	4.7	2.4	1.2	9	10.6
40/49	0.0	0.0	0.0	2.4	4.7	14.1	17.6	12.9	44	51.8
40/44	0.0	0.0	0.0	0.0	7.1	4.7	7.1	14.1	28	32.9
30/39	0.0	0.0	0.0	0.0	0.0	2.4	0.0	1.2	3	3.3
TOTAL	0	0	0	2	12	23	23	23	63	100.0
PCT	0.0	0.0	0.0	2.4	14.1	27.1	27.1	29.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0
50/54	3.9	0.0	0.0	0.0	0.0	1.2	3.2	0.0	0.0	0.0
40/49	13.8	1.8	2.9	2.9	7.1	1.2	10.6	13.2	0.0	1.2
40/44	4.7	2.9	1.2	2.9	1.8	0.0	0.0	2.1	0.0	0.0
30/39	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0
TOT	24.1	5.3	4.7	5.6	8.8	11.8	22.1	16.3	0.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	60	59	54	45	38	38	38	43.3	33
0600	50	49	49	45	38	38	38	44.9	24
1200	53	52	52	45	40	40	40	45.2	26
1800	52	51	51	45	39	37	37	45.5	24
TOT	60	54	52	45	39	37	37	45.2	107

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	0.0	0.0	13.8	31.0	17.2	37.9			33	33
0600	0.0	0.0	10.5	21.1	36.8	31.6			24	24
1200	0.0	9.3	4.8	28.6	33.3	23.8			26	26
1800	0.0	0.0	27.8	27.8	27.8	16.7			24	24
TOT	0	2	12	24	24	23			81	87

PERIOD: (PRIMARY) 1929-1972
(OVER-ALL) 1929-1972

MAY

AREA 0016 MAGELLAN STRAIT EAST
51.25 65.7M

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIP	37 40	41 44	43 48	49 52	53 56	57 60	TOT	% FOG	NO FOG
11/13	.0	.0	.0	.0	.0	1.0	1	.0	1.0
7/8	.0	.0	1.0	.0	.0	.0	1	.0	1.0
6	.0	.0	.0	1.0	1.0	.0	2	.0	2.0
5	.0	.0	.0	1.0	.0	.0	1	.0	1.0
4	.0	1.0	1.0	4.9	.0	.0	7	1.0	5.9
3	.0	2.0	2.9	2.9	.0	.0	8	.0	7.8
2	.0	2.0	3.9	1.0	.0	.0	7	2.0	4.9
1	1.0	3.9	8.8	2.9	.0	.0	17	3.9	12.7
0	.0	.0	11.8	2.0	.0	.0	14	2.0	11.8
-1	.0	3.9	6.9	.0	.0	.0	11	1.0	9.8
-2	2.0	4.9	3.9	1.0	.0	.0	12	1.0	10.8
-3	1.0	3.9	1.0	.0	.0	.0	6	.0	5.9
-4	1.0	2.9	.0	.0	.0	.0	4	1.0	2.9
-5	4.9	2.9	.0	.0	.0	.0	8	.0	7.8
-6	1.0	1.0	1.0	.0	.0	.0	3	.0	2.9
TOTAL	11	29	43	17	1	1	102	11.8	88.2
PCT	10.8	28.4	42.2	16.7	1.0	1.0	100.0	11.8	88.2

PERIOD: (OVER-ALL) 1969-1972

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N					PCT	NE					PCT
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.0	5.3	5.3	.0	.0	10.6	.0	.0	.0	.0	.0	.0
1-2	.0	5.3	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0
3-4	.0	.0	5.3	.0	.0	5.3	.0	.0	.0	.0	.0	.0
5-6	.0	.0	5.3	.0	.0	5.3	.0	.0	.0	.0	.0	.0
7	.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
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.6	15.8	.0	.0	26.3	.0	.0	.0	.0	.0	.0

HGT	S					PCT	SE					PCT
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.0	5.3	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0
1-2	.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
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.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
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.3	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1972

MAY

AREA '016 MAGELLAN STRAIT EAST
51.23 65.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	1.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.3	10.5	.0	.0	13.2
5-6	.0	.0	3.3	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	5.3	.0	.0	.0	5.3	.0	2.6	1.3	10.5	.0	.0	14.5

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	3.3	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.3	.0	.0	.0	.0	3.3	.0	3.3	.0	.0	.0	.0	3.3	.0
3-4	.0	3.3	3.3	.0	.0	.0	7.9	.0	3.3	.0	.0	.0	.0	3.3	.0
5-6	.0	.0	9.2	.0	.0	.0	9.2	.0	.0	1.3	.0	.0	.0	1.3	.0
7	.0	.0	3.3	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	3.3	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	13.2	13.4	.0	3.3	.0	36.8	.0	16.3	1.3	.0	.0	.0	11.8	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	13.8	3.3	.0	.0	.0	21.1	
1-2	.0	13.8	.0	.0	.0	.0	13.8	
3-4	.0	10.5	10.5	10.5	.0	.0	31.6	
5-6	.0	.0	21.1	.0	.0	.0	21.1	
7	.0	.0	3.3	.0	.0	.0	3.3	
8-9	.0	.0	.0	.0	3.3	.0	3.3	
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	42.1	42.1	10.5	3.3	.0	100.0	19

PERIOD: (OVER-ALL) 1960-1972

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	4.4	6.7	22.2	2.2	2.2	6.7	2.2	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	3	
6-7	.0	.0	.0	11.1	4.4	2.2	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	6
8-9	.0	.0	.0	.0	2.2	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
10-11	.0	.0	.0	4.4	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
12-13	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	8.9	.0	2.2	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	1
TOTAL	5	3	12	9	3	6	2	2	0	0	0	0	0	0	0	0	0	0	0	45	5	
PCT	13.3	6.7	26.7	20.0	11.1	13.3	4.4	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1922-1973

AREA 0016 MAGELLAN STRAIT EAST
51.35 69.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	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 DUST	NO SIG WEA
N	.0	.0	1.9	.0	.0	.0	.0	1.9	.9	.0	.0	.0	.0	.0	94.2
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	20.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0
S	24.1	.0	.0	.0	.0	.0	.0	24.1	.0	.0	.0	.0	.0	.0	75.9
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	.0	.0	88.9
W	.0	.0	4.9	.0	.0	.0	.0	4.9	.0	.0	9.8	.0	.0	.0	85.4
NW	.0	.0	3.4	.0	.0	.0	.0	3.4	.0	.0	10.8	.0	.0	.0	83.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.6	.0	2.6	.0	.0	.0	.0	5.3	1.3	.0	5.3	.0	.0	.0	88.2
TOT OBS:	76														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	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 DUST	NO SIG WEA
0000Z	3.8	.0	7.7	.0	.0	.0	.0	11.5	.0	.0	3.8	.0	.0	.0	84.6
0600Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	93.0
1200Z	5.0	.0	.0	.0	.0	.0	.0	5.0	.0	.0	10.0	.0	.0	.0	85.0
1800Z	.0	.0	.0	.0	.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0	90.9
TOT PCT	2.6	.0	2.6	.0	.0	.0	.0	5.2	1.3	.0	5.2	.0	.0	.0	88.3
TOT OBS:	77														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-9	10-19	20-29	30-39	40-49	50+				00	03	06	09	12	15	18	21
N	.0	15.4	9.0	2.5	6.2	.0	33.0	16.0	9.4	40.0	46.8	30.0	35.9	62.5	21.9	10.0
NE	.0	1.3	3.4	.0	.0	.0	4.9	14.8	6.3	.0	3.1	3.6	9.4	12.9	3.1	.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	1.2	.0	.0	.3	.0	1.5	19.0	.0	.0	.0	.0	1.6	.0	12.5	.0
S	.0	.0	4.3	4.3	.9	.0	9.6	23.3	12.5	5.0	12.5	.0	10.9	.0	29.0	10.3
SW	1.2	.0	6.2	3.6	.3	.0	13.3	20.2	26.6	5.0	12.5	14.3	7.8	25.0	3.1	10.0
W	.0	3.7	8.3	1.2	1.5	.0	14.8	19.4	17.2	15.0	12.5	7.1	9.4	.0	34.4	30.3
NW	.0	12.7	4.6	1.2	4.3	.0	22.8	13.1	28.1	33.0	12.5	25.0	25.0	.0	.0	40.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	1	28	29	12	11	0	81	16.9	16	10	8	14	16	4	8	3
TOT PCT	1.2	34.6	39.8	14.8	13.6	.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)								
	0-6	7-16	17-27	28-40				00	03	06	09	12	15	18	21	
N	6.2	17.0	2.5	7.4	.0	33.0	16.0	21.2	48.9	41.3	17.3					
NE	.0	2.3	2.3	.0	.0	4.9	14.8	3.8	3.4	10.0	1.9					
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
SE	.0	1.2	.0	.3	.0	1.5	19.0	.0	.0	1.3	7.7					
S	.0	2.5	3.1	4.0	.0	9.6	23.3	9.6	4.5	8.3	19.2					
SW	1.2	3.1	3.6	3.4	.0	13.3	20.2	18.3	13.6	11.3	3.8					
W	3.7	7.1	2.5	1.3	.0	14.8	19.4	16.3	9.1	7.3	32.7					
NW	6.2	11.1	.0	3.6	.0	22.8	13.1	40.8	20.9	20.0	15.4					
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	14	36	13	16	0	81	16.9	24	22	20	13					
TOT PCT	17.3	44.4	16.0	22.2	.0			100.0	100.0	100.0	100.0					

JUNE

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1927-1973

AREA 0010, MAGELLAN STRAIT EAST
31.35 65.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-29	34-47				
00603	.0	3.8	19.2	50.0	15.4	11.5	.0	16.9	100.0	26
06609	.0	.0	34.5	22.7	18.2	4.5	.0	13.5	100.0	22
12615	.0	.0	39.0	40.0	9.0	20.0	.0	17.6	100.0	20
18621	.0	.0	30.8	23.1	23.1	23.1	.0	21.5	100.0	13
TOT	0	1	28	29	12	11	0	16.9		81
PCT	.0	1.2	34.6	35.8	14.8	13.6	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NP	.0	.0	5.4	5.4	6.9	6.9
E	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	5.4	8.0	8.0
S	.0	.0	4.9	7.6	7.6	7.6
SW	5.4	4.3	1.1	.0	2.1	2.1
W	10.9	2.2	3.3	.0	1.9	1.9
NH	9.8	2.2	5.1	.0	2.8	2.8
VAR	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0
TOT OBS	8	2	7	6	23	4.3
TOT PCT	34.8	8.7	30.4	26.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	130	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL OBS
N	.0	3.3	.0	3.3	4.3	4.3	.0	.0	.0	.0	12.0	
NP	.0	1.1	.0	4.3	4.3	.0	.0	.0	.0	.0	1.1	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SE	.0	.0	.0	5.4	.0	.0	.0	.0	.0	.0	.0	
S	.0	.0	.0	3.3	4.3	.0	.0	.0	.0	.0	4.3	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.9	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.3	
NH	.0	.0	.0	1.1	4.3	.0	.0	.0	.0	.0	12.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	8	2	7	6	23	4.3					23	
TOT PCT	34.8	8.7	30.4	26.1	100.0						56.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>5000	>0
>3000	.0	.0	.0	.0	.0	.0	.0	.0
>2000	.0	.0	.0	.0	.0	.0	.0	.0
>1500	.0	.0	.0	.0	.0	.0	.0	.0
>1000	.0	4.2	4.2	4.2	4.2	4.2	4.2	4.2
>500	8.3	20.8	20.8	20.8	20.8	20.8	20.8	20.8
>300	16.7	37.5	37.5	37.5	37.5	37.5	37.5	37.5
>200	16.7	37.5	37.5	37.5	37.5	37.5	37.5	37.5
>150	16.7	37.5	41.7	41.7	41.7	41.7	41.7	41.7
>0	16.7	37.5	41.7	41.7	41.7	41.7	41.7	41.7
TOTAL	4	9	10	10	10	10	10	10

TOTAL NUMBER OF OBS: 24

PCT FREQ NH <5/8: 56.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
37.0	.0	3.7	3.7	7.4	3.7	16.3	7.4	16.5	.0	27

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1922-1973

JUNE

AREA 0016 MAGELLAN STRAIT EAST
31.35 05.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.7	.7	.0	.0	.0	.0	1.3
	TOT %	.0	.0	.0	.0	.0	.7	.7	.0	.0	.0	.0	1.3
2<5	PCP	.0	.0	.0	.0	.0	.7	.7	.0	.0	.0	.0	1.3
	NO PCP	1.0	.3	.0	.0	.7	.7	.0	.0	.0	.0	.0	2.6
	TOT %	1.0	.3	.0	.0	.7	.7	.7	.0	.0	.0	.0	3.9
5<10	PCP	.7	.0	.0	.3	1.0	.0	.0	.7	.0	.0	.0	2.4
	NO PCP	16.4	2.0	.0	1.3	3.3	7.9	3.3	11.2	.0	.0	.0	47.4
	TOT %	17.1	2.0	.0	1.6	4.3	7.9	3.3	11.8	.0	.0	.0	50.0
10+	PCP	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	1.3
	NO PCP	15.8	3.0	.0	.0	1.3	3.3	8.9	11.2	.0	.0	.0	43.4
	TOT %	15.8	3.0	.0	.0	2.6	3.3	8.9	11.2	.0	.0	.0	44.7
TOT OBS													76
TOT PCT		33.9	3.3	.0	1.6	9.3	11.8	13.8	24.3	.0	.0	.0	100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (MM)	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	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.7	.7	.0	.0	.0	.0	1.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	.0	1.3
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	1.0	.3	.0	.0	.0	.7	.7	.0	.0	.0	.0	2.6
	22+	.0	.0	.0	.0	.7	.7	.0	.0	.0	.0	.0	1.3
	TOT %	1.0	.3	.0	.0	.7	.7	.7	.7	.0	.0	.0	3.9
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	9.2	.0	.0	1.3	.0	.0	.7	7.2	.0	.0	.0	18.4
	11-21	3.9	2.0	.0	.0	2.0	3.3	2.0	2.0	.0	.0	.0	17.1
	22+	2.0	.0	.0	.3	4.3	4.6	.7	2.6	.0	.0	.0	14.3
	TOT %	17.1	2.0	.0	1.6	6.3	7.9	3.3	11.8	.0	.0	.0	50.0
10+	0-3	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	1.3
	4-10	3.9	1.6	.0	.0	.0	.0	3.3	6.3	.0	.0	.0	17.1
	11-21	2.6	1.3	.0	.0	2.6	1.6	4.6	1.6	.0	.0	.0	14.3
	22+	7.2	.0	.0	.0	.0	.3	1.0	3.3	.0	.0	.0	11.8
	TOT %	13.8	3.0	.0	.0	2.6	3.3	8.9	11.2	.0	.0	.0	44.7
TOT OBS													76
TOT PCT		33.9	3.3	.0	1.6	9.3	11.8	13.8	24.3	.0	.0	.0	100.0

JUNE

PERIOD: (PRIMARY) 1926-1973
(OVER-ALL) 1927-1973

AREA 0016 MAGELLAN STRAIT EAST
51.35 65.6M

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/MH >4/8) AND OCCURRENCE OF NH: <3/8 BY HOUR

MOHR (GMT)	000	150	300	600	1000	2000	3000	5000	6000	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
	149	289	599	999	1999	3499	4999	6499	7999				
0000	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	12.5	87.5	8
0600	.0	.0	.0	.0	20.0	20.0	.0	.0	.0	.0	40.0	60.0	5
1200	.0	.0	.0	60.0	.0	.0	.0	.0	.0	.0	60.0	40.0	5
1800	.0	16.7	.0	16.7	33.3	.0	.0	.0	.0	.0	66.7	33.3	6
TOT	0	1	0	4	4	1	0	0	0	0	10	14	24
PCT	.0	4.2	.0	16.7	16.7	4.2	.0	.0	.0	.0	41.7	39.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (MH) BY HOUR

MOHR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000	.0	.0	3.8	7.7	30.8	57.7	26
0600	.0	.0	.0	.0	65.0	35.0	20
1200	.0	.0	.0	.0	60.0	40.0	20
1800	.0	.0	.0	9.1	45.5	45.5	11
TOT	0	0	1	3	38	35	77
PCT	.0	.0	1.3	3.9	49.4	45.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (MH) AND/OR CEILING HGT (FEET/MH >4/8) BY HOUR

MOHR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <3/8 AND 5+	TOTAL OBS
0000	.0	.0	.0	12.5	87.5	8
0600	.0	.0	.0	40.0	60.0	5
1200	.0	.0	60.0	.0	40.0	5
1800	.0	16.7	33.3	33.3	33.3	6
TOT	0	1	5	5	14	24
PCT	.0	4.2	20.8	20.8	39.3	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
30/34	.0	.0	.0	.0	1.4	.0	.0	.0	1	1.4
45/49	.0	.0	.0	.0	2.8	18.2	15.5	7.0	31	43.7
49/44	.0	.0	.0	.0	1.4	7.0	8.5	16.9	24	33.8
39/39	.0	1.4	.0	.0	4.2	2.8	5.6	7.0	19	21.1
TOTAL	0	1	0	0	7	20	21	22	71	100.0
PCT	.0	1.4	.0	.0	9.9	28.2	29.6	31.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
30/34	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
45/49	20.1	2.1	.0	.0	1.4	4.2	3.2	12.7	.0	.0
49/44	9.9	1.4	.0	1.4	.0	1.8	8.8	10.8	.0	.0
39/39	.0	.0	.0	.4	8.1	8.8	3.9	.0	.0	.0
TOTAL	31.3	3.5	.0	1.8	9.5	14.8	15.8	23.2	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (OBS F) BY HOUR

MOHR (GMT)	MAX	95%	90%	50%	50%	15	MIN	MEAN	TOTAL OBS
0000	49	48	48	43	36	36	36	43.1	76
0600	30	40	48	44	38	35	35	43.5	23
1200	47	46	46	44	37	35	35	43.1	21
1800	46	45	45	41	36	36	36	41.2	13
TOT	30	45	47	43	36	35	35	42.9	83

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

MOHR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	4.0	12.0	20.0	40.0	24.0	24.0	41	25	
0600	.0	.0	16.7	33.3	27.8	22.2	22.2	81	16	
1200	.0	.0	6.3	37.5	25.0	31.3	83	16		
1800	.0	.0	.0	23.1	23.1	33.8	87	13		
TOT	0	1	7	27	22	22	83	72		

JUNE

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1922-1973

AREA 0016 MAGELLAN STRAIT EAST
51.35 65.6W

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	37	41	45	49	TOT	M FOG	M FOG
6	.0	.0	.0	.0	1.4	1	.0	1.4
4	.0	.0	.0	2.9	.0	2	.0	2.9
3	.0	.0	.0	2.9	.0	2	.0	2.9
2	.0	.0	.0	4.3	.0	3	.0	4.3
1	.0	.0	2.9	8.7	1.4	3	1.4	11.0
0	.0	.0	7.2	14.5	.0	15	.0	21.7
-1	1.4	.0	5.8	7.2	.0	10	.0	14.5
-2	.0	1.4	11.6	1.4	.0	10	.0	14.5
-3	.0	1.4	1.4	.0	.0	2	.0	2.9
-4	1.4	2.9	1.4	.0	.0	4	.0	5.8
-5	1.4	1.4	1.4	.0	.0	3	1.4	2.9
-6	.0	4.3	.0	.0	.0	3	.0	4.3
-7/-8	.0	1.4	1.4	.0	.0	2	.0	2.9
-9/-10	1.4	1.4	.0	.0	.0	2	.0	2.9
-11/-13	1.4	.0	.0	.0	.0	1	.0	1.4
TOTAL	3	10	23	29	2	69	1.4	67
PCT	7.2	14.5	33.3	42.0	2.9	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	NE						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	12.5	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	.0
1-2	.0	12.5	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	.0
3-4	.0	9.4	25.0	.0	.0	.0	34.4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	34.4	25.0	.0	.0	.0	39.4	.0	.0	.0	.0	.0	.0	.0

PERIOD (OVER-ALL) 1962-1973

JUNE

AREA 0018 MAGELLAN STRAIT EAST
51.35 65.6W

TABLE 16 (CONT)

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.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	.0	.0
3-4	.0	.0	.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	3.1	.0	.0	.0	.0	3.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	.0	3.1

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.0	.0	.0	.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	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	.0	.0	3.1
5-6	.0	.0	9.4	.0	.0	.0	.0	9.4	.0	.0	.0	.0	.0	.0	.0	.0	9.4
7	.0	.0	9.4	.0	.0	.0	.0	9.4	.0	.0	.0	.0	.0	.0	.0	.0	9.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	.0	.0	3.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.8	.0	.0	.0	.0	.0	12.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	18.8	.0	.0	.0	.0	18.8	.0	.0	3.1	15.6	.0	.0	.0	.0	18.8 100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	.0	11.1	.0	.0	.0	.0	11.1	0.0
1-2	11.1	11.1	.0	.0	.0	.0	22.2	0.0
3-4	.0	11.1	22.2	.0	.0	.0	33.3	0.0
5-6	.0	.0	11.1	.0	.0	.0	11.1	0.0
7	.0	.0	11.1	.0	.0	.0	11.1	0.0
8-9	.0	.0	11.1	.0	.0	.0	11.1	0.0
10-11	.0	.0	.0	.0	.0	.0	.0	0.0
12	.0	.0	.0	.0	.0	.0	.0	0.0
13-14	.0	.0	.0	.0	.0	.0	.0	0.0
15-16	.0	.0	.0	.0	.0	.0	.0	0.0
17-19	.0	.0	.0	.0	.0	.0	.0	0.0
20-22	.0	.0	.0	.0	.0	.0	.0	0.0
23-25	.0	.0	.0	.0	.0	.0	.0	0.0
26-32	.0	.0	.0	.0	.0	.0	.0	0.0
33-40	.0	.0	.0	.0	.0	.0	.0	0.0
41-48	.0	.0	.0	.0	.0	.0	.0	0.0
49-60	.0	.0	.0	.0	.0	.0	.0	0.0
61-70	.0	.0	.0	.0	.0	.0	.0	0.0
71-86	.0	.0	.0	.0	.0	.0	.0	0.0
87+	.0	.0	.0	.0	.0	.0	.0	0.0
TOT PCT	11.1	33.3	55.6	.0	.0	.0	100.0	

PERIOD (OVER-ALL) 1951-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.0	13.0	26.1	.0	8.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.0	3
6-7	.0	.0	.0	13.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	6
8-9	.0	.0	4.3	4.3	.0	4.3	.0	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	7
10-11	.0	.0	.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	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	4.3	8.7	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	2
TOTAL	1	5	7	3	3	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	23	4
PCT	4.3	21.7	10.4	21.7	13.0	4.3	.0	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1926-1973

AREA 0016 MACLELLAN STRAIT EAST
51.6S 65.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FG NO PCPN	FG NO PCPN PAST HR	SMOKE MAZE	SPRAY BLWG DUST	NO SIG WEA
N	11.8	.0	.0	.0	.0	.0	.0	11.8	.0	.0	.0	.0	.0	.0	58.2
NE	26.1	.0	21.7	.0	.0	.0	.0	47.8	.0	.0	.0	.0	.0	.0	52.2
E	.0	.0	40.5	.0	.0	.0	.0	40.5	.0	.0	.0	.0	.0	.0	9.5
SE	.0	.0	32.3	.0	.0	.0	.0	32.3	.0	.0	.0	.0	.0	.0	66.7
S	.0	5.3	.0	.0	.0	.0	.0	5.3	.0	.0	10.5	.0	.0	.0	84.2
SW	.0	4.0	.0	.0	8.0	.0	.0	12.0	.0	.0	24.0	.0	.0	.0	64.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.5	.0	.0	.0	85.5
NW	6.0	.0	.0	.0	.0	.0	.0	6.0	.0	.0	6.0	.0	.0	.0	88.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.3	1.1	7.5	.0	1.1	.0	.0	14.0	.0	.0	9.7	.0	.0	.0	76.3
TOT OBS:	93														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

GROUP (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FG NO PCPN	FG NO PCPN PAST HR	SMOKE MAZE	SPRAY BLWG DUST	NO SIG WEA
0000	.0	4.0	8.0	.0	4.0	.0	.0	16.0	.0	.0	.0	.0	.0	.0	84.0
0600	5.6	.0	11.1	.0	.0	.0	.0	16.7	.0	.0	16.7	.0	.0	.0	66.7
1200	7.1	.0	7.1	.0	.0	.0	.0	14.3	.0	.0	14.3	.0	.0	.0	71.6
1800	4.3	.0	4.3	.0	.0	.0	.0	9.1	.0	.0	9.1	.0	.0	.0	81.8
TOT PCT	4.3	1.1	7.5	.0	1.1	.0	.0	14.0	.0	.0	9.7	.0	.0	.0	76.3
TOT OBS:	93														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.6	8.1	3.8	3.3	.0	.0	15.8	13.3	3.6	11.4	15.9	3.6	15.2	25.0	32.9	21.2
NE	.2	2.1	2.7	1.8	.0	.0	6.8	14.8	5.3	13.6	11.4	10.7	3.3	3.8	1.6	7.7
E	.0	.4	4.0	.0	.0	.0	4.4	15.2	2.4	4.3	.0	10.7	3.3	7.7	6.3	.0
SE	.4	1.3	.8	.0	.0	.0	2.5	8.1	2.6	9.1	.0	2.6	.0	.0	6.3	.0
S	.4	2.3	4.6	.8	.8	.0	8.8	16.0	10.3	9.1	.0	17.0	9.8	.0	12.3	5.8
SW	.0	2.7	4.4	4.6	1.3	.0	12.9	19.7	18.4	13.6	14.2	10.7	15.9	11.5	3.1	19.2
W	1.9	8.1	11.1	6.7	1.3	.0	29.6	16.4	39.3	22.7	22.7	25.0	34.2	28.8	21.9	38.3
NW	2.7	4.7	2.8	2.3	1.7	.0	19.6	15.9	21.1	15.9	31.8	17.9	22.8	23.1	15.6	7.7
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	.0
TOT OBS	7	35	44	23	4	0	120	15.9	19	11	11	14	23	13	16	13
TOT PCT	5.8	29.2	40.8	19.2	3.0	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOT % OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	.6	3.3	6.3	1.4	2.1	.0	13.8	13.3	6.7	9.0	18.8	27.6		
NE	.2	4.2	.4	1.3	.0	.0	6.3	14.8	8.3	11.0	3.5	4.3		
E	.0	2.1	2.3	.0	.0	.0	4.4	15.2	3.3	6.0	4.9	3.4		
SE	1.3	1.3	.0	.0	.0	.0	2.6	8.1	5.0	2.0	.0	3.4		
S	2.7	.0	3.2	.8	.0	.0	6.8	16.0	10.0	10.0	6.3	9.3		
SW	1.5	2.4	3.4	3.1	.0	.0	12.9	19.7	16.7	14.0	11.1	10.3		
W	4.2	9.6	15.1	2.7	.0	.0	29.6	16.4	30.8	24.0	32.6	29.3		
NW	3.1	7.3	7.5	1.7	.0	.0	17.6	15.9	19.2	24.0	22.9	12.1		
VAR	.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		
TOT OBS	7	43	43	14	0	120	15.9		30	25	36	29		
TOT PCT	10.7	35.8	45.8	11.7	.0		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1926-1973

JULY

AREA 0010 MAGELLAN STRAIT EAST
51.05 65.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
0000Z	.0	3.3	26.7	36.7	10.0	3.3	.0	19.3	100.0	20
0600Z	.0	12.0	48.0	28.0	8.0	4.0	.0	12.0	100.0	25
1200Z	.0	8.3	22.2	33.3	30.6	3.6	.0	17.6	100.0	26
1800Z	.0	.0	24.1	44.8	24.1	6.9	.0	17.7	100.0	29
TOT	0	7	38	49	23	6	0	19.9		120
PCT	.0	3.8	29.2	40.8	19.2	3.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	3.3	.0	0.2	4.4		3.4
NE	.0	1.8	.4	2.6		4.0
E	.0	.0	.0	6.0		8.0
SE	.0	.0	.0	1.8		8.0
S	1.3	1.3	1.0	3.1		3.7
SW	4.8	2.6	.4	3.9		4.2
W	11.4	6.1	7.3	1.3		3.4
NW	10.3	.4	7.0	6.1		4.3
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	18	7	18	17	87	4.4
TOT PCT	31.6	12.3	26.3	29.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/MH >4/8) AND OCCURRENCE OF MH <4/8 BY WIND DIRECTION

WIND DIR	CEILING HEIGHTS (FT/MH >4/8)										MH <4/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3000	5000	6000+	8000+		
	149	299	599	999	1999	3499	4999	6499	7999	8999		
N	.0	.0	.0	1.3	4.4	3.1	.0	.0	.0	.0	.0	8.3
NE	.0	.0	.0	.4	.9	1.8	.0	.0	.0	.0	.0	1.8
E	.0	.0	.0	.0	6.6	.0	.0	.0	.0	.0	.0	6.6
SE	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	1.8
S	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	1.8
SW	.0	.0	.0	1.3	.0	1.8	.0	.0	.0	.0	.0	3.1
W	.0	.0	.0	.4	2.2	1.8	.0	.0	.0	.0	.0	4.4
NW	.0	1.8	.0	1.8	1.3	1.8	.0	.0	.0	.0	.0	6.7
VAR	.0	.0	.0	1.8	2.2	.4	2.8	.0	1.8	.0	.0	14.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	18	7	18	17	87	4.4						
TOT PCT	1.8	.0	1.8	3.3	19.3	10.3	3.3	.0	1.8	1.8	34.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (MH >4/8) AND VSBY (MH)

CEILING (FEET)	VSBY (MH)							
	>10	>3	>2	>1	>1/2	>1/4	>0000	>0
>6500	1.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3
>5000	1.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3
>3500	3.3	7.0	7.0	7.0	7.0	7.0	7.0	7.0
>2000	14.0	15.0	17.3	17.3	17.3	17.3	17.3	17.3
>1000	28.1	33.1	36.8	36.8	36.8	36.8	36.8	36.8
>600	33.3	40.4	42.1	42.1	42.1	42.1	42.1	42.1
>300	33.3	42.1	43.9	43.9	43.9	43.9	43.9	43.9
>150	33.3	42.1	43.9	43.9	43.9	43.9	43.9	43.9
>0	36.8	44.9	45.6	45.6	45.6	45.6	45.6	45.6
TOTAL	21	25	26	26	26	26	26	26

TOTAL NUMBER OF OBS: 17

PCT FREQ MH <4/8: 34.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBS	TOTAL OBS
11.9	19.7	11.9	6.6	4.9	3.3	9.8	0.2	23.0	61

JULY

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1926-1973

AREA 0016 MAGELLAN STRAIT EAST
51.65 69.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
	NO PCP	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1	
	TOT %	.5	.5	.0	.0	.0	.0	1.1	.0	.0	.0	2.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	1.1	
	TOT %	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	1.1	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	1.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	1.1	
5<10	PCP	1.1	1.3	4.0	1.1	.5	1.1	.0	.0	.0	.0	9.0	
	NO PCP	1.6	1.6	.5	.5	1.6	3.3	6.1	5.1	.0	.0	22.3	
	TOT %	2.7	2.9	4.5	1.6	2.1	4.4	6.6	5.1	.0	.0	31.0	
10+	PCP	.0	1.1	1.1	.0	.0	.0	.0	1.1	.0	.0	3.2	
	NO PCP	10.4	1.6	.0	1.6	6.9	6.4	22.1	11.7	.0	.0	60.6	
	TOT %	10.4	2.7	1.1	1.6	6.9	6.4	22.1	12.8	.0	.0	63.8	
TOT OBS													94
TOT PCT													19.6 6.1 5.4 3.2 10.1 13.8 29.8 17.8 .0 .0 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
	TOT %	1.0	1.0	.0	.0	.0	.0	1.0	.0	.0	.0	3.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	2.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	2.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0	
	TOT %	1.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	3.0	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	1.0	1.0	.5	.5	.0	.0	1.5	.5	.0	.0	5.1	
	11-21	.0	1.3	3.8	1.0	2.0	3.0	2.8	4.3	.0	.0	18.2	
	22+	1.5	.5	.0	.0	.0	3.0	2.0	.0	.0	.0	7.1	
	TOT %	2.5	2.8	4.3	1.5	2.0	6.1	6.3	4.8	.0	.0	30.3	
10+	0-3	.0	.0	.0	.5	.5	.0	1.0	.0	.0	.0	2.0	
	4-10	4.5	.5	.0	1.0	1.8	1.3	1.0	2.5	.0	.0	12.1	
	11-21	3.8	2.0	1.0	.0	3.3	1.8	11.4	6.1	.0	.0	29.3	
	22+	1.5	.5	.0	.0	1.0	3.0	7.6	4.8	.0	.0	18.2	
	TOT %	9.8	2.5	1.0	1.5	6.6	6.1	21.0	13.1	.0	.0	61.6	
TOT OBS													99
TOT PCT													14.4 7.2 5.3 3.0 9.8 13.1 29.3 17.9 .0 .0 100.0

JULY

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1926-1973

AREA 0016 MAGELLAN STRAIT EAST
51.65 65.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET; NM >4/8) AND OCCURRENCE OF NM <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3000	5000	6000	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	899	1799	3499	4999	6499	7999				
00003	.0	.0	.0	7.1	28.6	7.1	.0	.0	7.1	.0	50.0	50.0	14
06009	9.1	.0	.0	9.1	18.2	18.2	.0	.0	.0	.0	54.5	45.5	11
12015	.0	.0	5.9	5.9	11.8	.0	5.9	.0	.0	.0	29.4	70.6	17
18021	.0	.0	.0	.0	17.6	17.6	5.9	.0	.0	5.9	47.1	52.9	17
TOT	1	0	1	3	11	6	2	0	1	1	26	33	59
PCT	1.7	.0	1.7	5.1	18.6	10.2	3.4	.0	1.7	1.7	44.1	55.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.0	3.7	.0	7.4	29.9	63.0	27
06009	.0	5.0	.0	5.0	40.0	50.0	20
12015	3.4	.0	.0	.0	37.9	58.6	29
18021	6.7	.0	.0	.0	17.4	73.9	23
TOT	3	2	0	3	30	61	99
PCT	3.0	2.0	.0	3.0	30.3	61.8	100.0

TABLE 12

CUMULATIVE PCT FREQ RANGES OF VSBY (NM) AND/OR CEILING (FEET; NM >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NM <5/8	TOTAL
(GMT)	<500	<1	<5	AND 5+	AND 5+	OBS
00003	.0	.0	15.4	38.5	46.2	13
06009	9.1	9.1	18.2	36.4	45.5	11
12015	.0	5.9	11.8	17.6	70.6	17
18021	.0	.0	.0	50.0	50.0	16
TOT	1	2	6	20	31	57
PCT	1.8	3.5	10.5	35.1	54.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
#									OBS	FREQ
45/49	.0	.0	.0	1.0	1.0	3.1	9.2	3.1	14	14.4
40/44	.0	.0	.0	2.1	5.2	17.5	22.7	17.5	63	64.9
35/39	.0	.0	.0	2.1	4.1	9.2	6.2		19	19.6
30/34	.0	.0	.0	.0	.0	.0	1.0		1	1.0
TOTAL	0	0	1	5	8	24	32	27	97	100.0
PCT	.0	.0	1.0	5.2	8.2	24.7	33.0	27.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
4.4	1.3	1.8	.0	.0	.0	3.4	3.4	.0	.0
9.5	4.4	3.6	2.6	4.6	4.9	21.9	13.4	.0	.0
1.8	.3	.0	.0	2.8	4.4	6.7	3.9	.0	.0
.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0
15.7	5.9	5.4	2.6	7.2	9.3	32.0	21.9	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	48	45	45	41	36	34	34	41.0	30
06009	45	44	44	41	36	34	34	40.7	26
12015	46	47	46	41	35	34	34	41.2	37
18021	48	47	47	42	35	31	31	41.8	31
TOT	48	47	46	41	35	34	31	41.2	124

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00003	.0	4.0	12.0	24.0	20.0	40.0	85	29		29
06009	.0	5.6	5.6	22.2	38.9	27.8	83	18		18
12015	.0	10.0	6.7	16.7	33.3	33.3	82	30		30
18021	.0	4.2	8.3	17.5	41.7	8.3	79	24		24
TOT	0	6	6	24	32	27	82	97		97

JULY

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1926-1973

AREA 0016 MAGELLAN STRAIT EAST
51.6S 65.9W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH-OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 45	TOT	% FOG	% NO FOG
4	.0	.0	3.4	2.3	5	.0	5.7
3	.0	.0	1.1	2.3	3	.0	3.4
2	.0	.0	3.4	4.5	7	1.1	6.8
1	.0	.0	5.7	1.1	6	1.1	5.7
0	.0	1.1	12.9	1.1	13	.0	14.8
-1	1.1	4.5	9.1	.0	13	3.4	11.4
-2	.0	2.3	11.4	.0	12	2.3	11.4
-3	.0	6.8	.0	1.1	7	.0	8.0
-4	.0	6.8	3.4	.0	9	2.3	8.0
-5	.0	3.4	2.3	.0	5	.0	5.7
-6	2.3	3.4	.0	.0	5	.0	5.7
-7/-8	1.1	.0	.0	.0	1	.0	1.1
-11/-13	2.3	.0	.0	.0	2	.0	2.3
TOTAL	6	25	46	11	88	9	79
PCT	6.8	28.4	52.3	12.5	100.0	10.2	89.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.1	3.0	.0	.0	.0	9.1	.0	.0	3.0	.0	.0	.0	.0	3.0
3-6	.0	2.3	.0	.0	.0	.0	2.3	.0	.0	3.8	.0	.0	.0	.0	3.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	2.3	.0	.0	2.3	.0	.0	.0	.8	.0	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.3	3.0	2.3	.0	.0	13.6	.0	.0	6.8	.8	.0	.0	.0	7.6

HGT	E						PCT	SE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	3.0	.0	.0	.0	3.0	.0	3.0	.0	.0	.0	.0	.0	3.0
3-6	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	6.1	.0	.0	.0	6.1	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	11.4	.0	.0	.0	11.4	.0	3.0	.0	.0	.0	.0	.0	3.0

PERIOD: (OVER-ALL) 1963-1973

JULY

AREA 0016 MAGELLAN STRAIT EAST
51.63 65.3W

TABLE 18 (CONT)

PCT PREL OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.3	3.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.8
3-4	.0	.0	.0	3.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.8	.0	3.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	3.0	.0	.0	3.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.8	.0	3.8
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	.0	2.3	3.0	.0	.0	5.3	.0	.0	.8	6.8	4.5	.0	12.1

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	3.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	3.8	6.1	.0	.0	.0	9.8	.0
5-6	.0	.0	.0	3.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	6.1	10.6	.0	.0	16.7	.0	.0	.0	3.8	.0	.0	3.8	.0
8-9	.0	.0	.0	2.3	2.3	.0	4.5	.0	.0	.0	.8	3.0	.0	3.8	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	2.3	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	9.1	19.6	4.3	.0	25.9	.0	3.8	6.1	4.5	2.0	.0	17.4	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	.0	.0	.0	.0	.0	.0	.0
1-2	.0	0.1	15.2	.0	.0	.0	24.2	.0
3-4	.0	0.1	12.1	3.0	.0	.0	21.2	.0
5-6	.0	.0	0.1	3.0	.0	.0	9.1	.0
7	.0	.0	0.1	15.2	.0	.0	21.2	.0
8-9	.0	.0	.0	0.1	0.1	.7	12.1	.0
10-11	.0	.0	.0	0.1	.0	.0	0.1	.0
12	.0	.0	.0	.0	0.1	.0	0.1	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	15.2	39.4	39.3	12.1	.0	100.0	33

PERIOD: (OVER-ALL) 1952-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
4-7	.0	5.7	13.2	11.3	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	4
8-9	.0	.0	3.8	5.7	17.0	7.3	3.8	1.9	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	7
10-11	.0	.0	.0	3.8	1.9	1.9	1.9	.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	9
12-13	.0	.0	.0	1.9	5.7	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
15-19	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
21-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDEX	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	.0	5.7	9	12	13	6	3	3	4	0	0	0	0	0	0	0	0	0	0	0	59	7
PCT	.0	5.7	17.0	22.6	24.3	11.3	5.7	5.7	7.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1941-1972
(OVER-ALL) 1924-1972

AUGUST

AREA 0016 MAGELLAN STRAIT EAST
51.55 65.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.1	.0	.0	.0	83.9
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	27.3	.0	.0	.0	.0	.0	.0	17.3	.0	.0	9.1	.0	.0	.0	63.6
SE	11.8	.0	.0	.0	.0	.0	.0	11.8	.0	.0	35.3	.0	.0	.0	52.9
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	12.8	.0	.0	.0	.0	.0	.0	12.8	.0	.0	8.5	.0	.0	.0	78.7
W	2.5	.0	.0	.0	.0	.0	.0	2.5	.0	.0	2.5	.0	.0	.0	94.9
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.1	.0	.0	.0	87.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	5.2	.0	.0	.0	.0	.0	.0	5.2	.0	.0	9.1	.0	.0	.0	85.7
TOT OBS:	77														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	8.7	.0	.0	.0	.0	.0	.0	8.7	.0	.0	8.7	.0	.0	.0	82.6
0800	7.1	.0	.0	.0	.0	.0	.0	7.1	.0	.0	14.3	.0	.0	.0	78.6
1200	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	87.5
1800	5.9	.0	.0	.0	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	94.1
TOT PCT	5.1	.0	.0	.0	.0	.0	.0	5.1	.0	.0	9.0	.0	.0	.0	85.9
TOT OBS:	78														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	1.9	3.8	11.7	.6	.0	.0	20.1	12.8	23.0	12.3	35.0	23.0	29.4	.0	9.1	16.7
NE	.0	3.9	3.2	.6	.0	.0	7.8	13.1	.0	6.3	.0	18.8	5.9	14.9	.0	33.3
E	.0	2.6	1.9	2.6	.0	.0	7.1	16.0	3.3	23.0	.0	18.8	.0	21.4	.0	.0
SE	.0	2.6	1.0	1.9	.0	.0	6.5	19.7	3.3	6.3	.0	6.3	7.4	7.1	9.1	.0
S	.0	1.6	2.3	1.3	1.3	.0	6.5	21.3	6.7	.0	.0	17.6	.0	9.1	.0	.0
SW	1.3	4.9	4.5	4.5	.0	.0	15.3	14.7	21.7	28.1	20.0	.0	5.9	21.4	19.9	16.7
W	1.9	6.7	10.1	7.1	.0	.0	25.6	19.2	23.3	15.6	25.0	14.7	35.7	26.4	33.3	.0
NW	1.3	1.9	6.8	.6	.0	.0	10.7	15.3	16.7	6.3	9.0	6.3	13.2	.0	20.3	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALP	1.3	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	6	23	32	13	1	0	77	14.8	15	8	8	5	8	17	7	11
TOT PCT	7.8	29.9	41.4	19.3	1.3	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)								
	0-3	7-16	17-27	28-40				00	03	06	09	12	15	18	21	
N	1.9	13.3	4.2	.6	.0	20.1	12.8	20.7	28.8	20.8	11.8					
NE	.0	5.2	2.6	.0	.0	7.8	13.1	2.2	1.5	8.3	11.8					
E	.0	3.9	3.2	.0	.0	7.1	16.0	10.9	11.5	6.3	.0					
SE	.0	2.9	2.6	.0	.0	5.5	19.7	4.3	3.8	7.3	5.9					
S	.0	3.2	1.3	.0	1.3	6.5	21.3	4.3	.0	12.5	5.9					
SW	1.3	3.9	3.9	1.3	.0	13.3	14.7	23.9	7.7	10.4	16.2					
W	1.9	8.8	8.4	2.6	.0	25.6	19.2	20.7	30.8	20.8	33.3					
NW	1.3	4.2	4.5	.6	.0	10.7	15.3	13.0	5.8	9.4	13.2					
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALP	1.3	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0					
TOT OBS	12	35	25	4	1	77	14.8	12	13	24	17					
TOT PCT	15.6	45.5	32.5	5.2	1.3	100.0	100.0	100.0	100.0	100.0	100.0					

AUGUST

PERIOD: (PRIMARY) 1941-1972
(OVER-ALL) 1924-1972

AREA 0016 MAGELLAN STRAIT EAST
51.98 65.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
0000Z	.0	8.7	26.1	39.1	26.1	.0	.0	19.6	100.0	23
0600Z	.0	23.1	30.8	30.8	15.4	.0	.0	12.6	100.0	19
1200Z	4.7	.0	41.7	37.5	12.5	4.2	.0	14.4	100.0	24
1800Z	.0	.0	17.6	38.8	23.9	.0	.0	19.9	100.0	17
TOT	1	9	29	32	19	1	0	14.8		77
PCT	1.3	6.5	29.9	41.6	19.5	1.3	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	.0	.0	2.3	.0	2.3	7.0
E	.0	.0	.0	1.1	1.1	8.0
SE	.0	.0	2.8	1.1	3.9	7.2
S	.0	2.3	9.7	1.1	13.1	5.6
SW	3.4	2.8	9.7	2.3	18.2	4.6
W	9.7	9.7	10.2	1.1	30.7	3.8
NW	9.7	1.1	2.8	4.8	18.4	5.1
VAR	.0	.0	.0	.0	.0	.0
CALM	.0	.0	2.3	.0	2.3	6.0
TOT OBS	10	8	18	8	44	4.8
TOT PCT	22.7	18.2	40.9	18.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <4/8 BY WIND DIRECTION

WIND DIR	CEILING HEIGHTS (FT, NH >4/8)										NH <4/8		TOTAL OBS
	000 149	150 299	300 599	600 999	1000 1999	2000 3999	3500 4999	5000 6499	6500 7999	8000+	NH <4/8 ANY HGT	TOTAL OBS	
N	.0	.0	.0	2.3	1.7	1.7	.0	.0	.0	.0	.0	18.2	
NE	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	
SE	.0	.0	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	
S	.0	.0	.0	2.3	1.1	1.7	1.7	.0	.0	.0	.0	2.3	
SW	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	10.8	
W	.0	.0	.0	1.7	5.7	.0	1.7	.0	.0	.0	.0	17.6	
NW	.0	.0	.0	9.1	.0	.0	.0	.0	.0	.0	.0	10.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	
TOT OBS	0	0	0	5	6	4	9	0	0	0	0	24	
TOT PCT	.0	.0	.0	11.4	13.6	9.1	6.8	.0	.0	.0	.0	39.1	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>8	>2	>1	>1/2	>1/4	>5000	>0
>4900	.0	.0	.0	.0	.0	.0	.0	.0
>9000	.0	.0	.0	.0	.0	.0	.0	.0
>9500	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
>2000	13.3	19.6	15.6	19.6	19.6	19.6	19.6	19.6
>1000	22.2	26.7	26.7	28.9	28.9	28.9	28.9	28.9
>600	31.1	37.8	37.8	40.0	40.0	40.0	40.0	40.0
>300	31.1	37.8	37.8	40.0	40.0	40.0	40.0	40.0
>150	31.1	37.8	37.8	40.0	40.0	40.0	40.0	40.0
>0	31.1	37.8	37.8	40.0	40.0	40.0	40.0	40.0
TOTAL	14	17	17	18	18	18	18	18

TOTAL NUMBER OF OBS: 45

PCT FREQ NH <5/8: 60.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.6	12.5	16.7	8.3	4.2	6.3	10.4	6.3	20.8	.0	48

AUGUST

PERIOD: (PRIMARY) 1941-1972
(OVER-ALL) 1924-1972

AREA 0010 MAGELLAN STRAIT EAST
51.55 63.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	1.9	.6	.0	.0	.0	.0	.0	.0	.0	2.6
	NO PCP	2.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	2.6
	TOT %	2.6	.0	1.9	.6	.0	.0	.0	.0	.0	.0	.0	3.2
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.6	.6	.6	.6	.0	.0	.0	2.6
	TOT %	.0	.0	.0	.0	.6	.6	.6	.6	.0	.0	.0	2.6
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
	TOT %	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	4.2	3.2	2.6	1.9	1.3	3.2	9.7	.3	.0	.0	.0	28.6
	TOT %	4.2	3.2	2.6	1.9	1.3	3.2	9.7	.3	.0	.0	.0	28.6
10+	PCP	.0	.0	.0	.0	.0	1.9	.6	.0	.0	.0	.0	2.6
	NO PCP	12.7	2.6	2.6	2.9	4.5	9.4	14.8	9.1	.0	1.3	.0	39.7
	TOT %	12.7	2.6	2.6	2.9	4.5	11.4	15.3	9.1	.0	1.3	.0	62.3
TOT OBS													77
TOT PCT		20.1	7.8	7.1	5.5	6.5	15.3	25.6	10.7	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (MM)	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	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
	4-10	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
	11-21	.0	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	1.3
	22+	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	1.3
	TOT %	2.6	.0	1.9	.6	.0	.0	.0	.0	.0	.0	.0	3.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.6	.6	.0	.0	.0	1.3
	4-10	.0	.0	.0	.0	.6	.6	.0	.0	.0	.0	.0	1.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.6	.6	.6	.6	.0	.0	.0	2.6
2<5	0-3	.6	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	1.3
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.6	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	1.3
5<10	0-3	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	1.3
	4-10	.0	1.3	.6	1.9	.0	.0	3.9	.0	.0	.0	.0	7.3
	11-21	4.2	3.2	1.3	.0	.0	1.9	1.9	.3	.0	.0	.0	13.0
	22+	.0	.6	.6	.0	1.3	.0	3.9	.0	.0	.0	.0	6.3
	TOT %	4.2	5.2	2.6	1.9	1.3	3.2	9.7	.3	.0	.0	.0	28.6
10+	0-3	.0	.0	.0	.0	.0	1.3	.0	.0	.0	1.3	.0	2.6
	4-10	4.5	2.6	1.9	.6	1.0	4.2	2.6	1.9	.0	.0	.0	15.3
	11-21	7.3	.0	.0	.3	2.3	2.6	8.1	6.3	.0	.0	.0	27.3
	22+	.6	.0	.6	1.9	1.3	4.3	3.2	.6	.0	.0	.0	13.0
	TOT %	12.7	2.6	2.6	2.9	4.5	11.4	15.3	9.1	.0	1.3	.0	62.3
TOT OBS													77
TOT PCT		20.1	7.8	7.1	5.5	6.5	15.3	25.6	10.7	.0	1.3	100.0	

AUGUST

PERIOD: (PRIMARY) 1941-1972
(OVER-ALL) 1924-1972

AREA 0016 MAGELLAN STRAIT EAST
91.55 65.8W

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 3999	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000Z	.0	.0	.0	14.3	.0	7.1	7.1	.0	.0	.0	28.6	71.4	14
0600Z	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	20.0	80.0	5
1201Z	.0	.0	.0	15.4	23.1	15.4	15.4	.0	.0	.0	69.2	30.8	13
1802Z	.0	.0	.0	7.7	15.4	7.7	.0	.0	.0	.0	30.8	69.2	13
TOT	0	0	0	5	6	4	3	0	0	0	18	27	45
PCT	.0	.0	.0	11.1	13.3	8.9	6.7	.0	.0	.0	40.0	60.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000Z	.0	4.3	4.3	.0	15.0	78.3	23
0600Z	.0	14.3	.0	7.1	39.7	42.9	14
1201Z	.0	4.2	4.2	.0	41.7	50.0	24
1802Z	.0	.0	.0	.0	23.5	76.5	17
TOT	0	4	2	1	22	49	78
PCT	.0	5.1	2.6	1.3	28.2	62.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <300	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000Z	.0	.0	14.3	14.3	71.4	14
0600Z	.0	.0	.0	20.0	80.0	5
1201Z	.0	.0	23.1	46.2	30.8	13
1802Z	.0	.0	7.7	23.1	69.2	13
TOT	0	0	6	12	27	45
PCT	.0	.0	13.3	26.7	60.0	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
30/54	.0	.0	.0	.0	1.0	.0	1.0	.0	2	3.3
40/44	.0	.0	.0	.0	.0	8.2	8.2	1.0	11	16.0
40/44	.0	.0	.0	3.3	4.0	14.8	9.8	14.4	30	49.2
30/39	.0	.0	.0	1.6	9.3	8.2	6.6	9.8	18	29.5
TOTAL	0	0	0	3	6	19	16	17	61	100.0
PCT	.0	.0	.0	4.9	9.8	31.1	26.2	27.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
30/54	.0	.0	.0	.0	.0	.0	.0	3.3	.0	.0
40/44	.0	.0	.0	.0	.0	.0	4.8	3.7	.0	.0
40/44	13.5	2.5	.0	.0	2.0	8.6	16.0	4.5	.0	1.6
30/39	.0	.8	1.6	2.3	6.1	7.0	11.1	.4	.0	.0
TOTAL	23.0	3.3	1.6	2.9	8.2	16.0	31.6	11.9	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	48	47	46	40	37	35	35	40.7	23
0600Z	44	43	43	39	36	36	36	39.0	14
1201Z	39	32	48	41	31	31	31	40.8	24
1802Z	51	50	50	40	36	36	36	41.6	17
TOT	53	52	47	40	36	31	31	40.8	78

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	.0	11.1	27.8	38.9	22.2	82	18		
0600Z	.0	.0	11.1	22.2	22.2	44.4	83	9		
1201Z	.0	3.0	19.0	39.0	10.0	39.0	80	20		
1802Z	.0	13.3	.0	33.3	33.3	20.0	79	15		
TOT	0	3	6	19	16	18	81	62		

PERIOD: (PRIMARY) 1941-1972
(OVER-ALL) 1924-1972

AUGUST

AREA 0016 MAGELLAN STRAIT EAST
91.95 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	29 32	33 36	37 40	41 44	45 48	49 52	53 56	TOT	M FOG	WD FOG
9/10	.0	.0	.0	.0	.0	1.4	.0	1	.0	1.4
7/8	.0	.0	.0	.0	.0	1.4	.0	1	.0	1.4
6	.0	.0	.0	.0	1.4	.0	.0	1	.0	1.4
5	.0	.0	.0	2.7	1.4	.0	.0	3	.0	4.1
4	.0	.0	.0	2.7	2.7	.0	.0	4	.0	5.4
3	.0	.0	.0	2.7	4.1	.0	1.4	6	.0	8.1
2	.0	.0	1.4	6.8	1.4	.0	.0	7	.0	9.9
1	.0	.0	.0	1.4	1.4	.0	.0	2	.0	2.7
0	.0	.0	4.1	6.8	1.4	.0	.0	9	.0	12.2
-1	.0	.0	4.1	4.1	.0	.0	.0	6	.0	8.1
-2	.0	.0	6.8	5.4	.0	.0	.0	9	2.7	9.9
-3	.0	.0	4.1	.0	.0	.0	.0	3	.0	4.1
-4	.0	1.4	9.5	.0	.0	.0	.0	8	4.1	9.9
-5	.0	.0	5.4	.0	.0	.0	.0	4	.0	5.4
-6	.0	2.7	2.7	.0	.0	.0	.0	4	.0	5.4
-7/-8	.0	1.4	1.4	.0	.0	.0	.0	2	.0	2.7
-9/-10	2.7	1.4	.0	.0	.0	.0	.0	3	2.7	4.1
-11/-13	.0	.0	1.4	.0	.0	.0	.0	1	.0	1.4
TOTAL	2	5	30	24	10	2	1	74	7	67
PCT	2.7	6.8	40.5	32.4	13.5	2.7	1.4	100.0	9.5	90.5

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.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	.0
3-4	.0	11.3	.0	.0	.0	.0	11.3	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
81+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.3	.0	.0	.0	.0	11.3	.0	.0	.0	.0	.0	.0	.0	.0

HGT	E						PCT	SE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.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	.0
3-4	.0	.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	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
81+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1972

AUGUST

AREA 0016 MAGELLAN STRAIT EAST
51.55 65.8W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.0	5.8	.0	.0	.0	.0	5.8	.0	1.9	.0	.0	.0	.0	1.9		
1-2	.0	.0	.0	.0	.0	.0	.0	.0	7.7	.0	.0	.0	.0	7.7		
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	1.9		
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	1.9		
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	7.7	.0	.0	7.7		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.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	5.8	.0	.0	.0	.0	5.8	.0	9.6	1.9	9.6	.0	.0	21.2		

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.0	.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	3.8	7.7	.0	.0	.0	11.5		
3-4	.0	7.7	19.2	.0	.0	.0	26.9	.0	7.7	1.9	.0	.0	.0	.0	9.6		
5-6	.0	.0	.0	5.8	.0	.0	5.8	.0	.0	.0	.0	.0	.0	.0	.0		
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	7.7	.0	.0	7.7	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	7.7	19.2	13.5	.0	.0	40.4	.0	11.5	9.6	.0	.0	.0	21.2	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	7.7	.0	.0	.0	.0	7.7	
1-2	.0	23.1	7.7	.0	.0	.0	30.8	
3-4	.0	15.4	23.1	.0	.0	.0	38.5	
5-6	.0	.0	.0	7.7	.0	.0	7.7	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	7.7	.0	.0	7.7	
10-11	.0	.0	.0	7.7	.0	.0	7.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	46.2	30.8	23.1	.0	.0	100.0	13

PERIOD: (OVER-ALL) 1963-1972

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	13.3	10.0	13.3	3.3	13.3	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	5	
6-7	.0	.0	3.3	3.3	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
8-9	.0	.0	.0	3.3	.0	.0	10.0	7.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	9
10-11	.0	.0	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
12-13	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
>15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDEX	.0	.0	.0	3.3	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
TOTAL	.0	4	4	8	3	5	4	1	1	0	0	0	0	0	0	0	0	0	0	0	30	6	
PCT	.0	13.3	13.3	26.7	10.0	16.7	13.3	3.3	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0		

SEPTEMBER

PERIOD: (PRIMARY) 1934-1972
(OVER-ALL) 1922-1972

AREA 0016 MAGELLAN STRAIT EAST
51.6S 66.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZD PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FGG W/ PCPN	FGG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLNG	DUST SNOW	NO SIG MEA
N	4.3	.0	.0	.0	.0	.0	.0	4.3	.0	.0	15.2	.0	.0	.0	.0	80.4
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31.6	.0	.0	.0	.0	68.4
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29.3	.0	.0	.0	.0	44.7
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	1.5	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	98.5
W	.0	7.0	.0	.0	.0	.0	.0	7.0	.0	.0	.0	.0	.0	.0	.0	93.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.0	.0	.0	.0	.0	95.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	1.3	1.3	.0	.0	.0	.0	.0	2.7	.0	.0	8.0	.0	.0	.0	.0	89.3
TOT OBS:	79															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZD PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FGG W/ PCPN	FGG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLNG	DUST SNOW	NO SIG MEA
0300	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18.5	.0	.0	.0	.0	81.5
0600	.0	5.9	.0	.0	.0	.0	.0	5.9	.0	.0	5.9	.0	.0	.0	.0	88.2
1215	9.9	.0	.0	.0	.0	.0	.0	9.9	.0	.0	9.9	.0	.0	.0	.0	88.2
1821	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	.0	.0	.0	.0	94.4
TOT PCT	1.3	1.3	.0	.0	.0	.0	.0	2.5	.0	.0	10.1	.0	.0	.0	.0	87.3
TOT OBS:	79															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.1	12.5	12.8	3.1	1.1	.0	30.7	14.2	28.3	25.0	21.2	59.1	42.3	37.5	14.6	34.4
NE	.0	3.4	8.1	.0	.0	.0	5.5	10.6	3.3	9.1	18.4	13.8	.0	.0	10.4	.0
E	.0	1.1	.6	.0	.0	.0	1.7	7.6	3.3	.0	.0	.0	.0	.0	.0	12.9
SE	.0	2.3	.6	.0	.0	.0	2.3	9.0	.0	.0	.0	12.5	.0	12.5	.0	.0
S	.6	1.4	1.7	.9	.0	.0	4.8	12.6	3.3	4.8	3.8	6.3	9.8	.0	6.3	6.3
SW	.6	7.4	11.1	3.7	.0	.0	22.7	13.1	25.0	9.1	28.8	6.3	25.0	37.5	35.4	6.3
W	.7	3.7	8.4	2.4	.0	.0	14.8	18.1	11.7	13.6	26.9	.0	15.4	.0	25.0	12.5
NW	.0	8.0	8.1	.6	.0	.0	13.6	11.9	25.0	29.3	3.8	9.4	11.3	.0	8.3	15.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4						3.4	.0	.0	9.1	.0	.0	.0	12.5	.0	12.5
TOT OBS	3	35	39	12	1	0	88	13.2	15	11	13	8	13	8	12	3
TOT PCT	5.7	39.8	39.8	13.6	1.1	.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	6.3	10.8	11.4	2.3	.0	30.7	14.2	26.9	33.3	40.5	22.5					
NE	1.1	5.1	.3	.0	.0	5.5	10.6	5.8	14.3	.0	6.3					
E	1.1	.6	.0	.0	.0	1.7	7.6	1.9	.0	.0	5.0					
SE	.0	2.3	.0	.0	.0	2.3	9.0	.0	4.8	4.8	.0					
S	.6	3.1	.9	.0	.0	4.5	12.6	3.8	4.8	3.6	6.3					
SW	4.5	14.2	4.0	.0	.0	22.7	13.1	18.3	20.2	29.8	23.8					
W	1.7	4.8	7.4	1.1	.0	14.5	18.1	12.5	16.7	9.8	20.0					
NW	2.8	6.3	4.3	.0	.0	13.6	11.9	26.9	6.0	7.1	11.3					
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	3.4					3.4	.0	3.8	.0	4.8	5.0					
TOT OBS	19	41	25	3	0	88	13.2	36	21	21	20					
TOT PCT	21.6	46.6	28.4	3.4	.0			100.0	100.0	100.0	100.0					

SEPTEMBER

PERIOD: (PRIMARY) 1934-1972
(OVER-ALL) 1923-1972

AREA 0010 MAGELLAN STRAIT EAST
91.65 66.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4+	MEAN	PCT PRG	TOTAL OBS
				11-21	22-33	34-47				
0000	3.8	.0	50.0	38.5	7.7	.0	.0	12.3	100.0	26
0600	.0	4.8	38.1	47.6	9.5	.0	.0	12.9	100.0	21
1215	4.8	.0	33.3	28.6	28.6	4.8	.0	10.5	100.0	21
1821	3.0	3.0	33.0	43.0	10.0	.0	.0	11.2	100.0	20
TOT	3	2	33	33	12	1	0	13.2		88
PCT	3.4	2.3	39.6	39.6	13.6	1.1	.0	100.0		

TABLE 5

PCT PRG OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	.0	.0	.0	4.8	4.8	7.2
E	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0
S	4.0	1.7	.0	.0	.0	1.6
SW	12.3	2.8	9.1	9.1	4.2	3.7
W	8.5	6.3	4.5	4.5	4.2	4.2
NW	4.0	4.0	.6	.6	.6	2.8
VAR	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0
TOT OBS	16	8	10	10	44	4.2
TOT PCT	36.4	18.2	22.7	22.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000 149	150 299	300 599	400 1499	1000 3499	2000 4999	3000 6499	4000 7999	5000+	NH <5/8 ANY HGT	TOTAL OBS
NE	.0	.0	.0	.0	2.3	2.3	.0	.0	.0	.0	.6
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7
SW	.0	2.3	.0	2.3	.6	.0	.0	.0	.0	.0	24.4
W	.0	.0	2.3	.0	1.7	.0	.0	.0	.0	.0	19.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5
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	16	8	10	10	3	1	1	1	1	1	44
TOT PCT	36.4	18.2	22.7	22.7	6.8	2.3	2.3	2.3	2.3	2.3	77.3

TABLE 7

CUMULATIVE PCT PRG OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>80YD	>0
>OR >6500	.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3
>OR >4000	.0	2.3	4.5	4.5	4.5	4.5	4.5	4.5
>OR >3500	.0	2.3	6.8	6.8	6.8	6.8	6.8	6.8
>OR >2000	2.3	4.5	9.1	9.1	9.1	9.1	9.1	9.1
>OR >1000	6.8	11.4	13.9	13.9	13.9	13.9	13.9	13.9
>OR >400	9.1	13.9	18.2	18.2	18.2	18.2	18.2	18.2
>OR >300	11.4	13.9	20.5	20.5	20.5	20.5	20.5	20.5
>OR >150	11.4	13.9	22.7	22.7	22.7	22.7	22.7	22.7
>OR >0	11.4	13.9	22.7	22.7	22.7	22.7	22.7	22.7
TOTAL	3	7	10	10	10	10	10	10

TOTAL NUMBER OF OBS: 44

PCT PRG NH <5/8: 77.3

TABLE 7A

PERCENTAGE PRG OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
15.2	21.7	21.7	13.0	6.5	2.2	4.3	.0	13.2	.0	44

SEPTEMBER

PERIOD: (PRIMARY) 1934-1972
(OVER-ALL) 1922-1972

AREA 0016 MAGELLAN STRAIT EAST
51.65 66.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.4	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	2.7
	TOT %	1.4	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	2.7
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.7	1.4	.0	.0	.0	.0	.0	.7	.0	.0	.0	2.7
	TOT %	.7	1.4	.0	.0	.0	.0	.0	.7	.0	.0	.0	2.7
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	1.4
	TOT %	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	1.4
5<10	PCP	1.4	.0	.0	.0	.0	.3	1.0	.0	.0	.0	.0	2.7
	NO PCP	15.4	1.4	1.4	.0	.0	.0	.0	2.4	.0	1.4	.0	21.9
	TOT %	16.8	1.4	1.4	.0	.0	.3	1.0	2.4	.0	1.4	.0	24.7
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	12.7	3.1	.0	2.7	5.5	20.2	13.7	9.2	.0	1.4	.0	68.5
	TOT %	12.7	3.1	.0	2.7	5.5	20.2	13.7	9.2	.0	1.4	.0	68.5
TOT OBS													73
TOT PCT													31.5 6.5 2.1 2.7 5.5 21.9 14.7 12.3 .0 2.7 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	1.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	1.3	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	2.5
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
	11-21	.6	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	1.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.6	1.3	.0	.0	.0	.0	.0	.6	.0	.0	.0	2.5
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
	11-21	1.3	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	2.5
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	2.5	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	3.8
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.3	1.3
	4-10	6.3	1.3	1.3	.0	.0	.3	.9	1.3	.0	.0	.0	11.4
	11-21	4.4	.0	.0	.0	.0	.0	1.3	.6	.0	.0	.0	6.3
	22+	4.7	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	5.1
	TOT %	15.5	1.3	1.3	.0	.0	.3	2.2	2.2	.3	.0	1.3	24.1
10+	0-3	.0	.0	.0	.0	.6	.6	.0	.0	.0	1.3	2.5	2.5
	4-10	3.8	.0	.0	2.5	1.6	3.4	3.2	6.3	.0	.0	.0	22.8
	11-21	7.9	2.8	.0	1.9	11.1	4.7	1.9	.0	.0	.0	.0	30.4
	22+	.0	.0	.0	.0	.9	4.1	6.0	.3	.0	.0	.0	11.4
	TOT %	11.7	2.8	.0	2.5	5.1	21.2	13.9	6.3	.0	1.3	.0	67.1
TOT OBS													79
TOT PCT													31.6 6.0 1.9 2.5 5.1 22.8 16.1 11.4 .0 2.5 100.0

SEPTEMBER

PERIOD: (PRIMARY) 1924-1972
(OVER-ALL) 1922-1972

AREA 0016 MAGELLAN STRAIT EAST
51.65 66.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	8.3	.0	8.3	.0	.0	.0	.0	.0	.0	16.7	83.3	12
06009	.0	.0	8.3	.0	16.7	.0	.0	8.3	.0	8.3	41.7	58.3	12
12015	.0	.0	.0	.0	7.7	.0	7.7	.0	.0	.0	15.4	84.6	13
18021	.0	.0	.0	.0	.0	11.1	.0	.0	.0	.0	11.1	88.9	9
TOT	0	1	1	1	3	1	1	1	0	1	10	36	46
PCT	.0	2.2	2.2	2.2	6.5	2.2	2.2	2.2	.0	2.2	21.7	78.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	7.7	3.8	.0	3.8	19.2	65.4	26
06009	.0	.0	.0	3.3	31.6	65.2	19
12015	.0	5.3	.0	5.3	31.0	57.9	19
18021	3.6	.0	.0	.0	11.1	63.3	18
TOT	3	2	0	3	19	55	82
PCT	3.7	2.4	.0	3.7	23.2	67.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR CEILING HGT (FEET/NH >4/8) BY HOUR

HRUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND3+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	8.3	16.7	.0	83.3	12
06009	.0	9.1	18.2	27.3	54.4	11
12015	.0	.0	8.3	8.3	83.3	12
18021	.0	.0	.0	11.1	88.9	9
TOT	0	2	3	3	36	44
PCT	.0	4.5	11.4	11.4	77.3	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	1.4	1.4	1.4	.0	3	4.3
45/49	.0	.0	.0	1.4	4.3	4.3	5.7	1.4	12	17.1
40/44	.0	.0	.0	1.4	2.9	13.7	20.0	30.0	49	70.0
35/39	.0	.0	.0	.0	.0	.0	1.4	5.7	3	7.1
30/34	.0	.0	.0	.0	.0	.0	.0	1.4	1	1.4
TOTAL	0	0	0	2	6	19	20	27	70	100.0
PCT	.0	.0	.0	2.9	8.6	21.4	28.6	38.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	2.3	.4	.0	.0	.0	.0	1.4	.0	.0	.0
45/49	8.6	.0	1.4	.0	.0	1.4	2.9	.0	.0	.0
40/44	20.4	7.1	.0	.0	2.9	17.9	8.9	11.4	.0	1.4
35/39	.0	.7	.7	.0	.7	3.6	1.4	.0	.0	.0
30/34	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0
TOTAL	31.4	8.2	2.1	.0	3.6	22.9	19.1	14.3	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	46	45	45	42	38	37	37	41.9	31
06009	46	45	44	42	39	37	37	42.1	21
12015	50	53	52	42	38	34	34	43.2	23
18021	53	52	47	43	40	40	40	44.0	20
TOT	54	53	47	42	38	34	34	42.7	95

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	4.3	18.2	40.9	36.4	36	22
06009	.0	3.9	.0	17.8	29.4	47.1	35	17
12015	.0	.0	11.1	16.7	22.2	50.0	33	18
18021	.0	3.9	17.8	33.3	17.6	23.3	28	17
TOT	0	2	6	16	21	29	34	74

SEPTEMBER

PERIOD: (PRIMARY) 1934-1972
(OVER-ALL) 1922-1972

AREA 0016 MAGELLAN STRAIT EAST
51.63 66.4W

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	33 36	37 40	41 44	45 48	49 52	53 56	TOT	N PCG	NO FOG
9/10	.0	.0	.0	.0	1.3	1.3	2	.0	2.6
7/8	.0	.0	.0	1.3	.0	.0	1	.0	1.3
6	.0	.0	.0	1.3	.0	.0	1	.0	1.3
5	.0	.0	1.3	2.6	.0	.0	3	.0	3.9
4	.0	.0	.0	8.3	2.6	.0	7	.0	9.1
3	.0	.0	7.8	2.6	.0	.0	8	.0	10.4
2	.0	1.3	5.2	1.3	.0	.0	8	.0	7.8
1	.0	.0	18.2	2.6	.0	.0	18	2.6	18.2
0	.0	2.6	13.0	2.6	.0	.0	14	5.2	13.0
-1	.0	1.3	5.2	1.3	.0	.0	8	2.6	5.2
-2	.0	3.9	5.2	.0	.0	.0	7	.0	9.1
-3	.0	3.9	.0	.0	.0	.0	3	.0	3.9
-4	.0	2.6	.0	.0	.0	.0	2	.0	2.6
-7/-8	1.3	.0	.0	.0	.0	.0	1	.0	1.3
TOTAL	1	12	48	14	1	1	77	8	69
PCT	1.3	15.6	62.3	18.2	1.3	1.3	100.0	10.4	89.6

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGY	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
e1	.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	7.1	.0	.0	.0	.0	7.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	7.1	3.6	.0	.0	10.7	.0	.0	4.8	.0	.0	.0	4.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	4.8	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	4.8	.0	4.8	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.1	7.1	8.3	4.8	.0	27.4	.0	.0	4.8	.0	.0	.0	4.8

MGY	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
e1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1972

SEPTEMBER

AREA 0016 MAGELLAN STRAIT EAST
31.0S 66.4W

TABLE 18 (CONT)

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<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	4.8	.0	.0	.0	.0	4.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	.0	.0	.0	4.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	14.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	4.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	4.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	4.8	20.2	9.3	.0	.0	34.3

HGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<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	4.8	.0	.0	.0	.0	4.8
3-4	.0	.0	3.6	4.8	.0	.0	8.3	.0	2.4	.0	.0	.0	.0	2.4
5-6	.0	.0	.0	4.8	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	4.8	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	4.8	.0	.0	4.8	.0	.0	2.4	1.2	.0	.0	3.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	3.6	19.0	.0	.0	22.6	.0	7.1	2.4	1.2	.0	.0	10.7

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	.0
1-2	4.8	9.1	.0	.0	.0	.0	13.9	13.9
3-4	.0	9.1	9.1	4.8	.0	.0	22.7	22.7
5-6	.0	.0	13.6	4.8	.0	.0	18.2	18.2
7	.0	.0	13.6	13.6	.0	.0	27.3	27.3
8-9	.0	.0	.0	4.8	.0	.0	4.8	4.8
10-11	.0	.0	.0	9.1	.0	.0	9.1	9.1
12	.0	.0	.0	.0	4.8	.0	4.8	4.8
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.8	18.2	36.4	36.4	4.8	.0	100.0	22

PERIOD: (OVER-ALL) 1960-1972

TABLE 19

PERIOD'S 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	2.3	23.3	7.0	9.3	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	4
6-7	.0	.0	4.7	4.7	.0	2.3	4.7	2.3	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
8-9	.0	.0	2.3	.0	2.3	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
10-11	.0	.0	.0	.0	.0	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
12-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
>15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDST	2.3	7.0	2.3	7.0	.0	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	4
TOTAL	1	4	14	8	9	2	7	1	0	0	0	0	0	0	0	0	0	0	0	0	43	3
PCT	2.3	9.3	32.6	16.8	11.6	4.7	16.3	2.3	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1937-1972
(OVER-ALL) 1927-1972

APEA 0016 MAGELLAN STRAIT EAST
91.4S 86.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.1	.0	8.1	.0	.0	.0	.0	12.2	.0	.0	.0	.0	.0	.0	87.8
NE	.0	.0	22.2	.0	.0	.0	.0	22.2	.0	.0	.0	.0	.0	.0	77.8
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	4.8	.0	.0	.0	90.4
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24.7	1.7	.0	.0	73.6
NW	1.4	.0	.0	.0	.0	.0	.0	1.4	.0	.0	5.3	1.4	.0	.0	91.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.9	.0	1.8	.0	.0	.0	.0	2.7	.9	.0	11.5	.9	.0	.0	84.1
TOT OBS	113														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0803	3.2	.0	7.7	.0	.0	.0	.0	6.9	.0	.0	12.9	.0	.0	.0	80.6
0809	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	.0	.0	.0	93.1
1215	.0	.0	3.2	.0	.0	.0	.0	3.2	.0	.0	12.9	3.2	.0	.0	80.6
1821	.0	.0	.0	.0	.0	.0	.0	.0	4.2	.0	12.5	.0	.0	.0	83.3
TOT PCT	.9	.0	1.7	.0	.0	.0	.0	2.6	.9	.0	11.3	.9	.0	.0	84.3
TOT OBS	115														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.0	6.0	3.8	2.0	.0	.0		14.8	13.3		22.9	10.0	18.8	19.0	10.4	.0	19.6	11.5
NE	.0	.8	.8	.4	.0	.0		1.8	16.5		1.0	.0	8.3	.0	2.1	.0	1.8	.0
E	.0	.8	.0	.0	.0	.0		.8	9.0		.0	.0	5.0	.0	.0	.0	.0	.0
SE	.0	.0	1.7	.8	.0	.0		2.0	15.8		.0	.0	.0	.0	8.3	.0	.0	7.7
S	.0	.8	.4	.0	.8	.0		1.8	18.5		.0	10.0	.0	.0	2.1	.0	3.4	.0
SW	.0	.4	10.0	3.0	.2	.0		21.8	16.2		28.0	20.0	18.3	29.0	20.8	39.0	17.9	15.4
W	.0	4.1	24.4	8.8	2.7	.0		39.4	18.0		40.6	40.0	32.5	49.0	40.8	62.5	35.7	42.3
NW	.0	2.0	7.6	4.8	1.0	.0		15.4	18.2		9.4	20.0	18.3	19.0	9.4	22.5	19.6	23.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALP	2.4							2.4	.0		.0	.0	3.0	.0	8.3	.0	.0	.0
TOT OBS	3	26	64	27	9	0	179		16.4		24	10	20	10	24	10	14	13
TOT PCT	2.4	20.8	51.7	21.8	4.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40					00	06	12	18	
N	2.0	8.4	3.8	.8	.0		14.8	13.3		19.1	17.5	7.4	13.7
NE	.0	.8	.8	.2	.0		1.8	16.5		7	4.2	1.5	.9
E	.8	.0	.0	.0	.0		.8	9.0		.0	3.3	.0	.0
SE	.0	1.2	.3	.0	.0		2.0	15.8		.0	.0	4.4	3.7
S	.0	1.2	.0	.8	.0		1.8	18.5		2.9	.0	1.5	2.8
SW	.4	11.8	7.7	2.2	.0		21.6	16.2		24.3	19.2	25.0	16.7
W	2.0	16.4	16.8	3.4	.8		39.4	18.0		40.4	30.7	41.2	38.9
NW	.4	7.4	6.6	1.0	.0		15.4	18.2		12.5	15.8	13.2	21.3
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0
CALP	4.4						2.4	.0		.0	3.3	5.9	.0
TOT OBS	10	59	49	10	1	124		16.4		34	50	34	27
TOT PCT	8.0	47.2	36.0	8.0	.8		100.0			100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1957-1972
(OVER-ALL) 1927-1972

AREA 0016 MADOLLAN STRAIT EAST
51.45 66.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GPT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4R+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	.0	.0	14.7	61.8	23.5	.0	.0	16.4	100.0	34
0600	3.3	.0	30.0	40.0	20.0	6.7	.0	16.5	100.0	30
1200	5.9	.0	17.6	47.1	23.5	5.9	.0	18.8	100.0	34
1800	.0	.0	22.2	59.6	18.5	3.7	.0	19.6	100.0	27
TOT	3	0	26	64	27	5	0	16.4		129
PCT	2.4	.0	20.8	51.2	21.6	4.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS(0)	TOTAL OBS	MEAN CLOUD COVER
NP	.0	.0	2.2	1.7		7.3
E	.0	.0	1.7	.0		6.0
SE	.0	.0	.0	4.3		8.0
S	.0	.0	1.3	.0		6.8
SW	3.6	3.6	6.9	4.3		4.6
W	10.8	1.7	19.1	6.9		4.2
NW	4.3	1.7	.9	2.2		3.0
VAP	.0	.0	.0	.0		.0
CALM	1.7	.0	1.7	.0		3.5
TOT OBS	17	4	22	19	99	4.8
TOT PCT	29.3	6.9	37.9	29.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <4/8 BY WIND DIRECTION

OBS	CEILING HEIGHTS (FT, NH >4/8)										NH <4/8		TOTAL OBS
	149	150	300	600	1000	2000	3500	5000	6500	8000+	ANY HGT	ANY HGT	
149	.0	.0	.0	3.0	3.0	1.7	.0	.0	.0	.0	3.0	11.4	
150	.0	.0	.0	.0	.4	1.7	.0	.0	.0	.0	.4	4.6	
300	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	1.7	
600	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1000	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	
2000	.0	.0	.0	.0	3.6	2.2	1.7	.0	.0	.0	.0	10.8	
3500	.0	.0	.0	1.7	3.4	3.0	3.0	.0	.0	.0	.0	20.7	
5000	.0	.0	.0	.4	.0	1.7	.4	.0	.0	.0	.0	6.5	
6500	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8000+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	1	4	8	6	4	1	0	2	31	98	
TOT PCT	.0	.0	1.7	6.9	13.8	10.3	6.4	1.7	.0	3.4	33.4	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>8000	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
>6000	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
>4000	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
>2000	20.3	23.7	23.7	23.7	23.7	23.7	23.7	23.7
>1000	30.5	39.0	39.0	39.0	39.0	39.0	39.0	39.0
>600	39.7	45.8	45.8	45.8	45.8	45.8	45.8	45.8
>300	39.6	47.5	47.5	47.5	47.5	47.5	47.5	47.5
>150	39.6	47.5	47.5	47.5	47.5	47.5	47.5	47.5
>0	39.6	47.5	47.5	47.5	47.5	47.5	47.5	47.5
TOTAL	21	26	26	26	26	26	26	26

TOTAL NUMBER OF OBS: 99 PCT FREQ NH <4/8: 52.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBS(0)	TOTAL OBS
29.6	11.9	11.9	3.4	.0	8.5	10.2	7.5	20.3	.0

OCTOBER

PERIOD: (PRIMARY) 1932-1972
(OVER-ALL) 1922-1972

AREA 0016 MAGELLAN STRAIT EAST
51.45 66.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<3	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	3.9	.2	.0	.9	.0	2.5	20.8	8.4	.0	.0	37.2	
	TOT S	3.9	.2	.0	.9	.0	2.5	20.8	8.4	.0	.0	37.2	
10+	PCP	2.0	.4	.0	.0	.0	.0	.0	.2	.0	.0	2.7	
	NO PCP	11.1	1.3	.9	1.3	2.0	14.8	18.6	7.5	.0	2.7	62.2	
	TOT S	13.1	1.8	.9	1.3	2.0	14.8	18.6	7.7	.0	2.7	62.2	
TOT OBS													113
TOT PCT		16.4	2.0	.9	2.2	2.0	18.4	39.4	16.2	.0	2.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (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	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<3	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.9	.0	.0	.0	.0	.4	1.3	.9	.0	.0	3.5	
	11-21	1.8	.0	.0	.0	.0	2.2	14.2	4.0	.0	.0	22.1	
	22+	.7	.2	.0	.9	.0	.9	3.3	3.3	.0	.0	11.3	
	TOT S	3.3	.2	.0	.9	.0	3.3	20.8	8.4	.0	.0	37.2	
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	2.7	
	4-10	3.8	.9	.9	.9	.9	6.4	2.7	4.4	.0	.0	19.9	
	11-21	3.8	.7	.0	1.3	.4	7.7	10.6	4.4	.0	.0	31.0	
	22+	1.3	.2	.0	.0	.7	2.7	3.3	2.9	.0	.0	13.3	
	TOT S	13.1	1.8	.9	1.3	2.0	14.8	18.6	7.7	.0	2.7	62.2	
TOT OBS													113
TOT PCT		16.4	2.0	.9	2.2	2.0	18.4	39.4	16.2	.0	2.7	100.0	

OCTOBER

PERIOD: (PRIMARY) 1922-1972
(OVER-ALL) 1922-1972

AREA 0016 MAGELLAN STRAIT EAST
51.45 56.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <3/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
0000	149	299	399	999	1999	3499	4999	6499	7999				
0003	.0	.0	.0	15.4	30.8	15.4	7.7	.0	.0	.0	69.2	30.8	13
0609	.0	.0	.0	5.6	11.1	16.7	5.6	.0	.0	5.6	44.4	55.6	18
1215	.0	.0	5.6	5.6	11.1	5.6	16.7	5.6	.0	.0	50.0	50.0	18
1821	.0	.0	.0	.0	10.0	.0	.0	.0	.0	10.0	20.0	80.0	10
TOT	0	0	1	4	9	6	3	1	0	2	28	31	59
PCT	.0	.0	1.7	6.8	15.3	10.2	8.3	1.7	.0	3.4	47.5	52.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
0003	.0	.0	.0	.0	45.2	54.8	31
0609	.0	.0	.0	.0	27.6	72.4	29
1215	.0	.0	.0	.0	41.9	58.1	31
1821	.0	.0	.0	.0	37.3	62.7	24
TOT	0	0	0	0	44	71	115
PCT	.0	.0	.0	.0	38.3	61.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR CEILING HGT (FEET, NH >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NH <3/8	TOTAL
0003	.0	.0	15.4	53.8	30.8	13
0609	.0	.0	5.6	38.9	55.6	18
1215	.0	5.6	11.1	38.9	50.0	18
1821	.0	.0	.0	20.0	80.0	10
TOT	0	1	3	23	31	59
PCT	.0	1.7	8.3	39.0	52.5	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	PCT
55/59	.0	1.0	.0	.0	.0	.0	.0	.0	1	1.0
50/54	.0	.0	.0	1.0	2.9	.0	.0	.0	4	3.6
45/49	.0	.0	.0	3.9	11.4	16.2	13.3	3.8	31	48.6
40/44	.0	.0	.0	1.0	9.7	11.4	19.2	10.3	46	43.8
35/39	.0	.0	.0	.0	1.0	1.0	.0	1.0	3	2.9
TOTAL	0	1	0	9	20	33	30	16	105	100.0
PCT	.0	1.0	.0	4.8	19.0	31.4	28.6	15.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
50/54	.0	.0	.0	1.0	.0	1.2	.7	1.0	.0	.0
45/49	10.7	1.4	1.0	1.0	.7	9.5	19.0	7.4	.0	1.9
40/44	2.1	.7	.0	.3	.9	10.2	26.0	2.9	.0	1.4
35/39	.0	.0	.0	.0	.0	1.0	1.9	.0	.0	.0
TOTAL	13.8	2.1	1.0	2.4	1.2	21.9	43.6	11.2	.0	2.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
0003	50	49	49	44	39	38	39	43.9	36
0609	51	50	50	44	39	38	39	43.9	30
1215	50	49	48	44	39	35	45	43.9	35
1821	58	57	57	46	43	42	42	46.7	28
TOT	58	59	50	44	39	38	35	44.5	129

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
0003	.0	3.8	19.2	24.9	38.5	11.5			77	36
0609	.0	3.8	11.5	28.9	42.3	13.4			40	26
1215	.0	3.3	23.3	23.3	26.7	23.3			79	30
1821	.0	12.5	20.8	50.0	4.2	12.5			71	24
TOT	0	6	20	33	30	17			77	106

OCTOBER

PERIOD: (PRIMARY) 1937-1972
(OVER-ALL) 1922-1972

AREA 0016 MAGELLAN STRAIT EAST
51.4S 66.4W

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	33	37	41	45	49	53	57	TOT	N	NO
	36	40	44	48	52	56	60		FOG	FOG
14/16	.0	.0	.0	.0	.0	.0	.9	1	.0	.9
9/10	.0	.0	.0	.0	.0	.9	.0	1	.0	.9
7/8	.0	.0	.0	.9	3.6	.0	.0	5	.0	4.5
6	.0	.0	.0	2.7	.9	.0	.0	4	.0	3.6
5	.0	.0	.0	3.4	2.7	.0	.0	9	.0	8.1
4	.0	.0	.9	3.6	.0	.0	.0	5	.9	3.6
3	.0	.0	1.8	13.5	.0	.0	.0	17	2.7	12.6
2	.0	.0	3.4	4.5	.9	.0	.0	12	1.8	9.0
1	.0	.0	3.4	2.7	.0	.0	.0	9	.0	8.1
0	.0	.0	10.8	4.5	.0	.0	.0	17	3.6	11.7
-1	.0	3.6	10.8	.0	.0	.0	.0	18	.0	14.4
-2	.0	.0	3.6	.9	.0	.0	.0	5	1.8	2.7
-3	.0	.9	.9	.0	.0	.0	.0	2	.0	1.8
-4	.0	.9	1.8	.0	.0	.0	.0	3	.0	2.7
-5	.0	.9	1.8	.0	.0	.0	.0	3	.0	2.7
-7/-8	.9	.9	.0	.0	.0	.0	.0	2	.0	1.8
TOTAL	1	8	43	9	1	1	1	111	12	99
PCT	.9	7.2	43.2	38.7	8.1	.9	.9	100.0	10.8	89.2

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	NE						PCT	SE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.0	3.6	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.1	.0	.0	.0	.0	7.1	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	7.1	.0	.0	.0	.0	13.4	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	2.7	.0	.0	2.7	.0	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	17.9	6.3	2.7	.0	.0	26.8	.0	.0	.0	.9	.0	.0	.0	.9

HGT	SE						PCT	NE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	.0	.0	.0	3.6
1-2	.0	.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	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	.0	.0	.0	3.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	3.6	.0	.0	7.1

PERIOD: (OVER-ALL) 1963-1972

OCTOBER

AREA 0016 MAGELLAN STRAIT EAST
51.4S 66.4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<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	3.6	.0	.0	.0	3.6
3-4	.0	.0	.0	.0	.0	.0	.0	.0	3.6	7.1	.0	.0	.0	10.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0	.0	.0	4.5
7	.0	.0	.0	.0	2.7	.0	2.7	.0	.0	.0	.0	.9	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	2.7	.0	2.7	.0	.0	3.6	13.2	.0	.9	19.8

HGT	M						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	3.6	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.6	4.5	.0	.0	.0	13.4	.0	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.0	3.6	.0	.0	.0	3.6	.0	.0	.9	.0	.0	.0	.0	.9
5-6	.0	.0	7.1	.0	.0	.0	2.7	.0	.0	.9	.0	.0	.0	.0	.9
7	.0	.0	7.1	.0	4.5	.0	8.9	.0	.0	.9	.0	.9	.0	1.8	.0
8-9	.0	.0	.0	.0	3.6	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.1	18.8	.0	9.8	.0	33.7	.0	.0	2.7	.0	.9	.0	3.6	96.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.6	7.1	3.6	.0	.0	.0	14.3	28
1-2	.0	10.7	14.3	.0	.0	.0	25.0	
3-4	.0	10.7	17.9	.0	.0	.0	28.6	
5-6	.0	.0	7.1	3.6	.0	.0	10.7	
7	.0	.0	3.6	.0	10.7	.0	14.3	
8-9	.0	.0	.0	3.6	3.6	.0	7.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.6	28.6	48.4	7.1	14.3	.0	100.0	

PERIOD: (OVER-ALL) 1951-1972

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	9.6	15.4	3.8	3.8	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	4
6-7	.0	.0	3.8	21.2	9.6	3.8	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	6
8-9	.0	.0	.0	1.9	.0	3.8	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	9
10-11	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
12-13	.0	.0	1.9	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
13	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDPT	3.8	.0	.0	.0	1.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
TOTAL	2	5	11	15	8	7	3	0	1	0	0	0	0	0	0	0	0	0	0	32	5
PCT	3.8	9.6	21.2	28.8	15.4	13.5	5.8	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1922-1973

AREA 0016 MAGELLAN STRAIT EAST
51.55 65.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	3.2	3.2	.0	.0	.0	.0	6.5	.0	.0	.0	.0	.0	.0	93.3
NE	.0	.0	5.3	.0	.0	.0	.0	5.3	10.5	.0	.0	.0	.0	.0	84.2
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	2.7	.0	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	97.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS:	.0	1.2	1.2	.0	.0	.0	.0	2.3	1.2	.0	.0	.0	.0	.0	96.5

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
0800	.0	4.0	.0	.0	.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	96.0
1200	.0	.0	3.7	.0	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	96.3
1800	.0	.0	.0	.0	.0	.0	.0	.0	5.3	.0	.0	.0	.0	.0	96.7
TOT OBS:	.0	1.1	1.1	.0	.0	.0	.0	2.2	1.1	.0	.0	.0	.0	.0	96.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.3	3.8	11.4	.0	.0	.0		17.7	12.9	30.4	.0	12.3	5.8	21.9	10.0	19.4	20.0
NE	2.0	3.8	9.8	.0	.0	.0		9.6	10.7	3.6	25.0	3.0	11.1	9.4	10.0	12.3	20.0
E	.0	2.0	1.0	.0	.0	.0		3.0	9.3	7.1	.0	3.0	.0	.0	20.0	.0	.0
SE	.0	1.3	.0	.0	.0	.0		1.3	7.6	.0	.0	3.0	.0	2.1	.0	.0	.0
S	.0	2.3	.0	.0	.0	.0		2.8	8.0	.0	.0	.0	8.3	4.2	.0	3.6	.0
SW	1.0	4.8	7.5	3.8	.3	.0		17.2	14.4	23.2	.0	28.8	2.8	21.9	.0	12.3	3.3
W	.0	10.1	10.1	5.3	2.8	.0		28.3	16.6	17.9	30.0	21.3	19.4	30.2	10.0	4.4	35.0
NW	1.5	9.1	7.3	1.0	1.0	.0		19.9	12.9	17.9	25.0	22.3	32.8	10.4	30.0	3.6	26.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS:	5	39	41	10	4	0	99		13.6	14	4	20	9	24	5	18	3
TOT PCT:	5.1	39.4	41.4	10.1	4.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	2.0	10.6	5.1	.0	.0		17.7	12.9	23.6	10.3	19.8	19.6
NE	2.0	5.1	2.3	.0	.0		9.6	10.7	8.3	6.9	9.3	14.1
E	1.0	2.0	.0	.0	.0		3.0	9.3	7.0	3.4	3.4	.0
SE	.0	1.3	.0	.0	.0		1.3	7.6	.0	3.4	1.7	.0
S	1.8	.3	.3	.0	.0		2.8	8.0	.0	2.6	3.4	4.3
SW	4.3	5.6	6.8	.3	.0		17.2	14.4	18.1	20.7	13.1	10.9
W	4.3	10.6	9.8	3.3	.0		28.3	16.6	23.0	20.7	26.7	42.4
NW	3.8	10.6	4.5	1.0	.0		19.9	12.9	19.4	21.9	17.2	8.7
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:	19	16	29	3	0	99		13.6	18	29	29	23
TOT PCT:	19.2	46.5	29.3	3.1	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1922-1973

AREA 0016 MACELLAN STRAIT EAST
91.55 65.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	.0	.0	22.2	61.1	11.1	3.6	.0	14.9	100.0	18
0600	.0	10.3	44.8	31.7	10.3	3.4	.0	12.4	100.0	29
1200	.0	3.4	41.4	37.9	13.8	3.4	.0	14.3	100.0	29
1800	.0	4.2	43.3	47.3	4.3	4.3	.0	13.4	100.0	23
TOT	0	8	39	41	10	4	0	13.6		99
PCT	.0	3.1	39.4	41.4	10.1	4.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	.0	.4	3.3	.0		6.4
E	.0	1.6	.0	.0		3.0
SE	.0	.0	.8	1.6		7.6
S	.8	.0	2.9	.7		5.0
SW	7.0	7.0	8.6	.7		3.6
W	6.1	3.7	8.4	2.4		4.9
NW	1.6	3.7	6.1	4.9		3.3
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	61	4.8
TOT OBS	11	16	23	9		
TOT PCT	10.0	20.2	47.0	14.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <4/8 BY WIND DIRECTION

WIND DIR	CEILING HEIGHTS (FT)										NH <4/8 ANY HGT	TOTAL OBS
	000	100	200	300	400	500	600	700	800	900		
N	.0	.0	.0	.0	4.5	.0	3.3	.0	.0	.0	.0	10.2
NE	.0	.0	.0	.0	.4	1.6	.0	.0	.0	.0	.0	3.7
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3
SW	.0	.0	.0	.0	2.0	.0	.4	1.6	.0	.0	.0	19.3
W	.0	.0	1.6	.0	2.9	1.6	1.2	.0	.0	.0	1.2	18.4
NW	.0	.0	.0	.0	4.9	1.6	.0	.0	1.6	.4	.0	9.8
VAR	.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
TOT OBS	0	0	1	0	9	3	3	1	1	1	1	42
TOT PCT	.0	.0	1.6	.0	14.8	4.9	4.9	1.6	1.6	1.6	1.6	68.9

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>8	>6	>4	>3	>2	>1/2	>1/4
>4500	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
>3000	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
>2500	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
>2000	11.3	14.5	14.5	14.5	14.5	14.5	14.5	14.5
>1000	23.8	30.6	32.3	32.3	32.3	32.3	32.3	32.3
>800	23.8	30.6	32.3	32.3	32.3	32.3	32.3	32.3
>600	27.4	32.3	33.9	33.9	33.9	33.9	33.9	33.9
>450	27.4	32.3	33.9	33.9	33.9	33.9	33.9	33.9
>300	27.4	32.3	33.9	33.9	33.9	33.9	33.9	33.9
TOTAL	17	20	21	21	21	21	21	21

TOTAL NUMBER OF OBS: 62

PCT FREQ NH <5/8: 66.1

TABLE 7A

PERCENTAGE FREQ OF COW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.9	9.0	13.4	14.9	10.4	9.0	7.5	10.4	7.5	.0	67

NOVEMBER

PERIOD: (PRIMARY) 1946-1973
(OVER-ALL) 1922-1973

AREA 0016 MADOLLAN STRAIT EAST
51.95 65.8W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	3.5	7.6	2.3	.0	.0	.0	7.6	5.8	.0	.0	26.7	.0
	TOT %	3.5	7.6	2.3	.0	.0	.0	7.6	5.8	.0	.0	26.7	.0
10+	PCP	.6	.0	.0	.0	.0	.0	.0	.6	.0	.0	1.2	.0
	NO PCP	13.4	2.9	1.2	1.7	2.3	17.7	16.3	13.4	.0	.0	70.9	.0
	TOT %	14.0	2.9	1.2	1.7	2.3	17.7	16.3	14.0	.0	.0	72.1	.0
TOT OBS													
TOT PCT		18.0	11.0	3.5	1.7	2.3	17.7	23.8	21.8	.0	.0	100.0	

86

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (MM)	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	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.6	.6	.0	.0	1.1	.0
	TOT %	.0	.0	.0	.0	.0	.0	.6	.6	.0	.0	1.1	.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	2.3	3.4	1.1	.0	.0	.0	4.0	4.0	.0	.0	14.9	.0
	11-21	1.1	4.0	1.1	.0	.0	.0	1.1	1.7	.0	.0	9.2	.0
	22+	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	2.3	.0
	TOT %	3.4	7.5	2.3	.0	.0	.0	7.3	5.7	.0	.0	26.4	.0
10+	0-3	.6	2.3	.0	.0	.0	1.1	.0	1.7	.0	.0	3.7	.0
	4-10	3.7	.3	1.1	1.7	1.7	3.7	4.9	3.7	.0	.0	23.0	.0
	11-21	4.3	.3	.0	.0	.6	8.0	4.9	6.6	.0	.0	29.9	.0
	22+	.0	.0	.0	.0	.0	4.6	6.3	1.7	.0	.0	12.6	.0
	TOT %	13.8	2.9	1.1	1.7	2.3	17.5	16.1	15.8	.0	.0	71.3	.0
TOT OBS													
TOT PCT		17.8	10.9	3.4	1.7	2.3	17.5	24.1	22.1	.0	.0	100.0	

87

NOVEMBER

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1922-1973

AREA 0016 MAGELLAN STRAIT EAST
51.55 65.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	100	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000Z	.0	.0	.0	.0	21.4	.0	14.3	.0	.0	.0	35.7	64.3	14
0600Z	.0	.0	.0	.0	6.7	.0	.0	.0	6.7	6.7	20.0	80.0	15
1201Z	.0	.0	5.3	.0	21.1	5.3	5.3	5.3	.0	.0	42.1	57.9	19
1802Z	.0	.0	.0	.0	17.6	11.8	.0	.0	.0	.0	29.4	70.6	17
TOT	0	0	1	0	11	3	3	1	1	1	21	44	65
PCT	.0	.0	1.5	.0	16.9	4.6	4.6	1.5	1.5	1.5	32.3	67.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000Z	.0	.0	.0	5.6	33.3	61.1	18
0600Z	.0	.0	.0	.0	24.0	76.0	25
1201Z	.0	3.7	.0	.0	27.2	74.1	27
1802Z	.0	.0	.0	5.0	25.0	70.0	20
TOT	0	1	0	2	23	64	90
PCT	.0	1.1	.0	2.2	25.6	71.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR CEILING HGT (FEET) NH >4/8) BY HOUR

HOUR (GMT)	<150 <50V0	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
0000Z	.0	.0	7.1	28.6	64.3	14
0600Z	.0	.0	.0	21.4	76.6	14
1201Z	.0	3.6	5.6	38.9	55.6	18
1802Z	.0	.0	.0	31.3	68.8	16
TOT	0	1	2	19	41	62
PCT	.0	1.6	3.2	30.6	66.1	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
55/59	.0	.0	.0	.0	1.3	.0	1.3	.0	2	2.5
50/54	.0	.0	1.3	1.3	6.8	4.3	10.0	1.3	21	26.3
45/49	.0	.0	.0	2.8	5.0	12.5	22.5	8.8	41	51.3
40/44	.0	.0	.0	1.3	5.0	6.3	5.0	.0	14	17.5
35/39	.0	.0	.0	.0	1.3	1.3	.0	.0	2	2.5
TOTAL	0	0	1	8	11	20	33	12	80	100.0
PCT	.0	.0	1.3	7.8	13.8	25.0	41.3	15.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.0	.0	.0	.0	.0	1.3	.0	1.3	.0	.0
50/54	10.0	1.3	.0	1.3	.0	2.5	7.2	3.4	.0	.0
45/49	7.5	1.1	1.3	.0	1.9	6.7	19.1	13.8	.0	.0
40/44	1.3	.0	.0	.6	1.6	3.9	5.6	2.5	.0	.0
35/39	.0	.0	.0	.0	.0	.0	1.3	1.3	.0	.0
TOTAL	18.8	5.0	1.3	1.9	3.4	14.4	33.1	22.2	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEC F) BY HOUR

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	55	54	54	47	42	42	42	47.7	19
0600Z	54	53	53	46	40	39	39	45.6	30
1201Z	57	56	55	47	43	42	42	47.2	31
1802Z	54	53	53	50	43	37	37	49.3	24
TOT	57	55	54	47	42	37	37	47.4	104

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	13.3	20.0	6.7	46.7	13.3	78	15		
0600Z	.0	.0	12.5	20.8	41.7	25.0	81	24		
1201Z	.0	4.2	17.5	33.3	27.5	12.5	79	24		
1802Z	.0	5.0	10.0	40.0	35.0	10.0	79	20		
TOT	0	4	11	22	33	13	79	83		

NOVEMBER

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1922-1973

AREA 0016 MABELLAN STRAIT EAST
31.88 69.24

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	43 46	44 52	53 56	57 60	TOT	% FOG	NO FOG
9/10	.0	.0	.0	.0	2.3	1.2	3	.0	3.5
7/8	.0	.0	.0	.0	2.3	.0	2	.0	2.9
6	.0	.0	1.2	2.3	4.7	.0	7	.0	9.1
5	.0	.0	1.2	2.3	.0	.0	3	.0	3.9
4	.0	.0	1.2	2.3	.0	.0	4	.0	7.0
3	.0	.0	12.9	5.8	2.3	.0	18	.0	20.9
2	.0	1.2	3.9	.0	.0	.0	4	.0	4.7
1	.0	2.3	7.0	1.2	.0	.0	9	.0	10.3
0	.0	3.9	4.7	2.3	2.3	.0	11	.0	12.9
-1	.0	7.0	7.0	1.2	.0	.0	13	.0	13.1
-2	.0	2.3	1.2	.0	.0	.0	3	.0	3.9
-3	.0	2.3	1.2	1.2	.0	.0	4	.0	4.7
-4	.0	1.2	.0	.0	.0	.0	1	.0	1.2
-5	.0	.0	1.2	.0	.0	.0	1	.0	1.2
-6	1.2	.0	.0	.0	.0	.0	1	.0	1.2
TOTAL	1	17	36	19	12	1	86	0	86
PCT	1.2	19.8	41.9	22.1	14.0	1.2	100.0		100.0

PERIOD: (OVER-ALL) 1948-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	8.8	.0	.0	.0	8.8	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	2.3	2.3	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	10.3	.0	.0	.0	10.3	.0	.0	.6	.0	.0	.0	.0	.6

HGT	E						PCT	Sd						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	2.3
3-4	.0	.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	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	2.3

PERIOD: (OVER-ALL) 1963-1973

NOVEMBER

AREA 0016 MAGELLAN STRAIT EAST
51.33 65.6W

TABLE 18 (CONT)

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							TOTAL PCT
	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	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	2.3	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.6	5.0	.0	.0	.0	5.6	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	3.1	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	.0	.0	5.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	3.1	5.0	9.4	.0	.0	18.1	.0

HGT	W							NW							TOTAL PCT
	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	.0
1-2	.0	1.9	.0	.0	.0	.0	1.9	.0	3.1	.0	.0	.0	.0	3.1	.0
3-4	.0	4.4	0.9	3.0	.0	.0	10.3	.0	3.6	6.3	.0	.0	.0	11.9	.0
5-6	.0	1.9	2.0	.0	.0	.0	6.9	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	1.9	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	2.3	.0	2.3	.0	.0	5.0	.0	.0	.0	5.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	2.3	.0
12	.0	.0	.0	1.9	2.5	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.9	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	1.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.1	11.9	10.6	6.9	.0	37.5	.0	8.8	11.3	.0	2.3	.0	22.5	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	.0
1-2	.0	10.0	2.3	.0	.0	.0	12.3	.0
3-4	.0	10.0	22.3	9.0	.0	.0	37.3	.0
5-6	.0	9.0	12.3	.0	.0	.0	17.3	.0
7	.0	.0	.0	9.0	.0	.0	9.0	.0
8-9	.0	.0	7.3	9.0	2.3	.0	13.0	.0
10-11	.0	.0	.0	.0	2.3	.0	2.3	.0
12	.0	.0	.0	2.3	2.3	.0	5.0	.0
13-16	.0	.0	.0	2.3	.0	.0	2.3	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	2.3	.0	2.3	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	25.0	49.0	20.0	10.0	.0	100.0	40

PERIOD: (OVER-ALL) 1951-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
46	.0	10.2	20.4	8.2	.0	12.2	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	5
8-9	.0	.0	8.1	2.0	6.1	.0	12.2	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	8
8-9	.0	.0	2.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
12-13	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	14
713	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
INDBT	.0	.0	.0	4.1	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
TOTAL	.0	9	14	8	5	7	6	2	1	.0	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	6
PCT	.0	10.2	28.6	16.3	10.2	14.3	12.2	4.1	2.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1954-1973
(OVER-ALL) 1937-1973

AREA 0016 MAGELLAN STRAIT EAST
51.85 66.54

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FUG WD PCPN PAST HR	SHOKE HAZE	SPRAY BLWG DUST	NO SIG NEA
N	.0	6.0	6.0	.0	.0	.0	.0	11.9	.0	.0	14.9	.0	.0	.0	73.1
NE	.0	21.8	.0	.0	.0	.0	.0	21.8	7.3	.0	3.6	.0	.0	.0	67.3
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	5.8	3.8	.0	.0	.0	.0	.0	9.6	.0	1.9	1.9	.0	.0	.0	88.5
NW	29.4	.0	.0	.0	.0	.0	.0	29.4	.0	17.8	5.9	.0	.0	.0	64.7
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	4.8	6.0	1.2	.0	.0	.0	.0	11.9	1.2	2.4	4.8	.0	.0	.0	82.1
TOT OBS:	84														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FUG WD PCPN PAST HR	SHOKE HAZE	SPRAY BLWG DUST	NO SIG NEA
0000	9.4	9.4	.0	.0	.0	.0	.0	18.8	3.1	0.3	3.1	.0	.0	.0	73.0
0600	5.3	.0	.0	.0	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	94.7
1200	.0	8.3	8.3	.0	.0	.0	.0	12.5	.0	.0	12.5	.0	.0	.0	75.0
1800	.0	5.6	.0	.0	.0	.0	.0	5.6	.0	.0	5.6	.0	.0	.0	88.9
TOT PCT	4.7	5.9	1.2	.0	.0	.0	.0	11.8	1.2	2.4	4.7	.0	.0	.0	82.4
TOT OBS:	85														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.0	4.3	14.5	1.9	.0	.0	20.7	14.0	5.2	.0	23.6	33.3	33.3	50.0	16.7	30.0
NE	1.1	1.1	11.6	2.2	.0	.0	15.9	16.7	19.0	75.0	6.9	.0	.0	.0	20.0	33.3
E	.0	.0	2.2	.0	.0	.0	2.2	10.8	3.4	.0	11.1	.0	.0	.0	6.7	16.7
SE	.0	2.2	.0	.0	.0	.0	2.2	10.0	3.4	.0	.0	.0	8.3	.0	.0	.0
S	.0	1.1	4.3	.0	.8	.0	6.2	17.1	6.0	.0	8.3	25.0	.0	.0	11.7	.0
SW	.0	2.2	7.0	.3	1.6	.0	11.0	18.3	12.9	.0	8.3	8.3	8.3	16.7	13.3	.0
W	2.2	4.0	12.6	8.3	1.9	.0	29.0	19.2	36.2	.0	38.9	33.3	37.5	25.0	16.7	.0
NW	.0	1.3	7.0	1.3	.0	.0	9.7	16.3	13.8	25.0	2.8	.0	12.5	8.3	10.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	3	18	55	13	4	0	93	16.6	29	4	18	3	12	6	15	6
TOT PCT	3.2	19.4	59.1	14.0	4.3	.0	100.0	16.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40				03	06	09	12	18	21
N	2.2	12.6	5.9	.0	.0	20.7	14.0	4.5	25.0	38.9	26.2		
NE	1.1	6.3	7.3	1.1	.0	15.9	16.7	25.8	4.0	.0	23.8		
E	.0	3.4	.0	.0	.0	3.4	10.8	3.0	9.5	.0	9.5		
SE	.0	2.2	.0	.0	.0	2.2	10.0	3.0	.0	5.6	.0		
S	1.1	2.7	1.6	.8	.0	6.2	17.1	5.2	10.7	.0	6.3		
SW	2.2	4.3	2.7	.8	1.1	11.0	18.3	11.4	8.3	11.1	13.1		
W	3.0	8.9	10.8	6.5	.0	29.0	19.2	31.8	38.1	33.3	11.9		
NW	.3	4.8	4.0	.5	.0	9.7	16.3	13.2	2.4	11.1	7.1		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT OBS	9	44	30	9	1	93	16.6	33	21	18	21		
TOT PCT	9.7	47.3	32.3	9.7	1.1	100.0	16.6	100.0	100.0	100.0	100.0		

DECEMBER

PERIOD: (PRIMARY) 1956-1973
(OVER-ALL) 1932-1973

AREA 0016 MAGELLAN STRAIT EAST
51.05 66.54

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GPT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
0000Z	.0	9.1	15.2	63.6	9.1	3.0	.0	15.7	100.0	33
0600Z	.0	.0	14.3	66.7	14.3	4.8	.0	17.7	100.0	21
1200Z	.0	.0	27.8	50.0	16.7	5.6	.0	17.0	100.0	18
1800Z	.0	.0	29.8	52.4	19.0	4.8	.0	16.6	100.0	21
TOT	0	3	18	53	13	4	0	16.6		93
PCT	.0	3.2	19.4	59.1	14.0	4.3	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 8 OBSCD	TOTAL OBS	MEAN CLOUD COVER	WIND DIRECTION											TOTAL OBS				
							N	NE	E	SE	S	SW	W	NW	VAR	CALM	TOT OBS		TOT PCT			
N	1.6	1.6	7.0	4.8		4.7	1.6	.0	.0	1.6	2.3	2.7	.0	.0	.0	.0	.0	.0	.0	4.3		
NE	.0	.0	9.4	6.6		6.9	1.6	.0	1.6	.0	2.0	3.1	1.6	.0	.0	.0	.0	.0	.0	3.1	3.1	
E	.0	.0	4.7	.0		3.6	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	
SE	.0	.0	1.6	1.6		4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	1.6	
S	.0	.0	1.2	1.2		3.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	
SW	6.3	3.1	2.3	.8		3.2	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.3	
W	9.8	8.6	12.1	9.5		4.2	.0	.0	.0	3.9	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	25.4	
NW	1.2	.0	3.9	2.0		3.9	.0	.0	.0	2.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	
VAR	.0	.0	.0	.0		.7	.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	.0	.0	.0	.0	.0	
TOT OBS	12	11	27	14	64	9.0	2	0	1	1	11	7	1	0	0	0	0	0	0	3	38	
TOT PCT	18.8	17.2	42.2	21.9	100.0		3.1	.0	1.6	1.6	17.2	10.9	1.4	.0	.0	.0	.0	.0	.0	4.7	59.4	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.6	.0	.0	1.6	2.3	2.7	.0	.0	.0	.0	.0	4.3
NE	1.6	.0	1.6	.0	2.0	3.1	1.6	.0	.0	.0	.0	3.1
E	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	3.1
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6
S	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	3.9
SW	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	11.3
W	.0	.0	.0	.0	3.9	4.7	.0	.0	.0	.0	.0	25.4
NW	.0	.0	.0	.0	2.0	.4	.0	.0	.0	.0	.0	4.7
VAR	.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
TOT OBS	2	0	1	1	11	7	1	0	0	0	3	38
TOT PCT	3.1	.0	1.6	1.6	17.2	10.9	1.4	.0	.0	.0	4.7	59.4

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>8	>2	>1	>1/2	>1/4	>50YD	>0
>8000	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
>6000	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
>4000	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
>2000	12.2	16.9	16.9	16.9	16.9	16.9	16.9	16.9
>1000	24.6	33.8	35.4	35.4	35.4	35.4	35.4	35.4
>600	26.2	33.4	36.9	36.9	36.9	36.9	36.9	36.9
>300	27.7	36.9	38.5	38.5	38.5	38.5	38.5	38.5
>150	27.7	36.9	38.5	38.5	38.5	38.5	38.5	38.5
>0	27.7	36.9	40.0	40.0	40.0	41.5	41.5	41.5
TOTAL	18	24	26	26	26	27	27	27

TOTAL NUMBER OF OBS: 65 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
	6.1	10.6	16.7	13.6	12.1	9.1	9.1	10.6	10.6	1.5	66

DECEMBER

PERIOD: (PRIMARY) 1956-1973
(COVER-ALL) 1937-1973

AREA 0016 MAGELLAN STRAIT EAST
51.0S 66.5W

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
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
	TOT %	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	1.2	.0	.0	.0	.0	.0	1.2	.0	.0	.0	2.4	
	NO PCP	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
	TOT %	1.2	1.2	.0	.0	.0	.0	1.2	.0	.0	.0	3.6	
5<10	PCP	1.2	2.4	.0	.0	.0	.0	1.8	3.0	.0	.0	8.4	
	NO PCP	8.4	3.0	2.4	.0	.0	.0	3.0	1.2	.0	.0	17.9	
	TOT %	9.6	5.4	2.4	.0	.0	.0	4.8	4.2	.0	.0	26.3	
10+	PCP	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
	NO PCP	8.0	8.8	3.8	2.4	4.8	9.9	25.0	6.0	.0	.0	67.9	
	TOT %	8.0	10.0	3.8	2.4	4.8	9.9	25.0	6.0	.0	.0	69.1	
TOT OBS												64	
TOT PCT		19.9	16.4	6.0	2.4	4.8	9.9	31.0	10.1	.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
<1/2	0-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
	TOT %	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
1/2<1	0-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	2.4	
	22+	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	1.2	
	TOT %	1.2	1.2	.0	.0	.0	.0	1.2	.0	.0	.0	3.6	
5<10	0-5	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
	4-10	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	2.4	
	11-21	8.4	3.0	1.2	.0	.0	.0	2.4	3.0	.0	.0	17.9	
	22+	.0	.0	.0	.0	.0	.0	2.4	1.2	.0	.0	3.6	
	TOT %	9.6	5.4	2.4	.0	.0	.0	4.8	4.2	.0	.0	26.2	
10+	0-5	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	2.4	
	4-10	3.8	.0	2.4	2.4	.0	2.4	6.8	1.2	.0	.0	16.7	
	11-21	4.8	7.4	1.2	.0	3.9	6.3	10.4	4.8	.0	.0	38.1	
	22+	.0	2.4	.0	.0	.0	.0	7.7	.0	.0	.0	11.9	
	TOT %	8.0	9.8	3.6	2.4	4.8	9.3	29.0	6.0	.0	.0	69.0	
TOT OBS												64	
TOT PCT		19.9	16.4	6.0	2.4	4.8	9.9	31.0	10.1	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1954-1973
(OVER-ALL) 1932-1973

AREA 0016 MAGELLAN STRAIT EAST
51.6S 64.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND OCCURRENCE OF NM <3/8 BY HOUR

HR	000	150	300	600	1000	2000	3000	5000	6000	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
(GMT)	149	299	399	499	1099	1499	1999	2499	2999	3999			
0000Z	3.6	.0	3.6	.0	11.3	3.6	.0	.0	.0	3.6	26.9	73.1	26
0600Z	.0	.0	.0	.0	37.3	18.8	.0	.0	.0	.0	36.2	43.8	16
1200Z	11.1	.0	.0	11.1	.0	11.1	.0	.0	.0	11.1	44.4	59.6	9
1800Z	.0	.0	.0	.0	20.0	13.3	6.7	.0	.0	6.7	46.7	53.3	13
TOT	2	0	1	1	12	7	1	0	0	3	27	59	66
PCT	3.0	.0	1.5	1.5	18.2	10.6	1.5	.0	.0	4.5	40.2	59.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL
(GMT)							OBS
0000Z	.0	.0	.0	3.1	28.1	67.8	32
0600Z	.0	.0	.0	5.3	26.3	68.4	19
1200Z	6.3	.0	.0	6.3	14.8	68.8	16
1800Z	.0	.0	.0	.0	33.3	66.7	18
TOT	1	0	0	3	23	58	85
PCT	1.2	.0	.0	3.3	27.1	68.2	100.0

TABLE 12

CUMULATIVE PCT PROB OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NM >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NM <3/8 AND 3+	TOTAL
(GMT)	<50VD	<1	<3	AND 3+	AND 3+	OBS
0000Z	4.0	8.0	8.0	20.0	73.0	25
0600Z	.0	.0	6.3	36.0	43.8	16
1200Z	11.1	11.1	22.2	22.2	59.6	9
1800Z	.0	.0	.0	44.7	53.3	13
TOT	2	3	3	22	58	65
PCT	3.1	4.6	7.7	33.8	58.3	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	PCT
									OBS	FREQ
59/59	.0	.0	1.3	.0	2.7	.0	6.7	1.3	9	12.0
50/54	.0	.0	.0	.0	6.0	13.3	13.3	10.7	36	43.3
45/49	.0	.0	.0	1.3	3.7	8.0	18.0	13.3	51	41.3
30/44	.0	.0	.0	.0	.0	1.3	.0	.0	1	1.3
TOTAL	0	0	1	1	10	27	27	19	75	100.0
PCT	.0	.0	1.3	1.3	13.3	22.7	36.0	23.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
59/59	2.3	2.7	.0	.0	1.3	1.3	2.0	2.3	.0	.0
50/54	9.7	9.7	2.7	2.7	2.3	3.0	11.0	6.3	.0	.0
45/49	9.7	4.7	2.7	.0	4.0	4.3	16.3	3.7	.0	.0
30/44	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0
TOTAL	17.7	17.0	3.3	2.7	7.7	10.0	29.3	10.3	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
0000Z	59	58	56	50	46	43	43	50.6	34
0600Z	57	56	53	48	43	44	44	48.7	21
1200Z	57	56	54	50	46	46	46	50.5	18
1800Z	56	55	53	52	46	46	46	52.0	21
TOT	59	57	56	51	43	44	44	50.5	94

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
0000Z	.0	6.9	13.8	27.6	31.0	20.7	79		29	
0600Z	.0	.0	10.5	10.5	47.4	31.6	85		19	
1200Z	.0	.0	9.1	27.3	18.2	43.5	84		11	
1800Z	.0	.0	17.6	23.5	47.1	11.8	79		17	
TOT	0	2	10	17	28	19	81		76	

DECEMBER

PERIOD: (PRIMARY) 1 56-1973
(OVER-ALL) 1937-1973

AREA 0016 MACELLAN STRAIT EAST
31.05 66.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THP OCCURRENCE OF FOG (WITH/OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	TOT	W FGG	WO FGG
11/13	.0	.0	.0	2.4	.0	2	.0	2.4
9/10	.0	.0	.0	1.7	.0	1	.0	1.2
7/8	.0	.0	1.2	6.1	2.4	8	.0	9.8
6	.0	.0	1.2	.0	.0	1	.0	1.2
5	.0	.0	2.4	9.7	.0	5	.0	6.1
4	.0	1.7	7.3	1.7	.0	8	.0	9.8
3	.0	.0	7.3	6.1	.0	11	.0	13.4
2	.0	2.4	4.9	4.9	.0	10	.0	12.2
1	.0	8.5	2.4	.0	.0	9	1.2	9.8
0	.0	7.3	9.7	2.4	.0	11	1.2	12.2
-1	1.2	4.9	1.2	.0	.0	6	1.2	6.1
-2	.0	8.5	.0	.0	.0	7	.0	8.5
-3	.0	1.2	.0	.0	.0	1	.0	1.2
-4	.0	.0	1.2	.0	.0	1	.0	1.2
-5	.0	1.2	.0	.0	.0	1	.0	1.2
TOTAL	1	20	23	2	2	82	3	79
PCT	1.2	39.4	32.9	28.0	2.4	100.0	3.7	96.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N					PCT	NE					PCT
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
1-2	.0	3.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0
3-4	.0	3.0	11.4	.0	.0	14.4	.0	.0	.0	.0	.0	.0
5-6	.0	.0	2.3	.0	.0	2.3	.0	.0	6.1	.0	.0	.0
7	.0	.0	.0	3.0	.0	3.0	.0	.0	3.0	.0	.0	.0
8-9	.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
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.1	13.6	3.0	.0	22.7	.0	.0	9.1	.0	.0	9.1

HGT	E					PCT	SE					PCT
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
1-2	.0	.0	3.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0
3-4	.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
7	.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
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	6.1	.0	.0	9.1	.0	.0	.0	.0	.0	.0

ANNUAL

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1921-1973

AREA 0016 MAGELLAN STRAIT EAST
51.35 66.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG WEA
N	2.4	1.1	3.2	.0	.0	.0	.0	7.8	.3	.0	9.8	.0	.2	.0	81.8
NE	7.1	1.8	4.3	.0	.0	.0	.0	13.4	3.0	.0	6.7	.0	.0	.0	74.9
E	5.7	1.9	7.5	.0	.0	.0	.0	15.1	.0	.0	11.9	.0	.0	.0	64.7
SE	8.3	.0	4.1	.0	.0	.0	.0	12.3	.3	.0	5.1	.0	.0	1.3	81.0
S	4.1	1.3	.7	.0	.4	.0	.0	6.0	3.1	.0	2.0	.0	.0	.0	88.8
SW	2.2	1.8	.9	.0	1.0	.0	.0	3.0	.8	.0	4.7	.0	.1	.0	86.5
W	1.7	1.1	1.0	.0	.0	.0	.0	3.8	.7	.3	6.1	.1	.1	.0	89.5
NW	4.8	1.3	1.2	.0	.0	.0	.0	7.4	.1	1.3	3.2	.1	.4	.0	83.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9	3.7	7.6	.0	.0	.0	.0	6.3	.0	.0	.0	.0	.0	.0	52.0
TOT PCT	3.3	1.6	2.0	.0	.2	.0	.0	7.0	.9	.2	6.7	.1	.2	.0	85.1
TOT OBS:	1463														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG WEA
0000	3.7	2.2	2.2	.0	.7	.0	.0	8.6	.6	.3	3.8	.0	.3	.1	84.6
0800	3.3	1.2	2.3	.0	.0	.0	.0	7.0	.3	.1	7.3	.0	.0	.0	83.0
1200	3.2	1.0	2.3	.0	.0	.0	.0	6.7	.6	.0	9.3	.3	.1	.0	82.8
1800	7.7	1.7	.7	.0	.0	.0	.0	4.8	2.1	.0	4.3	.0	.2	.0	86.7
TOT PCT	3.3	1.6	2.0	.0	.2	.0	.0	6.9	.9	.2	6.8	.1	.2	.0	85.1
TOT OBS:	1500														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.3	6.8	8.7	1.7	.6	.0	18.3	13.7	13.3	16.2	19.4	21.7	21.0	23.7	16.4	19.1
NE	.3	2.0	3.1	.6	.0	.0	6.2	13.4	9.3	11.7	5.3	6.4	4.3	4.3	6.3	10.0
E	.0	1.3	1.4	.4	.0	.0	3.1	11.0	2.7	3.8	3.1	3.7	1.2	6.9	2.3	4.3
SE	.1	1.3	.7	.7	.0	.0	3.0	12.3	1.8	1.7	2.2	2.6	4.6	4.9	4.0	1.8
S	.3	2.2	3.7	1.1	.4	.0	6.6	14.9	7.4	3.6	6.3	6.7	6.8	2.3	10.8	2.2
SW	.1	4.4	8.3	4.3	1.1	.0	18.8	17.3	23.7	13.8	10.3	12.3	18.2	18.6	13.3	14.1
W	.8	6.3	17.3	6.6	1.3	.0	27.2	17.0	26.6	26.1	27.9	26.4	27.7	24.0	29.4	26.3
NW	.6	3.3	6.7	1.7	.7	.0	13.2	14.4	16.9	19.4	13.2	18.2	14.3	12.9	10.3	20.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	.7	1.7	3.0	1.9	1.9	2.0	.9	1.6
TOT OBS							1632	13.3	323	137	222	182	310	120	230	128
TOT PCT	4.8	30.1	44.2	18.8	4.1	.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 4A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40				00	03	06	09	12	15	18	21
N	2.7	9.9	4.6	1.2	.0	18.3	13.7	16.0	19.8	21.3	17.3		
NE	.6	3.3	1.9	.2	.0	6.2	13.4	6.3	9.2	4.6	7.3		
E	.3	1.8	.8	.0	.0	3.1	11.0	3.2	4.0	2.6	3.0		
SE	.4	1.6	.8	.1	.0	3.0	12.3	1.9	2.3	4.8	3.3		
S	1.4	2.6	1.7	.7	.1	6.6	14.9	6.9	6.1	3.4	7.8		
SW	2.6	7.9	3.7	2.3	.4	18.8	17.3	20.8	17.2	18.6	17.7		
W	3.3	10.6	9.7	3.3	.1	27.2	17.0	26.7	27.2	26.8	28.8		
NW	2.4	7.6	4.0	1.2	.0	13.2	14.4	17.4	15.0	13.9	13.3		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.3					1.3	.0	.7	1.9	1.9	1.2		
TOT OBS						1632	13.3	460	384	430	358		
TOT PCT	13.3	48.3	29.1	9.4	.6	100.0	100.0	100.0	100.0	100.0	100.0		

ANNUAL

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1921-1973

AREA 0016 MAGELLAN STRAIT EAST
51.55 66.04

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	.7	4.2	24.9	51.7	14.9	3.2	.3	15.3	100.0	480
0600Z	1.9	4.7	35.3	39.2	15.4	3.2	.0	14.4	100.0	384
1200Z	1.9	1.9	31.6	40.4	18.3	5.6	.0	19.8	100.0	430
1800Z	1.2	2.0	28.8	44.8	18.4	4.9	.0	19.8	100.0	358
TOT								19.3		1632
PCT	1.5	3.3	30.1	44.2	16.8	4.1	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCO	TOTAL OBS	MEAN CLOUD COVER
NE	.2	.4	2.8	2.7		9.3
E	.1	.1	.8	1.1		4.7
SE	.2	.0	1.2	2.1		6.0
S	1.6	1.0	2.8	2.4		3.2
SW	6.7	4.7	6.8	3.4		4.1
W	9.0	3.2	9.6	3.3		4.0
NW	4.3	1.8	3.9	3.2		4.3
VAR	.0	.0	.0	.0		2.0
CALM	.3	.1	.6	.3		2.9
TOT OBS					849	4.8
TOT PCT	26.2	14.7	35.1	24.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	CEILING HEIGHTS (FT, NH >4/8)										NH <5/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+		
N	.7	.3	.3	1.0	2.9	1.3	.9	.4	.1	.5	9.2	
NE	.1	.1	.2	.8	1.4	.9	.2	.1	.1	.3	1.9	
E	.0	.0	.0	.0	.9	.3	.2	.0	.0	.0	.6	
SE	.0	.0	.0	.7	.5	.4	.2	.0	.0	.1	1.0	
S	.1	.0	.2	.8	1.1	.8	.7	.2	.0	.1	4.1	
SW	.0	.2	.0	.9	2.2	1.3	.9	.4	.2	.1	15.3	
W	.1	.0	.3	.6	2.8	1.4	.9	.2	.1	.3	20.0	
NW	.2	.1	.0	.8	1.8	.6	.7	.1	.2	.1	8.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.0	.1	.3	.9	.0	.0	.0	.4	
TOT OBS											849	
TOT PCT	1.0	.7	1.2	5.3	13.7	7.6	5.2	1.7	.8	1.8	60.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>3	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.9	2.6	2.7	2.7	2.7	2.7	2.7	2.7
>5000	3.0	4.0	4.3	4.3	4.3	4.3	4.3	4.3
>3500	7.0	8.9	9.4	9.4	9.4	9.4	9.4	9.4
>2000	11.4	15.9	16.8	16.8	16.8	16.8	16.8	16.8
>1000	20.6	29.4	30.7	30.9	30.9	30.9	30.9	30.9
>600	34.3	34.5	35.9	36.1	36.2	36.2	36.2	36.2
>300	33.1	35.7	37.1	37.3	37.4	37.4	37.4	37.4
>150	33.1	35.7	37.8	38.0	38.1	38.1	38.1	38.1
>0	33.3	36.0	38.3	38.3	38.6	38.9	39.0	39.0

TOTAL NUMBER OF OBS: 849

PCT FREQ NH <5/8: 61.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCO	TOTAL OBS
14.2	13.6	13.8	9.4	6.8	6.6	6.6	7.4	17.1	.7	919

PERIOD: (PRIMARY) 1970-1973
(OVER-ALL) 1921-1973

ANNUAL

AREA 0016 MAGELLAN STRAIT EAST
51.95 66.0W

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	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.7	
	TOT %	.4	.1	.1	.1	.1	.1	.1	.1	.1	.1	.8	
1/2<1	PCP	.1	.1	.2	.1	.1	.0	.0	.0	.0	.0	.5	
	NO PCP	.5	.1	.1	.0	.1	.0	.1	.2	.0	.0	1.1	
	TOT %	.6	.3	.2	.1	.1	.0	.1	.2	.0	.0	1.6	
1<2	PCP	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.2	
	NO PCP	.1	.1	.1	.1	.1	.1	.2	.3	.0	.0	.6	
	TOT %	.1	.1	.1	.1	.1	.1	.3	.3	.0	.0	.8	
2<5	PCP	.1	.0	.1	.1	.0	.2	.3	.1	.0	.0	.7	
	NO PCP	.4	.2	.1	.1	.2	.5	.4	.7	.0	.1	2.1	
	TOT %	.5	.2	.1	.1	.2	.6	.7	.3	.0	.1	2.8	
5<10	PCP	.7	.4	.4	.2	.3	.4	.5	.5	.0	.2	3.4	
	NO PCP	4.8	2.3	1.1	1.2	1.9	3.5	7.8	4.9	.0	.4	29.9	
	TOT %	7.5	2.6	1.5	1.5	2.2	3.9	8.4	5.4	.0	.6	33.4	
10+	PCP	.4	.3	.1	.1	.2	.4	.1	.4	.0	.0	1.7	
	NO PCP	9.1	2.8	.8	1.5	4.0	13.9	17.4	8.6	.0	.7	58.8	
	TOT %	9.5	3.1	.9	1.5	4.1	14.3	17.4	9.0	.0	.7	60.5	
TOT OBS													1454
TOT PCT		18.4	6.3	2.8	3.2	6.7	18.9	27.0	19.2	.0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (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	.0	.1	
	4-10	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	
	11-21	.1	.1	.1	.0	.0	.0	.1	.1	.0	.0	.3	
	22+	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.5	.2	.1	.0	.0	.0	.2	.1	.0	.0	.9	
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.3	.2	.1	.1	.1	.1	.2	.1	.0	.0	1.0	
	11-21	.1	.1	.1	.1	.1	.0	.0	.1	.0	.0	.3	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.5	.2	.2	.1	.1	.1	.0	.2	.1	.0	1.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	4-10	.0	.0	.0	.0	.1	.1	.1	.1	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.1	.3	.3	.0	.0	.8	
2<5	0-3	.1	.0	.0	.0	.1	.1	.1	.1	.0	.1	.4	
	4-10	.2	.1	.0	.1	.1	.2	.1	.1	.0	.0	.8	
	11-21	.5	.2	.1	.1	.1	.2	.4	.2	.0	.0	1.3	
	22+	.1	.0	.1	.1	.1	.1	.1	.1	.0	.0	.6	
	TOT %	.9	.3	.1	.1	.2	.6	.7	.3	.0	.1	3.3	
5<10	0-3	.1	.2	.0	.1	.1	.1	.0	.0	.0	.6	1.2	
	4-10	2.8	.8	.6	.6	.7	.6	2.1	1.9	.0	.0	10.0	
	11-21	3.3	1.4	.8	.3	.7	1.9	3.7	2.6	.0	.0	14.9	
	22+	1.0	.2	.1	.5	.7	1.3	2.0	.9	.0	.0	7.2	
	TOT %	7.4	2.6	1.4	1.5	2.1	3.9	8.4	5.4	.0	.6	33.3	
10+	0-3	.2	.3	.0	.0	.2	.3	.6	.1	.0	.7	2.4	
	4-10	3.3	.8	.6	.9	1.3	3.1	3.4	3.1	.0	.0	16.5	
	11-21	4.8	1.5	.2	.4	2.1	6.8	8.0	4.0	.0	.0	27.8	
	22+	1.2	.4	.1	.2	.6	4.2	5.3	1.7	.0	.0	13.7	
	TOT %	9.3	3.0	.9	1.5	4.1	14.3	17.4	8.9	.0	.7	40.2	
TOT OBS													1467
TOT PCT		18.5	6.3	2.8	3.2	6.7	18.9	27.1	19.2	.0	1.4	100.0	

ANNUAL
 PERIOD: (PRIMARY) 1929-1973
 (OVER-ALL) 1921-1973

AREA 0016 MAGELLAN STRAIT EAST
 51.55 66.04

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	1.2	.9	.5	5.2	12.1	6.0	5.6	1.8	.6	2.0	35.8	64.2	298
0600	1.1	.2	2.2	2.9	16.7	8.8	2.6	1.4	1.6	2.6	39.9	60.1	208
1200	1.9	.0	1.6	10.8	12.0	5.3	7.3	2.1	.6	.9	42.6	57.4	221
1800	.0	1.4	.2	2.9	14.6	5.3	3.6	.8	.4	2.2	35.5	64.5	229
TOT													890
PCT	.9	.6	1.2	5.2	13.8	7.3	5.0	1.6	.8	1.9	38.2	61.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	1.0	1.5	1.4	4.9	31.9	59.3	439
0600	.3	2.2	.7	3.6	36.8	56.3	333
1200	1.1	1.8	.6	2.7	35.9	57.9	391
1800	1.7	.8	.0	2.4	27.1	68.1	318
TOT							1501
PCT	1.0	1.5	.8	3.3	33.0	60.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8 AND 5+	TOTAL OBS
0000	1.2	2.7	9.6	26.9	63.5	298
0600	1.1	3.6	7.9	33.1	59.0	198
1200	2.0	3.6	16.4	26.8	56.8	216
1800	.0	2.5	5.7	30.7	63.5	218
TOT						885
PCT	1.0	3.1	9.7	29.4	60.8	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	.1	.8	.7	.1	.1	.5	
55/59	.0	.1	.3	.4	1.0	1.0	1.8	.4	3.0	
50/54	.0	.0	.1	.8	4.7	5.4	7.2	2.6	20.8	
45/49	.0	.0	.1	1.9	4.7	10.8	13.9	8.1	35.9	
40/44	.0	.0	.0	.6	2.9	7.0	7.8	9.4	27.3	
35/39	.0	.1	.0	.3	.9	1.6	1.7	2.7	7.3	
30/34	.0	.0	.0	.0	.0	.0	.0	.2	.2	
TOTAL									1398	100.0
PCT	.0	.2	.3	3.9	13.8	26.0	32.4	23.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.0	.1	.1	.1	.0	.0
.8	.5	.0	.0	.2	1.0	1.3	1.1	.0	.1
4.2	1.4	.4	.7	.9	3.6	6.5	2.7	.0	.3
7.9	1.7	1.6	.8	2.5	6.5	10.6	6.8	.0	.7
5.1	1.6	.9	.9	1.2	3.3	8.4	4.0	.0	.3
.2	.2	.2	.2	1.5	2.2	2.3	.5	.0	.0
.0	.0	.0	.0	.0	.0	.1	.1	.0	.0
18.2	5.5	2.7	2.6	6.3	18.7	29.3	15.3	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	60	53	52	46	41	39	34	47.4	480
0600	59	51	50	43	41	39	34	46.6	404
1200	62	53	52	46	41	39	31	47.1	452
1800	62	54	52	47	42	40	31	48.6	373
TOT	62	55	52	46	41	38	31	47.4	1709

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	4.5	14.9	22.9	33.8	23.8	80	410		
0600	.0	1.5	11.2	22.4	37.6	27.3	82	340		
1200	.2	3.3	12.6	27.4	30.1	26.4	80	367		
1800	.0	7.3	14.8	30.8	27.9	18.2	77	312		
TOT	.1	6.3	21.0	36.7	48.1	30.7	80	1429		

ANNUAL

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1921-1973

AREA 0016 MAGELLAN STRAIT EAST
51.55 66.0W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND TMP OCCURRENCE OF FOG (WITHOUT PRECIPITATION):
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	43 48	49 52	53 56	57 60	61 64	TOT	W FOG	WD FNG
14/16	.0	.0	.0	.0	.0	.0	.1	.0	.0	2	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.2	.1	.0	5	.0	.4
9/10	.0	.0	.0	.0	.0	.2	.5	.2	.1	13	.0	1.0
7/8	.0	.0	.0	.0	.3	.6	1.3	.7	.0	46	.0	2.9
6	.0	.0	.0	.0	.5	.6	.9	.3	.0	34	.0	2.3
5	.0	.0	.0	.0	.3	.9	1.1	1.1	.2	55	.0	3.6
4	.0	.0	.0	1.2	1.5	2.5	1.0	.2	.0	91	.3	6.1
3	.0	.0	.0	1.3	3.0	3.6	1.7	.1	.0	134	.5	9.9
2	.0	.0	.2	2.0	2.8	2.7	1.3	.1	.0	143	.7	8.3
1	.0	.0	.1	3.3	3.1	3.3	.2	.1	.0	180	1.3	10.8
0	.0	.0	.6	4.5	6.4	2.5	.7	.0	.0	204	1.2	13.6
-1	.0	.2	1.1	4.0	3.8	1.7	.2	.0	.0	148	.8	10.1
-2	.0	.0	1.4	3.8	3.0	.8	.1	.0	.0	119	.8	8.3
-3	.0	.0	1.3	1.1	1.7	.3	.0	.0	.0	71	.1	4.6
-4	.0	.2	1.8	1.1	.8	.5	.0	.0	.0	60	.7	3.7
-5	.0	.1	1.6	.9	.6	.1	.0	.0	.0	42	.1	3.1
-6	.0	.4	1.1	.2	.2	.0	.0	.0	.0	23	.0	1.9
-7/-9	.0	.4	.4	.4	.2	.0	.0	.0	.0	19	.0	1.3
-8/-10	.2	.3	.2	.1	.0	.0	.0	.0	.0	9	.2	.6
-11/-13	.0	.3	.1	.0	.1	.0	.0	.0	.0	5	.0	.3
TOTAL										1423		
PCT	.2	2.0	10.0	24.1	31.3	20.7	9.3	2.1	.1	100.0	6.6	93.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N					PCT	NE					PCT
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.1	2.2	.4	.0	.0	2.7	.2	.1	.0	.0	.0	.3
1-2	.0	4.0	1.8	.0	.0	5.8	.0	.7	.0	.0	.0	.7
3-4	.0	2.2	9.2	.2	.0	7.6	.0	.6	.9	.0	.0	1.5
4-6	.0	.2	1.9	.3	.0	2.9	.0	.0	.3	.4	.0	.7
7	.0	.0	.6	.3	.0	1.1	.0	.0	.4	.3	.0	.7
8-9	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.7	.7	.8	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	8.6	10.3	1.8	.4	21.4	.2	.9	2.4	.8	.0	4.1

HGT	E					PCT	SE					PCT
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.0	.6	.3	.0	.0	.8	.0	.0	.3	.0	.0	.3
1-2	.0	.7	.3	.0	.0	1.2	.0	.5	.0	.0	.0	.5
3-4	.0	.0	.3	.0	.0	.3	.0	.0	.3	.0	.0	.3
5-6	.0	.0	.3	.0	.0	.3	.0	.0	.1	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	1.4	.0	.0	2.6	.0	.3	.8	.4	.0	1.8

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1921-1973

AREA 0016 MAGELLAN STRAIT EAST
51.93 66.7W

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	.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	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
55/56	9.9	2.6	1.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	28	1.5
53/54	10.1	3.6	3.9	2.6	.0	.0	.0	.0	.0	.0	2.0	1.6	60	3.2
51/52	19	14.3	14.1	4.2	1.9	.0	.0	.0	.0	.0	2.0	13.7	138	8.2
49/50	29.7	36.8	37.7	21.7	6.6	.0	.8	2.7	1.7	.0	1.8	27.4	361	19.1
47/48	25.7	36.8	34.5	49.2	20.8	10.5	.0	1.4	7.6	7.5	22.4	26.6	462	24.5
45/46	12.2	3.7	7.7	18.5	38.7	36.8	12.2	2.7	9.2	11.3	37.4	23.4	293	15.9
43/44	.4	.0	.4	2.6	19.8	35.5	40.7	33.8	12.6	44.0	26.5	5.5	254	13.4
41/42	.0	.0	.0	.5	9.4	15.2	33.3	35.1	30.5	33.3	4.8	.0	189	10.0
39/40	.0	.0	.0	.0	1.9	2.6	9.8	18.9	20.2	7.8	.0	.0	68	3.4
37/38	.0	.0	.0	.0	.9	.0	3.3	5.4	9.2	.0	.0	.0	20	1.1
35/36	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	1	.1
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
15	.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
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	237	269	284	189	106	76	123	74	119	141	147	124	1889	100.0
MEAN	49.6	49.2	49.0	47.7	45.3	44.1	42.5	41.9	41.9	42.8	43.6	47.9	45.6	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	999	996	1000	999	1001	999	1001	998	999	231
FEB	998	997	999	998	1000	999	998	998	996	145
MAR	1001	1004	1003	1003	1003	1006	1002	1002	1003	256
APR	1007	1008	1006	1007	1009	1008	1003	1008	1006	166
MAY	1003	1012	1003	1007	1002	1008	1001	1007	1004	93
JUN	1007	1007	1008	1004	1000	1000	1006	1001	1004	80
JUL	1003	1004	1005	1004	1007	1001	1002	1001	1003	190
AUG	1002	1007	1007	1001	997	1008	1002	1013	1003	78
SEP	1009	1008	1005	1004	1003	1012	1010	1012	1008	92
OCT	1002	1001	1000	1003	1004	1003	1003	1001	1002	126
NOV	1005	997	1001	1004	1003	1005	1001	1003	1003	97
DEC	1000	993	1000	1010	996	1001	998	995	999	92
ANN	1003	1003	1003	1004	1001	1004	1002	1003	1002	1426
CS	325	138	221	163	308	118	223	128		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	977	977	984	994	999	1006	1014	1020	1023
FEB	980	981	985	993	998	1004	1012	1016	1018
MAR	984	985	987	997	1003	1008	1018	1025	1029
APR	985	985	991	1000	1006	1014	1019	1027	1029
MAY	979	979	986	997	1005	1012	1021	1028	1030
JUN	982	982	988	997	1004	1011	1018	1030	1031
JUL	974	982	984	997	1003	1007	1020	1028	1030
AUG	974	974	979	995	1005	1013	1019	1022	1023
SEP	975	975	984	997	1008	1016	1030	1030	1031
OCT	977	978	985	993	1003	1012	1019	1027	1028
NOV	977	977	984	993	1007	1009	1023	1023	1025
DEC	979	979	983	990	1000	1007	1015	1018	1021

Unclassified

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) Summary of Synoptic Meteorological Observations (SSMO) South America and Selected Island Coastal Marine Areas - Volume 2		5. TYPE OF REPORT & PERIOD COVERED Reference publication
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s) Naval Weather Service Detachment, Asheville, NC		8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS National Climatic Center Federal Building Asheville, N.C. 28801		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS Director Naval Oceanography and Meteorology National Space Technology Laboratories Bay St. Louis, MS 39520		12. REPORT DATE June 1977
		13. NUMBER OF PAGES 632
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		15. SECURITY CLASS. (of this report)
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Marine Climatology, Coastal Marine Summary, Tables, South America East Coast, Rio De Janeiro, Florianopolis, Porto Alegre, BuenosAires, Bahia Blanca, Rawson, Puerto Deseado, Magellan Strait East		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report presents marine climatological data for specific coastal areas in 21 different tables including weather occurrence, wind direction and speed, cloud amount, ceiling height, visibility, precipitation, dry bulb relative humidity, air-sea temperature difference, sea height and period, sea surface temperature and sea level pressure.		

Volume Area	Name	Approximate Central Location
1	Georgetown	02.5°N 57.5°W
2	Cayenne	05.5°N 52.2°W
3	Amazon Delta	01.3°N 47.3°W
4	Fortaleza NH	01.1°S 41.1°W
5	Natal	04.2°S 34.5°W
6	Recife	09.3°S 33.7°W
7	Salvador	14.4°S 36.5°W
8	Victoria NE	19.0°S 37.5°W
9	Rio de Janeiro	23.2°S 40.8°W
10	Florianopolis	27.0°S 49.1°W
11	Porto Alegre	31.0°S 48.7°W
12	Buenos Aires	35.3°S 58.3°W
13	Bahia Blanca	40.0°S 63.2°W
14	Rosson	44.1°S 62.4°W
15	Puerto Deseado	48.0°S 64.0°W
15	Magellan Strait East	51.5°S 65.0°W
17	Tierra Del Fuego	50.0°S 66.0°W
18	Falkland Islands	51.5°S 58.9°W
19	South Georgia	54.6°S 37.0°W
20	Tristan da Cunha G rup	39.0°S 10.4°W
21	Trinidad	20.3°N 79.0°W
22	St. Helena	15.6°S 15.5°W
23	Ascension	07.5°S 14.5°W
24	St. Peter and Paul Rocks	01.0°N 29.6°W